ASD-CERT
s Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 318** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Alcoa Fastening Systems Toulouse Operations
Boulevard du Grand Castaing
31128 Portet sur Garonne
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2927-050 | Reports: N° 329 for_ALCOA_ACP005<br>Form2– Issue 1_2015-04<br>Philip EDWARDS, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

22/10/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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10 rue Montoyer
1000 Brussels
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 319**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA Fastening Systems
3000 W. Lomita Blvd
Torrance, CA 90505
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3297 | EN 3236-060<br>and by analogy<br>EN 3237-060 | Report: N°361-2<br>for_ALCOA_ACP005 Form2–<br>2015/07/02<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 20/10/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

10 rue Montoyer
1000 Brussels
BELGIUM

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 320** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | ALCOA Fastening Systems<br>3000 W. Lomita Blvd<br>Torrance, CA 90505<br>USA |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3297 | EN 3236-100<br>and by analogy<br>EN 3237-100 | Report: N°361-3<br>for_ALCOA_ACP005 Form2–2015/07/02<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 20/10/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

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1000 Brussels
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 321**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA Fastening Systems
Crossgate Road, Park Farm,
Redditch, Worcestershire B98 7TD
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN4499-060 | Report: N°363 for_ALCOA_ACP005 Form2– 2015/07/01<br>Piero Visconti - Alenia Aermacchi S.p.A. |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 20/10/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 317** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Alcoa Fastening Systems Toulouse Operations
Boulevard du Grand Castaing
31128 Portet sur Garonne
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No:<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9154 | EN2874-050 and EN2874H050 limited to length codes up to 009 only | Reports: N° 297 for_ALCOA_ACP005 Form2– Issue 1_2014-10-13<br>Michel Capblancq - Turbomeca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

22/10/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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1000 Brussels
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Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 316** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

CONESYS
548 Ampola Avenue
Torrance, CA 90501
UNITED STATES

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-014, -015 & -016 Classes S & K | Reports: N° 207 for_CONESYS_ACP005 Form2– Issue 1_2014-01-20<br>Christian Mazelle - SNECMA |

**This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis**

**November 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

22/10/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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1000 Brussels
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Tel. +32 2 775 8126
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 315** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-003, -008, -009, -014 & -015<br>See the Appendix for the Qualified part number list | Report: N°257 for_Deutsch_ACP005 Form2– Issue 1_2015/05/07<br>Trevor Williams - QINETIQ |

**This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis**

**OCTOBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

08/10/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 1 CONTACTS, MALE, TYPE A, CRIMP, CLASS S EN3155-003

| EN3155-003 | DEUTSCH |
|---|---|
| EN3155-003F1212 | 724-0003-12 |
| EN3155-003F2018 | 724-1064-20 |
| EN3155-003F2020 | 724-0003-20 |
| EN3155-003F2222 | 724-0003-22 |

## 2 CONTACTS, FEMALE, TYPE A, CRIMP, CLASS S EN3155-008

| EN3155-008 | DEUTSCH |
|---|---|
| EN3155-008M2020 | 724-0001-20 |

## 3 CONTACTS, MALE, TYPE A, CRIMP, CLASS S EN3155-009

| EN3155-009 | DEUTSCH |
|---|---|
| EN3155-009F2020 | 724-0007-20 |

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## 4 CONTACTS, MALE, TYPE A, CRIMP, CLASS S EN3155-014

| EN3155-014 | DEUTSCH |
|---|---|
| EN3155-014M2018 | 182-0120-20 |

## 5 CONTACTS, MALE, TYPE A, CRIMP, CLASS S EN3155-015

| EN3155-015 | DEUTSCH |
|---|---|
| EN3155-015F2018 | 182-0118-20 |

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1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 313**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Relats SA
C. Priorat 17
Pol. Ind. La Borda
Caldes de Montbul, Barcelona
SPAIN

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN6049-003 | MBR Report N°236-1 Relats ACP005-Form 2 Date 2014-11-11<br>Steve Allwood - QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 25/09/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 310** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Alcoa Fastening Systems Toulouse Operations
Boulevard du Grand Castaing
31128 Portet sur Garonne
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN4127-050 | Report: N°298 for_ Alcoa _ACP005 Form2– Issue 1_2014/07/22<br>Michel CAPBLANCQ – TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 25/09/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 311** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Alcoa Fastening Systems Toulouse Operations
Boulevard du Grand Castaing
31128 Portet sur Garonne
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
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die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN4178-060 limited to length of 011 | Report: N°296 for_ Alcoa _ACP005 Form2– Issue 1_2014/07/25<br>Michel CAPBLANCQ – TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 25/09/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 312** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI AEROSPACE
Rue Jean Vaurs
BP298 12202 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
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| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN4178-060 | Report: N°261 for_ LISI _ACP005 Form2– Issue 2_2015/09/14<br>Michel CAPBLANCQ – TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

25/09/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 314**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 9152 | EN 3740-170 | Report: N°250 for_LISI_ACP005 Form2– 2014/10/29<br><br>Mr Michel CAPBLANCQ - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 08/10/2015
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 308** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

AMPHENOL Aerospace
40-60 Delaware avenue
13838-1395 Sidney, New York
United States

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

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die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008 & -009 Classes J & M (Composite Connectors) | Reports: N°176 for_Amphenol_ACP005 Form2– Issue 1_2015-07-01<br>Trevor Williams – QINETIQ |

**This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis**

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24/09/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 307** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

AMPHENOL Aerospace
40-60 Delaware avenue
13838-1395 Sidney, New York
United States

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008 & -009 Class K | Reports: N°176 for_Amphenol_ACP005 Form2– Issue 1_2015-02-24<br>Trevor Williams – QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24/09/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 306**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : AMPHENOL Socapex
948 Promenade de l'arve
74311 Thyes
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008 & -009 Classes F & W | Report: N°175 for_Amphenol_ACP005 Form2– Issue 1_2015/02/12<br>Trevor Williams – QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 24/09/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 305**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Relats SA
C. Priorat 17
Pol. Ind. La Borda
Caldes de Montbul, Barcelona
SPAIN

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN6049-007 | MBR Report N°236-3 Relats ACP005-Form 2 Date 2014-10-23<br>Steve Allwood - QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 17/07/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 304**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Relats SA
C. Priorat 17
Pol. Ind. La Borda
Caldes de Montbul, Barcelona
SPAIN

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN6049-006 | MBR Report N°236-2 Relats ACP005-Form 2 Date 2014-10-23<br>Stev Allwood - QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 17/07/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 303**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SOURIAU
RD 323
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-065M0808<br>EN3155-065M0810<br>EN3155-083F0808<br>EN3155-083F0810 | MBR Report N°285 ACP005-Form 2 Date 2014-12-02<br>Pierre BAENA - AIRBUS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 17/07/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 301** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : POLAMCO Ltd
Lower Bristol Road
Bath, BA2 1 EP
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3660-001 | EN3660-062 to -065 for classes W, F and K | Report: N°268 for_Polamco_ACP005 Form2– Issue 1_2015/03/09<br>Marc Belletti – AIRBUS Helicopters |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 17/07/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 300 (Old PQ 189)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Alcoa Fastening Systems<br>Viking Road, Wigston<br>Leicester, LE18 2BL<br>UNITED KINGDOM |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2582 | EN2929-050 | Report: N°353 for_ Alcoa _ACP005 Form2– Issue 1_2015 March<br>Philip Edwards – ROLLS - ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 10/04/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 299** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Johann Maier GmbH&Co.KG<br>Schockenriedstrasse 38<br>70565 Stuttgart-Vaihingen<br>GERMANY |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN 2549 | Report: N°313 for_Johann Maier_ACP005 Form2–Issue 1_2014/11/14<br>Heinrich Hackmann – Airbus Space & Defence |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 10/04/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 298** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-004 & EN3155-005 & EN3155-018<br>See the Appendix for the Qualified part number list | Report: N°286 for_Deutsch_ACP005 Form2– Issue 1_2014/07/10<br>Pierre BAENA - AIRBUS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

10/04/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 1 CONTACTS, MALE, TYPE A, CRIMP, CLASS T EN3155-004

| EN3155-004 | DEUTSCH |
|---|---|
| EN3155-004M1212 | 097-0165-12 |
| EN3155-004M1614 | 097-0177-16 |

## 2 CONTACTS, FEMALE, TYPE A, CRIMP, CLASS T EN3155-005

| EN3155-005 | DEUTSCH |
|---|---|
| EN3155-005F1212 | 097-0166-12 |
| EN3155-005F1614 | 097-0178-16 |

## 3 CONTACTS, MALE, TYPE A, CRIMP, CLASS S EN3155-018

| EN3155-018 | DEUTSCH |
|---|---|
| EN3155-018M1618 | 004-0160-16A |
| EN3155-018M1614 | 006-1102-16A |

ASD-CERT
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Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 296** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | ALCOA FASTEMING SYSTEMS MECAERO<br>BLVD du Grand Castaing<br>31128 Portet Sur Garonne<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN2870-060011 | Report: N°283 for_Alcoa_ACP005 Form2– Issue 1_2014/04/11<br>Michel Capblancq - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 12/03/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 295**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
ALCOA FASTEMING SYSTEMS MECAERO
BLVD du Grand Castaing
31128 Portet Sur Garonne
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

ASD-CERT

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO8168 | EN3038-040007 | Report: N°281 for_Alcoa_ACP005<br>Form2– Issue 1_2014/04/11<br>Michel Capblancq - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
12/03/2015

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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1000 Brussels
BELGIUM

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Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 294**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Zodiac Aerospace (Aerazur)
Zi de Vauzelles, 20 Av Georges Pompidou
37600 Loches
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN6049-007 | Report: N°237 for_Zodiac_ACP005 Form2– Issue 1_2014/04/01<br>Steve Allwood - QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 12/03/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 293** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-016<br>See the Appendix for the Qualified part number list | Report: N°164 for_Deutsch_ACP005 Form2– Issue 1_2014/07/08<br>Pierre BAENA - AIRBUS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

12/03/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 1 CONTACTS, MALE, TYPE A, CRIMP, CLASS S EN3155-016

| EN3155-016 | DEUTSCH |
|---|---|
| EN3155-016M2222 | 020-0511-22 |
| EN3155-016M2020 | 182-0908-20 |
| EN3155-016M2018 | 020-0511-20 |
| EN3155-016M1616 | 020-0511-16 |
| EN3155-016M1212 | 020-0511-12 |

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Certification of Aerospace Standard Products

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Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 292** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Deutsch India Power Connectors
104, Prestige Omega, EPIP Zone, 1st Phase
Whitefield Road
Bangalore 560066, India

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No:<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3646-001 | EN3646-003, -004 & -008 Classes A & RS, See the Appendix for the Qualified part number list | Report: N°22 for_Deutsch_ACP005 Form2– Issue 1_2014/01/29<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

12/03/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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## 1. RECEPTACLE SQUARE FLANGE EN3646-003 Class A

| EN3646 | DEUTSCH |
|---|---|
| EN3646A0083Ax* | FDBA 50-08-3A x*-K |
| EN3646A00898x* | FDBA 50-08-98 x*-K |
| EN3646A00833x* | FDBA 50-08-33 x*-K |
| EN3646A01006x* | FDBA 50-10-06 x*-K |
| EN3646A01208x* | FDBA 50-12-08 x*-K |
| EN3646A01210x* | FDBA 50-12-10 x*-K |
| EN3646A01419x* | FDBA 50-14-19 x*-K |
| EN3646A01626x* | FDBA 50-16-26 x*-K |
| EN3646A01832x* | FDBA 50-18-32 x*-K |

x = F, B or D for female contacts ; M, A or C for male contacts
* = N, W, X, Y and Z

## 2. RECEPTACLE SQUARE FLANGE EN3646-003 Class RS

| EN3646 | DEUTSCH |
|---|---|
| EN3646RS0083Ax* | FDBA 50-08-3A x*-K-A499 |
| EN3646RS00898x* | FDBA 50-08-98 x*-K-A499 |
| EN3646RS00833x* | FDBA 50-08-33 x*-K-A499 |
| EN3646RS01006x* | FDBA 50-10-06 x*-K-A499 |
| EN3646RS01208x* | FDBA 50-12-08 x*-K-A499 |
| EN3646RS01210x* | FDBA 50-12-10 x*-K-A499 |
| EN3646RS01419x* | FDBA 50-14-19 x*-K-A499 |
| EN3646RS01626x* | FDBA 50-16-26 x*-K-A499 |
| EN3646RS01832x* | FDBA 50-18-32 x*-K-A499 |

x = F, B or D for female contacts ; M, A or C for male contacts
* = N, W, X, Y and Z

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N° 0006
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### 3. JAM-NUT RECEPTACLE EN3646-004 Class A

| EN3646 | DEUTSCH |
|---|---|
| EN3646A7083Ax* | FDBA 54-08-3A x*-K |
| EN3646A70898x* | FDBA 54-08-98 x*-K |
| EN3646A70833x* | FDBA 54-08-33 x*-K |
| EN3646A71006x* | FDBA 54-10-06 x*-K |
| EN3646A71208x* | FDBA 54-12-08 x*-K |
| EN3646A71210x* | FDBA 54-12-10 x*-K |
| EN3646A71419x* | FDBA 54-14-19 x*-K |
| EN3646A71626x* | FDBA 54-16-26 x*-K |
| EN3646A71832x* | FDBA 54-18-32 x*-K |

x = F, B or D for female contacts ; M, A or C for male contacts
* = N, W, X, Y and Z

### 4. JAM-NUT RECEPTACLE EN3646-004 Class RS

| EN3646 | DEUTSCH |
|---|---|
| EN3646RS7083Ax* | FDBA 54-08-3A x*-K-A499 |
| EN3646RS70898x* | FDBA 54-08-98 x*-K-A499 |
| EN3646RS70833x* | FDBA 54-08-33 x*-K-A499 |
| EN3646RS71006x* | FDBA 54-10-06 x*-K-A499 |
| EN3646RS71208x* | FDBA 54-12-08 x*-K-A499 |
| EN3646RS71210x* | FDBA 54-12-10 x*-K-A499 |
| EN3646RS71419x* | FDBA 54-14-19 x*-K-A499 |
| EN3646RS71626x* | FDBA 54-16-26 x*-K-A499 |
| EN3646RS71832x* | FDBA 54-18-32 x*-K-A499 |

x = F, B or D for female contacts ; M, A or C for male contacts
* = N, W, X, Y and Z

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N° 0006
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**5. PLUG** **EN3646-008 Class A**

| EN3646 | DEUTSCH |
|---|---|
| EN3646A6083Ax* | FDBA 56-08-3A x*-K |
| EN3646A60898x* | FDBA 56-08-98 x*-K |
| EN3646A60833x* | FDBA 56-08-33 x*-K |
| EN3646A61006x* | FDBA 56-10-06 x*-K |
| EN3646A61208x* | FDBA 56-12-08 x*-K |
| EN3646A61210x* | FDBA 56-12-10 x*-K |
| EN3646A61419x* | FDBA 56-14-19 x*-K |
| EN3646A61626x* | FDBA 56-16-26 x*-K |
| EN3646A61832x* | FDBA 56-18-32 x*-K |

x = F, B or D for female contacts ; M, A or C for male contacts
* = N, W, X, Y and Z

**6. PLUG** **EN3646-008 Class RS**

| EN3646 | DEUTSCH |
|---|---|
| EN3646RS6083Ax* | FDBA 57-08-3A x*-K-A499 |
| EN3646RS60898x* | FDBA 57-08-98 x*-K-A499 |
| EN3646RS60833x* | FDBA 57-08-33 x*-K-A499 |
| EN3646RS61006x* | FDBA 57-10-06 x*-K-A499 |
| EN3646RS61208x* | FDBA 57-12-08 x*-K-A499 |
| EN3646RS61210x* | FDBA 57-12-10 x*-K-A499 |
| EN3646RS61419x* | FDBA 57-14-19 x*-K-A499 |
| EN3646RS61626x* | FDBA 57-16-26 x*-K-A499 |
| EN3646RS61832x* | FDBA 57-18-32 x*-K-A499 |

x = F, B or D for female contacts ; M, A or C for male contacts
* = N, W, X, Y and Z

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ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 291**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA FASTEMING SYSTEMS MECAERO
BLVD du Grand Castaing
31128 Portet Sur Garonne
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO7689 | EN4129-030 | Report: N°323 for_ALCOA_ACP005 Form2– Issue 1_2014/10/31<br>Michel Capblancq - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 19/12/2014

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 290** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FASTEMING SYSTEMS MECAERO
BLVD du Grand Castaing
31128 Portet Sur Garonne
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO7689 | EN4073-050 &<br>EN4073H08015 | Report: N°304 for_ALCOA_ACP005<br>Form2– Issue 1_2014/10/29<br>Michel Capblancq - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

15/12/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

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1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 289** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FASTEMING SYSTEMS MECAERO
BLVD du Grand Castaing
31128 Portet Sur Garonne
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN 3008-060 | Report: N°287 for_ALCOA_ACP005 Form2– Issue 1_2014/07/10<br>Michel Capblancq - TURBOMECA |

**This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis**

**December 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

15/12/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 288** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Connecteurs Electriques Deutsch<br>17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex .<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-019<br>See the Appendix for the Qualified part number list | Report: N°288 for_Deutsch_ACP005 Form2– Issue 1_2014/01/29<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 15/12/2014 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

# 1 CONTACTS, FEMALE, TYPE A, CRIMP, CLASS S

| EN3155-019 | DEUTSCH |
|---|---|
| EN3155-019F1614 | 006-1104-16A |
| EN3155-019F1618 | 004-0159-16A |

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BELGIUM

Tel. +32 2 775 8126
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 287**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex .
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-082<br>See the Appendix for the Qualified part number list | Report: N°249 for_Deutsch_ACP005 Form2– Issue 1_2014/04/29<br>Pierre BAENA - Airbus |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 15/12/2014

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# 1 CONTACTS, FEMALE, TYPE A, CRIMP, CLASS S

| EN3155-082 | DEUTSCH |
|---|---|
| EN3155-082F2222 | 724-1272-22 |

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Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 286** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Connecteurs Electriques Deutsch<br>17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-080 & -081<br>See the Appendix for the Qualified part number list | Report: N°158-2 for_Deutsch_ACP005 Form2– Issue 1_2013/05/28<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 15/12/2014 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

# 1 CONTACTS, MALE, TYPE A, CRIMP, CLASS T

| EN3155-080 | DEUTSCH |
|---|---|
| EN3155-080M2222 | 097-0299-22 |

# 2 CONTACTS, FEMALE, TYPE A, CRIMP, CLASS T

| EN3155-081 | DEUTSCH |
|---|---|
| EN3155-081F2222 | 097-0300-22 |

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ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 284**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 9152 | EN 4072-100 | Report: N°193-5 for_LISI_ACP005 Form2– 2013/09/02<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 24/10/2014
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 283** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-003, -004 & -008 Classes R, RS, W and WS & See the Appendix for the Qualified part number list | Report: N°191 for_Deutsch_ACP005 Form2– Issue 1_2014/07/10<br>Steffen Ohde - Airbus |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/10/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# 1 RECEPTACLE SQUARE FLANGE EN2997-003 Class RS

| EN2997 | DEUTSCH |
|---|---|
| EN2997RS00803x* | 983-0RS 08-03 x* |
| EN2997RS00806x* | 983-0RS 08-06 x* |
| EN2997RS00898x* | 983-0RS 08-98 x* |
| EN2997RS01005x* | 983-0RS 10-05 x* |
| EN2997RS01006x* | 983-0RS 10-06 x* |
| EN2997RS01012x* | 983-0RS 10-12 x* |
| EN2997RS01203x* | 983-0RS 12-03 x* |
| EN2997RS01212x* | 983-0RS 12-12 x* |
| EN2997RS01221x* | 983-0RS 12-21 x* |
| EN2997RS01404x* | 983-0RS 14-04 x* |
| EN2997RS01407x* | 983-0RS 14-07 x* |
| EN2997RS01412x* | 983-0RS 14-12 x* |
| EN2997RS01415x* | 983-0RS 14-15 x* |
| EN2997RS01610x* | 983-0RS 16-10 x* |
| EN2997RS01624x* | 983-0RS 16-24 x* |
| EN2997RS01808x* | 983-0RS 18-08 x* |
| EN2997RS01814x* | 983-0RS 18-14 x* |
| EN2997RS01831x* | 983-0RS 18-31 x* |
| EN2997RS02016x* | 983-0RS 20-16 x* |
| EN2997RS02025x* | 983-0RS 20-25 x* |
| EN2997RS02028x* | 983-0RS 20-28 x* |
| EN2997RS02039x* | 983-0RS 20-39 x* |
| EN2997RS02041x* | 983-0RS 20-41 x* |
| EN2997RS02212x* | 983-0RS 22-12 x* |
| EN2997RS02219x* | 983-0RS 22-19 x* |
| EN2997RS02230x* | 983-0RS 22-30 x* |
| EN2997RS02232x* | 983-0RS 22-32 x* |
| EN2997RS02239x* | 983-0RS 22-39 x* |
| EN2997RS02255x* | 983-0RS 22-55 x* |
| EN2997RS02430x* | 983-0RS 24-30 x* |
| EN2997RS02457x* | 983-0RS 24-57 x* |
| EN2997RS02461x* | 983-0RS 24-61 x* |
| EN2997RS02842x* | 983-0RS 28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## 2 RECEPTACLE SQUARE FLANGE EN2997-003 Class WS

| EN2997 | DEUTSCH |
|---|---|
| EN2997WS00803x* | 983-0WS 08-03 x* |
| EN2997WS00806x* | 983-0WS 08-06 x* |
| EN2997WS00898x* | 983-0WS 08-98 x* |
| EN2997WS01005x* | 983-0WS 10-05 x* |
| EN2997WS01006x* | 983-0WS 10-06 x* |
| EN2997WS01012x* | 983-0WS 10-12 x* |
| EN2997WS01203x* | 983-0WS 12-03 x* |
| EN2997WS01212x* | 983-0WS 12-12 x* |
| EN2997WS01221x* | 983-0WS 12-21 x* |
| EN2997WS01404x* | 983-0WS 14-04 x* |
| EN2997WS01407x* | 983-0WS 14-07 x* |
| EN2997WS01412x* | 983-0WS 14-12 x* |
| EN2997WS01415x* | 983-0WS 14-15 x* |
| EN2997WS01610x* | 983-0WS 16-10 x* |
| EN2997WS01624x* | 983-0WS 16-24 x* |
| EN2997WS01808x* | 983-0WS 18-08 x* |
| EN2997WS01814x* | 983-0WS 18-14 x* |
| EN2997WS01831x* | 983-0WS 18-31 x* |
| EN2997WS02016x* | 983-0WS 20-16 x* |
| EN2997WS02025x* | 983-0WS 20-25 x* |
| EN2997WS02028x* | 983-0WS 20-28 x* |
| EN2997WS02039x* | 983-0WS 20-39 x* |
| EN2997WS02041x* | 983-0WS 20-41 x* |
| EN2997WS02212x* | 983-0WS 22-12 x* |
| EN2997WS02219x* | 983-0WS 22-19 x* |
| EN2997WS02230x* | 983-0WS 22-30 x* |
| EN2997WS02232x* | 983-0WS 22-32 x* |
| EN2997WS02239x* | 983-0WS 22-39 x* |
| EN2997WS02255x* | 983-0WS 22-55 x* |
| EN2997WS02430x* | 983-0WS 24-30 x* |
| EN2997WS02457x* | 983-0WS 24-57 x* |
| EN2997WS02461x* | 983-0WS 24-61 x* |
| EN2997WS02842x* | 983-0WS 28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

# 3 RECEPTACLE JAM-NUT EN2997-004 Class RS

| EN2997 | DEUTSCH |
|---|---|
| EN2997RS70803x* | 983-7RS 08-03 x* |
| EN2997RS70806x* | 983-7RS 08-06 x* |
| EN2997RS70898x* | 983-7RS 08-98 x* |
| EN2997RS71005x* | 983-7RS 10-05 x* |
| EN2997RS71006x* | 983-7RS 10-06 x* |
| EN2997RS71012x* | 983-7RS 10-12 x* |
| EN2997RS71203x* | 983-7RS 12-03 x* |
| EN2997RS71212x* | 983-7RS 12-12 x* |
| EN2997RS71221x* | 983-7RS 12-21 x* |
| EN2997RS71404x* | 983-7RS 14-04 x* |
| EN2997RS71407x* | 983-7RS 14-07 x* |
| EN2997RS71412x* | 983-7RS 14-12 x* |
| EN2997RS71415x* | 983-7RS 14-15 x* |
| EN2997RS71610x* | 983-7RS 16-10 x* |
| EN2997RS71624x* | 983-7RS 16-24 x* |
| EN2997RS71808x* | 983-7RS 18-08 x* |
| EN2997RS71814x* | 983-7RS 18-14 x* |
| EN2997RS71831x* | 983-7RS 18-31 x* |
| EN2997RS72016x* | 983-7RS 20-16 x* |
| EN2997RS72025x* | 983-7RS 20-25 x* |
| EN2997RS72028x* | 983-7RS 20-28 x* |
| EN2997RS72039x* | 983-7RS 20-39 x* |
| EN2997RS72041x* | 983-7RS 20-41 x* |
| EN2997RS72212x* | 983-7RS 22-12 x* |
| EN2997RS72219x* | 983-7RS 22-19 x* |
| EN2997RS72230x* | 983-7RS 22-30 x* |
| EN2997RS72232x* | 983-7RS 22-32 x* |
| EN2997RS72239x* | 983-7RS 22-39 x* |
| EN2997RS72255x* | 983-7RS 22-55 x* |
| EN2997RS72430x* | 983-7RS 24-30 x* |
| EN2997RS72457x* | 983-7RS 24-57 x* |
| EN2997RS72461x* | 983-7RS 24-61 x* |
| EN2997RS72842x* | 983-7RS 28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

# 4 RECEPTACLE JAM-NUT EN2997-004 Class WS

| EN2997 | DEUTSCH |
|---|---|
| EN2997WS70803x* | 983-7WS 08-03 x* |
| EN2997WS70806x* | 983-7WS 08-06 x* |
| EN2997WS70898x* | 983-7WS 08-98 x* |
| EN2997WS71005x* | 983-7WS 10-05 x* |
| EN2997WS71006x* | 983-7WS 10-06 x* |
| EN2997WS71012x* | 983-7WS 10-12 x* |
| EN2997WS71203x* | 983-7WS 12-03 x* |
| EN2997WS71212x* | 983-7WS 12-12 x* |
| EN2997WS71221x* | 983-7WS 12-21 x* |
| EN2997WS71404x* | 983-7WS 14-04 x* |
| EN2997WS71407x* | 983-7WS 14-07 x* |
| EN2997WS71412x* | 983-7WS 14-12 x* |
| EN2997WS71415x* | 983-7WS 14-15 x* |
| EN2997WS71610x* | 983-7WS 16-10 x* |
| EN2997WS71624x* | 983-7WS 16-24 x* |
| EN2997WS71808x* | 983-7WS 18-08 x* |
| EN2997WS71814x* | 983-7WS 18-14 x* |
| EN2997WS71831x* | 983-7WS 18-31 x* |
| EN2997WS72016x* | 983-7WS 20-16 x* |
| EN2997WS72025x* | 983-7WS 20-25 x* |
| EN2997WS72028x* | 983-7WS 20-28 x* |
| EN2997WS72039x* | 983-7WS 20-39 x* |
| EN2997WS72041x* | 983-7WS 20-41 x* |
| EN2997WS72212x* | 983-7WS 22-12 x* |
| EN2997WS72219x* | 983-7WS 22-19 x* |
| EN2997WS72230x* | 983-7WS 22-30 x* |
| EN2997WS72232x* | 983-7WS 22-32 x* |
| EN2997WS72239x* | 983-7WS 22-39 x* |
| EN2997WS72255x* | 983-7WS 22-55 x* |
| EN2997WS72430x* | 983-7WS 24-30 x* |
| EN2997WS72457x* | 983-7WS 24-57 x* |
| EN2997WS72461x* | 983-7WS 24-61 x* |
| EN2997WS72842x* | 983-7WS 28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## 5 PLUG EN2997-008 Class RS

| EN2997 | DEUTSCH |
|---|---|
| EN2997RS60803x* | 983-6RS 08-03 x* |
| EN2997RS60806x* | 983-6RS 08-06 x* |
| EN2997RS60898x* | 983-6RS 08-98 x* |
| EN2997RS61005x* | 983-6RS 10-05 x* |
| EN2997RS61006x* | 983-6RS 10-06 x* |
| EN2997RS61012x* | 983-6RS 10-12 x* |
| EN2997RS61203x* | 983-6RS 12-03 x* |
| EN2997RS61212x* | 983-6RS 12-12 x* |
| EN2997RS61221x* | 983-6RS 12-21 x* |
| EN2997RS61404x* | 983-6RS 14-04 x* |
| EN2997RS61407x* | 983-6RS 14-07 x* |
| EN2997RS61412x* | 983-6RS 14-12 x* |
| EN2997RS61415x* | 983-6RS 14-15 x* |
| EN2997RS61610x* | 983-6RS 16-10 x* |
| EN2997RS61624x* | 983-6RS 16-24 x* |
| EN2997RS61808x* | 983-6RS 18-08 x* |
| EN2997RS61814x* | 983-6RS 18-14 x* |
| EN2997RS61831x* | 983-6RS 18-31 x* |
| EN2997RS62016x* | 983-6RS 20-16 x* |
| EN2997RS62025x* | 983-6RS 20-25 x* |
| EN2997RS62028x* | 983-6RS 20-28 x* |
| EN2997RS62039x* | 983-6RS 20-39 x* |
| EN2997RS62041x* | 983-6RS 20-41 x* |
| EN2997RS62212x* | 983-6RS 22-12 x* |
| EN2997RS62219x* | 983-6RS 22-19 x* |
| EN2997RS62230x* | 983-6RS 22-30 x* |
| EN2997RS62232x* | 983-6RS 22-32 x* |
| EN2997RS62239x* | 983-6RS 22-39 x* |
| EN2997RS62255x* | 983-6RS 22-55 x* |
| EN2997RS62430x* | 983-6RS 24-30 x* |
| EN2997RS62457x* | 983-6RS 24-57 x* |
| EN2997RS62461x* | 983-6RS 24-61 x* |
| EN2997RS62842x* | 983-6RS 28-42 x* |

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## 6 PLUG EN2997-008 Class R

| EN2997 | DEUTSCH |
|---|---|
| EN2997R60803x* | 983-6R 08-03 x* |
| EN2997R60806x* | 983-6R 08-06 x* |
| EN2997R60898x* | 983-6R 08-98 x* |
| EN2997R61005x* | 983-6R 10-05 x* |
| EN2997R61006x* | 983-6R 10-06 x* |
| EN2997R61012x* | 983-6R 10-12 x* |
| EN2997R61203x* | 983-6R 12-03 x* |
| EN2997R61212x* | 983-6R 12-12 x* |
| EN2997R61221x* | 983-6R 12-21 x* |
| EN2997R61404x* | 983-6R 14-04 x* |
| EN2997R61407x* | 983-6R 14-07 x* |
| EN2997R61412x* | 983-6R 14-12 x* |
| EN2997R61415x* | 983-6R 14-15 x* |
| EN2997R61610x* | 983-6R 16-10 x* |
| EN2997R61624x* | 983-6R 16-24 x* |
| EN2997R61808x* | 983-6R 18-08 x* |
| EN2997R61814x* | 983-6R 18-14 x* |
| EN2997R61831x* | 983-6R 18-31 x* |
| EN2997R62016x* | 983-6R 20-16 x* |
| EN2997R62025x* | 983-6R 20-25 x* |
| EN2997R62028x* | 983-6R 20-28 x* |
| EN2997R62039x* | 983-6R 20-39 x* |
| EN2997R62041x* | 983-6R 20-41 x* |
| EN2997R62212x* | 983-6R 22-12 x* |
| EN2997R62219x* | 983-6R 22-19 x* |
| EN2997R62230x* | 983-6R 22-30 x* |
| EN2997R62232x* | 983-6R 22-32 x* |
| EN2997R62239x* | 983-6R 22-39 x* |
| EN2997R62255x* | 983-6R 22-55 x* |
| EN2997R62430x* | 983-6R 24-30 x* |
| EN2997R62457x* | 983-6R 24-57 x* |
| EN2997R62461x* | 983-6R 24-61 x* |
| EN2997R62842x* | 983-6R 28-42 x* |

x = F, B or D; M, A or C
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* = N, 6, 7, 8, 9 or Y for other sizes

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## 7 PLUG EN2997-008 Class WS

| EN2997 | DEUTSCH |
|---|---|
| EN2997WS60803x* | 983-6WS 08-03 x* |
| EN2997WS60806x* | 983-6WS 08-06 x* |
| EN2997WS60898x* | 983-6WS 08-98 x* |
| EN2997WS61005x* | 983-6WS 10-05 x* |
| EN2997WS61006x* | 983-6WS 10-06 x* |
| EN2997WS61012x* | 983-6WS 10-12 x* |
| EN2997WS61203x* | 983-6WS 12-03 x* |
| EN2997WS61212x* | 983-6WS 12-12 x* |
| EN2997WS61221x* | 983-6WS 12-21 x* |
| EN2997WS61404x* | 983-6WS 14-04 x* |
| EN2997WS61407x* | 983-6WS 14-07 x* |
| EN2997WS61412x* | 983-6WS 14-12 x* |
| EN2997WS61415x* | 983-6WS 14-15 x* |
| EN2997WS61610x* | 983-6WS 16-10 x* |
| EN2997WS61624x* | 983-6WS 16-24 x* |
| EN2997WS61808x* | 983-6WS 18-08 x* |
| EN2997WS61814x* | 983-6WS 18-14 x* |
| EN2997WS61831x* | 983-6WS 18-31 x* |
| EN2997WS62016x* | 983-6WS 20-16 x* |
| EN2997WS62025x* | 983-6WS 20-25 x* |
| EN2997WS62028x* | 983-6WS 20-28 x* |
| EN2997WS62039x* | 983-6WS 20-39 x* |
| EN2997WS62041x* | 983-6WS 20-41 x* |
| EN2997WS62212x* | 983-6WS 22-12 x* |
| EN2997WS62219x* | 983-6WS 22-19 x* |
| EN2997WS62230x* | 983-6WS 22-30 x* |
| EN2997WS62232x* | 983-6WS 22-32 x* |
| EN2997WS62239x* | 983-6WS 22-39 x* |
| EN2997WS62255x* | 983-6WS 22-55 x* |
| EN2997WS62430x* | 983-6WS 24-30 x* |
| EN2997WS62457x* | 983-6WS 24-57 x* |
| EN2997WS62461x* | 983-6WS 24-61 x* |
| EN2997WS62842x* | 983-6WS 28-42 x* |

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## 8 PLUG EN2997-008 Class W

| EN2997 | DEUTSCH |
|---|---|
| EN2997W60803x* | 983-6W 08-03 x* |
| EN2997W60806x* | 983-6W 08-06 x* |
| EN2997W60898x* | 983-6W 08-98 x* |
| EN2997W61005x* | 983-6W 10-05 x* |
| EN2997W61006x* | 983-6W 10-06 x* |
| EN2997W61012x* | 983-6W 10-12 x* |
| EN2997W61203x* | 983-6W 12-03 x* |
| EN2997W61212x* | 983-6W 12-12 x* |
| EN2997W61221x* | 983-6W 12-21 x* |
| EN2997W61404x* | 983-6W 14-04 x* |
| EN2997W61407x* | 983-6W 14-07 x* |
| EN2997W61412x* | 983-6W 14-12 x* |
| EN2997W61415x* | 983-6W 14-15 x* |
| EN2997W61610x* | 983-6W 16-10 x* |
| EN2997W61624x* | 983-6W 16-24 x* |
| EN2997W61808x* | 983-6W 18-08 x* |
| EN2997W61814x* | 983-6W 18-14 x* |
| EN2997W61831x* | 983-6W 18-31 x* |
| EN2997W62016x* | 983-6W 20-16 x* |
| EN2997W62025x* | 983-6W 20-25 x* |
| EN2997W62028x* | 983-6W 20-28 x* |
| EN2997W62039x* | 983-6W 20-39 x* |
| EN2997W62041x* | 983-6W 20-41 x* |
| EN2997W62212x* | 983-6W 22-12 x* |
| EN2997W62219x* | 983-6W 22-19 x* |
| EN2997W62230x* | 983-6W 22-30 x* |
| EN2997W62232x* | 983-6W 22-32 x* |
| EN2997W62239x* | 983-6W 22-39 x* |
| EN2997W62255x* | 983-6W 22-55 x* |
| EN2997W62430x* | 983-6W 24-30 x* |
| EN2997W62457x* | 983-6W 24-57 x* |
| EN2997W62461x* | 983-6W 24-61 x* |
| EN2997W62842x* | 983-6W 28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 282**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA FASTENING SYSTEMS
800 S. STATE COLLEGE BLVD
FULLERTON CA 92831 USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3079 | EN 3566, EN 3270 & EN 3248 | Report: N°267 for Alcoa ACP005 Form2_2014/05/07<br>Heinrich Hackmann, AIRBUS Defence & Space |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 25/08/2014
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 281**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
ALCOA Fastening Systems MECAERO
Blvd du Grand Castaing
31128 Portet sur Garonne
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN 3912-050 | Report: N°106-2 for Alcoa Mecaero ACP005 Form2_2014/04/11<br>Michel Capblancq, MBR |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
17/10/2014

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 280** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : FEDERAL MOGUL Systems Protection
69, rue Henri Laroche
60800 Crépy en Valois
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN 6049-008 | Report: N°212-1 for Federal Mogul<br>ACP005 Form2– Issue 1_2013/10/09<br>Steve Allwood - QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11/07/2014

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 279** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

FEDERAL MOGUL Systems Protection
69, rue Henri Laroche
60800 Crépy en Valois
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN 6049-003 | Report: N°200 for Federal Mogul<br>ACP005 Form2– Issue 1_2013/01/30<br>Steve Allwood - QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11/07/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

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1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 278** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Connecteurs Electriques Deutsch<br>17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155 & See the Appendix for the Qualified part number list | Report: N°168 for_Deutsch_ACP005 Form2– Issue 1_2014/07/09<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 14/06/2014

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 1 1. CONTACTS, MALE, TYPE A, CRIMP, CLASS T EN2997-004

| EN3155-004 | DEUTSCH |
|---|---|
| EN3155-004M1618 | 097-0185-16 |
| EN3155-004M2020 | 097-0015-20 |
| EN3155-004M2018 | 097-0185-20 |

## 2 2. CONTACTS, FEMALE, TYPE A, CRIMP, CLASS T EN2997-005

| EN3155-005 | DEUTSCH |
|---|---|
| EN3155-005F1618 | 097-0186-16 |
| EN3155-005F2020 | 097-0016-20 |
| EN3155-005F2018 | 097-0205-20 |

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Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 277**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Trelleborg Sealing Solutions
101 Rue Saint-Martin
14110 Condé-sur-Noireau
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3050 | EN3049 | Report: N°124<br>for_TRELLEBORG_ACP005<br>Form2– 2014/02/28<br>Philippe HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11/04/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 276**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3004 | EN3014-070 | Report: N°233 for_LISI_ACP005 Form2– 2013/08/30<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

17/02/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 275** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Senior Aerospace Ermeto<br>ZA Euro Val de Loire<br>8 rue du Clos Thomas<br>41330 FOSSE - France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4560 | EN 4551, EN 4552, EN 4553, EN 4554, EN 4555, EN 4556, EN 4557, EN 4561, EN4562, EN 4563 | Report: N°224 for Senior Aerospace Ermeto ACP005 Form2– Issue 1_2013/05/22<br>Philippe Henry - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 14/02/2014

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 274**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : FEDERAL MOGUL Systems Protection
69, rue Henri Laroche
60800 Crépy en Valois
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4674-001 | EN4674-003 XXP & -004 XXP<br>See the Appendix for the Qualified part number list | Report: N°210 for Federal Mogul ACP005 Form2– Issue 1_2013/03/18<br>Steve Allwood - QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 14/02/2014
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

| EN 4674-003 Designation |
|---|
| EN4674-003-05 P |
| EN4674-003-08 P |
| EN4674-003-13 P |
| EN4674-003-16 P |
| EN4674-003-19 P |
| EN4674-003-25 P |
| EN4674-003-32 P |
| EN4674-003-38 P |
| EN4674-003-45 P |

| EN 4674-004 Designation |
|---|
| EN4674-004-05 P |
| EN4674-004-08 P |
| EN4674-004-13 P |
| EN4674-004-16 P |
| EN4674-004-19 P |
| EN4674-004-25 P |
| EN4674-004-32 P |
| EN4674-004-38 P |
| EN4674-004-45 P |

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1000 Brussels
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 273** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Conesys
548 Amapola Avenue
Torrance, CA90501
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4529-001 | EN4529-003N20<br>EN4529-003N16<br>EN4529-003N12 | Report: N°195 for_Conesys_ACP005 Form2– Issue 1_2013/04/06<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 14/02/2014

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 272** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155 & See the Appendix for the Qualified part number list | Report: N°167 for_Deutsch_ACP005 Form2– Issue 1_2013/10/04<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

14/02/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

1 **1. CONTACTS, MALE, TYPE A, DOUBLE CRIMP, CLASS T** **EN3155-044**

| EN3155-044 | DEUTSCH |
|---|---|
| EN3155-044M2022 | 097-0196-20 |

2 **2. CONTACTS, FEMALE, TYPE A, DOUBLE CRIMP, CLASS T** **EN3155-045**

| EN3155-045 | DEUTSCH |
|---|---|
| EN3155-045F2022 | 097-0197-20 |

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 271** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155 & See the Appendix for the Qualified part number list | Report: N°108 for_Deutsch_ACP005 Form2– Issue 1_2013/11/28<br>Pierre BAENA - AIRBUS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13/02/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 1 1. CONTACTS, MALE, TYPE A, CRIMP, CLASS S EN3155-070

| EN3155-070 | DEUTSCH |
|---|---|
| EN3155-070M2222 | 182-0936-22 |
| EN3155-070M2220 | 182-0860-22 |

## 2 2. CONTACTS, FEMALE, TYPE A, CRIMP, CLASS S EN3155-071

| EN3155-071 | DEUTSCH |
|---|---|
| EN3155-071F2222 | 182-0937-22 |
| EN3155-071F2220 | 182-0862-22 |

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Certification of Aerospace Standard Products

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1000 Brussels
BELGIUM

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Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 270**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Alcoa Fastening Systems (Linread Northbridge)
Viking Road, Wigston
Leicester, LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2583 | EN 2927-050<br>EN 3327-050 | Report: N°239 for ALCOA<br>ACP005 Form2– 2013/10/23<br>Keith ALLEN, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JANUARY 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13/01/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 269** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

FEDERAL MOGUL Systems Protection
69, rue Henri Laroche
60800 Crépy en Valois
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN6049-007<br>See Appendix for the Qualified part number list | Report: N°172 for Federal Mogul<br>ACP005 Form2– Issue 1_2012/11/12<br>Steve Allwood - QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JANUARY 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

14/01/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

EN 6049-007-05
EN 6049-007-08
EN 6049-007-13
EN 6049-007-19
EN 6049-007-25
EN 6049-007-32
EN 6049-007-40

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1000 Brussels
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 268**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Alcoa Fastening Systems Toulouse Operations
Boulevard du Grand Castaing
31128 Portet sur Garonne
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 7689 | EN 4129-040 & -060 | Report: N°227 for_Alcoa_ACP005 Form2– 2013/09/24<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 25/11/2013
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 267**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Alcoa Fastening Systems (Linread Northbridge)
Viking Road, Wigston
Leicester, LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2583 | EN 3327-080<br>EN 3009-060 | Report: N°203 for ALCOA<br>ACP005 Form2– 2013/10/30<br>Keith ALLEN, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
25/11/2013

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 266**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3685 | EN 3912-050 | Report: N°193-4 for_LISI_ACP005 Form2– 2013/07/23<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

22/11/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 265**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Alcoa Fastening Systems (Linread Northbridge)
Viking Road, Wigston
Leicester, LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2576 | EN 2925-060 | Report: N°235 for ALCOA<br>ACP005 Form2– 2013/07/22<br>Keith ALLEN, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
24/10/2013

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 264**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2582 | EN2929-100 | Report: N°193-2 for_LISI_ACP005 Form2– 2013/07/23<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24/10/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 263**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-050, -060, -070 & -100<br>EN3637-060, -080, -100 & -120<br>EN3672-050 & -060<br>EN4120-050 & -060<br>EN4124-050 | Report: N°211 for_LISI_ACP005 Form2– 2013/05/06<br>Philippe HENRY, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13/09/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 262**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-060<br>&<br>EN 4124-060 | Report: N°190 for_LISI_ACP005 Form2– 2013/04/02<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
27/08/2013

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 261**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2933-050 | Report: N°193-3 for_LISI_ACP005 Form2– 2013/04/08<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

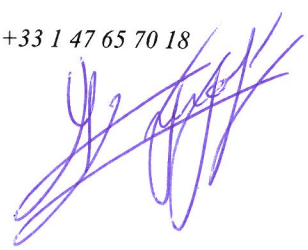
**August 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 23/07/2013
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 260** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | ALCOA FIXATIONS SIMMONDS<br>9 rue des Cressonnières<br>72110 Saint Cosme en Vairais<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3299 | EN4396-016,-018, -022, -037, -038, -39<br>and by Analogy<br>EN3728- 016,-018, -022, -037, -038, -39 | Report: N°188 for_Alcoa_ACP005 Form2– 2012/10/30<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 31/05/2013

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 259**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Amphenol Socapex
948 Promenade de l'Arve
BP29, 74311, Thyez
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-024 & -025 | MBR Report N°64 ACP005-Form 2 Date 2012-12-20<br>Trevor Williams, QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 17/05/2013

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 258**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9154 | EN4128-060 & -120 | Report: N°183 for_LISI_ACP005 Form2– 2012/12/20<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 03/05/2013

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 257**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SPS Technologies
191 Barkby Road
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-080 | Report: N°201 for_SPS_ACP005 Form2– Issue 1_2013/02/18<br>Keith ALLEN, Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
03/05/2013

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 256**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3239-060 | Report: N°174 for_LISI_ACP005 Form2– 2013/01/17<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
26/04/2013

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 255** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

FEDERAL MOGUL Systems Protection
69, rue Henri Laroche
60800 Crépy en Valois
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6049-001 | EN6049-006 | Report: N°107 for Federal Mogul<br>ACP005 Form2– Issue 1_2012/12/21<br>Steve Allwood - QINETIQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

26/03/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 254**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : DECOMATIC
Zone d'activités de la Canterie
37800 ste Maure de Touraine
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN2926-050 & -070 | Report: N°67-1 for Decomatic<br>ACP005 Form2– 2012/11/06<br>Michel Capblancq - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 26/02/2013

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 253**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

DECOMATIC
Zone d'activités de la Canterie
37800 ste Maure de Touraine
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3686-050 & -060<br>EN3687-050, -060 & -070<br>EN3912-050 & -060 | Report: N°67-1 for Decomatic<br>ACP005 Form2– 2012/10/30<br>Michel Capblancq - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

26/02/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

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1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 252** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Alcoa Fixations Simmonds<br>9, rue des Cressonnières<br>72110 Saint Cosme en Vairais<br>FRANCE |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3752 | EN3720-050, -060, -070, -080, -100 & -120<br>EN3723-030 | Report: N°137 for_Alcoa_ACP005 Form2– 2012/12/12<br>Philippe HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 26/02/2013 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 251** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Connecteurs Electriques Deutsch<br>17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

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| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-003, -004, -008, -014, -015 and -016 for Size 22 contacts<br>For the Class see Appendix for the Qualified part number list | Report: N°169 for_Deutsch_ACP005 Form2– Issue 1_2012/05/24 & ACP008 N°272 2014-01-22<br>Christian Mazelle – SNECMA<br>Report: N°316 for _Deutsch _ACP005 Form2– 2015/12/10<br>Trevor Williams - QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 08/02/2013

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Christelle Festaud, Secretary General, *+33 1 47 65 70 11*

## 1 RECEPTACLE SQUARE FLANGE EN2997-003 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S00806x* | 983-0S 08-06 x* |
| EN2997S01012x* | 983-0S 10-12 x* |
| EN2997S01221x* | 983-0S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 2 RECEPTACLE SQUARE FLANGE EN2997-003 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE00806x* | 983-0SE 08-06 x*-A1499 |
| EN2997SE01012x* | 983-0SE 10-12 x*-A1499 |
| EN2997SE01221x* | 983-0SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

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Certification Aerospace Standard Products

## 3 RECEPTACLE JAM-NUT EN2997-004 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S70806x* | 983-7S 08-06 x* |
| EN2997S71012x* | 983-7S 10-12 x* |
| EN2997S71221x* | 983-7S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 4 RECEPTACLE JAM-NUT EN2997-004 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE70806x* | 983-7SE 08-06 x*-A1499 |
| EN2997SE71012x* | 983-7SE 10-12 x*-A1499 |
| EN2997SE71221x* | 983-7SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**5 PLUG** **EN2997-008 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S60806x* | 983-6S 08-06 x* |
| EN2997S61012x* | 983-6S 10-12 x* |
| EN2997S61221x* | 983-6S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**6 PLUG** **EN2997-008 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE60806x* | 983-6SE 08-06 x*-A1499 |
| EN2997SE61012x* | 983-6SE 10-12 x*-A1499 |
| EN2997SE61221x* | 983-6SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

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**7 PLUG** **EN2997-008 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997K60806x* | 983-6K 08-06 x* |
| EN2997K61012x* | 983-6K 10-12 x* |
| EN2997K61221x* | 983-6K 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**8 PLUG** **EN2997-008 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE60806x* | 983-6KE 08-06 x*-A1499 |
| EN2997KE61012x* | 983-6KE 10-12 x*-A1499 |
| EN2997KE61221x* | 983-6KE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 9 RECEPTACLE SQUARE FLANGE EN2997-014 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997SA0806x* | 983-15 S 2-08-06 x* |
| EN2997SA1012x* | 983-15 S 2-10-12 x* |
| EN2997SA1221x* | 983-15 S 2-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 10 RECEPTACLE SQUARE FLANGE EN2997-014 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEA0806x* | 983-15 SE 2-08-06 x*-A1499 |
| EN2997SEA1012x* | 983-15 SE 2-10-12 x*-A1499 |
| EN2997SEA1221x* | 983-15 SE 2-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

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## 11 RECEPTACLE JAM-NUT EN2997-015 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997SB0806x* | 983-15 S 3-08-06 x* |
| EN2997SB1012x* | 983-15 S 3-10-12 x* |
| EN2997SB1221x* | 983-15 S 3-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 12 RECEPTACLE JAM-NUT EN2997-015 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEB0806x* | 983-15 SE 3-08-06 x*-A1499 |
| EN2997SEB1012x* | 983-15 SE 3-10-12 x*-A1499 |
| EN2997SEB1221x* | 983-15 SE 3-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**13 PLUG** **EN2997-016 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SC0806x* | 983-15 S 7-08-06 x* |
| EN2997SC1012x* | 983-15 S 7-10-12 x* |
| EN2997SC1221x* | 983-15 S 7-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**14 PLUG** **EN2997-016 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEC0806x* | 983-15 SE 7-08-06 x*-A1499 |
| EN2997SEC1012x* | 983-15 SE 7-10-12 x*-A1499 |
| EN2997SEC1221x* | 983-15 SE 7-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

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Certification of Aerospace Standard Products

**15 PLUG** **EN2997-016 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KC0806x* | 983-15 K 7-08-06 x* |
| EN2997KC1012x* | 983-15 K 7-10-12 x* |
| EN2997KC1221x* | 983-15 K 7-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**16 PLUG** **EN2997-016 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KEC0806x* | 983-15 KE 7-08-06 x*-A1499 |
| EN2997KEC1012x* | 983-15 KE 7-10-12 x*-A1499 |
| EN2997KEC1221x* | 983-15 KE 7-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

ASD-CERT
Certification of Aerospace Standard Products

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1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 251**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-003, -004, -008, -014, -015 and -016 for Size 22 contacts<br>For the Class see Appendix for the Qualified part number list | Report: N°169 for_Deutsch_ACP005 Form2– Issue 1_2012/05/24 & & ACP008 N°272 2014-01-22<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 08/02/2013

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 251 - Appendix 1 for the Qualified part number list

### 1 RECEPTACLE SQUARE FLANGE EN2997-003 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S00806x* | 983-0S 08-06 x* |
| EN2997S01012x* | 983-0S 10-12 x* |
| EN2997S01221x* | 983-0S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

### 2 RECEPTACLE SQUARE FLANGE EN2997-003 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE00806x* | 983-0SE 08-06 x*-A1499 |
| EN2997SE01012x* | 983-0SE 10-12 x*-A1499 |
| EN2997SE01221x* | 983-0SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

ASD-CERT
Certification Aerospace Standard Products

### 3 RECEPTACLE JAM-NUT EN2997-004 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S70806x* | 983-7S 08-06 x* |
| EN2997S71012x* | 983-7S 10-12 x* |
| EN2997S71221x* | 983-7S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

### 4 RECEPTACLE JAM-NUT EN2997-004 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE70806x* | 983-7SE 08-06 x*-A1499 |
| EN2997SE71012x* | 983-7SE 10-12 x*-A1499 |
| EN2997SE71221x* | 983-7SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**5 PLUG** **EN2997-008 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S60806x* | 983-6S 08-06 x* |
| EN2997S61012x* | 983-6S 10-12 x* |
| EN2997S61221x* | 983-6S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**6 PLUG** **EN2997-008 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE60806x* | 983-6SE 08-06 x*-A1499 |
| EN2997SE61012x* | 983-6SE 10-12 x*-A1499 |
| EN2997SE61221x* | 983-6SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

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**7 PLUG** **EN2997-008 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997K60806x* | 983-6K 08-06 x* |
| EN2997K61012x* | 983-6K 10-12 x* |
| EN2997K61221x* | 983-6K 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**8 PLUG** **EN2997-008 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE60806x* | 983-6KE 08-06 x*-A1499 |
| EN2997KE61012x* | 983-6KE 10-12 x*-A1499 |
| EN2997KE61221x* | 983-6KE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 9 RECEPTACLE SQUARE FLANGE EN2997-014 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997SA0806x* | 983-15 S 2-08-06 x* |
| EN2997SA1012x* | 983-15 S 2-10-12 x* |
| EN2997SA1221x* | 983-15 S 2-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 10 RECEPTACLE SQUARE FLANGE EN2997-014 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEA0806x* | 983-15 SE 2-08-06 x*-A1499 |
| EN2997SEA1012x* | 983-15 SE 2-10-12 x*-A1499 |
| EN2997SEA1221x* | 983-15 SE 2-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

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## 11 RECEPTACLE JAM-NUT EN2997-015 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997SB0806x* | 983-15 S 3-08-06 x* |
| EN2997SB1012x* | 983-15 S 3-10-12 x* |
| EN2997SB1221x* | 983-15 S 3-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 12 RECEPTACLE JAM-NUT EN2997-015 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEB0806x* | 983-15 SE 3-08-06 x*-A1499 |
| EN2997SEB1012x* | 983-15 SE 3-10-12 x*-A1499 |
| EN2997SEB1221x* | 983-15 SE 3-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**13 PLUG** **EN2997-016 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SC0806x* | 983-15 S 7-08-06 x* |
| EN2997SC1012x* | 983-15 S 7-10-12 x* |
| EN2997SC1221x* | 983-15 S 7-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**14 PLUG** **EN2997-016 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEC0806x* | 983-15 SE 7-08-06 x*-A1499 |
| EN2997SEC1012x* | 983-15 SE 7-10-12 x*-A1499 |
| EN2997SEC1221x* | 983-15 SE 7-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

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**15 PLUG** **EN2997-016 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KC0806x* | 983-15 K 7-08-06 x* |
| EN2997KC1012x* | 983-15 K 7-10-12 x* |
| EN2997KC1221x* | 983-15 K 7-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**16 PLUG** **EN2997-016 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KEC0806x* | 983-15 KE 7-08-06 x*-A1499 |
| EN2997KEC1012x* | 983-15 KE 7-10-12 x*-A1499 |
| EN2997KEC1221x* | 983-15 KE 7-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

ASD-CERT
Certification of Aerospace Standard Products

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BELGIUM

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Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 251**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-003, -004, -008, -014, -015 and -016 for Size 22 contacts<br>For the Class see Appendix for the Qualified part number list | Report: N°169 for_Deutsch_ACP005 Form2– Issue 1_2012/05/24<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

08/02/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 1 RECEPTACLE SQUARE FLANGE EN2997-003 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S00806x* | 983-0S 08-06 x* |
| EN2997S01012x* | 983-0S 10-12 x* |
| EN2997S01221x* | 983-0S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 2 RECEPTACLE SQUARE FLANGE EN2997-003 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE00806x* | 983-0SE 08-06 x*-A1499 |
| EN2997SE01012x* | 983-0SE 10-12 x*-A1499 |
| EN2997SE01221x* | 983-0SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 3 RECEPTACLE JAM-NUT EN2997-004 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S70806x* | 983-7S 08-06 x* |
| EN2997S71012x* | 983-7S 10-12 x* |
| EN2997S71221x* | 983-7S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 4 RECEPTACLE JAM-NUT EN2997-004 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE70806x* | 983-7SE 08-06 x*-A1499 |
| EN2997SE71012x* | 983-7SE 10-12 x*-A1499 |
| EN2997SE71221x* | 983-7SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 5 PLUG — EN2997-008 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S60806x* | 983-6S 08-06 x* |
| EN2997S61012x* | 983-6S 10-12 x* |
| EN2997S61221x* | 983-6S 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 6 PLUG — EN2997-008 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE60806x* | 983-6SE 08-06 x*-A1499 |
| EN2997SE61012x* | 983-6SE 10-12 x*-A1499 |
| EN2997SE61221x* | 983-6SE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 7 PLUG — EN2997-008 Class K

| EN2997 | DEUTSCH |
|---|---|
| EN2997K60806x* | 983-6K 08-06 x* |
| EN2997K61012x* | 983-6K 10-12 x* |
| EN2997K61221x* | 983-6K 12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 8 PLUG — EN2997-008 Class KE

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE60806x* | 983-6KE 08-06 x*-A1499 |
| EN2997KE61012x* | 983-6KE 10-12 x*-A1499 |
| EN2997KE61221x* | 983-6KE 12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 9 RECEPTACLE SQUARE FLANGE EN2997-014 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997SA0806x* | 983-15 S 2-08-06 x* |
| EN2997SA1012x* | 983-15 S 2-10-12 x* |
| EN2997SA1221x* | 983-15 S 2-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 10 RECEPTACLE SQUARE FLANGE EN2997-014 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEA0806x* | 983-15 SE 2-08-06 x*-A1499 |
| EN2997SEA1012x* | 983-15 SE 2-10-12 x*-A1499 |
| EN2997SEA1221x* | 983-15 SE 2-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 11 RECEPTACLE JAM-NUT EN2997-015 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997SB0806x* | 983-15 S 3-08-06 x* |
| EN2997SB1012x* | 983-15 S 3-10-12 x* |
| EN2997SB1221x* | 983-15 S 3-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

## 12 RECEPTACLE JAM-NUT EN2997-015 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEB0806x* | 983-15 SE 3-08-06 x*-A1499 |
| EN2997SEB1012x* | 983-15 SE 3-10-12 x*-A1499 |
| EN2997SEB1221x* | 983-15 SE 3-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**13 PLUG** **EN2997-016 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SC0806x* | 983-15 S 7-08-06 x* |
| EN2997SC1012x* | 983-15 S 7-10-12 x* |
| EN2997SC1221x* | 983-15 S 7-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**14 PLUG** **EN2997-016 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEC0806x* | 983-15 SE 7-08-06 x*-A1499 |
| EN2997SEC1012x* | 983-15 SE 7-10-12 x*-A1499 |
| EN2997SEC1221x* | 983-15 SE 7-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**15 PLUG** **EN2997-016 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KC0806x* | 983-15 K 7-08-06 x* |
| EN2997KC1012x* | 983-15 K 7-10-12 x* |
| EN2997KC1221x* | 983-15 K 7-12-21 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

**16 PLUG** **EN2997-016 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KEC0806x* | 983-15 KE 7-08-06 x*-A1499 |
| EN2997KEC1012x* | 983-15 KE 7-10-12 x*-A1499 |
| EN2997KEC1221x* | 983-15 KE 7-12-21 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for sizes 10 and 12

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 250** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | PAOLO ASTORI SPA<br>GATTICA - plant via Mirabella 9<br>Maggiate Superiore-Gattica 28013<br>ITALY |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2907-080 | MBR Report N° 111_ACP005-Form 2_Date 2012-03-27<br>Philippe HENRY, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 30/11/2012 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 249**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Alcoa Fixations Simmonds
9, rue des Cressonnières
72110 Saint Cosme en Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2906-050 and by analogy EN2907-050<br><br>EN2907-060, -070 & -120 and by analogy EN2906-060, -070 & -120 | Report: N°185 for_Alcoa_ACP005 Form2– 2012/06/18 & Report: N°189 for_Alcoa_ACP005 Form2– 2012/10/26<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 03/10/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 249**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Alcoa Fixations Simmonds
9, rue des Cressonnières
72110 Saint Cosme en Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2906-050 and by analogy EN2907-050 | Report: N°185 for_Alcoa_ACP005 Form2– 2012/06/18<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
03/10/2012

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 248**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-<br>See Appendix for the Qualified part number list | MBR Qualification Report of 2012-01-24 & ACP008 N°272 2014-01-22<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 14/09/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT

## PQ 248 - Appendix 1 for the Qualified part number list

**1. RECEPTACLE SQUARE FLANGE** **EN2997-014 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SA0803x* | 983-15 S 2-08-03 x* |
| EN2997SA0806x* | 983-15 S 2-08-06 x* |
| EN2997SA0898x* | 983-15 S 2-08-98 x* |
| EN2997SA1005x* | 983-15 S 2-10-05 x* |
| EN2997SA1006x* | 983-15 S 2-10-06 x* |
| EN2997SA1012x* | 983-15 S 2-10-12 x* |
| EN2997SA1203x* | 983-15 S 2-12-03 x* |
| EN2997SA1212x* | 983-15 S 2-12-12 x* |
| EN2997SA1221x* | 983-15 S 2-12-21 x* |
| EN2997SA1404x* | 983-15 S 2-14-04 x* |
| EN2997SA1407x* | 983-15 S 2-14-07 x* |
| EN2997SA1412x* | 983-15 S 2-14-12 x* |
| EN2997SA1415x* | 983-15 S 2-14-15 x* |
| EN2997SA1610x* | 983-15 S 2-16-10 x* |
| EN2997SA1624x* | 983-15 S 2-16-24 x* |
| EN2997SA1808x* | 983-15 S 2-18-08 x* |
| EN2997SA1814x* | 983-15 S 2-18-14 x* |
| EN2997SA1831x* | 983-15 S 2-18-31 x* |
| EN2997SA2016x* | 983-15 S 2-20-16 x* |
| EN2997SA2025x* | 983-15 S 2-20-25 x* |
| EN2997SA2028x* | 983-15 S 2-20-28 x* |
| EN2997SA2039x* | 983-15 S 2-20-39 x* |
| EN2997SA2041x* | 983-15 S 2-20-41 x* |
| EN2997SA2212x* | 983-15 S 2-22-12 x* |
| EN2997SA2219x* | 983-15 S 2-22-19 x* |
| EN2997SA2230x* | 983-15 S 2-22-30 x* |
| EN2997SA2232x* | 983-15 S 2-22-32 x* |
| EN2997SA2239x* | 983-15 S 2-22-39 x* |
| EN2997SA2255x* | 983-15 S 2-22-55 x* |
| EN2997SA2430x* | 983-15 S 2-24-30 x* |
| EN2997SA2443x* | 983-15 S 2-24-43 x* |
| EN2997SA2457x* | 983-15 S 2-24-57 x* |
| EN2997SA2461x* | 983-15 S 2-24-61 x* |
| EN2997SA2842x* | 983-15 S 2-28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

AECMA-CERT
N° 0006
The European Association of Aerospace Industries
- Certification -

ASD-CERT
Certification of Aerospace Standard Products

# ASD-CERT

## PQ 248 - Appendix 1 for the Qualified part number list

**2. RECEPTACLE SQUARE FLANGE** **EN2997-014 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEA0803x* | 983-15 SE 2-08-03 x*-A1499 |
| EN2997SEA0806x* | 983-15 SE 2-08-06 x*-A1499 |
| EN2997SEA0898x* | 983-15 SE 2-08-98 x*-A1499 |
| EN2997SEA1005x* | 983-15 SE 2-10-05 x*-A1499 |
| EN2997SEA1006x* | 983-15 SE 2-10-06 x*-A1499 |
| EN2997SEA1012x* | 983-15 SE 2-10-12 x*-A1499 |
| EN2997SEA1203x* | 983-15 SE 2-12-03 x*-A1499 |
| EN2997SEA1212x* | 983-15 SE 2-12-12 x*-A1499 |
| EN2997SEA1221x* | 983-15 SE 2-12-21 x*-A1499 |
| EN2997SEA1404x* | 983-15 SE 2-14-04 x*-A1499 |
| EN2997SEA1407x* | 983-15 SE 2-14-07 x*-A1499 |
| EN2997SEA1412x* | 983-15 SE 2-14-12 x*-A1499 |
| EN2997SEA1415x* | 983-15 SE 2-14-15 x*-A1499 |
| EN2997SEA1610x* | 983-15 SE 2-16-10 x*-A1499 |
| EN2997SEA1624x* | 983-15 SE 2-16-24 x*-A1499 |
| EN2997SEA1808x* | 983-15 SE 2-18-08 x*-A1499 |
| EN2997SEA1814x* | 983-15 SE 2-18-14 x*-A1499 |
| EN2997SEA1831x* | 983-15 SE 2-18-31 x*-A1499 |
| EN2997SEA2016x* | 983-15 SE 2-20-16 x*-A1499 |
| EN2997SEA2025x* | 983-15 SE 2-20-25 x*-A1499 |
| EN2997SEA2028x* | 983-15 SE 2-20-28 x*-A1499 |
| EN2997SEA2039x* | 983-15 SE 2-20-39 x*-A1499 |
| EN2997SEA2041x* | 983-15 SE 2-20-41 x*-A1499 |
| EN2997SEA2212x* | 983-15 SE 2-22-12 x*-A1499 |
| EN2997SEA2219x* | 983-15 SE 2-22-19 x*-A1499 |
| EN2997SEA2230x* | 983-15 SE 2-22-30 x*-A1499 |
| EN2997SEA2232x* | 983-15 SE 2-22-32 x*-A1499 |
| EN2997SEA2239x* | 983-15 SE 2-22-39 x*-A1499 |
| EN2997SEA2255x* | 983-15 SE 2-22-55 x*-A1499 |
| EN2997SEA2430x* | 983-15 SE 2-24-30 x*-A1499 |
| EN2997SEA2443x* | 983-15 SE 2-24-43 x*-A1499 |
| EN2997SEA2457x* | 983-15 SE 2-24-57 x*-A1499 |
| EN2997SEA2461x* | 983-15 SE 2-24-61 x*-A1499 |
| EN2997SEA2842x* | 983-15 SE 2-28-42 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

AECMA-CERT
N° 0006
The European Association of Aerospace Industries
- Certification -

ASD-CERT
Certification of Aerospace Standard Products

# ASD-CERT

## PQ 248 - Appendix 1 for the Qualified part number list

**3. RECEPTACLE SQUARE FLANGE** **EN2997-014 Class SV**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SVA0803x* | 983-15 SV 2-08-03 x* |
| EN2997SVA0806x* | 983-15 SV 2-08-06 x* |
| EN2997SVA0898x* | 983-15 SV 2-08-98 x* |
| EN2997SVA1005x* | 983-15 SV 2-10-05 x* |
| EN2997SVA1006x* | 983-15 SV 2-10-06 x* |
| EN2997SVA1012x* | 983-15 SV 2-10-12 x* |
| EN2997SVA1203x* | 983-15 SV 2-12-03 x* |
| EN2997SVA1212x* | 983-15 SV 2-12-12 x* |
| EN2997SVA1221x* | 983-15 SV 2-12-21 x* |
| EN2997SVA1404x* | 983-15 SV 2-14-04 x* |
| EN2997SVA1407x* | 983-15 SV 2-14-07 x* |
| EN2997SVA1412x* | 983-15 SV 2-14-12 x* |
| EN2997SVA1415x* | 983-15 SV 2-14-15 x* |
| EN2997SVA1610x* | 983-15 SV 2-16-10 x* |
| EN2997SVA1624x* | 983-15 SV 2-16-24 x* |
| EN2997SVA1808x* | 983-15 SV 2-18-08 x* |
| EN2997SVA1814x* | 983-15 SV 2-18-14 x* |
| EN2997SVA1831x* | 983-15 SV 2-18-31 x* |
| EN2997SVA2016x* | 983-15 SV 2-20-16 x* |
| EN2997SVA2025x* | 983-15 SV 2-20-25 x* |
| EN2997SVA2028x* | 983-15 SV 2-20-28 x* |
| EN2997SVA2039x* | 983-15 SV 2-20-39 x* |
| EN2997SVA2041x* | 983-15 SV 2-20-41 x* |
| EN2997SVA2212x* | 983-15 SV 2-22-12 x* |
| EN2997SVA2219x* | 983-15 SV 2-22-19 x* |
| EN2997SVA2230x* | 983-15 SV 2-22-30 x* |
| EN2997SVA2232x* | 983-15 SV 2-22-32 x* |
| EN2997SVA2239x* | 983-15 SV 2-22-39 x* |
| EN2997SVA2255x* | 983-15 SV 2-22-55 x* |
| EN2997SVA2430x* | 983-15 SV 2-24-30 x* |
| EN2997SVA2443x* | 983-15 SV 2-24-43 x* |
| EN2997SVA2457x* | 983-15 SV 2-24-57 x* |
| EN2997SVA2461x* | 983-15 SV 2-24-61 x* |
| EN2997SVA2842x* | 983-15 SV 2-28-42 x* |

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**4. RECEPTACLE JAM-NUT** **EN2997-015 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SB0803x* | 983-15 S 3-08-03 x* |
| EN2997SB0806x* | 983-15 S 3-08-06 x* |
| EN2997SB0898x* | 983-15 S 3-08-98 x* |
| EN2997SB1005x* | 983-15 S 3-10-05 x* |
| EN2997SB1006x* | 983-15 S 3-10-06 x* |
| EN2997SB1012x* | 983-15 S 3-10-12 x* |
| EN2997SB1203x* | 983-15 S 3-12-03 x* |
| EN2997SB1212x* | 983-15 S 3-12-12 x* |
| EN2997SB1221x* | 983-15 S 3-12-21 x* |
| EN2997SB1404x* | 983-15 S 3-14-04 x* |
| EN2997SB1407x* | 983-15 S 3-14-07 x* |
| EN2997SB1412x* | 983-15 S 3-14-12 x* |
| EN2997SB1415x* | 983-15 S 3-14-15 x* |
| EN2997SB1610x* | 983-15 S 3-16-10 x* |
| EN2997SB1624x* | 983-15 S 3-16-24 x* |
| EN2997SB1808x* | 983-15 S 3-18-08 x* |
| EN2997SB1814x* | 983-15 S 3-18-14 x* |
| EN2997SB1831x* | 983-15 S 3-18-31 x* |
| EN2997SB2016x* | 983-15 S 3-20-16 x* |
| EN2997SB2025x* | 983-15 S 3-20-25 x* |
| EN2997SB2028x* | 983-15 S 3-20-28 x* |
| EN2997SB2039x* | 983-15 S 3-20-39 x* |
| EN2997SB2041x* | 983-15 S 3-20-41 x* |
| EN2997SB2212x* | 983-15 S 3-22-12 x* |
| EN2997SB2219x* | 983-15 S 3-22-19 x* |
| EN2997SB2230x* | 983-15 S 3-22-30 x* |
| EN2997SB2232x* | 983-15 S 3-22-32 x* |
| EN2997SB2239x* | 983-15 S 3-22-39 x* |
| EN2997SB2255x* | 983-15 S 3-22-55 x* |
| EN2997SB2430x* | 983-15 S 3-24-30 x* |
| EN2997SB2443x* | 983-15 S 3-24-43 x* |
| EN2997SB2457x* | 983-15 S 3-24-57 x* |
| EN2997SB2461x* | 983-15 S 3-24-61 x* |
| EN2997SB2842x* | 983-15 S 3-28-42 x* |

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**5. RECEPTACLE JAM-NUT** **EN2997-015 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEB0803x* | 983-15 SE 3-08-03 x*-A1499 |
| EN2997SEB0806x* | 983-15 SE 3-08-06 x*-A1499 |
| EN2997SEB0898x* | 983-15 SE 3-08-98 x*-A1499 |
| EN2997SEB1005x* | 983-15 SE 3-10-05 x*-A1499 |
| EN2997SEB1006x* | 983-15 SE 3-10-06 x*-A1499 |
| EN2997SEB1012x* | 983-15 SE 3-10-12 x*-A1499 |
| EN2997SEB1203x* | 983-15 SE 3-12-03 x*-A1499 |
| EN2997SEB1212x* | 983-15 SE 3-12-12 x*-A1499 |
| EN2997SEB1221x* | 983-15 SE 3-12-21 x*-A1499 |
| EN2997SEB1404x* | 983-15 SE 3-14-04 x*-A1499 |
| EN2997SEB1407x* | 983-15 SE 3-14-07 x*-A1499 |
| EN2997SEB1412x* | 983-15 SE 3-14-12 x*-A1499 |
| EN2997SEB1415x* | 983-15 SE 3-14-15 x*-A1499 |
| EN2997SEB1610x* | 983-15 SE 3-16-10 x*-A1499 |
| EN2997SEB1624x* | 983-15 SE 3-16-24 x*-A1499 |
| EN2997SEB1808x* | 983-15 SE 3-18-08 x*-A1499 |
| EN2997SEB1814x* | 983-15 SE 3-18-14 x*-A1499 |
| EN2997SEB1831x* | 983-15 SE 3-18-31 x*-A1499 |
| EN2997SEB2016x* | 983-15 SE 3-20-16 x*-A1499 |
| EN2997SEB2025x* | 983-15 SE 3-20-25 x*-A1499 |
| EN2997SEB2028x* | 983-15 SE 3-20-28 x*-A1499 |
| EN2997SEB2039x* | 983-15 SE 3-20-39 x*-A1499 |
| EN2997SEB2041x* | 983-15 SE 3-20-41 x*-A1499 |
| EN2997SEB2212x* | 983-15 SE 3-22-12 x*-A1499 |
| EN2997SEB2219x* | 983-15 SE 3-22-19 x*-A1499 |
| EN2997SEB2230x* | 983-15 SE 3-22-30 x*-A1499 |
| EN2997SEB2232x* | 983-15 SE 3-22-32 x*-A1499 |
| EN2997SEB2239x* | 983-15 SE 3-22-39 x*-A1499 |
| EN2997SEB2255x* | 983-15 SE 3-22-55 x*-A1499 |
| EN2997SEB2430x* | 983-15 SE 3-24-30 x*-A1499 |
| EN2997SEB2443x* | 983-15 SE 3-24-43 x*-A1499 |
| EN2997SEB2457x* | 983-15 SE 3-24-57 x*-A1499 |
| EN2997SEB2461x* | 983-15 SE 3-24-61 x*-A1499 |
| EN2997SEB2842x* | 983-15 SE 3-28-42 x*-A1499 |

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**6. RECEPTACLE JAM-NUT** **EN2997-015 Class SV**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SVB0803x* | 983-15 SV 3-08-03 x* |
| EN2997SVB0806x* | 983-15 SV 3-08-06 x* |
| EN2997SVB0898x* | 983-15 SV 3-08-98 x* |
| EN2997SVB1005x* | 983-15 SV 3-10-05 x* |
| EN2997SVB1006x* | 983-15 SV 3-10-06 x* |
| EN2997SVB1012x* | 983-15 SV 3-10-12 x* |
| EN2997SVB1203x* | 983-15 SV 3-12-03 x* |
| EN2997SVB1212x* | 983-15 SV 3-12-12 x* |
| EN2997SVB1221x* | 983-15 SV 3-12-21 x* |
| EN2997SVB1404x* | 983-15 SV 3-14-04 x* |
| EN2997SVB1407x* | 983-15 SV 3-14-07 x* |
| EN2997SVB1412x* | 983-15 SV 3-14-12 x* |
| EN2997SVB1415x* | 983-15 SV 3-14-15 x* |
| EN2997SVB1610x* | 983-15 SV 3-16-10 x* |
| EN2997SVB1624x* | 983-15 SV 3-16-24 x* |
| EN2997SVB1808x* | 983-15 SV 3-18-08 x* |
| EN2997SVB1814x* | 983-15 SV 3-18-14 x* |
| EN2997SVB1831x* | 983-15 SV 3-18-31 x* |
| EN2997SVB2016x* | 983-15 SV 3-20-16 x* |
| EN2997SVB2025x* | 983-15 SV 3-20-25 x* |
| EN2997SVB2028x* | 983-15 SV 3-20-28 x* |
| EN2997SVB2039x* | 983-15 SV 3-20-39 x* |
| EN2997SVB2041x* | 983-15 SV 3-20-41 x* |
| EN2997SVB2212x* | 983-15 SV 3-22-12 x* |
| EN2997SVB2219x* | 983-15 SV 3-22-19 x* |
| EN2997SVB2230x* | 983-15 SV 3-22-30 x* |
| EN2997SVB2232x* | 983-15 SV 3-22-32 x* |
| EN2997SVB2239x* | 983-15 SV 3-22-39 x* |
| EN2997SVB2255x* | 983-15 SV 3-22-55 x* |
| EN2997SVB2430x* | 983-15 SV 3-24-30 x* |
| EN2997SVB2443x* | 983-15 SV 3-24-43 x* |
| EN2997SVB2457x* | 983-15 SV 3-24-57 x* |
| EN2997SVB2461x* | 983-15 SV 3-24-61 x* |
| EN2997SVB2842x* | 983-15 SV 3-28-42 x* |

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**7. PLUG** **EN2997-016 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SC0803x* | 983-15 S 7-08-03 x* |
| EN2997SC0806x* | 983-15 S 7-08-06 x* |
| EN2997SC0898x* | 983-15 S 7-08-98 x* |
| EN2997SC1005x* | 983-15 S 7-10-05 x* |
| EN2997SC1006x* | 983-15 S 7-10-06 x* |
| EN2997SC1012x* | 983-15 S 7-10-12 x* |
| EN2997SC1203x* | 983-15 S 7-12-03 x* |
| EN2997SC1212x* | 983-15 S 7-12-12 x* |
| EN2997SC1221x* | 983-15 S 7-12-21 x* |
| EN2997SC1404x* | 983-15 S 7-14-04 x* |
| EN2997SC1407x* | 983-15 S 7-14-07 x* |
| EN2997SC1412x* | 983-15 S 7-14-12 x* |
| EN2997SC1415x* | 983-15 S 7-14-15 x* |
| EN2997SC1610x* | 983-15 S 7-16-10 x* |
| EN2997SC1624x* | 983-15 S 7-16-24 x* |
| EN2997SC1808x* | 983-15 S 7-18-08 x* |
| EN2997SC1814x* | 983-15 S 7-18-14 x* |
| EN2997SC1831x* | 983-15 S 7-18-31 x* |
| EN2997SC2016x* | 983-15 S 7-20-16 x* |
| EN2997SC2025x* | 983-15 S 7-20-25 x* |
| EN2997SC2028x* | 983-15 S 7-20-28 x* |
| EN2997SC2039x* | 983-15 S 7-20-39 x* |
| EN2997SC2041x* | 983-15 S 7-20-41 x* |
| EN2997SC2212x* | 983-15 S 7-22-12 x* |
| EN2997SC2219x* | 983-15 S 7-22-19 x* |
| EN2997SC2230x* | 983-15 S 7-22-30 x* |
| EN2997SC2232x* | 983-15 S 7-22-32 x* |
| EN2997SC2239x* | 983-15 S 7-22-39 x* |
| EN2997SC2255x* | 983-15 S 7-22-55 x* |
| EN2997SC2430x* | 983-15 S 7-24-30 x* |
| EN2997SC2443x* | 983-15 S 7-24-43 x* |
| EN2997SC2457x* | 983-15 S 7-24-57 x* |
| EN2997SC2461x* | 983-15 S 7-24-61 x* |
| EN2997SC2842x* | 983-15 S 7-28-42 x* |

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**8. PLUG** **EN2997-016 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEC0803x* | 983-15 SE 7-08-03 x*-A1499 |
| EN2997SEC0806x* | 983-15 SE 7-08-06 x*-A1499 |
| EN2997SEC0898x* | 983-15 SE 7-08-98 x*-A1499 |
| EN2997SEC1005x* | 983-15 SE 7-10-05 x*-A1499 |
| EN2997SEC1006x* | 983-15 SE 7-10-06 x*-A1499 |
| EN2997SEC1012x* | 983-15 SE 7-10-12 x*-A1499 |
| EN2997SEC1203x* | 983-15 SE 7-12-03 x*-A1499 |
| EN2997SEC1212x* | 983-15 SE 7-12-12 x*-A1499 |
| EN2997SEC1221x* | 983-15 SE 7-12-21 x*-A1499 |
| EN2997SEC1404x* | 983-15 SE 7-14-04 x*-A1499 |
| EN2997SEC1407x* | 983-15 SE 7-14-07 x*-A1499 |
| EN2997SEC1412x* | 983-15 SE 7-14-12 x*-A1499 |
| EN2997SEC1415x* | 983-15 SE 7-14-15 x*-A1499 |
| EN2997SEC1610x* | 983-15 SE 7-16-10 x*-A1499 |
| EN2997SEC1624x* | 983-15 SE 7-16-24 x*-A1499 |
| EN2997SEC1808x* | 983-15 SE 7-18-08 x*-A1499 |
| EN2997SEC1814x* | 983-15 SE 7-18-14 x*-A1499 |
| EN2997SEC1831x* | 983-15 SE 7-18-31 x*-A1499 |
| EN2997SEC2016x* | 983-15 SE 7-20-16 x*-A1499 |
| EN2997SEC2025x* | 983-15 SE 7-20-25 x*-A1499 |
| EN2997SEC2028x* | 983-15 SE 7-20-28 x*-A1499 |
| EN2997SEC2039x* | 983-15 SE 7-20-39 x*-A1499 |
| EN2997SEC2041x* | 983-15 SE 7-20-41 x*-A1499 |
| EN2997SEC2212x* | 983-15 SE 7-22-12 x*-A1499 |
| EN2997SEC2219x* | 983-15 SE 7-22-19 x*-A1499 |
| EN2997SEC2230x* | 983-15 SE 7-22-30 x*-A1499 |
| EN2997SEC2232x* | 983-15 SE 7-22-32 x*-A1499 |
| EN2997SEC2239x* | 983-15 SE 7-22-39 x*-A1499 |
| EN2997SEC2255x* | 983-15 SE 7-22-55 x*-A1499 |
| EN2997SEC2430x* | 983-15 SE 7-24-30 x*-A1499 |
| EN2997SEC2443x* | 983-15 SE 7-24-43 x*-A1499 |
| EN2997SEC2457x* | 983-15 SE 7-24-57 x*-A1499 |
| EN2997SEC2461x* | 983-15 SE 7-24-61 x*-A1499 |
| EN2997SEC2842x* | 983-15 SE 7-28-42 x*-A1499 |

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**9. PLUG** **EN2997-016 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KC0803x* | 983-15 K 7-08-03 x* |
| EN2997KC0806x* | 983-15 K 7-08-06 x* |
| EN2997KC0898x* | 983-15 K 7-08-98 x* |
| EN2997KC1005x* | 983-15 K 7-10-05 x* |
| EN2997KC1006x* | 983-15 K 7-10-06 x* |
| EN2997KC1012x* | 983-15 K 7-10-12 x* |
| EN2997KC1203x* | 983-15 K 7-12-03 x* |
| EN2997KC1212x* | 983-15 K 7-12-12 x* |
| EN2997KC1221x* | 983-15 K 7-12-21 x* |
| EN2997KC1404x* | 983-15 K 7-14-04 x* |
| EN2997KC1407x* | 983-15 K 7-14-07 x* |
| EN2997KC1412x* | 983-15 K 7-14-12 x* |
| EN2997KC1415x* | 983-15 K 7-14-15 x* |
| EN2997KC1610x* | 983-15 K 7-16-10 x* |
| EN2997KC1624x* | 983-15 K 7-16-24 x* |
| EN2997KC1808x* | 983-15 K 7-18-08 x* |
| EN2997KC1814x* | 983-15 K 7-18-14 x* |
| EN2997KC1831x* | 983-15 K 7-18-31 x* |
| EN2997KC2016x* | 983-15 K 7-20-16 x* |
| EN2997KC2025x* | 983-15 K 7-20-25 x* |
| EN2997KC2028x* | 983-15 K 7-20-28 x* |
| EN2997KC2039x* | 983-15 K 7-20-39 x* |
| EN2997KC2041x* | 983-15 K 7-20-41 x* |
| EN2997KC2212x* | 983-15 K 7-22-12 x* |
| EN2997KC2219x* | 983-15 K 7-22-19 x* |
| EN2997KC2230x* | 983-15 K 7-22-30 x* |
| EN2997KC2232x* | 983-15 K 7-22-32 x* |
| EN2997KC2239x* | 983-15 K 7-22-39 x* |
| EN2997KC2255x* | 983-15 K 7-22-55 x* |
| EN2997KC2430x* | 983-15 K 7-24-30 x* |
| EN2997KC2443x* | 983-15 K 7-24-43 x* |
| EN2997KC2457x* | 983-15 K 7-24-57 x* |
| EN2997KC2461x* | 983-15 K 7-24-61 x* |
| EN2997KC2842x* | 983-15 K 7-28-42 x* |

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**10. PLUG** **EN2997-016 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KEC0803x* | 983-15 KE 7-08-03 x*-A1499 |
| EN2997KEC0806x* | 983-15 KE 7-08-06 x*-A1499 |
| EN2997KEC0898x* | 983-15 KE 7-08-98 x*-A1499 |
| EN2997KEC1005x* | 983-15 KE 7-10-05 x*-A1499 |
| EN2997KEC1006x* | 983-15 KE 7-10-06 x*-A1499 |
| EN2997KEC1012x* | 983-15 KE 7-10-12 x*-A1499 |
| EN2997KEC1203x* | 983-15 KE 7-12-03 x*-A1499 |
| EN2997KEC1212x* | 983-15 KE 7-12-12 x*-A1499 |
| EN2997KEC1221x* | 983-15 KE 7-12-21 x*-A1499 |
| EN2997KEC1404x* | 983-15 KE 7-14-04 x*-A1499 |
| EN2997KEC1407x* | 983-15 KE 7-14-07 x*-A1499 |
| EN2997KEC1412x* | 983-15 KE 7-14-12 x*-A1499 |
| EN2997KEC1415x* | 983-15 KE 7-14-15 x*-A1499 |
| EN2997KEC1610x* | 983-15 KE 7-16-10 x*-A1499 |
| EN2997KEC1624x* | 983-15 KE 7-16-24 x*-A1499 |
| EN2997KEC1808x* | 983-15 KE 7-18-08 x*-A1499 |
| EN2997KEC1814x* | 983-15 KE 7-18-14 x*-A1499 |
| EN2997KEC1831x* | 983-15 KE 7-18-31 x*-A1499 |
| EN2997KEC2016x* | 983-15 KE 7-20-16 x*-A1499 |
| EN2997KEC2025x* | 983-15 KE 7-20-25 x*-A1499 |
| EN2997KEC2028x* | 983-15 KE 7-20-28 x*-A1499 |
| EN2997KEC2039x* | 983-15 KE 7-20-39 x*-A1499 |
| EN2997KEC2041x* | 983-15 KE 7-20-41 x*-A1499 |
| EN2997KEC2212x* | 983-15 KE 7-22-12 x*-A1499 |
| EN2997KEC2219x* | 983-15 KE 7-22-19 x*-A1499 |
| EN2997KEC2230x* | 983-15 KE 7-22-30 x*-A1499 |
| EN2997KEC2232x* | 983-15 KE 7-22-32 x*-A1499 |
| EN2997KEC2239x* | 983-15 KE 7-22-39 x*-A1499 |
| EN2997KEC2255x* | 983-15 KE 7-22-55 x*-A1499 |
| EN2997KEC2430x* | 983-15 KE 7-24-30 x*-A1499 |
| EN2997KEC2443x* | 983-15 KE 7-24-43 x*-A1499 |
| EN2997KEC2457x* | 983-15 KE 7-24-57 x*-A1499 |
| EN2997KEC2461x* | 983-15 KE 7-24-61 x*-A1499 |
| EN2997KEC2842x* | 983-15 KE 7-28-42 x*-A1499 |

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**11. PLUG** **EN2997-016 Class KV**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KVC0803x* | 983-15 KV 7-08-03 x* |
| EN2997KVC0806x* | 983-15 KV 7-08-06 x* |
| EN2997KVC0898x* | 983-15 KV 7-08-98 x* |
| EN2997KVC1005x* | 983-15 KV 7-10-05 x* |
| EN2997KVC1006x* | 983-15 KV 7-10-06 x* |
| EN2997KVC1012x* | 983-15 KV 7-10-12 x* |
| EN2997KVC1203x* | 983-15 KV 7-12-03 x* |
| EN2997KVC1212x* | 983-15 KV 7-12-12 x* |
| EN2997KVC1221x* | 983-15 KV 7-12-21 x* |
| EN2997KVC1404x* | 983-15 KV 7-14-04 x* |
| EN2997KVC1407x* | 983-15 KV 7-14-07 x* |
| EN2997KVC1412x* | 983-15 KV 7-14-12 x* |
| EN2997KVC1415x* | 983-15 KV 7-14-15 x* |
| EN2997KVC1610x* | 983-15 KV 7-16-10 x* |
| EN2997KVC1624x* | 983-15 KV 7-16-24 x* |
| EN2997KVC1808x* | 983-15 KV 7-18-08 x* |
| EN2997KVC1814x* | 983-15 KV 7-18-14 x* |
| EN2997KVC1831x* | 983-15 KV 7-18-31 x* |
| EN2997KVC2016x* | 983-15 KV 7-20-16 x* |
| EN2997KVC2025x* | 983-15 KV 7-20-25 x* |
| EN2997KVC2028x* | 983-15 KV 7-20-28 x* |
| EN2997KVC2039x* | 983-15 KV 7-20-39 x* |
| EN2997KVC2041x* | 983-15 KV 7-20-41 x* |
| EN2997KVC2212x* | 983-15 KV 7-22-12 x* |
| EN2997KVC2219x* | 983-15 KV 7-22-19 x* |
| EN2997KVC2230x* | 983-15 KV 7-22-30 x* |
| EN2997KVC2232x* | 983-15 KV 7-22-32 x* |
| EN2997KVC2239x* | 983-15 KV 7-22-39 x* |
| EN2997KVC2255x* | 983-15 KV 7-22-55 x* |
| EN2997KVC2430x* | 983-15 KV 7-24-30 x* |
| EN2997KVC2443x* | 983-15 KV 7-24-43 x* |
| EN2997KVC2457x* | 983-15 KV 7-24-57 x* |
| EN2997KVC2461x* | 983-15 KV 7-24-61 x* |
| EN2997KVC2842x* | 983-15 KV 7-28-42 x* |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 248**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-<br>See Appendix for the Qualified part number list | MBR Qualification Report of 2012-01-24<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 14/09/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 63 70 18*

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## PQ 248 - Appendix 1 for the Qualified part number list

**2. RECEPTACLE SQUARE FLANGE EN2997-014 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEA0803x* | 983-15 SE 2-08-03 x*-A1499 |
| EN2997SEA0806x* | 983-15 SE 2-08-06 x*-A1499 |
| EN2997SEA0898x* | 983-15 SE 2-08-98 x*-A1499 |
| EN2997SEA1005x* | 983-15 SE 2-10-05 x*-A1499 |
| EN2997SEA1006x* | 983-15 SE 2-10-06 x*-A1499 |
| EN2997SEA1012x* | 983-15 SE 2-10-12 x*-A1499 |
| EN2997SEA1203x* | 983-15 SE 2-12-03 x*-A1499 |
| EN2997SEA1212x* | 983-15 SE 2-12-12 x*-A1499 |
| EN2997SEA1221x* | 983-15 SE 2-12-21 x*-A1499 |
| EN2997SEA1404x* | 983-15 SE 2-14-04 x*-A1499 |
| EN2997SEA1407x* | 983-15 SE 2-14-07 x*-A1499 |
| EN2997SEA1412x* | 983-15 SE 2-14-12 x*-A1499 |
| EN2997SEA1415x* | 983-15 SE 2-14-15 x*-A1499 |
| EN2997SEA1610x* | 983-15 SE 2-16-10 x*-A1499 |
| EN2997SEA1624x* | 983-15 SE 2-16-24 x*-A1499 |
| EN2997SEA1808x* | 983-15 SE 2-18-08 x*-A1499 |
| EN2997SEA1814x* | 983-15 SE 2-18-14 x*-A1499 |
| EN2997SEA1831x* | 983-15 SE 2-18-31 x*-A1499 |
| EN2997SEA2016x* | 983-15 SE 2-20-16 x*-A1499 |
| EN2997SEA2025x* | 983-15 SE 2-20-25 x*-A1499 |
| EN2997SEA2028x* | 983-15 SE 2-20-28 x*-A1499 |
| EN2997SEA2039x* | 983-15 SE 2-20-39 x*-A1499 |
| EN2997SEA2041x* | 983-15 SE 2-20-41 x*-A1499 |
| EN2997SEA2212x* | 983-15 SE 2-22-12 x*-A1499 |
| EN2997SEA2219x* | 983-15 SE 2-22-19 x*-A1499 |
| EN2997SEA2230x* | 983-15 SE 2-22-30 x*-A1499 |
| EN2997SEA2232x* | 983-15 SE 2-22-32 x*-A1499 |
| EN2997SEA2239x* | 983-15 SE 2-22-39 x*-A1499 |
| EN2997SEA2255x* | 983-15 SE 2-22-55 x*-A1499 |
| EN2997SEA2430x* | 983-15 SE 2-24-30 x*-A1499 |
| EN2997SEA2443x* | 983-15 SE 2-24-43 x*-A1499 |
| EN2997SEA2457x* | 983-15 SE 2-24-57 x*-A1499 |
| EN2997SEA2461x* | 983-15 SE 2-24-61 x*-A1499 |
| EN2997SEA2842x* | 983-15 SE 2-28-42 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
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# PQ 248 - Appendix 1 for the Qualified part number list

## 1. RECEPTACLE SQUARE FLANGE EN2997-014 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997SA0803x* | 983-15 S 2-08-03 x* |
| EN2997SA0806x* | 983-15 S 2-08-06 x* |
| EN2997SA0898x* | 983-15 S 2-08-98 x* |
| EN2997SA1005x* | 983-15 S 2-10-05 x* |
| EN2997SA1006x* | 983-15 S 2-10-06 x* |
| EN2997SA1012x* | 983-15 S 2-10-12 x* |
| EN2997SA1203x* | 983-15 S 2-12-03 x* |
| EN2997SA1212x* | 983-15 S 2-12-12 x* |
| EN2997SA1221x* | 983-15 S 2-12-21 x* |
| EN2997SA1404x* | 983-15 S 2-14-04 x* |
| EN2997SA1407x* | 983-15 S 2-14-07 x* |
| EN2997SA1412x* | 983-15 S 2-14-12 x* |
| EN2997SA1415x* | 983-15 S 2-14-15 x* |
| EN2997SA1610x* | 983-15 S 2-16-10 x* |
| EN2997SA1624x* | 983-15 S 2-16-24 x* |
| EN2997SA1808x* | 983-15 S 2-18-08 x* |
| EN2997SA1814x* | 983-15 S 2-18-14 x* |
| EN2997SA1831x* | 983-15 S 2-18-31 x* |
| EN2997SA2016x* | 983-15 S 2-20-16 x* |
| EN2997SA2025x* | 983-15 S 2-20-25 x* |
| EN2997SA2028x* | 983-15 S 2-20-28 x* |
| EN2997SA2039x* | 983-15 S 2-20-39 x* |
| EN2997SA2041x* | 983-15 S 2-20-41 x* |
| EN2997SA2212x* | 983-15 S 2-22-12 x* |
| EN2997SA2219x* | 983-15 S 2-22-19 x* |
| EN2997SA2230x* | 983-15 S 2-22-30 x* |
| EN2997SA2232x* | 983-15 S 2-22-32 x* |
| EN2997SA2239x* | 983-15 S 2-22-39 x* |
| EN2997SA2255x* | 983-15 S 2-22-55 x* |
| EN2997SA2430x* | 983-15 S 2-24-30 x* |
| EN2997SA2443x* | 983-15 S 2-24-43 x* |
| EN2997SA2457x* | 983-15 S 2-24-57 x* |
| EN2997SA2461x* | 983-15 S 2-24-61 x* |
| EN2997SA2842x* | 983-15 S 2-28-42 x* |

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# PQ 248 - Appendix 1 for the Qualified part number list

**3. RECEPTACLE SQUARE FLANGE** **EN2997-014 Class SV**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SVA0803x* | 983-15 SV 2-08-03 x* |
| EN2997SVA0806x* | 983-15 SV 2-08-06 x* |
| EN2997SVA0898x* | 983-15 SV 2-08-98 x* |
| EN2997SVA1005x* | 983-15 SV 2-10-05 x* |
| EN2997SVA1006x* | 983-15 SV 2-10-06 x* |
| EN2997SVA1012x* | 983-15 SV 2-10-12 x* |
| EN2997SVA1203x* | 983-15 SV 2-12-03 x* |
| EN2997SVA1212x* | 983-15 SV 2-12-12 x* |
| EN2997SVA1221x* | 983-15 SV 2-12-21 x* |
| EN2997SVA1404x* | 983-15 SV 2-14-04 x* |
| EN2997SVA1407x* | 983-15 SV 2-14-07 x* |
| EN2997SVA1412x* | 983-15 SV 2-14-12 x* |
| EN2997SVA1415x* | 983-15 SV 2-14-15 x* |
| EN2997SVA1610x* | 983-15 SV 2-16-10 x* |
| EN2997SVA1624x* | 983-15 SV 2-16-24 x* |
| EN2997SVA1808x* | 983-15 SV 2-18-08 x* |
| EN2997SVA1814x* | 983-15 SV 2-18-14 x* |
| EN2997SVA1831x* | 983-15 SV 2-18-31 x* |
| EN2997SVA2016x* | 983-15 SV 2-20-16 x* |
| EN2997SVA2025x* | 983-15 SV 2-20-25 x* |
| EN2997SVA2028x* | 983-15 SV 2-20-28 x* |
| EN2997SVA2039x* | 983-15 SV 2-20-39 x* |
| EN2997SVA2041x* | 983-15 SV 2-20-41 x* |
| EN2997SVA2212x* | 983-15 SV 2-22-12 x* |
| EN2997SVA2219x* | 983-15 SV 2-22-19 x* |
| EN2997SVA2230x* | 983-15 SV 2-22-30 x* |
| EN2997SVA2232x* | 983-15 SV 2-22-32 x* |
| EN2997SVA2239x* | 983-15 SV 2-22-39 x* |
| EN2997SVA2255x* | 983-15 SV 2-22-55 x* |
| EN2997SVA2430x* | 983-15 SV 2-24-30 x* |
| EN2997SVA2443x* | 983-15 SV 2-24-43 x* |
| EN2997SVA2457x* | 983-15 SV 2-24-57 x* |
| EN2997SVA2461x* | 983-15 SV 2-24-61 x* |
| EN2997SVA2842x* | 983-15 SV 2-28-42 x* |

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## PQ 248 - Appendix 1 for the Qualified part number list

**4. RECEPTACLE JAM-NUT** **EN2997-015 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SB0803x* | 983-15 S 3-08-03 x* |
| EN2997SB0806x* | 983-15 S 3-08-06 x* |
| EN2997SB0898x* | 983-15 S 3-08-98 x* |
| EN2997SB1005x* | 983-15 S 3-10-05 x* |
| EN2997SB1006x* | 983-15 S 3-10-06 x* |
| EN2997SB1012x* | 983-15 S 3-10-12 x* |
| EN2997SB1203x* | 983-15 S 3-12-03 x* |
| EN2997SB1212x* | 983-15 S 3-12-12 x* |
| EN2997SB1221x* | 983-15 S 3-12-21 x* |
| EN2997SB1404x* | 983-15 S 3-14-04 x* |
| EN2997SB1407x* | 983-15 S 3-14-07 x* |
| EN2997SB1412x* | 983-15 S 3-14-12 x* |
| EN2997SB1415x* | 983-15 S 3-14-15 x* |
| EN2997SB1610x* | 983-15 S 3-16-10 x* |
| EN2997SB1624x* | 983-15 S 3-16-24 x* |
| EN2997SB1808x* | 983-15 S 3-18-08 x* |
| EN2997SB1814x* | 983-15 S 3-18-14 x* |
| EN2997SB1831x* | 983-15 S 3-18-31 x* |
| EN2997SB2016x* | 983-15 S 3-20-16 x* |
| EN2997SB2025x* | 983-15 S 3-20-25 x* |
| EN2997SB2028x* | 983-15 S 3-20-28 x* |
| EN2997SB2039x* | 983-15 S 3-20-39 x* |
| EN2997SB2041x* | 983-15 S 3-20-41 x* |
| EN2997SB2212x* | 983-15 S 3-22-12 x* |
| EN2997SB2219x* | 983-15 S 3-22-19 x* |
| EN2997SB2230x* | 983-15 S 3-22-30 x* |
| EN2997SB2232x* | 983-15 S 3-22-32 x* |
| EN2997SB2239x* | 983-15 S 3-22-39 x* |
| EN2997SB2255x* | 983-15 S 3-22-55 x* |
| EN2997SB2430x* | 983-15 S 3-24-30 x* |
| EN2997SB2443x* | 983-15 S 3-24-43 x* |
| EN2997SB2457x* | 983-15 S 3-24-57 x* |
| EN2997SB2461x* | 983-15 S 3-24-61 x* |
| EN2997SB2842x* | 983-15 S 3-28-42 x* |

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## PQ 248 - Appendix 1 for the Qualified part number list

**5. RECEPTACLE JAM-NUT** **EN2997-015 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEB0803x* | 983-15 SE 3-08-03 x*-A1499 |
| EN2997SEB0806x* | 983-15 SE 3-08-06 x*-A1499 |
| EN2997SEB0898x* | 983-15 SE 3-08-98 x*-A1499 |
| EN2997SEB1005x* | 983-15 SE 3-10-05 x*-A1499 |
| EN2997SEB1006x* | 983-15 SE 3-10-06 x*-A1499 |
| EN2997SEB1012x* | 983-15 SE 3-10-12 x*-A1499 |
| EN2997SEB1203x* | 983-15 SE 3-12-03 x*-A1499 |
| EN2997SEB1212x* | 983-15 SE 3-12-12 x*-A1499 |
| EN2997SEB1221x* | 983-15 SE 3-12-21 x*-A1499 |
| EN2997SEB1404x* | 983-15 SE 3-14-04 x*-A1499 |
| EN2997SEB1407x* | 983-15 SE 3-14-07 x*-A1499 |
| EN2997SEB1412x* | 983-15 SE 3-14-12 x*-A1499 |
| EN2997SEB1415x* | 983-15 SE 3-14-15 x*-A1499 |
| EN2997SEB1610x* | 983-15 SE 3-16-10 x*-A1499 |
| EN2997SEB1624x* | 983-15 SE 3-16-24 x*-A1499 |
| EN2997SEB1808x* | 983-15 SE 3-18-08 x*-A1499 |
| EN2997SEB1814x* | 983-15 SE 3-18-14 x*-A1499 |
| EN2997SEB1831x* | 983-15 SE 3-18-31 x*-A1499 |
| EN2997SEB2016x* | 983-15 SE 3-20-16 x*-A1499 |
| EN2997SEB2025x* | 983-15 SE 3-20-25 x*-A1499 |
| EN2997SEB2028x* | 983-15 SE 3-20-28 x*-A1499 |
| EN2997SEB2039x* | 983-15 SE 3-20-39 x*-A1499 |
| EN2997SEB2041x* | 983-15 SE 3-20-41 x*-A1499 |
| EN2997SEB2212x* | 983-15 SE 3-22-12 x*-A1499 |
| EN2997SEB2219x* | 983-15 SE 3-22-19 x*-A1499 |
| EN2997SEB2230x* | 983-15 SE 3-22-30 x*-A1499 |
| EN2997SEB2232x* | 983-15 SE 3-22-32 x*-A1499 |
| EN2997SEB2239x* | 983-15 SE 3-22-39 x*-A1499 |
| EN2997SEB2255x* | 983-15 SE 3-22-55 x*-A1499 |
| EN2997SEB2430x* | 983-15 SE 3-24-30 x*-A1499 |
| EN2997SEB2443x* | 983-15 SE 3-24-43 x*-A1499 |
| EN2997SEB2457x* | 983-15 SE 3-24-57 x*-A1499 |
| EN2997SEB2461x* | 983-15 SE 3-24-61 x*-A1499 |
| EN2997SEB2842x* | 983-15 SE 3-28-42 x*-A1499 |

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## PQ 248 - Appendix 1 for the Qualified part number list

**6. RECEPTACLE JAM-NUT** **EN2997-015 Class SV**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SVB0803x* | 983-15 SV 3-08-03 x* |
| EN2997SVB0806x* | 983-15 SV 3-08-06 x* |
| EN2997SVB0898x* | 983-15 SV 3-08-98 x* |
| EN2997SVB1005x* | 983-15 SV 3-10-05 x* |
| EN2997SVB1006x* | 983-15 SV 3-10-06 x* |
| EN2997SVB1012x* | 983-15 SV 3-10-12 x* |
| EN2997SVB1203x* | 983-15 SV 3-12-03 x* |
| EN2997SVB1212x* | 983-15 SV 3-12-12 x* |
| EN2997SVB1221x* | 983-15 SV 3-12-21 x* |
| EN2997SVB1404x* | 983-15 SV 3-14-04 x* |
| EN2997SVB1407x* | 983-15 SV 3-14-07 x* |
| EN2997SVB1412x* | 983-15 SV 3-14-12 x* |
| EN2997SVB1415x* | 983-15 SV 3-14-15 x* |
| EN2997SVB1610x* | 983-15 SV 3-16-10 x* |
| EN2997SVB1624x* | 983-15 SV 3-16-24 x* |
| EN2997SVB1808x* | 983-15 SV 3-18-08 x* |
| EN2997SVB1814x* | 983-15 SV 3-18-14 x* |
| EN2997SVB1831x* | 983-15 SV 3-18-31 x* |
| EN2997SVB2016x* | 983-15 SV 3-20-16 x* |
| EN2997SVB2025x* | 983-15 SV 3-20-25 x* |
| EN2997SVB2028x* | 983-15 SV 3-20-28 x* |
| EN2997SVB2039x* | 983-15 SV 3-20-39 x* |
| EN2997SVB2041x* | 983-15 SV 3-20-41 x* |
| EN2997SVB2212x* | 983-15 SV 3-22-12 x* |
| EN2997SVB2219x* | 983-15 SV 3-22-19 x* |
| EN2997SVB2230x* | 983-15 SV 3-22-30 x* |
| EN2997SVB2232x* | 983-15 SV 3-22-32 x* |
| EN2997SVB2239x* | 983-15 SV 3-22-39 x* |
| EN2997SVB2255x* | 983-15 SV 3-22-55 x* |
| EN2997SVB2430x* | 983-15 SV 3-24-30 x* |
| EN2997SVB2443x* | 983-15 SV 3-24-43 x* |
| EN2997SVB2457x* | 983-15 SV 3-24-57 x* |
| EN2997SVB2461x* | 983-15 SV 3-24-61 x* |
| EN2997SVB2842x* | 983-15 SV 3-28-42 x* |

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## PQ 248 - Appendix 1 for the Qualified part number list

**7. PLUG** **EN2997-016 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SC0803x* | 983-15 S 7-08-03 x* |
| EN2997SC0806x* | 983-15 S 7-08-06 x* |
| EN2997SC0898x* | 983-15 S 7-08-98 x* |
| EN2997SC1005x* | 983-15 S 7-10-05 x* |
| EN2997SC1006x* | 983-15 S 7-10-06 x* |
| EN2997SC1012x* | 983-15 S 7-10-12 x* |
| EN2997SC1203x* | 983-15 S 7-12-03 x* |
| EN2997SC1212x* | 983-15 S 7-12-12 x* |
| EN2997SC1221x* | 983-15 S 7-12-21 x* |
| EN2997SC1404x* | 983-15 S 7-14-04 x* |
| EN2997SC1407x* | 983-15 S 7-14-07 x* |
| EN2997SC1412x* | 983-15 S 7-14-12 x* |
| EN2997SC1415x* | 983-15 S 7-14-15 x* |
| EN2997SC1610x* | 983-15 S 7-16-10 x* |
| EN2997SC1624x* | 983-15 S 7-16-24 x* |
| EN2997SC1808x* | 983-15 S 7-18-08 x* |
| EN2997SC1814x* | 983-15 S 7-18-14 x* |
| EN2997SC1831x* | 983-15 S 7-18-31 x* |
| EN2997SC2016x* | 983-15 S 7-20-16 x* |
| EN2997SC2025x* | 983-15 S 7-20-25 x* |
| EN2997SC2028x* | 983-15 S 7-20-28 x* |
| EN2997SC2039x* | 983-15 S 7-20-39 x* |
| EN2997SC2041x* | 983-15 S 7-20-41 x* |
| EN2997SC2212x* | 983-15 S 7-22-12 x* |
| EN2997SC2219x* | 983-15 S 7-22-19 x* |
| EN2997SC2230x* | 983-15 S 7-22-30 x* |
| EN2997SC2232x* | 983-15 S 7-22-32 x* |
| EN2997SC2239x* | 983-15 S 7-22-39 x* |
| EN2997SC2255x* | 983-15 S 7-22-55 x* |
| EN2997SC2430x* | 983-15 S 7-24-30 x* |
| EN2997SC2443x* | 983-15 S 7-24-43 x* |
| EN2997SC2457x* | 983-15 S 7-24-57 x* |
| EN2997SC2461x* | 983-15 S 7-24-61 x* |
| EN2997SC2842x* | 983-15 S 7-28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## PQ 248 - Appendix 1 for the Qualified part number list

**8. PLUG** **EN2997-016 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SEC0803x* | 983-15 SE 7-08-03 x*-A1499 |
| EN2997SEC0806x* | 983-15 SE 7-08-06 x*-A1499 |
| EN2997SEC0898x* | 983-15 SE 7-08-98 x*-A1499 |
| EN2997SEC1005x* | 983-15 SE 7-10-05 x*-A1499 |
| EN2997SEC1006x* | 983-15 SE 7-10-06 x*-A1499 |
| EN2997SEC1012x* | 983-15 SE 7-10-12 x*-A1499 |
| EN2997SEC1203x* | 983-15 SE 7-12-03 x*-A1499 |
| EN2997SEC1212x* | 983-15 SE 7-12-12 x*-A1499 |
| EN2997SEC1221x* | 983-15 SE 7-12-21 x*-A1499 |
| EN2997SEC1404x* | 983-15 SE 7-14-04 x*-A1499 |
| EN2997SEC1407x* | 983-15 SE 7-14-07 x*-A1499 |
| EN2997SEC1412x* | 983-15 SE 7-14-12 x*-A1499 |
| EN2997SEC1415x* | 983-15 SE 7-14-15 x*-A1499 |
| EN2997SEC1610x* | 983-15 SE 7-16-10 x*-A1499 |
| EN2997SEC1624x* | 983-15 SE 7-16-24 x*-A1499 |
| EN2997SEC1808x* | 983-15 SE 7-18-08 x*-A1499 |
| EN2997SEC1814x* | 983-15 SE 7-18-14 x*-A1499 |
| EN2997SEC1831x* | 983-15 SE 7-18-31 x*-A1499 |
| EN2997SEC2016x* | 983-15 SE 7-20-16 x*-A1499 |
| EN2997SEC2025x* | 983-15 SE 7-20-25 x*-A1499 |
| EN2997SEC2028x* | 983-15 SE 7-20-28 x*-A1499 |
| EN2997SEC2039x* | 983-15 SE 7-20-39 x*-A1499 |
| EN2997SEC2041x* | 983-15 SE 7-20-41 x*-A1499 |
| EN2997SEC2212x* | 983-15 SE 7-22-12 x*-A1499 |
| EN2997SEC2219x* | 983-15 SE 7-22-19 x*-A1499 |
| EN2997SEC2230x* | 983-15 SE 7-22-30 x*-A1499 |
| EN2997SEC2232x* | 983-15 SE 7-22-32 x*-A1499 |
| EN2997SEC2239x* | 983-15 SE 7-22-39 x*-A1499 |
| EN2997SEC2255x* | 983-15 SE 7-22-55 x*-A1499 |
| EN2997SEC2430x* | 983-15 SE 7-24-30 x*-A1499 |
| EN2997SEC2443x* | 983-15 SE 7-24-43 x*-A1499 |
| EN2997SEC2457x* | 983-15 SE 7-24-57 x*-A1499 |
| EN2997SEC2461x* | 983-15 SE 7-24-61 x*-A1499 |
| EN2997SEC2842x* | 983-15 SE 7-28-42 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## PQ 248 - Appendix 1 for the Qualified part number list

**9. PLUG** **EN2997-016 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KC0803x* | 983-15 K 7-08-03 x* |
| EN2997KC0806x* | 983-15 K 7-08-06 x* |
| EN2997KC0898x* | 983-15 K 7-08-98 x* |
| EN2997KC1005x* | 983-15 K 7-10-05 x* |
| EN2997KC1006x* | 983-15 K 7-10-06 x* |
| EN2997KC1012x* | 983-15 K 7-10-12 x* |
| EN2997KC1203x* | 983-15 K 7-12-03 x* |
| EN2997KC1212x* | 983-15 K 7-12-12 x* |
| EN2997KC1221x* | 983-15 K 7-12-21 x* |
| EN2997KC1404x* | 983-15 K 7-14-04 x* |
| EN2997KC1407x* | 983-15 K 7-14-07 x* |
| EN2997KC1412x* | 983-15 K 7-14-12 x* |
| EN2997KC1415x* | 983-15 K 7-14-15 x* |
| EN2997KC1610x* | 983-15 K 7-16-10 x* |
| EN2997KC1624x* | 983-15 K 7-16-24 x* |
| EN2997KC1808x* | 983-15 K 7-18-08 x* |
| EN2997KC1814x* | 983-15 K 7-18-14 x* |
| EN2997KC1831x* | 983-15 K 7-18-31 x* |
| EN2997KC2016x* | 983-15 K 7-20-16 x* |
| EN2997KC2025x* | 983-15 K 7-20-25 x* |
| EN2997KC2028x* | 983-15 K 7-20-28 x* |
| EN2997KC2039x* | 983-15 K 7-20-39 x* |
| EN2997KC2041x* | 983-15 K 7-20-41 x* |
| EN2997KC2212x* | 983-15 K 7-22-12 x* |
| EN2997KC2219x* | 983-15 K 7-22-19 x* |
| EN2997KC2230x* | 983-15 K 7-22-30 x* |
| EN2997KC2232x* | 983-15 K 7-22-32 x* |
| EN2997KC2239x* | 983-15 K 7-22-39 x* |
| EN2997KC2255x* | 983-15 K 7-22-55 x* |
| EN2997KC2430x* | 983-15 K 7-24-30 x* |
| EN2997KC2443x* | 983-15 K 7-24-43 x* |
| EN2997KC2457x* | 983-15 K 7-24-57 x* |
| EN2997KC2461x* | 983-15 K 7-24-61 x* |
| EN2997KC2842x* | 983-15 K 7-28-42 x* |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## PQ 248 - Appendix 1 for the Qualified part number list

**10. PLUG** **EN2997-016 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KEC0803x* | 983-15 KE 7-08-03 x*-A1499 |
| EN2997KEC0806x* | 983-15 KE 7-08-06 x*-A1499 |
| EN2997KEC0898x* | 983-15 KE 7-08-98 x*-A1499 |
| EN2997KEC1005x* | 983-15 KE 7-10-05 x*-A1499 |
| EN2997KEC1006x* | 983-15 KE 7-10-06 x*-A1499 |
| EN2997KEC1012x* | 983-15 KE 7-10-12 x*-A1499 |
| EN2997KEC1203x* | 983-15 KE 7-12-03 x*-A1499 |
| EN2997KEC1212x* | 983-15 KE 7-12-12 x*-A1499 |
| EN2997KEC1221x* | 983-15 KE 7-12-21 x*-A1499 |
| EN2997KEC1404x* | 983-15 KE 7-14-04 x*-A1499 |
| EN2997KEC1407x* | 983-15 KE 7-14-07 x*-A1499 |
| EN2997KEC1412x* | 983-15 KE 7-14-12 x*-A1499 |
| EN2997KEC1415x* | 983-15 KE 7-14-15 x*-A1499 |
| EN2997KEC1610x* | 983-15 KE 7-16-10 x*-A1499 |
| EN2997KEC1624x* | 983-15 KE 7-16-24 x*-A1499 |
| EN2997KEC1808x* | 983-15 KE 7-18-08 x*-A1499 |
| EN2997KEC1814x* | 983-15 KE 7-18-14 x*-A1499 |
| EN2997KEC1831x* | 983-15 KE 7-18-31 x*-A1499 |
| EN2997KEC2016x* | 983-15 KE 7-20-16 x*-A1499 |
| EN2997KEC2025x* | 983-15 KE 7-20-25 x*-A1499 |
| EN2997KEC2028x* | 983-15 KE 7-20-28 x*-A1499 |
| EN2997KEC2039x* | 983-15 KE 7-20-39 x*-A1499 |
| EN2997KEC2041x* | 983-15 KE 7-20-41 x*-A1499 |
| EN2997KEC2212x* | 983-15 KE 7-22-12 x*-A1499 |
| EN2997KEC2219x* | 983-15 KE 7-22-19 x*-A1499 |
| EN2997KEC2230x* | 983-15 KE 7-22-30 x*-A1499 |
| EN2997KEC2232x* | 983-15 KE 7-22-32 x*-A1499 |
| EN2997KEC2239x* | 983-15 KE 7-22-39 x*-A1499 |
| EN2997KEC2255x* | 983-15 KE 7-22-55 x*-A1499 |
| EN2997KEC2430x* | 983-15 KE 7-24-30 x*-A1499 |
| EN2997KEC2443x* | 983-15 KE 7-24-43 x*-A1499 |
| EN2997KEC2457x* | 983-15 KE 7-24-57 x*-A1499 |
| EN2997KEC2461x* | 983-15 KE 7-24-61 x*-A1499 |
| EN2997KEC2842x* | 983-15 KE 7-28-42 x*-A1499 |

x = F, B or D; M, A or C
* = N, 6, 7, 8 or 9 for size 8
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## PQ 248 - Appendix 1 for the Qualified part number list

**11. PLUG** **EN2997-016 Class KV**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KVC0803x* | 983-15 KV 7-08-03 x* |
| EN2997KVC0806x* | 983-15 KV 7-08-06 x* |
| EN2997KVC0898x* | 983-15 KV 7-08-98 x* |
| EN2997KVC1005x* | 983-15 KV 7-10-05 x* |
| EN2997KVC1006x* | 983-15 KV 7-10-06 x* |
| EN2997KVC1012x* | 983-15 KV 7-10-12 x* |
| EN2997KVC1203x* | 983-15 KV 7-12-03 x* |
| EN2997KVC1212x* | 983-15 KV 7-12-12 x* |
| EN2997KVC1221x* | 983-15 KV 7-12-21 x* |
| EN2997KVC1404x* | 983-15 KV 7-14-04 x* |
| EN2997KVC1407x* | 983-15 KV 7-14-07 x* |
| EN2997KVC1412x* | 983-15 KV 7-14-12 x* |
| EN2997KVC1415x* | 983-15 KV 7-14-15 x* |
| EN2997KVC1610x* | 983-15 KV 7-16-10 x* |
| EN2997KVC1624x* | 983-15 KV 7-16-24 x* |
| EN2997KVC1808x* | 983-15 KV 7-18-08 x* |
| EN2997KVC1814x* | 983-15 KV 7-18-14 x* |
| EN2997KVC1831x* | 983-15 KV 7-18-31 x* |
| EN2997KVC2016x* | 983-15 KV 7-20-16 x* |
| EN2997KVC2025x* | 983-15 KV 7-20-25 x* |
| EN2997KVC2028x* | 983-15 KV 7-20-28 x* |
| EN2997KVC2039x* | 983-15 KV 7-20-39 x* |
| EN2997KVC2041x* | 983-15 KV 7-20-41 x* |
| EN2997KVC2212x* | 983-15 KV 7-22-12 x* |
| EN2997KVC2219x* | 983-15 KV 7-22-19 x* |
| EN2997KVC2230x* | 983-15 KV 7-22-30 x* |
| EN2997KVC2232x* | 983-15 KV 7-22-32 x* |
| EN2997KVC2239x* | 983-15 KV 7-22-39 x* |
| EN2997KVC2255x* | 983-15 KV 7-22-55 x* |
| EN2997KVC2430x* | 983-15 KV 7-24-30 x* |
| EN2997KVC2443x* | 983-15 KV 7-24-43 x* |
| EN2997KVC2457x* | 983-15 KV 7-24-57 x* |
| EN2997KVC2461x* | 983-15 KV 7-24-61 x* |
| EN2997KVC2842x* | 983-15 KV 7-28-42 x* |

x = F, B or D; M, A or C
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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 247**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS Technologies
Barkby Road - Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2927-050 | Report: N°182 for_SPS_ACP005<br>Form2– Issue 1_2012/07/09<br>Keith ALLEN, Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 14/09/2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 246**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-004M1616<br>EN3155-005F1616 | Report: N°023 for_Deutsch_ACP005 Form2– Issue 1_2012/02/01<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2015**

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DATE :
DATE :
DATUM :
29/08/2012

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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1150 Brussels
BELGIUM

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 245**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
Barkby Road
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN3832-060 | Report: N°154 for_SPS_ACP005 Form2– Issue 2_2012/07/09<br>Keith ALLEN, Rolls-Royce |

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**SEPTEMBER 2015**

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DATE :
DATE :
DATUM :

29/08/2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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1000 Brussels
BELGIUM

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 244**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : AXON'CABLE France
Route de Chalons en Champagne - Boîte Postale n°1
51210 Montmirail (FRANCE)

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3375-001 | EN 3375-004 Type WJ<br>EN 3375-005 Type WV<br>EN 3375-006 Type XM | QTP 2423 Issue 4 (17/03/2011),<br>PQTR D10011940_V1(06/04/2011),<br>PQTR D10011942_V1(06/04/2011)<br>and PQTR<br>D10011944_V1(06/04/2011)<br>Régis RUFFEL - AIRBUS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

SEPTEMBER 2015

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 29/08/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 243** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

CONESYS EUROPE
20 Avenue Jean Monnet
31770 Colomiers
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-005 and -007 Classes Y and YE<br>See New Appendix for the Qualified part number list | Report: N°117 for_Conesys_ACP005 Form2 – Issue 3_2012/06/18 & N°270 for_Conesys_ACP005 Form2 (ACP008) – 2014/01/30<br>Chrisitan Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2015**

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DATE :
DATE :
DATUM :

13/07/2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PQ 243 – Appendix for the Qualified part numbers list

**Square Flange Receptacle** **EN2997-005**
**Class** **Y** **200°C Continuous**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000Y0-0803M* | ⇔ | EN2997Y00803M* |
| 8000Y0-0898M* | ⇔ | EN2997Y00898M* |
| 8000Y0-1005M* | ⇔ | EN2997Y01005M* |
| 8000Y0-1006M* | ⇔ | EN2997Y01006M* |
| 8000Y0-1203M* | ⇔ | EN2997Y01203M* |
| 8000Y0-1212M* | ⇔ | EN2997Y01212M* |
| 8000Y0-1412M* | ⇔ | EN2997Y01412M* |
| 8000Y0-1610M* | ⇔ | EN2997Y01610M* |
| 8000Y0-1624M* | ⇔ | EN2997Y01624M* |
| 8000Y0-2025M* | ⇔ | EN2997Y02025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**Square Flange Receptacle** **EN2997-005**
**Class** **YE** **200°C Continuous, 260°C peak**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000YE0-0803M* | ⇔ | EN2997YE00803M* |
| 8000YE0-0898M* | ⇔ | EN2997YE00898M* |
| 8000YE0-1005M* | ⇔ | EN2997YE01005M* |
| 8000YE0-1006M* | ⇔ | EN2997YE01006M* |
| 8000YE0-1203M* | ⇔ | EN2997YE01203M* |
| 8000YE0-1212M* | ⇔ | EN2997YE01212M* |
| 8000YE0-1412M* | ⇔ | EN2997YE01412M* |
| 8000YE0-1610M* | ⇔ | EN2997YE01610M* |
| 8000YE0-1624M* | ⇔ | EN2997YE01624M* |
| 8000YE0-2025M* | ⇔ | EN2997YE02025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 243 – Appendix for the Qualified part numbers list

**Round Flange Receptacle** **EN2997-007**
**Class** **Y** **200°C Continuous**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000Y1-0803M* | ⇔ | EN2997Y10803M* |
| 8000Y1-0898M* | ⇔ | EN2997Y10898M* |
| 8000Y1-1005M* | ⇔ | EN2997Y11005M* |
| 8000Y1-1006M* | ⇔ | EN2997Y11006M* |
| 8000Y1-1203M* | ⇔ | EN2997Y11203M* |
| 8000Y1-1212M* | ⇔ | EN2997Y11212M* |
| 8000Y1-1412M* | ⇔ | EN2997Y11412M* |
| 8000Y1-1610M* | ⇔ | EN2997Y11610M* |
| 8000Y1-1624M* | ⇔ | EN2997Y11624M* |
| 8000Y1-2025M* | ⇔ | EN2997Y12025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**Round Flange Receptacle** **EN2997-007**
**Class** **YE** **200°C Continuous, 260°C peak**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000YE1-0803M* | ⇔ | EN2997YE10803M* |
| 8000YE1-0898M* | ⇔ | EN2997YE10898M* |
| 8000YE1-1005M* | ⇔ | EN2997YE11005M* |
| 8000YE1-1006M* | ⇔ | EN2997YE11006M* |
| 8000YE1-1203M* | ⇔ | EN2997YE11203M* |
| 8000YE1-1212M* | ⇔ | EN2997YE11212M* |
| 8000YE1-1412M* | ⇔ | EN2997YE11412M* |
| 8000YE1-1610M* | ⇔ | EN2997YE11610M* |
| 8000YE1-1624M* | ⇔ | EN2997YE11624M* |
| 8000YE1-2025M* | ⇔ | EN2997YE12025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 243 – Appendix for the Qualified part numbers list

## ACP 008 Manufacturing Change Request

## Additional Layout 14-17 / 18-14 & 18-31

**Square Flange Receptacle** — **EN2997-005**

**Class** **Y** — **200°C Continuous**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000Y0-1407M* | ⇔ | EN2997Y01407M* |
| 8000Y0-1814M* | ⇔ | EN2997Y01814M* |
| 8000Y0-1831M* | ⇔ | EN2997Y01831M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**Square Flange Receptacle** — **EN2997-005**

**Class** **YE** — **200°C Continuous, 260°C peak**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000YE0-1407M* | ⇔ | EN2997YE01407M* |
| 8000YE0-1814M* | ⇔ | EN2997YE01814M* |
| 8000YE0-1831M* | ⇔ | EN2997YE01831M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**Round Flange Receptacle** — **EN2997-007**

**Class** **Y** — **200°C Continuous**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000Y1-1407M* | ⇔ | EN2997Y11407M* |
| 8000Y1-1814M* | ⇔ | EN2997Y11814M* |
| 8000Y1-1831M* | ⇔ | EN2997Y11831M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**Round Flange Receptacle** — **EN2997-007**

**Class** **YE** — **200°C Continuous, 260°C peak**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000YE1-1407M* | ⇔ | EN2997YE11407M* |
| 8000YE1-1814M* | ⇔ | EN2997YE11814M* |
| 8000YE1-1831M* | ⇔ | EN2997YE11831M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 243**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : CONESYS EUROPE
20 Avenue Jean Monnet
31770 Colomiers
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-005 and -007<br>Classes Y and YE<br>See Appendix for the Qualified part number list | Report: N°117<br>for_Conesys_ACP005 Form2–<br>Issue 3_2012/06/18<br>Chrisitan Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 13/07/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PQ 243 – Appendix for the Qualified part number list

**Round Flange Receptacle** **EN2997-007**
**Class** **Y** **200°C Continuous**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000Y1-0803M* | ⇔ | EN2997Y10803M* |
| 8000Y1-0898M* | ⇔ | EN2997Y10898M* |
| 8000Y1-1005M* | ⇔ | EN2997Y11005M* |
| 8000Y1-1006M* | ⇔ | EN2997Y11006M* |
| 8000Y1-1203M* | ⇔ | EN2997Y11203M* |
| 8000Y1-1212M* | ⇔ | EN2997Y11212M* |
| 8000Y1-1412M* | ⇔ | EN2997Y11412M* |
| 8000Y1-1610M* | ⇔ | EN2997Y11610M* |
| 8000Y1-1624M* | ⇔ | EN2997Y11624M* |
| 8000Y1-2025M* | ⇔ | EN2997Y12025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**Round Flange Receptacle** **EN2997-007**
**Class** **YE** **200°C Continuous, 260°C peak**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000YE1-0803M* | ⇔ | EN2997YE10803M* |
| 8000YE1-0898M* | ⇔ | EN2997YE10898M* |
| 8000YE1-1005M* | ⇔ | EN2997YE11005M* |
| 8000YE1-1006M* | ⇔ | EN2997YE11006M* |
| 8000YE1-1203M* | ⇔ | EN2997YE11203M* |
| 8000YE1-1212M* | ⇔ | EN2997YE11212M* |
| 8000YE1-1412M* | ⇔ | EN2997YE11412M* |
| 8000YE1-1610M* | ⇔ | EN2997YE11610M* |
| 8000YE1-1624M* | ⇔ | EN2997YE11624M* |
| 8000YE1-2025M* | ⇔ | EN2997YE12025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 243 – Appendix for the Qualified part number list

**Square Flange Receptacle** **EN2997-005**
**Class Y** **200°C Continuous**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000Y0-0803M* | ⇔ | EN2997Y00803M* |
| 8000Y0-0898M* | ⇔ | EN2997Y00898M* |
| 8000Y0-1005M* | ⇔ | EN2997Y01005M* |
| 8000Y0-1006M* | ⇔ | EN2997Y01006M* |
| 8000Y0-1203M* | ⇔ | EN2997Y01203M* |
| 8000Y0-1212M* | ⇔ | EN2997Y01212M* |
| 8000Y0-1412M* | ⇔ | EN2997Y01412M* |
| 8000Y0-1610M* | ⇔ | EN2997Y01610M* |
| 8000Y0-1624M* | ⇔ | EN2997Y01624M* |
| 8000Y0-2025M* | ⇔ | EN2997Y02025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**Square Flange Receptacle** **EN2997-005**
**Class YE** **200°C Continuous, 260°C peak**

| Conesys Europe P/N | | Specification P/N |
|---|---|---|
| 8000YE0-0803M* | ⇔ | EN2997YE00803M* |
| 8000YE0-0898M* | ⇔ | EN2997YE00898M* |
| 8000YE0-1005M* | ⇔ | EN2997YE01005M* |
| 8000YE0-1006M* | ⇔ | EN2997YE01006M* |
| 8000YE0-1203M* | ⇔ | EN2997YE01203M* |
| 8000YE0-1212M* | ⇔ | EN2997YE01212M* |
| 8000YE0-1412M* | ⇔ | EN2997YE01412M* |
| 8000YE0-1610M* | ⇔ | EN2997YE01610M* |
| 8000YE0-1624M* | ⇔ | EN2997YE01624M* |
| 8000YE0-2025M* | ⇔ | EN2997YE02025M* |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 242**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
Barkby Road
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3686-050 | Report: N°150 for_SPS_ACP005 Form2– Issue 3_2012/06/18<br>Keith ALLEN, Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13/07/2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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BELGIUM

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Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 241**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Alcoa Fastening Systems Toulouse Operations
Boulevard du Grand Castaing
31128 Portet sur Garonne
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3686-050 | Report: N°106 for_Alcoa_ACP005 Form2– 2012/02/14<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

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DATE :
DATE :
DATUM :
13/07/2012

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 240**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9154 | EN2874-050,-060, -080, -100, EN3444-050, -060, -080, -100, and EN4134-060, -120 | Report: N°79-12 for_LISI_ACP005 Form2– 2012/05/30<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
13/07/2012

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 239**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

HIREL CONNECTORS INC.
760 West Wharton Drive
Claremont
California, 91711 USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2997-001 | EN2997-005, -006 and -007 models 0,1 and 7<br>Classes Y & YE<br>See Appendix for the Qualified part number list | MBR Report ACP005 – Form 2–<br>Hirel Connectors Inc - EN2997<br>Classes Y and YE<br>Issue Date 2012-06-06<br>M. Christian Mazelle |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

14/09/2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

| HiRel CONNECTORS INC. | | QTR10405 |
|---|---|---|
| **LIST OF PART NUMBERS FOR QUALIFICATION HERMETIC CLASS Y** | | |
| **EN2997-005 MODEL 0 SQUARE FLANGE** | **EN2997-006 MODEL 7 JAM NUT MOUNTED** | **EN2997-007 MODEL 1 ROUND FLANGE** |
| EN2997Y00803M* | EN2997Y70803M* | EN2997Y10803M* |
| EN2997Y00806M* | EN2997Y70806M* | EN2997Y10806M* |
| EN2997Y00898M* | EN2997Y70898M* | EN2997Y10898M* |
| EN2997Y01002M* | EN2997Y71002M* | EN2997Y11002M* |
| EN2997Y01005M* | EN2997Y71005M* | EN2997Y11005M* |
| EN2997Y01006M* | EN2997Y71006M* | EN2997Y11006M* |
| EN2997Y01012M* | EN2997Y71012M* | EN2997Y11012M* |
| EN2997Y01203M* | EN2997Y71203M* | EN2997Y11203M* |
| EN2997Y01212M* | EN2997Y71212M* | EN2997Y11212M* |
| EN2997Y01221M* | EN2997Y71221M* | EN2997Y11221M* |
| EN2997Y01404M* | EN2997Y71404M* | EN2997Y11404M* |
| EN2997Y01407M* | EN2997Y71407M* | EN2997Y11407M* |
| EN2997Y01412M* | EN2997Y71412M* | EN2997Y11412M* |
| EN2997Y01415M* | EN2997Y71415M* | EN2997Y11415M* |
| EN2997Y01610M* | EN2997Y71610M* | EN2997Y11610M* |
| EN2997Y01624M* | EN2997Y71624M* | EN2997Y11624M* |
| EN2997Y01808M* | EN2997Y71808M* | EN2997Y11808M* |
| EN2997Y01814M* | EN2997Y71814M* | EN2997Y11814M* |
| EN2997Y01831M* | EN2997Y71831M* | EN2997Y11831M* |

| *Polarization Positions | Housing (shell) Sizes | | | | | |
|---|---|---|---|---|---|---|
| N | 08 | 10 | 12 | 14 | 16 | 18 |
| 6 | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * |
| Y | * | * | * | * | * | * |

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| HiRel CONNECTORS INC. | | QTR10405 |
|---|---|---|
| **LIST OF PART NUMBERS FOR QUALIFICATION HERMETIC CLASS YE** | | |
| **EN2997-005 MODEL 0 SQUARE FLANGE** | **EN2997-006 MODEL 7 JAM NUT MOUNTED** | **EN2997-007 MODEL 1 ROUND FLANGE** |
| EN2997YE00803M* | EN2997YE70803M* | EN2997YE10803M* |
| EN2997YE00806M* | EN2997YE70806M* | EN2997YE10806M* |
| EN2997YE00898M* | EN2997YE70898M* | EN2997YE10898M* |
| EN2997YE01002M* | EN2997YE71002M* | EN2997YE11002M* |
| EN2997YE01005M* | EN2997YE71005M* | EN2997YE11005M* |
| EN2997YE01006M* | EN2997YE71006M* | EN2997YE11006M* |
| EN2997YE01012M* | EN2997YE71012M* | EN2997YE11012M* |
| EN2997YE01203M* | EN2997YE71203M* | EN2997YE11203M* |
| EN2997YE01212M* | EN2997YE71212M* | EN2997YE11212M* |
| EN2997YE01221M* | EN2997YE71221M* | EN2997YE11221M* |
| EN2997YE01404M* | EN2997YE71404M* | EN2997YE11404M* |
| EN2997YE01407M* | EN2997YE71407M* | EN2997YE11407M* |
| EN2997YE01412M* | EN2997YE71412M* | EN2997YE11412M* |
| EN2997YE01415M* | EN2997YE71415M* | EN2997YE11415M* |
| EN2997YE01610M* | EN2997YE71610M* | EN2997YE11610M* |
| EN2997YE01624M* | EN2997YE71624M* | EN2997YE11624M* |
| EN2997YE01808M* | EN2997YE71808M* | EN2997YE11808M* |
| EN2997YE01814M* | EN2997YE71814M* | EN2997YE11814M* |
| EN2997YE01831M* | EN2997YE71831M* | EN2997YE11831M* |

| *Polarization Positions | Housing (shell) Sizes | | | | | |
|---|---|---|---|---|---|---|
| N | 08 | 10 | 12 | 14 | 16 | 18 |
| 6 | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * |
| Y | * | * | * | * | * | * |

AECMA-CERT N° 0006 The European Association of Aerospace Industries - Certification -

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 238**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO Technologies
Le Jouguet
22190 Plérin
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3299 | EN4396-030 | Report: N°113 _for_LISI_ACP005 Form2 – 2012/04/02<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

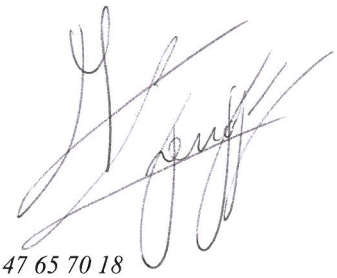
**July 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 03/07/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 237**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Alcoa Fastening Systems Toulouse Operations
Boulevard du Grand Castaing
31128 Portet sur garonne
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2582 | EN3294-050 | Report:<br>N°129_for_ALCOA_ACP005<br>Form2 – 2012/01/10<br>Michel CAPBLANCQ,<br>TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 03/07/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

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1150 Brussels
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Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 236**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | See Appendix for the Qualified part number list | Report: N°79-11_for_LISI_ACP005 Form2 – 2012/03/5<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

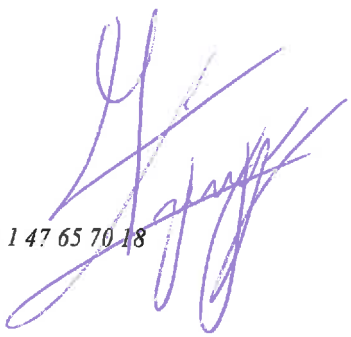
**July 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 29 June 2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

# PQ 236 – Appendix for the Qualified part number list

| Products |
|---|
| EN2549-030 |
| EN2549-040 |
| EN2549-050 |
| EN2549-060 |
| EN2549-080 |
| EN2549-100 |
| EN2549-120 |
| EN2870-040 |
| EN2870-050 |
| EN2870-060 |
| EN2870-080 |
| EN2870-120 |
| EN3037-030 |
| EN3037-040 |
| EN3037-050 |
| EN3037-060 |
| EN3304-050 |
| EN3381-040 |
| EN3381-050 |
| EN3381-060 |
| EN3740-050 |
| EN3740-060 |
| EN3740-080 |
| EN3740-100 |
| EN3740-120 |
| EN3820-040 |
| EN3820-050 |
| EN3820-060 |

| Products |
|---|
| EN3820-080 |
| EN4071-050 |
| EN4071-060 |
| EN4071-080 |
| EN4071-120 |
| EN4072-050 |
| EN4072-060 |
| EN4074-050 |
| EN4127-050 |
| EN4127-060 |
| EN4127-080 |
| EN4127-100 |
| EN4130-040 |
| EN4130-050 |
| EN4130-060 |
| EN4130-070 |
| EN4130-080 |
| EN4133-050 |
| EN4133-060 |
| EN4133-080 |
| EN4133-100 |
| EN4135-080 |
| EN4135-100 |
| EN4135-120 |
| EN4137-080 |
| EN4137-100 |
| EN4178-050 |
| EN4178-080 |

signed on behalf of ASD-CERT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 235**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | See Appendix for the Qualified part number list | Reports: see appendix<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 29 May 2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

# PQ 235 – Appendix for the Qualified part number list

| Product | Size | Original Report + Date and Last report + Date | Technical Specification Standard |
|---|---|---|---|
| EN2927 | 050<br>060<br>070<br>080<br>120 | C8 No 0119, 0121 issue 1 04/90<br>And<br>N°79-3 for LISI ACP005 Form2 – 2012/04/18 | EN2583 |
| EN2928 | 050<br>070 | | |
| EN3008 | 050<br>060 | | |
| EN3009 | 050<br>060<br>080 | | |
| EN3293 | 050<br>060<br>070 | | |
| EN3327 | 050<br>060<br>080<br>100 | | |
| EN3613 | 050 | N°178 for LISI ACP005 Form2 – 2012/06/22 | |

PQ 235

signed on behalf of ASD-CERT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 235**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | See Appendix for the Qualified part number list | Report: N°79-3_for_LISI_ACP005 Form2 – 2012/04/18<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 29 May 2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

# PQ 235 – Appendix for the Qualified part number list

| Product | Size | Original Report + Date and Last report + Date | Technical Specification Standard |
|---|---|---|---|
| EN2927 | 050<br>060<br>070<br>080<br>120 | C8 No 0119, 0121 issue 1 04/90<br>And<br>N°79-3 for LISI ACP005 Form2 – 2012/04/18 | EN2583 |
| EN2928 | 050<br>070 | | |
| EN3008 | 050<br>060 | | |
| EN3009 | 050<br>060<br>080 | | |
| EN3293 | 050<br>060<br>070 | | |
| EN3327 | 050<br>060<br>080<br>100 | | |

signed on behalf of ASD-CERT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 233 – Issue 2**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO7689 | See Annex for the Qualified part number list | Report: Lisi_ISO7689_ACP005 Form2 – 2012/03/12, N°197-1 for_LISI_ACP005 Form2– 2013/04/10 & N°197-2 for_LISI_ACP005 Form2– 2013/07/23<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**May 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24 April 2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# Annex - Qualified part number list

The following manufacturing routers are included hereafter:

Products :

EN2413-060
EN2413-080
EN2859-040
EN2859-050
EN2859-060
EN2859-080
EN2859-100
EN2859-120
EN3035-040
EN3035-050
EN3303-050
EN3303-060
EN4073-040
EN4073-060
EN4073-050
EN4129-040
EN4129-050
EN4129-060
EN4129-080
EN4129-100
EN4129-120
EN4132-050
EN4132-060
EN4132-080
EN4136-060
EN4136-070
EN4136-080
EN4138-030
EN4138-050
EN4138-060
EN4161-040
EN4162-050
EN4163-050

ASD-CERT
Certification of Aerospace Standard Products

PQ 233

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 233**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO7689 | See Annex for the Qualified part number list | Report: Lisi_ISO7689_ACP005 Form2 – 2012/03/12 & N°197-1 for_LISI_ACP005 Form2– 2013/04/10<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**May 2015**

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DATE :
DATE :
DATUM :

24 April 2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# Annex - Qualified part number list

The following manufacturing routers are included hereafter:

Products :

EN2413-060
EN2413-080
EN2859-040
EN2859-050
EN2859-060
EN2859-080
EN2859-100
EN3035-040
EN3035-050
EN3303-050
EN3303-060
EN4073-040
EN4073-060
EN4073-050
EN4129-040
EN4129-050
EN4129-060
EN4129-080
EN4129-100
EN4129-120
EN4132-050
EN4132-060
EN4132-080
EN4136-060
EN4136-070
EN4136-080
EN4138-030
EN4138-050
EN4138-060
EN4161-040
EN4162-050
EN4163-050

ASD-CERT
Certification of Aerospace Standard Products

PQ233

ASD-CERT
Certification of Aerospace Standard Products

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1150 Brussels
BELGIUM

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Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 233**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO7689 | See Annex for the Qualified part number list | Report: Lisi_ISO7689_ACP005 Form2 – 2012/03/12<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**May 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 24 April 2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# Annex - Qualified part number list

The following manufacturing routers are included hereafter:

Products :

EN2413-060
EN2413-080
EN2859-040
EN2859-050
EN2859-060
EN2859-080
EN2859-100
EN3035-040
EN3035-050
EN3303-050
EN3303-060
EN4073-040
EN4073-050
EN4129-040
EN4129-050
EN4129-060
EN4129-080
EN4129-100
EN4129-120
EN4132-050
EN4132-060
EN4132-080
EN4136-060
EN4136-070
EN4136-080
EN4138-030
EN4138-050
EN4138-060
EN4161-040
EN4162-050
EN4163-050

ASD-CERT
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PQ233

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

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Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**NEW PQ 232**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN3832-060, -070, -080, -100;<br>EN4321-080 and<br>EN 4352-100 | Report: EN3832-060-070_ACP005 Form2 – 2012/03/29 and N°79-4 _for_LISI_ACP005 Form2 – 2012/04/18 and N°153 _for_LISI_ACP005 Form2 – 2012/06/18<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
04 April 2012

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 232**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN3832-060, -070, -080, -100 and EN4321-080 | Report: EN3832-060-070_ACP005 Form2 – 2012/03/29 and N°79-4 _for_LISI_ACP005 Form2 – 2012/04/18<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

04 April 2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 231**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN3832-070 | Reports: 03 ESD9525 issue 3 of April 2012<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 03/04/2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 230** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-070<br>And by analogy<br>EN3239-070 | Reports: 04 ASD report 151 - EN3013-070 iss2 of February 2012<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 16/03/2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 229** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3686-070 | Report: N°339 for_ SPS _ACP005 Form2– Issue 1_2015 April & Issue 2_2015 August<br>Philip Edwards – ROLLS - ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

31/08/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :

Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 229**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3686-070<br>EN3687-070 | Reports: 01ESD9526 of May 2011<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 15 February 2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 228**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN3832-080 | Reports: 01ESD9605 of December 2011<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
15 February 2012

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 227**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2928-050 | Report: N°338 for_ SPS _ACP005 Form2– Issue 1_2015 April & Issue 2_2015 August<br>Philip Edwards – ROLLS - ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 31/08/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 227**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2928-050 | Reports: 02 ESD9541 issue 2 of February 2012<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 04/04/2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 226**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN2926-050 | Reports: 02 ESD9539 issue 2 of February 2012<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 04/04/2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 225**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2907-050 & -070 | Report: N°336 for_ SPS _ACP005 Form2– Issue 1_2015 April & Issue 2_2015 August<br>Philip Edwards – ROLLS - ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 31/08/2015
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 225**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2907-050, -070<br>and<br>EN2909-050 | Reports: 02ESD9524 of May 2011, 01ESD9536 of December 2011 and 01ESD9537 of December 2011<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 15 February 2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 224**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | E2906-070 | Report: N°336 for_ SPS _ACP005 Form2– Issue 1_2015 April & Issue 2_2015 August<br>Philip Edwards – ROLLS - ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 31/08/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 224**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | E2906-070 | Report: 01ESD9606<br>Date: December 2011<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 15 February 2012

PLACE :
A :
ORT : Brussels, Belgium



SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 223**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3152 | EN 3196 -040<br>And<br>EN 3377-040 by Analogy | ACP005 form 2 - Report for ALCOA EN3196-040<br>Rev 1 : 2011/09/12<br>CAPBLANCQ Michel (TURBOMECA) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 01/02/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 222**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2576 | EN2925-050<br>EN2926-050, -060, -070<br>EN3614-050 | EN2576_MBR reports_ ACP005 Form2 - 2011/11/10 and N°180 for_Lisi_ACP005 Form2– 2012/05/29<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 20 december 2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 222**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2576 | EN2925-050<br>EN2926-050, -060<br>EN3614-050 | EN2576_MBR reports_ ACP005 Form2 - 2011/11/10<br>Mr Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 20 december 2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 221**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3004 | EN 2907-050 | Report Lisi EF/SB N° 23 807<br>19/09/2011<br>MTU Aero Engines GmbH, M. Gregor Rensch |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 20 december 2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 220** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

THERMAX.
Calle Bustamante 645
Col. Granja
Nogales, Sonora, Mexico 84065

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2084 and EN 2235 | EN 2267-009 and -010 | QinetiQ/TIS/SPA/CR1000022<br>01 October 2010<br>M. Steve Allwood |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20 December 2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 219**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SPS TECHNOLOGIES
2701 South Harbor Blvd
Santa Ana, CA. 92704, USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3152 | EN 3241-050 | ESD9535 - Issue 1<br>October 2011<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
20 December 2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 218**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES
2701 South Harbor Blvd
Santa Ana, CA. 92704, USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3297 | EN 3236-050, -060, -070 and -080<br>EN 3237-050, -060, -070 and -080 (by analogy) | ESD9513 - Issue 1 – 02/2011<br>ESD9520 - Issue 2 – 12/2011<br>ESD9521 - Issue 2 – 09/2011<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2015**

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DATE :
DATE :
DATUM : 20 December 2011

PLACE :
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ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 217**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
HIREL CONNECTORS INC.
760 West Wharton Drive
Claremont
California, 91711 USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2997-001 | EN2997-003 and -008 Models 0 and 6, Classes K and S<br>See Appendix for the Qualified part number list | ASD-CERT Mandated body report – Hirel Connectors Inc - EN2997 Classes K and S<br>Issue Date 2011-15-09<br>M. Christian Mazelle |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
16/12/2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

# PQ 217 – Appendix 1 for the Qualified part number list

## Appendix 1

ASD-CERT
Certification of Aerospace Standard Products

Appendix 1 of PQ 217

ASD-CERT PQ 217 – Appendix 1 for the Qualified part number list

# LIST OF EN2997 PART NUMBERS FOR QUALIFICATION CLASS K & S

| EN2997 P/N Class S Receptacle | EN2997 P/N Class S Plug | EN2997 P/N Class K Plug |
|---|---|---|
| EN2997S00803** | EN2997S60803** | EN2997K60803** |
| EN2997S00898** | EN2997S60898** | EN2997K60898** |
| EN2997S01002** | EN2997S61002** | EN2997K61002** |
| EN2997S01005** | EN2997S61005** | EN2997K61005** |
| EN2997S01006** | EN2997S61006** | EN2997K61006** |
| EN2997S01203** | EN2997S61203** | EN2997K61203** |
| EN2997S01212** | EN2997S61212** | EN2997K61212** |
| EN2997S01404** | EN2997S61404** | EN2997K61404** |
| EN2997S01407** | EN2997S61407** | EN2997K61407** |
| EN2997S01412** | EN2997S61412** | EN2997K61412** |
| EN2997S01415** | EN2997S61415** | EN2997K61415** |
| EN2997S01610** | EN2997S61610** | EN2997K61610** |
| EN2997S01624** | EN2997S61624** | EN2997K61624** |
| EN2997S01808** | EN2997S61808** | EN2997K61808** |
| EN2997S01814** | EN2997S61814** | EN2997K61814** |
| EN2997S01831** | EN2997S61831** | EN2997K61831** |
| EN2997S02016** | EN2997S62016** | EN2997K62016** |
| EN2997S02025** | EN2997S62025** | EN2997K62025** |
| EN2997S02028** | EN2997S62028** | EN2997K62028** |
| EN2997S02039** | EN2997S62039** | EN2997K62039** |
| EN2997S02041** | EN2997S62041** | EN2997K62041** |
| EN2997S02212** | EN2997S62212** | EN2997K62212** |
| EN2997S02219** | EN2997S62219** | EN2997K62219** |
| EN2997S02230** | EN2997S62230** | EN2997K62230** |
| EN2997S02232** | EN2997S62232** | EN2997K62232** |
| EN2997S02239** | EN2997S62239** | EN2997K62239** |
| EN2997S02255** | EN2997S62255** | EN2997K62255** |
| EN2997S02430** | EN2997S62430** | EN2997K62430** |
| EN2997S02443** | EN2997S62443** | EN2997K62443** |
| EN2997S02457** | EN2997S62457** | EN2997K62457** |
| EN2997S02461** | EN2997S62461** | EN2997K62461** |
| EN2997S02842** | EN2997S62842** | EN2997K62842** |

*** TYPES OF CONTACTS**

| | |
|---|---|
| M | – MALE CONTACTS |
| A | – LESS MALE CONTACTS |
| F | – FEMALE |
| C | – SIZE 20 MALE CONTACT WITH SPECIAL BARREL |
| B | – LESS FEMALE CONTACTS |
| D | – SIZE 20 FEMALE CONTACT WITH SPECIAL BARREL |

| *Polarization positions | Housing (shell) sizes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 08 | 10 | 12 | 14 | 16 | 18 | 22 | 24 | 28 |
| N | * | * | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * | * | * |
| 8 | * | * | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * | * | * |
| Y | * | * | * | * | * | * | * | * | * |

Appendisc 1 of PQ 217

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 216** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

AXON'CABLE France
Route de Chalons en Champagne
Boîte Postale n°1
51210 Montmirail (FRANCE)

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3375-001 | EN 3375-003 Type KG | QTP 2423 Issue 4 (17/03/2011), QTR N°2515 Issue B ( 24/05/2010) and PQTR D10011619_V1(06/04/2011)<br>Régis RUFFEL - AIRBUS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

18 November 2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 215**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2582 | EN3294-050 | ESD9546, Issue 1<br>Issue Date : 2011/10/05<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
18 November 2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 214**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN 3686-050, -070 &<br>EN3687-050 | Report: N°303 for_LISI_ACP005<br>Form2– 2015/09/14<br><br>Mr Michel CAPBLANCQ - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 08/10/2015
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

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Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 214**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN 3686-050, EN 3686-070, EN 3912-050010 and by analogy EN3687-050 | EN3685_MBR report_ ACP005 Form2- 2011/10/05 and Report: N°176 for_Lisi_ACP005 Form2– 2012/07/02<br>Michel CAPBLANCQ, Turbomeca |

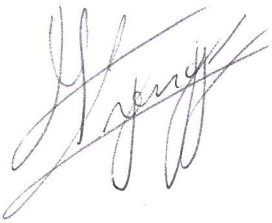
This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 03/11/2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :



SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 214**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3685 | EN 3686-050<br>EN 3686-070<br>EN 3912-050010 | EN3685_MBR report_ ACP005 Form2 (for renewal of PQ 110) - 2011/10/05<br>TURBOMECA, Mr Michel CAPBLANCQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 03/11/2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 213**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2582 | EN 2929-050, -060, -070, EN 2935-060, EN 3010-050, EN 3294-050, -100, EN 3379-100 | Report: N°302 for_LISI_ACP005 Form2– 2015/09/14<br><br>Mr Michel CAPBLANCQ - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 08/10/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 213**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2582 | See Appendix for the Qualified part number list | LISI_EN2582_ ACP005 Form2_All Parts for renewal of PQ 110 - 2011/08/24<br>TURBOMECA, Mr Michel CAPBLANCQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

06/10/2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PQ 213 – Appendix for the Qualified part number list

- EN2929-050 bolts, double hexagon head, relieved shank, long thread
- EN2929-060 bolts, double hexagon head, relieved shank, long thread
- EN2929-070 bolts, double hexagon head, relieved shank, long thread
- EN2935-060 bolts, t-head, relieved shank, long thread
- EN3010-050 bolts, hexagon head, relieve shank, long thread
- EN3294-050 bolts, t-head, close tolerance
- EN3294-100 bolts, t-head, close tolerance
- EN3379-100 bolts, t-head, close tolerance

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Annesc PQ 213

ASD-CERT
Certification of Aerospace Standard Products
10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 212**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

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| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3004 | EN2906-050; -070<br>EN2907-060, -100<br>EN2909-050, -060, -070<br>EN2910-070<br>EN2911-050, -060, -080 | Report: N°301 for_LISI_ACP005 Form2–2015/09/14<br><br>Mr Michel CAPBLANCQ - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 08/10/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products
10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **2nd NEW PQ 212** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3004 | EN2906-050; -070<br>EN2907-060, -100<br>EN2909-050, -060, -070<br>EN2910-070<br>EN2911-050, -060, -080 | TURBOMECA Cover Letter and Report for renewal of PQ 110 - 2011/01/20, Report: N°152 for_LISI_ACP005 Form2– 2012/06/18 and Report: N°147 for_LISI_ACP005 Form2– 2012/10/24<br>TURBOMECA, Mr Michel CAPBLANCQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

06/10/2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**NEW PQ 212**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3004 | EN2910-070 and See Appendix for the Qualified part number list | TURBOMECA Cover Letter and Report for renewal of PQ 110 - 2011/01/20 and Report: N°152 for_LISI_ACP005 Form2– 2012/06/18<br>TURBOMECA, Mr Michel CAPBLANCQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

06/10/2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PQ 212 – Appendix for the Qualified part number list

| Product | Last Production | Qty | Date | Applicable specification | Customer | Cert/Doc reference/Specif./Other information |
|---|---|---|---|---|---|---|
| EN2906-050 | 566314 | 1000 | 04/11/2009 | EN3004 | Pattonair Derby | PQ110 / C8 N°0130 / EN3004 |
| EN2906-070 | 569519 | 1500 | 06/01/2010 | | Eurocopter France | |
| EN2907-060 | 537293 | 1500 | 07/09/2006 | | MTU Aero Engines | PQ110 / C8 N°0127 / EN3004 |
| | | | | | Eurocopter France | PQ110 / C8 N°0128 / EN3004 |
| EN2907-100 | 566248 | 2500 | 13/08/2009 | | Pattonair Derby | PQ110 / JPC/GP/15364/ EN3004 |
| EN2909-050 | 544117 | 13800 | 22/06/2007 | | Pattonair LDT | PQ110 / C8 N°0127 / EN3004 |
| EN2909-060 | 568746 | 4150 | 08/12/2009 | | MTU Aero Engines | PQ110 / C8 N°0128 / EN3004 |
| EN2909-070 | 439470 | 500 | 19/02/2008 | | MTU Aero Engines | PQ 111 - GP/DJ/N°17751/ EN 3004 |
| EN2911-050 | 570960 | 3100 | 18/01/2010 | | MTU Aero Engines | PQ110 / JPC/GP/12173/ EN3004 |
| EN2911-060 | 565576 | 1787 | 15/06/2009 | | Pattonair Derby | PQ110 / C8 N°0005, 0011 / EN3004 |

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PQ 212

ASD-CERT
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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 212**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3004 | See Appendix for the Qualified part number list | TURBOMECA Cover Letter and Report for renewal of PQ 110 - 2011/01/20<br>TURBOMECA, Mr Michel CAPBLANCQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
06/10/2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

# PQ 212 – Appendix for the Qualified part number list

| Product | Last Production | Qty | Date | Applicable specification | Customer | Cert/Doc reference/Specif./Other information |
|---|---|---|---|---|---|---|
| EN2906-050 | 566314 | 1000 | 04/11/2009 | EN3004 | Pattonair Derby | PQ110 / C8 N°0130 / EN3004 |
| EN2906-070 | 569519 | 1500 | 06/01/2010 | | Eurocopter France | |
| EN2907-060 | 537293 | 1500 | 07/09/2006 | | MTU Aero Engines | PQ110 / C8 N°0127 / EN3004 |
| | | | | | Eurocopter France | PQ110 / C8 N°0128 / EN3004 |
| EN2907-100 | 566248 | 2500 | 13/08/2009 | | Pattonair Derby | PQ110 / JPC/GP/15364/ EN3004 |
| EN2909-050 | 544117 | 13800 | 22/06/2007 | | Pattonair LDT | PQ110 / C8 N°0127 / EN3004 |
| EN2909-060 | 568746 | 4150 | 08/12/2009 | | MTU Aero Engines | PQ110 / C8 N°0128 / EN3004 |
| EN2909-070 | 439470 | 500 | 19/02/2008 | | MTU Aero Engines | PQ 111 - GP/DJ/N°17751/ EN 3004 |
| EN2911-050 | 570960 | 3100 | 18/01/2010 | | MTU Aero Engines | PQ110 / JPC/GP/12173/ EN3004 |
| EN2911-060 | 565576 | 1787 | 15/06/2009 | | Pattonair Derby | PQ110 / C8 N°0005, 0011 / EN3004 |

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Annexe PQ 212

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 211**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3152 | EN 3034-030 and -040 | ALCOA report for EN3034-030 and -040ACP005 all parts<br>Rev 2 : 2011/07/28<br>CAPBLANCQ Michel (TURBOMECA) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
06/10/2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 210 - Renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Connecteurs Electriques Deutsch<br>17, Rue Lavoisier<br>ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
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| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2997-001 | EN2997-<br>See Appendix for the Qualified part number list | Report: N°356<br>for_Deutsch_ACP005 Form2–2015/12/10<br>Trevor Williams - QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**FEBRUARY 2019**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 25/01/2016

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Christelle Festaud, Secretary General, *+33 1 47 65 70 11*

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# PQ 210 – Appendix 1/3 for the Qualified part number list

## APPENDIX 1

### 1. RECEPTACLE, SQUARE FLANGE EN2997-005 Classe Y

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y008-03M* | 983-0Y 08-03 P* |
| EN2997Y008-98M* | 983-0Y 08-98 P* |
| EN2997Y010-05M* | 983-0Y 10-05 P* |
| EN2997Y010-06M* | 983-0Y 10-06 P* |
| EN2997Y012-03M* | 983-0Y 12-03 P* |
| EN2997Y012-12M* | 983-0Y 12-12 P* |
| EN2997Y014-04M* | 983-0Y 14-04 P* |
| EN2997Y014-07M* | 983-0Y 14-07 P* |
| EN2997Y014-15M* | 983-0Y 14-15 P* |
| EN2997Y016-10M* | 983-0Y 16-10 P* |
| EN2997Y016-24M* | 983-0Y 16-24 P* |
| EN2997Y018-08M* | 983-0Y 18-08 P* |
| EN2997Y018-14M* | 983-0Y 18-14 P* |
| EN2997Y018-31M* | 983-0Y 18-31 P* |
| EN2997Y020-16M* | 983-0Y 20-16 P* |
| EN2997Y020-28M* | 983-0Y 20-28 P* |
| EN2997Y020-39M* | 983-0Y 20-39 P* |
| EN2997Y020-41M* | 983-0Y 20-41 P* |
| EN2997Y022-12M* | 983-0Y 22-12 P* |
| EN2997Y022-19M* | 983-0Y 22-19 P* |
| EN2997Y022-55M* | 983-0Y 22-55 P* |
| EN2997Y024-61M* | 983-0Y 24-61 P* |

### 2. RECEPTACLE, SQUARE FLANGE EN2997-005 Classe YE

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE008-03M* | 983-0YE 08-03 P* |
| EN2997YE008-98M* | 983-0YE 08-98 P* |
| EN2997YE010-05M* | 983-0YE 10-05 P* |
| EN2997YE010-06M* | 983-0YE 10-06 P* |
| EN2997YE012-03M* | 983-0YE 12-03 P* |
| EN2997YE012-12M* | 983-0YE 12-12 P* |
| EN2997YE014-04M* | 983-0YE 14-04 P* |
| EN2997YE014-07M* | 983-0YE 14-07 P* |
| EN2997YE014-15M* | 983-0YE 14-15 P* |
| EN2997YE016-10M* | 983-0YE 16-10 P* |
| EN2997YE016-24M* | 983-0YE 16-24 P* |
| EN2997YE018-08M* | 983-0YE 18-08 P* |
| EN2997YE018-14M* | 983-0YE 18-14 P* |
| EN2997YE018-31M* | 983-0YE 18-31 P* |
| EN2997YE020-16M* | 983-0YE 20-16 P* |
| EN2997YE020-28M* | 983-0YE 20-28 P* |
| EN2997YE020-39M* | 983-0YE 20-39 P* |
| EN2997YE020-41M* | 983-0YE 20-41 P* |
| EN2997YE022-12M* | 983-0YE 22-12 P* |
| EN2997YE022-19M* | 983-0YE 22-19 P* |
| EN2997YE022-55M* | 983-0YE 22-55 P* |
| EN2997YE024-61M* | 983-0YE 24-61 P* |

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

03/02/2012

ASD-CERT N° 0006 The European Association of Aerospace Industries

Certifi RT Products

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# PQ 210 – Appendix 2/3 for the Qualified part number list

### 3. RECEPTACLE, JAM-NUT MOUNTING EN2997-006 Classe V

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y708-03M* | 983-7Y 08-03 P* |
| EN2997Y708-98M* | 983-7Y 08-98 P* |
| EN2997Y710-05M* | 983-7Y 10-05 P* |
| EN2997Y710-06M* | 983-7Y 10-06 P* |
| EN2997Y712-03M* | 983-7Y 12-03 P* |
| EN2997Y712-12M* | 983-7Y 12-12 P* |
| EN2997Y714-04M* | 983-7Y 14-04 P* |
| EN2997Y714-07M* | 983-7Y 14-07 P* |
| EN2997Y714-15M* | 983-7Y 14-15 P* |
| EN2997Y716-10M* | 983-7Y 16-10 P* |
| EN2997Y716-24M* | 983-7Y 16-24 P* |
| EN2997Y718-08M* | 983-7Y 18-08 P* |
| EN2997Y718-14M* | 983-7Y 18-14 P* |
| EN2997Y718-31M* | 983-7Y 18-31 P* |
| EN2997Y720-16M* | 983-7Y 20-16 P* |
| EN2997Y720-28M* | 983-7Y 20-28 P* |
| EN2997Y720-39M* | 983-7Y 20-39 P* |
| EN2997Y720-41M* | 983-7Y 20-41 P* |
| EN2997Y722-12M* | 983-7Y 22-12 P* |
| EN2997Y722-19M* | 983-7Y 22-19 P* |
| EN2997Y722-55M* | 983-7Y 22-55 P* |
| EN2997Y724-61M* | 983-7Y 24-61 P* |

### 4. RECEPTACLE, JAM-NUT MOUNTING EN2997-006 Classe YE

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE708-03M* | 983-7YE 08-03 P* |
| EN2997YE708-98M* | 983-7YE 08-98 P* |
| EN2997YE710-05M* | 983-7YE 10-05 P* |
| EN2997YE710-06M* | 983-7YE 10-06 P* |
| EN2997YE712-03M* | 983-7YE 12-03 P* |
| EN2997YE712-12M* | 983-7YE 12-12 P* |
| EN2997YE714-04M* | 983-7YE 14-04 P* |
| EN2997YE714-07M* | 983-7YE 14-07 P* |
| EN2997YE714-15M* | 983-7YE 14-15 P* |
| EN2997YE716-10M* | 983-7YE 16-10 P* |
| EN2997YE716-24M* | 983-7YE 16-24 P* |
| EN2997YE718-08M* | 983-7YE 18-08 P* |
| EN2997YE718-14M* | 983-7YE 18-14 P* |
| EN2997YE718-31M* | 983-7YE 18-31 P* |
| EN2997YE720-16M* | 983-7YE 20-16 P* |
| EN2997YE720-28M* | 983-7YE 20-28 P* |
| EN2997YE720-39M* | 983-7YE 20-39 P* |
| EN2997YE720-41M* | 983-7YE 20-41 P* |
| EN2997YE722-12M* | 983-7YE 22-12 P* |
| EN2997YE722-19M* | 983-7YE 22-19 P* |
| EN2997YE722-55M* | 983-7YE 22-55 P* |
| EN2997YE724-61M* | 983-7YE 24-61 P* |

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

01/02/2012

N° 0006

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roducts

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# PQ 210 - Appendix 3/3 for the Qualified part number list

**5. RECEPTACLE, ROUND FLANGE EN2997-007 Classe Y**

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y108-03M* | 983-1Y 08-03 P* |
| EN2997Y108-98M* | 983-1Y 08-98 P* |
| EN2997Y110-05M* | 983-1Y 10-05 P* |
| EN2997Y110-06M* | 983-1Y 10-06 P* |
| EN2997Y112-03M* | 983-1Y 12-03 P* |
| EN2997Y112-12M* | 983-1Y 12-12 P* |
| EN2997Y114-04M* | 983-1Y 14-04 P* |
| EN2997Y114-07M* | 983-1Y 14-07 P* |
| EN2997Y114-15M* | 983-1Y 14-15 P* |
| EN2997Y116-10M* | 983-1Y 16-10 P* |
| EN2997Y116-24M* | 983-1Y 16-24 P* |
| EN2997Y118-08M* | 983-1Y 18-08 P* |
| EN2997Y118-14M* | 983-1Y 18-14 P* |
| EN2997Y118-31M* | 983-1Y 18-31 P* |
| EN2997Y120-16M* | 983-1Y 20-16 P* |
| EN2997Y120-28M* | 983-1Y 20-28 P* |
| EN2997Y120-39M* | 983-1Y 20-39 P* |
| EN2997Y120-41M* | 983-1Y 20-41 P* |
| EN2997Y122-12M* | 983-1Y 22-12 P* |
| EN2997Y122-19M* | 983-1Y 22-19 P* |
| EN2997Y122-55M* | 983-1Y 22-55 P* |
| EN2997Y124-61M* | 983-1Y 24-61 P* |

**6. RECEPTACLE, ROUND FLANGE EN2997-007 Classe YE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE108-03M* | 983-1YE 08-03 P* |
| EN2997YE108-98M* | 983-1YE 08-98 P* |
| EN2997YE110-05M* | 983-1YE 10-05 P* |
| EN2997YE110-06M* | 983-1YE 10-06 P* |
| EN2997YE112-03M* | 983-1YE 12-03 P* |
| EN2997YE112-12M* | 983-1YE 12-12 P* |
| EN2997YE114-04M* | 983-1YE 14-04 P* |
| EN2997YE114-07M* | 983-1YE 14-07 P* |
| EN2997YE114-15M* | 983-1YE 14-15 P* |
| EN2997YE116-10M* | 983-1YE 16-10 P* |
| EN2997YE116-24M* | 983-1YE 16-24 P* |
| EN2997YE118-08M* | 983-1YE 18-08 P* |
| EN2997YE118-14M* | 983-1YE 18-14 P* |
| EN2997YE118-31M* | 983-1YE 18-31 P* |
| EN2997YE120-16M* | 983-1YE 20-16 P* |
| EN2997YE120-28M* | 983-1YE 20-28 P* |
| EN2997YE120-39M* | 983-1YE 20-39 P* |
| EN2997YE120-41M* | 983-1YE 20-41 P* |
| EN2997YE122-12M* | 983-1YE 22-12 P* |
| EN2997YE122-19M* | 983-1YE 22-19 P* |
| EN2997YE122-55M* | 983-1YE 22-55 P* |
| EN2997YE124-61M* | 983-1YE 24-61 P* |

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

03/02/2012

N° 0006
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Certifi ... Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 210**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Connecteurs Electriques Deutsch
17, Rue Lavoisier
ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2997-001 | EN2997-<br>See Appendix for the Qualified part number list | ASD-CERT Mandated body report - Deutsch - EN2997 Y & YE<br>Issue Date2011/07/27<br>M. Christian Mazelle |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 03/10/2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

# PQ 210 – Appendix 1/3 for the Qualified part number list

## APPENDIX 1

### 1. RECEPTACLE, SQUARE FLANGE EN2997-005 Classe Y

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y008-03M* | 983-0Y 08-03 P* |
| EN2997Y008-98M* | 983-0Y 08-98 P* |
| EN2997Y010-05M* | 983-0Y 10-05 P* |
| EN2997Y010-06M* | 983-0Y 10-06 P* |
| EN2997Y012-03M* | 983-0Y 12-03 P* |
| EN2997Y012-12M* | 983-0Y 12-12 P* |
| EN2997Y014-04M* | 983-0Y 14-04 P* |
| EN2997Y014-07M* | 983-0Y 14-07 P* |
| EN2997Y014-15M* | 983-0Y 14-15 P* |
| EN2997Y016-10M* | 983-0Y 16-10 P* |
| EN2997Y016-24M* | 983-0Y 16-24 P* |
| EN2997Y018-08M* | 983-0Y 18-08 P* |
| EN2997Y018-14M* | 983-0Y 18-14 P* |
| EN2997Y018-31M* | 983-0Y 18-31 P* |
| EN2997Y020-16M* | 983-0Y 20-16 P* |
| EN2997Y020-28M* | 983-0Y 20-28 P* |
| EN2997Y020-39M* | 983-0Y 20-39 P* |
| EN2997Y020-41M* | 983-0Y 20-41 P* |
| EN2997Y022-12M* | 983-0Y 22-12 P* |
| EN2997Y022-19M* | 983-0Y 22-19 P* |
| EN2997Y022-55M* | 983-0Y 22-55 P* |
| EN2997Y024-61M* | 983-0Y 24-61 P* |

### 2. RECEPTACLE, SQUARE FLANGE EN2997-005 Classe YE

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE008-03M* | 983-0YE 08-03 P* |
| EN2997YE008-98M* | 983-0YE 08-98 P* |
| EN2997YE010-05M* | 983-0YE 10-05 P* |
| EN2997YE010-06M* | 983-0YE 10-06 P* |
| EN2997YE012-03M* | 983-0YE 12-03 P* |
| EN2997YE012-12M* | 983-0YE 12-12 P* |
| EN2997YE014-04M* | 983-0YE 14-04 P* |
| EN2997YE014-07M* | 983-0YE 14-07 P* |
| EN2997YE014-15M* | 983-0YE 14-15 P* |
| EN2997YE016-10M* | 983-0YE 16-10 P* |
| EN2997YE016-24M* | 983-0YE 16-24 P* |
| EN2997YE018-08M* | 983-0YE 18-08 P* |
| EN2997YE018-14M* | 983-0YE 18-14 P* |
| EN2997YE018-31M* | 983-0YE 18-31 P* |
| EN2997YE020-16M* | 983-0YE 20-16 P* |
| EN2997YE020-28M* | 983-0YE 20-28 P* |
| EN2997YE020-39M* | 983-0YE 20-39 P* |
| EN2997YE020-41M* | 983-0YE 20-41 P* |
| EN2997YE022-12M* | 983-0YE 22-12 P* |
| EN2997YE022-19M* | 983-0YE 22-19 P* |
| EN2997YE022-55M* | 983-0YE 22-55 P* |
| EN2997YE024-61M* | 983-0YE 24-61 P* |

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* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

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# PQ 210 – Appendix 2/3 for the Qualified part number list

### 3. RECEPTACLE, JAM-NUT MOUNTING EN2997-006 Classe V

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y708-03M* | 983-7Y 08-03 P* |
| EN2997Y708-98M* | 983-7Y 08-98 P* |
| EN2997Y710-05M* | 983-7Y 10-05 P* |
| EN2997Y710-06M* | 983-7Y 10-06 P* |
| EN2997Y712-03M* | 983-7Y 12-03 P* |
| EN2997Y712-12M* | 983-7Y 12-12 P* |
| EN2997Y714-04M* | 983-7Y 14-04 P* |
| EN2997Y714-07M* | 983-7Y 14-07 P* |
| EN2997Y714-15M* | 983-7Y 14-15 P* |
| EN2997Y716-10M* | 983-7Y 16-10 P* |
| EN2997Y716-24M* | 983-7Y 16-24 P* |
| EN2997Y718-08M* | 983-7Y 18-08 P* |
| EN2997Y718-14M* | 983-7Y 18-14 P* |
| EN2997Y718-31M* | 983-7Y 18-31 P* |
| EN2997Y720-16M* | 983-7Y 20-16 P* |
| EN2997Y720-28M* | 983-7Y 20-28 P* |
| EN2997Y720-39M* | 983-7Y 20-39 P* |
| EN2997Y720-41M* | 983-7Y 20-41 P* |
| EN2997Y722-12M* | 983-7Y 22-12 P* |
| EN2997Y722-19M* | 983-7Y 22-19 P* |
| EN2997Y722-55M* | 983-7Y 22-55 P* |
| EN2997Y724-61M* | 983-7Y 24-61 P* |

### 4. RECEPTACLE, JAM-NUT MOUNTING EN2997-006 Classe YE

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE708-03M* | 983-7YE 08-03 P* |
| EN2997YE708-98M* | 983-7YE 08-98 P* |
| EN2997YE710-05M* | 983-7YE 10-05 P* |
| EN2997YE710-06M* | 983-7YE 10-06 P* |
| EN2997YE712-03M* | 983-7YE 12-03 P* |
| EN2997YE712-12M* | 983-7YE 12-12 P* |
| EN2997YE714-04M* | 983-7YE 14-04 P* |
| EN2997YE714-07M* | 983-7YE 14-07 P* |
| EN2997YE714-15M* | 983-7YE 14-15 P* |
| EN2997YE716-10M* | 983-7YE 16-10 P* |
| EN2997YE716-24M* | 983-7YE 16-24 P* |
| EN2997YE718-08M* | 983-7YE 18-08 P* |
| EN2997YE718-14M* | 983-7YE 18-14 P* |
| EN2997YE718-31M* | 983-7YE 18-31 P* |
| EN2997YE720-16M* | 983-7YE 20-16 P* |
| EN2997YE720-28M* | 983-7YE 20-28 P* |
| EN2997YE720-39M* | 983-7YE 20-39 P* |
| EN2997YE720-41M* | 983-7YE 20-41 P* |
| EN2997YE722-12M* | 983-7YE 22-12 P* |
| EN2997YE722-19M* | 983-7YE 22-19 P* |
| EN2997YE722-55M* | 983-7YE 22-55 P* |
| EN2997YE724-61M* | 983-7YE 24-61 P* |

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

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N° 0006
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PQ 210

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# PQ 210 - Appendix 3/3 for the Qualified part number list

## 5. RECEPTACLE, ROUND FLANGE EN2997-007 Classe V

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y108-03M* | 983-1Y 08-03 P* |
| EN2997Y108-98M* | 983-1Y 08-98 P* |
| EN2997Y110-05M* | 983-1Y 10-05 P* |
| EN2997Y110-06M* | 983-1Y 10-06 P* |
| EN2997Y112-03M* | 983-1Y 12-03 P* |
| EN2997Y112-12M* | 983-1Y 12-12 P* |
| EN2997Y114-04M* | 983-1Y 14-04 P* |
| EN2997Y114-07M* | 983-1Y 14-07 P* |
| EN2997Y114-15M* | 983-1Y 14-15 P* |
| EN2997Y116-10M* | 983-1Y 16-10 P* |
| EN2997Y116-24M* | 983-1Y 16-24 P* |
| EN2997Y118-08M* | 983-1Y 18-08 P* |
| EN2997Y118-14M* | 983-1Y 18-14 P* |
| EN2997Y118-31M* | 983-1Y 18-31 P* |
| EN2997Y120-16M* | 983-1Y 20-16 P* |
| EN2997Y120-28M* | 983-1Y 20-28 P* |
| EN2997Y120-39M* | 983-1Y 20-39 P* |
| EN2997Y120-41M* | 983-1Y 20-41 P* |
| EN2997Y122-12M* | 983-1Y 22-12 P* |
| EN2997Y122-19M* | 983-1Y 22-19 P* |
| EN2997Y122-55M* | 983-1Y 22-55 P* |
| EN2997Y124-61M* | 983-1Y 24-61 P* |

## 6. RECEPTACLE, ROUND FLANGE EN2997-007 Classe YE

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE108-03M* | 983-1YE 08-03 P* |
| EN2997YE108-98M* | 983-1YE 08-98 P* |
| EN2997YE110-05M* | 983-1YE 10-05 P* |
| EN2997YE110-06M* | 983-1YE 10-06 P* |
| EN2997YE112-03M* | 983-1YE 12-03 P* |
| EN2997YE112-12M* | 983-1YE 12-12 P* |
| EN2997YE114-04M* | 983-1YE 14-04 P* |
| EN2997YE114-07M* | 983-1YE 14-07 P* |
| EN2997YE114-15M* | 983-1YE 14-15 P* |
| EN2997YE116-10M* | 983-1YE 16-10 P* |
| EN2997YE116-24M* | 983-1YE 16-24 P* |
| EN2997YE118-08M* | 983-1YE 18-08 P* |
| EN2997YE118-14M* | 983-1YE 18-14 P* |
| EN2997YE118-31M* | 983-1YE 18-31 P* |
| EN2997YE120-16M* | 983-1YE 20-16 P* |
| EN2997YE120-28M* | 983-1YE 20-28 P* |
| EN2997YE120-39M* | 983-1YE 20-39 P* |
| EN2997YE120-41M* | 983-1YE 20-41 P* |
| EN2997YE122-12M* | 983-1YE 22-12 P* |
| EN2997YE122-19M* | 983-1YE 22-19 P* |
| EN2997YE122-55M* | 983-1YE 22-55 P* |
| EN2997YE124-61M* | 983-1YE 24-61 P* |

03/02/2012

N° 0006

The European Association of Aerospace Industries - Certification -

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

PQ 210

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 210** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier
ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2997-001 | EN2997-<br>See Appendix for the Qualified part number list | ASD-CERT Mandated body report - Deutsch - EN2997 Y & YE<br>Issue Date2011/07/27<br>M. Christian Mazelle |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

03/10/2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT

Certification of Aerospace Standard Products

# PQ 210 – Appendix 1/3 for the Qualified part number list

## APPENDIX I

**1. RECEPTACLE, SQUARE FLANGE** **EN2997-005 Classe Y**

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y008-03M* | 983-0Y 08-03 P* |
| EN2997Y008-98M* | 983-0Y 08-98 P* |
| EN2997Y010-05M* | 983-0Y 10-05 P* |
| EN2997Y010-06M* | 983-0Y 10-06 P* |
| EN2997Y012-03M* | 983-0Y 12-03 P* |
| EN2997Y012-12M* | 983-0Y 12-12 P* |
| EN2997Y014-04M* | 983-0Y 14-04 P* |
| EN2997Y014-07M* | 983-0Y 14-07 P* |
| EN2997Y014-15M* | 983-0Y 14-15 P* |
| EN2997Y016-10M* | 983-0Y 16-10 P* |
| EN2997Y016-24M* | 983-0Y 16-24 P* |
| EN2997Y018-08M* | 983-0Y 18-08 P* |
| EN2997Y018-14M* | 983-0Y 18-14 P* |
| EN2997Y018-31M* | 983-0Y 18-31 P* |
| EN2997Y020-16M* | 983-0Y 20-16 P* |
| EN2997Y020-28M* | 983-0Y 20-28 P* |
| EN2997Y020-39M* | 983-0Y 20-39 P* |
| EN2997Y020-41M* | 983-0Y 20-41 P* |
| EN2997Y022-19M* | 983-0Y 22-19 P* |
| EN2997Y022-55M* | 983-0Y 22-55 P* |
| EN2997Y024-61M* | 983-0Y 24-61 P* |

N° 0006

The European Association of Aerospace Industries Certification

27/07/11

**2. RECEPTACLE, SQUARE FLANGE** **EN2997-005 Classe YE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE008-03M* | 983-0YE 08-03 P* |
| EN2997YE008-98M* | 983-0YE 08-98 P* |
| EN2997YE010-05M* | 983-0YE 10-05 P* |
| EN2997YE010-06M* | 983-0YE 10-06 P* |
| EN2997YE012-03M* | 983-0YE 12-03 P* |
| EN2997YE012-12M* | 983-0YE 12-12 P* |
| EN2997YE014-04M* | 983-0YE 14-04 P* |
| EN2997YE014-07M* | 983-0YE 14-07 P* |
| EN2997YE014-15M* | 983-0YE 14-15 P* |
| EN2997YE016-10M* | 983-0YE 16-10 P* |
| EN2997YE016-24M* | 983-0YE 16-24 P* |
| EN2997YE018-08M* | 983-0YE 18-08 P* |
| EN2997YE018-14M* | 983-0YE 18-14 P* |
| EN2997YE018-31M* | 983-0YE 18-31 P* |
| EN2997YE020-16M* | 983-0YE 20-16 P* |
| EN2997YE020-28M* | 983-0YE 20-28 P* |
| EN2997YE020-39M* | 983-0YE 20-39 P* |
| EN2997YE020-41M* | 983-0YE 20-41 P* |
| EN2997YE022-19M* | 983-0YE 22-19 P* |
| EN2997YE022-55M* | 983-0YE 22-55 P* |
| EN2997YE024-61M* | 983-0YE 24-61 P* |

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

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# PQ 210 – Appendix 2/3 for the Qualified part number list

### 3. RECEPTACLE, JAM-NUT MOUNTING EN2997-006 Classe Y

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y708-03M* | 983-7Y 08-03 P* |
| EN2997Y708-98M* | 983-7Y 08-98 P* |
| EN2997Y710-05M* | 983-7Y 10-05 P* |
| EN2997Y710-06M* | 983-7Y 10-06 P* |
| EN2997Y712-03M* | 983-7Y 12-03 P* |
| EN2997Y712-12M* | 983-7Y 12-12 P* |
| EN2997Y714-04M* | 983-7Y 14-04 P* |
| EN2997Y714-07M* | 983-7Y 14-07 P* |
| EN2997Y714-15M* | 983-7Y 14-15 P* |
| EN2997Y716-10M* | 983-7Y 16-10 P* |
| EN2997Y716-24M* | 983-7Y 16-24 P* |
| EN2997Y718-08M* | 983-7Y 18-08 P* |
| EN2997Y718-14M* | 983-7Y 18-14 P* |
| EN2997Y718-31M* | 983-7Y 18-31 P* |
| EN2997Y720-16M* | 983-7Y 20-16 P* |
| EN2997Y720-28M* | 983-7Y 20-28 P* |
| EN2997Y720-39M* | 983-7Y 20-39 P* |
| EN2997Y720-41M* | 983-7Y 20-41 P* |
| EN2997Y722-19M* | 983-7Y 22-19 P* |
| EN2997Y722-55M* | 983-7Y 22-55 P* |
| EN2997Y724-61M* | 983-7Y 24-61 P* |

### 4. RECEPTACLE, JAM-NUT MOUNTING EN2997-006 Classe YE

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE708-03M* | 983-7YE 08-03 P* |
| EN2997YE708-98M* | 983-7YE 08-98 P* |
| EN2997YE710-05M* | 983-7YE 10-05 P* |
| EN2997YE710-06M* | 983-7YE 10-06 P* |
| EN2997YE712-03M* | 983-7YE 12-03 P* |
| EN2997YE712-12M* | 983-7YE 12-12 P* |
| EN2997YE714-04M* | 983-7YE 14-04 P* |
| EN2997YE714-07M* | 983-7YE 14-07 P* |
| EN2997YE714-15M* | 983-7YE 14-15 P* |
| EN2997YE716-10M* | 983-7YE 16-10 P* |
| EN2997YE716-24M* | 983-7YE 16-24 P* |
| EN2997YE718-08M* | 983-7YE 18-08 P* |
| EN2997YE718-14M* | 983-7YE 18-14 P* |
| EN2997YE718-31M* | 983-7YE 18-31 P* |
| EN2997YE720-16M* | 983-7YE 20-16 P* |
| EN2997YE720-28M* | 983-7YE 20-28 P* |
| EN2997YE720-39M* | 983-7YE 20-39 P* |
| EN2997YE720-41M* | 983-7YE 20-41 P* |
| EN2997YE722-19M* | 983-7YE 22-19 P* |
| EN2997YE722-55M* | 983-7YE 22-55 P* |
| EN2997YE724-61M* | 983-7YE 24-61 P* |

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

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# PQ 210 - Appendix 3/3 for the Qualified part number list

## 5. RECEPTACLE, ROUND FLANGE EN2997-007 Classe Y

| EN2997 | DEUTSCH |
|---|---|
| EN2997Y108-03M* | 983-1Y 08-03 P* |
| EN2997Y108-98M* | 983-1Y 08-98 P* |
| EN2997Y110-05M* | 983-1Y 10-05 P* |
| EN2997Y110-06M* | 983-1Y 10-06 P* |
| EN2997Y112-03M* | 983-1Y 12-03 P* |
| EN2997Y112-12M* | 983-1Y 12-12 P* |
| EN2997Y114-04M* | 983-1Y 14-04 P* |
| EN2997Y114-07M* | 983-1Y 14-07 P* |
| EN2997Y114-15M* | 983-1Y 14-15 P* |
| EN2997Y116-10M* | 983-1Y 16-10 P* |
| EN2997Y116-24M* | 983-1Y 16-24 P* |
| EN2997Y118-08M* | 983-1Y 18-08 P* |
| EN2997Y118-14M* | 983-1Y 18-14 P* |
| EN2997Y118-31M* | 983-1Y 18-31 P* |
| EN2997Y120-16M* | 983-1Y 20-16 P* |
| EN2997Y120-28M* | 983-1Y 20-28 P* |
| EN2997Y120-39M* | 983-1Y 20-39 P* |
| EN2997Y120-41M* | 983-1Y 20-41 P* |
| EN2997Y122-19M* | 983-1Y 22-19 P* |
| EN2997Y122-55M* | 983-1Y 22-55 P* |
| EN2997Y124-61M* | 983-1Y 24-61 P* |

N° 0005
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## 6. RECEPTACLE, ROUND FLANGE EN2997-007 Classe YE

| EN2997 | DEUTSCH |
|---|---|
| EN2997YE108-03M* | 983-1YE 08-03 P* |
| EN2997YE108-98M* | 983-1YE 08-98 P* |
| EN2997YE110-05M* | 983-1YE 10-05 P* |
| EN2997YE110-06M* | 983-1YE 10-06 P* |
| EN2997YE112-03M* | 983-1YE 12-03 P* |
| EN2997YE112-12M* | 983-1YE 12-12 P* |
| EN2997YE114-04M* | 983-1YE 14-04 P* |
| EN2997YE114-07M* | 983-1YE 14-07 P* |
| EN2997YE114-15M* | 983-1YE 14-15 P* |
| EN2997YE116-10M* | 983-1YE 16-10 P* |
| EN2997YE116-24M* | 983-1YE 16-24 P* |
| EN2997YE118-08M* | 983-1YE 18-08 P* |
| EN2997YE118-14M* | 983-1YE 18-14 P* |
| EN2997YE118-31M* | 983-1YE 18-31 P* |
| EN2997YE120-16M* | 983-1YE 20-16 P* |
| EN2997YE120-28M* | 983-1YE 20-28 P* |
| EN2997YE120-39M* | 983-1YE 20-39 P* |
| EN2997YE120-41M* | 983-1YE 20-41 P* |
| EN2997YE122-19M* | 983-1YE 22-19 P* |
| EN2997YE122-55M* | 983-1YE 22-55 P* |
| EN2997YE124-61M* | 983-1YE 24-61 P* |

* = N, 6, 7, 8 or 9 for Size 8
* = N, 6, 7, 8, 9 or YE for other Sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 209**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3152 | EN 3196-070<br>and by analogy<br>EN 3377-070 | ASD-CERT Mandated Body report for ASD-STAN EN3196-070 & 3377-070 qualification_2011-07-29<br>MBR HENRY Philippe (SNECMA) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBRE 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

22/09/2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 208**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA Fastening Systems
3000 W. Lomita Blvd
Torrance, CA 90505
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3297 | EN 3236-050<br>and by analogy<br>EN 3237-050 | Report: N°361-1<br>for_ALCOA_ACP005 Form2–<br>2015/07/02<br><br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 08/10/2015

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 208**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA Fastening Systems
3000 W. Lomita Blvd
Torrance, CA 90505
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3297 | EN 3236-050, -060, -100<br>and by analogy<br>EN 3237-050, -060, -100 | Report ESD9514 Issue 1 May 2011 and 9515 Issue 1 May 2011 Report<br>Michael Stock (Rolls-Royce)<br>and<br>ESD9534 Qual of EN3236-100 master Issue 1 February 2012<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**SEPTEMBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 02/09/2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

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1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 208**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA Fastening Systems
3000 W. Lomita Blvd
Torrance, CA 90505
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3297 | EN 3236-050, -060<br>and by analogy<br>EN 3237-050, -060 | Report ESD9514 Issue 1 May 2011<br>and 9515 Issue 1 May 2011<br>Michael Stock (Rolls-Royce) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**SEPTEMBER 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 02/09/2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 207**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 8641 | EN 3843-060 | Report: N°284 for_LISI_ACP005 Form2– Issue 1_2014/04/08<br>Michel Capblancq - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

15/12/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 207**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 8641 | EN 3843-060 | Report GP/DJ n° 18274 of 08/01/2004 and the letter for the Qualification report of 21-03-2011 Michel CAPBLANCQ - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JULY 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 01/07/2011

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

10 rue Montoyer
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 206 - Renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-<br>See Appendix for the Qualified part number list | Report: N°319 for _Deutsch _ACP005 Form2– 2015/12/10 &<br>Report: N°316 for _Deutsch _ACP005 Form2– 2015/12/10<br>Trevor Williams - QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**FEBRUARY 2019**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

25/01/2016

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Christelle Festaud, Secretary General, *+33 1 47 65 70 11*

ASD-CERT
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# PQ 206 – Appendix 1 for the Qualified part number list

**1. RECEPTACLE EN2997-003 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S00803x* | 983-0S 08-03 x* |
| EN2997S00898x* | 983-0S 08-98 x* |
| EN2997S01005x* | 983-0S 10-05 x* |
| EN2997S01006x* | 983-0S 10-06 x* |
| EN2997S01203x* | 983-0S 12-03 x* |
| EN2997S01212x* | 983-0S 12-12 x* |
| EN2997S01404x* | 983-0S 14-04 x* |
| EN2997S01407x* | 983-0S 14-07 x* |
| EN2997S01412x* | 983-0S 14-12 x* |
| EN2997S01415x* | 983-0S 14-15 x* |
| EN2997S01610x* | 983-0S 16-10 x* |
| EN2997S01624x* | 983-0S 16-24 x* |
| EN2997S01808x* | 983-0S 18-08 x* |
| EN2997S01814x* | 983-0S 18-14 x* |
| EN2997S01831x* | 983-0S 18-31 x* |
| EN2997S02016x* | 983-0S 20-16 x* |
| EN2997S02025x* | 983-0S 20-25 x* |
| EN2997S02028x* | 983-0S 20-28 x* |
| EN2997S02039x* | 983-0S 20-39 x* |
| EN2997S02041x* | 983-0S 20-41 x* |
| EN2997S02212x* | 983-0S 22-12 x* |
| EN2997S02219x* | 983-0S 22-19 x* |
| EN2997S02230x* | 983-0S 22-30 x* |
| EN2997S02232x* | 983-0S 22-32 x* |
| EN2997S02239x* | 983-0S 22-39 x* |
| EN2997S02255x* | 983-0S 22-55 x* |
| EN2997S02430x* | 983-0S 24-30 x* |
| EN2997S02457x* | 983-0S 24-57 x* |
| EN2997S02461x* | 983-0S 24-61 x* |
| EN2997S02842x* | 983-0S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

03/02/2012.
AECMA-CERT
N° 0006
The European Association of Aerospace Industries - Certification -

ASD-CERT
Certification of Aerospace Standard Products

# PQ 206 – Appendix 1 for the Qualified part number list

**2. RECEPTACLE** **EN2997-003 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE00803x* | 983-0SE 08-03 x* |
| EN2997SE00896x* | 983-0SE 08-98 x* |
| EN2997SE01005x* | 983-0SE 10-05 x* |
| EN2997SE01006x* | 983-0SE 10-06 x* |
| EN2997SE01203x* | 983-0SE 12-03 x* |
| EN2997SE01212x* | 983-0SE 12-12 x* |
| EN2997SE01404x* | 983-0SE 14-04 x* |
| EN2997SE01407x* | 983-0SE 14-07 x* |
| EN2997SE01412x* | 983-0SE 14-12 x* |
| EN2997SE01415x* | 983-0SE 14-15 x* |
| EN2997SE01610x* | 983-0SE 16-10 x* |
| EN2997SE01624x* | 983-0SE 16-24 x* |
| EN2997SE01808x* | 983-0SE 18-08 x* |
| EN2997SE01814x* | 983-0SE 18-14 x* |
| EN2997SE01831x* | 983-0SE 18-31 x* |
| EN2997SE02016x* | 983-0SE 20-16 x* |
| EN2997SE02025x* | 983-0SE 20-25 x* |
| EN2997SE02028x* | 983-0SE 20-28 x* |
| EN2997SE02039x* | 983-0SE 20-39 x* |
| EN2997SE02041x* | 983-0SE 20-41 x* |
| EN2997SE02212x* | 983-0SE 22-12 x* |
| EN2997SE02219x* | 983-0SE 22-19 x* |
| EN2997SE02230x* | 983-0SE 22-30 x* |
| EN2997SE02232x* | 983-0SE 22-32 x* |
| EN2997SE02239x* | 983-0SE 22-39 x* |
| EN2997SE02255x* | 983-0SE 22-55 x* |
| EN2997SE02430x* | 983-0SE 24-30 x* |
| EN2997SE02457x* | 983-0SE 24-57 x* |
| EN2997SE02461x* | 983-0SE 24-61 x* |
| EN2997SE02842x* | 983-0SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

Cert

02/02/2012
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N° 0006
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**3. RECEPTACLE** **EN2997-004 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S70803x* | 983-7S 08-03 x* |
| EN2997S70898x* | 983-7S 08-98 x* |
| EN2997S71005x* | 983-7S 10-05 x* |
| EN2997S71006x* | 983-7S 10-06 x* |
| EN2997S71203x* | 983-7S 12-03 x* |
| EN2997S71212x* | 983-7S 12-12 x* |
| EN2997S71404x* | 983-7S 14-04 x* |
| EN2997S71407x* | 983-7S 14-07 x* |
| EN2997S71412x* | 983-7S 14-12 x* |
| EN2997S71415x* | 983-7S 14-15 x* |
| EN2997S71610x* | 983-7S 16-10 x* |
| EN2997S71624x* | 983-7S 16-24 x* |
| EN2997S71808x* | 983-7S 18-08 x* |
| EN2997S71814x* | 983-7S 18-14 x* |
| EN2997S71831x* | 983-7S 18-31 x* |
| EN2997S72016x* | 983-7S 20-16 x* |
| EN2997S72025x* | 983-7S 20-25 x* |
| EN2997S72028x* | 983-7S 20-28 x* |
| EN2997S72039x* | 983-7S 20-39 x* |
| EN2997S72041x* | 983-7S 20-41 x* |
| EN2997S72212x* | 983-7S 22-12 x* |
| EN2997S72219x* | 983-7S 22-19 x* |
| EN2997S72230x* | 983-7S 22-30 x* |
| EN2997S72232x* | 983-7S 22-32 x* |
| EN2997S72239x* | 983-7S 22-39 x* |
| EN2997S72255x* | 983-7S 22-55 x* |
| EN2997S72430x* | 983-7S 24-30 x* |
| EN2997S72457x* | 983-7S 24-57 x* |
| EN2997S72461x* | 983-7S 24-61 x* |
| EN2997S72842x* | 983-7S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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**4. RECEPTACLE EN2997-004 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE70803x* | 983-7SE 08-03 x* |
| EN2997SE70898x* | 983-7SE 08-98 x* |
| EN2997SE71005x* | 983-7SE 10-05 x* |
| EN2997SE71006x* | 983-7SE 10-06 x* |
| EN2997SE71203x* | 983-7SE 12-03 x* |
| EN2997SE71212x* | 983-7SE 12-12 x* |
| EN2997SE71404x* | 983-7SE 14-04 x* |
| EN2997SE71407x* | 983-7SE 14-07 x* |
| EN2997SE71412x* | 983-7SE 14-12 x* |
| EN2997SE71415x* | 983-7SE 14-15 x* |
| EN2997SE71610x* | 983-7SE 16-10 x* |
| EN2997SE71624x* | 983-7SE 16-24 x* |
| EN2997SE71808x* | 983-7SE 18-08 x* |
| EN2997SE71814x* | 983-7SE 18-14 x* |
| EN2997SE71831x* | 983-7SE 18-31 x* |
| EN2997SE72016x* | 983-7SE 20-16 x* |
| EN2997SE72025x* | 983-7SE 20-25 x* |
| EN2997SE72028x* | 983-7SE 20-28 x* |
| EN2997SE72039x* | 983-7SE 20-39 x* |
| EN2997SE72041x* | 983-7SE 20-41 x* |
| EN2997SE72212x* | 983-7SE 22-12 x* |
| EN2997SE72219x* | 983-7SE 22-19 x* |
| EN2997SE72230x* | 983-7SE 22-30 x* |
| EN2997SE72232x* | 983-7SE 22-32 x* |
| EN2997SE72239x* | 983-7SE 22-39 x* |
| EN2997SE72255x* | 983-7SE 22-55 x* |
| EN2997SE72430x* | 983-7SE 24-30 x* |
| EN2997SE72457x* | 983-7SE 24-57 x* |
| EN2997SE72461x* | 983-7SE 24-61 x* |
| EN2997SE72842x* | 983-7SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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**5. PLUG** **EN2997-008 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S60803x* | 983-6S 08-03 x* |
| EN2997S60898x* | 983-6S 08-98 x* |
| EN2997S61005x* | 983-6S 10-05 x* |
| EN2997S61006x* | 983-6S 10-06 x* |
| EN2997S61203x* | 983-6S 12-03 x* |
| EN2997S61212x* | 983-6S 12-12 x* |
| EN2997S61404x* | 983-6S 14-04 x* |
| EN2997S61407x* | 983-6S 14-07 x* |
| EN2997S61412x* | 983-6S 14-12 x* |
| EN2997S61415x* | 983-6S 14-15 x* |
| EN2997S61610x* | 983-6S 16-10 x* |
| EN2997S61624x* | 983-6S 16-24 x* |
| EN2997S61808x* | 983-6S 18-08 x* |
| EN2997S61814x* | 983-6S 18-14 x* |
| EN2997S61831x* | 983-6S 18-31 x* |
| EN2997S62016x* | 983-6S 20-16 x* |
| EN2997S62025x* | 983-6S 20-25 x* |
| EN2997S62028x* | 983-6S 20-28 x* |
| EN2997S62039x* | 983-6S 20-39 x* |
| EN2997S62041x* | 983-6S 20-41 x* |
| EN2997S62212x* | 983-6S 22-12 x* |
| EN2997S62219x* | 983-6S 22-19 x* |
| EN2997S62230x* | 983-6S 22-30 x* |
| EN2997S62232x* | 983-6S 22-32 x* |
| EN2997S62239x* | 983-6S 22-39 x* |
| EN2997S62255x* | 983-6S 22-55 x* |
| EN2997S62430x* | 983-6S 24-30 x* |
| EN2997S62457x* | 983-6S 24-57 x* |
| EN2997S62461x* | 983-6S 24-61 x* |
| EN2997S62842x* | 983-6S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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**6. PLUG** **EN2997-008 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE60803x* | 983-6SE 06-03 x* |
| EN2997SE60898x* | 983-6SE 06-98 x* |
| EN2997SE61005x* | 983-6SE 10-05 x* |
| EN2997SE61006x* | 983-6SE 10-06 x* |
| EN2997SE61203x* | 983-6SE 12-03 x* |
| EN2997SE61212x* | 983-6SE 12-12 x* |
| EN2997SE61404x* | 983-6SE 14-04 x* |
| EN2997SE61407x* | 983-6SE 14-07 x* |
| EN2997SE61412x* | 983-6SE 14-12 x* |
| EN2997SE61415x* | 983-6SE 14-15 x* |
| EN2997SE61610x* | 983-6SE 16-10 x* |
| EN2997SE61624x* | 983-6SE 16-24 x* |
| EN2997SE61808x* | 983-6SE 18-08 x* |
| EN2997SE61814x* | 983-6SE 18-14 x* |
| EN2997SE61831x* | 983-6SE 18-31 x* |
| EN2997SE62016x* | 983-6SE 20-16 x* |
| EN2997SE62025x* | 983-6SE 20-25 x* |
| EN2997SE62028x* | 983-6SE 20-28 x* |
| EN2997SE62039x* | 983-6SE 20-39 x* |
| EN2997SE62041x* | 983-6SE 20-41 x* |
| EN2997SE62212x* | 983-6SE 22-12 x* |
| EN2997SE62219x* | 983-6SE 22-19 x* |
| EN2997SE62230x* | 983-6SE 22-30 x* |
| EN2997SE62232x* | 983-6SE 22-32 x* |
| EN2997SE62239x* | 983-6SE 22-39 x* |
| EN2997SE62255x* | 983-6SE 22-55 x* |
| EN2997SE62430x* | 983-6SE 24-30 x* |
| EN2997SE62457x* | 983-6SE 24-57 x* |
| EN2997SE62461x* | 983-6SE 24-61 x* |
| EN2997SE62842x* | 983-6SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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**7. PLUG** **EN2997-008 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997K60803x* | 983-6K 08-03 x* |
| EN2997K60898x* | 983-6K 08-98 x* |
| EN2997K61005x* | 983-6K 10-05 x* |
| EN2997K61006x* | 983-6K 10-06 x* |
| EN2997K61203x* | 983-6K 12-03 x* |
| EN2997K61212x* | 983-6K 12-12 x* |
| EN2997K61404x* | 983-6K 14-04 x* |
| EN2997K61407x* | 983-6K 14-07 x* |
| EN2997K61412x* | 983-6K 14-12 x* |
| EN2997K61415x* | 983-6K 14-15 x* |
| EN2997K61610x* | 983-6K 16-10 x* |
| EN2997K61624x* | 983-6K 16-24 x* |
| EN2997K61808x* | 983-6K 18-08 x* |
| EN2997K61814x* | 983-6K 18-14 x* |
| EN2997K61831x* | 983-6K 18-31 x* |
| EN2997K62016x* | 983-6K 20-16 x* |
| EN2997K62025x* | 983-6K 20-25 x* |
| EN2997K62028x* | 983-6K 20-28 x* |
| EN2997K62039x* | 983-6K 20-39 x* |
| EN2997K62041x* | 983-6K 20-41 x* |
| EN2997K62212x* | 983-6K 22-12 x* |
| EN2997K62219x* | 983-6K 22-19 x* |
| EN2997K62230x* | 983-6K 22-30 x* |
| EN2997K62232x* | 983-6K 22-32 x* |
| EN2997K62239x* | 983-6K 22-39 x* |
| EN2997K62255x* | 983-6K 22-55 x* |
| EN2997K62430x* | 983-6K 24-30 x* |
| EN2997K62457x* | 983-6K 24-57 x* |
| EN2997K62461x* | 983-6K 24-61 x* |
| EN2997K62842x* | 983-6K 28-42 x* |

x = F, B or D ; M, A or C
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**8. PLUG** **EN2997-008 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE60803x* | 983-6KE 08-03 x* |
| EN2997KE60898x* | 983-6KE 08-98 x* |
| EN2997KE61005x* | 983-6KE 10-05 x* |
| EN2997KE61006x* | 983-6KE 10-06 x* |
| EN2997KE61203x* | 983-6KE 12-03 x* |
| EN2997KE61212x* | 983-6KE 12-12 x* |
| EN2997KE61404x* | 983-6KE 14-04 x* |
| EN2997KE61407x* | 983-6KE 14-07 x* |
| EN2997KE61412x* | 983-6KE 14-12 x* |
| EN2997KE61415x* | 983-6KE 14-15 x* |
| EN2997KE61610x* | 983-6KE 16-10 x* |
| EN2997KE61624x* | 983-6KE 16-24 x* |
| EN2997KE61808x* | 983-6KE 18-08 x* |
| EN2997KE61814x* | 983-6KE 18-14 x* |
| EN2997KE61831x* | 983-6KE 18-31 x* |
| EN2997KE62016x* | 983-6KE 20-16 x* |
| EN2997KE62025x* | 983-6KE 20-25 x* |
| EN2997KE62028x* | 983-6KE 20-28 x* |
| EN2997KE62039x* | 983-6KE 20-39 x* |
| EN2997KE62041x* | 983-6KE 20-41 x* |
| EN2997KE62212x* | 983-6KE 22-12 x* |
| EN2997KE62219x* | 983-6KE 22-19 x* |
| EN2997KE62230x* | 983-6KE 22-30 x* |
| EN2997KE62232x* | 983-6KE 22-32 x* |
| EN2997KE62239x* | 983-6KE 22-39 x* |
| EN2997KE62255x* | 983-6KE 22-55 x* |
| EN2997KE62430x* | 983-6KE 24-30 x* |
| EN2997KE62457x* | 983-6KE 24-57 x* |
| EN2997KE62461x* | 983-6KE 24-61 x* |
| EN2997KE62842x* | 983-6KE 28-42 x* |

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x = F, B or D ; M, A or C
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* = N, 6, 7, 8, 9 or Y for other sizes

**9. Protective cover EN2997-009 Classes K and KE**

**10. Protective cover EN2997-010 Classes K and KE**

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# PQ 206 – APPENDIX 2 for the list of qualified Places of Manufacture and qualified Value Added Distributors

The following Places of Manufacture and Value Added Distributors are qualified:

| PLANT | ADDRESS |
|---|---|
| **Connecteurs Electriques Deutsch** | 17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| Value Added Distributor<br>PEI-Genesis | Headquarters :<br>2180 Hornig Road, Philadelphia, PA 19116 - USA<br><br>Assembly plant :<br>4747 W. Cleveland Road, South Bend, IN 46628 - USA |
| Value Added Distributor<br>**DEUTSCH DISTRIBUTION SERVICES** | Headquarters :<br>250 Eddie Jones Way, Oceanside, CA 92508 - USA<br><br>Assembly plant :<br>18249-B Hwy 98, Cash Court, building 5554-B, Foley, AL 36535 - USA |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **NEW PQ 206** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Connecteurs Electriques Deutsch<br>17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

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| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-<br>See Appendix for the Qualified part number list | Qualification Report of 01-09-2010 and Qualification report for VAD (ACP008) of 15-12-2011 & ACP008 N°272 2014-01-22<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 01/07/2011

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PQ 206 – Appendix 1 for the Qualified part number list

**1. RECEPTACLE EN2997-003 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S00803x* | 983-0S 08-03 x* |
| EN2997S00898x* | 983-0S 08-98 x* |
| EN2997S01005x* | 983-0S 10-05 x* |
| EN2997S01006x* | 983-0S 10-06 x* |
| EN2997S01203x* | 983-0S 12-03 x* |
| EN2997S01212x* | 983-0S 12-12 x* |
| EN2997S01404x* | 983-0S 14-04 x* |
| EN2997S01407x* | 983-0S 14-07 x* |
| EN2997S01412x* | 983-0S 14-12 x* |
| EN2997S01415x* | 983-0S 14-15 x* |
| EN2997S01610x* | 983-0S 16-10 x* |
| EN2997S01624x* | 983-0S 16-24 x* |
| EN2997S01808x* | 983-0S 18-08 x* |
| EN2997S01814x* | 983-0S 18-14 x* |
| EN2997S01831x* | 983-0S 18-31 x* |
| EN2997S02016x* | 983-0S 20-16 x* |
| EN2997S02025x* | 983-0S 20-25 x* |
| EN2997S02028x* | 983-0S 20-28 x* |
| EN2997S02039x* | 983-0S 20-39 x* |
| EN2997S02041x* | 983-0S 20-41 x* |
| EN2997S02212x* | 983-0S 22-12 x* |
| EN2997S02219x* | 983-0S 22-19 x* |
| EN2997S02230x* | 983-0S 22-30 x* |
| EN2997S02232x* | 983-0S 22-32 x* |
| EN2997S02239x* | 983-0S 22-39 x* |
| EN2997S02255x* | 983-0S 22-55 x* |
| EN2997S02430x* | 983-0S 24-30 x* |
| EN2997S02457x* | 983-0S 24-57 x* |
| EN2997S02461x* | 983-0S 24-61 x* |
| EN2997S02842x* | 983-0S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**2. RECEPTACLE** **EN2997-003 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE00803x* | 983-0SE 08-03 x* |
| EN2997SE00898x* | 983-0SE 08-98 x* |
| EN2997SE01005x* | 983-0SE 10-05 x* |
| EN2997SE01006x* | 983-0SE 10-06 x* |
| EN2997SE01203x* | 983-0SE 12-03 x* |
| EN2997SE01212x* | 983-0SE 12-12 x* |
| EN2997SE01404x* | 983-0SE 14-04 x* |
| EN2997SE01407x* | 983-0SE 14-07 x* |
| EN2997SE01412x* | 983-0SE 14-12 x* |
| EN2997SE01415x* | 983-0SE 14-15 x* |
| EN2997SE01610x* | 983-0SE 16-10 x* |
| EN2997SE01624x* | 983-0SE 16-24 x* |
| EN2997SE01808x* | 983-0SE 18-08 x* |
| EN2997SE01814x* | 983-0SE 18-14 x* |
| EN2997SE01831x* | 983-0SE 18-31 x* |
| EN2997SE02016x* | 983-0SE 20-16 x* |
| EN2997SE02025x* | 983-0SE 20-25 x* |
| EN2997SE02028x* | 983-0SE 20-28 x* |
| EN2997SE02039x* | 983-0SE 20-39 x* |
| EN2997SE02041x* | 983-0SE 20-41 x* |
| EN2997SE02212x* | 983-0SE 22-12 x* |
| EN2997SE02219x* | 983-0SE 22-19 x* |
| EN2997SE02230x* | 983-0SE 22-30 x* |
| EN2997SE02232x* | 983-0SE 22-32 x* |
| EN2997SE02239x* | 983-0SE 22-39 x* |
| EN2997SE02255x* | 983-0SE 22-55 x* |
| EN2997SE02430x* | 983-0SE 24-30 x* |
| EN2997SE02457x* | 983-0SE 24-57 x* |
| EN2997SE02461x* | 983-0SE 24-61 x* |
| EN2997SE02842x* | 983-0SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**3. RECEPTACLE EN2997-004 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S70803x* | 983-7S 08-03 x* |
| EN2997S70898x* | 983-7S 08-98 x* |
| EN2997S71005x* | 983-7S 10-05 x* |
| EN2997S71006x* | 983-7S 10-06 x* |
| EN2997S71203x* | 983-7S 12-03 x* |
| EN2997S71212x* | 983-7S 12-12 x* |
| EN2997S71404x* | 983-7S 14-04 x* |
| EN2997S71407x* | 983-7S 14-07 x* |
| EN2997S71412x* | 983-7S 14-12 x* |
| EN2997S71415x* | 983-7S 14-15 x* |
| EN2997S71610x* | 983-7S 16-10 x* |
| EN2997S71624x* | 983-7S 16-24 x* |
| EN2997S71808x* | 983-7S 18-08 x* |
| EN2997S71814x* | 983-7S 18-14 x* |
| EN2997S71831x* | 983-7S 18-31 x* |
| EN2997S72016x* | 983-7S 20-16 x* |
| EN2997S72025x* | 983-7S 20-25 x* |
| EN2997S72028x* | 983-7S 20-28 x* |
| EN2997S72039x* | 983-7S 20-39 x* |
| EN2997S72041x* | 983-7S 20-41 x* |
| EN2997S72212x* | 983-7S 22-12 x* |
| EN2997S72219x* | 983-7S 22-19 x* |
| EN2997S72230x* | 983-7S 22-30 x* |
| EN2997S72232x* | 983-7S 22-32 x* |
| EN2997S72239x* | 983-7S 22-39 x* |
| EN2997S72255x* | 983-7S 22-55 x* |
| EN2997S72430x* | 983-7S 24-30 x* |
| EN2997S72457x* | 983-7S 24-57 x* |
| EN2997S72461x* | 983-7S 24-61 x* |
| EN2997S72842x* | 983-7S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**4. RECEPTACLE** **EN2997-004 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE70803x* | 983-7SE 08-03 x* |
| EN2997SE70898x* | 983-7SE 08-98 x* |
| EN2997SE71005x* | 983-7SE 10-05 x* |
| EN2997SE71006x* | 983-7SE 10-06 x* |
| EN2997SE71203x* | 983-7SE 12-03 x* |
| EN2997SE71212x* | 983-7SE 12-12 x* |
| EN2997SE71404x* | 983-7SE 14-04 x* |
| EN2997SE71407x* | 983-7SE 14-07 x* |
| EN2997SE71412x* | 983-7SE 14-12 x* |
| EN2997SE71415x* | 983-7SE 14-15 x* |
| EN2997SE71610x* | 983-7SE 16-10 x* |
| EN2997SE71624x* | 983-7SE 16-24 x* |
| EN2997SE71808x* | 983-7SE 18-08 x* |
| EN2997SE71814x* | 983-7SE 18-14 x* |
| EN2997SE71831x* | 983-7SE 18-31 x* |
| EN2997SE72016x* | 983-7SE 20-16 x* |
| EN2997SE72025x* | 983-7SE 20-25 x* |
| EN2997SE72028x* | 983-7SE 20-28 x* |
| EN2997SE72039x* | 983-7SE 20-39 x* |
| EN2997SE72041x* | 983-7SE 20-41 x* |
| EN2997SE72212x* | 983-7SE 22-12 x* |
| EN2997SE72219x* | 983-7SE 22-19 x* |
| EN2997SE72230x* | 983-7SE 22-30 x* |
| EN2997SE72232x* | 983-7SE 22-32 x* |
| EN2997SE72239x* | 983-7SE 22-39 x* |
| EN2997SE72255x* | 983-7SE 22-55 x* |
| EN2997SE72430x* | 983-7SE 24-30 x* |
| EN2997SE72457x* | 983-7SE 24-57 x* |
| EN2997SE72461x* | 983-7SE 24-61 x* |
| EN2997SE72842x* | 983-7SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**5. PLUG** **EN2997-008 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S60803x* | 983-6S 08-03 x* |
| EN2997S60898x* | 983-6S 08-98 x* |
| EN2997S61005x* | 983-6S 10-05 x* |
| EN2997S61006x* | 983-6S 10-06 x* |
| EN2997S61203x* | 983-6S 12-03 x* |
| EN2997S61212x* | 983-6S 12-12 x* |
| EN2997S61404x* | 983-6S 14-04 x* |
| EN2997S61407x* | 983-6S 14-07 x* |
| EN2997S61412x* | 983-6S 14-12 x* |
| EN2997S61415x* | 983-6S 14-15 x* |
| EN2997S61610x* | 983-6S 16-10 x* |
| EN2997S61624x* | 983-6S 16-24 x* |
| EN2997S61808x* | 983-6S 18-08 x* |
| EN2997S61814x* | 983-6S 18-14 x* |
| EN2997S61831x* | 983-6S 18-31 x* |
| EN2997S62016x* | 983-6S 20-16 x* |
| EN2997S62025x* | 983-6S 20-25 x* |
| EN2997S62028x* | 983-6S 20-28 x* |
| EN2997S62039x* | 983-6S 20-39 x* |
| EN2997S62041x* | 983-6S 20-41 x* |
| EN2997S62212x* | 983-6S 22-12 x* |
| EN2997S62219x* | 983-6S 22-19 x* |
| EN2997S62230x* | 983-6S 22-30 x* |
| EN2997S62232x* | 983-6S 22-32 x* |
| EN2997S62239x* | 983-6S 22-39 x* |
| EN2997S62255x* | 983-6S 22-55 x* |
| EN2997S62430x* | 983-6S 24-30 x* |
| EN2997S62457x* | 983-6S 24-57 x* |
| EN2997S62461x* | 983-6S 24-61 x* |
| EN2997S62842x* | 983-6S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**6. PLUG** **EN2997-008 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE60803x* | 983-6SE 08-03 x* |
| EN2997SE60898x* | 983-6SE 08-98 x* |
| EN2997SE61005x* | 983-6SE 10-05 x* |
| EN2997SE61006x* | 983-6SE 10-06 x* |
| EN2997SE61203x* | 983-6SE 12-03 x* |
| EN2997SE61212x* | 983-6SE 12-12 x* |
| EN2997SE61404x* | 983-6SE 14-04 x* |
| EN2997SE61407x* | 983-6SE 14-07 x* |
| EN2997SE61412x* | 983-6SE 14-12 x* |
| EN2997SE61415x* | 983-6SE 14-15 x* |
| EN2997SE61610x* | 983-6SE 16-10 x* |
| EN2997SE61624x* | 983-6SE 16-24 x* |
| EN2997SE61808x* | 983-6SE 18-08 x* |
| EN2997SE61814x* | 983-6SE 18-14 x* |
| EN2997SE61831x* | 983-6SE 18-31 x* |
| EN2997SE62016x* | 983-6SE 20-16 x* |
| EN2997SE62025x* | 983-6SE 20-25 x* |
| EN2997SE62028x* | 983-6SE 20-28 x* |
| EN2997SE62039x* | 983-6SE 20-39 x* |
| EN2997SE62041x* | 983-6SE 20-41 x* |
| EN2997SE62212x* | 983-6SE 22-12 x* |
| EN2997SE62219x* | 983-6SE 22-19 x* |
| EN2997SE62230x* | 983-6SE 22-30 x* |
| EN2997SE62232x* | 983-6SE 22-32 x* |
| EN2997SE62239x* | 983-6SE 22-39 x* |
| EN2997SE62255x* | 983-6SE 22-55 x* |
| EN2997SE62430x* | 983-6SE 24-30 x* |
| EN2997SE62457x* | 983-6SE 24-57 x* |
| EN2997SE62461x* | 983-6SE 24-61 x* |
| EN2997SE62842x* | 983-6SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**7. PLUG** **EN2997-008 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997K60803x* | 983-6K 08-03 x* |
| EN2997K60898x* | 983-6K 08-98 x* |
| EN2997K61005x* | 983-6K 10-05 x* |
| EN2997K61006x* | 983-6K 10-06 x* |
| EN2997K61203x* | 983-6K 12-03 x* |
| EN2997K61212x* | 983-6K 12-12 x* |
| EN2997K61404x* | 983-6K 14-04 x* |
| EN2997K61407x* | 983-6K 14-07 x* |
| EN2997K61412x* | 983-6K 14-12 x* |
| EN2997K61415x* | 983-6K 14-15 x* |
| EN2997K61610x* | 983-6K 16-10 x* |
| EN2997K61624x* | 983-6K 16-24 x* |
| EN2997K61808x* | 983-6K 18-08 x* |
| EN2997K61814x* | 983-6K 18-14 x* |
| EN2997K61831x* | 983-6K 18-31 x* |
| EN2997K62016x* | 983-6K 20-16 x* |
| EN2997K62025x* | 983-6K 20-25 x* |
| EN2997K62028x* | 983-6K 20-28 x* |
| EN2997K62039x* | 983-6K 20-39 x* |
| EN2997K62041x* | 983-6K 20-41 x* |
| EN2997K62212x* | 983-6K 22-12 x* |
| EN2997K62219x* | 983-6K 22-19 x* |
| EN2997K62230x* | 983-6K 22-30 x* |
| EN2997K62232x* | 983-6K 22-32 x* |
| EN2997K62239x* | 983-6K 22-39 x* |
| EN2997K62255x* | 983-6K 22-55 x* |
| EN2997K62430x* | 983-6K 24-30 x* |
| EN2997K62457x* | 983-6K 24-57 x* |
| EN2997K62461x* | 983-6K 24-61 x* |
| EN2997K62842x* | 983-6K 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**8. PLUG** **EN2997-008 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE60803x* | 983-6KE 08-03 x* |
| EN2997KE60898x* | 983-6KE 08-98 x* |
| EN2997KE61005x* | 983-6KE 10-05 x* |
| EN2997KE61006x* | 983-6KE 10-06 x* |
| EN2997KE61203x* | 983-6KE 12-03 x* |
| EN2997KE61212x* | 983-6KE 12-12 x* |
| EN2997KE61404x* | 983-6KE 14-04 x* |
| EN2997KE61407x* | 983-6KE 14-07 x* |
| EN2997KE61412x* | 983-6KE 14-12 x* |
| EN2997KE61415x* | 983-6KE 14-15 x* |
| EN2997KE61610x* | 983-6KE 16-10 x* |
| EN2997KE61624x* | 983-6KE 16-24 x* |
| EN2997KE61808x* | 983-6KE 18-08 x* |
| EN2997KE61814x* | 983-6KE 18-14 x* |
| EN2997KE61831x* | 983-6KE 18-31 x* |
| EN2997KE62016x* | 983-6KE 20-16 x* |
| EN2997KE62025x* | 983-6KE 20-25 x* |
| EN2997KE62028x* | 983-6KE 20-28 x* |
| EN2997KE62039x* | 983-6KE 20-39 x* |
| EN2997KE62041x* | 983-6KE 20-41 x* |
| EN2997KE62212x* | 983-6KE 22-12 x* |
| EN2997KE62219x* | 983-6KE 22-19 x* |
| EN2997KE62230x* | 983-6KE 22-30 x* |
| EN2997KE62232x* | 983-6KE 22-32 x* |
| EN2997KE62239x* | 983-6KE 22-39 x* |
| EN2997KE62255x* | 983-6KE 22-55 x* |
| EN2997KE62430x* | 983-6KE 24-30 x* |
| EN2997KE62457x* | 983-6KE 24-57 x* |
| EN2997KE62461x* | 983-6KE 24-61 x* |
| EN2997KE62842x* | 983-6KE 28-42 x* |

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x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

**9. Protective cover EN2997-009 Class K, KE, S and SE**

**10. Protective cover EN2997-010 Class K, KE, S and SE**

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# PQ 206 – APPENDIX 2 for the list of qualified Places of Manufacture and qualified Value Added Distributors

The following Places of Manufacture and Value Added Distributors are qualified:

| PLANT | ADDRESS |
|---|---|
| **Connecteurs Electriques Deutsch** | 17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| Value Added Distributor<br>PEI-Genesis | Headquarters :<br>2180 Hornig Road, Philadelphia, PA 19116 - USA<br><br>Assembly plant :<br>4747 W. Cleveland Road, South Bend, IN 46628 - USA |
| Value Added Distributor<br>**DEUTSCH DISTRIBUTION SERVICES** | Headquarters :<br>250 Eddie Jones Way, Oceanside, CA 92508 - USA<br><br>Assembly plant :<br>18249-B Hwy 98, Cash Court, building 5554-B, Foley, AL 36535 - USA |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **NEW PQ 206** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Connecteurs Electriques Deutsch<br>17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-<br>See Appendix for the Qualified part number list | Qualification Report of 01-09-2010 and Qualification report for VAD (ACP008) of 15-12-2011<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 01/07/2011 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

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# PQ 206 – Appendix 1 for the Qualified part number list

**1. RECEPTACLE EN2997-003 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S00803x* | 983-0S 08-03 x* |
| EN2997S00898x* | 983-0S 08-98 x* |
| EN2997S01005x* | 983-0S 10-05 x* |
| EN2997S01006x* | 983-0S 10-06 x* |
| EN2997S01203x* | 983-0S 12-03 x* |
| EN2997S01212x* | 983-0S 12-12 x* |
| EN2997S01404x* | 983-0S 14-04 x* |
| EN2997S01407x* | 983-0S 14-07 x* |
| EN2997S01412x* | 983-0S 14-12 x* |
| EN2997S01415x* | 983-0S 14-15 x* |
| EN2997S01610x* | 983-0S 16-10 x* |
| EN2997S01624x* | 983-0S 16-24 x* |
| EN2997S01808x* | 983-0S 18-08 x* |
| EN2997S01814x* | 983-0S 18-14 x* |
| EN2997S01831x* | 983-0S 18-31 x* |
| EN2997S02016x* | 983-0S 20-16 x* |
| EN2997S02025x* | 983-0S 20-25 x* |
| EN2997S02028x* | 983-0S 20-28 x* |
| EN2997S02039x* | 983-0S 20-39 x* |
| EN2997S02041x* | 983-0S 20-41 x* |
| EN2997S02212x* | 983-0S 22-12 x* |
| EN2997S02219x* | 983-0S 22-19 x* |
| EN2997S02230x* | 983-0S 22-30 x* |
| EN2997S02232x* | 983-0S 22-32 x* |
| EN2997S02239x* | 983-0S 22-39 x* |
| EN2997S02255x* | 983-0S 22-55 x* |
| EN2997S02430x* | 983-0S 24-30 x* |
| EN2997S02457x* | 983-0S 24-57 x* |
| EN2997S02461x* | 983-0S 24-61 x* |
| EN2997S02642x* | 983-0S 26-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**2. RECEPTACLE** **EN2997-003 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE00603x* | 983-0SE 06-03 x* |
| EN2997SE00806x* | 983-0SE 08-06 x* |
| EN2997SE01005x* | 983-0SE 10-05 x* |
| EN2997SE01006x* | 983-0SE 10-06 x* |
| EN2997SE01203x* | 983-0SE 12-03 x* |
| EN2997SE01212x* | 983-0SE 12-12 x* |
| EN2997SE01404x* | 983-0SE 14-04 x* |
| EN2997SE01407x* | 983-0SE 14-07 x* |
| EN2997SE01412x* | 983-0SE 14-12 x* |
| EN2997SE01415x* | 983-0SE 14-15 x* |
| EN2997SE01610x* | 983-0SE 16-10 x* |
| EN2997SE01624x* | 983-0SE 16-24 x* |
| EN2997SE01808x* | 983-0SE 18-08 x* |
| EN2997SE01814x* | 983-0SE 18-14 x* |
| EN2997SE01831x* | 983-0SE 18-31 x* |
| EN2997SE02016x* | 983-0SE 20-16 x* |
| EN2997SE02025x* | 983-0SE 20-25 x* |
| EN2997SE02028x* | 983-0SE 20-28 x* |
| EN2997SE02039x* | 983-0SE 20-39 x* |
| EN2997SE02041x* | 983-0SE 20-41 x* |
| EN2997SE02212x* | 983-0SE 22-12 x* |
| EN2997SE02219x* | 983-0SE 22-19 x* |
| EN2997SE02230x* | 983-0SE 22-30 x* |
| EN2997SE02232x* | 983-0SE 22-32 x* |
| EN2997SE02239x* | 983-0SE 22-39 x* |
| EN2997SE02255x* | 983-0SE 22-55 x* |
| EN2997SE02430x* | 983-0SE 24-30 x* |
| EN2997SE02457x* | 983-0SE 24-57 x* |
| EN2997SE02461x* | 983-0SE 24-61 x* |
| EN2997SE02842x* | 983-0SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**3. RECEPTACLE** **EN2997-004 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S70803x* | 983-7S 08-03 x* |
| EN2997S70898x* | 983-7S 08-98 x* |
| EN2997S71005x* | 983-7S 10-05 x* |
| EN2997S71006x* | 983-7S 10-06 x* |
| EN2997S71203x* | 983-7S 12-03 x* |
| EN2997S71212x* | 983-7S 12-12 x* |
| EN2997S71404x* | 983-7S 14-04 x* |
| EN2997S71407x* | 983-7S 14-07 x* |
| EN2997S71412x* | 983-7S 14-12 x* |
| EN2997S71415x* | 983-7S 14-15 x* |
| EN2997S71610x* | 983-7S 16-10 x* |
| EN2997S71624x* | 983-7S 16-24 x* |
| EN2997S71608x* | 983-7S 16-08 x* |
| EN2997S71614x* | 983-7S 16-14 x* |
| EN2997S71631x* | 983-7S 16-31 x* |
| EN2997S72016x* | 983-7S 20-16 x* |
| EN2997S72025x* | 983-7S 20-25 x* |
| EN2997S72028x* | 983-7S 20-28 x* |
| EN2997S72039x* | 983-7S 20-39 x* |
| EN2997S72041x* | 983-7S 20-41 x* |
| EN2997S72212x* | 983-7S 22-12 x* |
| EN2997S72219x* | 983-7S 22-19 x* |
| EN2997S72230x* | 983-7S 22-30 x* |
| EN2997S72232x* | 983-7S 22-32 x* |
| EN2997S72239x* | 983-7S 22-39 x* |
| EN2997S72255x* | 983-7S 22-55 x* |
| EN2997S72430x* | 983-7S 24-30 x* |
| EN2997S72457x* | 983-7S 24-57 x* |
| EN2997S72461x* | 983-7S 24-61 x* |
| EN2997S72842x* | 983-7S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**4. RECEPTACLE EN2997-004 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE70803x* | 983-7SE 08-03 x* |
| EN2997SE70898x* | 983-7SE 08-98 x* |
| EN2997SE71005x* | 983-7SE 10-05 x* |
| EN2997SE71006x* | 983-7SE 10-06 x* |
| EN2997SE71203x* | 983-7SE 12-03 x* |
| EN2997SE71212x* | 983-7SE 12-12 x* |
| EN2997SE71404x* | 983-7SE 14-04 x* |
| EN2997SE71407x* | 983-7SE 14-07 x* |
| EN2997SE71412x* | 983-7SE 14-12 x* |
| EN2997SE71415x* | 983-7SE 14-15 x* |
| EN2997SE71610x* | 983-7SE 16-10 x* |
| EN2997SE71624x* | 983-7SE 16-24 x* |
| EN2997SE71808x* | 983-7SE 18-08 x* |
| EN2997SE71814x* | 983-7SE 18-14 x* |
| EN2997SE71831x* | 983-7SE 18-31 x* |
| EN2997SE72016x* | 983-7SE 20-16 x* |
| EN2997SE72025x* | 983-7SE 20-25 x* |
| EN2997SE72028x* | 983-7SE 20-28 x* |
| EN2997SE72039x* | 983-7SE 20-39 x* |
| EN2997SE72041x* | 983-7SE 20-41 x* |
| EN2997SE72212x* | 983-7SE 22-12 x* |
| EN2997SE72219x* | 983-7SE 22-19 x* |
| EN2997SE72230x* | 983-7SE 22-30 x* |
| EN2997SE72232x* | 983-7SE 22-32 x* |
| EN2997SE72239x* | 983-7SE 22-39 x* |
| EN2997SE72255x* | 983-7SE 22-55 x* |
| EN2997SE72430x* | 983-7SE 24-30 x* |
| EN2997SE72457x* | 983-7SE 24-57 x* |
| EN2997SE72461x* | 983-7SE 24-61 x* |
| EN2997SE72842x* | 983-7SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**5. PLUG** **EN2997-008 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S60803x* | 983-6S 08-03 x* |
| EN2997S60898x* | 983-6S 08-98 x* |
| EN2997S61005x* | 983-6S 10-05 x* |
| EN2997S61006x* | 983-6S 10-06 x* |
| EN2997S61203x* | 983-6S 12-03 x* |
| EN2997S61212x* | 983-6S 12-12 x* |
| EN2997S61404x* | 983-6S 14-04 x* |
| EN2997S61407x* | 983-6S 14-07 x* |
| EN2997S61412x* | 983-6S 14-12 x* |
| EN2997S61415x* | 983-6S 14-15 x* |
| EN2997S61610x* | 983-6S 16-10 x* |
| EN2997S61624x* | 983-6S 16-24 x* |
| EN2997S61808x* | 983-6S 18-08 x* |
| EN2997S61814x* | 983-6S 18-14 x* |
| EN2997S61831x* | 983-6S 18-31 x* |
| EN2997S62016x* | 983-6S 20-16 x* |
| EN2997S62025x* | 983-6S 20-25 x* |
| EN2997S62028x* | 983-6S 20-28 x* |
| EN2997S62039x* | 983-6S 20-39 x* |
| EN2997S62041x* | 983-6S 20-41 x* |
| EN2997S62212x* | 983-6S 22-12 x* |
| EN2997S62219x* | 983-6S 22-19 x* |
| EN2997S62230x* | 983-6S 22-30 x* |
| EN2997S62232x* | 983-6S 22-32 x* |
| EN2997S62239x* | 983-6S 22-39 x* |
| EN2997S62255x* | 983-6S 22-55 x* |
| EN2997S62430x* | 983-6S 24-30 x* |
| EN2997S62457x* | 983-6S 24-57 x* |
| EN2997S62461x* | 983-6S 24-61 x* |
| EN2997S62842x* | 983-6S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**6. PLUG** **EN2997-008 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE60803x* | 983-6SE 08-03 x* |
| EN2997SE60898x* | 983-6SE 08-98 x* |
| EN2997SE61005x* | 983-6SE 10-05 x* |
| EN2997SE61006x* | 983-6SE 10-06 x* |
| EN2997SE61203x* | 983-6SE 12-03 x* |
| EN2997SE61212x* | 983-6SE 12-12 x* |
| EN2997SE61404x* | 983-6SE 14-04 x* |
| EN2997SE61407x* | 983-6SE 14-07 x* |
| EN2997SE61412x* | 983-6SE 14-12 x* |
| EN2997SE61415x* | 983-6SE 14-15 x* |
| EN2997SE61610x* | 983-6SE 16-10 x* |
| EN2997SE61624x* | 983-6SE 16-24 x* |
| EN2997SE61808x* | 983-6SE 18-08 x* |
| EN2997SE61814x* | 983-6SE 18-14 x* |
| EN2997SE61831x* | 983-6SE 18-31 x* |
| EN2997SE62016x* | 983-6SE 20-16 x* |
| EN2997SE62025x* | 983-6SE 20-25 x* |
| EN2997SE62028x* | 983-6SE 20-28 x* |
| EN2997SE62039x* | 983-6SE 20-39 x* |
| EN2997SE62041x* | 983-6SE 20-41 x* |
| EN2997SE62212x* | 983-6SE 22-12 x* |
| EN2997SE62219x* | 983-6SE 22-19 x* |
| EN2997SE62230x* | 983-6SE 22-30 x* |
| EN2997SE62232x* | 983-6SE 22-32 x* |
| EN2997SE62239x* | 983-6SE 22-39 x* |
| EN2997SE62255x* | 983-6SE 22-55 x* |
| EN2997SE62430x* | 983-6SE 24-30 x* |
| EN2997SE62457x* | 983-6SE 24-57 x* |
| EN2997SE62461x* | 983-6SE 24-61 x* |
| EN2997SE62842x* | 983-6SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix 1 for the Qualified part number list

**7. PLUG** **EN2997-008 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997K60803x* | 983-6K 08-03 x* |
| EN2997K60898x* | 983-6K 08-98 x* |
| EN2997K61005x* | 983-6K 10-05 x* |
| EN2997K61006x* | 983-6K 10-06 x* |
| EN2997K61203x* | 983-6K 12-03 x* |
| EN2997K61212x* | 983-6K 12-12 x* |
| EN2997K61404x* | 983-6K 14-04 x* |
| EN2997K61407x* | 983-6K 14-07 x* |
| EN2997K61412x* | 983-6K 14-12 x* |
| EN2997K61415x* | 983-6K 14-15 x* |
| EN2997K61610x* | 983-6K 16-10 x* |
| EN2997K61624x* | 983-6K 16-24 x* |
| EN2997K61808x* | 983-6K 18-08 x* |
| EN2997K61814x* | 983-6K 18-14 x* |
| EN2997K61831x* | 983-6K 18-31 x* |
| EN2997K62016x* | 983-6K 20-16 x* |
| EN2997K62025x* | 983-6K 20-25 x* |
| EN2997K62028x* | 983-6K 20-28 x* |
| EN2997K62039x* | 983-6K 20-39 x* |
| EN2997K62041x* | 983-6K 20-41 x* |
| EN2997K62212x* | 983-6K 22-12 x* |
| EN2997K62219x* | 983-6K 22-19 x* |
| EN2997K62230x* | 983-6K 22-30 x* |
| EN2997K62232x* | 983-6K 22-32 x* |
| EN2997K62239x* | 983-6K 22-39 x* |
| EN2997K62256x* | 983-6K 22-55 x* |
| EN2997K62430x* | 983-6K 24-30 x* |
| EN2997K62457x* | 983-6K 24-57 x* |
| EN2997K62461x* | 983-6K 24-61 x* |
| EN2997K62842x* | 983-6K 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
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# PQ 206 – Appendix 1 for the Qualified part number list

**8. PLUG** **EN2997-008 Class KE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE60803x* | 983-6KE 08-03 x* |
| EN2997KE60898x* | 983-6KE 08-98 x* |
| EN2997KE61005x* | 983-6KE 10-05 x* |
| EN2997KE61006x* | 983-6KE 10-06 x* |
| EN2997KE61203x* | 983-6KE 12-03 x* |
| EN2997KE61212x* | 983-6KE 12-12 x* |
| EN2997KE61404x* | 983-6KE 14-04 x* |
| EN2997KE61407x* | 983-6KE 14-07 x* |
| EN2997KE61412x* | 983-6KE 14-12 x* |
| EN2997KE61415x* | 983-6KE 14-15 x* |
| EN2997KE61610x* | 983-6KE 16-10 x* |
| EN2997KE61624x* | 983-6KE 16-24 x* |
| EN2997KE61808x* | 983-6KE 18-08 x* |
| EN2997KE61814x* | 983-6KE 18-14 x* |
| EN2997KE61831x* | 983-6KE 18-31 x* |
| EN2997KE62016x* | 983-6KE 20-16 x* |
| EN2997KE62025x* | 983-6KE 20-25 x* |
| EN2997KE62026x* | 983-6KE 20-26 x* |
| EN2997KE62039x* | 983-6KE 20-39 x* |
| EN2997KE62041x* | 983-6KE 20-41 x* |
| EN2997KE62212x* | 983-6KE 22-12 x* |
| EN2997KE62219x* | 983-6KE 22-19 x* |
| EN2997KE62230x* | 983-6KE 22-30 x* |
| EN2997KE62232x* | 983-6KE 22-32 x* |
| EN2997KE62239x* | 983-6KE 22-39 x* |
| EN2997KE62255x* | 983-6KE 22-55 x* |
| EN2997KE62430x* | 983-6KE 24-30 x* |
| EN2997KE62457x* | 983-6KE 24-57 x* |
| EN2997KE62461x* | 983-6KE 24-61 x* |
| EN2997KE62842x* | 983-6KE 28-42 x* |

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x = F, S or D ; M, A or C
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**9. Protective cover EN2997-009 Class K, KE, S and SE**

**10. Protective cover EN2997-010 Class K, KE, S and SE**

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# PQ 206 – APPENDIX 2 for the list of qualified Places of Manufacture and qualified Value Added Distributors

The following Places of Manufacture and Value Added Distributors are qualified:

| PLANT | ADDRESS |
|---|---|
| **Connecteurs Electriques Deutsch** | 17, Rue Lavoisier ZI N°2 BP117<br>27091 EVREUX Cedex<br>France |
| Value Added Distributor<br>PEI-Genesis | Headquarters :<br>2180 Hornig Road, Philadelphia, PA 19116 - USA<br><br>Assembly plant :<br>4747 W. Cleveland Road, South Bend, IN 46628 - USA |
| Value Added Distributor<br>**DEUTSCH DISTRIBUTION SERVICES** | Headquarters :<br>250 Eddie Jones Way, Oceanside, CA 92508 - USA<br><br>Assembly plant :<br>18249-B Hwy 98, Cash Court, building 5554-B, Foley, AL 36535 - USA |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 206**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-<br>See Appendix for the Qualified part number list | Qualification Report of 01-09-2010<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 01/07/2011

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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# PQ 206 – Appendix for the Qualified part number list

## 1. RECEPTACLE EN2997-003 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S00803x* | 983-0S 08-03 x* |
| EN2997S00898x* | 983-0S 08-98 x* |
| EN2997S01005x* | 983-0S 10-05 x* |
| EN2997S01006x* | 983-0S 10-06 x* |
| EN2997S01203x* | 983-0S 12-03 x* |
| EN2997S01212x* | 983-0S 12-12 x* |
| EN2997S01404x* | 983-0S 14-04 x* |
| EN2997S01407x* | 983-0S 14-07 x* |
| EN2997S01412x* | 983-0S 14-12 x* |
| EN2997S01415x* | 983-0S 14-15 x* |
| EN2997S01610x* | 983-0S 16-10 x* |
| EN2997S01624x* | 983-0 S 16-24 x* |
| EN2997S01808x* | 983-0 S 18-08 x* |
| EN2997S01814x* | 983-0 S 18-14 x* |
| EN2997S01831x* | 983-0 S 18-31 x* |
| EN2997S02016x* | 983-0 S 20-16 x* |
| EN2997S02025x* | 983-0 S 20-25 x* |
| EN2997S02028x* | 983-0 S 20-28 x* |
| EN2997S02039x* | 983-0 S 20-39 x* |
| EN2997S02041x* | 983-0S 20-41 x* |
| EN2997S02212x* | 983-0S 22-12 x* |
| EN2997S02219x* | 983-0S 22-19 x* |
| EN2997S02230x* | 983-0S 22-30 x* |
| EN2997S02232x* | 983-0S 22-32 x* |
| EN2997S02239x* | 983-0 S 22-39 x* |
| EN2997S02255x* | 983-0S 22-55 x* |
| EN2997S02430x* | 983-0S 24-30 x* |
| EN2997S02457x* | 983-0S 24-57 x* |
| EN2997S02461x* | 983-0S 24-61 x* |
| EN2997S02842x* | 983-0S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix for the Qualified part number list

## 2. RECEPTACLE EN2997-003 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE00803x* | 983-0SE 08-03 x* |
| EN2997SE00898x* | 983-0SE 08-98 x* |
| EN2997SE01005x* | 983-0SE 10-05 x* |
| EN2997SE01006x* | 983-0SE 10-06 x* |
| EN2997SE01203x* | 983-0SE 12-03 x* |
| EN2997SE01212x* | 983-0SE 12-12 x* |
| EN2997SE01404x* | 983-0SE 14-04 x* |
| EN2997SE01407x* | 983-0SE 14-07 x* |
| EN2997SE01412x* | 983-0SE 14-12 x* |
| EN2997SE01415x* | 983-0SE 14-15 x* |
| EN2997SE01610x* | 983-0SE 16-10 x* |
| EN2997SE01624x* | 983-0SE 16-24 x* |
| EN2997SE01808x* | 983-0SE 18-08 x* |
| EN2997SE01814x* | 983-0SE 18-14 x* |
| EN2997SE01831x* | 983-0SE 18-31 x* |
| EN2997SE02016x* | 983-0SE 20-16 x* |
| EN2997SE02025x* | 983-0SE 20-25 x* |
| EN2997SE02028x* | 983-0SE 20-28 x* |
| EN2997SE02039x* | 983-0SE 20-39 x* |
| EN2997SE02041x* | 983-0SE 20-41 x* |
| EN2997SE02212x* | 983-0SE 22-12 x* |
| EN2997SE02219x* | 983-0SE 22-19 x* |
| EN2997SE02230x* | 983-0SE 22-30 x* |
| EN2997SE02232x* | 983-0SE 22-32 x* |
| EN2997SE02239x* | 983-0SE 22-39 x* |
| EN2997SE02255x* | 983-0SE 22-55 x* |
| EN2997SE02430x* | 983-0SE 24-30 x* |
| EN2997SE02457x* | 983-0SE 24-57 x* |
| EN2997SE02461x* | 983-0SE 24-61 x* |
| EN2997SE02842x* | 983-0SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix for the Qualified part number list

**3. RECEPTACLE** **EN2997-004 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S70803x* | 983-7S 08-03 x* |
| EN2997S70898x* | 983-7S 08-98 x* |
| EN2997S71005x* | 983-7S 10-05 x* |
| EN2997S71006x* | 983-7S 10-06 x* |
| EN2997S71203x* | 983-7S 12-03 x* |
| EN2997S71212x* | 983-7S 12-12 x* |
| EN2997S71404x* | 983-7S 14-04 x* |
| EN2997S71407x* | 983-7S 14-07 x* |
| EN2997S71412x* | 983-7S 14-12 x* |
| EN2997S71415x* | 983-7S 14-15 x* |
| EN2997S71610x* | 983-7S 16-10 x* |
| EN2997S71624x* | 983-7S 16-24 x* |
| EN2997S71808x* | 983-7S 18-08 x* |
| EN2997S71814x* | 983-7S 18-14 x* |
| EN2997S71831x* | 983-7S 18-31 x* |
| EN2997S72016x* | 983-7S 20-16 x* |
| EN2997S72025x* | 983-7S 20-25 x* |
| EN2997S72028x* | 983-7S 20-28 x* |
| EN2997S72039x* | 983-7S 20-39 x* |
| EN2997S72041x* | 983-7S 20-41 x* |
| EN2997S72212x* | 983-7S 22-12 x* |
| EN2997S72219x* | 983-7S 22-19 x* |
| EN2997S72230x* | 983-7S 22-30 x* |
| EN2997S72232x* | 983-7S 22-32 x* |
| EN2997S72239x* | 983-7S 22-39 x* |
| EN2997S72255x* | 983-7S 22-55 x* |
| EN2997S72430x* | 983-7S 24-30 x* |
| EN2997S72457x* | 983-7S 24-57 x* |
| EN2997S72461x* | 983-7S 24-61 x* |
| EN2997S72842x* | 983-7S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix for the Qualified part number list

**4. RECEPTACLE** **EN2997-004 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE70803x* | 983-7SE 08-03 x* |
| EN2997SE70898x* | 983-7SE 08-98 x* |
| EN2997SE71005x* | 983-7SE 10-05 x* |
| EN2997SE71006x* | 983-7SE 10-06 x* |
| EN2997SE71203x* | 983-7SE 12-03 x* |
| EN2997SE71212x* | 983-7SE 12-12 x* |
| EN2997SE71404x* | 983-7SE 14-04 x* |
| EN2997SE71407x* | 983-7SE 14-07 x* |
| EN2997SE71412x* | 983-7SE 14-12 x* |
| EN2997SE71415x* | 983-7SE 14-15 x* |
| EN2997SE71610x* | 983-7SE 16-10 x* |
| EN2997SE71624x* | 983-7SE 16-24 x* |
| EN2997SE71808x* | 983-7SE 18-08 x* |
| EN2997SE71814x* | 983-7SE 18-14 x* |
| EN2997SE71831x* | 983-7SE 18-31 x* |
| EN2997SE72016x* | 983-7SE 20-16 x* |
| EN2997SE72025x* | 983-7SE 20-25 x* |
| EN2997SE72028x* | 983-7SE 20-28 x* |
| EN2997SE72039x* | 983-7SE 20-39 x* |
| EN2997SE72041x* | 983-7SE 20-41 x* |
| EN2997SE72212x* | 983-7SE 22-12 x* |
| EN2997SE72219x* | 983-7SE 22-19 x* |
| EN2997SE72230x* | 983-7SE 22-30 x* |
| EN2997SE72232x* | 983-7SE 22-32 x* |
| EN2997SE72239x* | 983-7SE 22-39 x* |
| EN2997SE72255x* | 983-7SE 22-55 x* |
| EN2997SE72430x* | 983-7SE 24-30 x* |
| EN2997SE72457x* | 983-7SE 24-57 x* |
| EN2997SE72461x* | 983-7SE 24-61 x* |
| EN2997SE72842x* | 983-7SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix for the Qualified part number list

**5. PLUG** **EN2997-008 Class S**

| EN2997 | DEUTSCH |
|---|---|
| EN2997S60803x* | 983-6S 08-03 x* |
| EN2997S60898x* | 983-6S 08-98 x* |
| EN2997S61005x* | 983-6S 10-05 x* |
| EN2997S61006x* | 983-6S 10-06 x* |
| EN2997S61203x* | 983-6S 12-03 x* |
| EN2997S61212x* | 983-6S 12-12 x* |
| EN2997S61404x* | 983-6S 14-04 x* |
| EN2997S61407x* | 983-6S 14-07 x* |
| EN2997S61412x* | 983-6S 14-12 x* |
| EN2997S61415x* | 983-6S 14-15 x* |
| EN2997S61610x* | 983-6S 16-10 x* |
| EN2997S61624x* | 983-6S 16-24 x* |
| EN2997S61808x* | 983-6S 18-08 x* |
| EN2997S61814x* | 983-6S 18-14 x* |
| EN2997S61831x* | 983-6S 18-31 x* |
| EN2997S62016x* | 983-6S 20-16 x* |
| EN2997S62025x* | 983-6S 20-25 x* |
| EN2997S62028x* | 983-6S 20-28 x* |
| EN2997S62039x* | 983-6S 20-39 x* |
| EN2997S62041x* | 983-6S 20-41 x* |
| EN2997S62212x* | 983-6S 22-12 x* |
| EN2997S62219x* | 983-6S 22-19 x* |
| EN2997S62230x* | 983-6S 22-30 x* |
| EN2997S62232x* | 983-6S 22-32 x* |
| EN2997S62239x* | 983-6S 22-39 x* |
| EN2997S62255x* | 983-6S 22-55 x* |
| EN2997S62430x* | 983-6S 24-30 x* |
| EN2997S62457x* | 983-6S 24-57 x* |
| EN2997S62461x* | 983-6S 24-61 x* |
| EN2997S62842x* | 983-6S 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix for the Qualified part number list

**6. PLUG** **EN2997-008 Class SE**

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE60803x* | 983-6SE 08-03 x* |
| EN2997SE60898x* | 983-6SE 08-98 x* |
| EN2997SE61005x* | 983-6SE 10-05 x* |
| EN2997SE61006x* | 983-6SE 10-06 x* |
| EN2997SE61203x* | 983-6SE 12-03 x* |
| EN2997SE61212x* | 983-6SE 12-12 x* |
| EN2997SE61404x* | 983-6SE 14-04 x* |
| EN2997SE61407x* | 983-6SE 14-07 x* |
| EN2997SE61412x* | 983-6SE 14-12 x* |
| EN2997SE61415x* | 983-6SE 14-15 x* |
| EN2997SE61610x* | 983-6SE 16-10 x* |
| EN2997SE61624x* | 983-6SE 16-24 x* |
| EN2997SE61808x* | 983-6SE 18-08 x* |
| EN2997SE61814x* | 983-6SE 18-14 x* |
| EN2997SE61831x* | 983-6SE 18-31 x* |
| EN2997SE62016x* | 983-6SE 20-16 x* |
| EN2997SE62025x* | 983-6SE 20-25 x* |
| EN2997SE62028x* | 983-6SE 20-28 x* |
| EN2997SE62039x* | 983-6SE 20-39 x* |
| EN2997SE62041x* | 983-6SE 20-41 x* |
| EN2997SE62212x* | 983-6SE 22-12 x* |
| EN2997SE62219x* | 983-6SE 22-19 x* |
| EN2997SE62230x* | 983-6SE 22-30 x* |
| EN2997SE62232x* | 983-6SE 22-32 x* |
| EN2997SE62239x* | 983-6SE 22-39 x* |
| EN2997SE62255x* | 983-6SE 22-55 x* |
| EN2997SE62430x* | 983-6SE 24-30 x* |
| EN2997SE62457x* | 983-6SE 24-57 x* |
| EN2997SE62461x* | 983-6SE 24-61 x* |
| EN2997SE62842x* | 983-6SE 28-42 x* |

x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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# PQ 206 – Appendix for the Qualified part number list

**7. PLUG** **EN2997-008 Class K**

| EN2997 | DEUTSCH |
|---|---|
| EN2997K60803x* | 983-6K 08-03 x* |
| EN2997K60898x* | 983-6K 08-98 x* |
| EN2997K61005x* | 983-6K 10-05 x* |
| EN2997K61006x* | 983-6K 10-06 x* |
| EN2997K61203x* | 983-6K 12-03 x* |
| EN2997K61212x* | 983-6K 12-12 x* |
| EN2997K61404x* | 983-6K 14-04 x* |
| EN2997K61407x* | 983-6K 14-07 x* |
| EN2997K61412x* | 983-6K 14-12 x* |
| EN2997K61415x* | 983-6K 14-15 x* |
| EN2997K61610x* | 983-6K 16-10 x* |
| EN2997K61624x* | 983-6K 16-24 x* |
| EN2997K61808x* | 983-6K 18-08 x* |
| EN2997K61814x* | 983-6K 18-14 x* |
| EN2997K61831x* | 983-6K 18-31 x* |
| EN2997K62016x* | 983-6K 20-16 x* |
| EN2997K62025x* | 983-6K 20-25 x* |
| EN2997K62028x* | 983-6K 20-28 x* |
| EN2997K62039x* | 983-6K 20-39 x* |
| EN2997K62041x* | 983-6K 20-41 x* |
| EN2997K62212x* | 983-6K 22-12 x* |
| EN2997K62219x* | 983-6K 22-19 x* |
| EN2997K62230x* | 983-6K 22-30 x* |
| EN2997K62232x* | 983-6K 22-32 x* |
| EN2997K62239x* | 983-6K 22-39 x* |
| EN2997K62255x* | 983-6K 22-55 x* |
| EN2997K62430x* | 983-6K 24-30 x* |
| EN2997K62457x* | 983-6K 24-57 x* |
| EN2997K62461x* | 983-6K 24-61 x* |
| EN2997K62842x* | 983-6K 28-42 x* |

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x = F, B or D ; M, A or C
* = N, 6, 7, 8 or 9 for size 8
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# PQ 206 – Appendix for the Qualified part number list

8. PLUG EN2997-008 Class KE

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE60803x* | 983-6KE 08-03 x* |
| EN2997KE60898x* | 983-6KE 08-98 x* |
| EN2997KE61005x* | 983-6KE 10-05 x* |
| EN2997KE61006x* | 983-6KE 10-06 x* |
| EN2997KE61203x* | 983-6KE 12-03 x* |
| EN2997KE61212x* | 983-6KE 12-12 x* |
| EN2997KE61404x* | 983-6KE 14-04 x* |
| EN2997KE61407x* | 983-6KE 14-07 x* |
| EN2997KE61412x* | 983-6KE 14-12 x* |
| EN2997KE61415x* | 983-6KE 14-15 x* |
| EN2997KE61610x* | 983-6KE 16-10 x* |
| EN2997KE61624x* | 983-6KE 16-24 x* |
| EN2997KE61808x* | 983-6KE 18-08 x* |
| EN2997KE61814x* | 983-6KE 18-14 x* |
| EN2997KE61831x* | 983-6KE 18-31 x* |
| EN2997KE62016x* | 983-6KE 20-16 x* |
| EN2997KE62025x* | 983-6KE 20-25 x* |
| EN2997KE62028x* | 983-6KE 20-28 x* |
| EN2997KE62039x* | 983-6KE 20-39 x* |
| EN2997KE62041x* | 983-6KE 20-41 x* |
| EN2997KE62212x* | 983-6KE 22-12 x* |
| EN2997KE62219x* | 983-6KE 22-19 x* |
| EN2997KE62230x* | 983-6KE 22-30 x* |
| EN2997KE62232x* | 983-6KE 22-32 x* |
| EN2997KE62239x* | 983-6KE 22-39 x* |
| EN2997KE62255x* | 983-6KE 22-55 x* |
| EN2997KE62430x* | 983-6KE 24-30 x* |
| EN2997KE62457x* | 983-6KE 24-57 x* |
| EN2997KE62461x* | 983-6KE 24-61 x* |
| EN2997KE62842x* | 983-6KE 28-42 x* |

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x = F, B or D ; M, A or C
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* = N, 6, 7, 8, 9 or Y for other sizes

**9. Protective cover EN2997-009 Class K, KE, S and SE**

**10. Protective cover EN2997-010 Class K, KE, S and SE**

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Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 206**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Connecteurs Electriques Deutsch
17, Rue Lavoisier ZI N°2 BP117
27091 EVREUX Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-<br>See Appendix for the Qualified part number list | Qualification Report of 01-09-2010<br>Christian Mazelle - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 01/07/2011

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# Appendix - Qualified part number list

## 1. RECEPTACLE EN2997-003 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S0 08-03 x* | 983-0S 08-03 x* |
| EN2997S0 08-98 x* | 983-0S 08-98 x* |
| EN2997S0 10-05 x* | 983-0S 10-05 x* |
| EN2997S0 10-06 x* | 983-0S 10-06 x* |
| EN2997S0 12-03 x* | 983-0S 12-03 x* |
| EN2997S0 12-12 x* | 983-0S 12-12 x* |
| EN2997S0 14-04 x* | 983-0S 14-04 x* |
| EN2997S0 14-07x* | 983-0S 14-07 x* |
| EN2997S0 14-12 x* | 983-0S 14-12 x* |
| EN2997S0 14-15 x* | 983-0S 14-15 x* |
| EN2997S0 16-10 x* | 983-0S 16-10 x* |
| EN2997S0 16-24 x* | 983-0S 16-24 x* |
| EN2997S0 18-08 x* | 983-0S 18-08 x* |
| EN2997S0 18-14 x* | 983-0S 18-14 x* |
| EN2997S0 18-31 x* | 983-0S 18-31 x* |
| EN2997S0 20-16 x* | 983-0S 20-16 x* |
| EN2997S0 20-25 x* | 983-0S 20-25 x* |
| EN2997S0 20-28 x* | 983-0S 20-28 x* |
| EN2997S0 20-30 x* | 983-0S 20-30 x* |
| EN2997S0 20-32 x* | 983-0S 20-32 x* |
| EN2997S0 20-39 x* | 983-0S 20-39 x* |
| EN2997S0 20-41 x* | 983-0S 20-41 x* |
| EN2997S0 22-12 x* | 983-0S 22-12 x* |
| EN2997S0 22-19 x* | 983-0S 22-19 x* |
| EN2997S0 22-39 x* | 983-0S 22-39 x* |
| EN2997S0 22-55 x* | 983-0S 22-55 x* |
| EN2997S0 24-30 x* | 983-0S 24-30 x* |
| EN2997S0 24-57 x* | 983-0S 24-57 x* |
| EN2997S0 24-61 x* | 983-0S 24-61 x* |
| EN2997S0 28-42 x* | 983-0S 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## 2. RECEPTACLE EN2997-003 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE0 08-03 x* | 983-0SE 08-03 x* |
| EN2997SE0 08-98 x* | 983-0SE 08-98 x* |
| EN2997SE0 10-05 x* | 983-0SE 10-05 x* |
| EN2997SE0 10-06 x* | 983-0SE 10-06 x* |
| EN2997SE0 12-03 x* | 983-0SE 12-03 x* |
| EN2997SE0 12-12 x* | 983-0SE 12-12 x* |
| EN2997SE0 14-04 x* | 983-0SE 14-04 x* |
| EN2997SE0 14-07 x* | 983-0SE 14-07 x* |
| EN2997SE0 14-12 x* | 983-0SE 14-12 x* |
| EN2997SE0 14-15 x* | 983-0SE 14-15 x* |
| EN2997SE0 16-10 x* | 983-0SE 16-10 x* |
| EN2997SE0 16-24 x* | 983-0SE 16-24 x* |
| EN2997SE0 18-08 x* | 983-0SE 18-08 x* |
| EN2997SE0 18-14 x* | 983-0SE 18-14 x* |
| EN2997SE0 18-31 x* | 983-0SE 18-31 x* |
| EN2997SE0 20-16 x* | 983-0SE 20-16 x* |
| EN2997SE0 20-25 x* | 983-0SE 20-25 x* |
| EN2997SE0 20-28 x* | 983-0SE 20-28 x* |
| EN2997SE0 20-30 x* | 983-0SE 20-30 x* |
| EN2997SE0 20-32 x* | 983-0SE 20-32 x* |
| EN2997SE0 20-39 x* | 983-0SE 20-39 x* |
| EN2997SE0 20-41 x* | 983-0SE 20-41 x* |
| EN2997SE0 22-12 x* | 983-0SE 22-12 x* |
| EN2997SE0 22-19 x* | 983-0SE 22-19 x* |
| EN2997SE0 22-39 x* | 983-0SE 22-39 x* |
| EN2997SE0 22-55 x* | 983-0SE 22-55 x* |
| EN2997SE0 24-30 x* | 983-0SE 24-30 x* |
| EN2997SE0 24-57 x* | 983-0SE 24-57 x* |
| EN2997SE0 24-61 x* | 983-0SE 24-61 x* |
| EN2997SE0 28-42 x* | 983-0SE 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## 3. RECEPTACLE EN2997-004 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S7 08-03 x* | 983-7S 08-03 x* |
| EN2997S7 08-98 x* | 983-7S 08-98 x* |
| EN2997S7 10-05 x* | 983-7S 10-05 x* |
| EN2997S7 10-06 x* | 983-7S 10-06 x* |
| EN2997S7 12-03 x* | 983-7S 12-03 x* |
| EN2997S7 12-12 x* | 983-7S 12-12 x* |
| EN2997S7 14-04 x* | 983-7S 14-04 x* |
| EN2997S7 14-07 x* | 983-7S 14-07 x* |
| EN2997S7 14-12 x* | 983-7S 14-12 x* |
| EN2997S7 14-15 x* | 983-7S 14-15 x* |
| EN2997S7 16-10 x* | 983-7S 16-10 x* |
| EN2997S7 16-24 x* | 983-7S 16-24 x* |
| EN2997S7 18-08 x* | 983-7S 18-08 x* |
| EN2997S7 18-14 x* | 983-7S 18-14 x* |
| EN2997S7 18-31 x* | 983-7S 18-31 x* |
| EN2997S7 20-16 x* | 983-7S 20-16 x* |
| EN2997S7 20-25 x* | 983-7S 20-25 x* |
| EN2997S7 20-28 x* | 983-7S 20-28 x* |
| EN2997S7 20-30 x* | 983-7S 20-30 x* |
| EN2997S7 20-32 x* | 983-7S 20-32 x* |
| EN2997S7 20-39 x* | 983-7S 20-39 x* |
| EN2997S7 20-41 x* | 983-7S 20-41 x* |
| EN2997S7 22-12 x* | 983-7S 22-12 x* |
| EN2997S7 22-19 x* | 983-7S 22-19 x* |
| EN2997S7 22-39 x* | 983-7S 22-39 x* |
| EN2997S7 22-55 x* | 983-7S 22-55 x* |
| EN2997S7 24-30 x* | 983-7S 24-30 x* |
| EN2997S7 24-57 x* | 983-7S 24-57 x* |
| EN2997S7 24-61 x* | 983-7S 24-61 x* |
| EN2997S7 28-42 x* | 983-7S 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## 4. RECEPTACLE EN2997-004 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE7 08-03 x* | 983-7SE 08-03 x* |
| EN2997SE7 08-98 x* | 983-7SE 08-98 x* |
| EN2997SE7 10-05 x* | 983-7SE 10-05 x* |
| EN2997SE7 10-06 x* | 983-7SE 10-06 x* |
| EN2997SE7 12-03 x* | 983-7SE 12-03 x* |
| EN2997SE7 12-12 x* | 983-7SE 12-12 x* |
| EN2997SE7 14-04 x* | 983-7SE 14-04 x* |
| EN2997SE7 14-07 x* | 983-7SE 14-07 x* |
| EN2997SE7 14-12 x* | 983-7SE 14-12 x* |
| EN2997SE7 14-15 x* | 983-7SE 14-15 x* |
| EN2997SE7 16-10 x* | 983-7SE 16-10 x* |
| EN2997SE7 16-24 x* | 983-7SE 16-24 x* |
| EN2997SE7 18-08 x* | 983-7SE 18-08 x* |
| EN2997SE7 18-14 x* | 983-7SE 18-14 x* |
| EN2997SE7 18-31 x* | 983-7SE 18-31 x* |
| EN2997SE7 20-16 x* | 983-7SE 20-16 x* |
| EN2997SE7 20-25 x* | 983-7SE 20-25 x* |
| EN2997SE7 20-28 x* | 983-7SE 20-28 x* |
| EN2997SE7 20-30 x* | 983-7SE 20-30 x* |
| EN2997SE7 20-32 x* | 983-7SE 20-32 x* |
| EN2997SE7 20-39 x* | 983-7SE 20-39 x* |
| EN2997SE7 20-41 x* | 983-7SE 20-41 x* |
| EN2997SE7 22-12 x* | 983-7SE 22-12 x* |
| EN2997SE7 22-19 x* | 983-7SE 22-19 x* |
| EN2997SE7 22-39 x* | 983-7SE 22-39 x* |
| EN2997SE7 22-55 x* | 983-7SE 22-55 x* |
| EN2997SE7 24-30 x* | 983-7SE 24-30 x* |
| EN2997SE7 24-57 x* | 983-7SE 24-57 x* |
| EN2997SE7 24-61 x* | 983-7SE 24-61 x* |
| EN2997SE7 28-42 x* | 983-7SE 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

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## 5. PLUG EN2997-008 Class S

| EN2997 | DEUTSCH |
|---|---|
| EN2997S6 08-03 x* | 983-6S 08-03 x* |
| EN2997S6 08-98 x* | 983-6S 08-98 x* |
| EN2997S6 10-05 x* | 983-6S 10-05 x* |
| EN2997S6 10-06 x* | 983-6S 10-06 x* |
| EN2997S6 12-03 x* | 983-6S 12-03 x* |
| EN2997S6 12-12 x* | 983-6S 12-12 x* |
| EN2997S6 14-04 x* | 983-6S 14-04 x* |
| EN2997S6 14-07 x* | 983-6S 14-07 x* |
| EN2997S6 14-12 x* | 983-6S 14-12 x* |
| EN2997S6 14-15 x* | 983-6S 14-15 x* |
| EN2997S6 16-10 x* | 983-6S 16-10 x* |
| EN2997S6 16-24 x* | 983-6S 16-24 x* |
| EN2997S6 18-08 x* | 983-6S 18-08 x* |
| EN2997S6 18-14 x* | 983-6S 18-14 x* |
| EN2997S6 18-31 x* | 983-6S 18-31 x* |
| EN2997S6 20-16 x* | 983-6S 20-16 x* |
| EN2997S6 20-25 x* | 983-6S 20-25 x* |
| EN2997S6 20-28 x* | 983-6S 20-28 x* |
| EN2997S6 20-30 x* | 983-6S 20-30 x* |
| EN2997S6 20-32 x* | 983-6S 20-32 x* |
| EN2997S6 20-39 x* | 983-6S 20-39 x* |
| EN2997S6 20-41 x* | 983-6S 20-41 x* |
| EN2997S6 22-12 x* | 983-6S 22-12 x* |
| EN2997S6 22-19 x* | 983-6S 22-19 x* |
| EN2997S6 22-39 x* | 983-6S 22-39 x* |
| EN2997S6 22-55 x* | 983-6S 22-55 x* |
| EN2997S6 24-30 x* | 983-6S 24-30 x* |
| EN2997S6 24-57 x* | 983-6S 24-57 x* |
| EN2997S6 24-61 x* | 983-6S 24-61 x* |
| EN2997S6 28-42 x* | 983-6S 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

Annexe fa PQ 206

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## 6. PLUG EN2997-008 Class SE

| EN2997 | DEUTSCH |
|---|---|
| EN2997SE6 08-03 x* | 983-6SE 08-03 x* |
| EN2997SE6 08-98 x* | 983-6SE 08-98 x* |
| EN2997SE6 10-05 x* | 983-6SE 10-05 x* |
| EN2997SE6 10-06 x* | 983-6SE 10-06 x* |
| EN2997SE6 12-03 x* | 983-6SE 12-03 x* |
| EN2997SE6 12-12 x* | 983-6SE 12-12 x* |
| EN2997SE6 14-04 x* | 983-6SE 14-04 x* |
| EN2997SE6 14-07 x* | 983-6SE 14-07 x* |
| EN2997SE6 14-12 x* | 983-6SE 14-12 x* |
| EN2997SE6 14-15 x* | 983-6SE 14-15 x* |
| EN2997SE6 16-10 x* | 983-6SE 16-10 x* |
| EN2997SE6 16-24 x* | 983-6SE 16-24 x* |
| EN2997SE6 18-08 x* | 983-6SE 18-08 x* |
| EN2997SE6 18-14 x* | 983-6SE 18-14 x* |
| EN2997SE6 18-31 x* | 983-6SE 18-31 x* |
| EN2997SE6 20-16 x* | 983-6SE 20-16 x* |
| EN2997SE6 20-25 x* | 983-6SE 20-25 x* |
| EN2997SE6 20-28 x* | 983-6SE 20-28 x* |
| EN2997SE6 20-30 x* | 983-6SE 20-30 x* |
| EN2997SE6 20-32 x* | 983-6SE 20-32 x* |
| EN2997SE6 20-39 x* | 983-6SE 20-39 x* |
| EN2997SE6 20-41 x* | 983-6SE 20-41 x* |
| EN2997SE6 22-12 x* | 983-6SE 22-12 x* |
| EN2997SE6 22-19 x* | 983-6SE 22-19 x* |
| EN2997SE6 22-39 x* | 983-6SE 22-39 x* |
| EN2997SE6 22-55 x* | 983-6SE 22-55 x* |
| EN2997SE6 24-30 x* | 983-6SE 24-30 x* |
| EN2997SE6 24-57 x* | 983-6SE 24-57 x* |
| EN2997SE6 24-61 x* | 983-6SE 24-61 x* |
| EN2997SE6 28-42 x* | 983-6SE 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASSERT
Certification of Standard Products

Annexe Sir PQ 206

## 7. PLUG EN2997-008 Class K

| EN2997 | DEUTSCH |
|---|---|
| EN2997K6 08-03 x* | 983-6K 08-03 x* |
| EN2997K6 08-98 x* | 983-6K 08-98 x* |
| EN2997K6 10-05 x* | 983-6K 10-05 x* |
| EN2997K6 10-06 x* | 983-6K 10-06 x* |
| EN2997K6 12-03 x* | 983-6K 12-03 x* |
| EN2997K6 12-12 x* | 983-6K 12-12 x* |
| EN2997K6 14-04 x* | 983-6K 14-04 x* |
| EN2997K6 14-07 x* | 983-6K 14-07 x* |
| EN2997K6 14-12 x* | 983-6K 14-12 x* |
| EN2997K6 14-15 x* | 983-6K 14-15 x* |
| EN2997K6 16-10 x* | 983-6K 16-10 x* |
| EN2997K6 16-24 x* | 983-6K 16-24 x* |
| EN2997K6 18-08 x* | 983-6K 18-08 x* |
| EN2997K6 18-14 x* | 983-6K 18-14 x* |
| EN2997K6 18-31 x* | 983-6K 18-31 x* |
| EN2997K6 20-16 x* | 983-6K 20-16 x* |
| EN2997K6 20-25 x* | 983-6K 20-25 x* |
| EN2997K6 20-28 x* | 983-6K 20-28 x* |
| EN2997K6 20-30 x* | 983-6K 20-30 x* |
| EN2997K6 20-32 x* | 983-6K 20-32 x* |
| EN2997K6 20-39 x* | 983-6K 20-39 x* |
| EN2997K6 20-41 x* | 983-6K 20-41 x* |
| EN2997K6 22-12 x* | 983-6K 22-12 x* |
| EN2997K6 22-19 x* | 983-6K 22-19 x* |
| EN2997K6 22-39 x* | 983-6K 22-39 x* |
| EN2997K6 22-55 x* | 983-6K 22-55 x* |
| EN2997K6 24-30 x* | 983-6K 24-30 x* |
| EN2997K6 24-57 x* | 983-6K 24-57 x* |
| EN2997K6 24-61 x* | 983-6K 24-61 x* |
| EN2997K6 28-42 x* | 983-6K 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

Annex for PQ 206

ASCERT
Certification Inspection Standard Products

## 8. PLUG EN2997-008 Class KE

| EN2997 | DEUTSCH |
|---|---|
| EN2997KE6 08-03 x* | 983-6KE 08-03 x* |
| EN2997KE6 08-98 x* | 983-6KE 08-98 x* |
| EN2997KE6 10-05 x* | 983-6KE 10-05 x* |
| EN2997KE6 10-06 x* | 983-6KE 10-06 x* |
| EN2997KE6 12-03 x* | 983-6KE 12-03 x* |
| EN2997KE6 12-12 x* | 983-6KE 12-12 x* |
| EN2997KE6 14-04 x* | 983-6KE 14-04 x* |
| EN2997KE6 14-07 x* | 983-6KE 14-07 x* |
| EN2997KE6 14-12 x* | 983-6KE 14-12 x* |
| EN2997KE6 14-15 x* | 983-6KE 14-15 x* |
| EN2997KE6 16-10 x* | 983-6KE 16-10 x* |
| EN2997KE6 16-24 x* | 983-6KE 16-24 x* |
| EN2997KE6 18-08 x* | 983-6KE 18-08 x* |
| EN2997KE6 18-14 x* | 983-6KE 18-14 x* |
| EN2997KE6 18-31 x* | 983-6KE 18-31 x* |
| EN2997KE6 20-16 x* | 983-6KE 20-16 x* |
| EN2997KE6 20-25 x* | 983-6KE 20-25 x* |
| EN2997KE6 20-28 x* | 983-6KE 20-28 x* |
| EN2997KE6 20-30 x* | 983-6KE 20-30 x* |
| EN2997KE6 20-32 x* | 983-6KE 20-32 x* |
| EN2997KE6 20-39 x* | 983-6KE 20-39 x* |
| EN2997KE6 20-41 x* | 983-6KE 20-41 x* |
| EN2997KE6 22-12 x* | 983-6KE 22-12 x* |
| EN2997KE6 22-19 x* | 983-6KE 22-19 x* |
| EN2997KE6 22-39 x* | 983-6KE 22-39 x* |
| EN2997KE6 22-55 x* | 983-6KE 22-55 x* |
| EN2997KE6 24-30 x* | 983-6KE 24-30 x* |
| EN2997KE6 24-57 x* | 983-6KE 24-57 x* |
| EN2997KE6 24-61 x* | 983-6KE 24-61 x* |
| EN2997KE6 28-42 x* | 983-6KE 28-42 x* |

x = F, B or D, M, A or C
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 9. Protective cover EN 2997-009 Class K, KE, S and SE

Annex of He PQ 2016

## 10. Protective cover EN 2997-010 Class K, KE, S and SE



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 205**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3152 | EN 3196-030, -050, -060, -080, -120 and by analogy<br>EN 3377-030, -050, -060, -080, -120 | Letter DT/MO of 10/10/2010 for all reports<br><br>CAPBLANCQ Michel (TURBOMECA) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
24/05/2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, +33 1 47 65 70 18

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**NEW PQ 204**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Deutsch ECD
250 Eddie Jones Way
Oceanside CA 92054
United States of America

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| Aluminium Electrical Connectors, for models F and W<br>EN 3645-003, EN 3645-008 and<br>EN 3645-009 | EN 3645-001 | QinetiQ report : QinetiQ/TIS/SPA/CR1000022 Date October 2010 &<br>MBR Report N°170 Date 2013-03-18<br>QinetiQ, Mr Trevor Williams |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**May 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

10/05/2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
PQ 204 - Appendix 1 for the List of VAD

List of VAD:

| Value Added Distributor in Europe | ADDRESS |
|---|---|
| **Compagnie Deutsch Distribution** | Aeroparc Saint-Martin<br>12 rue Caulet<br>31300 Toulouse – France |

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Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 204**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Deutsch ECD
250 Eddie Jones Way
Oceanside CA 92054
United States of America

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3645-001 | Aluminium Electrical Connectors, for models F and W<br>EN 3645-003, EN 3645-008 and<br>EN 3645-009 | QinetiQ report :<br>QinetiQ/TIS/SPA/CR1000022.<br>October 2010<br>QinetiQ, Mr Trevor Williams |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**May 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
10/05/2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 203**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

DRAKA FILECA
Route Nationale 1
60730 Sainte Geneviève
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2854-001 | EN2854-<br><br>See Appendix | PQTR :EDDL 068/09 issue A<br>19/01/2010<br>QTP_FE04102 issue 4<br>QTR_FE04102 issue 0<br>Mrs Foray - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

19 April 2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, +33 1 47 65 70 18

APPENDIX
Of
PQ 203

Qualified Parts Numbers

| EN Reference | Manufacturer ref. | Remarks |
|---|---|---|
| EN2854-003A090E | | |
| EN2854-003A140E | XDG06-001 | Qualification test specimen (1) |
| EN2854-003A220E | | |
| EN2854-003A340E | | |
| EN2854-003A420E | | |
| EN2854-003A530E | | |
| EN2854-003A680E | R1715-023 | Qualification test specimen (2) |
| EN2854-003A850E | | |
| EN2854-003A107E | | |

**Test specimens: (1) Gauge 6 instead of gauge 8 / (2) Gauge 00 instead of gauge 0.**

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1150 Brussels
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Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 202** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-<br>See Attached Qualified part numbers List | SNECMA Report – 15/09/2010<br>Christian Mazelle – SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

8 April 2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# APPENDIX

## Qualified part numbers list

| AECMA PN | TSEI PN | AECMA PN | TSEI PN |
|---|---|---|---|
| EN3155-003F1010 | TS3155-003F1010 | EN3155-016M1212 | TS3155-016M1212 |
| EN3155-003F1212 | TS3155-003F1212 | EN3155-016M1616 | TS3155-016M1616 |
| EN3155-003F1214 | TS3155-003F1214 | EN3155-016M2018 | TS3155-016M2018 |
| EN3155-003F1614 | TS3155-003F1614 | EN3155-016M2020 | TS3155-016M2020 |
| EN3155-003F1616 | TS3155-003F1616 | EN3155-016M2222 | TS3155-016M2222 |
| EN3155-003F2018 | TS3155-003F2018 | EN3155-017F1212 | TS3155-017F1212 |
| EN3155-003F2020 | TS3155-003F2020 | EN3155-017F1216 | TS3155-017F1216 |
| EN3155-003F2022 | TS3155-003F2022 | EN3155-017F1616 | TS3155-017F1616 |
| EN3155-003F2222 | TS3155-003F2222 | EN3155-017F1620 | TS3155-017F1620 |
| EN3155-008M1010 | TS3155-008M1010 | EN3155-018M1212 | TS3155-018M1212 |
| EN3155-008M1212 | TS3155-008M1212 | EN3155-018M1614 | TS3155-018M1614 |
| EN3155-008M1214 | TS3155-008M1214 | EN3155-018M1616 | TS3155-018M1616 |
| EN3155-008M1614 | TS3155-008M1614 | EN3155-018M1618 | TS3155-018M1618 |
| EN3155-008M1616 | TS3155-008M1616 | EN3155-018M2018 | TS3155-018M2018 |
| EN3155-008M2018 | TS3155-008M2018 | EN3155-018M2020 | TS3155-018M2020 |
| EN3155-008M2020 | TS3155-008M2020 | EN3155-018M2022 | TS3155-018M2022 |
| EN3155-008M2022 | TS3155-008M2022 | EN3155-019F1212 | TS3155-019F1212 |
| EN3155-008M2222 | TS3155-008M2222 | EN3155-019F1614 | TS3155-019F1614 |
| EN3155-009F1010 | TS3155-009F1010 | EN3155-019F1616 | TS3155-019F1616 |
| EN3155-009F1212 | TS3155-009F1212 | EN3155-019F1618 | TS3155-019F1618 |
| EN3155-009F1214 | TS3155-009F1214 | EN3155-019F2018 | TS3155-019F2018 |
| EN3155-009F1614 | TS3155-009F1614 | EN3155-019F2020 | TS3155-019F2020 |
| EN3155-009F1616 | TS3155-009F1616 | EN3155-019F2022 | TS3155-019F2022 |
| EN3155-009F2018 | TS3155-009F2018 | EN3155-026M1212 | TS3155-026M1212 |
| EN3155-009F2020 | TS3155-009F2020 | EN3155-026M1616 | TS3155-026M1616 |
| EN3155-009F2222 | TS3155-009F2222 | EN3155-026M2020 | TS3155-026M2020 |
| EN3155-014M2018 | TS3155-014M2018 | EN3155-026P2222 | TS3155-026P2222 |
| EN3155-014M2020 | TS3155-014M2020 | EN3155-026Y2222 | TS3155-026Y2222 |
| EN3155-014M2022 | TS3155-014M2022 | EN3155-027F1212 | TS3155-027F1212 |
| EN3155-015F2018 | TS3155-015F2018 | EN3155-027F1616 | TS3155-027F1616 |
| EN3155-015F2020 | TS3155-015F2020 | EN3155-027F2020 | TS3155-027F2020 |
| EN3155-015F2022 | TS3155-015F2022 | EN3155-027F2222 | TS3155-027F2222 |

PQ202

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 201**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-009F2022 | SNECMA Report – 10/06/2010<br>Christian Mazelle – SNECMA<br>Patrick Terrier - BNAE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 8 April 2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**NEW PQ 200**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Deutsch ECD
250 Eddie Jones Way
Oceanside CA 92054
United States of America

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| Composite Electrical Connectors, for models J and M<br>EN 3645-003, EN 3645-008 and<br>EN 3645-009 | EN 3645-001<br>And See Appendix 1 for Value Added Distributor for the assembly and Distribution | QinetiQ report : QinetiQ/CO/EES/CR 1001890 July 2010 & MBR Report N°170 Date 2013-03-18<br>QinetiQ, Mr Trevor Williams |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
05/04/2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
PQ 200 - Appendix 1 for the List of VAD

List of VAD:

| Value Added Distributor in Europe | ADDRESS |
|---|---|
| **Compagnie Deutsch Distribution** | Aeroparc Saint-Martin<br>12 rue Caulet<br>31300 Toulouse – France |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 200**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Deutsch ECD
250 Eddie Jones Way
Oceanside CA 92054
United States of America

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| Composite Electrical Connectors, for models J and M<br>EN 3645-003, EN 3645-008 and<br>EN 3645-009 | EN 3645-001 | QinetiQ report :<br>QinetiQ/CO/EES/CR1001890.<br>July 2010<br>QinetiQ, Mr Trevor Williams |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 05/04/2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 199**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN3327-060 series | ESD 9499 - December / 2010<br>M. STOCK - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

7 March 2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 198**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 9152 | EN 4499-050 & -060 | Report: N°275 for_LISI_ACP005<br>Form2– 2014/03/24<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24/10/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 198**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 9152 | EN 4499-050005A<br>EN 4499-060005A | Reports EF/GP/DJ n° 22387 and EF/GP/DJ n° 22324<br>TURBOMECA, Mr Michel CAPBLANCQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**FEBRUARY 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 10/02/2011
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 197**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3005 | EN 3637-060<br>(Automatic Process) | ASD-CERT Mandated Body report for ASD-STAN EN3637-060 qualification_Light2<br>SNECMA, Mr Philippe Henry |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

23/12/2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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1150 Brussels
BELGIUM

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Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 196**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : NEXANS – FILOTEX
146, rue E. Delacroix BP1
91211 DRAVEIL - FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 4604-001 | EN 4604-008 WD | PQTR D10001401-v1 NEXANS WD and QTP WD zero PFOA 09-0025v1 Nexans<br>AIRBUS, Mr Régis Ruffel |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 23/12/2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 195**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : PAOLO ASTORI SPA
GATTICA - plant via Mirabella 9
Maggiate Superiore-Gattica 28013
ITALY

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3752 | EN3720-050<br>EN3720-060<br>EN3720-100 | MBR Report of 18/11/2010<br>M. Philippe HENRY -<br>SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 09/12/2010

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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Ave de Tervuren, 270
1150 Brussels
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Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 194**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : AXON'CABLE France
Route de Chalons en Champagne
Boîte Postale n°1
51210 Montmirail (FRANCE)

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 4604-001 | EN 4604-009KW | Eurocopter Report :PQTR EDDLE 072/09 issue a (7/08/2009)<br>Françoise Foray - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 6 December 2010

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
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Ave de Tervuren, 270
1150 Brussels
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Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 193**<br>**Partially including renewals from PQ 108** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | DRAKA FILECA<br>Route Nationale 1<br>60730 Sainte Geneviève<br>FRANCE |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2235 | EN2714-<br>See Appendix | EDDL 069/09 Issue a<br>03/08/2009<br>Mrs Foray - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

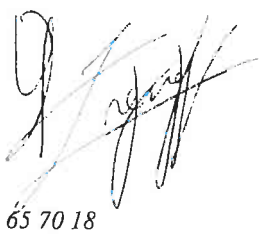
**DECEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 6 December 2010

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



**APPENDIX**
**Of**
**PQ 193**

## Qualified Parts Numbers

| EN References | Manufacturer ref | Remarks |
|---|---|---|
| EN2714-013A001F | XMLA26-001 | |
| EN2714-013A002F | XMLA24-001 | |
| EN2714-013A004F | XMLA22-001 | |
| EN2714-013A006F | XMLA20-001 | |
| EN2714-013A010F | XMLA18-001 | |
| EN2714-013A012F | XMLA16-001 | |
| EN2714-013A020F | XMLA14-001 | |
| EN2714-013A030F | XMLA12-001 | |
| EN2714-013A051F | XMLA10-001 | |
| EN2714-013B001F | XMLB26-001 | |
| EN2714-013B002F | XMLB24-001 | |
| EN2714-013B004F | XMLB22-001 | |
| EN2714-013B006F | XMLB20-001 | |
| EN2714-013B010F | XMLB18-001 | |
| EN2714-013B012F | XMLB16-001 | |
| EN2714-013B020F | XMLB14-001 | |
| EN2714-013B030F | XMLB12-001 | |
| EN2714-013B051F | XMLB10-001 | |
| EN2714-013C001F | XMLC26-001 | |
| EN2714-013C002F | XMLC24-001 | Qualification tests specimen |
| EN2714-013C004F | XMLC22-001 | |
| EN2714-013C006F | XMLC20-001 | |
| EN2714-013C010F | XMLC18-001 | |
| EN2714-013C012F | XMLC16-001 | |
| EN2714-013C020F | XMLC14-001 | |
| EN2714-013C030F | XMLC12-001 | |
| EN2714-013C051F | XMLC10-001 | |
| EN2714-013D001F | XMLD26-001 | |
| EN2714-013D002F | XMLD24-001 | |
| EN2714-013D004F | XMLD22-001 | |
| EN2714-013D006F | XMLD20-001 | |
| EN2714-013D010F | XMLD18-001 | |
| EN2714-013D012F | XMLD16-001 | |
| EN2714-013D020F | XMLD14-001 | |
| | | |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 192**<br>**Partially including renewals from PQ 108** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

DRAKA FILECA
Route Nationale 1
60730 Sainte Geneviève
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2084 and EN 2235 | EN2267-<br>See Appendix | EDDL 069/09 Issue a<br>03/08/2009<br>Mrs Foray - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

6 December 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

**APPENDIX**
**Of**
**PQ 192**

6 December 2010

This certificate has been granted with the agreement of the Executive Board of ASD-CERT that the DTC of Electrical Domain undertakes to change the requirement test 410 of EN 2267-009 and EN 2267-010 with an ad-hoc group of D2S2 as follow:

| | | |
|---|---|---|
| 410 | Thermal endurance | Applicable :<br>10 000 h (temperature 260°C) curve extrapolation<br>100 000 h (temperature 200°C) curve reading |

Extract from the Minutes of D2S2 Meeting:

| Agenda Item | Document Number |
|---|---|

**10 EN 2267 and EN 2714 230Vac wires and cables**

**-EN 2267-002 General**

Examination of received comments from NDB voting done during meeting in January, answers direct integrated in form 9. R. RUFFEL to update the standard and to send to ASD-STAN for publication.

**ACTION: R. Ruffel**

**-EN 2267-010**

No new project P2 started until today. S. ALLWOOD send P2D2 and asking for a lot of changes to

- to give advice regarding 230V/400V network and include test 603 (A400M)
- include test to demonstrate laser markability
- include multicore cables
- modify test 410 for better understanding
- add codes DR R and DR S related to the color

All points to be discussed during ad-hoc group meeting.

**ACTION: ad-hoc group**

**-EN 2267-011/012 + EN 2714-015**
A lot of comments received from all delegations. Comments regarding marking and missing minimum insulation thickness are agreed and will be discussed between R. RUFFEL and potential supplier.

Form 9 with comments needs to be examined by ad-hoc group and all P1D1needs to be updated accordingly, to be submitted to the group before the next meeting

**ACTION: R. Ruffel/ad-hoc group**



**APPENDIX**
**Of**
**PQ 192**

**Qualified Parts Numbers**

| EN References | Manufacturer ref. | Remarks |
|---|---|---|
| EN2267-010A001S | XDR26-001 | Qualification tests specimen / Rohs conductor validation only |
| EN2267-010A002S | XDR24-001 | Qualification tests specimen + Rohs conductor validation |
| EN2267-010A004S | XDR22-001 | |
| EN2267-010A006S | XDR20-001 | Qualification tests specimen |
| EN2267-010A010S | XDR18-001 | |
| EN2267-010A012S | XDR16-001 | |
| EN2267-010A020S | XDR14-001 | Qualification tests specimen |
| EN2267-010A030S | XDR12-001 | |



**APPENDIX**
**Of**
**PQ 192**

## Qualified Parts Numbers

| EN References | Manufacturer ref. | Remarks |
|---|---|---|
| EN2267-010A051S | XDR10-001 | |
| EN2267-010A090S | XDR8-001 | Qualification tests specimen |
| EN2267-010A140S | XDR6-001 | |
| EN2267-010A220S | XDR4-001 | |
| EN2267-010A340S | XDR2-001 | |
| EN2267-009B001P | XDRB26-001 | |
| EN2267-09B002P | XDRB24-001 | |
| EN2267-009B004P | XDRB22-001 | |
| EN2267-009B006P | XDRB20-001 | |
| EN2267-009B010P | XDRB18-001 | |
| EN2267-009B012P | XDRB16-001 | |
| EN2267-009B020P | XDRB14-001 | |
| EN2267-009B030P | XDRB12-001 | |
| EN2267-009B051P | XDRB10-001 | |
| EN2267-009B090P | XDRB8-001 | |
| EN2267-009B140P | XDRB6-001 | |
| EN2267-010B220P | XDRB4-001 | |
| EN2267-010B340P | XDRB2-001 | |
| EN2267-009C001P | XDRC26-001 | |
| EN2267-009C002P | XDRC24-001 | |
| EN2267-009C004P | XDRC22-001 | |
| EN2267-009C006P | XDRC20-001 | |
| EN2267-009C010P | XDRC18-001 | |
| EN2267-009C012P | XDRC16-001 | |
| EN2267-009C020P | XDRC14-001 | |
| EN2267-009C030P | XDRC12-001 | |
| EN2267-009C051P | XDRC10-001 | |
| EN2267-009C090P | XDRC8-001 | |
| EN2267-009C140P | XDRC6-001 | |
| EN2267-010C220P | XDRC4-001 | |
| EN2267-010C340P | XDRC2-001 | |
| EN2267-009D001P | XDRD26-001 | |
| EN2267-009D002P | XDRD24-001 | |
| EN2267-009D004P | XDRD22-001 | |
| EN2267-009D006P | XDRD20-001 | |
| EN2267-009D010P | XDRD18-001 | |
| EN2267-009D012P | XDRD16-001 | |
| EN2267-009D020P | XDRD14-001 | |
| EN2267-009D030P | XDRD12-001 | |
| EN2267-009D051P | XDRD10-001 | |
| EN2267-00D090P | XDRD8-001 | |
| EN2267-009D140P | XDRD6-001 | |



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 191**
**Partially including renewals from PQ's 041 and 121**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2927-050 series | ESD 9448 - 04/05/2010<br>M. STOCK - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

6 December 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 190**<br>**Partially including renewals from PQ's 041 and 121** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2927-070 series | ESD 9449 - 04/05/2010<br>M. STOCK - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

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Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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1150 Brussels
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 189**
**Partially including renewals from PQ's 042 and 121**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2582 | EN2929-050 series<br>EN2929-060 series | ESD 9422 - 01/07/2010<br>ESD 9456 - 20/07/2010<br>M. STOCK - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

6 December 2010

PLACE :
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ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

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1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 188**<br>**"SEE CONDITION IN ANNEX ATTACHED"** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

CARLISLE Interconnect Technologies
100, Tensolite drive – St Augustine
FL 32092 – Florida
United States

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2235 | EN 2714-013<br>See Appendix | Eurocopter Report :PQTR DR Carlisle IT_70-09 issue b<br>Françoise Foray - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

1 October 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

# ANNEX of PQ 188

1 October 2010

This certificate has been granted with the agreement of the Executive Board of ASD-CERT that the DTC of Electrical Domain undertakes to change the requirement test 410 of EN 2267-010 with an ad-hoc group of D2S2 as follow:

| | | |
|---|---|---|
| 410 | Thermal endurance | Applicable :<br>10 000 h (temperature 260°C) curve extrapolation<br>100 000 h (temperature 200°C) curve reading |

Extract from the Minutes of D2S2 Meeting:

| Agenda Item | Document Number |
|---|---|

**10 EN 2267 and EN 2714 230Vac wires and cables**

**-EN 2267-002 General**

Examination of received comments from NDB voting done during meeting in January, answers direct integrated in form 9. R. RUFFEL to update the standard and to send to ASD-STAN for publication.

**ACTION: R. Ruffel**

**-EN 2267-010**

No new project P2 started until today. S. ALLWOOD send P2D2 and asking for a lot of changes to

- to give advice regarding 230V/400V network and include test 603 (A400M)
- include test to demonstrate laser markability
- include multicore cables
- modify test 410 for better understanding
- add codes DR R and DR S related to the color

All points to be discussed during ad-hoc group meeting.

**ACTION: ad-hoc group**

**-EN 2267-011/012 + EN 2714-015**

A lot of comments received from all delegations. Comments regarding marking and missing minimum insulation thickness are agreed and will be discussed between R. RUFFEL and potential supplier.

Form 9 with comments needs to be examined by ad-hoc group and all P1D1needs to be updated accordingly, to be submitted to the group before the next meeting

**ACTION: R. Ruffel/ad-hoc group**

Signed on behalf of ASD-CERT:

# ANNEX of PQ 188
# Carlisle Interconnect Technologies, Qualified Products List

List of Qualified references:

| EN References | Manufacturer ref. | Remarks |
|---|---|---|
| EN2714-013A001F | MLA26 | |
| EN2714-013A002F | MLA24 | |
| EN2714-013A004F | MLA22 | |
| EN2714-013A006F | MLA20 | Qualification test specimen |
| EN2714-013A010F | MLA18 | |
| EN2714-013A012F | MLA16 | |
| EN2714-013A020F | MLA14 | |
| EN2714-013A030F | MLA12 | |
| EN2714-013A051F | MLA10 | |
| EN2714-013B001F | MLB26 | |
| EN2714-013B002F | MLB24 | |
| EN2714-013B004F | MLB22 | |
| EN2714-013B006F | MLB20 | |
| EN2714-013B010F | MLB18 | |
| EN2714-013B012F | MLB16 | |
| EN2714-013B020F | MLB14 | Qualification test specimen |
| EN2714-013B030F | MLB12 | |
| EN2714-013B051F | MLB10 | |
| EN2714-013C001F | MLC26 | |
| EN2714-013C002F | MLC24 | Qualification test specimen |
| EN2714-013C004F | MLC22 | |
| EN2714-013C006F | MLC20 | |
| EN2714-013C010F | MLC18 | |
| EN2714-013C012F | MLC16 | |
| EN2714-013C020F | MLC14 | |
| EN2714-013C030F | MLC12 | |
| EN2714-013C051F | MLC10 | |
| EN2714-013D001F | MLD26 | |
| EN2714-013D002F | MLD24 | |
| EN2714-013D004F | MLD22 | |
| EN2714-013D006F | MLD20 | |
| EN2714-013D010F | MLD18 | |
| EN2714-013D012F | MLD16 | |
| EN2714-013D020F | MLD14 | |

ASD-CERT
Qualification Aerospace Standard Products

Signed on behalf of ASD-CERT:

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 187**<br>**"SEE CONDITION IN ANNEX ATTACHED"** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

CARLISLE Interconnect Technologies
100, Tensolite drive – St Augustine
FL 32092 – Florida
United States

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2084 | EN 2267-010<br>See Appendix | Eurocopter Report :PQTR DR Carlisle IT_70-09 issue b<br>Françoise Foray - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

1 October 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

# ANNEX of PQ 187

1 October 2010

This certificate has been granted with the agreement of the Executive Board of ASD-CERT that the DTC of Electrical Domain undertakes to change the requirement test 410 of EN 2267-010 with an ad-hoc group of D2S2 as follow:

| | | |
|---|---|---|
| 410 | Thermal endurance | Applicable :<br>10 000 h (temperature 260°C) curve extrapolation<br>100 000 h (temperature 200°C) curve reading |

Extract from the Minutes of D2S2 Meeting:

| Agenda Item | Document Number |
|---|---|

**10 EN 2267 and EN 2714 230Vac wires and cables**

**-EN 2267-002 General**

Examination of received comments from NDB voting done during meeting in January, answers direct integrated in form 9. R. RUFFEL to update the standard and to send to ASD-STAN for publication.

**ACTION: R. Ruffel**

**-EN 2267-010**

No new project P2 started until today. S. ALLWOOD send P2D2 and asking for a lot of changes to

- to give advice regarding 230V/400V network and include test 603 (A400M)
- include test to demonstrate laser markability
- include multicore cables
- modify test 410 for better understanding
- add codes DR R and DR S related to the color

All points to be discussed during ad-hoc group meeting.

**ACTION: ad-hoc group**

**-EN 2267-011/012 + EN 2714-015**

A lot of comments received from all delegations. Comments regarding marking and missing minimum insulation thickness are agreed and will be discussed between R. RUFFEL and potential supplier.

Form 9 with comments needs to be examined by ad-hoc group and all P1D1needs to be updated accordingly, to be submitted to the group before the next meeting

**ACTION: R. Ruffel/ad-hoc group**

Signed on behalf of ASD-CERT:

# ANNEX of PQ 187
# Carlisle Interconnect Technologies, Qualified Products List

List of Qualified references:

| EN References | Manufacturer ref. | Remarks |
|---|---|---|
| EN2267-010A001S | DR26 | Qualification test specimen<br>+ validation of Rohs conductor and Yellow UV tape) |
| EN2267-010A002S | DR24 | Qualification test specimen |
| EN2267-010A004S | DR22 | |
| EN2267-010A006S | DR20 | Qualification test specimen<br>+ validation of Rohs Light green UV tape |
| EN2267-010A010S | DR18 | |
| EN2267-010A012S | DR16 | |
| EN2267-010A020S | DR14 | Qualification test specimen |
| EN2267-010A030S | DR12 | |
| EN2267-010A051S | DR10 | |
| EN2267-010A090S | DR8 | Qualification test specimen |
| EN2267-010A140S | DR6 | |
| EN2267-010A220S | DR4 | |
| EN2267-010A340S | DR2 | |

Signed on behalf of ASD-CERT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 186**<br>**"SEE CONDITION IN ANNEX ATTACHED"** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

CARLISLE Interconnect Technologies
100, Tensolite drive – St Augustine
FL 32092 – Florida
United States

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 2084 and EN 2235 | EN 2267-009<br>See Appendix | Eurocopter Report :PQTR DR Carlisle IT_70-09 issue b<br>Françoise Foray - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

1 October 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*

# ANNEX of PQ 186

1 Ocotber 2010

This certificate has been granted with the agreement of the Executive Board of ASD-CERT that the DTC of Electrical Domain undertakes to change the requirement test 410 of EN 2267-010 with an ad-hoc group of D2S2 as follow:

| | | |
|---|---|---|
| 410 | Thermal endurance | Applicable :<br>10 000 h (temperature 260°C) curve extrapolation<br>100 000 h (temperature 200°C) curve reading |

Extract from the Minutes of D2S2 Meeting:

| Agenda Item | Document Number |
|---|---|

**10 EN 2267 and EN 2714 230Vac wires and cables**

**-EN 2267-002 General**

Examination of received comments from NDB voting done during meeting in January, answers direct integrated in form 9. R. RUFFEL to update the standard and to send to ASD-STAN for publication.

**ACTION: R. Ruffel**

**-EN 2267-010**

No new project P2 started until today. S. ALLWOOD send P2D2 and asking for a lot of changes to

- to give advice regarding 230V/400V network and include test 603 (A400M)
- include test to demonstrate laser markability
- include multicore cables
- modify test 410 for better understanding
- add codes DR R and DR S related to the color

All points to be discussed during ad-hoc group meeting.

**ACTION: ad-hoc group**

**-EN 2267-011/012 + EN 2714-015**

A lot of comments received from all delegations. Comments regarding marking and missing minimum insulation thickness are agreed and will be discussed between R. RUFFEL and potential supplier.

Form 9 with comments needs to be examined by ad-hoc group and all P1D1needs to be updated accordingly, to be submitted to the group before the next meeting

**ACTION: R. Ruffel/ad-hoc group**

Signed on behalf of ASD-CERT:

# ANNEX of PQ 186
# Carlisle Interconnect Technologies, Qualified Products List

List of Qualified references:

| EN References | Manufacturer ref. | Remarks |
|---|---|---|
| EN2267-009B001P | DRB26 | |
| EN2267-009B002P | DRB24 | DRA24 red for validation of Rohs red tape |
| EN2267-009B004P | DRB22 | |
| EN2267-009B006P | DRB20 | |
| EN2267-009B010P | DRB18 | |
| EN2267-009B012P | DRB16 | |
| EN2267-009B020P | DRB14 | |
| EN2267-009B030P | DRB12 | |
| EN2267-009B051P | DRB10 | |
| EN2267-009B090P | DRB8 | |
| EN2267-009B140P | DRB6 | |
| EN2267-009B220P | DRB4 | |
| EN2267-009B340P | DRB2 | |
| EN2267-009C001P | DRC26 | |
| EN2267-009C002P | DRC24 | |
| EN2267-009C004P | DRC22 | |
| EN2267-009C006P | DRC20 | |
| EN2267-009C010P | DRC18 | |
| EN2267-009C012P | DRC16 | |
| EN2267-009C020P | DRC14 | |
| EN2267-009C030P | DRC12 | |
| EN2267-009C051P | DRC10 | |
| EN2267-009C090P | DRC8 | |
| EN2267-009C140P | DRC6 | |
| EN2267-009C220P | DRC4 | |
| EN2267009C340P | DRC2 | |
| EN2267-009D001P | DRD26 | |
| EN2267-009D002P | DRD24 | |
| EN2267-009D004P | DRD22 | |
| EN2267-009D006P | DRD20 | |
| EN2267-009D010P | DRD18 | |
| EN2267-009D012P | DRD16 | |
| EN2267-009D020P | DRD14 | |
| EN2267-009D030P | DRD12 | |
| EN2267-009D051P | DRD10 | |
| EN2267-009D090P | DRD8 | |
| EN2267-009D140P | DRD6 | |

ASD-CERT
Aerospace Standard Products

Signed on behalf of ASD-CERT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 185** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3752 | EN3723-050 | 28/07/2010 - M. Philippe HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**SEPTEMBRE 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

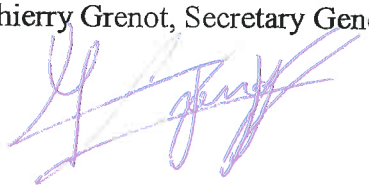
13/09/2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 184**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
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die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3752 | EN3723-040 | 28/07/2010 - M. Philippe HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

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DATE :
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DATUM : 13/09/2010

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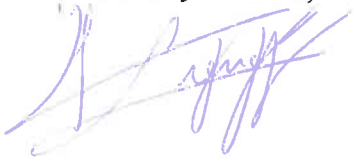
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 183 (Replace partially PQ 040 and PQ 121)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN2926-050008 to 070 | ESD 9450 - 04/05/2010<br>M. STOCK<br>ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**AUGUST 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

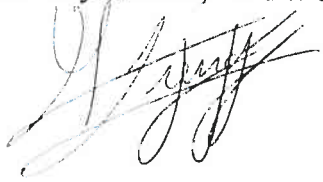
17 August 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 182**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS
301 Highland avenue
Jenkington
PA 19046 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4047 | EN4011-070 | SNECMA Report - 06/03/2009<br>P. HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

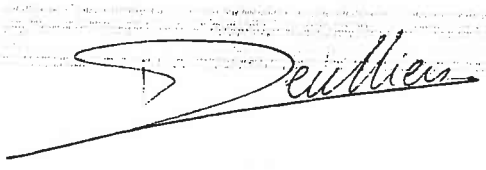
**APRIL 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 28 April 2009
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 181**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Bristol Industries
630 East Lambert Road
Brea, CA 92821
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-050 | Report: N°206 Bristol_ACP005 Form2– 2013/04/25<br>Keith ALLEN, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 27/05/2013
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 181** **(partially renewal PQ 118)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : BRISTOL INDUSTRIES
630 E. Lambert Road - BREA
CA- 92821 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-050 | ESD 9373 - July 2008<br>R. SCOTT - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 24 April 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 180 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : BRISTOL INDUSTRIES
630 E. Lambert Road - BREA
CA- 92821 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3004 | EN 2907-050<br>EN 2907-060<br>EN 2909-050<br>EN 2911-050 | Report: N°205 Bristol_ACP005 Form2– 2013/05/01<br>Keith ALLEN, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 02/07/2013
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 180 (partially renewal PQ 118)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : BRISTOL INDUSTRIES
630 E. Lambert Road - BREA
CA- 92821 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2907-050<br>EN2907-060<br>EN 2909-050<br>EN 2911-050 | ESD 9371 - July 2008<br>ESD 9374 - July 2008<br>ESD 9372 - July 2008<br>ESD 9370 - July 2008<br>R. SCOTT - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 24 April 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 179**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SAS MACH AERO BRETIGNY
2 rue du Roussillon
91220 BRETIGNY SUR ORGE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2755 | EN2584, EN2585,<br>EN4613, EN4614 | Report N°0902/1-A<br>P. HENRY – SNECMA<br>27/01/2010 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 20 April 2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 178**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SAS MACH AERO BRETIGNY
2 rue du Roussillon
91220 BRETIGNY SUR ORGE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2064 | EN2023 | Report N°0902/2-A<br>P. HENRY – SNECMA<br>27/01/2010 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20 April 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 177**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : TRELLEBORG SEALING SOLUTIONS UK Ltd
International Drive - Tewkesbury Business Park
Tewkesbury - Gloucestershire - GL20 8UQ
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2798 | Rubber Compound<br>Material 3057 | ROLLS ROYCE - ESD 9415 -<br>10/11/2009 - Keith ALLEN |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 2 March 2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, +33 1 47 65 70 18
SIGNATURE :
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 176 - RENEWAL** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

TRELLEBORG SEALING SOLUTIONS UK Ltd
International Drive - Tewkesbury Business Park
Tewkesbury - Gloucestershire - GL20 8UQ
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3050 | EN3049 | Reports: N° 232 for_Trelleborg_ACP005 Form2– Issue 1_2015-06<br>Philip Edwards – Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24/09/2015

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 05 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 176**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : TRELLEBORG SEALING SOLUTIONS UK Ltd
International Drive - Tewkesbury Business Park
Tewkesbury - Gloucestershire - GL20 8UQ
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3050 | EN3049 | ROLLS ROYCE - ESD 9416 - 10/11/2009 - Keith ALLEN |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 2 March 2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, +33 1 47 65 70 18
SIGNATURE :
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 175**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN4352-080020 | EF/GP/DJ 21 875 - 12/02/2009<br>Michel Capblancq - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**FEBRUARY 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 8 February 2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, +33 1 47 65 70 18
SIGNATURE :
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 174**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2910-050 | Report: N°193-1 for_LISI_ACP005 Form2– 2013/02/27<br>Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 27/05/2013

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 174**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2910-050<br>EN3014-050<br>EN3014-070 | EF/GP/DJ 22 060 - 20/04/2009<br>EF/GP/DJ 22 321 - 14/09/2009<br>EF/GP/DJ 22 059 - 07/05/2009<br>Michel Capblancq - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**FEBRUARY 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

8 February 2010

**PLACE :**
**A :**
**ORT :**

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 173**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3152 | EN3196-100<br>EN3377-100 | 11/12/2009 - M. CAPBLANCQ - TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**FEBRUARY 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 2 February 2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, +33 1 47 65 70 18
SIGNATURE :
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 172 (Replace partially PQ 041 and PQ 119)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN3327-050 series | ESD 9411 - 26/06/2009<br>M. STOCK / K. ALLEN - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**AUGUST 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

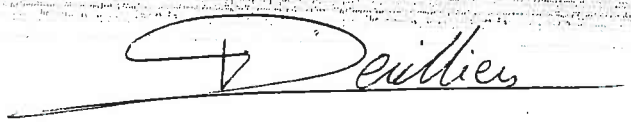
24 August 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



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Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 171 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155<br>See Appendix for the Qualified part number list | MBR Report N°187 ACP005-Form 2<br>Date 2013-03-21<br>Christian Mazelle, Snecma |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JANUARY 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/12/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
PQ 171 - Appendix 1 for the Qualified part number list

| ASD Designation | ASD Cert | TSEI Part Numbers | |
|---|---|---|---|
| | | 0,8 µm Au Full Plate | 0,8 µm Au Selective Plate |
| Table A.3 Part Number from PQ 171 | | | |
| EN3155-003F1214 | PQ 171 | 218-1214-108 | 218-1214-108-L |
| EN3155-003F2022 | PQ 171 | 218-2022-106-1 | 218-2022-106-1-L |
| EN3155-008M1010 | PQ 171 | 217-1010-231 | 217-1010-231-L |
| EN3155-008M1214 | PQ 171 | 217-1214-108 | 217-1214-108-L |
| EN3155-008M2022 | PQ 171 | 217-2022-106 | 217-2022-106-L |
| EN3155-009F1010 | PQ 171 | 218-1010-231 | 218-1010-231-L |
| EN3155-009F1214 | PQ 171 | 218-1214-141 | 218-1214-141-L |
| EN3155-014M2020 | PQ 171 | 217-2020-055 | 217-2020-055-L |
| EN3155-014M2022 | PQ 171 | 217-2022-A4055 | 217-2022-A4055-L |
| EN3155-015F2022 | PQ 171 | 218-2022-A4055 | 218-2022-A4055-L |
| EN3155-016M1212 | PQ 171 | 219-1212-816 | 219-1212-816-L |
| EN3155-016M1616 | PQ 171 | 219-1616-816 | 219-1616-816-L |
| EN3155-016M2020 | PQ 171 | 219-2020-816 | 219-2020-816-L |
| EN3155-017F1212 | PQ 171 | 218-1212-634 | 218-1212-634-L |
| EN3155-026M1212 | PQ 171 | 217-1212-306 | 217-1212-306-L |
| EN3155-026M1616 | PQ 171 | 217-1616-306 | 217-1616-306-L |
| EN3155-026M2020 | PQ 171 | 217-2020-306 | 217-2020-306-L |
| EN3155-026Y2222 | PQ 171 | 217-2222-A0306 | 217-2222-A0306-L |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

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Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 171**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-<br>See appendix | Eurocopter Report - 03/03/2009<br>Louis Leblanc - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 21 July 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# APPENDIX

## Qualified part numbers

| EN P/N | TRI STAR P/N | TRI STAR P/N Fully plated | TRI STAR P/N Selective plated | TRI STAR P/N Full plate low Au | TRI STAR P/N Selective low Au |
|---|---|---|---|---|---|
| EN3155-003F1214 | TS3155-003F1214 | 318-1214-108 | | 218-1214-108 | 218-1214-108-L |
| EN3155-003F2022 | TS3155-003F2022 | 318-2022-106-1 | 318-2022-106-1-L | 218-2022-106-1 | 218-2022-106-1-L |
| EN3155-004M1212 | TS3155-004M1212 | 31P-1212-090 | 31P-1212-090-L | 21P-1212-090 | 21P-1212-090-L |
| EN3155-004M1614 | TS3155-004M1614 | 31P-1614-089 | 31P-1614-089-L | 21P-1614-089 | 21P-1614-089-L |
| EN3155-004M1616 | TS3155-004M1616 | 31P-1616-089 | 31P-1616-089-L | 21P-1616-089 | 21P-1616-089-L |
| EN3155-004M1618 | TS3155-004M1618 | 31P-1618-089 | 31P-1618-089-L | 21P-1618-089 | 21P-1618-089-L |
| EN3155-004M2020 | TS3155-004M2020 | 31P-2020-088 | 31P-2020-088-L | 21P-2020-088 | 21P-2020-088-L |
| EN3155-005F1212 | TS3155-005F1212 | 318-1212-090-RR | 318-1212-090-RR-L | 218-1212-090-RR | 218-1212-090-RR-L |
| EN3155-005F1614 | TS3155-005F1614 | 318-1614-089-RR | 318-1614-089-RR-L | 218-1614-089-RR | 218-1614-089-RR-L |
| EN3155-005F2020 | TS3155-005F2020 | 318-2020-088-RR | 318-2020-088-RR-L | 218-2020-088-RR | 218-2020-088-RR-L |
| EN3155-008M1010 | TS3155-008M1010 | 315-1010-231 | 315-1010-231-L | 217-1010-231 | 217-1010-231-L |
| EN3155-008M1214 | TS3155-008M1214 | 317-1214-108 | [redacted] | 217-1214-108 | 217-1214-108-L |
| EN3155-008M2022 | TS3155-008M2022 | 317-2022-106 | 317-2022-106-L | 217-2022-106 | 217-2022-106-L |
| EN3155-009F1010 | TS3155-009F1010 | 316-1010-231 | [redacted] | 218-1010-231 | 218-1010-231-L |
| EN3155-009F1214 | TS3155-009F1214 | 318-1214-141 | [redacted] | 218-1214-141 | 218-1214-141-L |
| EN3155-014M2020 | TS3155-014M2020 | 317-2020-055 | [redacted] | 217-2020-055 | 217-2020-055-L |
| EN3155-014M2022 | TS3155-014M2022 | 317-2022-A4055 | 317-2022-A4055-L | 217-2022-A4055 | 217-2022-A4055-L |
| EN3155-015F2022 | TS3155-015F2022 | 318-2022-A4055 | 318-2022-A4055-L | 218-2022-A4055 | 218-2022-A4055-L |
| EN3155-016M1212 | TS3155-016M1212 | 319-1212-816 | [redacted] | 219-1212-816 | [redacted] |
| EN3155-016M1616 | TS3155-016M1616 | 319-1616-816 | [redacted] | 219-1616-816 | [redacted] |
| EN3155-016M2020 | TS3155-016M2020 | 319-2020-816 | [redacted] | 219-2020-816 | [redacted] |
| EN3155-017F1212 | TS3155-017F1212 | 316-1212-634 | [redacted] | 216-1212-634 | 216-1212-634-L |
| EN3155-026M1212 | TS3155-026M1212 | 315-1212-306 | 315-1212-306-L | 215-1212-306 | 215-1212-306-L |
| EN3155-026M1616 | TS3155-026M1616 | 315-1616-306 | 315-1616-306-L | 215-1616-306 | 215-1616-306-L |
| EN3155-026M2020 | TS3155-026M2020 | 315-2020-306 | 315-2020-306-L | 215-2020-306 | 215-2020-306-L |
| EN3155-026Y2222 | TS3155-026Y2222 | 317-2222-A0306 | 317-2222-A0306-L | 217-2222-A0306 | 217-2222-A0306-L |

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Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 170**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3299 | EN3728- 018<br>EN4396-018 | Test report N°6605 - 30/06/2009<br>M. CAPBLANCQ - Turbomeca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

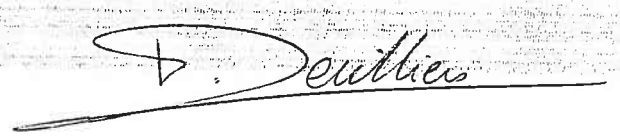
**JULY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 16 July 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



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Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 169** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | SOURIAU<br>RD 323<br>72470 CHAMPAGNE<br>FRANCE |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

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| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008, -009<br>See Appendix for the Qualified part number list and the list of VAD | MBR Report N°364 Date 2015-06-15<br>Marc Belletti - Airbus |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2019**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 07/01/2016

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

List of qualified products

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3645-003) | EN3645-F0AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 0<br>Inserts N<br>EN3645F0*****M/F*<br>EN3645J0*****M/F*<br>EN3645K0*****MF*<br>EN3645M0*****M/F*<br>EN3645W0*****M/F* | 8D0-09F35PN<br><br><br><br>8D0-**F**P/S*<br>8D0-**J**P/S*<br>8D0-**K**P/S*<br>8D0-**M**P/S*<br>8D0-**W**P/S* | **A/09N** 35; 98<br>**B/11N** 01; 02; 05; 35; 12; 98; 99<br>**C/13N** 04; 08; 26; 35; 98<br>**D/15N** 05, 15, 18; 19; 35; 97<br>**E/17N** 02; 06; 08; 20; 22; 26; 35; 75; 99<br>**F/19N** 11; 32; 35<br>**G/21N** 11; 16; 35; 39; 41;75<br>**H/23N** 06; 21; 35; 53; 54; 55<br>**J/25N** 04; 07; 08; 11; 19; 20; 24; 29; 35; 37; 43; 46; 61 |
| Plug<br><br>(EN3645-008) | EN3645-F6AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 6<br>Inserts N<br>EN3645F6*****M/F*<br>EN3645J6*****M/F*<br>EN3645K6*****M/F*<br>EN3645M6*****M/F*<br>EN3645W6*****M/F* | 8D5-09F35PN<br><br><br><br>8D5-**F**P/S*<br>8D5-**J**P/S*<br>8D5-**K**P/S*<br>8D5-**M**P/S*<br>8D5-**W**P/S* | |
| Receptacle, Jam nut mounting<br><br>(EN 3645-009) | EN3645-F7AN35MN<br>Positions N A B C D E<br>Models F K W<br>Type 7<br>Inserts N<br>EN3645F7*****M/F*<br>EN3645K7*****M/F*<br>EN3645W7*****M/F* | 8D7-09F35PN<br><br><br><br>8D7-**F**P/S*<br>8D7-**K**P/S*<br>8D7-**W**P/S* | |

ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

List of plants:

| PLANTS | LOGO | ADDRESS |
|---|---|---|
| **SOURIAU SARTHE** | none | RN 23<br>72470 Champagne<br>France |
| **SOURIAU MAROC** | T | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |

List of VAD:

| Value Added Distributor in USA | LOGO | ADDRESS |
|---|---|---|
| **A.E. Petsche Company Inc.** |  | Sonitronies, S.A. de C.V. DPTO<br>A.E. Petsche<br>Boulevard Luis Donaldo Colosio 1179<br>Nogales, Sonora C.P. 84020<br>Mexico |
| **AEROFLITE** enterprise, inc | (B) | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **AIR ELECTRO INC** | AEI | 9452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| **B.J.G. Electronics** | BJG | 141 Remington Boulevard<br>Ronkonkoma, NY 11779-6911<br>USA |
| **CTI** Connector Technology Inc. | CTI | 135 Industry Court Kalispell,<br>MT 59901<br>USA |
| **TTI** |  | 2601 Sylvania Cross Drive<br>Fort Worth, TX 76137 TX<br>USA |
| **KAPCO** | KA1 | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |

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| Value Added Distributor in EUROPE | LOGO | ADDRESS |
|---|---|---|
| **DOMAR** | DMR | ul.Botaniczna 52/56<br>04-543 Warsawa<br>Poland |
| **F.C. LANE** Electronics Ltd. | FC | Category C distributor of Souriau Connectors<br>Slinfold Lodge ,<br>Horsham, West Sussex RH 13 7RN UK |
| **KAPCO GLOBAL**<br>Formerly AVIALEC International | A | KAPCO HOUSE<br>37 Woolmer Way<br>Bordon Hampshire GU35 9QE - ENGLAND |
| **MPS** ELECTRONIC Vertriebs GmbH | mps | Pfarrer-Huber-Ring 8<br>83620 feldkirchen-Westerham<br>Germany |
| **ROSENBERGER FILCON** GmbH | D | SiemensstraBe 7<br>D-85521 OTTOBRUNN<br>Germany |
| **SERVO** AND ELECTRONICS SALES LTD | SVO | Connector House<br>Harden Road, Lydd<br>Kent, TN29 9LX<br>UK |
| **T&G ELEKTRO** | T&G | Boks 56, 3524 Nes I Adal<br>Norway |
| **TTI, Inc.** | TTI | Ganghoferstrasse 34<br>82216 Maisach-Gernlinden<br>Germany |
| **Raytech ADC** | RT | Hustenovska 2022<br>686 03 Stare Mesto<br>Czech Republic |

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| Value Added Distributor in other countries | LOGO | ADDRESS |
|---|---|---|
| **CHUBU NIHON MARUKO Co., LTD.** | CNM | 23-3 Noguchi<br>Komaki-Shi, Aichi-Ken<br>485-0806 Japan |
| **HICONNEX** | HCX | Mount Royal, Unit B3, James Crescent 657<br>Halfway House, Midrand<br>South Africa |

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Certification of Aerospace Standard Products
Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 169 – RENEWAL – Termination of the Value Added Distributor at AE Petsche Venlo NL** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RD 323
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008, -009<br>See Appendix for the Qualified part number list and the list of VAD | MBR Report N°135 ACP005-Form 2 Date 2012-06-15 & MBR Report N°198 Date 2013-01-28 & MBR Report N°209 Date 2013-03-18 & MBR Report N°247 Date 2014-02-04 & MBR Report N°280 Date 2015-02-23 Trevor Williams, QinetiQ<br>MBR Report N°215 ACP005-Form 2 Date 2013-09-13 & by Christian Mazelle, Snecma |

**This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis**

**January 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

18/01/2013

PLACE :
A :
ORT :

Brussels, Belgium



SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 169 - Appendix 1 for the Qualified part number list

List of qualified products

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3645-003) | EN3645-F0AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 0<br>Inserts N<br>EN3645F0*****M/F*<br>EN3645J0*****M/F*<br>EN3645K0*****MF*<br>EN3645M0*****M/F*<br>EN3645W0*****M/F* | 8D0-09F35PN<br><br><br><br><br>8D0-**F**P/S*<br>8D0-**J**P/S*<br>8D0-**K**P/S*<br>8D0-**M**P/S*<br>8D0-**W**P/S* | **A/09N** 35; 98<br>**B/11N** 01; 02; 05; 35; 12; 98; 99<br>**C/13N** 04; 08; 26; 35; 98<br>**D/15N** 05, 15, 18; 19; 35; 97<br>**E/17N** 02; 06; 08; 20; 22; 26; 35; 75; 99<br>**F/19N** 11; 32; 35<br>**G/21N** 11; 16; 35; 39; 41;75<br>**H/23N** 06; 21; 35; 53; 54; 55<br>**J/25N** 04; 07; 08; 11; 19; 20; 24; 29; 35; 37; 43; 46; 61 |
| Plug<br><br>(EN3645-008) | EN3645-F6AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 6<br>Inserts N<br>EN3645F6*****M/F*<br>EN3645J6*****M/F*<br>EN3645K6*****M/F*<br>EN3645M6*****M/F*<br>EN3645W6*****M/F* | 8D5-09F35PN<br><br><br><br><br>8D5-**F**P/S*<br>8D5-**J**P/S*<br>8D5-**K**P/S*<br>8D5-**M**P/S*<br>8D5-**W**P/S* | |
| Receptacle, Jam nut mounting<br><br>(EN 3645-009) | EN3645-F7AN35MN<br>Positions N A B C D E<br>Models F K W<br>Type 7<br>Inserts N<br>EN3645F7*****M/F*<br>EN3645K7*****M/F*<br>EN3645W7*****M/F* | 8D7-09F35PN<br><br><br><br><br>8D7-**F**P/S*<br>8D7-**K**P/S*<br>8D7-**W**P/S* | |

ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

List of plants:

| PLANTS | LOGO | ADDRESS |
|---|---|---|
| **SOURIAU SARTHE** | none | RN 23<br>72470 Champagne<br>France |
| **SOURIAU MAROC** | T | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |

List of VAD:

| Value Added Distributor in USA | LOGO | ADDRESS |
|---|---|---|
| **A.E. Petsche Company Inc.** | ★ | Sonitronies, S.A. de C.V. DPTO<br>A.E. Petsche<br>Boulevard Luis Donaldo Colosio 1179<br>Nogales, Sonora C.P. 84020<br>Mexico |
| **AEROFLITE** enterprise, inc | (B) | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **AIR ELECTRO INC** | AEI | 9452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| **B.J.G. Electronics** | BJG | 141 Remington Boulevard<br>Ronkonkoma, NY 11779-6911<br>USA |
| **CTI** Connector Technology Inc. | CTI | 135 Industry Court Kalispell,<br>MT 59901<br>USA |
| **TTI** | | 2601 Sylvania Cross Drive<br>Fort Worth, TX 76137 TX<br>USA |
| **KAPCO** | KA1 | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |

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| Value Added Distributor in EUROPE | LOGO | ADDRESS |
|---|---|---|
| ~~**A.E. Potscho Co.**~~ | ~~V~~ | ~~Amperestraat 9 5928 PE, Venlo Netherland~~ |
| **DOMAR** | DMR | ul.Botaniczna 52/56<br>04-543 Warsawa<br>Poland |
| **F.C. LANE** Electronics Ltd. | FC | Category C distributor of Souriau Connectors<br>Slinfold Lodge ,<br>Horsham, West Sussex RH 13 7RN UK |
| **KAPCO GLOBAL**<br>Formerly AVIALEC International | A | KAPCO HOUSE<br>37 Woolmer Way<br>Bordon Hampshire GU35 9QE - ENGLAND |
| **MPS** ELECTRONIC Vertriebs GmbH | mps | Pfarrer-Huber-Ring 8<br>83620 feldkirchen-Westerham<br>Germany |
| **ROSENBERGER FILCON** GmbH | D | SiemensstraBe 7<br>D-85521 OTTOBRUNN<br>Germany |
| **SERVO** AND ELECTRONICS SALES LTD | SVO | Connector House<br>Harden Road, Lydd<br>Kent, TN29 9LX<br>UK |
| **T&G ELEKTRO** | T&G | Boks 56, 3524 Nes I Adal<br>Norway |
| **TTI, Inc.** | TTI | Ganghoferstrasse 34<br>82216 Maisach-Gernlinden<br>Germany |
| **Raytech ADC** | RT | Hustenovska 2022<br>686 03 Stare Mesto<br>Czech Republic |

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| Value Added Distributor in other countries | LOGO | ADDRESS |
|---|---|---|
| **CHUBU NIHON MARUKO Co., LTD.** | CNM | 23-3 Noguchi<br>Komaki-Shi, Aichi-Ken<br>485-0806 Japan |
| **HICONNEX** | HCX | Mount Royal, Unit B3, James Crescent 657<br>Halfway House, Midrand<br>South Africa |

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BELGIUM

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Fax +32 2 775 8131

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Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

List of qualified products

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ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

## List of plants:

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| **A.E. Petsche Company Inc.** | ★ | Sonitronies, S.A. de C.V. DPTO<br>A.E. Petsche<br>Boulevard Luis Donaldo Colosio 1179<br>Nogales, Sonora C.P. 84020<br>Mexico |
| **AEROFLITE** enterprise, inc | (B) | 261 Gemini avenue<br>Brea, California 92821<br>USA |
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| **DOMAR** | DMR | ul.Botaniczna 52/56<br>04-543 Warsawa<br>Poland |
| **F.C. LANE** Electronics Ltd. | FC | Category C distributor of Souriau Connectors<br>Slinfold Lodge ,<br>Horsham, West Sussex RH 13 7RN UK |
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

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Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

List of qualified products

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** |
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ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

## List of plants:

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|---|---|---|
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| **SOURIAU MAROC** | T | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |

## List of VAD:

| Value Added Distributor in USA | LOGO | ADDRESS |
|---|---|---|
| **AE Petsche** | ★ | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| **AEROFLITE** enterprise, inc | (B) | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **AIR ELECTRO INC** | AEI | 9452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
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| **KAPCO UK**<br>Formerly AVIALEC International | A | Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
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| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3645-003) | EN3645-F0AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 0<br>Inserts N<br>EN3645F0*****M/F*<br>EN3645J0*****M/F*<br>EN3645K0*****MF*<br>EN3645M0*****M/F*<br>EN3645W0*****M/F* | 8D0-09F35PN<br><br><br><br><br>8D0-**F**P/S*<br>8D0-**J**P/S*<br>8D0-**K**P/S*<br>8D0-**M**P/S*<br>8D0-**W**P/S* | **A/09N** 35; 98<br>**B/11N** 01; 02; 05; 35; 12; 98; 99<br>**C/13N** 04; 08; 26; 35; 98<br>**D/15N** 05, 15, 18; 19; 35; 97<br>**E/17N** 02; 06; 08; 20; 22; 26; 35; 75; 99<br>**F/19N** 11; 32; 35<br>**G/21N** 11; 16; 35; 39; 41;75<br>**H/23N** 06; 21; 35; 53; 54; 55<br>**J/25N** 04; 07; 08; 11; 19; 20; 24; 29; 35; 37; 43; 46; 61 |
| Plug<br><br>(EN3645-008) | EN3645-F6AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 6<br>Inserts N<br>EN3645F6*****M/F*<br>EN3645J6*****M/F*<br>EN3645K6*****M/F*<br>EN3645M6*****M/F*<br>EN3645W6*****M/F* | 8D5-09F35PN<br><br><br><br><br>8D5-**F**P/S*<br>8D5-**J**P/S*<br>8D5-**K**P/S*<br>8D5-**M**P/S*<br>8D5-**W**P/S* | |
| Receptacle, Jam nut mounting<br><br>(EN 3645-009) | EN3645-F7AN35MN<br>Positions N A B C D E<br>Models F K W<br>Type 7<br>Inserts N<br>EN3645F7*****M/F*<br>EN3645K7*****M/F*<br>EN3645W7*****M/F* | 8D7-09F35PN<br><br><br><br><br>8D7-**F**P/S*<br>8D7-**K**P/S*<br>8D7-**W**P/S* | |

ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

List of plants:

| PLANTS | LOGO | ADDRESS |
|---|---|---|
| **SOURIAU SARTHE** | none | RN 23<br>72470 Champagne<br>France |
| **SOURIAU MAROC** | T | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |

List of VAD:

| Value Added Distributor in USA | LOGO | ADDRESS |
|---|---|---|
| **AE Petsche** | ★ | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| **AEROFLITE** enterprise, inc | (B) | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **AIR ELECTRO INC** | AEI | 9452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| **B.J.G. Electronics** | BJG | 141 Remington Boulevard<br>Ronkonkoma, NY 11779-6911<br>USA |
| **CTI** Connector Technology Inc. | CTI | 135 Industry Court Kalispell,<br>MT 59901<br>USA |
| **TTI** |  | 2601 Sylvania Cross Drive<br>Fort Worth, TX 76137 TX<br>USA |
| **KAPCO** | KA1 | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |

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Certification of Aerospace Quality Systems

| Value Added Distributor in EUROPE | LOGO | ADDRESS |
|---|---|---|
| **A.E. Petsche Co.** | V | Amperestraat 9<br>5928 PE, Venlo<br>Netherland |
| **DOMAR** | DMR | ul.Botaniczna 52/56<br>04-543 Warsawa<br>Poland |
| **F.C. LANE** Electronics Ltd. | FC | Category C distributor of Souriau Connectors<br>Slinfold Lodge ,<br>Horsham, West Sussex RH 13 7RN UK |
| **KAPCO UK**<br>Formerly AVIALEC International | A | Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
| **MPS** ELECTRONIC Vertriebs GmbH | mps | Pfarrer-Huber-Ring 8<br>83620 feldkirchen-Westerham<br>Germany |
| **ROSENBERGER FILCON** GmbH | D | SiemensstraBe 7<br>D-85521 OTTOBRUNN<br>Germany |
| **SERVO** AND ELECTRONICS SALES LTD | SVO | Connector House<br>Harden Road, Lydd<br>Kent, TN29 9LX<br>UK |
| **T&G ELEKTRO** | T&G | Boks 56, 3524 Nes I Adal<br>Norway |
| **TTI, Inc.** | TTI | Ganghoferstrasse 34<br>82216 Maisach-Gernlinden<br>Germany |

| Value Added Distributor in other countries | LOGO | ADDRESS |
|---|---|---|
| **CHUBU NIHON MARUKO Co., LTD.** | CNM | 23-3 Noguchi<br>Komaki-Shi, Aichi-Ken<br>485-0806 Japan |
| **HICONNEX** | HCX | Mount Royal, Unit B3, James Crescent 657<br>Halfway House, Midrand<br>South Africa |

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 169 - RENEWAL** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008, -009<br>See Appendix for the Qualified part number list and the list of VAD | MBR Report N°135 ACP005-Form 2 Date 2012-06-15 & MBR Report N°198 Date 2013-01-28 & MBR Report N°209 Date 2013-03-18<br>Trevor Williams, QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

18/01/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT

PQ 169 - Appendix 1 for the Qualified part number list

List of qualified products

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3645-003) | EN3645-F0AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 0<br>Inserts N<br>EN3645F0*****M/F*<br>EN3645J0*****M/F*<br>EN3645K0*****MF*<br>EN3645M0*****M/F*<br>EN3645W0*****M/F* | 8D0-09F35PN<br><br><br><br><br>8D0-**F**P/S*<br>8D0-**J**P/S*<br>8D0-**K**P/S*<br>8D0-**M**P/S*<br>8D0-**W**P/S* | **A/09N** 35; 98<br>**B/11N** 01; 02; 05; 35; 12; 98; 99<br>**C/13N** 04; 08; 26; 35; 98<br>**D/15N** 05, 15, 18; 19; 35; 97<br>**E/17N** 02; 06; 08; 20; 22; 26; 35; 75; 99<br>**F/19N** 11; 32; 35<br>**G/21N** 11; 16; 35; 39; 41;75<br>**H/23N** 06; 21; 35; 53; 54; 55<br>**J/25N** 04; 07; 08; 11; 19; 20; 24; 29; 35; 37; 43; 46; 61 |
| Plug<br><br>(EN3645-008) | EN3645-F6AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 6<br>Inserts N<br>EN3645F6*****M/F*<br>EN3645J6*****M/F*<br>EN3645K6*****M/F*<br>EN3645M6*****M/F*<br>EN3645W6*****M/F* | 8D5-09F35PN<br><br><br><br><br>8D5-**F**P/S*<br>8D5-**J**P/S*<br>8D5-**K**P/S*<br>8D5-**M**P/S*<br>8D5-**W**P/S* | |
| Receptacle, Jam nut mounting<br><br>(EN 3645-009) | EN3645-F7AN35MN<br>Positions N A B C D E<br>Models F K W<br>Type 7<br>Inserts N<br>EN3645F7*****M/F*<br>EN3645K7*****M/F*<br>EN3645W7*****M/F* | 8D7-09F35PN<br><br><br><br><br>8D7-**F**P/S*<br>8D7-**K**P/S*<br>8D7-**W**P/S* | |

ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

## List of plants:

| PLANTS | LOGO | ADDRESS |
|---|---|---|
| **SOURIAU SARTHE** | none | RN 23<br>72470 Champagne<br>France |
| **SOURIAU MAROC** | T | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |

## List of VAD:

| Value Added Distributor in USA | LOGO | ADDRESS |
|---|---|---|
| **AE Petsche** |  | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| **AEROFLITE** enterprise, inc | (B) | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **AIR ELECTRO INC** | AEI | 9452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| **B.J.G. Electronics** | BJG | 141 Remington Boulevard<br>Ronkonkoma, NY 11779-6911<br>USA |
| **CTI** Connector Technology Inc. | CTI | 135 Industry Court Kalispell,<br>MT 59901<br>USA |
| **TTI** |  | 2601 Sylvania Cross Drive<br>Fort Worth, TX 76137 TX<br>USA |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

| Value Added Distributor in EUROPE | LOGO | ADDRESS |
|---|---|---|
| **A.E. Petsche Co.** | V | Amperestraat 9<br>5928 PE, Venlo<br>Netherland |
| **DOMAR** | DMR | ul.Botaniczna 52/56<br>04-543 Warsawa<br>Poland |
| **F.C. LANE** Electronics Ltd. | FC | Category C distributor of Souriau Connectors<br>Slinfold Lodge ,<br>Horsham, West Sussex RH 13 7RN UK |
| **KAPCO UK**<br>Formerly AVIALEC International | A | Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
| **MPS** ELECTRONIC Vertriebs GmbH | mps | Pfarrer-Huber-Ring 8<br>83620 feldkirchen-Westerham<br>Germany |
| **ROSENBERGER FILCON** GmbH | D | SiemensstraBe 7<br>D-85521 OTTOBRUNN<br>Germany |
| **SERVO** AND ELECTRONICS SALES LTD | SVO | Connector House<br>Harden Road, Lydd<br>Kent, TN29 9LX<br>UK |
| **T&G ELEKTRO** | T&G | Boks 56, 3524 Nes I Adal<br>Norway |
| **TTI, Inc.** | TTI | Ganghoferstrasse 34<br>82216 Maisach-Gernlinden<br>Germany |

| Value Added Distributor in other countries | LOGO | ADDRESS |
|---|---|---|
| **CHUBU NIHON MARUKO Co., LTD.** | CNM | 23-3 Noguchi<br>Komaki-Shi, Aichi-Ken<br>485-0806 Japan |
| **HICONNEX** | HCX | Mount Royal, Unit B3, James Crescent 657<br>Halfway House, Midrand<br>South Africa |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 169 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008, -009<br>See Appendix for the Qualified part number list and the list of VAD | MBR Report N°135 ACP005-Form 2<br>Date 2012-06-15<br>Trevor Williams, QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

18/01/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT

PQ 169 - Appendix 1 for the Qualified part number list

List of qualified products

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3645-003) | EN3645-F0AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 0<br>Inserts N<br>EN3645F0*****M/F*<br>EN3645J0*****M/F*<br>EN3645K0*****MF*<br>EN3645M0*****M/F*<br>EN3645W0*****M/F* | 8D0-09F35PN<br><br><br><br><br>8D0-**F**P/S*<br>8D0-**J**P/S*<br>8D0-**K**P/S*<br>8D0-**M**P/S*<br>8D0-**W**P/S* | **A/09N** 35; 98<br>**B/11N** 01; 02; 05; 35; 12; 98; 99<br>**C/13N** 04; 08; 26; 35; 98<br>**D/15N** 05, 15, 18; 19; 35; 97<br>**E/17N** 02; 06; 08; 20; 22; 26; 35; 75; 99<br>**F/19N** 11; 32; 35<br>**G/21N** 11; 16; 35; 39; 41;75<br>**H/23N** 06; 21; 35; 53; 54; 55<br>**J/25N** 04; 07; 08; 11; 19; 20; 24; 29; 35; 37; 43; 46; 61 |
| Plug<br><br>(EN3645-008) | EN3645-F6AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 6<br>Inserts N<br>EN3645F6*****M/F*<br>EN3645J6*****M/F*<br>EN3645K6*****M/F*<br>EN3645M6*****M/F*<br>EN3645W6*****M/F* | 8D5-09F35PN<br><br><br><br><br>8D5-**F**P/S*<br>8D5-**J**P/S*<br>8D5-**K**P/S*<br>8D5-**M**P/S*<br>8D5-**W**P/S* | |
| Receptacle, Jam nut mounting<br><br>(EN 3645-009) | EN3645-F7AN35MN<br>Positions N A B C D E<br>Models F K W<br>Type 7<br>Inserts N<br>EN3645F7*****M/F*<br>EN3645K7*****M/F*<br>EN3645W7*****M/F* | 8D7-09F35PN<br><br><br><br><br>8D7-**F**P/S*<br>8D7-**K**P/S*<br>8D7-**W**P/S* | |

T. Grenot

ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

## List of plants:

| PLANTS | LOGO | ADDRESS |
|---|---|---|
| **SOURIAU SARTHE** | none | RN 23<br>72470 Champagne<br>France |
| **SOURIAU MAROC** | T | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |

## List of VAD:

| Value Added Distributor in USA | LOGO | ADDRESS |
|---|---|---|
| **AE Petsche** | ★ | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| **AEROFLITE** enterprise, inc | B | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **AIR ELECTRO INC.** | AEI | 9452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| **B.J.G. Electronics** | BJG | 160 Gary way<br>Ronkonkoma, New York 11779<br>USA |
| **CTI** Connector Technology Inc. | GTI | 135 Industry Court Kalispell,<br>MT 59901<br>USA |
| **TTI** | | 2601 Sylvania Cross Drive<br>Fort Worth, TX 76137 TX<br>USA |

ASD-CERT
PQ 169 - Appendix 2 for the List of VAD

| Value Added Distributor in EUROPE | LOGO | ADDRESS |
|---|---|---|
| **DOMAR** | DMR | ul.Botaniczna 52/56<br>04-543 Warsawa<br>Poland |
| **F.C. LANE** Electronics Ltd. | FC | Category C distributor of Souriau Connectors<br>Slinfold Lodge ,<br>Horsham, West Sussex RH 13 7RN UK |
| **KAPCO UK**<br>Formerly AVIALEC International | A | Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
| **MPS** ELECTRONIC Vertriebs GmbH | mps | Pfarrer-Huber-Ring 8<br>83620 feldkirchen-Westerham<br>Germany |
| **ROSENBERGER FILCON** GmbH | D | SiemensstraBe 7<br>D-85521 OTTOBRUNN<br>Germany |
| **SERVO** AND ELECTRONICS SALES LTD | SVO | Connector House<br>Harden Road, Lydd<br>Kent, TN29 9LX<br>UK |
| **T&G ELEKTRO** | T&G | Boks 56, 3524 Nes I Adal<br>Norway |
| **TTI, Inc.** | TTI | Ganghoferstrasse 34<br>82216 Maisach-Gernlinden<br>Germany |

| Value Added Distributor in other countries | LOGO | ADDRESS |
|---|---|---|
| **CHUBU NIHON MARUKO Co., LTD.** | CNM | 23-3 Noguchi<br>Komaki-Shi, Aichi-Ken<br>485-0806 Japan |
| **HICONNEX** | HCX | Mount Royal, Unit B3, James Crescent 657<br>Halfway House, Midrand<br>South Africa |

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 169**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3645-001 | EN3645-003, -008, -009 | MR/JQP/2009-01<br>L. LEBLANC - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

2 July 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

## APPENDIX : List of qualified products

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3645-003) | EN3645-F0AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 0<br>Inserts N<br>EN3645F0*****M/F*<br>EN3645J0*****M/F*<br>EN3645K0*****MF*<br>EN3645M0*****M/F*<br>EN3645W0*****M/F* | 8D0-09F35PN<br><br><br><br><br>8D0-**F**P/S*<br>8D0-**J**P/S*<br>8D0-**K**P/S*<br>8D0-**M**P/S*<br>8D0-**W**P/S* | **A/09N** 35; 98<br>**B/11N** 01; 02; 05; 35; -98; 99<br>**C/13N** 04; 08; 26; 35; 98<br>**D/15N** 05, 15, 18; 19; 35; 97<br>**E/17N** 02; 06; 08; 26; 35; 75; 99<br>**F/19N** 11; 32; 35<br>**G/21N** 11; 16; 35; 39; 41;75<br>**H/23N** 21; 35; 53; 54; 55<br>**J/25N** 04; 07; 08; 11; 19; 24; 29; 35; 37; 43; 46; 61<br><br>**J/25N**-20 for models F, K, W only |
| Plug<br><br>(EN3645-008) | EN3645-F6AN35MN<br>Positions N A B C D E<br>Models F J K M W<br>Type 6<br>Inserts N<br>EN3645F6*****M/F*<br>EN3645J6*****M/F*<br>EN3645K6*****M/F*<br>EN3645M6*****M/F*<br>EN3645W6*****M/F* | 8D5-09F35PN<br><br><br><br><br>8D5-**F**P/S*<br>8D5-**J**P/S*<br>8D5-**K**P/S*<br>8D5-**M**P/S*<br>8D5-**W**P/S* | |
| Receptacle, Jam nut mounting<br><br>(EN 3645-009) | EN3645-F7AN35MN<br>Positions N A B C D E<br>Models F K W<br>Type 7<br>Inserts N<br>EN3645F7*****M/F*<br>EN3645K7*****M/F*<br>EN3645W7*****M/F* | 8D7-09F35PN<br><br><br><br><br>8D7-**F**P/S*<br>8D7-**K**P/S*<br>8D7-**W**P/S* | |

## APPENDIX : List of VAD

| Value Added Distributor | ADDRESS |
|---|---|
| **AIR ELECTRO INC.** | 9452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| **AE Petsche** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| **AEROFLITE** enterprise, inc | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **AVIALEC International** | Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
| **B.J.G. Electronics** | 160 Gary way<br>Ronkonkoma, New York 11779<br>USA |
| **CHUBU NIHON MARUKO** Co., LTD. | 23-3 Noguchi<br>Komaki-Shi, Aichi-Ken<br>485-0806 Japan |
| **CTI** Connector Technology Inc. | 135 Industry Court Kalispell,<br>MT 59901<br>USA |
| **F.C. LANE** Electronics Ltd. | Category C distributor of Souriau Connectors<br>Slinfold Lodge ,<br>Horsham, West Sussex RH 13 7RN UK |
| **HICONNEX** | Mount Royal, Unit B3, James Crescent 657<br>Halfway House, Midrand<br>South Africa |
| **MPS** ELECTRONIC Vertriebs GmbH | Pfarrer-Huber-Ring 8<br>83620 feldkirchen-Westerham<br>Germany |
| **ROSENBERGER FILCON GmbH** | Category C distributor<br>SiemensstraBe 7<br>D-85521 OTTOBRUNN<br>Germany |
| **T&G ELEKTRO** | Boks 56, 3524 Nes I Adal<br>Norway |

| Value Added Distributor | ADDRESS |
|---|---|
| **WINGS** Electro Sales Company Inc | 11300 Fortune Circle<br>Wellington, Florida 33414<br>USA |
| **SERVO** AND ELECTRONICS SALES LTD | Connector House<br>Harden Road, Lydd<br>Kent, TN29 9LX<br>UK |
| **TTI** | 2601 Sylvania Cross Drive<br>Fort Worth, TX 76137 TX<br>USA |
| **DOMAR** | ul.Botaniczna 52/56<br>04-543 Warsawa<br>Poland |

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 168 Renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Bollhoff Armstrong LTD
Stoneferry Business Park, Foster Street
HULL
HU8 8BT
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2 943 | EN2942-040 | Report: N°221<br>for_Bollhoff_ACP005 Form2–2013/05/22<br>Keith Allen, Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24/10/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 168**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ARMSTRONG PRECISION COMPONENTS LTD
Stoneferry Business Park, Foster Street
HULL
HU8 8BT
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2943 | EN2942-040 | ESD 9409 - 30/04/2009<br>Philip Edwards - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

26 June 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 167**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Alcoa Fastening Systems (Linread Northbridge)
Viking Road, Wigston
Leicester, LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3685 | EN 3686-050 | Report: N°240 for ALCOA<br>ACP005 Form2– 2013/10/23<br>Keith ALLEN, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**DECEMBER 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
22/11/2013

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 167**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3686-050 | ESD 9391 - December 2008<br>M. STOCK - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

19 June 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 166**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3299 | EN3728- 016, -037, -038<br>EN4396-016, -037, -038 | 6525 - 6529 - 6533 - 17/03/2009<br>P. GENG - MTU |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

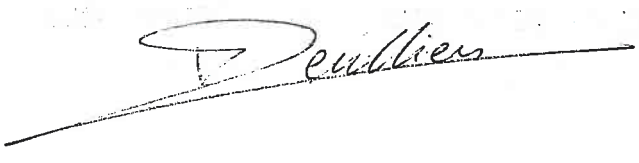
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 18 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 165**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3687-080 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 164**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN3832-050, -060, -080, -100, -120 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

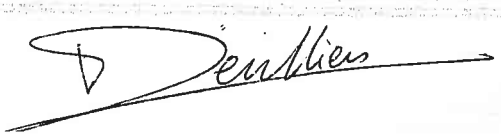
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 163**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9 rue des Cressonnières
72110 SAINT COSME EN VAIRAIS
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4047 | EN4011-050 | SNECMA Report - February 2009<br>Philippe Henry - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

23 March 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

Devilliers

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 162**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4048 | EN4012-100 | ACP005 form 2 - Report for LISI<br>Rev 1 : 2011/07/28<br>CAPBLANCQ Michel<br>(TURBOMECA) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 01/02/2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 162**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4048 | EN4012-100 | EF/GP/DJ 21694 - November 2008<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

16 March 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 161**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN4352-100040 | EF/GP/DJ 21646 - October 2008<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

16 March 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 160**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2910-070 | EF/GP/DJ 21501 - June 2008<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

16 March 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 159 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS
191 Barkby Road
Troon Industrial Estate - Thurmaston
Leicester LE4 9HX
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN2926-070 | MBR Report N°293 (PQ159)<br>ACP005-Form 2 Date 2014-04-07<br>Philip Edwards, Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

25/07/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 159**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS
191 Barkby Road
Troon Industrial Estate - Thurmaston
Leicester LE4 9HX
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN2926-070 | ESD 9350 - July 2008<br>Mickael Stock - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

10 March 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 158 Renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | Bollhoff Armstrong LTD<br>Stoneferry Business Park, Foster Street<br>HULL<br>HU8 8BT<br>UNITED KINGDOM |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2943 | EN2944-050<br>EN3542-050 | Report: N°148<br>for_Bollhoff_ACP005 Form2–2013/05/22<br>Keith Allen, Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 02/10/2013 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 158**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ARMSTRONG PRECISION COMPONENTS LTD
Stoneferry Business Park, Foster Street
HULL
HU8 8BT
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2943 | EN2944-050<br>EN3542-050 | ESD 9389 - 16/12/2008<br>ESD 9369 - 14/07/2008<br>Philip Edwards - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

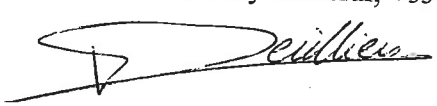
**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 9 March 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 157 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3646-001 | EN3646-See Appendix for the Qualified part number list and the list of VAD | Renewal, MBR Report N°127 ACP005-Form 2 Date 2012-08-31 by Marc BELLETTI, Airbus Helicopter<br>New VAD, MBR Report N°246 ACP005-Form 2 Date 2014-02-10 by Trevor Williams, QinetiQ<br>MBR Report N°199 ACP005-Form 2 Date 2013-07-17 by & Laurent Jallerat, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13/06/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

| | DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** OR SIZE |
|---|---|---|---|---|
| | Receptacle, Square flange mounting<br><br>(EN 3646-003) | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 0<br>EN3646A0****M/F*<br>EN3646RS0****M/F*<br>EN3646WS0****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-10R**B**P/S*H<br>8525-10N**B**P/S*H<br>8525-10W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| | Receptacle, Jam nut mounting<br><br>(EN 3646-004) | EN3646A72419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 7<br>EN3646A7****M/F*<br>EN3646RS7****M/F*<br>EN3646WS7****M/F* | 8525-17R24B19PNH<br><br><br><br>8525-17R**B**P/S*H<br>8525-17N**B**P/S*H<br>8525-17W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| NOT APPLICABLE TO VALUE ADDED DISTRIUTORS | Receptacle, Hermetic Square flange mounting (EN 3646-005) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 0<br>EN3646Y0****M* | 8525-02H24B31PNH<br><br><br>8525-02H**B**P/S*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| | Receptacle, Hermetic, Jam nut mounting (EN 3646-006) | EN3646Y72431MN<br>Positions N W X Y Z<br>Model Y<br>Type 7<br>EN3646Y7****M* | 8525-07H24B31PNH<br><br><br>8525-07H**B**P*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| | Hermetic receptacle round flange, welding or brazing mounting (EN 3646-007) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 1<br>EN3646Y1****M* | 8525-IH24B31PNH<br><br><br>8525-IH**B**P*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |

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Qualification of Aerospace Standard Products

| DESCRIPTION | | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** OR SIZE |
|---|---|---|---|---|
| Plug<br><br>(EN3646-008) | | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 6<br>EN3646A6****M/F*<br>EN3646RS6****M/F*<br>EN3646WS6****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-16R**B**P/S*H<br>8525-36N**B**P/S*H<br>8525-36W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| NOT APPLICABLE TO VALUE ADDED DISTRIUTORS | Protection cover for receptacles (EN3646-009) | EN3646A3C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A3CXX<br>EN3646RS3CXX<br>EN3646WS3CXX | 852-27R10<br><br><br><br>852-27RXX<br>852-27NXX<br>852-27WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| | Protection cover for plugs (EN3646-010) | EN3646A4C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A4CXX<br>EN3646RS4CXX<br>EN3646WS4CXX | 852-28R10<br><br><br><br>852-28RXX<br>852-28NXX<br>852-28WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| | Dummy receptacle (EN3646-011) | EN3646A510<br><br>Models A, RS, WS<br>Type 5<br>EN3646A5XX<br>EN3646RS5XX<br>EN3646WS5XX | 8526-07R10<br><br><br><br>8526-07RXX<br>8526-07NXX<br>8526-07XX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
PQ 157 - Appendix 2 for the List of VAD

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RN 23<br>72470 Champagne<br>FRANCE |
| **SOURIAU MAROC** | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |
| Value Added Distributor<br>**Air Cost Control**<br>**A2C** | Z.A. de Buconis<br>32600 L'Isle Jourdain<br>FRANCE |
| Value Added Distributor<br>**Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| Value Added Distributor<br>**Connector Technology Inc.** | 9 Veronica Avenue<br>Somerset, N.J 08873<br>USA |
| Value Added Distributor<br>**KAPCO**<br>*Formerly WINGS* | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |
| Value Added Distributor<br>**AIR ELECTRO INC** | 92452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| Value Added Distributor<br>**AE PETSCHE** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| Value Added Distributor<br>**MPS** | Pfarrer-Huber-Ring 8<br>83620 Feldkirchen-Westerham - Germany |

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 157 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3646-001 | EN3646-See Appendix for the Qualified part number list and the list of VAD | Renewal, MBR Report N°127 (PQ157) ACP005-Form 2 Date 2012-08-31<br>Marc BELLETTI, Airbus Helicopter<br>New VAD, MBR Report N°246 (PQ157) ACP005-Form 2 Date 2014-02-10<br>Trevor Williams, QinetiQ |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13/06/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

| | DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** OR SIZE |
|---|---|---|---|---|
| | Receptacle, Square flange mounting<br><br>(EN 3646-003) | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 0<br>EN3646A0****M/F*<br>EN3646RS0****M/F*<br>EN3646WS0****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-10R**B**P/S*H<br>8525-10N**B**P/S*H<br>8525-10W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| | Receptacle, Jam nut mounting<br><br>(EN 3646-004) | EN3646A72419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 7<br>EN3646A7****M/F*<br>EN3646RS7****M/F*<br>EN3646WS7****M/F* | 8525-17R24B19PNH<br><br><br><br>8525-17R**B**P/S*H<br>8525-17N**B**P/S*H<br>8525-17W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| NOT APPLICABLE TO VALUE ADDED DISTRIUTORS | Receptacle, Hermetic Square flange mounting (EN 3646-005) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 0<br>EN3646Y0****M* | 8525-02H24B31PNH<br><br><br><br>8525-02H**B**P/S*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| | Receptacle, Hermetic, Jam nut mounting (EN 3646-006) | EN3646Y72431MN<br>Positions N W X Y Z<br>Model Y<br>Type 7<br>EN3646Y7****M* | 8525-07H24B31PNH<br><br><br><br>8525-07H**B**P*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| | Hermetic receptacle round flange, welding or brazing mounting (EN 3646-007) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 1<br>EN3646Y1****M* | 8525-IH24B31PNH<br><br><br><br>8525-IH**B**P*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |

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| DESCRIPTION | | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** OR SIZE |
|---|---|---|---|---|
| Plug<br><br>(EN3646-008) | | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 6<br>EN3646A6****M/F*<br>EN3646RS6****M/F*<br>EN3646WS6****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-16R**B**P/S*H<br>8525-36N**B**P/S*H<br>8525-36W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| NOT APPLICABLE TO VALUE ADDED DISTRIUTORS | Protection cover for receptacles (EN3646-009) | EN3646A3C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A3CXX<br>EN3646RS3CXX<br>EN3646WS3CXX | 852-27R10<br><br><br><br>852-27RXX<br>852-27NXX<br>852-27WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| | Protection cover for plugs (EN3646-010) | EN3646A4C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A4CXX<br>EN3646RS4CXX<br>EN3646WS4CXX | 852-28R10<br><br><br><br>852-28RXX<br>852-28NXX<br>852-28WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| | Dummy receptacle (EN3646-011) | EN3646A510<br>Models A, RS, WS<br>Type 5<br>EN3646A5XX<br>EN3646RS5XX<br>EN3646WS5XX | 8526-07R10<br><br><br><br>8526-07RXX<br>8526-07NXX<br>8526-07XX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
PQ 157 - Appendix 2 for the List of VAD

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RN 23<br>72470 Champagne<br>FRANCE |
| **SOURIAU MAROC** | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |
| Value Added Distributor<br>**Air Cost Control**<br>**A2C** | Z.A. de Buconis<br>32600 L'Isle Jourdain<br>FRANCE |
| Value Added Distributor<br>**Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| Value Added Distributor<br>**Connector Technology Inc.** | 9 Veronica Avenue<br>Somerset, N.J 08873<br>USA |
| Value Added Distributor<br>**KAPCO**<br>*Formerly WINGS* | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |
| Value Added Distributor<br>**AIR ELECTRO INC** | 92452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| Value Added Distributor<br>**AE PETSCHE** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| Value Added Distributor<br>**MPS** | Pfarrer-Huber-Ring 8<br>83620 Feldkirchen-Westerham - Germany |

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ASD-CERT
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Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 157 - RENEWAL** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3646-001 | EN3646-See Appendix for the Qualified part number list and the list of VAD | MBR Report N°127(PQ157)<br>ACP005-Form 2 Date 2012-08-31<br>Marc BELLETTI, Airbus Helicopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13/06/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 157 - Appendix 1 for the Qualified part number list

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** OR SIZE |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3646-003) | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 0<br>EN3646A0****M/F*<br>EN3646RS0****M/F*<br>EN3646WS0****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-10R**B**P/S*H<br>8525-10N**B**P/S*H<br>8525-10W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| Receptacle, Jam nut mounting<br><br>(EN 3646-004) | EN3646A72419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 7<br>EN3646A7****M/F*<br>EN3646RS7****M/F*<br>EN3646WS7****M/F* | 8525-17R24B19PNH<br><br><br><br>8525-17R**B**P/S*H<br>8525-17N**B**P/S*H<br>8525-17W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| NOT APPLICABLE TO VALUE ADDED DISTRIUTORS | Receptacle, Hermetic Square flange mounting (EN 3646-005) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 0<br>EN3646Y0****M* | 8525-02H24B31PNH<br><br><br>8525-02H**B**P/S*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| | Receptacle, Hermetic, Jam nut mounting (EN 3646-006) | EN3646Y72431MN<br>Positions N W X Y Z<br>Model Y<br>Type 7<br>EN3646Y7****M* | 8525-07H24B31PNH<br><br><br>8525-07H**B**P*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| | Hermetic receptacle round flange, welding or brazing mounting (EN 3646-007) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 1<br>EN3646Y1****M* | 8525-IH24B31PNH<br><br><br>8525-IH**B**P*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |

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Association of Aerospace Standard Products

| DESCRIPTION | | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** OR SIZE |
|---|---|---|---|---|
| Plug<br><br>(EN3646-008) | | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 6<br>EN3646A6****M/F*<br>EN3646RS6****M/F*<br>EN3646WS6****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-16R**B**P/S*H<br>8525-36N**B**P/S*H<br>8525-36W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| NOT APPLICABLE TO VALUE ADDED DISTRIUTORS | Protection cover for receptacles (EN3646-009) | EN3646A3C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A3CXX<br>EN3646RS3CXX<br>EN3646WS3CXX | 852-27R10<br><br><br><br>852-27RXX<br>852-27NXX<br>852-27WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| | Protection cover for plugs (EN3646-010) | EN3646A4C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A4CXX<br>EN3646RS4CXX<br>EN3646WS4CXX | 852-28R10<br><br><br><br>852-28RXX<br>852-28NXX<br>852-28WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| | Dummy receptacle (EN3646-011) | EN3646A510<br><br>Models A, RS, WS<br>Type 5<br>EN3646A5XX<br>EN3646RS5XX<br>EN3646WS5XX | 8526-07R10<br><br><br><br>8526-07RXX<br>8526-07NXX<br>8526-07XX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
PQ 157 - Appendix 2 for the List of VAD

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RN 23<br>72470 Champagne<br>FRANCE |
| **SOURIAU MAROC** | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER MAROC |
| Value Added Distributor<br>**Air Cost Control**<br>**A2C** | Z.A. de Buconis<br>32600 L'Isle Jourdain<br>FRANCE |
| Value Added Distributor<br>**Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| Value Added Distributor<br>**Connector Technology Inc.** | 9 Veronica Avenue<br>Somerset, N.J 08873<br>USA |
| Value Added Distributor<br>**KAPCO**<br>*Formerly WINGS* | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |
| Value Added Distributor<br>**AIR ELECTRO INC** | 92452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231<br>USA |
| Value Added Distributor<br>**AE PETSCHE** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |

ASD-CERT
Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 157**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SOURIAU
RN 23
72470 CHAMPAGNE - FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

SOURIAU MAROC
Ilot 63, Lot 1
Zone franche Aéroportuaire de Tanger
Route de Rabat
9000 TANGER
MAROC

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3646 | EN3646-003<br>to EN3646-011 | EDDLE 83/2008<br>03/12/2008<br>L. LEBLANC - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**Janvier 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
21 Janvier 2009

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** OR SIZE |
|---|---|---|---|
| Receptacle, Square flange mounting<br><br>(EN 3646-003) | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 0<br>EN3646A0****M/F*<br>EN3646RS0****M/F*<br>EN3646WS0****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-10R**B**P/S*H<br>8525-10N**B**P/S*H<br>8525-10W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| Receptacle, Jam nut mounting<br><br>(EN 3646-004) | EN3646A72419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 7<br>EN3646A7****M/F*<br>EN3646RS7****M/F*<br>EN3646WS7****M/F* | 8525-17R24B19PNH<br><br><br><br>8525-17R**B**P/S*H<br>8525-17N**B**P/S*H<br>8525-17W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| Receptacle, Hermetic Square flange mounting<br><br>(EN 3646-005) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 0<br>EN3646Y0****M/F* | 8525-02H24B31PNH<br><br><br><br>8525-02H**B**P/S*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| Receptacle, Hermetic, Jam nut mounting<br><br>(EN 3646-006) | EN3646Y72431MN<br>Positions N W X Y Z<br>Model Y<br>Type 7<br>EN3646Y7****M/F* | 8525-07H24B31PNH<br><br><br><br>8525-02H**B**P/S*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |
| Hermetic receptacle round flange, welding or brazing mounting<br><br>(EN 3646-007) | EN3646Y02431MN<br>Positions N W X Y Z<br>Model Y<br>Type 1<br>EN3646Y1****M/F* | 8525-IH24B31PNH<br><br><br><br>8525-IH**B**P/S*H | 8-3A, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -26<br>18-08, -32<br>20-16, -41<br>22-21, -41, -55<br>24-61 |

| DESCRIPTION | TYPICAL STANDARD PART NUMBER | TYPICAL SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **_** OR SIZE |
|---|---|---|---|
| Plug<br><br>(EN3646-008) | EN3646A02419MN<br>Positions N W X Y Z<br>Models A, RS, WS<br>Type 6<br>EN3646A6****M/F*<br>EN3646RS6****M/F*<br>EN3646WS6****M/F* | 8525-10R24B19PNH<br><br><br><br>8525-16R**B**P/S*H<br>8525-36N**B**P/S*H<br>8525-36W**B**P/S*K | 8-3A, -98, 33<br>10-02, -06<br>12-03, -08, -10<br>14-04, -05, -12, -15, -19<br>16-08, -21, -23, -26<br>18-08, -11, -32<br>20-16, -34, -39, -41<br>22-12, -21, -41, -55<br>24-19, -31, -61 |
| Protection cover for receptacles<br><br>(EN3646-009) | EN3646A3C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A3CXX<br>EN3646RS3CXX<br>EN3646WS3CXX | 852-27R10<br><br><br><br>852-27RXX<br>852-27NXX<br>852-27WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| Protection cover for plugs<br><br>(EN3646-010) | EN3646A4C10<br>Attachement Code C<br>Models A, RS, WS<br>Type 3<br>EN3646A4CXX<br>EN3646RS4CXX<br>EN3646WS4CXX | 852-28R10<br><br><br><br>852-28RXX<br>852-28NXX<br>852-28WXX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |
| Dummy receptacle<br><br>EN3646-011) | EN3646A510<br><br>Models A, RS, WS<br>Type 5<br>EN3646A5XX<br>EN3646RS5XX<br>EN3646WS5XX | 8526-07R10<br><br><br><br>8526-07RXX<br>8526-07NXX<br>8526-07XX | 08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 |

APPENDIX 2

**QUALIFIED VALUE ADDED DISDRIBUTORS (VAD)**
The following Place of Value Added Distributors are qualified:

| PLANT | ADDRESS |
|---|---|
| **SOURIAU MAROC** | Ilot 63, lot 1<br>Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 TANGER<br>MAROC |
| **Air Cost Control**<br>**A2C** | Z.A. de Buconis<br>32600 L'Isle Jourdain<br>FRANCE |
| **Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| **Connector Technology Inc.** | 9 Veronica Avenue<br>Somerset, N.J 08873<br>USA |
| **WINGS** | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |
| **AIR ELECTRO INC** | 92452 De Soto Avenue<br>P.O. box 2231<br>Chatsworth, California 91313-2231 USA |
| **AE PETSCHE** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |

AECMA-CERT
N° 0002
The European Association of Aerospace Industries
- Certification -

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 156 - RENEWAL** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ETS Caillau
62, Boulevard Jean Jaures
41200 ROMORANTIN
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4115 | EN2261,<br>EN2566,<br>EN3825 & EN3826 | Report: N°202-3 for_Caillau_ACP005 Form2– Issue 1_2013/10/24<br>Heinrich Hackmann- CASSIDIAN |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 14/02/2014
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 156**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
ETS Caillau
62, Boulevard Jean Jaures
41200 ROMORANTIN
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2566<br>EN3825<br>EN3826<br>EN2261 | EN4115 | Nr 2006-05<br>05/05/2008<br>H. Hackmann - EADS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

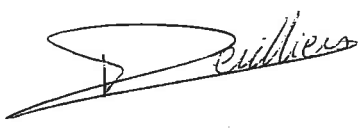
**December 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
11 December 2008

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 155 - RENEWAL** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ETS Caillau
62, Boulevard Jean Jaures
41200 ROMORANTIN
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3078 | EN3730<br>EN4113<br>EN4114 | Report: N°202-2 for_Caillau_ACP005 Form2– Issue 2_2013/10/17<br>Heinrich Hackmann- CASSIDIAN |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

14/02/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 155**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
ETS Caillau
62, Boulevard Jean Jaures
41200 ROMORANTIN
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3078 | EN3730<br>EN4113<br>EN4114 | Nr 2006-01, 2006-02, 2006-03<br>05/05/2008<br>H. Hackmann - EADS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
11 December 2008

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 154 - RENEWAL** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ETS Caillau
62, Boulevard Jean Jaures
41200 ROMORANTIN
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3077 | EN4234 | Report: N°202-1 for_Caillau_ACP005 Form2– Issue 3_2013/10/16<br>Heinrich Hackmann- CASSIDIAN |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

14/02/2014

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 154** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | ETS Caillau<br>62, Boulevard Jean Jaures<br>41200 ROMORANTIN<br>FRANCE |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | as above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3077 | EN4234 | Nr 2006-04<br>05/05/2008<br>H. Hackmann - EADS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 December 2008

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 153 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SEALTRON Inc
9705 Reading Road
Cincinnati, OHIO 45215
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-007 Class Y : see attachment | Report: ACP005 Form 2 for_Sealtron – 2011/10/27<br>Christian Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

29 June 2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 3. HERMETIC RECEPTACLE WITH ROUND FLANGE EN2997-007 Class Y

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997Y10803M* | BL6722-8-03P*SPM136 |
| EN2997Y10898M* | BL6722-8-98P*SPM136 |
| EN2997Y11002M* | BL6722-10-02P*SPM136 |
| EN2997Y11005M* | BL6722-10-05P*SPM136 |
| EN2997Y11006M* | BL6722-10-06P*SPM136 |
| EN2997Y11203M* | BL6722-12-03P*SPM136 |
| EN2997Y11212M* | BL6722-12-12P*SPM136 |
| EN2997Y11404M* | BL6722-14-04P*SPM136 |
| EN2997Y11407M* | BL6722-14-07P*SPM136 |
| EN2997Y11412M* | BL6722-14-12P*SPM136 |
| EN2997Y11415M* | BL6722-14-15P*SPM136 |
| EN2997Y11610M* | BL6722-16-10P*SPM136 |
| EN2997Y11624M* | BL6722-16-24P*SPM136 |
| EN2997Y11806M* | BL6722-18-06P*SPM136 |
| EN2997Y11808M* | BL6722-18-08P*SPM136 |
| EN2997Y11814M* | BL6722-18-14P*SPM136 |
| EN2997Y11831M* | BL6722-18-31P*SPM136 |
| EN2997Y12016M* | BL6722-20-16P*SPM136 |
| EN2997Y12025M* | BL6722-20-25P*SPM136 |
| EN2997Y12028M* | BL6722-20-28P*SPM136 |
| EN2997Y12039M* | BL6722-20-39P*SPM136 |
| EN2997Y12041M* | BL6722-20-41P*SPM136 |
| EN2997Y12212M* | BL6722-22-12P*SPM136 |
| EN2997Y12219M* | BL6722-22-19P*SPM136 |
| EN2997Y12232M* | BL6722-22-32P*SPM136 |
| EN2997Y12239M* | BL6722-22-39P*SPM136 |
| EN2997Y12255M* | BL6722-22-55P*SPM136 |
| EN2997Y12430M* | BL6722-24-30P*SPM136 |
| EN2997Y12443M* | BL6722-24-43P*SPM136 |
| EN2997Y12449M* | BL6722-24-49P*SPM136 |
| EN2997Y12457M* | BL6722-24-57P*SPM136 |
| EN2997Y12461M* | BL6722-24-61P*SPM136 |
| EN2997Y12842M* | BL6722-28-42P*SPM136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 153**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SEALTRON Inc
9705 Reading Road
Cincinnati, OHIO 45215
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See Attachment | EN2997-007 Class Y : see attachment | QTR 736 February 2008<br>Louis Leblanc,<br>Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
3 October 2008

PLACE :
A :
ORT :
Brussels, Belgium

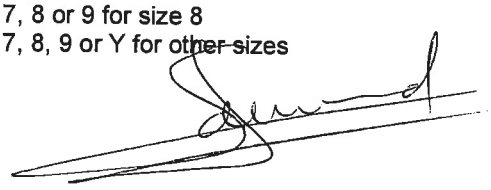
SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachement PQ 153

## 3. HERMETIC RECEPTACLE WITH ROUND FLANGE EN2997-007 Class Y

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997Y10803M* | BL6722-8-03P*SPM136 |
| EN2997Y10898M* | BL6722-8-98P*SPM136 |
| EN2997Y11002M* | BL6722-10-02P*SPM136 |
| EN2997Y11005M* | BL6722-10-05P*SPM136 |
| EN2997Y11006M* | BL6722-10-06P*SPM136 |
| EN2997Y11203M* | BL6722-12-03P*SPM136 |
| EN2997Y11212M* | BL6722-12-12P*SPM136 |
| EN2997Y11404M* | BL6722-14-04P*SPM136 |
| EN2997Y11407M* | BL6722-14-07P*SPM136 |
| EN2997Y11412M* | BL6722-14-12P*SPM136 |
| EN2997Y11415M* | BL6722-14-15P*SPM136 |
| EN2997Y11610M* | BL6722-16-10P*SPM136 |
| EN2997Y11624M* | BL6722-16-24P*SPM136 |
| EN2997Y11806M* | BL6722-18-06P*SPM136 |
| EN2997Y11808M* | BL6722-18-08P*SPM136 |
| EN2997Y11814M* | BL6722-18-14P*SPM136 |
| EN2997Y11831M* | BL6722-18-31P*SPM136 |
| EN2997Y12016M* | BL6722-20-16P*SPM136 |
| EN2997Y12025M* | BL6722-20-25P*SPM136 |
| EN2997Y12028M* | BL6722-20-28P*SPM136 |
| EN2997Y12039M* | BL6722-20-39P*SPM136 |
| EN2997Y12041M* | BL6722-20-41P*SPM136 |
| EN2997Y12212M* | BL6722-22-12P*SPM136 |
| EN2997Y12219M* | BL6722-22-19P*SPM136 |
| EN2997Y12232M* | BL6722-22-32P*SPM136 |
| EN2997Y12239M* | BL6722-22-39P*SPM136 |
| EN2997Y12255M* | BL6722-22-55P*SPM136 |
| EN2997Y12430M* | BL6722-24-30P*SPM136 |
| EN2997Y12443M* | BL6722-24-43P*SPM136 |
| EN2997Y12449M* | BL6722-24-49P*SPM136 |
| EN2997Y12457M* | BL6722-24-57P*SPM136 |
| EN2997Y12461M* | BL6722-24-61P*SPM136 |
| EN2997Y12842M* | BL6722-28-42P*SPM136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes



ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 152 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SEALTRON Inc
9705 Reading Road
Cincinnati, OHIO 45215
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-006 Class Y : see attachment | Report: ACP005 Form 2 for_Sealtron – 2011/10/27<br>Christian Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

29 June 2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

## 3. HERMETIC JAM-NUT MOUNTED RECEPTACLE EN2997-006 Class Y

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997Y70803M* | A6725-08-03P*SPM136 |
| EN2997Y70898M* | A6725-08-98P*SPM136 |
| EN2997Y71002M* | A6725-10-02P*SPM136 |
| EN2997Y71005M* | A6725-10-05P*SPM136 |
| EN2997Y71006M* | A6725-10-06P*SPM136 |
| EN2997Y71203M* | A6725-12-03P*SPM136 |
| EN2997Y71212M* | A6725-12-12P*SPM136 |
| EN2997Y71404M* | A6725-14-04P*SPM136 |
| EN2997Y71407M* | A6725-14-07P*SPM136 |
| EN2997Y71412M* | A6725-14-12P*SPM136 |
| EN2997Y71415M* | A6725-14-15P*SPM136 |
| EN2997Y71610M* | A6725-16-10P*SPM136 |
| EN2997Y71624M* | A6725-16-24P*SPM136 |
| EN2997Y71806M* | A6725-18-06P*SPM136 |
| EN2997Y71808M* | A6725-18-08P*SPM136 |
| EN2997Y71814M* | A6725-18-14P*SPM136 |
| EN2997Y71831M* | A6725-18-31P*SPM136 |
| EN2997Y72016M* | A6725-20-16P*SPM136 |
| EN2997Y72025M* | A6725-20-25P*SPM136 |
| EN2997Y72028M* | A6725-20-28P*SPM136 |
| EN2997Y72039M* | A6725-20-39P*SPM136 |
| EN2997Y72041M* | A6725-20-41P*SPM136 |
| EN2997Y72212M* | A6725-22-12P*SPM136 |
| EN2997Y72219M* | A6725-22-19P*SPM136 |
| EN2997Y72232M* | A6725-22-32P*SPM136 |
| EN2997Y72239M* | A6725-22-39P*SPM136 |
| EN2997Y72255M* | A6725-22-55P*SPM136 |
| EN2997Y72430M* | A6725-24-30P*SPM136 |
| EN2997Y72443M* | A6725-24-43P*SPM136 |
| EN2997Y72449M* | A6725-24-49P*SPM136 |
| EN2997Y72457M* | A6725-24-57P*SPM136 |
| EN2997Y72461M* | A6725-24-61P*SPM136 |
| EN2997Y72842M* | A6725-28-42P*SPM136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 152** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | SEALTRON Inc<br>9705 Reading Road<br>Cincinnati, OHIO 45215<br>USA |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | as above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See Attachment | EN2997-006 Class Y : see attachment | QTR 736 February 2008<br>Louis Leblanc,<br>Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 3 October 2008

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachement PQ 152

## 3. HERMETIC JAM-NUT MOUNTED RECEPTACLE EN2997-006 Class Y

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997Y70803M* | A6725-08-03P*SPM136 |
| EN2997Y70898M* | A6725-08-98P*SPM136 |
| EN2997Y71002M* | A6725-10-02P*SPM136 |
| EN2997Y71005M* | A6725-10-05P*SPM136 |
| EN2997Y71006M* | A6725-10-06P*SPM136 |
| EN2997Y71203M* | A6725-12-03P*SPM136 |
| EN2997Y71212M* | A6725-12-12P*SPM136 |
| EN2997Y71404M* | A6725-14-04P*SPM136 |
| EN2997Y71407M* | A6725-14-07P*SPM136 |
| EN2997Y71412M* | A6725-14-12P*SPM136 |
| EN2997Y71415M* | A6725-14-15P*SPM136 |
| EN2997Y71610M* | A6725-16-10P*SPM136 |
| EN2997Y71624M* | A6725-16-24P*SPM136 |
| EN2997Y71806M* | A6725-18-06P*SPM136 |
| EN2997Y71808M* | A6725-18-08P*SPM136 |
| EN2997Y71814M* | A6725-18-14P*SPM136 |
| EN2997Y71831M* | A6725-18-31P*SPM136 |
| EN2997Y72016M* | A6725-20-16P*SPM136 |
| EN2997Y72025M* | A6725-20-25P*SPM136 |
| EN2997Y72028M* | A6725-20-28P*SPM136 |
| EN2997Y72039M* | A6725-20-39P*SPM136 |
| EN2997Y72041M* | A6725-20-41P*SPM136 |
| EN2997Y72212M* | A6725-22-12P*SPM136 |
| EN2997Y72219M* | A6725-22-19P*SPM136 |
| EN2997Y72232M* | A6725-22-32P*SPM136 |
| EN2997Y72239M* | A6725-22-39P*SPM136 |
| EN2997Y72255M* | A6725-22-55P*SPM136 |
| EN2997Y72430M* | A6725-24-30P*SPM136 |
| EN2997Y72443M* | A6725-24-43P*SPM136 |
| EN2997Y72449M* | A6725-24-49P*SPM136 |
| EN2997Y72457M* | A6725-24-57P*SPM136 |
| EN2997Y72461M* | A6725-24-61P*SPM136 |
| EN2997Y72842M* | A6725-28-42P*SPM136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 151 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SEALTRON Inc
9705 Reading Road
Cincinnati, OHIO 45215
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-005 Class Y : see attachment | Report: ACP005 Form 2 for_Sealtron – 2011/10/27<br>Christian Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

29 June 2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

Attachment to PQ 151

## 1. HERMETIC SQUARE FLANGE RECEPTACLE EN2997-005 Class Y

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997Y00803M* | A6723-08-03P*SPM136 |
| EN2997Y00898M* | A6723-08-98P*SPM136 |
| EN2997Y01002M* | A6723-10-02P*SPM136 |
| EN2997Y01005M* | A6723-10-05P*SPM136 |
| EN2997Y01006M* | A6723-10-06P*SPM136 |
| EN2997Y01203M* | A6723-12-03P*SPM136 |
| EN2997Y01212M* | A6723-12-12P*SPM136 |
| EN2997Y01404M* | A6723-14-04P*SPM136 |
| EN2997Y01407M* | A6723-14-07P*SPM136 |
| EN2997Y01412M* | A6723-14-12P*SPM136 |
| EN2997Y01415M* | A6723-14-15P*SPM136 |
| EN2997Y01610M* | A6723-16-10P*SPM136 |
| EN2997Y01624M* | A6723-16-24P*SPM136 |
| EN2997Y01806M* | A6723-18-06P*SPM136 |
| EN2997Y01808M* | A6723-18-08P*SPM136 |
| EN2997Y01814M* | A6723-18-14P*SPM136 |
| EN2997Y01831M* | A6723-18-31P*SPM136 |
| EN2997Y02016M* | A6723-20-16P*SPM136 |
| EN2997Y02025M* | A6723-20-25P*SPM136 |
| EN2997Y02028M* | A6723-20-28P*SPM136 |
| EN2997Y02039M* | A6723-20-39P*SPM136 |
| EN2997Y02041M* | A6723-20-41P*SPM136 |
| EN2997Y02212M* | A6723-22-12P*SPM136 |
| EN2997Y02219M* | A6723-22-19P*SPM136 |
| EN2997Y02232M* | A6723-22-32P*SPM136 |
| EN2997Y02239M* | A6723-22-39P*SPM136 |
| EN2997Y02255M* | A6723-22-55P*SPM136 |
| EN2997Y02430M* | A6723-24-30P*SPM136 |
| EN2997Y02443M* | A6723-24-43P*SPM136 |
| EN2997Y02449M* | A6723-24-49P*SPM136 |
| EN2997Y02457M* | A6723-24-57P*SPM136 |
| EN2997Y02461M* | A6723-24-61P*SPM136 |
| EN2997Y02842M* | A6723-28-42P*SPM136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 151**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SEALTRON Inc
9705 Reading Road
Cincinnati, OHIO 45215
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See Attachment | EN2997-005 Class Y : see attachment | QTR 736 February 2008<br>Louis Leblanc,<br>Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 3 October 2008
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachement PQ 151

1. HERMETIC SQUARE FLANGE RECEPTACLE EN2997-005 Class Y

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997Y00803M* | A6723-08-03P*SPM136 |
| EN2997Y00898M* | A6723-08-98P*SPM136 |
| EN2997Y01002M* | A6723-10-02P*SPM136 |
| EN2997Y01005M* | A6723-10-05P*SPM136 |
| EN2997Y01006M* | A6723-10-06P*SPM136 |
| EN2997Y01203M* | A6723-12-03P*SPM136 |
| EN2997Y01212M* | A6723-12-12P*SPM136 |
| EN2997Y01404M* | A6723-14-04P*SPM136 |
| EN2997Y01407M* | A6723-14-07P*SPM136 |
| EN2997Y01412M* | A6723-14-12P*SPM136 |
| EN2997Y01415M* | A6723-14-15P*SPM136 |
| EN2997Y01610M* | A6723-16-10P*SPM136 |
| EN2997Y01624M* | A6723-16-24P*SPM136 |
| EN2997Y01806M* | A6723-18-06P*SPM136 |
| EN2997Y01808M* | A6723-18-08P*SPM136 |
| EN2997Y01814M* | A6723-18-14P*SPM136 |
| EN2997Y01831M* | A6723-18-31P*SPM136 |
| EN2997Y02016M* | A6723-20-16P*SPM136 |
| EN2997Y02025M* | A6723-20-25P*SPM136 |
| EN2997Y02028M* | A6723-20-28P*SPM136 |
| EN2997Y02039M* | A6723-20-39P*SPM136 |
| EN2997Y02041M* | A6723-20-41P*SPM136 |
| EN2997Y02212M* | A6723-22-12P*SPM136 |
| EN2997Y02219M* | A6723-22-19P*SPM136 |
| EN2997Y02232M* | A6723-22-32P*SPM136 |
| EN2997Y02239M* | A6723-22-39P*SPM136 |
| EN2997Y02255M* | A6723-22-55P*SPM136 |
| EN2997Y02430M* | A6723-24-30P*SPM136 |
| EN2997Y02443M* | A6723-24-43P*SPM136 |
| EN2997Y02449M* | A6723-24-49P*SPM136 |
| EN2997Y02457M* | A6723-24-57P*SPM136 |
| EN2997Y02461M* | A6723-24-61P*SPM136 |
| EN2997Y02842M* | A6723-28-42P*SPM136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT

Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 150** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

RIBE Verbindungstechnik GmbH & CO. KG
Bahnhofstraße 8-16
D-91226 Schwabach
Germany

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | See attachment | Gerhard Turlach, |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

12 June 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

ASD-CERT
Certification of Aerospace Standard Products

**Attachment to PQ 150**

## List of qualified standards

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| DIN 65-058 | LN 29 949 – 08 36 | E-6326 – 20/10/03 - Gerhard Turlach |
| DIN 65 058 | LN 29 949 – 05 16 | E-10 604 – 17/01/08 - Gerhard Turlach |
| LN 65 009 | LN 29 522 – 06 010 | E-6324 – 05/09/03 - Gerhard Turlach |
| DIN 65 149 | LN 9139 M 4 x 16 | E-6321 – 04/02/2003 - Gerhard Turlach |
| LN 65-010 Parts 1 & 2 | LN 9139 M 5 x 24 | E-8323 – 01/06/05 - Gerhard Turlach |
| LN 65-010 Parts 1 & 2 | LN 9037 M 6 x 58 | E-6443 – 18/02/03 - Gerhard Turlach |
| LN 65-010 Parts 1 & 2 | LN 9038 – 08 012 | E-6318 – 08/05/03 - Gerhard Turlach |
| LN 65-010 Parts 1 & 2 | LN 9037 – 08 038 | E-6315 – 21/02/03 - Gerhard Turlach |
| LN 65-010 Parts 1 & 2 | LN 9037 M 5 x 12 | E-6314 – 20/02/03 - Gerhard Turlach |
| LN 65-010 Parts 1 & 2 | LN 29 794 – 06 x 13 | E-9952 – 29/01/07 - Gerhard Turlach |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **RENEWAL PQ 149**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS Technologies
Barkby Road - Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN3613-050 | Report: N°156 for_SPS_ACP005<br>Form2– Issue 2_2012/07/09<br>Keith ALLEN, Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**OCTOBER 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 03/10/2012
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 149 partially including renewals from PQ 037**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
Barkby Road,
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN3613-050 | ESD9355, 12/03/2008, John R. D. Rudge, Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

04 April 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 148**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
Barkby Road,
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3685 | EN3686-070 by analogy to EN3687-070 approved on cert PQ053 | ESD9307, April 2007, M.Stock, Rolls-Royce. |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2010**

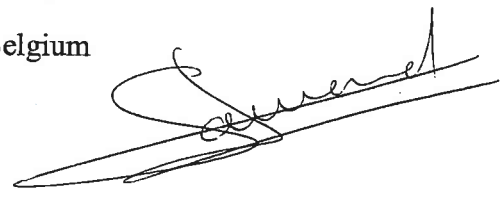
except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

17 December 2007

PLACE :
A :
ORT :

Brussels, Belgium



SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 147 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SEALTRON Inc
9705 Reading Road
Cincinnati, OHIO 45215
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-005 Class YE : see attachment,<br>EN2997-006 Class YE : see attachment,<br>EN2997-007 Class YE : see attachment. | Report: ACP005 Form 2 for_Sealtron – 2011/10/27<br>Christian Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

29 June 2012

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

Attachment to PQ 147

## 1. HERMETIC SQUARE FLANGE RECEPTACLE EN2997-005 Class YE

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997YE00803M* | A6703-08-03P*-SP-M136 |
| EN2997YE00898M* | A6703-08-98P*-SP-M136 |
| EN2997YE01002M* | A6703-10-02P*-SP-M136 |
| EN2997YE01005M* | A6703-10-05P*-SP-M136 |
| EN2997YE01006M* | A6703-10-06P*-SP-M136 |
| EN2997YE01203M* | A6703-12-03P*-SP-M136 |
| EN2997YE01212M* | A6703-12-12P*-SP-M136 |
| EN2997YE01404M* | A6703-14-04P*-SP-M136 |
| EN2997YE01407M* | A6703-14-07P*-SP-M136 |
| EN2997YE01412M* | A6703-14-12P*-SP-M136 |
| EN2997YE01415M* | A6703-14-15P*-SP-M136 |
| EN2997YE01610M* | A6703-16-10P*-SP-M136 |
| EN2997YE01624M* | A6703-16-24P*-SP-M136 |
| EN2997YE01806M* | A6703-18-06P*-SP-M136 |
| EN2997YE01808M* | A6703-18-08P*-SP-M136 |
| EN2997YE01814M* | A6703-18-14P*-SP-M136 |
| EN2997YE01831M* | A6703-18-31P*-SP-M136 |
| EN2997YE02016M* | A6703-20-16P*-SP-M136 |
| EN2997YE02025M* | A6703-20-25P*-SP-M136 |
| EN2997YE02028M* | A6703-20-28P*-SP-M136 |
| EN2997YE02039M* | A6703-20-39P*-SP-M136 |
| EN2997YE02041M* | A6703-20-41P*-SP-M136 |
| EN2997YE02212M* | A6703-22-12P*-SP-M136 |
| EN2997YE02219M* | A6703-22-19P*-SP-M136 |
| EN2997YE02232M* | A6703-22-32P*-SP-M136 |
| EN2997YE02239M* | A6703-22-39P*-SP-M136 |
| EN2997YE02255M* | A6703-22-55P*-SP-M136 |
| EN2997YE02430M* | A6703-24-30P*-SP-M136 |
| EN2997YE02443M* | A6703-24-43P*-SP-M136 |
| EN2997YE02449M* | A6703-24-49P*-SP-M136 |
| EN2997YE02457M* | A6703-24-57P*-SP-M136 |
| EN2997YE02461M* | A6703-24-61P*-SP-M136 |
| EN2997YE02842M* | A6703-28-42P*-SP-M136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ACD-CERT
Certified Aerospace Standard Products

Attachment to PQ 147 (continued)

## 2. HERMETIC JAM-NUT MOUNTED RECEPTACLE EN2997-006 Class YE

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997YE70803M* | A6705-08-03P*-SP-M136 |
| EN2997YE70898M* | A6705-08-98P*-SP-M136 |
| EN2997YE71002M* | A6705-10-02P*-SP-M136 |
| EN2997YE71005M* | A6705-10-05P*-SP-M136 |
| EN2997YE71006M* | A6705-10-06P*-SP-M136 |
| EN2997YE71203M* | A6705-12-03P*-SP-M136 |
| EN2997YE71212M* | A6705-12-12P*-SP-M136 |
| EN2997YE71404M* | A6705-14-04P*-SP-M136 |
| EN2997YE71407M* | A6705-14-07P*-SP-M136 |
| EN2997YE71412M* | A6705-14-12P*-SP-M136 |
| EN2997YE71415M* | A6705-14-15P*-SP-M136 |
| EN2997YE71610M* | A6705-16-10P*-SP-M136 |
| EN2997YE71624M* | A6705-16-24P*-SP-M136 |
| EN2997YE71806M* | A6705-18-06P*-SP-M136 |
| EN2997YE71808M* | A6705-18-08P*-SP-M136 |
| EN2997YE71814M* | A6705-18-14P*-SP-M136 |
| EN2997YE71831M* | A6705-18-31P*-SP-M136 |
| EN2997YE72016M* | A6705-20-16P*-SP-M136 |
| EN2997YE72025M* | A6705-20-25P*-SP-M136 |
| EN2997YE72028M* | A6705-20-28P*-SP-M136 |
| EN2997YE72039M* | A6705-20-39P*-SP-M136 |
| EN2997YE72041M* | A6705-20-41P*-SP-M136 |
| EN2997YE72212M* | A6705-22-12P*-SP-M136 |
| EN2997YE72219M* | A6705-22-19P*-SP-M136 |
| EN2997YE72232M* | A6705-22-32P*-SP-M136 |
| EN2997YE72239M* | A6705-22-39P*-SP-M136 |
| EN2997YE72255M* | A6705-22-55P*-SP-M136 |
| EN2997YE72430M* | A6705-24-30P*-SP-M136 |
| EN2997YE72443M* | A6705-24-43P*-SP-M136 |
| EN2997YE72449M* | A6705-24-49P*-SP-M136 |
| EN2997YE72457M* | A6705-24-57P*-SP-M136 |
| EN2997YE72461M* | A6705-24-61P*-SP-M136 |
| EN2997YE72842M* | A6705-28-42P*-SP-M136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

AD-CERT
Certified Aerospace Standard Products

## 3. HERMETIC RECEPTACLE WITH ROUND FLANGE EN2997-007 Class YE

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997YE10803M* | BL6702-08-03P*-SP-M136 |
| EN2997YE10898M* | BL6702-08-98P*-SP-M136 |
| EN2997YE11002M* | BL6702-10-02P*-SP-M136 |
| EN2997YE11005M* | BL6702-10-05P*-SP-M136 |
| EN2997YE11006M* | BL6702-10-06P*-SP-M136 |
| EN2997YE11203M* | BL6702-12-03P*-SP-M136 |
| EN2997YE11212M* | BL6702-12-12P*-SP-M136 |
| EN2997YE11404M* | BL6702-14-04P*-SP-M136 |
| EN2997YE11407M* | BL6702-14-07P*-SP-M136 |
| EN2997YE11412M* | BL6702-14-12P*-SP-M136 |
| EN2997YE11415M* | BL6702-14-15P*-SP-M136 |
| EN2997YE11610M* | BL6702-16-10P*-SP-M136 |
| EN2997YE11624M* | BL6702-16-24P*-SP-M136 |
| EN2997YE11806M* | BL6702-18-06P*-SP-M136 |
| EN2997YE11808M* | BL6702-18-08P*-SP-M136 |
| EN2997YE11814M* | BL6702-18-14P*-SP-M136 |
| EN2997YE11831M* | BL6702-18-31P*-SP-M136 |
| EN2997YE12016M* | BL6702-20-16P*-SP-M136 |
| EN2997YE12025M* | BL6702-20-25P*-SP-M136 |
| EN2997YE12028M* | BL6702-20-28P*-SP-M136 |
| EN2997YE12039M* | BL6702-20-39P*-SP-M136 |
| EN2997YE12041M* | BL6702-20-41P*-SP-M136 |
| EN2997YE12212M* | BL6702-22-12P*-SP-M136 |
| EN2997YE12219M* | BL6702-22-19P*-SP-M136 |
| EN2997YE12232M* | BL6702-22-32P*-SP-M136 |
| EN2997YE12239M* | BL6702-22-39P*-SP-M136 |
| EN2997YE12255M* | BL6702-22-55P*-SP-M136 |
| EN2997YE12430M* | BL6702-24-30P*-SP-M136 |
| EN2997YE12443M* | BL6702-24-43P*-SP-M136 |
| EN2997YE12449M* | BL6702-24-49P*-SP-M136 |
| EN2997YE12457M* | BL6702-24-57P*-SP-M136 |
| EN2997YE12461M* | BL6702-24-61P*-SP-M136 |
| EN2997YE12842M* | BL6702-28-42P*-SP-M136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

AD-CRT Certified Aerospace Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 147**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SEALTRON Inc
9705 Reading Road
Cincinnati, OHIO 45215
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See Attachment | EN2997-005 Class YE : see attachment,<br>EN2997-006 Class YE : see attachment,<br>EN2997-007 Class YE : see attachment. | QTR 637 05/09/2007<br>Louis Leblanc,<br>Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

10 November 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachment to PQ 147

## 1. HERMETIC SQUARE FLANGE RECEPTACLE EN2997-005 Class YE

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997YE00803M* | A6703-08-03P*-SP-M136 |
| EN2997YE00898M* | A6703-08-98P*-SP-M136 |
| EN2997YE01002M* | A6703-10-02P*-SP-M136 |
| EN2997YE01005M* | A6703-10-05P*-SP-M136 |
| EN2997YE01006M* | A6703-10-06P*-SP-M136 |
| EN2997YE01203M* | A6703-12-03P*-SP-M136 |
| EN2997YE01212M* | A6703-12-12P*-SP-M136 |
| EN2997YE01404M* | A6703-14-04P*-SP-M136 |
| EN2997YE01407M* | A6703-14-07P*-SP-M136 |
| EN2997YE01412M* | A6703-14-12P*-SP-M136 |
| EN2997YE01415M* | A6703-14-15P*-SP-M136 |
| EN2997YE01610M* | A6703-16-10P*-SP-M136 |
| EN2997YE01624M* | A6703-16-24P*-SP-M136 |
| EN2997YE01806M* | A6703-18-06P*-SP-M136 |
| EN2997YE01808M* | A6703-18-08P*-SP-M136 |
| EN2997YE01814M* | A6703-18-14P*-SP-M136 |
| EN2997YE01831M* | A6703-18-31P*-SP-M136 |
| EN2997YE02016M* | A6703-20-16P*-SP-M136 |
| EN2997YE02025M* | A6703-20-25P*-SP-M136 |
| EN2997YE02028M* | A6703-20-28P*-SP-M136 |
| EN2997YE02039M* | A6703-20-39P*-SP-M136 |
| EN2997YE02041M* | A6703-20-41P*-SP-M136 |
| EN2997YE02212M* | A6703-22-12P*-SP-M136 |
| EN2997YE02219M* | A6703-22-19P*-SP-M136 |
| EN2997YE02232M* | A6703-22-32P*-SP-M136 |
| EN2997YE02239M* | A6703-22-39P*-SP-M136 |
| EN2997YE02255M* | A6703-22-55P*-SP-M136 |
| EN2997YE02430M* | A6703-24-30P*-SP-M136 |
| EN2997YE02443M* | A6703-24-43P*-SP-M136 |
| EN2997YE02449M* | A6703-24-49P*-SP-M136 |
| EN2997YE02457M* | A6703-24-57P*-SP-M136 |
| EN2997YE02461M* | A6703-24-61P*-SP-M136 |
| EN2997YE02842M* | A6703-28-42P*-SP-M136 |

* = N, 6, 7, 8 or 9 for size 8

* = N, 6, 7, 8, 9 or Y for other sizes

## 2. HERMETIC JAM-NUT MOUNTED RECEPTACLE EN2997-006 Class YE

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997YE70803M* | A6705-08-03P*-SP-M136 |
| EN2997YE70898M* | A6705-08-98P*-SP-M136 |
| EN2997YE71002M* | A6705-10-02P*-SP-M136 |
| EN2997YE71005M* | A6705-10-05P*-SP-M136 |
| EN2997YE71006M* | A6705-10-06P*-SP-M136 |
| EN2997YE71203M* | A6705-12-03P*-SP-M136 |
| EN2997YE71212M* | A6705-12-12P*-SP-M136 |
| EN2997YE71404M* | A6705-14-04P*-SP-M136 |
| EN2997YE71407M* | A6705-14-07P*-SP-M136 |
| EN2997YE71412M* | A6705-14-12P*-SP-M136 |
| EN2997YE71415M* | A6705-14-15P*-SP-M136 |
| EN2997YE71610M* | A6705-16-10P*-SP-M136 |
| EN2997YE71624M* | A6705-16-24P*-SP-M136 |
| EN2997YE71806M* | A6705-18-06P*-SP-M136 |
| EN2997YE71808M* | A6705-18-08P*-SP-M136 |
| EN2997YE71814M* | A6705-18-14P*-SP-M136 |
| EN2997YE71831M* | A6705-18-31P*-SP-M136 |
| EN2997YE72016M* | A6705-20-16P*-SP-M136 |
| EN2997YE72025M* | A6705-20-25P*-SP-M136 |
| EN2997YE72028M* | A6705-20-28P*-SP-M136 |
| EN2997YE72039M* | A6705-20-39P*-SP-M136 |
| EN2997YE72041M* | A6705-20-41P*-SP-M136 |
| EN2997YE72212M* | A6705-22-12P*-SP-M136 |
| EN2997YE72219M* | A6705-22-19P*-SP-M136 |
| EN2997YE72232M* | A6705-22-32P*-SP-M136 |
| EN2997YE72239M* | A6705-22-39P*-SP-M136 |
| EN2997YE72255M* | A6705-22-55P*-SP-M136 |
| EN2997YE72430M* | A6705-24-30P*-SP-M136 |
| EN2997YE72443M* | A6705-24-43P*-SP-M136 |
| EN2997YE72449M* | A6705-24-49P*-SP-M136 |
| EN2997YE72457M* | A6705-24-57P*-SP-M136 |
| EN2997YE72461M* | A6705-24-61P*-SP-M136 |
| EN2997YE72842M* | A6705-28-42P*-SP-M136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 3. HERMETIC RECEPTACLE WITH ROUND FLANGE EN2997-007 Class YE

| EN2997 | SEALTRON P/N |
|---|---|
| EN2997YE10803M* | BL6702-08-03P*-SP-M136 |
| EN2997YE10898M* | BL6702-08-98P*-SP-M136 |
| EN2997YE11002M* | BL6702-10-02P*-SP-M136 |
| EN2997YE11005M* | BL6702-10-05P*-SP-M136 |
| EN2997YE11006M* | BL6702-10-06P*-SP-M136 |
| EN2997YE11203M* | BL6702-12-03P*-SP-M136 |
| EN2997YE11212M* | BL6702-12-12P*-SP-M136 |
| EN2997YE11404M* | BL6702-14-04P*-SP-M136 |
| EN2997YE11407M* | BL6702-14-07P*-SP-M136 |
| EN2997YE11412M* | BL6702-14-12P*-SP-M136 |
| EN2997YE11415M* | BL6702-14-15P*-SP-M136 |
| EN2997YE11610M* | BL6702-16-10P*-SP-M136 |
| EN2997YE11624M* | BL6702-16-24P*-SP-M136 |
| EN2997YE11806M* | BL6702-18-06P*-SP-M136 |
| EN2997YE11808M* | BL6702-18-08P*-SP-M136 |
| EN2997YE11814M* | BL6702-18-14P*-SP-M136 |
| EN2997YE11831M* | BL6702-18-31P*-SP-M136 |
| EN2997YE12016M* | BL6702-20-16P*-SP-M136 |
| EN2997YE12025M* | BL6702-20-25P*-SP-M136 |
| EN2997YE12028M* | BL6702-20-28P*-SP-M136 |
| EN2997YE12039M* | BL6702-20-39P*-SP-M136 |
| EN2997YE12041M* | BL6702-20-41P*-SP-M136 |
| EN2997YE12212M* | BL6702-22-12P*-SP-M136 |
| EN2997YE12219M* | BL6702-22-19P*-SP-M136 |
| EN2997YE12232M* | BL6702-22-32P*-SP-M136 |
| EN2997YE12239M* | BL6702-22-39P*-SP-M136 |
| EN2997YE12255M* | BL6702-22-55P*-SP-M136 |
| EN2997YE12430M* | BL6702-24-30P*-SP-M136 |
| EN2997YE12443M* | BL6702-24-43P*-SP-M136 |
| EN2997YE12449M* | BL6702-24-49P*-SP-M136 |
| EN2997YE12457M* | BL6702-24-57P*-SP-M136 |
| EN2997YE12461M* | BL6702-24-61P*-SP-M136 |
| EN2997YE12842M* | BL6702-28-42P*-SP-M136 |

* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 146 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI BLANC AERO INDUSTRIES
Rue Jean Vaurs
12200 Villefranche de Rouergue
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN 3752 | EN 3720-050<br>EN 3720-060 | EN3720-050 (PQ 146 Renewal) and -060_MBR reports_ ACP005 Form2 - 2011/07/27<br>Mr Michel CAPBLANCQ, TURBOMECA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JANUARY 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/12/2011

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 146**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO Industries
Rue Jean Vaurs
12200 VILLEFRANCHE de ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3752 | EN3720-050 | GP/DJ N°20392<br>12/01/2007 -<br>Francis Guerrier<br>Turbomeca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 September 2007

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 145**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
CONESYS EUROPE
20 Avenue Jean Monnet
31770 Colomiers
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-003, -004, -008<br>Class K, KE, S, SE | EDDLE 02/2009<br>15 December 2008<br>Louis LEBLANC - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
17 April 2009

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



Attachment to PQ 145

## 1. SQUARE FLANGE RECEPTACLE EN2997-003 Class S

| EN2997 | CONESYS P/N |
|---|---|
| EN2997-S008-03x* | 8000S 0 08 03x* |
| EN2997-S008-98x* | 8000S 0 08 98x* |
| EN2997-S010-02x* | 8000S 0 10 02x* |
| EN2997-S010-05x* | 8000S 0 10 05x* |
| EN2997-S010-06x* | 8000S 0 10 06x* |
| EN2997-S012-03x* | 8000S 0 12 03x* |
| EN2997-S012-12x* | 8000S 0 12 12x* |
| EN2997-S014-04x* | 8000S 0 14 04x* |
| EN2997-S014-07x* | 8000S 0 14 07x* |
| EN2997-S014-12x* | 8000S 0 14 12x* |
| EN2997-S014-15x* | 8000S 0 14 15x* |
| EN2997-S016-10x* | 8000S 0 16 10x* |
| EN2997-S016-24x* | 8000S 0 16 24x* |
| EN2997-S018-08x* | 8000S 0 18 08x* |
| EN2997-S018-14x* | 8000S 0 18 14x* |
| EN2997-S018-31x* | 8000S 0 18 31x* |
| EN2997-S020-16x* | 8000S 0 20 16x* |
| EN2997-S020-25x* | 8000S 0 20 25x* |
| EN2997-S020-28x* | 8000S 0 20 28x* |
| EN2997-S020-39x* | 8000S 0 20 39x* |
| EN2997-S020-41x* | 8000S 0 20 41x* |
| EN2997-S022-12x* | 8000S 0 22 12x* |
| EN2997-S022-19x* | 8000S 0 22 19x* |
| EN2997-S022-32x* | 8000S 0 22 32x* |
| EN2997-S022-39x* | 8000S 0 22 39x* |
| EN2997-S022-55x* | 8000S 0 22 55x* |
| EN2997-S024-30x* | 8000S 0 24 30x* |
| EN2997-S024-43x* | 8000S 0 24 43x* |
| EN2997-S024-57x* | 8000S 0 24 57x* |
| EN2997-S024-61x* | 8000S 0 24 61x* |
| EN2997-S028-42x* | 8000S 0 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 2. SQUARE FLANGE RECEPTACLE EN2997-003 Class SE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 SE008-03x* | 8000SE 0 08 03x* |
| EN2997 SE008-98x* | 8000SE 0 08 98x* |
| EN2997 SE010-02x* | 8000SE 0 10 02x* |
| EN2997 SE010-05x* | 8000SE 0 10 05x* |
| EN2997 SE010-06x* | 8000SE 0 10 06x* |
| EN2997 SE012-03x* | 8000SE 0 12 03x* |
| EN2997 SE012-12x* | 8000SE 0 12 12x* |
| EN2997 SE014-04x* | 8000SE 0 14 04x* |
| EN2997 SE014-07x* | 8000SE 0 14 07x* |
| EN2997 SE014-12x* | 8000SE 0 14 12x* |
| EN2997 SE014-15x* | 8000SE 0 14 15x* |
| EN2997 SE016-10x* | 8000SE 0 16 10x* |
| EN2997 SE016-24x* | 8000SE 0 16 24x* |
| EN2997 SE018-08x* | 8000SE 0 18 08x* |
| EN2997 SE018-14x* | 8000SE 0 18 14x* |
| EN2997 SE018-31x* | 8000SE 0 18 31x* |
| EN2997 SE020-16x* | 8000SE 0 20 16x* |
| EN2997 SE020-25x* | 8000SE 0 20 25x* |
| EN2997 SE020-28x* | 8000SE 0 20 28x* |
| EN2997 SE020-39x* | 8000SE 0 20 39x* |
| EN2997 SE020-41x* | 8000SE 0 20 41x* |
| EN2997 SE022-12x* | 8000SE 0 22 12x* |
| EN2997 SE022-19x* | 8000SE 0 22 19x* |
| EN2997 SE022-32x* | 8000SE 0 22 32x* |
| EN2997 SE022-39x* | 8000SE 0 22 39x* |
| EN2997 SE022-55x* | 8000SE 0 22 55x* |
| EN2997 SE024-30x* | 8000SE 0 24 30x* |
| EN2997 SE024-43x* | 8000SE 0 24 43x* |
| EN2997 SE024-57x* | 8000SE 0 24 57x* |
| EN2997 SE024-61x* | 8000SE 0 24 61x* |
| EN2997 SE028-42x* | 8000SE 0 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 3. JAM NUT RECEPTACLE EN2997-004 Class S

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 S708-03x* | 8000S 7 08 03x* |
| EN2997 S708-98x* | 8000S 7 08 98x* |
| EN2997 S710-02x* | 8000S 7 10 02x* |
| EN2997 S710-05x* | 8000S 7 10 05x* |
| EN2997 S710-06x* | 8000S 7 10 06x* |
| EN2997 S712-03x* | 8000S 7 12 03x* |
| EN2997 S712-12x* | 8000S 7 12 12x* |
| EN2997 S714-04x* | 8000S 7 14 04x* |
| EN2997 S714-07x* | 8000S 7 14 07x* |
| EN2997 S714-12x* | 8000S 7 14 12x* |
| EN2997 S714-15x* | 8000S 7 14 15x* |
| EN2997 S716-10x* | 8000S 7 16 10x* |
| EN2997 S716-24x* | 8000S 7 16 24x* |
| EN2997 S718-08x* | 8000S 7 18 08x* |
| EN2997 S718-14x* | 8000S 7 18 14x* |
| EN2997 S718-31x* | 8000S 7 18 31x* |
| EN2997 S720-16x* | 8000S 7 20 16x* |
| EN2997 S720-25x* | 8000S 7 20 25x* |
| EN2997 S720-28x* | 8000S 7 20 28x* |
| EN2997 S720-39x* | 8000S 7 20 39x* |
| EN2997 S720-41x* | 8000S 7 20 41x* |
| EN2997 S722-12x* | 8000S 7 22 12x* |
| EN2997 S722-19x* | 8000S 7 22 19x* |
| EN2997 S722-32x* | 8000S 7 22 32x* |
| EN2997 S722-39x* | 8000S 7 22 39x* |
| EN2997 S722-55x* | 8000S 7 22 55x* |
| EN2997 S724-30x* | 8000S 7 24 30x* |
| EN2997 S724-43x* | 8000S 7 24 43x* |
| EN2997 S724-57x* | 8000S 7 24 57x* |
| EN2997 S724-61x* | 8000S 7 24 61x* |
| EN2997 S728-42x* | 8000S 7 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 4. JAM NUT RECEPTACLE EN2997-004 Class SE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 SE708-03x* | 8000SE 7 08 03x* |
| EN2997 SE708-98x* | 8000SE 7 08 98x* |
| EN2997 SE710-02x* | 8000SE 7 10 02x* |
| EN2997 SE710-05x* | 8000SE 7 10 05x* |
| EN2997 SE710-06x* | 8000SE 7 10 06x* |
| EN2997 SE712-03x* | 8000SE 7 12 03x* |
| EN2997 SE712-12x* | 8000SE 7 12 12x* |
| EN2997 SE714-04x* | 8000SE 7 14 04x* |
| EN2997 SE714-07x* | 8000SE 7 14 07x* |
| EN2997 SE714-12x* | 8000SE 7 14 12x* |
| EN2997 SE714-15x* | 8000SE 7 14 15x* |
| EN2997 SE716-10x* | 8000SE 7 16 10x* |
| EN2997 SE716-24x* | 8000SE 7 16 24x* |
| EN2997 SE718-08x* | 8000SE 7 18 08x* |
| EN2997 SE718-14x* | 8000SE 7 18 14x* |
| EN2997 SE718-31x* | 8000SE 7 18 31x* |
| EN2997 SE720-16x* | 8000SE 7 20 16x* |
| EN2997 SE720-25x* | 8000SE 7 20 25x* |
| EN2997 SE720-28x* | 8000SE 7 20 28x* |
| EN2997 SE720-39x* | 8000SE 7 20 39x* |
| EN2997 SE720-41x* | 8000SE 7 20 41x* |
| EN2997 SE722-12x* | 8000SE 7 22 12x* |
| EN2997 SE722-19x* | 8000SE 7 22 19x* |
| EN2997 SE722-32x* | 8000SE 7 22 32x* |
| EN2997 SE722-39x* | 8000SE 7 22 39x* |
| EN2997 SE722-55x* | 8000SE 7 22 55x* |
| EN2997 SE724-30x* | 8000SE 7 24 30x* |
| EN2997 SE724-43x* | 8000SE 7 24 43x* |
| EN2997 SE724-57x* | 8000SE 7 24 57x* |
| EN2997 SE724-61x* | 8000SE 7 24 61x* |
| EN2997 SE728-42x* | 8000SE 7 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 5. PLUGS EN2997-008 Class S

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 S608-03x* | 8000S 6 08 03x* |
| EN2997 S608-98x* | 8000S 6 08 98x* |
| EN2997 S610-02x* | 8000S 6 10 02x* |
| EN2997 S610-05x* | 8000S 6 10 05x* |
| EN2997 S610-06x* | 8000S 6 10 06x* |
| EN2997 S612-03x* | 8000S 6 12 03x* |
| EN2997 S612-12x* | 8000S 6 12 12x* |
| EN2997 S614-04x* | 8000S 6 14 04x* |
| EN2997 S614-07x* | 8000S 6 14 07x* |
| EN2997 S614-12x* | 8000S 6 14 12x* |
| EN2997 S614-15x* | 8000S 6 14 15x* |
| EN2997 S616-10x* | 8000S 6 16 10x* |
| EN2997 S616-24x* | 8000S 6 16 24x* |
| EN2997 S618-08x* | 8000S 6 18 08x* |
| EN2997 S618-14x* | 8000S 6 18 14x* |
| EN2997 S618-31x* | 8000S 6 18 31x* |
| EN2997 S620-16x* | 8000S 6 20 16x* |
| EN2997 S620-25x* | 8000S 6 20 25x* |
| EN2997 S620-28x* | 8000S 6 20 28x* |
| EN2997 S620-39x* | 8000S 6 20 39x* |
| EN2997 S620-41x* | 8000S 6 20 41x* |
| EN2997 S622-12x* | 8000S 6 22 12x* |
| EN2997 S622-19x* | 8000S 6 22 19x* |
| EN2997 S622-32x* | 8000S 6 22 32x* |
| EN2997 S622-39x* | 8000S 6 22 39x* |
| EN2997 S622-55x* | 8000S 6 22 55x* |
| EN2997 S624-30x* | 8000S 6 24 30x* |
| EN2997 S624-43x* | 8000S 6 24 43x* |
| EN2997 S624-57x* | 8000S 6 24 57x* |
| EN2997 S624-61x* | 8000S 6 24 61x* |
| EN2997 S628-42x* | 8000S 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 6. PLUGS EN2997-008 Class SE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 SE608-03x* | 8000SE 6 08 03x* |
| EN2997 SE608-98x* | 8000SE 6 08 98x* |
| EN2997 SE610-02x* | 8000SE 6 10 02x* |
| EN2997 SE610-05x* | 8000SE 6 10 05x* |
| EN2997 SE610-06x* | 8000SE 6 10 06x* |
| EN2997 SE612-03x* | 8000SE 6 12 03x* |
| EN2997 SE612-12x* | 8000SE 6 12 12x* |
| EN2997 SE614-04x* | 8000SE 6 14 04x* |
| EN2997 SE614-07x* | 8000SE 6 14 07x* |
| EN2997 SE614-12x* | 8000SE 6 14 12x* |
| EN2997 SE614-15x* | 8000SE 6 14 15x* |
| EN2997 SE616-10x* | 8000SE 6 16 10x* |
| EN2997 SE616-24x* | 8000SE 6 16 24x* |
| EN2997 SE618-08x* | 8000SE 6 18 08x* |
| EN2997 SE618-14x* | 8000SE 6 18 14x* |
| EN2997 SE618-31x* | 8000SE 6 18 31x* |
| EN2997 SE620-16x* | 8000SE 6 20 16x* |
| EN2997 SE620-25x* | 8000SE 6 20 25x* |
| EN2997 SE620-28x* | 8000SE 6 20 28x* |
| EN2997 SE620-39x* | 8000SE 6 20 39x* |
| EN2997 SE620-41x* | 8000SE 6 20 41x* |
| EN2997 SE622-12x* | 8000SE 6 22 12x* |
| EN2997 SE622-19x* | 8000SE 6 22 19x* |
| EN2997 SE622-32x* | 8000SE 6 22 32x* |
| EN2997 SE622-39x* | 8000SE 6 22 39x* |
| EN2997 SE622-55x* | 8000SE 6 22 55x* |
| EN2997 SE624-30x* | 8000SE 6 24 30x* |
| EN2997 SE624-43x* | 8000SE 6 24 43x* |
| EN2997 SE624-57x* | 8000SE 6 24 57x* |
| EN2997 SE624-61x* | 8000SE 6 24 61x* |
| EN2997 SE628-42x* | 8000SE 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 7. PLUGS EN2997-008 Class K

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 K608-03x* | 8000K 6 08 03x* |
| EN2997 K608-98x* | 8000K 6 08 98x* |
| EN2997 K610-02x* | 8000K 6 10 02x* |
| EN2997 K610-05x* | 8000K 6 10 05x* |
| EN2997 K610-06x* | 8000K 6 10 06x* |
| EN2997 K612-03x* | 8000K 6 12 03x* |
| EN2997 K612-12x* | 8000K 6 12 12x* |
| EN2997 K614-04x* | 8000K 6 14 04x* |
| EN2997 K614-07x* | 8000K 6 14 07x* |
| EN2997 K614-12x* | 8000K 6 14 12x* |
| EN2997 K614-15x* | 8000K 6 14 15x* |
| EN2997 K616-10x* | 8000K 6 16 10x* |
| EN2997 K616-24x* | 8000K 6 16 24x* |
| EN2997 K618-08x* | 8000K 6 18 08x* |
| EN2997 K618-14x* | 8000K 6 18 14x* |
| EN2997 K618-31x* | 8000K 6 18 31x* |
| EN2997 K620-16x* | 8000K 6 20 16x* |
| EN2997 K620-25x* | 8000K 6 20 25x* |
| EN2997 K620-28x* | 8000K 6 20 28x* |
| EN2997 K620-39x* | 8000K 6 20 39x* |
| EN2997 K620-41x* | 8000K 6 20 41x* |
| EN2997 K622-12x* | 8000K 6 22 12x* |
| EN2997 K622-19x* | 8000K 6 22 19x* |
| EN2997 K622-32x* | 8000K 6 22 32x* |
| EN2997 K622-39x* | 8000K 6 22 39x* |
| EN2997 K622-55x* | 8000K 6 22 55x* |
| EN2997 K624-30x* | 8000K 6 24 30x* |
| EN2997 K624-43x* | 8000K 6 24 43x* |
| EN2997 K624-57x* | 8000K 6 24 57x* |
| EN2997 K624-61x* | 8000K 6 24 61x* |
| EN2997 K628-42x* | 8000K 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 8. PLUGS EN2997-008 Class KE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 KE608-03x* | 8000KE 6 08 03x* |
| EN2997 KE608-98x* | 8000KE 6 08 98x* |
| EN2997 KE610-02x* | 8000KE 6 10 02x* |
| EN2997 KE610-05x* | 8000KE 6 10 05x* |
| EN2997 KE610-06x* | 8000KE 6 10 06x* |
| EN2997 KE612-03x* | 8000KE 6 12 03x* |
| EN2997 KE612-12x* | 8000KE 6 12 12x* |
| EN2997 KE614-04x* | 8000KE 6 14 04x* |
| EN2997 KE614-07x* | 8000KE 6 14 07x* |
| EN2997 KE614-12x* | 8000KE 6 14 12x* |
| EN2997 KE614-15x* | 8000KE 6 14 15x* |
| EN2997 KE616-10x* | 8000KE 6 16 10x* |
| EN2997 KE616-24x* | 8000KE 6 16 24x* |
| EN2997 KE618-08x* | 8000KE 6 18 08x* |
| EN2997 KE618-14x* | 8000KE 6 18 14x* |
| EN2997 KE618-31x* | 8000KE 6 18 31x* |
| EN2997 KE620-16x* | 8000KE 6 20 16x* |
| EN2997 KE620-25x* | 8000KE 6 20 25x* |
| EN2997 KE620-28x* | 8000KE 6 20 28x* |
| EN2997 KE620-39x* | 8000KE 6 20 39x* |
| EN2997 KE620-41x* | 8000KE 6 20 41x* |
| EN2997 KE622-12x* | 8000KE 6 22 12x* |
| EN2997 KE622-19x* | 8000KE 6 22 19x* |
| EN2997 KE622-32x* | 8000KE 6 22 32x* |
| EN2997 KE622-39x* | 8000KE 6 22 39x* |
| EN2997 KE622-55x* | 8000KE 6 22 55x* |
| EN2997 KE624-30x* | 8000KE 6 24 30x* |
| EN2997 KE624-43x* | 8000KE 6 24 43x* |
| EN2997 KE624-57x* | 8000KE 6 24 57x* |
| EN2997 KE624-61x* | 8000KE 6 24 61x* |
| EN2997 KE628-42x* | 8000KE 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 145** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | CONESYS EUROPE<br>20 Avenue Jean Monnet<br>31770 Colomiers<br>FRANCE |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | as above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | EN2997-x Class S and Class SE :<br>See attachment | See attachment |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 11 September 2007
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachment to PQ 145

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003 **Square flange receptacle – Class S** | EN2997-0S08-03x*<br>EN2997-0S08-98x*<br>EN2997-0S10-02x*<br>EN2997-0S10-05x*<br>EN2997-0S10-06x*<br>EN2997-0S12-03x*<br>EN2997-0S12-12x*<br>EN2997-0S14-04x*<br>EN2997-0S14-07x*<br>EN2997-0S14-12x*<br>EN2997-0S14-15x*<br>EN2997-0S16-10x*<br>EN2997-0S16-24x*<br>EN2997-0S18-08x*<br>EN2997-0S18-14x*<br>EN2997-0S18-31x*<br>EN2997-0S20-16x*<br>EN2997-0S20-25x*<br>EN2997-0S20-28x*<br>EN2997-0S20-39x*<br>EN2997-0S20-41x*<br>EN2997-0S22-12x*<br>EN2997-0S22-19x*<br>EN2997-0S22-32x*<br>EN2997-0S22-39x*<br>EN2997-0S22-55x*<br>EN2997-0S24-30x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003 **Square flange receptacle – Class SE** | EN2997 0SE08-03x*<br>EN2997 0SE08-98x*<br>EN2997 0SE10-02x*<br>EN2997 0SE10-05x*<br>EN2997 0SE10-06x*<br>EN2997 0SE12-03x*<br>EN2997 0SE12-12x*<br>EN2997 0SE14-04x*<br>EN2997 0SE14-07x*<br>EN2997 0SE14-12x*<br>EN2997 0SE14-15x*<br>EN2997 0SE16-10x*<br>EN2997 0SE16-24x*<br>EN2997 0SE18-08x*<br>EN2997 0SE18-14x*<br>EN2997 0SE18-31x*<br>EN2997 0SE20-16x*<br>EN2997 0SE20-25x*<br>EN2997 0SE20-28x*<br>EN2997 0SE20-39x*<br>EN2997 0SE20-41x*<br>EN2997 0SE22-12x*<br>EN2997 0SE22-19x*<br>EN2997 0SE22-32x*<br>EN2997 0SE22-39x*<br>EN2997 0SE22-55x*<br>EN2997 0SE24-30x*<br>EN2997 0SE24-43x*<br>EN2997 0SE24-57x*<br>EN2997 0SE24-61x*<br>EN2997 0SE28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

Attachment to PQ 145 (continued)

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-004 **Jam-nut mounted receptacle – Class S** | EN2997 7S08-03x*<br>EN2997 7S08-98x*<br>EN2997 7S10-02x*<br>EN2997 7S10-05x*<br>EN2997 7S10-06x*<br>EN2997 7S12-03x*<br>EN2997 7S12-12x*<br>EN2997 7S14-04x*<br>EN2997 7S14-07x*<br>EN2997 7S14-12x*<br>EN2997 7S14-15x*<br>EN2997 7S16-10x*<br>EN2997 7S16-24x*<br>EN2997 7S18-08x*<br>EN2997 7S18-14x*<br>EN2997 7S18-31x*<br>EN2997 7S20-16x*<br>EN2997 7S20-25x*<br>EN2997 7S20-28x*<br>EN2997 7S20-39x*<br>EN2997 7S20-41x*<br>EN2997 7S22-12x*<br>EN2997 7S22-19x*<br>EN2997 7S22-32x*<br>EN2997 7S22-39x*<br>EN2997 7S22-55x*<br>EN2997 7S24-30x*<br>EN2997 7S24-43x*<br>EN2997 7S24-57x*<br>EN2997 7S24-61x*<br>EN2997 7S28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-004 **Jam-nut mounted receptacle – Class SE** | EN2997 7SE08-03x*<br>EN2997 7SE08-98x*<br>EN2997 7SE10-02x*<br>EN2997 7SE10-05x*<br>EN2997 7SE10-06x*<br>EN2997 7SE12-03x*<br>EN2997 7SE12-12x*<br>EN2997 7SE14-04x*<br>EN2997 7SE14-07x*<br>EN2997 7SE14-12x*<br>EN2997 7SE14-15x*<br>EN2997 7SE16-10x*<br>EN2997 7SE16-24x*<br>EN2997 7SE18-08x*<br>EN2997 7SE18-14x*<br>EN2997 7SE18-31x*<br>EN2997 7SE20-16x*<br>EN2997 7SE20-25x*<br>EN2997 7SE20-28x*<br>EN2997 7SE20-39x*<br>EN2997 7SE20-41x*<br>EN2997 7SE22-12x*<br>EN2997 7SE22-19x*<br>EN2997 7SE22-32x*<br>EN2997 7SE22-39x*<br>EN2997 7SE22-55x*<br>EN2997 7SE24-30x*<br>EN2997 7SE24-43x*<br>EN2997 7SE24-57x*<br>EN2997 7SE24-61x*<br>EN2997 7SE28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-008 **Plugs – Class S** | EN2997 6S08-03x*<br>EN2997 6S08-98x*<br>EN2997 6S10-02x*<br>EN2997 6S10-05x*<br>EN2997 6S10-06x*<br>EN2997 6S12-03x*<br>EN2997 6S12-12x*<br>EN2997 6S14-04x*<br>EN2997 6S14-07x*<br>EN2997 6S14-12x*<br>EN2997 6S14-15x*<br>EN2997 6S16-10x*<br>EN2997 6S16-24x*<br>EN2997 6S18-08x*<br>EN2997 6S18-14x*<br>EN2997 6S18-31x*<br>EN2997 6S20-16x*<br>EN2997 6S20-25x*<br>EN2997 6S20-28x*<br>EN2997 6S20-39x*<br>EN2997 6S20-41x*<br>EN2997 6S22-12x*<br>EN2997 6S22-19x*<br>EN2997 6S22-32x*<br>EN2997 6S22-39x*<br>EN2997 6S22-55x*<br>EN2997 6S24-30x*<br>EN2997 6S24-43x*<br>EN2997 6S24-57x*<br>EN2997 6S24-61x*<br>EN2997 6S28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

Attachment to PQ 145 (concluded)

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-008 **Plugs – Class SE** | EN2997 6SE08-03x*<br>EN2997 6SE08-98x*<br>EN2997 6SE10-02x*<br>EN2997 6SE10-05x*<br>EN2997 6SE10-06x*<br>EN2997 6SE12-03x*<br>EN2997 6SE12-12x*<br>EN2997 6SE14-04x*<br>EN2997 6SE14-07x*<br>EN2997 6SE14-12x*<br>EN2997 6SE14-15x*<br>EN2997 6SE16-10x*<br>EN2997 6SE16-24x*<br>EN2997 6SE18-08x*<br>EN2997 6SE18-14x*<br>EN2997 6SE18-31x*<br>EN2997 6SE20-16x*<br>EN2997 6SE20-25x*<br>EN2997 6SE20-28x*<br>EN2997 6SE20-39x*<br>EN2997 6SE20-41x*<br>EN2997 6SE22-12x*<br>EN2997 6SE22-19x*<br>EN2997 6SE22-32x*<br>EN2997 6SE22-39x*<br>EN2997 6SE22-55x*<br>EN2997 6SE24-30x*<br>EN2997 6SE24-43x*<br>EN2997 6SE24-57x*<br>EN2997 6SE24-61x*<br>EN2997 6SE28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 144**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
CONESYS
1631 East St Andrew Place
Santa Anna
CA 92705 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2977-001 | EN2997-003, -004, -008<br>Class K, KE, S, SE | EDDLE 02/2009<br>15 December 2008<br>Louis LEBLANC - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
17 April 2009

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



## 1. RECEPTACLE EN2997-003 Class S

| EN2997 | CONESYS P/N |
|---|---|
| EN2997- S008-03x* | 8000S 0 08 03x* |
| EN2997-S008-98x* | 8000S 0 08 98x* |
| EN2997-S010-02x* | 8000S 0 10 02x* |
| EN2997-S010-05x* | 8000S 0 10 05x* |
| EN2997-S010-06x* | 8000S 0 10 06x* |
| EN2997-S012-03x* | 8000S 0 12 03x* |
| EN2997-S012-12x* | 8000S 0 12 12x* |
| EN2997-S014-04x* | 8000S 0 14 04x* |
| EN2997-S014-07x* | 8000S 0 14 07x* |
| EN2997-S014-12x* | 8000S 0 14 12x* |
| EN2997-S014-15x* | 8000S 0 14 15x* |
| EN2997-S016-10x* | 8000S 0 16 10x* |
| EN2997-S016-24x* | 8000S 0 16 24x* |
| EN2997-S018-08x* | 8000S 0 18 08x* |
| EN2997-S018-14x* | 8000S 0 18 14x* |
| EN2997-S018-31x* | 8000S 0 18 31x* |
| EN2997-S020-16x* | 8000S 0 20 16x* |
| EN2997-S020-25x* | 8000S 0 20 25x* |
| EN2997-S020-28x* | 8000S 0 20 28x* |
| EN2997-S020-39x* | 8000S 0 20 39x* |
| EN2997-S020-41x* | 8000S 0 20 41x* |
| EN2997-S022-12x* | 8000S 0 22 12x* |
| EN2997-S022-19x* | 8000S 0 22 19x* |
| EN2997-S022-32x* | 8000S 0 22 32x* |
| EN2997-S022-39x* | 8000S 0 22 39x* |
| EN2997-S022-55x* | 8000S 0 22 55x* |
| EN2997-S024-30x* | 8000S 0 24 30x* |
| EN2997-S024-43x* | 8000S 0 24 43x* |
| EN2997-S024-57x* | 8000S 0 24 57x* |
| EN2997-S024-61x* | 8000S 0 24 61x* |
| EN2997-S028-42x* | 8000S 0 28 42x* |
| | |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 2. RECEPTACLE EN2997-003 Class SE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 SE008-03x* | 8000SE 0 08 03x* |
| EN2997 SE008-98x* | 8000SE 0 08 98x* |
| EN2997 SE010-02x* | 8000SE 0 10 02x* |
| EN2997 SE010-05x* | 8000SE 0 10 05x* |
| EN2997 SE010-06x* | 8000SE 0 10 06x* |
| EN2997 SE012-03x* | 8000SE 0 12 03x* |
| EN2997 SE012-12x* | 8000SE 0 12 12x* |
| EN2997 SE014-04x* | 8000SE 0 14 04x* |
| EN2997 SE014-07x* | 8000SE 0 14 07x* |
| EN2997 SE014-12x* | 8000SE 0 14 12x* |
| EN2997 SE014-15x* | 8000SE 0 14 15x* |
| EN2997 SE016-10x* | 8000SE 0 16 10x* |
| EN2997 SE016-24x* | 8000SE 0 16 24x* |
| EN2997 SE018-08x* | 8000SE 0 18 08x* |
| EN2997 SE018-14x* | 8000SE 0 18 14x* |
| EN2997 SE018-31x* | 8000SE 0 18 31x* |
| EN2997 SE020-16x* | 8000SE 0 20 16x* |
| EN2997 SE020-25x* | 8000SE 0 20 25x* |
| EN2997 SE020-28x* | 8000SE 0 20 28x* |
| EN2997 SE020-39x* | 8000SE 0 20 39x* |
| EN2997 SE020-41x* | 8000SE 0 20 41x* |
| EN2997 SE022-12x* | 8000SE 0 22 12x* |
| EN2997 SE022-19x* | 8000SE 0 22 19x* |
| EN2997 SE022-32x* | 8000SE 0 22 32x* |
| EN2997 SE022-39x* | 8000SE 0 22 39x* |
| EN2997 SE022-55x* | 8000SE 0 22 55x* |
| EN2997 SE024-30x* | 8000SE 0 24 30x* |
| EN2997 SE024-43x* | 8000SE 0 24 43x* |
| EN2997 SE024-57x* | 8000SE 0 24 57x* |
| EN2997 SE024-61x* | 8000SE 0 24 61x* |
| EN2997 SE028-42x* | 8000SE 0 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 3. RECEPTACLE EN2997-004 Class S

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 S708-03x* | 8000S 7 08 03x* |
| EN2997 S708-98x* | 8000S 7 08 98x* |
| EN2997 S710-02x* | 8000S 7 10 02x* |
| EN2997 S710-05x* | 8000S 7 10 05x* |
| EN2997 S710-06x* | 8000S 7 10 06x* |
| EN2997 S712-03x* | 8000S 7 12 03x* |
| EN2997 S712-12x* | 8000S 7 12 12x* |
| EN2997 S714-04x* | 8000S 7 14 04x* |
| EN2997 S714-07x* | 8000S 7 14 07x* |
| EN2997 S714-12x* | 8000S 7 14 12x* |
| EN2997 S714-15x* | 8000S 7 14 15x* |
| EN2997 S716-10x* | 8000S 7 16 10x* |
| EN2997 S716-24x* | 8000S 7 16 24x* |
| EN2997 S718-08x* | 8000S 7 18 08x* |
| EN2997 S718-14x* | 8000S 7 18 14x* |
| EN2997 S718-31x* | 8000S 7 18 31x* |
| EN2997 S720-16x* | 8000S 7 20 16x* |
| EN2997 S720-25x* | 8000S 7 20 25x* |
| EN2997 S720-28x* | 8000S 7 20 28x* |
| EN2997 S720-39x* | 8000S 7 20 39x* |
| EN2997 S720-41x* | 8000S 7 20 41x* |
| EN2997 S722-12x* | 8000S 7 22 12x* |
| EN2997 S722-19x* | 8000S 7 22 19x* |
| EN2997 S722-32x* | 8000S 7 22 32x* |
| EN2997 S722-39x* | 8000S 7 22 39x* |
| EN2997 S722-55x* | 8000S 7 22 55x* |
| EN2997 S724-30x* | 8000S 7 24 30x* |
| EN2997 S724-43x* | 8000S 7 24 43x* |
| EN2997 S724-57x* | 8000S 7 24 57x* |
| EN2997 S724-61x* | 8000S 7 24 61x* |
| EN2997 S728-42x* | 8000S 7 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 4. RECEPTACLE EN2997-004 Class SE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 SE708-03x* | 8000SE 7 08 03x* |
| EN2997 SE708-98x* | 8000SE 7 08 98x* |
| EN2997 SE710-02x* | 8000SE 7 10 02x* |
| EN2997 SE 10-05x* | 8000SE 7 10 05x* |
| EN2997 SE 710-06x* | 8000SE 7 10 06x* |
| EN2997 SE712-03x* | 8000SE 7 12 03x* |
| EN2997 SE712-12x* | 8000SE 7 12 12x* |
| EN2997 SE714-04x* | 8000SE 7 14 04x* |
| EN2997 SE714-07x* | 8000SE 7 14 07x* |
| EN2997 SE714-12x* | 8000SE 7 14 12x* |
| EN2997 SE714-15x* | 8000SE 7 14 15x* |
| EN2997 SE716-10x* | 8000SE 7 16 10x* |
| EN2997 SE716-24x* | 8000SE 7 16 24x* |
| EN2997 SE718-08x* | 8000SE 7 18 08x* |
| EN2997 SE718-14x* | 8000SE 7 18 14x* |
| EN2997 SE718-31x* | 8000SE 7 18 31x* |
| EN2997 SE720-16x* | 8000SE 7 20 16x* |
| EN2997 SE720-25x* | 8000SE 7 20 25x* |
| EN2997 SE720-28x* | 8000SE 7 20 28x* |
| EN2997 SE720-39x* | 8000SE 7 20 39x* |
| EN2997 SE720-41x* | 8000SE 7 20 41x* |
| EN2997 SE722-12x* | 8000SE 7 22 12x* |
| EN2997 SE722-19x* | 8000SE 7 22 19x* |
| EN2997 SE722-32x* | 8000SE 7 22 32x* |
| EN2997 SE722-39x* | 8000SE 7 22 39x* |
| EN2997 SE722-55x* | 8000SE 7 22 55x* |
| EN2997 SE724-30x* | 8000SE 7 24 30x* |
| EN2997 SE724-43x* | 8000SE 7 24 43x* |
| EN2997 SE724-57x* | 8000SE 7 24 57x* |
| EN2997 SE724-61x* | 8000SE 7 24 61x* |
| EN2997 SE728-42x* | 8000SE 7 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 5. PLUGS EN2997-008 Class S

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 S608-03x* | 8000S 6 08 03x* |
| EN2997 S608-98x* | 8000S 6 08 98x* |
| EN2997 S610-02x* | 8000S 6 10 02x* |
| EN2997 S610-05x* | 8000S 6 10 05x* |
| EN2997 S610-06x* | 8000S 6 10 06x* |
| EN2997 S612-03x* | 8000S 6 12 03x* |
| EN2997 S612-12x* | 8000S 6 12 12x* |
| EN2997 S614-04x* | 8000S 6 14 04x* |
| EN2997 S614-07x* | 8000S 6 14 07x* |
| EN2997 S614-12x* | 8000S 6 14 12x* |
| EN2997 S614-15x* | 8000S 6 14 15x* |
| EN2997 S616-10x* | 8000S 6 16 10x* |
| EN2997 S616-24x* | 8000S 6 16 24x* |
| EN2997 S618-08x* | 8000S 6 18 08x* |
| EN2997 S618-14x* | 8000S 6 18 14x* |
| EN2997 S618-31x* | 8000S 6 18 31x* |
| EN2997 S620-16x* | 8000S 6 20 16x* |
| EN2997 S620-25x* | 8000S 6 20 25x* |
| EN2997 S620-28x* | 8000S 6 20 28x* |
| EN2997 S620-39x* | 8000S 6 20 39x* |
| EN2997 S620-41x* | 8000S 6 20 41x* |
| EN2997 S622-12x* | 8000S 6 22 12x* |
| EN2997 S622-19x* | 8000S 6 22 19x* |
| EN2997 S622-32x* | 8000S 6 22 32x* |
| EN2997 S622-39x* | 8000S 6 22 39x* |
| EN2997 S622-55x* | 8000S 6 22 55x* |
| EN2997 S624-30x* | 8000S 6 24 30x* |
| EN2997 S624-43x* | 8000S 6 24 43x* |
| EN2997 S624-57x* | 8000S 6 24 57x* |
| EN2997 S624-61x* | 8000S 6 24 61x* |
| EN2997 S628-42x* | 8000S 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 6. PLUGS EN2997-008 Class SE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 SE608-03x* | 8000SE 6 08 03x* |
| EN2997 SE608-98x* | 8000SE 6 08 98x* |
| EN2997 SE610-02x* | 8000SE 6 10 02x* |
| EN2997 SE610-05x* | 8000SE 6 10 05x* |
| EN2997 SE610-06x* | 8000SE 6 10 06x* |
| EN2997 SE612-03x* | 8000SE 6 12 03x* |
| EN2997 SE612-12x* | 8000SE 6 12 12x* |
| EN2997 SE614-04x* | 8000SE 6 14 04x* |
| EN2997 SE614-07x* | 8000SE 6 14 07x* |
| EN2997 SE614-12x* | 8000SE 6 14 12x* |
| EN2997 SE614-15x* | 8000SE 6 14 15x* |
| EN2997 SE616-10x* | 8000SE 6 16 10x* |
| EN2997 SE616-24x* | 8000SE 6 16 24x* |
| EN2997 SE618-08x* | 8000SE 6 18 08x* |
| EN2997 SE618-14x* | 8000SE 6 18 14x* |
| EN2997 SE618-31x* | 8000SE 6 18 31x* |
| EN2997 SE620-16x* | 8000SE 6 20 16x* |
| EN2997 SE620-25x* | 8000SE 6 20 25x* |
| EN2997 SE620-28x* | 8000SE 6 20 28x* |
| EN2997 SE620-39x* | 8000SE 6 20 39x* |
| EN2997 SE620-41x* | 8000SE 6 20 41x* |
| EN2997 SE622-12x* | 8000SE 6 22 12x* |
| EN2997 SE622-19x* | 8000SE 6 22 19x* |
| EN2997 SE622-32x* | 8000SE 6 22 32x* |
| EN2997 SE622-39x* | 8000SE 6 22 39x* |
| EN2997 SE622-55x* | 8000SE 6 22 55x* |
| EN2997 SE624-30x* | 8000SE 6 24 30x* |
| EN2997 SE624-43x* | 8000SE 6 24 43x* |
| EN2997 SE624-57x* | 8000SE 6 24 57x* |
| EN2997 SE624-61x* | 8000SE 6 24 61x* |
| EN2997 SE628-42x* | 8000SE 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 7. PLUGS EN2997-008 Class K

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 K608-03x* | 8000K 6 08 03x* |
| EN2997 K608-98x* | 8000K 6 08 98x* |
| EN2997 K610-02x* | 8000K 6 10 02x* |
| EN2997 K610-05x* | 8000K 6 10 05x* |
| EN2997 K610-06x* | 8000K 6 10 06x* |
| EN2997 K612-03x* | 8000K 6 12 03x* |
| EN2997 K612-12x* | 8000K 6 12 12x* |
| EN2997 K614-04x* | 8000K 6 14 04x* |
| EN2997 K614-07x* | 8000K 6 14 07x* |
| EN2997 K614-12x* | 8000K 6 14 12x* |
| EN2997 K614-15x* | 8000K 6 14 15x* |
| EN2997 K616-10x* | 8000K 6 16 10x* |
| EN2997 K616-24x* | 8000K 6 16 24x* |
| EN2997 K618-08x* | 8000K 6 18 08x* |
| EN2997 K618-14x* | 8000K 6 18 14x* |
| EN2997 K618-31x* | 8000K 6 18 31x* |
| EN2997 K620-16x* | 8000K 6 20 16x* |
| EN2997 K620-25x* | 8000K 6 20 25x* |
| EN2997 K620-28x* | 8000K 6 20 28x* |
| EN2997 K620-39x* | 8000K 6 20 39x* |
| EN2997 K620-41x* | 8000K 6 20 41x* |
| EN2997 K622-12x* | 8000K 6 22 12x* |
| EN2997 K622-19x* | 8000K 6 22 19x* |
| EN2997 K622-32x* | 8000K 6 22 32x* |
| EN2997 K622-39x* | 8000K 6 22 39x* |
| EN2997 K622-55x* | 8000K 6 22 55x* |
| EN2997 K624-30x* | 8000K 6 24 30x* |
| EN2997 K624-43x* | 8000K 6 24 43x* |
| EN2997 K624-57x* | 8000K 6 24 57x* |
| EN2997 K624-61x* | 8000K 6 24 61x* |
| EN2997 K628-42x* | 8000K 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

## 8. PLUGS EN2997-008 Class KE

| EN2997 | CONESYS P/N |
|---|---|
| EN2997 KE608-03x* | 8000KE 6 08 03x* |
| EN2997 KE608-98x* | 8000KE 6 08 98x* |
| EN2997 KE610-02x* | 8000KE 6 10 02x* |
| EN2997 KE610-05x* | 8000KE 6 10 05x* |
| EN2997 KE610-06x* | 8000KE 6 10 06x* |
| EN2997 KE612-03x* | 8000KE 6 12 03x* |
| EN2997 KE612-12x* | 8000KE 6 12 12x* |
| EN2997 KE614-04x* | 8000KE 6 14 04x* |
| EN2997 KE614-07x* | 8000KE 6 14 07x* |
| EN2997 KE614-12x* | 8000KE 6 14 12x* |
| EN2997 KE614-15x* | 8000KE 6 14 15x* |
| EN2997 KE616-10x* | 8000KE 6 16 10x* |
| EN2997 KE616-24x* | 8000KE 6 16 24x* |
| EN2997 KE618-08x* | 8000KE 6 18 08x* |
| EN2997 KE618-14x* | 8000KE 6 18 14x* |
| EN2997 KE618-31x* | 8000KE 6 18 31x* |
| EN2997 KE620-16x* | 8000KE 6 20 16x* |
| EN2997 KE620-25x* | 8000KE 6 20 25x* |
| EN2997 KE620-28x* | 8000KE 6 20 28x* |
| EN2997 KE620-39x* | 8000KE 6 20 39x* |
| EN2997 KE620-41x* | 8000KE 6 20 41x* |
| EN2997 KE622-12x* | 8000KE 6 22 12x* |
| EN2997 KE622-19x* | 8000KE 6 22 19x* |
| EN2997 KE622-32x* | 8000KE 6 22 32x* |
| EN2997 KE622-39x* | 8000KE 6 22 39x* |
| EN2997 KE622-55x* | 8000KE 6 22 55x* |
| EN2997 KE624-30x* | 8000KE 6 24 30x* |
| EN2997 KE624-43x* | 8000KE 6 24 43x* |
| EN2997 KE624-57x* | 8000KE 6 24 57x* |
| EN2997 KE624-61x* | 8000KE 6 24 61x* |
| EN2997 KE628-42x* | 8000KE 6 28 42x* |

x = F or B, M or A
* = N, 6, 7, 8 or 9 for size 8
* = N, 6, 7, 8, 9 or Y for other sizes

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 144**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

CONESYS
1631 East St Andrews Place
Santa Anna
CA 92705
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | EN2997-x Class S and Class SE :<br>See attachment | See attachment |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11 September 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachment to PQ 144

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003 **Square flange receptacle – Class S** | EN2997-0S08-03x*<br>EN2997-0S08-98x*<br>EN2997-0S10-02x*<br>EN2997-0S10-05x*<br>EN2997-0S10-06x*<br>EN2997-0S12-03x*<br>EN2997-0S12-12x*<br>EN2997-0S14-04x*<br>EN2997-0S14-07x*<br>EN2997-0S14-12x*<br>EN2997-0S14-15x*<br>EN2997-0S16-10x*<br>EN2997-0S16-24x*<br>EN2997-0S18-08x*<br>EN2997-0S18-14x*<br>EN2997-0S18-31x*<br>EN2997-0S20-16x*<br>EN2997-0S20-25x*<br>EN2997-0S20-28x*<br>EN2997-0S20-39x*<br>EN2997-0S20-41x*<br>EN2997-0S22-12x*<br>EN2997-0S22-19x*<br>EN2997-0S22-32x*<br>EN2997-0S22-39x*<br>EN2997-0S22-55x*<br>EN2997-0S24-30x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003 **Square flange receptacle – Class SE** | EN2997 0SE08-03x*<br>EN2997 0SE08-98x*<br>EN2997 0SE10-02x*<br>EN2997 0SE10-05x*<br>EN2997 0SE10-06x*<br>EN2997 0SE12-03x*<br>EN2997 0SE12-12x*<br>EN2997 0SE14-04x*<br>EN2997 0SE14-07x*<br>EN2997 0SE14-12x*<br>EN2997 0SE14-15x*<br>EN2997 0SE16-10x*<br>EN2997 0SE16-24x*<br>EN2997 0SE18-08x*<br>EN2997 0SE18-14x*<br>EN2997 0SE18-31x*<br>EN2997 0SE20-16x*<br>EN2997 0SE20-25x*<br>EN2997 0SE20-28x*<br>EN2997 0SE20-39x*<br>EN2997 0SE20-41x*<br>EN2997 0SE22-12x*<br>EN2997 0SE22-19x*<br>EN2997 0SE22-32x*<br>EN2997 0SE22-39x*<br>EN2997 0SE22-55x*<br>EN2997 0SE24-30x*<br>EN2997 0SE24-43x*<br>EN2997 0SE24-57x*<br>EN2997 0SE24-61x*<br>EN2997 0SE28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-004 **Jam-nut mounted receptacle – Class S** | EN2997 7S08-03x*<br>EN2997 7S08-98x*<br>EN2997 7S10-02x*<br>EN2997 7S10-05x*<br>EN2997 7S10-06x*<br>EN2997 7S12-03x*<br>EN2997 7S12-12x*<br>EN2997 7S14-04x*<br>EN2997 7S14-07x*<br>EN2997 7S14-12x*<br>EN2997 7S14-15x*<br>EN2997 7S16-10x*<br>EN2997 7S16-24x*<br>EN2997 7S18-08x*<br>EN2997 7S18-14x*<br>EN2997 7S18-31x*<br>EN2997 7S20-16x*<br>EN2997 7S20-25x*<br>EN2997 7S20-28x*<br>EN2997 7S20-39x*<br>EN2997 7S20-41x*<br>EN2997 7S22-12x*<br>EN2997 7S22-19x*<br>EN2997 7S22-32x*<br>EN2997 7S22-39x*<br>EN2997 7S22-55x*<br>EN2997 7S24-30x*<br>EN2997 7S24-43x*<br>EN2997 7S24-57x*<br>EN2997 7S24-61x*<br>EN2997 7S28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-004 **Jam-nut mounted receptacle – Class SE** | EN2997 7SE08-03x*<br>EN2997 7SE08-98x*<br>EN2997 7SE10-02x*<br>EN2997 7SE10-05x*<br>EN2997 7SE10-06x*<br>EN2997 7SE12-03x*<br>EN2997 7SE12-12x*<br>EN2997 7SE14-04x*<br>EN2997 7SE14-07x*<br>EN2997 7SE14-12x*<br>EN2997 7SE14-15x*<br>EN2997 7SE16-10x*<br>EN2997 7SE16-24x*<br>EN2997 7SE18-08x*<br>EN2997 7SE18-14x*<br>EN2997 7SE18-31x*<br>EN2997 7SE20-16x*<br>EN2997 7SE20-25x*<br>EN2997 7SE20-28x*<br>EN2997 7SE20-39x*<br>EN2997 7SE20-41x*<br>EN2997 7SE22-12x*<br>EN2997 7SE22-19x*<br>EN2997 7SE22-32x*<br>EN2997 7SE22-39x*<br>EN2997 7SE22-55x*<br>EN2997 7SE24-30x*<br>EN2997 7SE24-43x*<br>EN2997 7SE24-57x*<br>EN2997 7SE24-61x*<br>EN2997 7SE28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-008 **Plugs – Class S** | EN2997 6S08-03x*<br>EN2997 6S08-98x*<br>EN2997 6S10-02x*<br>EN2997 6S10-05x*<br>EN2997 6S10-06x*<br>EN2997 6S12-03x*<br>EN2997 6S12-12x*<br>EN2997 6S14-04x*<br>EN2997 6S14-07x*<br>EN2997 6S14-12x*<br>EN2997 6S14-15x*<br>EN2997 6S16-10x*<br>EN2997 6S16-24x*<br>EN2997 6S18-08x*<br>EN2997 6S18-14x*<br>EN2997 6S18-31x*<br>EN2997 6S20-16x*<br>EN2997 6S20-25x*<br>EN2997 6S20-28x*<br>EN2997 6S20-39x*<br>EN2997 6S20-41x*<br>EN2997 6S22-12x*<br>EN2997 6S22-19x*<br>EN2997 6S22-32x*<br>EN2997 6S22-39x*<br>EN2997 6S22-55x*<br>EN2997 6S24-30x*<br>EN2997 6S24-43x*<br>EN2997 6S24-57x*<br>EN2997 6S24-61x*<br>EN2997 6S28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

Attachment to PQ 144 (concluded)

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-008 **Plugs – Class SE** | EN2997 6SE08-03x*<br>EN2997 6SE08-98x*<br>EN2997 6SE10-02x*<br>EN2997 6SE10-05x*<br>EN2997 6SE10-06x*<br>EN2997 6SE12-03x*<br>EN2997 6SE12-12x*<br>EN2997 6SE14-04x*<br>EN2997 6SE14-07x*<br>EN2997 6SE14-12x*<br>EN2997 6SE14-15x*<br>EN2997 6SE16-10x*<br>EN2997 6SE16-24x*<br>EN2997 6SE18-08x*<br>EN2997 6SE18-14x*<br>EN2997 6SE18-31x*<br>EN2997 6SE20-16x*<br>EN2997 6SE20-25x*<br>EN2997 6SE20-28x*<br>EN2997 6SE20-39x*<br>EN2997 6SE20-41x*<br>EN2997 6SE22-12x*<br>EN2997 6SE22-19x*<br>EN2997 6SE22-32x*<br>EN2997 6SE22-39x*<br>EN2997 6SE22-55x*<br>EN2997 6SE24-30x*<br>EN2997 6SE24-43x*<br>EN2997 6SE24-57x*<br>EN2997 6SE24-61x*<br>EN2997 6SE28-42x* | QD042-02 – 12/06/2006<br>Louis Leblanc - Eurocopter |
| x = F or B, M or A<br>* = N, 6, 7, 8 or 9 for size 8<br>* = N, 6, 7, 8, 9 or Y for other sizes | | |

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 143**<br>**partially including renewals from PQ's 034, 038 and 049.** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
Barkby Road,
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | See attachment | See attachment |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11 September 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachment to PQ 143

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-050<br>EN3013-060<br>EN3013-080<br>EN3637-100<br>EN3672-050 | ESD 9215 – 02/09/2006<br>Mr Rudge – Rolls-Royce |
| EN2582 | EN2929-050016<br>EN2929-060030<br>EN2929-080026<br>EN3294-050009<br>EN3294-100014 | ESD 9221 – 02/09/2006<br>Mr Rudge – Rolls-Royce |

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 142**<br>**partially including renewals from PQ 037.** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
Barkby Road,
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | See attachment | See attachment |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11 September 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachment to PQ 142

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3833 | EN3832-070026 | ESD 9217 – 02/09/2006<br>Mr Rudge – Rolls-Royce |
| EN2583 | EN2927-050054<br>EN2927-060026<br>EN2927-080026<br>EN2927-120048<br>EN2928-050028<br>EN3008-050020<br>EN3008-060024<br>EN3293-060010<br>EN3293-070016<br>EN3327-050019<br>EN3327-060023<br>EN3327-080009<br>EN3327-100024 | ESD 9218 – 02/09/2006<br>Mr Rudge – Rolls-Royce |

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Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 141**<br>**partially including renewals from PQ's 031, 032, 033, 036, and 053.** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
Barkby Road,
Troon Industrial Area,
Leicester. LE4 9HX
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | See attachment | See attachment |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11 September 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachment to PQ 141

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3152 | EN3241-050 | ESD 9213 – 02/09/2006<br>Mr Rudge – Rolls-Royce |
| EN3004 | EN2907-050<br>EN2907-060<br>EN2907-070<br>EN2907-080<br>EN2909-050<br>EN2909-070<br>EN2909-080<br>EN2909-100<br>EN2911-050 | ESD 9214 – 02/09/2006<br>Mr Rudge – Rolls-Royce |
| ISO8168 | EN3052-050010 | ESD 9216 – 02/09/2006<br>Mr Rudge – Rolls-Royce |
| EN2576 | EN2925-050014<br>EN2925-080034<br>EN2926-050020 | ESD 9219 – 02/09/2006<br>Mr Rudge – Rolls-Royce |
| EN3685 | EN3686-050014<br>EN3687-060014 | ESD 9220 – 02/09/2006<br>Mr Rudge – Rolls-Royce |

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Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 140 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155<br>See Appendix for the Qualified part number list | MBR Report N°187 ACP005-Form 2<br>Date 2013-03-21<br>Christian Mazelle, Snecma |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JANUARY 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/12/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 140 - Appendix 1 for the Qualified part number list

| ASD Designation | ASD Cert | TSEI Part Numbers | |
|---|---|---|---|
| | | 0,8 µm Au Full Plate | 0,8 µm Au Selective Plate |
| Table A.2 Part Number from PQ 140 | | | |
| EN3155-003F1010 | PQ 140 | 218-1010-909 | 218-1010-909-L |
| EN3155-003F1614 | PQ 140 | 218-1614-907 | 218-1614-907-L |
| EN3155-003F1616 | PQ 140 | 218-1616-107 | 218-1616-107-L |
| EN3155-003F2018 | PQ 140 | 218-2018-906 | 218-2018-906-L |
| EN3155-003F2020 | PQ 140 | 21D-2020-106 | 21D-2020-106-L |
| EN3155-003F2222 | PQ 140 | 218-2222-103 | 218-2222-103-L |
| EN3155-008M1212 | PQ 140 | 217-1212-108 | 217-1212-108-L |
| EN3155-008M1614 | PQ 140 | 21A-1614-807 | 21A-1614-807-L |
| EN3155-008M1616 | PQ 140 | 217-1616-107 | 217-1616-107-L |
| EN3155-008M2018 | PQ 140 | 217-2018-996 | 217-2018-996-L |
| EN3155-008M2020 | PQ 140 | 217-2020-106 | 217-2020-106-L |
| EN3155-009F1212 | PQ 140 | 218-1212-141 | 218-1212-141-L |
| EN3155-009F1614 | PQ 140 | 218-1614-140 | 218-1614-140-L |
| EN3155-009F1616 | PQ 140 | 218-1616-140 | 218-1616-140-L |
| EN3155-009F2018 | PQ 140 | 218-20SP-139 | 218-20SP-139-L |
| EN3155-014M2018 | PQ 140 | 217-2018-055 | 217-2018-055-L |
| EN3155-015F2018 | PQ 140 | 218-2018-055 | 218-2018-055-L |
| EN3155-015F2020 | PQ 140 | 218-2020-055 | 218-2020-055-L |
| EN3155-016M2018 | PQ 140 | 219-2018-816 | 219-2018-816-L |
| EN3155-016M2222 | PQ 140 | 219-2222-816 | 219-2222-816-L |
| EN3155-018M1212 | PQ 140 | 217-1212-090 | 217-1212-090-L |
| EN3155-018M1614 | PQ 140 | 217-1614-089 | 217-1614-089-L |
| EN3155-018M1616 | PQ 140 | 217-1616-089 | 217-1616-089-L |
| EN3155-018M2018 | PQ 140 | 21A-2018-088 | 21A-2018-088-L |
| EN3155-018M2020 | PQ 140 | 217-2020-088 | 217-2020-088-L |
| EN3155-018M2022 | PQ 140 | 217-2022-788 | 217-2022-788-L |
| EN3155-019F1614 | PQ 140 | 218-1614-889 | 218-1614-889-L |
| EN3155-019F1618 | PQ 140 | 218-1618-089 | 218-1618-089-L |
| EN3155-019F2018 | PQ 140 | 218-2018-888 | 218-2018-888-L |
| EN3155-019F2020 | PQ 140 | 218-2020-088 | 218-2020-088-L |
| EN3155-019F2022 | PQ 140 | 218-2022-788 | 218-2022-788-L |
| EN3155-026P2222 | PQ 140 | 217-2222-306 | 217-2222-306-L |
| EN3155-027F1212 | PQ 140 | 218-1212-306 | 218-1212-306-L |
| EN3155-027F1616 | PQ 140 | 218-1616-306 | 218-1616-306-L |
| EN3155-027F2020 | PQ 140 | 218-2020-306 | 218-2020-306-L |
| EN3155-027F2222 | PQ 140 | 218-2222-306 | 218-2222-306-L |
| EN3155-055F2020 | PQ 140 | 01B-2020-088A* | |
| EN3155-057F2020 | PQ 140 | 01B-2020-088C* | |

*Thermocouple contact - Not plated
*Thermocouple contact - Not plated

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 140 (renewal)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-<br>See appendix | Eurocopter Report - 03/03/2009<br>Louis Leblanc - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

21 July 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# APPENDIX

## Qualified part numbers

| EN P/N | TRI STAR P/N | TRI STAR P/N Fully plated | TRI STAR P/N Selectively plated | TRI STAR P/N Full plate low Au | TRI STAR P/N Selective low Au |
|---|---|---|---|---|---|
| EN3155-003F1010 | TS3155-003F1010 | 318-1010-909 | | 218-1010-909 | 218-1010-909-L |
| EN3155-003F1614 | TS3155-003F1614 | 318-1614-907 | | 218-1614-907 | 218-1614-907-L |
| EN3155-003F1616 | TS3155-003F1616 | 316-1616-107 | 316-1616-107-L | 218-1616-107 | 218-1616-107-L |
| EN3155-003F2018 | TS3155-003F2018 | 318-2018-906 | | 218-2018-906 | 218-2018-906-L |
| EN3155-003F2020 | TS3155-003F2020 | 31D-2020-106 | 31D-2020-106-L | 21D-2020-106 | 21D-2020-106-L |
| EN3155-003F2222 | TS3155-003F2222 | 316-2222-103 | | 218-2222-103 | 218-2222-103-L |
| EN3155-008M1212 | TS3155-008M1212 | 315-1212-108 | | 217-1212-108 | 217-1212-108-L |
| EN3155-008M1614 | TS3155-008M1614 | 31A-1614-807 | | 21A-1614-807 | 21A-1614-807-L |
| EN3155-008M1616 | TS3155-008M1616 | 315-1616-107 | 315-1616-107-L | 217-1616-107 | 217-1616-107-L |
| EN3155-008M2018 | TS3155-008M2018 | 317-2018-996 | | 217-2018-996 | 217-2018-996-L |
| EN3155-008M2020 | TS3155-008M2020 | 315-2020-106 | | 217-2020-106 | 217-2020-106-L |
| EN3155-009F1212 | TS3155-009F1212 | 316-1212-141 | 316-1212-141-L | 218-1212-141 | 218-1212-141-L |
| EN3155-009F1614 | TS3155-009F1614 | 318-1614-140 | 318-1614-140-L | 218-1614-140 | 218-1614-140-L |
| EN3155-009F1616 | TS3155-009F1616 | 316-1616-140 | 316-1616-140-L | 218-1616-140 | 218-1616-140-L |
| EN3155-009F2018 | TS3155-009F2018 | 318-20SP-139 | 318-20SP-139-L | 218-20SP-139 | 218-20SP-139-L |
| EN3155-014M2018 | TS3155-014M2018 | 317-2018-055 | 317-2018-055-L | 217-2018-055 | 217-2018-055-L |
| EN3155-015F2018 | TS3155-015F2018 | 318-2018-055 | 318-2018-055-L | 218-2018-055 | 218-2018-055-L |
| EN3155-015F2020 | TS3155-015F2020 | 318-2020-055 | 318-2020-055-L | 218-2020-055 | 218-2020-055-L |
| EN3155-016M2018 | TS3155-016M2018 | 319-2018-816 | | 219-2018-816 | |
| EN3155-016M2222 | TS3155-016M2222 | 319-2222-816 | | 219-2222-816 | |
| EN3155-018M1212 | TS3155-018M1212 | 315-1212-090 | 315-1212-090-L | 217-1212-090 | 217-1212-090-L |
| EN3155-018M1614 | TS3155-018M1614 | 317-1614-089 | 317-1614-089-L | 217-1614-089 | 217-1614-089-L |
| EN3155-018M1616 | TS3155-018M1616 | 315-1616-089 | 315-1616-089-L | 217-1616-089 | 217-1616-089-L |
| EN3155-018M2018 | TS3155-018M2018 | 31A-2018-088 | 315-2018-088-L | 21A-2018-088 | 21A-2018-088-L |
| EN3155-018M2020 | TS3155-018M2020 | 315-2020-088 | 315-2020-088-L | 217-2020-088 | 217-2020-088-L |
| EN3155-018M2022 | TS3155-018M2022 | 317-2022-788 | | 217-2022-788 | 217-2022-788-L |
| EN3155-019F1614 | TS3155-019F1614 | 318-1614-889 | | 218-1614-889 | 218-1614-889-L |
| EN3155-019F1618 | TS3155-019F1618 | 318-1618-089 | 318-1618-089-L | 218-1618-089 | 218-1618-089-L |
| EN3155-019F2018 | TS3155-019F2018 | 318-2018-888 | | 218-2018-888 | 218-2018-888-L |
| EN3155-019F2020 | TS3155-019F2020 | 316-2020-088 | 316-2020-088-L | 218-2020-088 | 218-2020-088-L |
| EN3155-019F2022 | TS3155-019F2022 | 318-2022-788 | 318-2022-788-L | 218-2022-788 | 218-2022-788-L |
| EN3155-026P2222 | TS3155-026P2222 | 315-2222-306 | 315-2222-306-L | | |
| EN3155-027F1212 | TS3155-027F1212 | 316-1212-306 | | 218-1212-306 | 218-1212-306-L |
| EN3155-027F1616 | TS3155-027F1616 | 316-1616-306 | | 218-1616-306 | 218-1616-306-L |
| EN3155-027F2020 | TS3155-027F2020 | 316-2020-306 | | 218-2020-306 | 218-2020-306-L |
| EN3155-027F2222 | TS3155-027F2222 | 316-2222-306 | | 218-2222-306 | 218-2222-306-L |
| EN3155-055F2020 | TS3155-055F2020 | 01B-2020-088-A | *NOT PLATED* | | |
| EN3155-057F2020 | TS3155-057F2020 | 01B-2020-088-C | *NOT PLATED* | | |

ASD-CERT
Certification of Aerospace Standard Products

270 Av. de Tervuren
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 140**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : TRI-STAR Electronics International, INC.
2201, Rosecrans Avenue
EL SEGUNDO CA 90245
UNITED STATES

PLACE OF MANUFACTURE : as above
LIEU DE FABRICATION :
HERSTELLUNGSORT :

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | See attachment | BOP 9 Revision H<br>18-10-2005<br>Louis Leblanc (Eurocopter) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 10 May 2007

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General

# Appendix PQ140 – 10/05/2007

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse |
|---|---|
| EN3155-001 | EN3155-003F1010 |
| | EN3155-003F1616 |
| | EN3155-003F2020 |
| | EN3155-003F1614 |
| | EN3155-003F2018 |
| | EN3155-003F2222 |
| | EN3155-008M1212 |
| | EN3155-008M1614 |
| | EN3155-008M1616 |
| | EN3155-008M2018 |
| | EN3155-008M2020 |
| | EN3155-009F1212 |
| | EN3155-009F1614 |
| | EN3155-009F1616 |
| | EN3155-009F2018 |
| | EN3155-014M2018 |
| | EN3155-015F2018 |
| | EN3155-015F2020 |
| | EN3155-016M2018 |
| | EN3155-016M2222 |
| | EN3155-018M1212 |
| | EN3155-018M1614 |
| | EN3155-018M1616 |
| | EN3155-018M2018 |
| | EN3155-018M2020 |
| | EN3155-018M2022 |
| | EN3155-019F1614 |
| | EN3155-019F1618 |
| | EN3155-019F2020 |
| | EN3155-019F2018 |
| | EN3155-019F2022 |
| | EN3155-026M2222 |
| | EN3155-027F1212 |
| | EN3155-027F1616 |
| | EN3155-027F2020 |
| | EN3155-027F2222 |
| | EN3155-055F2020 |
| | EN3155-057F2020 |

AS ERT
Certificat d Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 139 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4047 | EN4011-060 | ASD-STAN EN4011-060 & 070 requalification_2010-09-24-woQTR<br>29/09/2010 - M. Philippe HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

08/11/2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 139 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4047 | EN4011-060 | ASD-STAN EN4011-060 & 070 requalification_2010-09-24-woQTR<br>29/09/2010 - M. Philippe HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

08/11/2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

270 Av. de Tervuren
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 139**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

AFS - SIMMONDS
9 rue des Cressonnières
72110 Saint Cosme en Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4047 | EN4011-060 | 6100DHE10TJ, 30.01.2007<br>Philippe Henry, Snecma |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

01 March 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **NEW PQ 138**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Bristol Industries
630 East Lambert Road
Brea, CA 92821
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-100 | Report: N°204 Bristol_ACP005 Form2– 2013/04/25<br>Keith ALLEN, ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 27/05/2013
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 138** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Bristol Industries
630 East Lambert Road
Brea, CA 92821
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3013-100 | ESD9201 15-12-2006<br>Richard Scott, Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

10 January 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 137**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : GREENE, TWEED & Co.
2075 Detwiler Road, Kulpsville
PA 19443-305
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN6111<br>EN6109 | EN6075<br>EN6076 | Test Report N°X29RP0521737<br>12-12-2005<br>Holger Doyen, Airbus |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE !
DATUM : 11 December 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 136** OK

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Linread Northbridge
Viking Road,
Wingston, Leicester. LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3327<br>EN2583 | EN3327-080-020 | ESD9247 09-10-2006 / LNL16<br>J.R. D Rudge, M. P. Stock,<br>Rolls Royce |
| EN3327<br>EN2583 | EN3327-100-024 | ESD9246 09-10-2006 / LNL17<br>J.R. D Rudge, M. P. Stock,<br>Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE / DATE / DATUM : 07 December 2006

PLACE / A / ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 135**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Paolo Astori S.r.l.
Via Mirabella, 12
28013 - Gattico (NO)
Italy

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005<br>EN3672 | EN3672-060 | QTR ML 4872 26/08/2005<br>Gualtiero ARSENTO<br>Alenia Aeronautica S.p.a. |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 07 December 2006
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 134**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2928-050 series | ESD 9486 - November / 2010<br>M. STOCK - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
7 March 2011

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 134**<br>**partially including renewal from PQ 041** OK |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Linread Northbridge
Viking Road, Wigston
Leicester LE18 2BL
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2928-050016 | ESD9269 Rolls Royce<br>August 2006, J.R.D. Rudge |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

28 November 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 133** ov

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Nexans-Filotex
146, rue E. Delacroix BP1
91211 Draveil
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2084<br><br>EN2084 | EN2266-003<br><br>EN2266-005 | EYAE, D06008172,<br>30 march 2006<br><br>AIRBUS, Régis Ruffel |
| EN2235 | EN2713-007 | EYAE, D06008175,<br>30 march 2006<br><br>AIRBUS, Régis Ruffel |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE / DATE / DATUM : 04 December 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8117
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 132** 0 ✓ |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Draka-Fileca (F1868)
Route Nationale 1
60730 Sainte Geneviève
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3375-001 | EN3375-007C<br>marking: EN WW FR A xx<br>(xx = date of manufacture) | O/IDE No. 059/05 Issue a<br>10.03.2006<br>Françoise Foray, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20. October 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8117
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 131** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Draka-Fileca (F1868)
Route Nationale 1
60730 Sainte Geneviève
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3375-001 | EN3375-004C<br>marking: EN WJ FR A xx<br>(xx = date of manufacture) | D06019015, 16.08.2006<br>Régis Ruffel, Airbus EYA E |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

28 Sep 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 130 - RENEWAL** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9, rue des Cressonnières
72110 Saint-Cosme-en-Vairais
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4047 | EN4011-070 | ASD-STAN EN4011-060 & 070 requalification_2010-09-24-woQTR<br>29/09/2010 - M. Philippe HENRY - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

08/11/2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 130** 01

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : AFS Simmonds
9 rue des Cressionières
72110 St. Cosmes en Varais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN4047 | EN4011-070 | 5126/A, June 2006<br>Philippe Henry, Snecma |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 25 Sep 2006
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Tervuren Ave, 270
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 129**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS Technologies
2701 South Harbour Blvd
Santa Ana, CA 92702, USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN3236-050<br>EN3236-070<br>EN3236-080<br>EN3237-050 (by analogy)<br>EN3237-070 (by analogy)<br>EN3237-080 (by analogy) | ESD9270 21 Sep 2006<br>ESD9271 iss 2, 22 Sep 2006<br>ESD9272 21 Sep 2006 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**Sep 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE / DATE / DATUM : 25 Sep 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 128** OK |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

RIBE Verbindungstechnik GmbH & Co. KG
Bahnhofstr. 8-16
D-91126 Schwabach
GERMANY

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| LN65010 | LN9438 M5x22 RIBE PN: 226272X1 | E-8021, 24.03.2005 |
| LN65010 | LN65022-0620 RIBE PN: 226378X1 | E-8022, 24.03.2005 |
| | | Hans Ziemer, EADS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

21 August 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 127**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

RIBE Verbindungstechnik GmbH & Co. KG
Bahnhofstr. 8-16
D-91126 Schwabach
GERMANY

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| LN65010 | LN29940-06040 RIBE PN: 22653411 | E-8936, 29.11.2005<br>Hans Ziemer, EADS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

21 August 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 126**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : RIBE Verbindungstechnik GmbH & Co. KG
Bahnhofstr. 8-16
D-91126 Schwabach
GERMANY

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| DIN65149 | LN9139 M3x8 RIBE PN: 22571711 | E-8626, 06.12.2005<br>Hans Ziemer, EADS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 21 August 2006
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 125** 0√~

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : RIBE Verbindungstechnik GmbH & Co. KG
Bahnhofstr. 8-16
D-91126 Schwabach
GERMANY

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| DIN65149 | LN9439 M3x22 RIBE PN: 226469X1 | E-8693, 30.08.2005<br>Hans Ziemer, EADS |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 21 August 2006
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT **PQ 124**
ZERTIFIKAT NR.

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION : As above
HERSTELLUNGSORT :

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3637-080 , -100<br>EN 3672-050 | Report - June 2009<br>Michel Capblancq - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

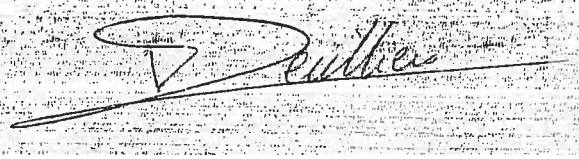
**FEBRUARY 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 8 February 2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :



ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 124** 01

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Lisi Aerospace
Blanc Aero Industries
Rue Jean Vaurs
12200 Villefranche de Rouergue
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3637-080 | GP/DJ No. 19799 22.03.2006 |
| | EN3637-100 | GP/DJ No. 19800 23.03.2006 |
| | E N3672-050 | GP/DJ No. 19801 23.03.2006 |
| | | Francis Guerrier, Turbomeca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 21 August 2006
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 123** OK

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Nexans-Filotex
146, Rue E. Delacroix BP1
91211 Draveil, France

PLACE OF MANUFACTURE : as above
LIEU DE FABRICATION :
HERSTELLUNGSORT :

ASD-CERT Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| prEN4604-001 P2 | prEN4604-006 P2<br>prEN4604-007 P3 | O/IDE 064/05, 03.03.2006<br>O/IDE 065/05, 03.03.2006<br>Eurocopter, Françoise Foray |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 06 April 2006
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 122** OK

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : TENSOLITE
100, Tensolite Drive
St Augustine, FL 32092, USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2084<br>EN2084<br>EN2235 | EN2267-009<br>EN2267-010<br>EN2714-013 | O/IDE No 012/06, issue a, 22 Feb 2006<br>Eurocopter, Françoise Foray |

**Remark:** The wire performances are compliant with the specification requirements excepted for Thermal endurance test. This test (EN3475-410), performed on DR20 only is in progress, the full results of the test are expected by current march 2007. Qualification is granted by ASD-CERT with the restriction on the outstanding thermal endurance test result.

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 04 April 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 121**<br>**partially including renewals from PQ's 040, 041, 042** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Linread Northbridge
Viking Road, Wigston
Leicester LE18 2BL
United Kingdom

PLACE OF MANUFACTURE : as above
LIEU DE FABRICATION :
HERSTELLUNGSORT :

ASD-CERT

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| see attachment | see attachment | see attachment |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 24 March 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

**Attachment to PQ 121**

## List of qualified standards

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN2925-060018 | Rolls-Royce ESD 9189 Jan 2006 |
| EN2583 | EN2927-050040 | Rolls-Royce ESD 9190 Jan 2006 |
| EN2583 | EN2927-070024 | Rolls-Royce ESD 9191 Jan 2006 |
| EN2583 | EN3327-060015 | Rolls-Royce ESD 9192 Jan 2006 |
| ISO9154 | EN2874-060027 | Rolls-Royce ESD 9196 Jan 2006 |
| EN2583 | EN2927-080 | Rolls-Royce ESD 9197 Jan 2006 |
| EN2583 | EN2929-120 | Rolls-Royce ESD 9197 Jan2006 |
| EN2582 | EN2929-060016 | Rolls-Royce ESD 9198 Jan 2006 |
| EN2582 | EN2929-050020 | Rolls-Royce ESD 9199 Jan 2006 |
| EN2576 | EN2926-050015 | Rolls-Royce ESD 9207 Jan 2006 |

ASD-CERT
Certification of Aerospace Standard Products

PLACE :
A :
ORT : Brussels, Belgium

DATE :
DATE : 24 March 2006
DATUM :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 121**

**partially including renewals from PQ's 040, 041, 042**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Linread Northbridge
Viking Road, Wigston
Leicester LE18 2BL
United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| see attachment | see attachment | see attachment |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

24 March 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

**Attachment to PQ 121**

## List of qualified standards

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN2925-060018 | Rolls-Royce ESD 9189 Jan 2006 |
| EN2583 | EN2927-050040 | Rolls-Royce ESD 9190 Jan 2006 |
| EN2583 | EN2927-070024 | Rolls-Royce ESD 9191 Jan 2006 |
| EN2583 | EN3327-060015 | Rolls-Royce ESD 9192 Jan 2006 |
| ISO9154 | EN2874-060027 | Rolls-Royce ESD 9196 Jan 2006 |
| EN2583 | EN2927-080 | Rolls-Royce ESD 9197 Jan 2006 |
| EN2583 | EN2929-120 | Rolls-Royce ESD 9197 Jan2006 |
| EN2582 | EN2929-060016 | Rolls-Royce ESD 9198 Jan 2006 |
| EN2582 | EN2929-050020 | Rolls-Royce ESD 9199 Jan 2006 |
| EN2576 | EN2926-050015 | Rolls-Royce ESD 9207 Jan 2006 |

PLACE :
A :
ORT : Brussels, Belgium

DATE :
DATE : 24 March 2006
DATUM :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Av de Tervuren 270
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 120**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Cabletec ICS Limited
Sunnyside Road, Weston super Mare
North Somerset BS23 3PZ, United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Qualification Test Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2591<br>EN3475 | prEN4199-004<br>prEN4199-006 | QinetiQ/S&DU/BCC/101131-1/2.0, 22 Nov 2005<br>QinetiQ/S&DU/BCC/101131-2/1.0, 30 July 2005<br>+ statement December 2007 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 17 January 2008
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 120** OK

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Cabletec ICS Limited
Sunnyside Road, Weston super Mare
North Somerset BS23 3PZ, United Kingdom

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Qualification Test Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2591 | prEN4199-004 | QinetiQ/S&DU/BCC/101131-1/2.0, 22 Nov 2005 |
| EN3475 | prEN4199-006 | QinetiQ/S&DU/BCC/101131-2/1.0, 30 July 2005 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2006 for prEN4199-004**
**July 2008 for prEN4199-006**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen
**For prEN4199-004 only: limited validity assuming revised testing requirements as documented in QTR and to be issued with prEN4199-004 P2**

DATE :
DATE : 24 March 2006
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 119** OK
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**Linread Northbridge Leicester**
**Viking Road**
**Wigston**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

**Leicester, LE18 2BL**
**UNITED KINGDOM**

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2583<br>EN2583 | EN2927-060022<br>EN3327-050008 | ESD9146 05.07.2005 / LNL4<br>ESD9147 05.07.2005 / LNL06 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**July 2008**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 01.08.2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 118** 6/L
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **Bristol Industries**
**630 East Lambert Road**
**Brea, CA 92821**
**USA**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3004 | EN2907-050 | ESD9116, 14.06.2005 |
| EN3004 | EN2907-060 | ESD9117, 14.06.2005 |
| EN3005 | EN3013-050 | ESD9118, 14.06.2005 |
| ~~EN3004 and analogy to EN2907-050~~ | EN2909-050 | ESD9119, 14.06.2005 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

June 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 29.06.2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 117** 6/L -
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **SPS Technologies**
**Barkby Road**
**Leicester, LE4 9HX**
**UK**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3686-050036 | EN3685 | ESD9099, 04 March 2005 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

March 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 27 June 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 116** OK
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **Bristol Industries**
**630 East Lambert Road**
**Brea, CA 92821**
**USA**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3004 | EN2911-050 | ESD9109, 11.03.2005 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2008**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 31 May 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 115**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SAS MACH AERO BRETIGNY
2 rue du Roussillon
91220 BRETIGNY SUR ORGE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| AS81820 | AS14101 – AS14102 –<br>AS14103 – AS14104 | Report N°0902/3-A<br>P. HENRY – SNECMA<br>18/02/2010 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**APRIL 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

29 April 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 114** ok

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: **W. L. Gore & Associates GmbH**
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: **Nordring 1**
LIEU DE FABRICATION: **D-91785 Pleinfeld**
HERSTELLUNGSORT: **Germany**

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| prEN4604-001 | En4604-003WZ | PADQ/G01/03 dtd 02.12.2003<br>Including GO-RT-0736 Rev. A |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

December 2006

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: January 11, 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 113 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155 & See the New Appendix for the Qualified part number list | MBR Report N°186 ACP005-Form 2 Date 2013-01-24 &<br>MBR Report N°134 ACP005-Form 2 Date 2013-07-02 for ACP008.<br>Christian Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

01/07/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT

PQ 113 - Appendix 1 for the Qualified part number list

| | STANDARD's PN | SOURIAU's PN |
|---|---|---|
| EN3155-003 | EN3155003F1212 | 85995013900 |
| | EN3155003F1214 | 85997701900 |
| | EN3155003F1614 | 8665163900 |
| | EN3155003F1616 | 85995012900 |
| | EN3155003F2022 | 85997749900 |
| | EN3155003F2222 | 85995015900 |
| EN3155-004 | EN3155004M1212 | 85331035900 |
| | EN3155004M1614 | 85331006900 |
| | EN3155004M1616 | 85331004900 |
| | EN3155004M1618 | 85331008900 |
| | EN3155004M2018 | 85331002900S |
| | EN3155004M2020 | 85331000900S |
| EN3155-005 | EN3155005F1212 | 85331036900 |
| | EN3155005F1614 | 85331007900 |
| | EN3155005F1616 | 85331005900 |
| | EN3155005F1618 | 85331009900 |
| | EN3155005F2018 | 85331012900S |
| | EN3155005F2020 | 85331011900S |
| EN3155-008 | EN3155008M1212 | 85995005900 |
| | EN3155008M1214 | 85997700900 |
| | EN3155008M1614 | 8665160900 |
| | EN3155008M1616 | 85997921900 |
| | EN3155008M2018 | SB20224AEN |
| | EN3155008M2020 | 85995003900 |
| | EN3155008M2022 | 85997743900 |
| | EN3155008M2222 | 85995002900 |
| EN3155-009 | EN3155009F1212 | 85995009900 |
| | EN3155009F1214 | 85999580900 |
| | EN3155009F1614 | 85997748900 |
| | EN3155009F1616 | 85997920900 |
| | EN3155009F2018 | 85990944A900 |
| | EN3155009F2020 | 85995007900 |
| | EN3155009F2222 | 85995006900 |
| EN3155-014 | EN3155014M2018 | 8665164900 ← |
| | EN3155014M2022 | 86652006 |
| EN3155-015 | EN3155015F2018 | 8665165900 |
| | EN3155015F2022 | 86652007A900 |
| EN3155-016 | EN3155016M1212 | SB1227A |
| | EN3155016M1616 | SB1628A |
| | EN3155016M2018 | SB2029 |
| | EN3155016M2222 | SB2230 |
| EN3155-017 | EN3155017F1212 | 3E015M |
| | EN3155017F1216 | 3F015M |
| | EN3155017F1616 | 3C015M |
| | EN3155017F1620 | 3D015M |

New annexe
2015-01-09

# ASD-CERT
## PQ 113 - Appendix 1 for the Qualified part number list

| | STANDARD's PN | SOURIAU's PN |
|---|---|---|
| EN3155-003 | EN3155003F1212 | 85995013900 |
| | EN3155003F1214 | 85997701900 |
| | EN3155003F1614 | 8665163900 |
| | EN3155003F1616 | 85995012900 |
| | EN3155003F2022 | 85997749900 |
| | EN3155003F2222 | 85995015900 |
| EN3155-004 | EN3155004M1212 | 85331035900 |
| | EN3155004M1614 | 85331006900 |
| | EN3155004M1616 | 85331004900 |
| | EN3155004M1618 | 85331008900 |
| | EN3155004M2018 | 85331002900S |
| | EN3155004M2020 | 85331000900S |
| EN3155-005 | EN3155005F1212 | 85331036900 |
| | EN3155005F1614 | 85331007900 |
| | EN3155005F1616 | 85331005900 |
| | EN3155005F1618 | 85331009900 |
| | EN3155005F2018 | 85331012900S |
| | EN3155005F2020 | 85331011900S |
| EN3155-008 | EN3155008M1212 | 85995005900 |
| | EN3155008M1214 | 85997700900 |
| | EN3155008M1614 | 8665160900 |
| | EN3155008M1616 | 85997921900 |
| | EN3155008M2018 | SB20224AEN |
| | EN3155008M2020 | 85995003900 |
| | EN3155008M2022 | 85997743900 |
| | EN3155008M2222 | 85995002900 |
| EN3155-009 | EN3155009F1212 | 85995009900 |
| | EN3155009F1214 | 85999580900 |
| | EN3155009F1614 | 85997748900 |
| | EN3155009F1616 | 85997920900 |
| | EN3155009F2018 | 85990944A900 |
| | EN3155009F2020 | 85995007900 |
| | EN3155009F2222 | 85995006900 |
| EN3155-014 | EN3155014M2018 | 86651649900 |
| | EN3155014M2022 | 86652006 |
| EN3155-015 | EN3155015F2018 | 8665165900 |
| | EN3155015F2022 | 86652007A900 |
| EN3155-016 | EN3155016M1212 | SB1227A |
| | EN3155016M1616 | SB1628A |
| | EN3155016M2018 | SB2029 |
| | EN3155016M2222 | SB2230 |
| EN3155-017 | EN3155017F1212 | 3E015M |
| | EN3155017F1216 | 3F015M |
| | EN3155017F1616 | 3C015M |
| | EN3155017F1620 | 3D015M |

ASD-CERT
Certification of Aerospace Standard Products

# ASD-CERT
## PQ 113 - Appendix 1 for the Qualified part number list

| | STANDARD's PN | SOURIAU's PN |
|---|---|---|
| EN3155-018 | EN3155018M1212 | 85261350 |
| | EN3155018M1218 | 85265041 |
| | EN3155018M1614 | 85226179A |
| | EN3155018M1616 | 85261349 |
| | EN3155018M1618 | 85264175 |
| | EN3155018M2018 | 85222349A |
| | EN3155018M2020 | 85261348 |
| | EN3155018M2022 | 85257256900 |
| EN3155-019 | EN3155019F1212 | 85261347A900 |
| | EN3155019F1218 | 85265591A900 |
| | EN3155019F1614 | 85226180B900 |
| | EN3155019F1616 | 85261346A900 |
| | EN3155019F1618 | 85264176 |
| | EN3155019F2018 | 8520292 |
| | EN3155019F2020 | 85261344900 |
| | EN3155019F2022 | 85257750900 |
| EN3155-026 | EN3155026M1212 | 8667C0112R02A01 |
| | EN3155026M1616 | 8667C0116R02A01 |
| | EN3155026M2020 | 8667C0120R02A01 |
| | EN3155026M2222 | 8667C0122R04A01 |
| EN3155-027 | EN3155027F1212 | 8667C0312R03A01 |
| | EN3155027F1616 | 8667C0316R02A01 |
| | EN3155027F2020 | 8667C0320R02A01 |
| | EN3155027F2222 | 8667C0322R02A01 |
| EN3155-044 | EN3155044M2022 | 85331019900 |
| EN3155-045 | EN3155045F2022 | 85331018900 |
| EN3155-046 | EN3155046M2022 | 85997908900 |
| EN3155-047 | EN3155047F2022 | 85997909 |
| EN3155-054 | EN3155054M2020 | 8522876 |
| EN3155-055 | EN3155055F2020 | 8522878900 |
| EN3155-056 | EN3155056M2020 | 8522875 |
| EN3155-057 | EN3155057F2020 | 8522877900 |
| EN3155-074 | EN3155074M08 | ETH1-1351A |
| | EN3155074M08A | ETH1-1345A |
| EN3155-075 | EN3155075F08 | ETH1-1352A |
| | EN3155075F08A | ETH1-1346A |

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 113 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE<

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155 & See Appendix for the Qualified part number list | MBR Report N°186 ACP005-Form 2<br>Date 2013-01-24<br>Christian Mazelle, SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

01/07/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 113 - Appendix 1 for the Qualified part number list

| | Standard's PN | SOURIAU's PN |
|---|---|---|
| EN3155-003 | EN3155003F1212 | 85990913900 |
| | EN3155003F1214 | 85997701900 |
| | EN3155003F1614 | 8665163900 |
| | EN3155003F1616 | 85990912900 |
| | EN3155003F2022 | 85997749900 |
| | EN3155003F2222 | 85990940900 |
| EN3155-004 | EN3155004M1212 | 85331035900 |
| | EN3155004M1614 | 85331006900 |
| | EN3155004M1616 | 85331004900 |
| | EN3155004M1618 | 85331008900 |
| | EN3155004M2018 | 85331002900 |
| | EN3155004M2020 | 85331000900 |
| EN3155-005 | EN3155005F1212 | 85331036900 |
| | EN3155005F1614 | 85331007900 |
| | EN3155005F1616 | 85331005900 |
| | EN3155005F1618 | 85331009900 |
| | EN3155005F2018 | 85331012900 |
| | EN3155005F2020 | 85331011900 |
| EN3155-008 | EN3155008M1212 | 85990905900 |
| | EN3155008M1214 | 85997700900 |
| | EN3155008M1614 | 8665160900 |
| | EN3155008M1616 | 85997921900 |
| | EN3155008M2018 | SB20224EN |
| | EN3155008M2020 | 85990903A900S |
| | EN3155008M2022 | 85997743900 |
| | EN3155008M2222 | 85990902900S |
| EN3155-009 | EN3155009F1212 | 85990909900 |
| | EN3155009F1214 | 85999580900 |
| | EN3155009F1614 | 85997748900 |
| | EN3155009F1616 | 85997920900 |
| | EN3155009F2018 | 85990944A900 |
| | EN3155009F2020 | 85990907900S |
| | EN3155009F2222 | 85990906A900S |
| EN3155-014 | EN3155014M2018 | 8665164900 |
| | EN3155014M2022 | 86652006 |
| EN3155-015 | EN3155015F2018 | 8665165900 |
| | EN3155015F2022 | 86652007 |
| EN3155-016 | EN3155016M1212 | SB1227 |
| | EN3155016M1616 | SB1628 |
| | EN3155016M2018 | SB2029 |
| | EN3155016M2222 | SB2230 |
| EN3155-017 | EN3155017F1212 | 3E015M |
| | EN3155017F1216 | 3F015M |
| | EN3155017F1616 | 3C015M |
| | EN3155017F1620 | 3D015M |

ASD-CERT
Certification of Aerospace Standard Products

# ASD-CERT
## PQ 113 - Appendix 1 for the Qualified part number list

| | Standard's PN | SOURIAU's PN |
|---|---|---|
| EN3155-018 | EN3155018M1212 | 85261350 |
| | EN3155018M1218 | 85265041 |
| | EN3155018M1614 | 85226179A |
| | EN3155018M1616 | 85261349 |
| | EN3155018M1618 | 85264175 |
| | EN3155018M2018 | 85222349A |
| | EN3155018M2020 | 852661348 |
| | EN3155018M2022 | 85257256900 |
| EN3155-019 | EN3155019F1212 | 85261347A900 |
| | EN3155019F1218 | 85265591A900 |
| | EN3155019F1614 | 85226180B900 |
| | EN3155019F1616 | 85261346A900 |
| | EN3155019F1618 | 85264176 |
| | EN3155019F2018 | 8520292 |
| | EN3155019F2020 | 85261344900 |
| | EN3155019F2022 | 85257750900 |
| EN3155-026 | EN3155026M1212 | 8667C0112R01A01 |
| | EN3155026M1616 | 8667C0116R01A01 |
| | EN3155026M2020 | 8667C0120R01A01 |
| | EN3155026M2222 | 8667C0122R04A01 |
| EN3155-027 | EN3155027F1212 | 8667C0312R01A01 |
| | EN3155027F1616 | 8667C0316R01A01 |
| | EN3155027F2020 | 8667C0320R01A01 |
| | EN3155027F2222 | 8667C0322R01A01 |
| EN3155-044 | EN3155044M2022 | 85331019900 |
| EN3155-045 | EN3155045F2022 | 85331018900 |
| EN3155-046 | EN3155046M2022 | 85997908900 |
| EN3155-047 | EN3155047F2022 | 85997909 |
| EN3155-054 | EN3155054M2020 | 8522876 |
| EN3155-055 | EN3155055F2020 | 8522878900 |
| EN3155-056 | EN3155056M2020 | 8522875 |
| EN3155-057 | EN3155057F2020 | 8522877900 |
| EN3155-074 | EN3155074M08 | ETH1-1351A |
| | EN3155074M08A | ETH1-1049A-C |
| EN3155-075 | EN3155075F08 | ETH1-1352A |
| | EN3155075F08A | ETH1-1048A-C |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 113** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | See Appendix | JQP 2008-092 revC - 17/02/2010<br>JQP2008-098 revC - 17/02/2010<br>P. TERRIER - BNAE - C. MAZELLE - SNECMA |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

29 April 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, +33 1 47 65 70 18

# APPENDIX : List of qualified products

| | Standard's PN | SOURIAU's PN |
|---|---|---|
| EN3155-003 | EN3155003F1212 | 85990913900 |
| | EN3155003F1214 | 85997701900 |
| | EN3155003F1614 | 8665163900 |
| | EN3155003F1616 | 85990912900 |
| | EN3155003F2022 | 85997749900 |
| | EN3155003F2222 | 85990940900 |
| EN3155-004 | EN3155004M1212 | 85331035900 |
| | EN3155004M1614 | 85331006900 |
| | EN3155004M1616 | 85331004900 |
| | EN3155004M1618 | 85331008900 |
| | EN3155004M2018 | 85331002900 |
| | EN3155004M2020 | 85331000900 |
| EN3155-005 | EN3155005F1212 | 85331036900 |
| | EN3155005F1614 | 85331007900 |
| | EN3155005F1616 | 85331005900 |
| | EN3155005F1618 | 85331009900 |
| | EN3155005F2018 | 85331012900 |
| | EN3155005F2020 | 85331011900 |
| EN3155-008 | EN3155008M1212 | 85990905900 |
| | EN3155008M1214 | 85997700900 |
| | EN3155008M1614 | 8665160900 |
| | EN3155008M1616 | 85997921900 |
| | EN3155008M2018 | SB20224EN |
| | EN3155008M2020 | 85990903A900S |
| | EN3155008M2022 | 85997743900 |
| | EN3155008M2222 | 85990902900S |
| EN3155-009 | EN3155009F1212 | 85990909900 |
| | EN3155009F1214 | 85999580900 |
| | EN3155009F1614 | 85997748900 |
| | EN3155009F1616 | 85997920900 |
| | EN3155009F2018 | 85990944A900 |
| | EN3155009F2020 | 85990907900S |
| | EN3155009F2222 | 85990906A900S |
| EN3155-014 | EN3155014M2018 | 8665164900 |
| | EN3155014M2022 | 86652006 |
| EN3155-015 | EN3155015F2018 | 8665165900 |
| | EN3155015F2022 | 86652007 |
| EN3155-016 | EN3155016M1212 | SB1227 |
| | EN3155016M1616 | SB1628 |
| | EN3155016M2018 | SB2029 |
| | EN3155016M2222 | SB2230 |
| EN3155-017 | EN3155017F1212 | 3E015M |
| | EN3155017F1216 | 3F015M |
| | EN3155017F1616 | 3C015M |
| | EN3155017F1620 | 3D015M |

| | | |
|---|---|---|
| EN3155-018 | EN3155018M1212 | 85261350 |
| | EN3155018M1218 | 85265041 |
| | EN3155018M1614 | 85226179A |
| | EN3155018M1616 | 85261349 |
| | EN3155018M1618 | 85264175 |
| | EN3155018M2018 | 85222349A |
| | EN3155018M2020 | 852661348 |
| | EN3155018M2022 | 85257256900 |
| EN3155-019 | EN3155019F1212 | 85261347A900 |
| | EN3155019F1218 | 85265591A900 |
| | EN3155019F1614 | 85226180B900 |
| | EN3155019F1616 | 85261346A900 |
| | EN3155019F1618 | 85264176 |
| | EN3155019F2018 | 8520292 |
| | EN3155019F2020 | 85261344900 |
| | EN3155019F2022 | 85257750900 |
| EN3155-026 | EN3155026M1212 | 8667C0112R01A01 |
| | EN3155026M1616 | 8667C0116R01A01 |
| | EN3155026M2020 | 8667C0120R01A01 |
| | EN3155026M2222 | 8667C0122R04A01 |
| EN3155-027 | EN3155027F1212 | 8667C0312R01A01 |
| | EN3155027F1616 | 8667C0316R01A01 |
| | EN3155027F2020 | 8667C0320R01A01 |
| | EN3155027F2222 | 8667C0322R01A01 |
| EN3155-044 | EN3155044M2022 | 85331019900 |
| EN3155-045 | EN3155045F2022 | 85331018900 |
| EN3155-046 | EN3155046M2022 | 85997908900 |
| EN3155-047 | EN3155047F2022 | 85997909 |
| EN3155-054 | EN3155054M2020 | 8522876 |
| EN3155-055 | EN3155055F2020 | 8522878900 |
| EN3155-056 | EN3155056M2020 | 8522875 |
| EN3155-057 | EN3155057F2020 | 8522877900 |
| EN3155-074 | EN3155074M08A | ETH1-1049A-C/ETH1-1345A |
| EN3155-075 | EN3155075F08A | ETH1-1048A-C/ETH1-1346A |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 112** OK

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: **RIBE Verbindungstechnik GmbH & Co. KG**
NOM DE SOCIETE: **Fastening Systems**
FIRMA: **Business Unit: Aerospace, Motor Sport & Prototype Production**

PLACE OF MANUFACTURE: **Bahnhofstrasse 8-16**
LIEU DE FABRICATION: **D-91126 Schwabach**
HERSTELLUNGSORT: **Germany**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| DIN 65 149 | LN 65 022 – 03 16 | EM-7288<br>19/04/2004 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**April 2007**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: May 27, 2004
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 111 renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI / BLANC AERO INDUSTRIES
18 Rue Jean Vaurs – BP 298
F-12202 Villefranche de Rouergue Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

ASD-CERT
Certification of Aerospace Standard Products
– ORIGINAL COPY –

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004<br>EN3005<br>EN3152<br>ISO 8641 | EN2909-070<br>EN3013-060<br>EN3196-060<br>EN3843-060 | Original reports :<br>GP/DJ/17 751<br>GP/DJ/18 255 - 06/01/04<br>GP/DJ/18 295 - 13/01/04<br>GP/DJ/18 274 - 08/01/04<br>+ CPMO_2007-002 19-02-07 and letter GP/SC/20548 16-03-07 : Francis Guerrier (Turboméca) |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE / DATE / DATUM : 26 April 2007

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

AECMA-CERT
AEROSPACE INDUSTRIES - CERTIFICATION
Belgium
Tel. (32) 2 775 8110
Fax (32) 2 775 8111

DRAFT

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 111** 0/c

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: LISI / BLANC AERO INDUSTRIES
Rue Jean Vaurs
F-12200 Villefranche de Rouergue
France

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| prEN3152<br>EN3005<br>ISO 8641<br>EN 3004 | EN3196-060<br>EN3013-060<br>EN3843-060<br>EN2909-070 | GP/DJ No 18 295 – 13/01/04<br>GP/DJ No 18 255 – 06/01/04<br>GP/DJ No 18 274 – 08/01/04<br>GP/DJ No 17 751 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JANUARY 2007

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: March 9th, 2004
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 110 (Partially renewal)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2911-050 | EF/GP/DJ 22 299 - 18/06/2009<br>Michel Capblancq - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**FEBRUARY 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 8 February 2010
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 110 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
18 Rue Jean Vaurs - BP 298
F-12202 Villefranche de Rouergue Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

ASD-CERT
Certification of Aerospace Standard Products
– IAL COPY –

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | See attachment | CPMO_2007-002 19-02-07 and letter GP/SC/20548 16-03-07 : Francis Guerrier (Turboméca)<br>See attachment for original reports and dates |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 26 April 2007

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

**Attachment to ASD-CERT PQ 110, Lisi Blanc Aero Industries, Qualified Products List**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN2413 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 060 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN2549 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN2859 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN2870 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN2873 | 050 | by analogy to EN2859 | ISO 9154 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN2874 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN2906 | 050 | C8 No 0130 issue 1 06/90 | EN3004 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN2907 | 060 | C8 No 0127 issue 1 05/90 | EN3004 |
| | 070 | C8 No 0128 issue 1 05/90 | |
| | 100 | BAI No JPC/GP/15364 29/02/00 | |
| EN2909 | 050 | C8 No 0127 issue 1 05/90 | EN3004 |
| | 060 | C8 No 0128 issue 1 05/90 | |

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**Attachment to ASD-CERT PQ 110, Lisi Blanc Aero Industries, Qualified Products List**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN2911 | 050<br>060<br>070<br>080 | BAI No JPC/GP/12173 02/97<br>C8 No 0005, 0011 issue 1 09/89<br>"<br>" | EN3004 |
| EN2925 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0117, 0118 issue 1 04/90<br>"<br>"<br>"<br>"<br>" | EN2576 |
| EN2926 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0117, 0118 issue 1 04/90<br>"<br>"<br>"<br>"<br>" | EN2576 |
| EN2927 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0119, 0121 issue 1 04/90<br>"<br>"<br>"<br>"<br>" | EN2583 |
| EN2928 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0119, 0121 issue 1 04/90<br>"<br>"<br>"<br>"<br>" | EN2583 |
| EN2929 | 050<br>060<br>070<br>080<br>100 | C8 No 0094 0095, 0096 issue 1 12/89"<br>"<br>"<br>"<br>" | EN2582 |
| EN2930 | 050<br>060<br>070<br>080<br>100 | C8 No 0094 0095, 0096 issue 1 12/89<br>"<br>"<br>"<br>" | EN2582 |
| EN2933 | 050<br>060<br>070 | C8 No 0119, 0121 issue 1 04/90<br>"<br>" | EN2583 |
| EN2935 | 050<br>060<br>070 | C8 No 0094 0095, 0096 issue 1 12/89<br>"<br>" | EN2582 |
| EN3006 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0117, 0118 issue 1 04/90<br>"<br>"<br>"<br>"<br>" | EN2576 |

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**Attachment to ASD-CERT PQ 110, Lisi Blanc Aero Industries, Qualified Products List**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN3007 | 050 | C8 No 0117, 0118 issue 1 04/90 | EN2576 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3008 | 050 | C8 No 0119, 0121 issue 1 04/90 | EN2583 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3009 | 050 | C8 No 0119, 0121 issue 1 04/90 | EN2583 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3010 | 050 | C8 No 0094, 0095, 0096 issue 1 12/89 | EN2582 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| EN3011 | 050 | C8 No 0094, 0095, 0096 issue 1 12/89 | EN2582 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| EN3013 | 050 | Size 050 included in re-certification 07/2003 | EN3005 |
| | 070 | Size 070 included in re-certification 07/2003 | |
| | 100 | Size 100: BAI No JPC/GP/9665 | |
| EN3035 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3037 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |

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| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN3052 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 8168 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3063 | 050 | C8 No 0094 0095, 0096 issue 1 12/89 | EN2582 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| EN3293 | 050 | C8 No 0119, 0121 issue 1 04/90 | EN2583 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| EN3294 | 050 | C8 No 0094 0095, 0096 issue 1 12/89 | EN2582 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| EN3303 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3327 | 050 | C8 No 0119, 0121 issue 1 04/90 | EN2583 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3379 | 050 | C8 No 0094 0095, 0096 issue 1 12/89 | EN2582 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| EN3381 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| | 160 | Size 160: BAI No GP/DJ/16116, 30/01/2001 | |

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| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN3444 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3543 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 8168 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3614 | 050 | C8 No 0117, 0118 issue 1 04/90 | EN2576 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| EN3637 | 060 | Size 060: Turbomeca C8 161 | EN3005 |
| | 120 | Size 120: JPC/GP/12345 04/97 | |
| EN3672 | 060 | Turbomeca C8 162 | EN3005 |
| EN3686 | 050 | by analogy to EN2925 | EN2576 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3687 | 050 | by analogy to EN2925 | EN2576 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3724 | 050 | by analogy to EN2549 | EN3818 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3725 | 040 | by analogy to EN4074 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| EN3740 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 060 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |

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| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN3820 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3832 | 050 | by analogy to EN2927 | EN2583 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN3912 | 050 | BAI No JPC/GP/15837 02/06/00 | PrEN3685 |
| EN4071 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4072 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4073 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4074 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4116 | 040 | Size 040 included in re-certification 07/2003 | EN3152 |
| | 050 | Size 050 included in re-certification 07/2003 | |
| | 060 | Size 060: BAI No JPC/GP/10457 | |
| | 100 | Size 100 included in re-certification 07/2003 | |
| EN4118 | 060 | by analogy to EN2907 | EN3004 |
| | 070 | " | |
| EN4119 | 060 | by analogy to EN2907 | EN3004 |
| | 070 | " | |
| EN4120 | 050 | Size 050: BAI No JPC/GP/9907 | EN3005 |
| | 060 | Size 060: BAI No JPC/GP/9908 | |

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| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN4121 | 070 | by analogy to EN2911 | EN3004 |
| | 080 | " | |
| EN4124 | 050 | BAI No JPC/GP/10456 | EN3005 |
| EN4127 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4128 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4129 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4130 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4131 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4132 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |

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**Attachment to ASD-CERT PQ 110, Lisi Blanc Aero Industries, Qualified Products List**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN4133 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4134 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4135 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4136 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4137 | 070 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4138 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4161 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |

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**Attachment to ASD-CERT PQ 110, Lisi Blanc Aero Industries, Qualified Products List**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN4162 | 030 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 040 | " | |
| | 050 | " | |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4163 | 050 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4178 | 040 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| | 050 | " | |
| | 060 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4321 | 050 | by analogy to EN2927 | EN2583 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4322 | 050 | by analogy to EN2549 | EN3818 |
| | 060 | " | |
| | 070 | " | |
| | 080 | " | |
| | 100 | " | |
| | 120 | " | |
| EN4323 | 040 | by analogy to EN4178 | EN3818 |
| | 050 | " | |
| | 060 | " | |
| EN4495 | 060 | GP/DJ/16553, 09/07/01 | ISO 9152 |
| EN4496 | 040 | GP/DJ/16657, 14/06/01 | ISO 9152 |

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AECMA-CERT
AEROSPACE INDUSTRIES - CERTIFICATION
Belgium
Tel. (32) 2 775 8110
Fax (32) 2 775 8111

DRAFT

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 110** 0% |

**This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller**

**COMPANY NAME:**
**NOM DE SOCIETE:**
**FIRMA:**

LISI / BLANC AERO INDUSTRIES
Rue Jean Vaurs
F-12200 Villefranche de Rouergue
France

**PLACE OF MANUFACTURE:**
**LIEU DE FABRICATION:**
**HERSTELLUNGSORT:**

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| **Applicable standard**<br>**Norme applicable**<br>**Zutreffende Norm** | **Products**<br>**Produits**<br>**Erzeugnisse** | **Report N°./Issue/Date** |
|---|---|---|
| See attachment | See attachment | See attachment |

**This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis**

SEPTEMBER 2006

**except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.**

**DATE:**
**DATE:** February, 18th, 2004
**DATUM:**

**PLACE:**
**A:** Brussels
**ORT:**

**SIGNATURE:**
**SIGNATURE:**
**UNTERSCHRIFT:**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 2413 | 050<br>060<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 2549 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 2859 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 2870 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 2873 | 050<br>060<br>070<br>080<br>100<br>120 | by analogy to EN 2859 | ISO 9154 |
| EN 2874 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| EN 2906 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0130 issue 1 06/90 | EN 3004 |
| EN 2907 | 060<br>070<br>100 | C8 No 0127, 0128 issue 1 05/90<br><br>Size 100: BAI No JPC/GP/15364 29/02/00 | EN 3004 |
| EN 2909 | 050<br>060 | C8 No 0127, 0128 issue 1 05/90 | EN 3004 |

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 2911 | 050<br>060<br>070<br>080 | Size 050: BAI No JPC/GP/12173 02/97<br>C8 No 0005, 0011 issue 1 09/89 | EN 3004 |
| EN 2925 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0117, 0118 issue 1 04/90 | EN 2576 |
| EN 2926 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0117, 0118 issue 1 04/90 | EN 2576 |
| EN 2927 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0119, 0121 issue 1 04/90 | EN 2583 |
| EN 2928 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0119, 0121 issue 1 04/90 | EN 2583 |
| EN 2929 | 050<br>060<br>070<br>080<br>100 | C8 No 0094 0095, 0096 issue 1 12/89 | EN 2582 |
| EN 2930 | 050<br>060<br>070<br>080<br>100 | C8 No 0094 0095, 0096 issue 1 12/89 | |
| EN 2933 | 050<br>060<br>070 | C8 No 0119, 0121 issue 1 04/90 | EN 2583 |
| EN 2935 | 050<br>060<br>070 | C8 No 0094 0095, 0096 issue 1 12/89 | |
| EN 3006 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0117, 0118 issue 1 04/90 | EN 2576 |

signed on behalf of AECMA-CERT:

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 3007 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0117, 0118 issue 1 04/90 | EN 2576 |
| EN 3008 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0119, 0121 issue 1 04/90 | EN 2583 |
| EN 3009 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0119, 0121 issue 1 04/90 | EN 2583 |
| EN 3010 | 050<br>060<br>070<br>080<br>100 | C8 No 0094, 0095, 0096 issue 1 12/89 | EN 2582 |
| EN 3011 | 050<br>060<br>070<br>080<br>100 | C8 No 0094, 0095, 0096 issue 1 12/89 | EN 2582 |
| EN 3013 | 050<br>070<br>100 | Size 050 included in re-certification 07/2003<br>Size 070 included in re-certification 07/2003<br>Size 100: BAI No JPC/GP/9665 | EN 3005 |
| EN 3035 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 3037 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 3052 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 8168 |
| EN 3063 | 050<br>060<br>070<br>080<br>100 | C8 No 0094 0095, 0096 issue 1 12/89 | EN 2582 |
| EN 3293 | 050<br>060<br>070<br>080<br>100 | C8 No 0119, 0121 issue 1 04/90 | EN 2583 |
| EN 3294 | 050<br>060<br>070<br>080<br>100 | C8 No 0094 0095, 0096 issue 1 12/89 | EN 2582 |
| EN 3303 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 3327 | 050<br>060<br>070<br>080<br>100<br>120 | C8 No 0119, 0121 issue 1 04/90 | EN 2583 |
| EN 3379 | 050<br>060<br>070<br>080<br>100 | C8 No 0094 0095, 0096 issue 1 12/89 | EN 2582 |
| EN 3381 | 040<br>050<br>060<br>070<br>080<br>100<br>120<br>160 | Dassault Aviation DGQT/ST 961873 20/12/96<br><br><br><br><br><br><br>Size 160: BAI No GP/DJ/16116, 30/01/01 | ISO 9152 |

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 3444 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| EN 3543 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 8168 |
| EN 3614 | 050<br>060<br>070<br>080 | C8 No 0117, 0118 issue 1 04/90 | EN 2576 |
| EN 3637 | 060<br>120 | Size 060: Turbomeca C8 161<br>Size 120: JPC/GP/12345 04/97 | EN 3005 |
| EN 3672 | 060 | Turbomeca C8 162 | EN 3005 |
| EN 3686 | 050<br>060<br>070<br>080<br>100<br>120 | by analogy to EN 2925 | EN 2576 |
| EN 3687 | 050<br>060<br>070<br>080<br>100<br>120 | by analogy to EN 2925 | EN 2576 |
| EN 3724 | 050<br>060<br>070<br>080<br>100<br>120 | by analogy to EN 2549 | PrEN 3818 |
| EN 3725 | 040<br>050<br>060<br>070<br>080 | by analogy to EN 4074 | ISO 9152 |
| EN 3740 | 050<br>060<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |

signed on behalf of AECMA-CERT:

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 3820 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 3832 | 050<br>060<br>070<br>080<br>100<br>120 | by analogy to EN 2927 | EN 2583 |
| EN 3912 | 050 | BAI No JPC/GP/15837 02/06/00 | PrEN 3685 |
| EN 4071 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4072 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4073 | 030<br>040<br>050<br>060<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 4074 | 040<br>050<br>060<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4116 | 040<br>050<br>060<br>100 | Size 040 included in re-certification 07/2003<br>Size 050 included in re-certification 07/2003<br>Size 060: BAI No JPC/GP/10457<br>Size 100 included in re-certification 07/2003 | EN 3152 |
| EN 4118 | 060<br>070 | by analogy to EN 2907 | EN 3004 |
| EN 4119 | 060<br>070 | by analogy to EN 2907 | EN 3004 |
| EN 4120 | 050<br>060 | Size 050: BAI No JPC/GP/9907<br>Size 060: BAI No JPC/GP/9908 | EN 3005 |

signed on behalf of AECMA-CERT:

**Attachment to AECMA-CERT PQ 110, Lisi Blanc Aero Industries, Qualified Products List**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 4121 | 070<br>080 | by analogy to EN 2911 | EN 3004 |
| EN 4124 | 050 | BAI No JPC/GP/10456 | EN 3005 |
| EN 4127 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4128 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| EN 4129 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 4130 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4131 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| EN 4132 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |

**Attachment to AECMA-CERT PQ 110, Lisi Blanc Aero Industries, Qualified Products List**

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 4133 | 040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4134 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9154 |
| EN 4135 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4136 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 4137 | 070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4138 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 4161 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |

signed on behalf of AECMA-CERT:

| Product | Size | Original Report + Date | Applicable Standard |
|---|---|---|---|
| EN 4162 | 030<br>040<br>050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 4163 | 050<br>060<br>070<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 7689 |
| EN 4178 | 040<br>050<br>060<br>080<br>100<br>120 | Dassault Aviation DGQT/ST 961873 20/12/96 | ISO 9152 |
| EN 4321 | 050<br>060<br>070<br>080<br>100<br>120 | by analogy to EN 2927 | EN 2583 |
| EN 4322 | 050<br>060<br>070<br>080<br>100<br>120 | by analogy to EN 2549 | PrEN 3818 |
| EN 4323 | 040<br>050<br>060 | by analogy to EN 4178 | PrEN 3818 |
| EN 4495 | 060 | GP/DJ/16553, 09/07/01 | ISO 9152 |
| EN 4496 | 040 | GP/DJ/16657, 14/06/01 | ISO 9152 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 109**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SACS GmbH
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Stuttgarter Strasse 50
LIEU DE FABRICATION: D-78628 Rottweil
HERSTELLUNGSORT: Germany

has met the requirements of EN 3042 in respect of the following standards:
a satisfait les exigences de l'EN 3042 en ce qui concerne les normes suivantes:
die Forderungen der EN 3042 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| LN29540<br>DIN65112 | LN29540A03<br>LN29540B03 | QTR03002 & QS 01004<br>24.01.04 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**JANUARY 2007**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 28 January 2004
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 108**
**ZERTIFIKAT NR.**

List of certified parts:

## PQ 108 Draka-Fileca

| Applicable Standard | Product identification | Report No |
|---|---|---|
| EN 2084 | EN 2267-009<br>EN 2267-010 | No 900526 (OE FE02112)<br>No 900530 (OE FE02107)<br>No 900532 (OE FE02109)<br>No 900521 (OE FE2108)<br>18/09/03 |
| EN 2235 | EN 2714-013 | No 900562 (OE FE02111)<br>No 900563 (OE FE02110)<br>No 900552 (OE FE02113)<br>01/07/03 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 108**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: DRAKA-FILECA

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: RN1 – 60730 Saint Geneviève France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2084 | EN 2267-009<br>EN 2267-010 | See attachment |
| EN 2235 | EN 2714-013 | |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**SEPTEMBER 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 24 November 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 107**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

NEXANS

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

146- Rue E. Delacroix BP 1 -
F-91211 Draveil
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2084 | EN 2267-009<br>EN 2267-010 | LQ No 1142A/02, LQ No 1143A/02<br>LQ No 1155A/02, LQ No 1075/03 |
| EN 2235 | EN 2714-013 | LQ No 1145A/02, LQ No 1154/03<br>LQ No 1036A/03, LQ No 1035A/03<br>LQ No 1030A/03 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**September 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

23 October 2003

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Guilledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 106**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: RIBE Verbindungstechnik GmbH & CO. KG

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: Bahnhofstrasse 8 – 16
D-91126 Schwabach
Germany

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| LN 65 010<br>DIN 65 058<br>DIN 65 149 | LN 9037 – 12 090<br>LN 29 949 – 05 012<br>LN 9038 – 03 010 | E-6316 15.07.03<br>E-6325 15.07.03<br>E-6455 07.08.03 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**July 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 2 October 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 105** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: LINREAD NORTHBRIDGE
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Crossgate Road
LIEU DE FABRICATION: Park Farm, Redditch
HERSTELLUNGSORT: Worcestershire, B98 TD
UK

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2859-080021 | EN 2859-070, -080, -100 | QR0080/MET/EC<br>22.01.2003 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**September 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 23 September 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 104 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
AMPHENOL AEROSPACE OPERATIONS
40-60 Delaware Street
Sidney, New York 13838-1395
USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
AMPHENOL Aerospace, Nogales, Sonora, Mexico

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-001 , EN 2997-003<br>EN2997-004, EN 2997-008<br>Class S, SE, K, KE | ESD 9381 - February 2009<br>Michael Stock - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
17 March 2009

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 104** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **AMPHENOL AEROSPACE/Pyle-National Connectors**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: Amphenol Corp., Optimize Manufacturing Co., 180N Freeport Dr. W-10, Nogales AZ 85621 U.S.A.

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2997-001, -003, -004, -008 | Classes K, KE, S and SE | Hispano-Suiza – NoDG/HSR 03-253 02.06.2003 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**June 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 12 September 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 103**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**ALCOA Fastening Systems – Torrance Operations**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

Aerospace Products
3000 West Lomita Blvd
Torrance, CA 90505
U.S.A.

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3899 | EN 3831-050<br><br>EN 3831-070 | No 2265<br>28.07.2003<br>No 2271<br>25.08.03 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**July 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

20 August 2003

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 102**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **LISI / BLANC AERO INDUSTRIES**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: Rue Jean Vaurs
F-12200 Villefranche de Rouergue
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3005 | EN 3013-080 | GP/DJ No 17 751<br>25/03/2002 |
| EN 4047 | EN 4011-100 | GP/DJ No 17 753<br>28/03/2003 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20 August 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 101**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **ALCOA Fastening Systems – Torrance Operations**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: Aerospace Products
3000 West Lomita Blvd
Torrance, CA 90505
U.S.A.

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3899 | EN3831-060<br>EN3831-080<br>EN3831-100 | ESD 9058<br>ESD 9060 24.03.03<br>No 2275 17.12.03 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**April 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 19 January 2004
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 100 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2906-050<br>EN2906-070 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

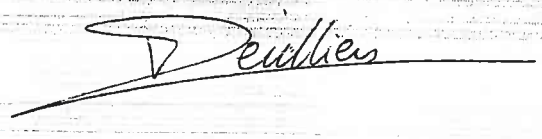
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 100**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: SPS TECHNOLOGIES (T.J. Brooks Division)

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 191 Barkby Road
Troon Industrial Area
Leicester, LE4 9HX
England

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3004 | EN 2906-050<br>EN 2906-070 | ESD 9011<br>23 July 2002<br>ESD 9080<br>11.12.2003 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 19 January 2004

PLACE:
A:
ORT: Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 099 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN2549-080 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

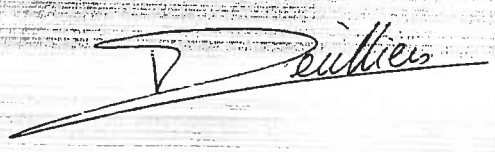
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 11 May 2009
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 099**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**SPS TECHNOLOGIES (T.J. Brooks Division)**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

**191 Barkby Road**
**Troon Industrial Area**
**Leicester, LE4 9HX**
**England**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 9152 | EN 2549-080024 | ESD 8999<br>23 July 2002 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE.
DATE:
DATUM:

5 March 2003

PLACE:
A:
ORT:

Brussels

SIGNATURE.
SIGNATURE:
UNTERSCHRIFT.

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 098 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO7689 | EN2859-040<br>EN2859-050<br>EN2859-060 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis.

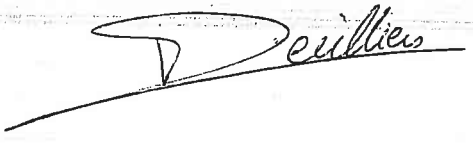
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 098**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: SPS TECHNOLOGIES (T.J. Brooks Division)

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 191 Barkby Road
Troon Industrial Area
Leicester, LE4 9HX
England

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 7689 | EN 2859-050 all lengths<br>By analogy EN 2859-040 & EN 2859-060 all lengths | RR doc. ESC 8958 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE
DATE:
DATUM: 5 March 2003

PLACE:
A:
ORT: Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 97 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
2701 South Harbour Boulevard
Santa Ana
California 92704, USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN3236-060<br>EN3237-060 (by analogy) | ESD9305 16-03-2007<br>Keith Allen, Rolls-Royce<br>originally ESD9022 - August 2002 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

26 March 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**
**PQ 097**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: SPS TECHNOLOGIES

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 2701 South Harbour Blvd
Santa Ana
California 92702
U.S.A.

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3297 | EN 3237-060 &<br>EN 3236-060 by analogy | ESD 9022<br>9 Aug. 2002 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 25 February 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 096 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3299 | EN3728-039<br>EN4396-039 | ESD9376, Keith Allen, Rolls-Royce, August 2008 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

19 August 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Guilledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 096**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **ALCOA Fastening Systems - Simmonds**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: Fairchild Fasteners St. Cosme Operations
9 rue des Cressonières
F-72110 St. Cosme en Vairais
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 4396-039 & | Shaft nuts, self-locking, in heat resisting steel, silver plated | No 5241<br>31.01.2003 |
| EN 3728-039 (by analogy) | Shaft nuts, self-locking, left-hand tread, in heat resisting steel, silver plated | |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE.
DATE: 25 February 2003
DATUM

PLACE.
A: Brussels
ORT:

SIGNATURE:
SIGNATURE.
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 095**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: RIBE Verbindungstechnik GmbH & CO. KG
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Bahnhofstrasse 8 – 16
LIEU DE FABRICATION: D-91126 Schwabach
HERSTELLUNGSORT: Germany

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ~~LN 9439 M 5 x 16~~<br>LN 9136 – 06 014<br>LN 9136 – 04 008<br>LN 9038 – 05 014 | Fasteners | ~~E-6323 27.01.03~~<br>E-6320 16.01.03<br>E-6319 16.01.03<br>E-6317 19.12.02 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 19 February 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gachelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 094**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **ALCOA Fastening Systems - Simmonds**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 9, Rue des Cressonnières – BP5
F-72110 St. Cosme en Vairais
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached sheet | Aerospace nuts | BAe-WDO-LTR-EFA-181473<br>08.09.2000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM 7 February 2003

PLACE:
A:
ORT: Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 093**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**AMPEP PLC**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

108 Strode Road
Clevedon
Somerset
BS21 6QQ
United Kingdom

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2755 | EN 2584 size 05 to 50<br>EN 2585 size 05 to 55<br>EN 3048 size 12 to 50 | ARD 356 & 357<br>30/04/2002 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

20 January 2003

PLACE:
A.
ORT.

Brussels

SIGNATURE
SIGNATURE.
UNTERSCHRIFT

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 092**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **SCHAUBLIN S.A.**
FIRMA:

PLACE OF MANUFACTURE: **CH-2800 Delemont**
LIEU DE FABRICATION: **Switzerland**
HERSTELLUNGSORT:

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| **AS81820** | **AS14101**<br>**AS14102**<br>**AS14103**<br>**AS14104** | **No 97-1015 rev 01.10.01** |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: **20 January 2003**
DATUM:

PLACE:
A: **Brussels**
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Guilledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 091**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**SCHAUBLIN S.A.**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

CH-2800 Delemont
Switzerland

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2064 | EN 2022<br>EN 2023<br>EN 2501 | No 97-1014 rev<br>01.10.01 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

20 January 2003

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 090 renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | LISI / BLANC AERO INDUSTRIES<br>18 Rue Jean Vaurs – BP 298<br>F-12202 Villefranche de Rouergue Cedex<br>France |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 5858 | EN2894-060 | Report : LISI_PQ090_Renewal.Pdf<br>based on original report<br>N°GP/DJ/16612<br>TURBOMECA,<br>Mr Michel Capblancq |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2014**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 05/04/2011 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 090 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
18 Rue Jean Vaurs – BP 298
F-12202 Villefranche de Rouergue Cedex
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : as above

ASD-CERT
Certification of Aerospace Standard Products
OFFICIAL COPY

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO 5858 | EN2894-060 | CPMO_2007-002 19-02-07 and letter GP/SC/20548 16-03-07 : Francis Guerrier (Turboméca) Originaly GP/DJ/16 612 26/09/2002 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**February 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 26 April 2007
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 090**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **LISI AEROSPACE**
FIRMA:

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:
Blanc Aero Industries
Rue Jean Vaurs
BP 298
F-12202 Villefranche de Rouergue Cedex
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N° /Issue/Date |
|---|---|---|
| ISO 5858 | EN 2894-060 | GP/DJ/16 612<br>26/09/2002 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20 January 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 089 Update May 2003**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**SARMA AEROSPACE EQUIPMENT**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

**1, avenue Marc Seguin**
**F-26240 Saint Vallier**
**France**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3280 | See attached form | See attached form |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

27 May 2003

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 089 Update May 2003**
**ZERTIFIKAT NR.**

List of certified parts:

## PQ 089 Sarma Aerospace Equipment

| Product identification | Report No |
|---|---|
| EN 3284 DIA 5 to 30<br>EN 3285 DIA 5 to 30<br>EN 3286 DIA 5 to 30<br>EN 3045 DIA 5 to 30<br>EN 3046 DIA 5 to 30<br>EN 3047 DIA 5 to 30 | TR 000 102<br>23.04.2001 |
| EN 3281 DIA 10 to 50<br>EN 3282 DIA 10 to 50<br>EN 3283 DIA 10 to 60<br>EN 4033 DIA 10 to 60 | TR 000 103<br>23.04.2001 |
| EN 3056 DIA 8 to 20<br>EN 3058 DIA 8 to 20 | TR 00 104<br>23.04.2001 |
| EN 3287 DIA 5 to 20<br>EN 3288 DIA 5 to 20<br>EN 3289 DIA 5 to 20 | TR 00 105<br>23.04.2001 |
| EN 3290 DIA 8 to 30<br>EN 3292 DIA 8 to 12 | TR 00 106<br>15.10.2001 |
| EN 3053 DIA 6 to 10<br>EN 3055 DIA 6 to 10 | TR 00 107<br>15.10.2001 |
| EN 2584 DIA 5 to 25<br>EN 4038 DIA 5 to 25<br>EN 2585 DIA 5 to 25 and 35 to 45<br>EN 4039 DIA 5 to 25 and 35 to 45<br>EN 3048 DIA 12 to 25<br>EN 4037 DIA 12 to 25<br>EN 4040 DIA 6 to 10 | TR 010501<br>20.05.03 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 088**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **HiRel Connectors inc.**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **760 W Wharton Drive, Claremont, California 91711, USA**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2997 | EN2997-003, -005, -006, -007 & -008 models<br>K, KE, S, SE & YE only | ESD9010<br>03.04.02 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2006**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 23 January 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 087 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Bollhoff Armstrong LTD
Stoneferry Business Park, Foster Street
HULL
HU8 8BT
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2943 | EN2942-050 | Report: N°149<br>for_Bollhoff_ACP005 Form2–2013/05/22<br>Keith Allen, Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

02/10/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 087 Renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ARMSTRONG Fastening Systems

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : Stoneferry Business Park
Foster Street
Hull
HU8 8BT, United Kingdom

ASD-CERT

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2943 | EN2942-050 | ESD 9148<br>July 2005 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 6 December 2005

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 087 – Renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ARMSTRONG PRECISION COMPONENTS LTD
Stoneferry Business Park, Foster Street
HULL
HU8 8BT
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2943 | EN2942-050 | ESD 9375 - July 2008<br>Philip Edwards - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 9 March 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 60 75 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 087**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**ARMSTRONG FASTENING SYSTEMS**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

**Stoneferry Business Park**
**Foster Street**
**Hull**
**HU8 8BT**
**United Kingdom**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2943 | EN 2942-050, -063 | ESD9023<br>15 August 2002 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**August 2005**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE
DATE:
DATUM:

6 December 2002

PLACE:
A
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**
**PQ 086**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:
**TYCO ELECTRONICS**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:
304 Constitution Drive
Menlo Pk
CA 94025-1164
**U.S.A.**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3567-001 | 3567-003RA..,003RB.., 003RC..<br>3567-004RA..,004-RB..,004RC..<br>Note: Thickness is "11.5mm" instead of "max. 10mm" | ISTR-0011<br>3 November 2000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 2003**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 4 March, 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 086**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **TYCO ELECTRONICS**
FIRMA:

PLACE OF MANUFACTURE: 304 Constitution Drive
LIEU DE FABRICATION: Menlo Pk
HERSTELLUNGSORT: CA 94025-1164
**U.S.A.**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3567-001 | 3567-003RA..,003RB.., 003RC..<br>3567-004RA..,004-RB..,004RC..<br>Note: Thickness is "11.5mm" instead of "max. 10mm" | ~~ISTR-5804~~<br>3 November 2000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis Corrected

**November 2003**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 17 July 2002
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 085**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **RIBE Richard Bergner GmbH & Co. KG**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **Bahnhofstrasse 8-16**
**D-91126 Schwabach**
**Germany**

has met the requirements of EN 3042 in respect of the following standards:
a satisfait les exigences de l'EN 3042 en ce qui concerne les normes suivantes:
die Forderungen der EN 3042 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| LN 9438<br>LN 9439 | LN 9438 (M4x14)<br>LN 9439 (M3x8) | E5534 (10.01.2002)<br>E5574 (10.01.2002) |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**April 2005**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: July 12, 2002
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 084 Renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES
2701 South Harbor Blvd
Santa Ana, CA. 92704, USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN 3236-100<br>EN 3237-100 (by analogy) | Reports: 0 ESD9522 issue 2 of September 2011<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2015**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 04 April 2012

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 84 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS Technologies
2701 South Harbour Boulevard
Santa Ana
California 92704, USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN3236-100<br>EN3237-100 (by analogy) | ESD9305 16-03-2007<br>Keith Allen, Rolls-Royce<br>originally ESD9002 - April 2002 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

26 March 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 084**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **SPS Technologies**
FIRMA:

PLACE OF MANUFACTURE: 2701 South Harbour Blvd
LIEU DE FABRICATION: Santa Ana, California 92704-5803
HERSTELLUNGSORT: **U.S.A.**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3297 | EN3236-100<br>EN3237-100 | Rolls Royce doc ESD 9002 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**April 2005**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 4 April 2002
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT

Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 083 Renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | ALCOA Fastening Systems<br>Aerospace Products |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | 300 West Lomita Blvd<br>Torrance, CA 90506<br>USA |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN3236-100<br>EN3237-100 | Rolls-Royce ESD9145<br>June 21st 2005 and original report ESD9000 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 10.08.2005

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 083**<br>renewal |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**ALCOA Fastening Systems**
**Aerospace Products**
**300 West Lomita Blvd**
**Torrance, CA 90506**
**USA**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°/Issue/Date |
|---|---|---|
| EN3297 | EN3236-100<br>EN3237-100 | Rolls-Royce ESD9145<br>June 21st 2005 and original report ESD9000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

June 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 10.08.2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 083**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**Fairchild Fasteners, Southbay Facility**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

3000 West Lomita Blvd
Torrence, California 90505
**U.S.A.**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3297 | EN3236-100<br>EN3237-100 | Rolls Royce doc ESD 9000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2005**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 2 April 2002
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT

Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 082 Renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME : ALCOA Fastening Systems
NOM DE SOCIETE : Aerospace Products
FIRMA :

PLACE OF MANUFACTURE : 300 West Lomita Blvd
LIEU DE FABRICATION : Torrance, CA 90506
HERSTELLUNGSORT : USA

ASD-CERT

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN3236-080<br>EN3237-080 | Rolls-Royce ESD9145<br>June 21st 2005 and original report ESD8994 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 10.08.2005
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Guilledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 082**<br>renewal |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**ALCOA Fastening Systems**
**Aerospace Products**
**300 West Lomita Blvd**
**Torrance, CA 90506**
**USA**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3297 | EN3236-080<br>EN3237-080 | Rolls-Royce ESD9145<br>June 21st 2005 and original report ESD8994 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

June 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 10.08.2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 082**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **Fairchild Fasteners, Southbay Facility**
FIRMA:

PLACE OF MANUFACTURE: 3000 West Lomita Blvd
LIEU DE FABRICATION: Torrence, California 90505
HERSTELLUNGSORT: **U.S.A.**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3297 | EN3236-080<br>EN3237-080 | Rolls Royce doc ESD 8994 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2005**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 22 January 2002
DATUM:

PLACE:
A: Brussels
ORT

SIGNATURE
SIGNATURE
UNTERSCHRIFT

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 081 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3299 | EN3728-022<br>EN4396-022 | ESD9376, Keith Allen, Rolls-Royce, August 2008 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

19 August 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 081**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**Fairchild Fasteners**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

9 Rue des Cressonieres
72210 St Cosme en Varais
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3299 | EN3728-022<br>EN4396-022 | ESD8993 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2005**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

22 January 2002

PLACE:
A:
ORT

Brussels

SIGNATURE
SIGNATURE:
UNTERSCHRIFT

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 080 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : AMPHENOL LTD
Thanet Way
Whitstable, KENT CT5 3JF
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-003<br>EN 2997-004<br>EN 2997-008<br>Class S, SE, K, KE | ESD 9381 - February 2009<br>Michael Stock - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 17 March 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 080**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **Amphenol, Pyle National Division**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **Unit D1, Crossgate Drive**
**Queens Drive Industrial Estate**
**Nottingham, NG2 1LW**
**England**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| **EN2997-001** | **See attachment** | **Rolls Royce plc report ESD8992** |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2005**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 22 January 2002
DATUM:

PLACE:
A **Brussels**
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

PQ 080 Amphenol, Pyle National Division

EN2997S.....
EN2997SE.....
EN2997K.....
EN2997KE.....

In accordance with EN2997-003, EN2997-004 and 008.

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 079**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **SPS TECHNOLOGIES (T.J. Brooks Division)**
FIRMA:

PLACE OF MANUFACTURE: **191 Barkby Road**
LIEU DE FABRICATION: **Troon Industrial Area**
HERSTELLUNGSORT: **Leicester LE4 9HX**
**England**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 7689 | EN2859-040, 050, 060 | Rolls-Royce doc ESD 8958 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**October 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 3 October 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 078 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO9152 | EN4495-040, -050, -060<br>EN4496-030, -040, -050, -060, -070, -080, -100<br>EN4499-050, -060, -070 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

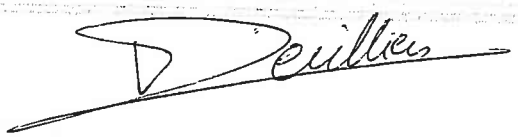
11 May 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 078**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **SPS TECHNOLOGIES (T.J. Brooks Division)**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **191 Barkby Road**
**Troon Industrial Area**
**Leicester LE4 9HX**
**England**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 9152 | EN4495-040, 050, 060<br>EN4496-030, 040, 050, 060, 070, 080, 100<br>EN4499-050, 060, 070 | Rolls-Royce doc ESD 8953, 8954, 8955, 8956, 8957 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**October 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 3 October 2001

PLACE:
A:
ORT: Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 077**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**FAIRCHILD FASTENERS, Southbay Facility**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

**3000 West Lomita Blvd**
**Torrence, California 90505**
**U.S.A.**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3297 | EN3236-070<br>EN3237-070 | Rolls-Royce doc.<br>ESD 8952 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**October 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 3 October 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 077 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : ALCOA Fastening Systems
Aerospace Products

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : 300 West Lomita Blvd
Torrance, CA 90506
USA

ASD-CERT

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN3236-070<br>EN3237-070 | Rolls-Royce ESD9145<br>June 21st 2005 and original report ESD8952 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 10.08.2005
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Guilledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 077**<br>renewal |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**ALCOA Fastening Systems**
**Aerospace Products**
**300 West Lomita Blvd**
**Torrance, CA 90506**
**USA**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3297 | EN3236-070<br>EN3237-070 | Rolls-Royce ESD9145<br>June 21st 2005 and original report ESD8952 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

June 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 10.08.2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 076**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **AEROFIT PRODUCTS INC.**
FIRMA:

PLACE OF MANUFACTURE: **6460 Dale Street**
LIEU DE FABRICATION: **Buena Park California**
HERSTELLUNGSORT: **CA 90621**
**U.S.A.**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attachment | See attachment | Engineering Report No 1300, Issue Jan 01/Rev. April 2001, GTR-J-290-0290, 12 Sep. 2001 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**October 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 3 October 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# Attachment to AECMA-CERT PQ 076, 3 October 2001

| Applicable standards | Products | Applicable standard | Products |
|---|---|---|---|
| EN2656 | EN2656 | EN3275 | EN4026<br>EN4027<br>EN4028<br>EN4029<br>EN4030<br>EN4031<br>EN4182<br>EN4183<br>EN4184<br>EN4185<br>EN4186<br>EN4187<br>EN4188<br>EN4189<br>EN4190<br>EN4191<br>EN4192<br>EN4193<br>EN4194<br>EN4233 |
| EN3275 | EN3080<br>EN3081<br>EN3082<br>EN3083<br>EN3084<br>EN3243<br>EN3244<br>EN3245<br>EN3246<br>EN3247<br>EN3248<br>(EN3249) replaced by EN4017<br>EN3264 | | |
| EN3266 | EN3266 | | |
| EN3267 | EN3267 | | |
| EN3275 | EN3268<br>EN3269<br>EN3273<br>EN3274<br>EN3561 | | |
| EN3688 | EN3688 | | |
| EN3689 | EN3689 | | |
| EN3275 | EN3690<br>EN3691 | | |
| EN3696 | EN3696 | | |
| EN3275 | EN4017<br>EN4018<br>EN4019<br>EN4020<br>EN4021<br>EN4022<br>EN4023<br>EN4024<br>EN4025 | | |

ASD-CERT
Certification of Aerospace Standard Products

Av de Tervuren 270
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 075 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : RWG Frankenjura-Industrie Flugwerklager GmbH

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : Gartenhaeuser Weg 19
D-91462 Dachsbach
Germany

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Qualification Test Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | See attachment | Continuous since 2000/2001 to 2007 and next 3 years in production plan. See attached FAIR according to AS9102 number 102-07 (EN2287-1208), 103-07 (EN3289BR06E), 104-07 (EN2585R20A) 22-10-2007, H.R. Ziemer, EADS-MAS. |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 1st February 2008

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

# Attachment to ASD-CERT PQ 75, 1st February 2008

| Applicable standard | Products | Codes | Product description |
|---|---|---|---|
| EN 3211 | EN 2285 | 06.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 08.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 10.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 12.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 15.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 16.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 18.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 20.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 22.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 25.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 28.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 30.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 32.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 35.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 40.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 45.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2285 | 50.. | Bushes plain aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 06.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 08.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 10.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 12.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 15.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 16.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 18.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 20.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 22.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 25.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 28.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 30.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 32.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 35.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 40.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 45.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2286 | 50.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 06.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 08.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 10.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 12.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 15.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 16.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 18.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 20.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 22.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |

# Attachment to ASD-CERT PQ 75, 1st February 2008

| Applicable standard | Products | Codes | Product description |
|---|---|---|---|
| EN 3211 | EN 2287 | 25.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 28.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 30.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 32.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 35.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 35.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 40.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2287 | 45.. | Bushes, plain corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 06.. | Bushes, flanged aluminium alloy with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 08.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 10.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 12.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 15.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 16.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 18.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 20.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 22.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 25.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 28.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 30.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 32.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 35.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 40.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 45.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 3211 | EN 2288 | 50.. | Bushes, flanged corrosion resisting steel with self-lubricating liner - Dimensions and loads |
| EN 2337 | EN 2335 | ..04.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..05.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..06.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..08.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..10.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..12.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..15.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..17.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..20.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..25.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..30.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..35.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..40.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..45.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..50.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2337 | EN 2335 | ..60.. | Bearings-spherical plain in corrosion resisting steel without assembly slot - Dimensions and loads |
| EN 2755 | EN 2584 | .04... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .05... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .06... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .08... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |

# Attachment to ASD-CERT PQ 75, 1st February 2008

| Applicable standard | Products | Codes | Product description |
|---|---|---|---|
| EN 2755 | EN 2584 | .10... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .12... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .15... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .17... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .20... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .25... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .30... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .35... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .40... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .45... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2584 | .50... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Narrow series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2755 | EN 2585 | .04... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .05... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .06... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .08... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .10... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .12... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .15... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .17... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .20... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .25... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .30... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .35... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .40... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .45... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .50... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2755 | EN 2585 | .55... | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Wide series - Elevated loads at ambient temperature – Dimensions and loads |
| EN 2586 | EN 2586 | 8 | Washers, lock for flight control rods - Dimensions |
| EN 2586 | EN 2586 | 10 | Washers, lock for flight control rods - Dimensions |
| EN 2586 | EN 2586 | 12 | Washers, lock for flight control rods - Dimensions |
| EN 2586 | EN 2586 | 14 | Washers, lock for flight control rods - Dimensions |
| EN 2586 | EN 2586 | 16 | Washers, lock for flight control rods - Dimensions |
| EN 3280 | EN 3283 | .10. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .12. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .15. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |

# Attachment to ASD-CERT PQ 75, 1st February 2008

| Applicable standard | Products | Codes | Product description |
|---|---|---|---|
| EN 3280 | EN 3283 | .17. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .20. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .25. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .30. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .35. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .40. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .50. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .60. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3286 | .05. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .06. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .08. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .10. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .12. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .15. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .17. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .20. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .25. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .30. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3289 | ..05. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | ..06. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | ..08. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | ..10. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | ..12. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | ..15. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | ..17. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | ..20. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 075**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **RWG FRANKENJURA INDUSTRIES Flugwerklager GmbH**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **Gartenhäuser Weg 19**
**D-91462 Dachsbach**
**Germany**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attachment | See attachment | R-J-000-M-0366<br>Issue 2<br>(11.09.2001) |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**October 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 3 October 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**Attachment to AECMA-CERT PQ 075, 3 October 2001**

| Applicable standard | Product |
|---|---|
| EN3211 | EN2285<br>EN2286<br>EN2287<br>EN2288 |
| EN2337 | EN2335 |
| EN2755 | EN2584<br>EN2585 |
| EN2586 | EN2586 |
| EN3280 | EN3283<br>EN3286<br>EN3289 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

**PQ 074**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**FACOM S.A.**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

**Z.I. La Haie Passart**
**6 rue Leonard De Vinci**
**F-77170 Brie Comte Robert**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 4111 | EN 4108-06 EN 4108-14<br>EN 4108-08 EN 4108-16<br>EN 4108-10 EN 4108-20<br>EN 4108-12 | Rolls Royce<br>ESD 8932<br>19 Jan. 2001 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**September 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

14 September 2001

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 073 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : CONNECTEURS ELECTRIQUES DEUTSCH
17, rue Lavoisier
27000 EVREUX
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN 2997-003, -004, -008, -009, -010, -012, -013<br>Class K, KE, S, SE | EDDLE 72/2008 - September 2008<br>Louis Leblanc - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MARCH 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 13 March 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 073**<br>renewal |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**Connecteurs Electriques Deutsch**
**17, Rue Lavoisier**
**Zone Industrielle No. 2**
**27091 Evreux, Cedex 9**
**France**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2997-001 | EN2997-003, -004, -008, -009, -010<br>Classes K, S, KE, SE | Rolls-Royce ESD9078 06/2004 and ESD9096 dated 23.07.2004, Hispano-Suiza EME-009-2005 dated 03.02.2005<br>Dassault-Aviation conformity statement 26.05.2005 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis:

May 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 04.08.2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES · CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**Nº DE CERTIFICAT**
**ZERTIFIKAT NR.**
**PQ 073**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:
**CONNECTEURS ELECTRIQUES DEUTSCH**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:
**17, RUE LAVOISIER**
**F-27091 Evreux Cedex**
**France**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report Nº./Issue/Date |
|---|---|---|
| See Attachment 1 | See Attachment 1 | SNECMA Control System, Unité 17 Test Rep. 10-05-2001 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**June 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:
15 June 2001

PLACE:
A:
ORT:
Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# Attachment 1 to AECMA-CERT PQ 073, 15 June 2001

| **Applicable standard**<br>**Norm applicable**<br>**Zutreffende Norm** | **Products**<br>**Produits**<br>**Erzeugnisse** | **Report N°/Issue Date** |
|---|---|---|
| EN 2997-001 | <u>Connectors, electrical</u>:<br><br>EN 2997 S 0 •<br>EN 2997 SE 0 •<br>EN 2997 S 7 •<br>EN 2997 SE 7 •<br>EN 2997 K 6 •<br>EN 2997 KE 6 •<br>EN 2997 S 6 •<br>EN 2997 SE 6 •<br><br>• for cavities size 12, 16 and 20<br><br><u>Connectors, cover</u>:<br><br>EN 2997 KE 3 •<br>EN 2997 K 4 •<br>EN 2997 KE 4 •<br><br>• for cavities size 12, 16 and 20 | SNECMA Control System, Unité 17<br>Test Rep. 10-05-2001 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 072**<br>renewal |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**Connecteurs Electriques Deutsch**
**17, Rue Lavoisier**
**Zone Industrielle No. 2**
**27091 Evreux, Cedex 9**
**France**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3155-001 | EN3155-004M<br>EN3155-005F<br>EN3155-018M<br>EN3155-019F | RD 097-013/ 03.02.2005<br>RG 097-013 / 09.12.2004<br>RP 097-013 / 09.12.2004<br>RS 097-013 / 09.12.2004 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

February 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

04.08.2005

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 072**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **CONNECTEURS ELECTRIQUES DEUTSCH**
FIRMA:

PLACE OF MANUFACTURE: **17, RUE LAVOISIER**
LIEU DE FABRICATION: **F-27091 Evreux Cedex**
HERSTELLUNGSORT: **France**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N° /Issue/Date |
|---|---|---|
| See Attachment 1 | See Attachment 1 | SNECMA Control System, Unité 17<br>Test Rep. 10-05-2001 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**June 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 15 June 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# Attachment 1 to AECMA-CERT PQ 072, 15 June 2001

| **Applicable standard**<br>**Norm applicable**<br>**Zutreffende Norm** | **Products**<br>**Produits**<br>**Erzeugnisse** | **Report N°/Issue Date** |
|---|---|---|
| EN 3155-001 | Electrical Contacts:<br>EN 3155 004 M 1616<br>EN 3155 004 M 2020<br>EN 3155 005 F 1616<br>EN 3155 005 F 2020<br>EN 3155 018 M 1616<br>EN 3155 018 M 2020<br>EN 3155 019 F 1616<br>EN 3155 019 F 2020 | SNECMA Control System, Unité 17<br>Test Rep. 10-05-2001 |

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 071 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155<br>See Appendix for the Qualified part number list | MBR Report N°187 ACP005-Form 2<br>Date 2013-03-21<br>Christian Mazelle, Snecma |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JANUARY 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/12/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT
PQ 071 - Appendix 1 for the Qualified part number list

| ASD Designation | ASD Cert | TSEI Part Numbers | |
|---|---|---|---|
| | | 0,8 µm Au Full Plate | 0,8 µm Au Selective Plate |
| Table A.1 Part Number from PQ 071 | | | |
| EN3155-003F1212 | PQ 071 | 218-1212-108 | 218-1212-108-L |
| EN3155-008M2222 | PQ 071 | 217-2222-103 | 217-2222-103-L |
| EN3155-009F2020 | PQ 071 | 218-2020-139 | 218-2020-139-L |
| EN3155-009F2222 | PQ 071 | 218-2222-136 | 218-2222-136-L |
| EN3155-017F1216 | PQ 071 | 218-1216-634 | 218-1216-634-L |
| EN3155-017F1616 | PQ 071 | 218-1616-634 | 218-1616-634-L |
| EN3155-017F1620 | PQ 071 | 218-1620-634 | 218-1620-634-L |
| EN3155-018M1618 | PQ 071 | 217-1618-089 | 217-1618-089-L |
| EN3155-019F1212 | PQ 071 | 218-1212-090 | 218-1212-090-L |
| EN3155-019F1616 | PQ 071 | 218-1616-089 | 218-1616-089-L |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 071 (renewal)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : TRI-STAR ELECTRONICS INTERNATIONAL Inc
2201 ROSECRANS AVENUE
EL SEGUNDO, CA 90245 - USA

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | EN3155-<br>See appendix | Eurocopter Report - 03/03/2009<br>Louis Leblanc - Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

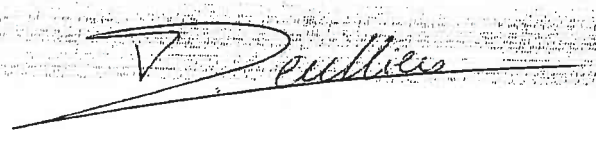
**July 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 21 July 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# APPENDIX

## Qualified part numbers

| EN P/N | TRI STAR P/N | TRI STAR P/N Fully plated | TRI STAR P/N Selectively plated | TRI STAR P/N Full plate low Au | TRI STAR P/N Selective low Au |
|---|---|---|---|---|---|
| EN3155-003F1212 | TS3155-003F1212 | 316-1212-108 | [redacted] | 218-1212-108 | 218-1212-108-L |
| EN3155-004M2018 | TS3155-004M2018 | 317-2018-088 | 317-2018-088-L | 217-2018-088 | 217-2018-088-L |
| EN3155-005F1616 | TS3155-005F1616 | 318-1616-089-RR | 318-1616-089-RR-L | 218-1616-089-RR | 218-1616-089-RR-L |
| EN3155-005F1618 | TS3155-005F1618 | 318-1618-089-RR | 318-1618-089-RR-L | 218-1618-089-RR | 218-1618-089-RR-L |
| EN3155-005F2018 | TS3155-005F2018 | 318-2018-088-RR | 318-2018-088-RR-L | 218-2018-088-RR | 218-2018-088-RR-L |
| EN3155-008M2222 | TS3155-008M2222 | 315-2222-103 | [redacted] | 217-2222-103 | 217-2222-103-L |
| EN3155-009F2020 | TS3155-009F2020 | 316-2020-139 | 316-2020-139-L | 218-2020-139 | 218-2020-139-L |
| EN3155-009F2222 | TS3155-009F2222 | 316-2222-136 | 316-2222-136-L | 218-2222-136 | 218-2222-136-L |
| EN3155-017F1216 | TS3155-017F1216 | 318-1216-634 | [redacted] | 218-1216-634 | 218-1216-634-L |
| EN3155-017F1616 | TS3155-017F1616 | 316-1616-634 | [redacted] | 218-1616-634 | 218-1616-634-L |
| EN3155-017F1620 | TS3155-017F1620 | 316-1620-634 | [redacted] | 218-1620-634 | 218-1620-634-L |
| EN3155-018M1618 | TS3155-018M1618 | 317-1618-089 | [redacted] | 217-1618-089 | 217-1618-089-L |
| EN3155-019F1212 | TS3155-019F1212 | [redacted] | 316-1212-090-L | 218-1212-090 | 218-1212-090-L |
| EN3155-019F1616 | TS3155-019F1616 | [redacted] | 316-1616-089-L | 218-1616-089 | 218-1616-089-L |

ASD-CERT
Certification of Aerospace Standard Products

270 Av. de Tervuren
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 071 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
TRI-STAR Electronics International, INC.
2201, Rosecrans Avenue
EL SEGUNDO CA 90245
UNITED STATES

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3155-001 | See attachment | LL/QTR/001 – 15/12/2006<br>Louis Leblanc<br>TRI-STAR Letter TS/01 - 15/12/2006 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2009**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
10 May 2007

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Stéphane Laumond, Secretary General

## APPENDIX PQ071 renewal – 10/05/2007

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse |
|---|---|
| EN3155-001 | EN3155-003F1212 |
| | EN3155-004M2018 |
| | EN3155-005F1616 |
| | EN3155-005F1618 |
| | EN3155-005F2018 |
| | EN3155-008M2222 |
| | EN3155-009F2020 |
| | EN3155-009F2222 |
| | EN3155-017F1216 |
| | EN3155-017F1616 |
| | EN3155-017F1620 |
| | EN3155-018M1618 |
| | EN3155-019F1212 |
| | EN3155-019F1616 |

ASD-CERT
Certification of Aerospace Standard Products

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 071**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **TRI-STAR ELECTRONICS EUROPE SA**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **Centro Nord Sud**
**Stabile 2A**
**6934 Bioggio**
**Switzerland**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See Attachment 1 | See Attachment 1 | JCB 068 1405/99 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**June 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 15 June 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# Attachment 1 to AECMA-CERT PQ 071, 15 June 2001

| Applicable standard<br>Norm applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°/Issue Date |
|---|---|---|
| EN 3155-001 | Electrical Contacts:<br>EN 3155 003 F 1212<br>EN 3155 004 M 2018<br>EN 3155 005 F 1616<br>EN 3155 005 F 1618<br>EN 3155 005 F 2018<br>EN 3155 005 F 2020<br>EN 3155 008 M 2222<br>EN 3155 009 F 2020<br>EN 3155 009 F 2222<br>EN 3155 017 F 1216<br>EN 3155 017 F 1616<br>EN 3155 017 F 1620<br>EN 3155 018 M 1618<br>EN 3155 019 F 1212<br>EN 3155 019 F 1616 | JCB 068 1405/99 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 070**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **FAIRCHILD FASTENERS MECAERO**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **Boulevard du Grand Castaing**
**Roques sur Garonne**
**F-31128 Portet sur Garonne Cedex**
**France**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See Attachment 1 | See Attachment 1 | Conversion of C8 certificates Rolls-Royce |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**June 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 15 June 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# Attachment 1 to AECMA-CERT PQ 070, 15 June 2001

| Applicable standard<br>Norm applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°/Issue Date |
|---|---|---|
| EN 2583 | Bolts:<br>EN 2927 – 050 through – 120<br>EN 2928 – 050 through – 120<br>EN 3008 – 050 through – 120<br>EN 3009 – 050 through – 120<br>EN 3293 – 050 through – 120<br>EN 3326 – 050 through – 120<br>EN 3327 – 050 through – 120<br>EN 3613 – 050 through – 120 | Conversion of C8 certificates Rolls-Royce |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**Nº DE CERTIFICAT**
**ZERTIFIKAT NR.**
**PQ 069**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:
**FAIRCHILD FASTENERS MECAERO**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:
**Boulevard du Grand Castaing**
**Roques sur Garonne**
**F-31128 Portet sur Garonne Cedex**
**France**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report Nº /Issue/Date |
|---|---|---|
| See Attachment 1 | See Attachment 1 | Conversion of C8 certificates Rolls-Royce |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**June 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 15 June 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# Attachment 1 to AECMA-CERT PQ 069, 15 June 2001

| Applicable standard<br>Norm applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°/Issue Date |
|---|---|---|
| EN 2576 | Bolts:<br>EN 2925 – 050 through – 120<br>EN 2926 – 050 through – 120<br>EN 3006 – 050 through – 120<br>EN 3007 – 050 through – 120<br>EN 3614 – 050 through – 120 | Conversion of C8 certificates Rolls-Royce |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 068**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **SPS TECHNOLOGIES**
FIRMA:

PLACE OF MANUFACTURE: **2701 South Harbour Boulevard**
LIEU DE FABRICATION: **Santa Ana**
HERSTELLUNGSORT: **California 92702-1259**
**USA**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3236-050<br><br>EN3237-050 | Thin Wall Inserts | ESD 8901<br>25.07.2000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**SEPTEMBER 2003**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 26 September 200 – revised 5 March 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** PQ 067

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: SPS TECHNOLOGIES

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 2701 South Harbour Boulevard
Santa Ana
California 92702-1259
USA

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3236-050<br>EN3237-050 | Thin Wall Inserts | ESD 8901<br>25.07.2000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

SEPTEMBER 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 26 September 2000

PLACE:
A:
ORT: Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

ASD-CERT
Certification of Aerospace Standard Products

Av de Tervuren 270
B-1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 067 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : RWG Frankenjura-Industrie Flugwerklager GmbH

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : Gartenhaeuser Weg 19
D-91462 Dachsbach
Germany

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Qualification Test Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| See attachment | See attachment | Continuous since 2000/2001 to 2007 and next 3 years in production plan. See attached FAIR according to AS9102 number 102-07 (EN2287-1208), 103-07 (EN3289BR06E), 104-07 (EN2585R20A) 22-10-2007, H.R. Ziemer, EADS-MAS. |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 1st February 2008

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General *(+33 1 47 65 70 18)*

# Attachment to ASD-CERT PQ 67, 1st February 2008

| Applicable standard | Products | Codes | Product description |
|---|---|---|---|
| EN 2337 | EN 2335 | ..04.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..05.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..06.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..08.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..10.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..12.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..15.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..17.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..20.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..25.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..30.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..35.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..40.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..45.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..50.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2337 | EN 2335 | ..60.. | Bearings - spherical plain in corrosion resisting steel without assembly slot |
| EN 2775 | EN 3048 | R12. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R15. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R17. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R20. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R25. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R30. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R35. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R40. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R45. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | R50. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S12. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S15. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S17. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S20. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S25. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |

# Attachment to ASD-CERT PQ 67, 1st February 2008

| Applicable standard | Products | Codes | Product description |
|---|---|---|---|
| EN 2775 | EN 3048 | S30. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S35. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S40. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S45. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 2775 | EN 3048 | S50. | Bearings, spherical plain in corrosion resisting steel with self-lubricating liner - Light series - Elevated loads at ambient temperature - Dimensions and loads |
| EN 3280 | EN 3283 | .10. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .12. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .15. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .17. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .20. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .25. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .30. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .35. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .40. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .50. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3283 | .60. | Bearings, airframe rolling - Rigid single row ball bearings in corrosion resisting steel - Diameter series 8 and 9 - Dimensions and loads |
| EN 3280 | EN 3286 | .05. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .06. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .08. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .10. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .12. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .15. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |

# Attachment to ASD-CERT PQ 67, 1st February 2008

| Applicable standard | Products | Codes | Product description |
|---|---|---|---|
| EN 3280 | EN 3286 | .17. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .20. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .25. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3286 | .30. | Bearings, airframe rolling - Rigid single row ball bearings in corrosions resisting steel - Diameter series 0 and 2 - Normal clearance category - Dimensions and loads |
| EN 3280 | EN 3289 | .05. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | .06. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | .08. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | .10. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | .12. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | .15. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | .17. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |
| EN 3280 | EN 3289 | .20. | Bearings, airframe rolling - Double row self-aligning ball bearings in corrosion resisting steel - Diameter series 2 - Dimensions and loads |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 067**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **RWG Frankenjura Industrie Flugwerklager GmbH**

PLACE OF MANUFACTURE: **Gartenhäuser Weg 19**
LIEU DE FABRICATION: **D-91462 Dachsbach**
HERSTELLUNGSORT: **Germany**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See Attachment 1 through 3 | See Attachment 1 through 3 | R-J-000-M-0366<br>12 September 2000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**December 2003**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 21 December 2000
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# Attachment 1 to AECMA-CERT PQ 067, 21 December 2000

| Applicable standard<br>Norm applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No./<br>Issue date |
|---|---|---|
| EN 3280 | Bearing Rolling:<br><br>EN 3283, codes 10, 12, 15, 17, 20, 25, 30, 35, 40, 50, 60<br><br>EN 3286, codes 5, 6, 8, 10, 12, 15, 17, 20, 25, 30<br><br>EN 3289, codes 5, 6, 8, 10, 12, 15, 17, 20 | See PQ 067 |

21 December 2000 – revised on 05.03.01

# Attachment 2 to AECMA-CERT PQ 067, 21 December 2000

| Applicable standard<br>Norm applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No./<br>Issue date |
|---|---|---|
| EN 2337 | Bearing Plain:<br><br>EN 2335, codes 4, 5, 6, 8, 10, 12, 15, 17, 20, 25, 30, 35, 40, 45, 50, 60 | See PQ 067 |

21 December 2000 – revised on 05.03.01

# Attachment 3 to AECMA-CERT PQ 067, 21 December 2000

| Applicable standard<br>Norm applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No./<br>Issue date |
|---|---|---|
| EN 2775 | Bearing Self Lub.:<br>EN 3048, codes 12, 15, 17, 20, 25, 30, 35, 40, 45, 50 | See PQ 067 |

21 December 2000 – revised on 05.03.01

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 066 Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME : ALCOA Fastening Systems
NOM DE SOCIETE : Aerospace Products
FIRMA :

PLACE OF MANUFACTURE : 300 West Lomita Blvd
LIEU DE FABRICATION : Torrance, CA 90506
HERSTELLUNGSORT : USA

ASD-CERT

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3297 | EN2360-050, -060<br>EN3237-050, -060 | Rolls-Royce ESD9145<br>June 21st 2005 and original reports ESD 8871 and ESD8872 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2008**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 10.08.2005
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 066**<br>renewal |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

**ALCOA Fastening Systems**
**Aerospace Products**
**300 West Lomita Blvd**
**Torrance, CA 90506**
**USA**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3297 | EN3236-050<br>EN3236-060<br>EN3237-050<br>EN3237-060 | Rolls-Royce ESD9145<br>June 21st 2005 and original reports ESD8871 and ESD8872 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

June 2008

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 10.08.2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 066
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: FAIRCHILD FASTENERS
NOM DE SOCIETE: Aero Division
FIRMA: South Bay Operations

PLACE OF MANUFACTURE: 3000 West Lomita Blvd
LIEU DE FABRICATION: Torrence
HERSTELLUNGSORT: California 90505
USA

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3236 and EN3237<br>-050 & -060 -050 & -060 | Thin Wall Inserts | ESD8871 & ESD8872<br>February 2000 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

AUGUST 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 03.08.00
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 065
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: BLANC AERO INDUSTRIES
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: 18, Rue Jean Vaurs
LIEU DE FABRICATION: F-12200 Villefranche de Rouergue
HERSTELLUNGSORT: France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3912-50 | Bolts | JPC/GP N°15837<br>02.06.00 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JULY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 19 July 2000
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 064
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: FAIRCHILD FASTENERS MECAERO
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Boulevard du Grand Castaing
LIEU DE FABRICATION: Roques sur Garonne
HERSTELLUNGSORT: F-31128 Portet sur Garonne Cedex
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 9152 | Bolts and screws<br>see attached | DGQT-ST N°99-8300<br>03/03/99 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JULY 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 14 July 2000
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# FAIRCHILD FASTENERS MECAERO

## PQ CERTIFICATES (MB: DASSAULT AVIATION)

| Products EN | Size | | | | | |
|---|---|---|---|---|---|---|
| EN 2549 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 2870 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 2884 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 3037 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 3304 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 3381 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 3740 | | -050 | -060 | -080 | -100 | -120 |
| EN 3820 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4071 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4072 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4074 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4127 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4130 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4133 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4135 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4137 | | | | -080 | -100 | -120 |
| EN 4178 | -040 | -050 | -060 | -080 | -100 | -120 |

PQ 064

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 063
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: FAIRCHILD FASTENERS MECAERO
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Boulevard du Grand Castaing
LIEU DE FABRICATION: Roques sur Garonne
HERSTELLUNGSORT: F-31128 Portet sur Garonne Cedex
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 7689 | Bolts and screws<br>see attached | DGQT-ST N°99-8300<br>03/03/99 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JULY 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 14 July 2000
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

## FAIRCHILD FASTENERS MECAERO

PQ CERTIFICATES (MB: DASSAULT AVIATION)

| Products EN | Size | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| EN 4129 | -030 | -040 | -050 | -060 | -080 | -100 | -120 | PQ 063 |
| EN 4132 | -030 | -040 | -050 | -060 | -080 | -100 | -120 | |
| EN 4136 | | | -050 | -060 | -080 | -100 | -120 | |
| EN 4138 | -030 | -040 | -050 | -060 | -080 | -100 | -120 | |
| EN 4161 | -030 | -040 | -050 | -060 | -080 | -100 | -120 | |
| EN 4162 | -030 | -040 | -050 | -060 | -080 | -100 | -120 | |
| EN 4163 | | | -050 | -060 | -080 | -100 | -120 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 062
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: FAIRCHILD FASTENERS MECAERO
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Boulevard du Grand Castaing
LIEU DE FABRICATION: Roques sur Garonne
HERSTELLUNGSORT: F-31128 Portet sur Garonne Cedex
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 7689 | Bolts and screws<br>See attached | DGQT-ST N°99-8300<br>03/03/99 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JULY 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 14 July 2000
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

## FAIRCHILD FASTENERS MECAERO

PQ CERTIFICATES (MB: DASSAULT AVIATION)

| Products EN | Size | | | | | | |
|---|---|---|---|---|---|---|---|
| EN 2413 | | | -050 | -060 | -080 | -100 | -120 |
| EN 2859 | -030 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 2897 | -030 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 3035 | -030 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 3303 | -030 | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 3305 | | -040 | -050 | -060 | -080 | -100 | -120 |
| EN 4073 | -030 | -040 | -050 | -060 | -080 | -100 | -120 |

PQ 062

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 061
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: The Monadnock Company
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: 18301 East Arenth Avenue
LIEU DE FABRICATION: City of Industry, CA 91748-1288
HERSTELLUNGSORT: U.S.A.

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| prEN 3241-50 | Fasteners | ESD8787<br>September 1999 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JULY 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 11 July 2000
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 059
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: BLANC AERO INDUSTRIES
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Rue Jean Vaurs 18
LIEU DE FABRICATION: F-12202 Villefranche de Rouergue
HERSTELLUNGSORT: France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| prEN3672 | Self locking shank nut<br>prEN3672-060 | Turbomeca C8/162 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MAY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 21 May 1999
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 058
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: BLANC AERO INDUSTRIES
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Rue Jean Vaurs 18
LIEU DE FABRICATION: F-12202 Villefranche de Rouergue
HERSTELLUNGSORT: France

has met the requirements of **EN 3042** in respèct of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| prEN3637 | Self locking bi-hexagonal nut<br>prEN3637-060 | Turbomeca C8/161 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MAY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 21 May 1999
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 057
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: FAIRCHILD Division SIMMONDS
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: 9, rue des Cressonnieres - BP 5
LIEU DE FABRICATION: F-72110 Saint Cosme en Vairais
HERSTELLUNGSORT: FRANCE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| | Nuts | SNECMA reports 4572, 4573, 4571, 4312, 4313, 4361, 4314, 4315 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

November 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 17 November 1998
DATE:
DATUM:

EN3722-050, EN3722-060,
EN4124-060, EN3672-060,
EN3721-050, EN3721-060,
EN3721-070, EN3721-080,
EN3721-100

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 056
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: CROUZET AUTOMATISMES
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: ZA DE LA PLAINE
LIEU DE FABRICATION: 10, RUE DU DOCTEUR ABEL
HERSTELLUNGSORT: 26027 VALENCE FRANCE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2350 | SINGLE POLE CIRCUIT BREAKERS<br>EN 3773-003 (see list below)<br>EN 3773-004 | Aérospatiale<br>C.CT.DJNG.RQ0001<br>E (REV.B)<br>C.CT.DJNG.RQ. H135 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JULY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: JULY 6, 1998
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:



| | |
|---|---|
| EN 3773-003D01A | EN 3773-004D01A |
| EN 3773-003D02A | EN 3773-004D02A |
| EN 3773-003D02A5 | EN 3773-004D02A5 |
| EN 3773-003D03A | EN 3773-004D03A |
| EN 3773-003D05A | EN 3773-004D05A |
| EN 3773-003D07A5 | EN 3773-004D07A5 |
| EN 3773-003D10A | EN 3773-004D10A |
| EN 3773-003D15A | EN 3773-004D15A |
| EN 3773-003D20A | EN 3773-004D20A |
| EN 3773-003D25A | EN 3773-004D25A |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**Nº DE CERTIFICAT** PQ 055
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: DOWTY ENGINEERED SEAL
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: ASHCHURCH, TEWKESBURY
LIEU DE FABRICATION: GLOS GL 208 JS
HERSTELLUNGSORT: ENGLAND

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report Nº./Issue/Date |
|---|---|---|
| EN 3050 | O-RING prEN3049 | ROLS ROYCE PLC<br>ESD 8717<br>ISSUE 1 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JULY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: JULY 7, 1998
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 054
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: DOWTY ENGINEERED SEALS
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Ashchurch, Tewkesbury
LIEU DE FABRICATION: Glos GL 208 JS
HERSTELLUNGSORT: England

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| | prEN 2798 Fluocarbon rubber compound used to produce O-rings to prEN 3049 | Rolls Royce PLC ESD 8709 issue 1 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MAY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 27 May 1998
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# The European Association of Aerospace Industries

AECMA

Gulledelle 94 - b.5, B - 1200 BRUSSELS, Belgium - Telephone: (32) 2 775 81 10, Facsimile: (32) 2 775 81 11
Email: info@aecma.org - WWW: http//www.aecma.org

TELEFAX

Number of pages (including this page): 1

| | | | |
|---|---|---|---|
| To: | **Mr John Newnham** | **SPS Technologies** | **44 116 274 0243** |
| From: | **Michel Caillon** | | **(32) 2 775 81 11** |
| Date: | **17 December 1998** | | |
| Ref: | **MC/hw/17942** | | |

**Ref. Your fax of 18 September 1998**
**Subject: PQ Certificate 053**

Dear Mr Newnham,

Further to your fax I may answer you that the partnumbers you mentioned will be incorporated in your certificate 053.

Kind regards,

Michel Caillon
AECMA-CERT Secretary-General

EN 2926-060
EN 3052-040
Added
to 053

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 053 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| ISO8188 | EN3052-050<br>EN3052-080 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11 May 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 053
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS TECHNOLOGIES
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: T.J. Brooks Division
LIEU DE FABRICATION: 191 Barkby Road
HERSTELLUNGSORT: Troon Industrial Area
Leicester LE4 9HX
England

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2576 | Double Hexagon, cold forged bolt<br>EN 2926-050-016 | ESD 8683<br>issue 1 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MAY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 21 May 1999
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

EN2925-050, EN2925-060
EN3006-050, EN3006-060
EN3007-050, EN3007-060
EN3614-050, EN3614-060
EN3686-050, EN3686-060
EN3687-050, EN3687-060
EN3052-050, EN3052-060
EN3052-040, EN2926-060

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 053
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS TECHNOLOGIES LIMITED
NOM DE SOCIETE:
FIRMA: T.J. Brooks Division
191 Barkby Road
PLACE OF MANUFACTURE: Troon Industrial Area
LIEU DE FABRICATION: Leicester LE4 9HX
HERSTELLUNGSORT: England

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2576 | Double Hexagon, cold forged bolt<br>EN 2926-050-016 | ESD 8683<br>issue 1 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MAY 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 27 May 1998
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

EN2925-050, EN2925-060
EN3006-050, EN3006-060
EN3007-050, EN3007-060
EN3614-050, EN3614-060
EN3686-050, EN3686-060
EN3687-050, EN3687-060
EN3052-050, EN3052-060

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 052**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : Senior Aerospace Ermeto
ZA Euro Val de Loire
8 rue du Clos Thomas
41330 FOSSE
France

PLACE OF MANUFACTURE : As above
LIEU DE FABRICATION :
HERSTELLUNGSORT :

ASD-CERT
Certification of Aerospace Standard Products

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3275<br>**Fire Test not Performed** | **Fire Test not Performed**<br>See the Appendix for the Qualified part number list | Report: N°222 for_SAE_ACP005 Form2– 2013/08/30<br>Heinrich Hackmann, CASSIDIAN |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 28/04/2014
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 052 - Appendix 1 for the Qualified part number list

SENIOR AEROSPACE ERMETO - PQ 052 AECMA-CERT

| Products Fitting 8"30' Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 2656<br>EN 3080<br>EN 3081<br>EN 3082<br>EN 3083<br>EN 3084<br>EN 3243<br>EN 3244<br>EN 3245<br>EN 3246<br>EN 3247<br>EN 3264<br>EN 3266<br>EN 3267<br>EN 3268<br>EN 3269<br>EN 3272<br>EN 3273<br>EN 3274<br>EN 3561<br>EN 3688<br>EN 3689<br>EN 3690<br>EN 3691<br>EN 3696<br>EN 4017 (was 3249)<br>EN 4018 (was 3250)<br>EN 4019 (was 3251)<br>EN 4020 (was 3252)<br>EN 4021 (was 3253)<br>EN 4022 (was 3254)<br>EN 4023 (was 3255)<br>EN 4024 (was 3256)<br>EN 4025 (was 3257)<br>EN 4026 (was 3258)<br>EN 4027 (was 3260)<br>EN 4028 (was 3261)<br>EN 4029 (was 3262)<br>EN 4030 (was 3263)<br>EN 4031 (was 3265)<br>EN 4032 (was 3271)<br>EN 4182 (was 3259)<br>EN 4183 (was 3562)<br>EN 4184 (was 3563)<br>EN 4185 (was 3564)<br>EN 4186 (was 3565)<br>EN 4187 (was 3692)<br>EN 4188 (was 3693)<br>EN 4189 (was 3694)<br>EN 4190 (was 3695)<br>EN 4191 (was 3784)<br>EN 4192 (was 3785)<br>EN 4193 (was 3786)<br>EN 4194 (was 3787)<br>EN 4233 (was 3242)<br>EN 4610 | **SENIOR AEROSPACE ERMETO**<br>**Lab B067 (16-09-1996)**<br><br>**DGA Test reports : N°E 450800-01**<br>**+ E 450800-02 final June 1994**<br><br>**EADS GTR-J-290-M-0337-Y issue A**<br>**EADS GTR-J-290-M-0338-Y issue A**<br><br>**SENIOR AEROSPACE ERMETO**<br>**J019 DN10 issue 0 + J019 DN20 issue A**<br><br>**EADS GTR-J-290-M-0329-Y issue A** |

ASD-CERT
Certification of Aerospace Standard Products
Mandated Body Stamp
No 0019
Heinrich Hackmann
Signature: Date 16.12.2013

RT
d Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 052**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Senior Aerospace Ermeto
ZA Euro Val de Loire
8 rue du Clos Thomas
41330 FOSSE
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3275 | See list and amendment attached | See list attached |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2013**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

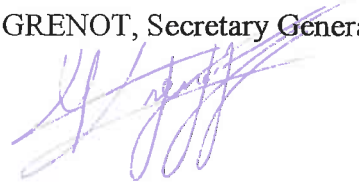
4th October 2010

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry GRENOT, Secretary General, *+33 1 47 65 70 18*



| Products Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 2656<br>EN 3080<br>EN 3081<br>EN 3082<br>EN 3083<br>EN 3084<br>EN 3243<br>EN 3244<br>EN 3245<br>EN 3246<br>EN 3247<br>EN 3264<br>EN 3266<br>EN 3267<br>EN 3268<br>EN 3269<br>EN 3272<br>EN 3273<br>EN 3274<br>EN 3561<br>EN 3688<br>EN 3689<br>EN 3690<br>EN 3691<br>EN 3696<br>EN 4017 (was 3249)<br>EN 4018 (was 3250)<br>EN 4019 (was 3251)<br>EN 4020 (was 3252)<br>EN 4021 (was 3253)<br>EN 4022 (was 3254)<br>EN 4023 (was 3255)<br>EN 4024 (was 3256)<br>EN 4025 (was 3257)<br>EN 4026 (was 3258)<br>EN 4027 (was 3260)<br>EN 4028 (was 3261)<br>EN 4029 (was 3262)<br>EN 4030 (was 3263)<br>EN 4031 (was 3265)<br>EN 4032 (was 3271)<br>EN 4182 (was 3259)<br>EN 4183 (was 3562)<br>EN 4184 (was 3563)<br>EN 4185 (was 3564)<br>EN 4186 (was 3565)<br>EN 4187 (was 3692)<br>EN 4188 (was 3693)<br>EN 4189 (was 3694)<br>EN 4190 (was 3695)<br>EN 4191 (was 3784)<br>EN 4192 (was 3785)<br>EN 4193 (was 3786)<br>EN 4194 (was 3787)<br>EN 4233 (was 3242)<br>EN 4610 | **SENIOR AEROSPACE ERMETO**<br>**Lab B067 (16-09-1996)**<br><br>**DGA Test reports : N°E 450800-01**<br>**+ E 450800-02 final June 1994**<br><br>**EADS GTR-J-290-M-0337-Y issue A**<br>**EADS GTR-J-290-M-0338-Y issue A**<br><br>**SENIOR AEROSPACE ERMETO**<br>**J019 DN10 issue 0 + J019 DN20 issue A**<br><br>**EADS GTR-J-290-M-0329-Y issue A** |

T. GRENOT

| **Only shaped parts,**<br>Products Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 3080<br>EN 4017 (was 3249)<br>EN 4018 (was 3250)<br>EN 4019 (was 3251)<br>EN 4020 (was 3252)<br>EN 4021 (was 3253)<br>EN 4022 (was 3254)<br>EN 4023 (was 3255)<br>EN 4024 (was 3256)<br>EN 4025 (was 3257)<br>EN 4026 (was 3258)<br>EN 4027 (was 3260)<br>EN 4028 (was 3261)<br>EN 4029 (was 3262)<br>EN 4030 (was 3263)<br>EN 4182 (was 3259)<br>EN 4183 (was 3562)<br>EN 4184 (was 3563)<br>EN 4185 (was 3564)<br>EN 4186 (was 3565)<br>EN 4187 (was 3692)<br>EN 4188 (was 3693)<br>EN 4189 (was 3694)<br>EN 4190 (was 3695)<br>EN 4191 (was 3784)<br>EN 4192 (was 3785)<br>EN 4193 (was 3786)<br>EN 4194 (was 3787)<br>EN 4610 | **SENIOR AEROSPACE ERMETO**<br>**Lab B067 (16-09-1996)**<br><br>**DGA Test reports : N°E 450800-01**<br>**+ E 450800-02 final June 1994**<br><br>**EADS GTR-J-290-M-0337-Y issue A**<br>**EADS GTR-J-290-M-0338-Y issue A**<br><br>**SENIOR AEROSPACE ERMETO**<br>**J019 DN10 issue 0 + J019 DN20 issue A**<br><br>**EADS GTR-J-290-M-0329-Y issue A** |

T. GRENOT

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 052** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Senior Aerospace Ermeto
ZA Euro Val de Loire
8 rue du Clos Thomas
41330 FOSSE
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3275 | See list and amendment attached | See list attached |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**May 2010**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

01 October 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

Attachment to PQ 052

Amendment :

- Addition of material "Bar" (EN3311, EN3314), as an alternative to material "Forged" (EN3312, EN3315) for EN shaped parts,
- Introduction of alternative MoS2 3400A Lead-free,
- Improvement of EN3272/EN3273 Lip interface for size Ø14 mm and size Ø20 mm.

| Products Fitting 8°30' Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 2656<br>EN 3080<br>EN 3081<br>EN 3082<br>EN 3083<br>EN 3084<br>EN 3243<br>EN 3244<br>EN 3245<br>EN 3246<br>EN 3247<br>EN 3264<br>EN 3266<br>EN 3267<br>EN 3268<br>EN 3269<br>EN 3272<br>EN 3273<br>EN 3274<br>EN 3561<br>EN 3688<br>EN 3689<br>EN 3690<br>EN 3691<br>EN 3696<br>EN 4017 (was 3249)<br>EN 4018 (was 3250)<br>EN 4019 (was 3251)<br>EN 4020 (was 3252)<br>EN 4021 (was 3253)<br>EN 4022 (was 3254)<br>EN 4023 (was 3255)<br>EN 4024 (was 3256)<br>EN 4025 (was 3257)<br>EN 4026 (was 3258)<br>EN 4027 (was 3260)<br>EN 4028 (was 3261)<br>EN 4029 (was 3262)<br>EN 4030 (was 3263)<br>EN 4031 (was 3265)<br>EN 4032 (was 3271)<br>EN 4182 (was 3259)<br>EN 4183 (was 3562)<br>EN 4184 (was 3563)<br>EN 4185 (was 3564)<br>EN 4186 (was 3565) | **SENIOR AEROSPACE ERMETO Lab B067 (16-09-1996)**<br>**+ DGA Test reports : N° E 450800-01**<br>**+ E 450800-02 final June 1994**<br>**+ EADS GTR-J-290-M-0337-Y issue A**<br>**+ EADS GTR-J-290-M-0338-Y issue A**<br>**+ SENIOR AEROSPACE ERMETO J019 DN10 issue 0**<br>**+ J019 DN20 issue A** |

| Products Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 4187 (was 3692)<br>EN 4188 (was 3693)<br>EN 4189 (was 3694)<br>EN 4190 (was 3695)<br>EN 4191 (was 3784)<br>EN 4192 (was 3785)<br>EN 4193 (was 3786)<br>EN 4194 (was 3787)<br>EN 4233 (was 3242)<br>EN 4610 | **SENIOR AEROSPACE ERMETO Lab B067 (16-09-1996)**<br>**+ DGA Test reports : N° E 450800-01**<br>**+ E 450800-02 final June 1994**<br>**+ EADS GTR-J-290-M-0337-Y issue A**<br>**+ EADS GTR-J-290-M-0338-Y issue A**<br>**+ SENIOR AEROSPACE ERMETO J019 DN10 issue 0**<br>**+ J019 DN20 issue A** |

| **Only shaped parts**,<br>Products Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 3080<br>EN 4017 (was 3249)<br>EN 4018 (was 3250)<br>EN 4019 (was 3251)<br>EN 4020 (was 3252)<br>EN 4021 (was 3253)<br>EN 4022 (was 3254)<br>EN 4023 (was 3255)<br>EN 4024 (was 3256)<br>EN 4025 (was 3257)<br>EN 4026 (was 3258)<br>EN 4027 (was 3260)<br>EN 4028 (was 3261)<br>EN 4029 (was 3262)<br>EN 4030 (was 3263)<br>EN 4182 (was 3259)<br>EN 4183 (was 3562)<br>EN 4184 (was 3563)<br>EN 4185 (was 3564)<br>EN 4186 (was 3565)<br>EN 4187 (was 3692)<br>EN 4188 (was 3693)<br>EN 4189 (was 3694)<br>EN 4190 (was 3695)<br>EN 4191 (was 3784)<br>EN 4192 (was 3785)<br>EN 4193 (was 3786)<br>EN 4194 (was 3787)<br>EN 4610 | **SENIOR AEROSPACE ERMETO Lab B067 (16-09-1996)**<br>**+ DGA Test reports : N° E 450800-01**<br>**+ E 450800-02 final June 1994**<br>**+ EADS GTR-J-290-M-0337-Y issue A**<br>**+ EADS GTR-J-290-M-0338-Y issue A**<br>**+ SENIOR AEROSPACE ERMETO J019 DN10 issue 0**<br>**+ J019 DN20 issue A**<br>**+ EADS GTR-J-290-M-0329-Y issue A** |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT Secretary General
Stéphane Laumond

**Senior Aerospace Ermeto**
**Mr Payneau**
**ZA Euro Val de Loire**
**8 rue du Clos Thomas**
**41330 FOSSE**
**France**

*29 November, 2007*
*Ref: SL/se/2007-PQ52*

**Subject: Product Qualification Certificate PQ52 Renewal**

Dear Mr. Payneau,

Payment for the above PQ Certificate was received on the 18th October 2007, for which many thanks.

Please find attached the final signed version of the Certificate PQ 52.

Best regards,

Stéphane Laumond
ASD-CERT

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 052**
**ZERTIFIKAT NR.** **Amendment**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: **SENIOR AEROSPACE ERMETO**
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: **Z.A. Euro Val de Loire**
LIEU DE FABRICATION: **8, rue du Clos Thomas**
HERSTELLUNGSORT: **F-41330 Fosse**
**France**

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3275 | List Attached.<br>Amendment Attached: Addition of material "Bar" (EN 3311; En 3314), as an alternative to material "Forged" (EN 3312; EN3315) for EN shaped parts. | List attached.<br>See amendment |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MARCH 2007

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 15 March 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

| Products | Report No/Issue /dates |
|---|---|
| Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | DGA Test reports:<br>No E 450800-1<br>E 450800-2 final June 1994<br>S.F.E. Lab B067 16.09.1996<br>DT 153/E September 1996<br>No BEAP2000-127 15.09.2000<br>No JR/90-01-4006 C4/PQ002 ERH001/03/03 dated 19.09.00 |
| EN 2656<br>EN 4233 (3242)<br>EN 3274<br>EN 3243<br>EN 4018 (3250)<br>EN 4020 (3252)<br>EN 4028 (3261)<br>EN 3244<br>EN 3245<br>EN 3246<br>EN 3247<br>EN 4017 (3249)<br>EN 4019 (3251)<br>EN 4021 (3253)<br>EN 4022 (3254)<br>EN 4023 (3255)<br>EN 4024 (3256)<br>EN 4025 (3257)<br>EN 4026 (3258)<br>EN 4027 (3260)<br>EN 4030<br>EN 4029 (3262)<br>EN 4031 (3265)<br>EN 3272<br>EN 3273<br>EN 3264<br>EN 3266<br>EN 3267<br>EN 3268<br>EN 3269<br>EN 4032 (3271)<br>EN 4182 (3259)<br>EN 3561<br>EN 4183 (3562)<br>EN 4184 (3563)<br>EN 4185 (3564)<br>EN 4186 (3565)<br>EN 3688<br>EN 3689<br>EN 3690<br>EN 3691<br>EN 4187 (3692)<br>EN 4188 (3693)<br>EN 4189 (3694)<br>EN 4190 (3695)<br>EN 3696<br>EN 4191 (3784)<br>EN 4192 (3785)<br>EN 4193 (3786)<br>EN 4194 (3787)<br>EN 3081<br>EN 3084 | |

| Only shaped parts,<br>Products Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 4017 (was 3249)<br>EN 4018 (was 3250)<br>EN 4019 (was 3251)<br>EN 4020 (was 3252)<br>EN 4021 (was 3253)<br>EN 4022 (was 3254)<br>EN 4023 (was 3255)<br>EN 4024 (was 3256)<br>EN 4025 (was 3257)<br>EN 4026 (was 3258)<br>EN 4027 (was 3260)<br>EN 4028 (was 3261)<br>EN 4029 (was 3262)<br>EN 4030 (was 3263)<br>EN 4182 (was 3259)<br>EN 4183 (was 3562)<br>EN 4184 (was 3563)<br>EN 4185 (was 3564)<br>EN 4186 (was 3565)<br>EN 4187 (was 3692)<br>EN 4188 (was 3693)<br>EN 4189 (was 3694)<br>EN 4190 (was 3695)<br>EN 4191 (was 3784)<br>EN 4192 (was 3785)<br>EN 4193 (was 3786)<br>EN 4194 (was 3787)<br>EN 4610 | **SENIOR AEROSPACE ERMETO Lab B067 (16-09-1996)**<br>**+ DGA Test reports : N° E 450800-01 + E 450800-02 final June 1994**<br>**+ CETIM Test report 765232/141224/681 (20-04-2004)**<br>**+ EADS Test report GTR-J-290-M-0329-Y issue A (31-07-2004)** |

AECMA-CERT
DRAFT
AEROSPACE INDUSTRIES - CERTIFICATION
Belgium
Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 052**<br>**Amendment** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: **SENIOR AEROSPACE ERMETO**
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: **Z.A. Euro Val de Loire**
LIEU DE FABRICATION: **8, rue du Clos Thomas**
HERSTELLUNGSORT: **F-41330 Fosse**
**France**

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| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
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MARCH 2007

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DATE:
DATE: 15 March 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

Attachment to PQ 052

| Products | Report No/Issue /dates |
|---|---|
| Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | DGA Test reports:<br>No E 450800-1<br>E 450800-2 final June 1994<br>S.F.E. Lab B067 16.09.1996<br>DT 153/E September 1996<br>No BEAP2000-127 15.09.2000<br>No JR/90-01-4006 C4/PQ002 ERH001/03/03 dated 19.09.00 |
| EN 2656<br>EN 4233 (3242)<br>EN 3274<br>EN 3243<br>EN 4018 (3250)<br>EN 4020 (3252)<br>EN 4028 (3261)<br>EN 3244<br>EN 3245<br>EN 3246<br>EN 3247<br>EN 4017 (3249)<br>EN 4019 (3251)<br>EN 4021 (3253)<br>EN 4022 (3254)<br>EN 4023 (3255)<br>EN 4024 (3256)<br>EN 4025 (3257)<br>EN 4026 (3258)<br>EN 4027 (3260)<br>EN 4030<br>EN 4029 (3262)<br>EN 4031 (3265)<br>EN 3272<br>EN 3273<br>EN 3264<br>EN 3266<br>EN 3267<br>EN 3268<br>EN 3269<br>EN 4032 (3271)<br>EN 4182 (3259)<br>EN 3561<br>EN 4183 (3562)<br>EN 4184 (3563)<br>EN 4185 (3564)<br>EN 4186 (3565)<br>EN 3688<br>EN 3689<br>EN 3690<br>EN 3691<br>EN 4187 (3692)<br>EN 4188 (3693)<br>EN 4189 (3694)<br>EN 4190 (3695)<br>EN 3696<br>EN 4191 (3784)<br>EN 4192 (3785)<br>EN 4193 (3786)<br>EN 4194 (3787)<br>EN 3081<br>EN 3084 | |

| Only shaped parts,<br>Products Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | Report No/issue/date |
|---|---|
| EN 4017 (was 3249)<br>EN 4018 (was 3250)<br>EN 4019 (was 3251)<br>EN 4020 (was 3252)<br>EN 4021 (was 3253)<br>EN 4022 (was 3254)<br>EN 4023 (was 3255)<br>EN 4024 (was 3256)<br>EN 4025 (was 3257)<br>EN 4026 (was 3258)<br>EN 4027 (was 3260)<br>EN 4028 (was 3261)<br>EN 4029 (was 3262)<br>EN 4030 (was 3263)<br>EN 4182 (was 3259)<br>EN 4183 (was 3562)<br>EN 4184 (was 3563)<br>EN 4185 (was 3564)<br>EN 4186 (was 3565)<br>EN 4187 (was 3692)<br>EN 4188 (was 3693)<br>EN 4189 (was 3694)<br>EN 4190 (was 3695)<br>EN 4191 (was 3784)<br>EN 4192 (was 3785)<br>EN 4193 (was 3786)<br>EN 4194 (was 3787)<br>EN 4610 | **SENIOR AEROSPACE ERMETO Lab B067 (16-09-1996)**<br>**+ DGA Test reports : N° E 450800-01 + E 450800-02 final June 1994**<br>**+ CETIM Test report 765232/141224/681 (20-04-2004)**<br>**+ EADS Test report GTR-J-290-M-0329-Y issue A (31-07-2004)** |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 052
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SENIOR AEROSPACE ERMETO
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Z.A. Euro Val de Loire
LIEU DE FABRICATION: 8, rue du Clos Thomas
HERSTELLUNGSORT: F-41330 Fosse
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3275 | List attached | List attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MARCH 2007

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 4 May 2004
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

Attachment to PQ 052

| Products | Report No/Issue /dates |
|---|---|
| Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | DGA Test reports:<br>No E 450800-1<br>E 450800-2 final June 1994<br>S.F.E. Lab B067 16.09.1996<br>DT 153/E September 1996<br>No BEAP2000-127 15.09.2000<br>No JR/90-01-4006 C4/PQ002 ERH001/03/03<br>dated 19.09.00 |
| EN 2656<br>EN 4233 (3242)<br>EN 3274<br>EN 3243<br>EN 4018 (3250)<br>EN 4020 (3252)<br>EN 4028 (3261)<br>EN 3244<br>EN 3245<br>EN 3246<br>EN 3247<br>EN 4017 (3249)<br>EN 4019 (3251)<br>EN 4021 (3253)<br>EN 4022 (3254)<br>EN 4023 (3255)<br>EN 4024 (3256)<br>EN 4025 (3257)<br>EN 4026 (3258)<br>EN 4027 (3260)<br>EN 4030<br>EN 4029 (3262)<br>EN 4031 (3265)<br>EN 3272<br>EN 3273<br>EN 3264<br>EN 3266<br>EN 3267<br>EN 3268<br>EN 3269<br>EN 4032 (3271)<br>EN 4182 (3259)<br>EN 3561<br>EN 4183 (3562)<br>EN 4184 (3563)<br>EN 4185 (3564)<br>EN 4186 (3565)<br>EN 3688<br>EN 3689<br>EN 3690<br>EN 3691<br>EN 4187 (3692)<br>EN 4188 (3693)<br>EN 4189 (3694)<br>EN 4190 (3695)<br>EN 3696<br>EN 4191 (3784)<br>EN 4192 (3785)<br>EN 4193 (3786)<br>EN 4194 (3787)<br>EN 3081<br>EN 3084 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 052
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SENIOR FLEXONICS ERMETO
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: 16, Rue Claude Bernard
LIEU DE FABRICATION: F-41000 Blois
HERSTELLUNGSORT: FRANCE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3275 | List attached | List attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

MARCH 2004

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 2 March 2001
DATE:
DATUM:

PLACE: Brussels
A:
ORT

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

| Products | Report No/Issue /dates |
|---|---|
| Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | DGA Test reports:<br>No E 450800-1<br>E 450800-2 final June 1994<br>S.F.E. Lab B067 16.09.1996<br>DT 153/E September 1996<br>No BEAP2000-127 15.09.2000<br>No JR/90-01-4006 C4/PQ002 ERH001/03/03 dated 19.09.00 |
| EN 2656<br>EN 4233 (3242)<br>EN 3274<br>EN 3243<br>EN 4018 (3250)<br>EN 4020 (3252)<br>EN 4028 (3261)<br>EN 3244<br>EN 3245<br>EN 3246<br>EN 3247<br>EN 4017 (3249)<br>EN 4019 (3251)<br>EN 4021 (3253)<br>EN 4022 (3254)<br>EN 4023 (3255)<br>EN 4024 (3256)<br>EN 4025 (3257)<br>EN 4026 (3258)<br>EN 4027 (3260)<br>EN 4030<br>EN 4029 (3262)<br>EN 4031 (3265)<br>EN 3272<br>EN 3273<br>EN 3264<br>EN 3266<br>EN 3267<br>EN 3268<br>EN 3269<br>EN 4032 (3271)<br>EN 4182 (3259)<br>EN 3561<br>EN 4183 (3562)<br>EN 4184 (3563)<br>EN 4185 (3564)<br>EN 4186 (3565)<br>EN 3688<br>EN 3689<br>EN 3690<br>EN 3691<br>EN 4187 (3692)<br>EN 4188 (3693)<br>EN 4189 (3694)<br>EN 4190 (3695)<br>EN 3696<br>EN 4191 (3784)<br>EN 4192 (3785)<br>EN 4193 (3786)<br>EN 4194 (3787)<br>EN 3081<br>EN 3084 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | PQ 052 |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: SENIOR FLEXONICS ERMETO

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 16, Rue Claude Bernard
F-41000 Blois
FRANCE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3275 | list attached | list attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

OCTOBER 2000

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 10 October 1997
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

| Products | Report No/issue/date |
|---|---|
| Fitting 8°30'<br>Titanium alloy up to 28000 Kpa | DGA Test reports:<br>No E 450800-01<br>E 450800-02 final June 1994<br>S.F.E. Lab B067 16.09.1996<br>DT 153/E September 1996 |
| prEN 2656<br>prEN 4233 (3242)<br>prEN 3274<br>prEN 3243<br>prEN 4018 (3250)<br>prEN 4020 (3252)<br>prEN 4028 (3261)<br>prEN 3244<br>prEN 3245<br>prEN 3246<br>prEN 3247<br>prEN 4017 (3249)<br>prEN 4019 (3251)<br>prEN 4021 (3253)<br>prEN 4022 (3254)<br>prEN 4023 (3255)<br>prEN 4024 (3256)<br>prEN 4025 (3257)<br>prEN 4026 (3258)<br>prEN 4027 (3260)<br>prEN 4030 (3263)<br>prEN 4029 (3262)<br>prEN 4031 (3265)<br>prEN 3272<br>prEN 3273<br>prEN 3264<br>prEN 3266<br>prEN 3267<br>prEN 3268<br>prEN 3269<br>prEN 4032 (3271)<br>prEN 4182 (3259)<br>prEN 3561<br>prEN 4183 (3562)<br>prEN 4184 (3563)<br>prEN 4185 (3564)<br>prEN 4186 (3565)<br>prEN 3663<br>prEN 3688<br>prEN 3689<br>prEN 3690<br>prEN 3691<br>prEN 4187 (3692)<br>prEN 4188 (3693)<br>prEN 4189 (3694)<br>prEN 4190 (3695)<br>prEN 3696<br>prEN 4191 (3784)<br>prEN 4192 (3785)<br>prEN 4193 (3786)<br>prEN 4194 (3787)<br>prEN 3788<br>prEN 3789<br>prEN 3790 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.** PQ 051
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: BLANC AERO INDUSTRIES
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: 18 Rue Jean Vaurs
LIEU DE FABRICATION: F-12202 Villefranche de Rouergue
HERSTELLUNGSORT: FRANCE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3004<br>EN 3005 | Nuts, self-locking<br>prEN 2911-050<br>prEN 3637-120 | BAI-JPC/GP/12173-02/97<br>BAI-JPC/GP/12345-04/97 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

OCTOBER 2000

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 10 October 1997
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | PQ 050 |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: A.F. AEROSPACE LTD

PLACE OF MANUFACTURE: 2 Chariot Way
LIEU DE FABRICATION: Glebe Farm Industrial Estate
HERSTELLUNGSORT: Rugby CV21 1DA UNITED KINGDOM

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN3275 | see attached list | BAE-WDO-RP-GEN-160702-851 issue 1 11/06/97 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

September 2000

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 17 September 1997

PLACE:
A:
ORT: Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:



| AECMA - Product Standards | |
|---|---|
| EN3242 | (EN4233) |
| EN3243 | |
| EN3244 | |
| EN3245 | |
| EN3246 | |
| EN3247 | |
| EN3249 | (EN4017) |
| EN3250 | (EN4018) |
| EN3251 | (EN4019) |
| EN3252 | (En4020) |
| EN3253 | (EN4021) |
| EN3254 | (EN4022) |
| EN3255 | (EN4023) |
| EN3256 | (EN4024) |
| EN3257 | (EN4025) |
| EN3258 | (EN4026) |
| EN3259 | (EN4182) |
| EN3260 | (EN4027) |
| EN3261 | (EN4028) |
| EN3262 | (EN4029) |
| EN3263 | (EN4030) |
| EN3264 | |
| EN3265 | (EN4031) |

| AECMA - Product Standards | |
|---|---|
| EN3266 | |
| EN3267 | |
| EN3268 | |
| EN3269 | |
| EN3271 | (EN4032) |
| EN3561 | |
| EN3562 | (EN4183) |
| EN3563 | (EN4184) |
| EN3564 | (EN4185) |
| EN3565 | (EN4186) |
| EN3690 | |
| EN3691 | |
| EN3692 | (EN4187) |
| EN3693 | (EN4188) |
| EN3694 | (EN4189) |
| EN3695 | (EN4190) |
| EN3696 | |
| EN3784 | (EN4191) |
| EN3785 | (EN4192) |
| EN3786 | (EN4193) |
| EN3787 | (EN4194) |
| EN3789 | |
| EN3790 | |

With the exemption of the following

Tee Pieces EN3261 (EN4028), Diameters 20mm & 28mm

Tee Pieces EN3695 (EN4190), Diameters 20mm & 28mm

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 049
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

SPS TECHNOLOGIES LTD
191 Barkby Road
Leicester LE4 9HX
ENGLAND

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3005<br>EN 3005 | Self locking nut<br>EN 3637-100<br>EN 3672-050 | Rolls Royce PLC<br>ESD 8321 Nov. '91<br>C8/0157 May '91 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2000

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

25 June 1997

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**Nº DE CERTIFICAT** PQ 048
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: APD
LIEU DE FABRICATION: 2701 South Harbor Boulevard
HERSTELLUNGSORT: Santa Ana
California 92702
USA

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report Nº./Issue/Date |
|---|---|---|
| prEN 3152 | Self locking clip nut<br>EN 3241-050 | Rolls Royce<br>ESD 8514<br>25 April 1997 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

May 2000

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 28 May 1997
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**Nº DE CERTIFICAT** **PQ 047**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: **Blanc-Aero Industries**
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: **Usine de Villefranche de Rouergue**
LIEU DE FABRICATION: **18, Rue Jean Vaurs**
HERSTELLUNGSORT: **F-12200 Villefranche de Rouergue**
**France**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 7689 see (1)<br>ISO 8168 see (2)<br>ISO 9152 see (3)<br>ISO 9154 see (4) | Bolts | Dassault Aviation<br>DGQT/ST 961873<br>20 December 1996 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2000**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 07 March 1997

PLACE:
A:
ORT: Bruxelles

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

| (1) EN's | (2) EN's | (3) EN's | (4) EN's |
|---|---|---|---|
| 2413 2859 | 3052 3038 | 2549 2870 | 2874 3444 |
| 2897 3035 | 3543 3381 | 2884 3037 | 4128 4131 |
| 3303 3305 | | 3304 3381 | 4134 |
| 4073 4129 | | 3740 3820 | |
| 4132 4136 | | 4071 4072 | |
| 4138 4161 | | 4074 4127 | |
| 4162 4163 | | 4130 4133 | |
| | | 4135 4137 | |
| | | 4178 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 046**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: **SIMMONDS S.A.**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: **Usine de Champaissant**
**72110 Saint Cosme en Vairais**
**France**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ISO 5858/ EN's 2647; 2648<br>2680; 2752; 2753; 2754; 2856<br>2866; 2882; 3626; 3653; 3712<br>3753; 4084 | Nuts | Dassault Aviation<br>DGQT/ST 96/603<br>3 May 1996 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**March 2000**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 07 March 1997
DATUM:

PLACE:
A: Bruxelles
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, Rue Jean-Jacques Rousseau
F-92138 Issy-les-Moulineaux Cédex

Gulledelle 94
B-1200 Bruxelles
Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 045**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: BLANC AERO INDUSTRIES
NOM DE SOCIETE: France
FIRMA:

PLACE OF MANUFACTURE: Usine de Villaroche de Rouergue
LIEU DE FABRICATION: 18, Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of EN 3042 in respect of the following standards:
a satisfait les exigences de l'EN 3042 en ce qui concerne les normes suivantes:
die Forderungen der EN 3042 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3005 | EN 3013-100<br>EN 4120-050<br>EN 4120-060 | BAI N° JPC/GP/9665<br>BAI N° JPC/GP/9907<br>BAI N° JPC/GP/9908 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**January 2000**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 28 January 1997
DATE:
DATUM:

PLACE: ISSY-LES-MOULINEAUX
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, Rue Jean-Jacques Rousseau
F-92138 Issy-les-Moulineaux Cédex

Gulledelle 94
B-1200 Bruxelles
Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** PQ 044

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: BLANC AERO INDUSTRIES
NOM DE SOCIETE: France
FIRMA:

PLACE OF MANUFACTURE: Usine de Villaroche de Rouergue
LIEU DE FABRICATION: 18, Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3152 | EN 4116-060 | BAI N° JPC/GP/10457 |
| EN 3005 | EN 4124-050 | BAI N° JPC/GP/10456 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**October 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 25 October 1996
DATE:
DATUM:

PLACE: ISSY-LES-MOULINEAUX
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

Mr Terry Adcock
Quality Assurance Manager
Linread/Northbridge
Viking Road
Wigston
GB-Leicester LE18 2BL

19 February 1996
CERT/Sec/0186

**Subject: Conversion of C8 Certificates**

Dear Mr Adcock

Following the approval of the Quality Assurance System of your company, please find enclosed the AECMA-CERT product qualification certificates PQ 040 to PQ 043 which are converted from the existing C8 Certificates held by your company.

The qualified products will be incorporated in the next edition of TR 3040-2.

Thank you for your cooperation.

Kind regards

G. Hillenherms

Mr. Feltham

# AECMA-CERT

## THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 043**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: LINREAD/NORTHBRIDGE
FIRMA: Great Britain

PLACE OF MANUFACTURE: Viking Road
LIEU DE FABRICATION: Wigston
HERSTELLUNGSORT: LEICESTER LE18 2BL

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 3302** | ***Bolts/Vis/Schrauben: FE-PM 38 (FV 535)***<br><br>***EN 3301-080, -100***<br>***EN 3323-080, -100, -120***<br>***EN 3324-080, -100, -120***<br>***EN 3328-080, -100, -120*** | ***C8 N° 0100, Issue 1; 01. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

## THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 042**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: LINREAD/NORTHBRIDGE
FIRMA: Great Britain

PLACE OF MANUFACTURE: Viking Road
LIEU DE FABRICATION: Wigston
HERSTELLUNGSORT: LEICESTER LE18 2BL

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2582** | ***Bolts/Vis/Schrauben NI-P101 HT(WASPALOY)***<br>***EN 2929 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 2930 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3010 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3011 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3063 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3294 -050/ -060/ -070/ -080/ -100***<br>***EN 3379 -050/ -060/ -070/ -080/ -100/ -120*** | ***C8 N° 0023/Issue 1; 11. 88***<br><br>***C8 N° 0089, Issue1; 10. 89*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 81 26
Fax +32 2 775 81 31

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**Renewal - PQ 041**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Alcoa Fastening Systems (Linread Northbridge)
Viking Road, Wigston
Leicester, LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2927-060 | Report: N°230 for ALCOA<br>ACP005 Form2– 2013/07/19<br>Keith ALLEN<br>ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**September 2016**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

27/08/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

ASD-CERT Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 041**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LINREAD NORTHBRIDGE
Viking road, WIGSTON
LEICESTER LE18 2BL
UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2927-060 series | ESD 9421 - 17/11/2009<br>M. STOCK / K. ALLEN - ROLLS-ROYCE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**NOVEMBER 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 18 November 2009
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33.1.47.65.70.18*
SIGNATURE :
UNTERSCHRIFT

# AECMA-CERT

## THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 041** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: LINREAD/NORTHBRIDGE
Great Britain

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: Viking Road
Wigston
LEICESTER LE18 2BL

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2583** | ***see annex*** | ***C8 N° 0022, Issue 1; 11. 88***<br><br>***C8 N° 0055, Issue1; 04.1989***<br><br>***C8 N° 0116, Issue1; 03.1990*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 16 February 1996

PLACE:
A:
ORT: ISSY-LES-MOULINEAUX

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

Annex CERTIFICATE PQ 041 (LINREAD/NORTHBRIDGE)

**Products / Produits / Erzeugnisse :**

Bolts / Vis/ Schrauben : Ni-P100HT (INCO 718)

EN 2927 -050/ -060/ -070/ -080/ -100/ -120
EN 2928 -050/ -060/ -070/ -080/ -100/ -120
EN 2933 -050/ -060/ -070
EN 2934 -050/ -060/ -070
EN 3008 -050/ -060/ - 070/ -080/ -100/ -120
EN 3009 -050/ -060/ - 070/ -080/ -100/ -120
EN 3293 -050/ -060/ - 070/ -080/ -100
EN 3326 -050/ -060/ - 070/ -080/ -100
EN 3327 -050/ -060/ - 070/ -080/ -100/ -120
EN 3613 -050/ -060/ - 070/ -080

# AECMA-CERT

## THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 040**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: LINREAD/NORTHBRIDGE
FIRMA: Great Britain

PLACE OF MANUFACTURE: Viking Road
LIEU DE FABRICATION: Wigston
HERSTELLUNGSORT: LEICESTER LE18 2BL

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2576** | ***Bolts/Vis/Schrauben Fe-PA 92 HT (A286)***<br>***EN 2925 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 2926 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 2931 -050/ -060/ -070***<br>***EN 2932 -050/ -060/ -070***<br>***EN 3006 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3007 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3614 -050/ -060/ -070/ -080*** | ***C8 N° 0021/Issue 1; 11. 88***<br><br>***C8 N° 0082, Issue1; 09. 89***<br><br>***C8 N° 0089, Issue 1; 01. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 039 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3302 | EN3301-050 , EN3323-050 , EN3324-050 , EN3325-050 , EN3328-050 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

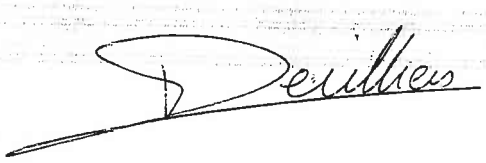
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 039
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: 191 Barkby Road
Troon Industrial Area
PLACE OF MANUFACTURE: Leicester LE4 7HX
LIEU DE FABRICATION: Great Britain
HERSTELLUNGSORT:

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

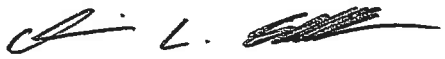
DATE: 27 June 2000
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 039**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Bolt T FE-PM38<br>EN3301-50 | 3302 | C8 No 0026<br>Issue 1; 01.1989 |
| Bolt double hexagon FE-PM38<br>EN3323-50 | 3302 | |
| Bolt hexagon FE-PM38<br>EN3324-50 | 3302 | |
| Bolt T FE-PM38<br>EN3325-50 | 3302 | |
| Bolt double hexagon FE-PM38<br>EN3328-50 | 3302 | |



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 039**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 3302** | ***Bolts/Vis/Schrauben: FE-PM 38 (FV 535)***<br><br>***EN 3301 -050, -060***<br>***EN 3323 -050, -060***<br>***EN 3324 -050, -060***<br>***EN 3328 -050, -060*** | ***C8 N° 0026,***<br>***Issue 1; 01. 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

February 1999

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 038 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2582 | See attachment | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 11 May 2009
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :



## PRODUCTS LIST

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse |
|---|---|
| EN2582 | EN2930-050, -060, -070, -080, -100<br>EN2935-050, -060, -070, -080, -100<br>EN2936-050, -060, -070, -080, -100<br>EN3010-050, -060, -070, -080, -100<br>EN3011-050, -060, -070, -080, -100<br>EN3063-050, -060, -070, -080, -100<br>EN3294-060, -070, -080<br>EN3379-050, -060, -070, -080, -100 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 038
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: SPS Technologies Ltd.
T.J. Brooks Division

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 191 Barkby Road
Troon Industrial Area
Leicester LE4 7HX
Great Britain

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 27 June 2000
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 038**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Bolt double hexagon NI-P101HT EN2929-50, -60, -70, -80, -100 | 2582 | C8 No 0015, 0016 0017, 0018; Issue 1, 10.88 |
| Bolt double hexagon NI-P101HT EN2930-50, -60, -70, -80, -100 | 2582 | |
| Bolt T NI-P101HT EN2935-50, -60, -70, -80, -100 | 2582 | |
| Bolt T NI-P101HT EN2936-50, -60, -70, -80, -100 | 2582 | |
| Bolt hexagon NI-P101HT EN3010-50, -60, -70, -80, -100 | 2582 | |
| Bolt hexagon NI-P101HT EN3011-50, -60, -70, -80, -100 | 2582 | |
| Bolt hexagon NI-P101HT EN3063-50, -60, -70, -80, -100 | 2582 | |
| Bolt T NI-P101HT EN3294-50, -60, -70, -80, -100 | 2582 | |
| Bolt double hexagon NI-P101HT EN3379-50, -60, -70, -80, -100 | 2582 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 038**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2582** | ***Bolts/Vis/Schrauben NI-P101 HT(WASPALOY)***<br>***EN 2929 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 2930 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 2935 -050/ -060***<br>***EN 2936 -050/ -060***<br>***EN 3010 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3011 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3063 -050/ -060/ -070/ -080/ -100/ -120***<br>***EN 3294 -050/ -060/ -070/ -080/ -100***<br>***EN 3379 -050/ -060/ -070/ -080/ -100/ -120*** | ***C8 N° 0015, 0016, 0017, 0018;***<br>***Issue 1, 10. 88*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

February 1999

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 037 - Renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | SPS TECHNOLOGIES Ltd<br>191 Barkby Road -Troon Industrial Estate -Thurmaston<br>LEICESTER, LE4 9HX<br>UNITED KINGDOM |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2928-070 | MBR Report N°289 – SPS- ACP005-Form 2 Date 2014-11<br>Keith ALLEN Rolls-Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**August 2018**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 17/07/2015 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Thierry Grenot, Secretary General, *+33 1 47 65 70 18* |

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 037 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | See attachment | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

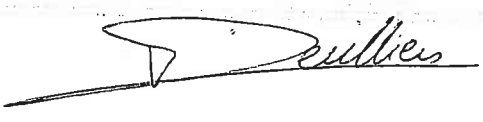
11 May 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



## PRODUCTS LIST

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse |
|---|---|
| EN2583 | EN2933-050, -060, -070, -080, -100, -120<br>EN2934-050, -060, -070, -080, -100, -120<br>EN3008-070, -080, -100, -120<br>EN3009-050, -060, -070, -080, -100, -120<br>EN3293-050, -080, -100, -120<br>EN3327-070, -120<br>EN3613-060, -070, -080, -100, -120<br>EN4009-050, -060, -070, -080, -100, -120 |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | PQ 037 |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:
SPS Technologies Ltd.
T.J. Brooks Division
191 Barkby Road
Troon Industrial Area

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:
Leicester LE4 7HX
Great Britain

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:
27 June 2000

PLACE:
A:
ORT:
Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 037**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Bolt, double hexagon NI-P100HT<br>EN2927-50, -60, -70, -80, -100, -120 | 2583 | C8 No 0013, 0014,<br>0027, 0028<br>Issue 1; 10.88; 01.89 |
| Bolt, double hexagon NI-P100HT<br>EN2928-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, T NI-P100HT<br>EN2933-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, T NI-P100HT<br>EN2934-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, hexagon NI-P100HT<br>EN3008-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, hexagon NI-P100HT<br>EN3009-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, T NI-P100HT<br>EN3293-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, D NI-P100HT<br>EN3326-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, double hexagon NI-P100HT<br>EN3327-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, bi- hexagonal nickel base<br>EN3444-50, -60, -70, -80, -100, -120 | ISO 9154 | |
| Bolt, normal hexagon NI-P100HT<br>EN3613-50, -60, -70, -80, -100, -120 | 2583 | |
| Nut, slotted hexagon<br>TR3832-50, -60, -70, -80, -100, -120 | | |
| Bolt, double hexagon NI-P100HT<br>EN4009-50, -60, -70, -80, -100, -120 | 2583 | |
| Bolt, normal hexagon nickel base<br>EN4128-50, -60, -70, -80, -100, -120 | ISO 9154 | |
| Bolt, normal hexagon nickel base<br>EN4131-50, -60, -70, -80, -100, -120 | ISO 9154 | |
| Bolt, normal hexagon nickel base<br>EN4134-50, -60, -70, -80, -100, -120 | ISO 9154 | |
| Bolt, double hexagon & holes NI-PH2601<br>EN4321-50, -60, -70, -80, -100, -120 | 3833 | |

# AECMA-CERT

## THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 037** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daβ der Hersteller

| | |
|---|---|
| COMPANY NAME:<br>NOM DE SOCIETE:<br>FIRMA: | SPS Technologies Ltd.<br>T.J. Brooks Division<br>Great Britain |
| PLACE OF MANUFACTURE:<br>LIEU DE FABRICATION:<br>HERSTELLUNGSORT: | 191 Barkby Road<br>Troon Industrial Area<br>Leicester LE4 7HX |

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2583** | ***see annex*** | ***C8 N° 0013, 0014, 0027, 0028, Issue 1; 10. 88; 01.89*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

February 1999

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

Annex CERTIFICATE PQ 037 (SPS Technologies)

**Products / Produits / Erzeugnisse :**

Bolts / Vis/ Schrauben : Ni-P100HT (INCO 718)

EN 2927 -050/ -060/ -070/ -080/ -100/ -120
EN 2928 -050/ -060/ -070/ -080/ -100/ -120
EN 2933 -050/ -060/ -080/ -100/ -120
EN 2934 -050/ -060/ -080/ -100/ -120
EN 3008 -050/ -060/ -070/ -080/ -100/ -120
EN 3009 -050/ -060/ -070/ -080/ -100/ -120
EN 3293 -050/ -060/ -070/ -080/ -100
EN 3326 -050/ -060/ -070/ -080/ -100
EN 3327 -050/ -060/ -070/ -080/ -100/ -120
EN 3613 -050/ -060/ -070/ -080

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 036 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2576 | EN3006-080<br>EN3007-080 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

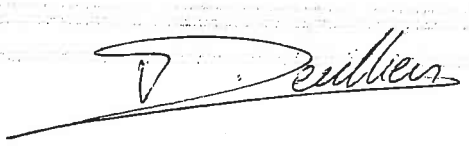
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 11 May 2009
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
UNTERSCHRIFT :



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**Nº DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | PQ 036 |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: 191 Barkby Road
Troon Industrial Area
PLACE OF MANUFACTURE: Leicester LE4 7HX
LIEU DE FABRICATION: Great Britain
HERSTELLUNGSORT:

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report Nº./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 27 June 2000
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 036**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Bolt, double hexagon FE-PA92HT EN2925-80 | 2576 | C8 No 0029, Issue 1; 02.89 |
| Bolt, double hexagon FE-PA92HT EN2926-80 | 2576 | |
| Bolt, hexagon FE-PA92HT EN3006-80 | 2576 | |
| Bolt, double hexagon FE-PA92HT EN3007-80 | 2576 | |
| Bolt, normal hexagon TR 3775 EN3052-80 | ISO 8168 | |
| Bolt, normal hexagon FE-PA92HT EN3614-80 | 2576 | |
| Bolt, double hexagon FE-PA92HT EN3686-80 | 3685 | |
| Bolt, normal hexagon FE-PA92HT EN3687-80 | 3685 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 036**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2576** | ***Bolts/Vis/Schrauben Fe-PA 92 HT (A286)***<br>*EN 2925 -080/-100/-120*<br>*EN 2926 -080/-100/-120*<br>*EN 3006 -080/-100/-120*<br>*EN 3007 -080/-100/-120*<br>*EN 3614 -080/-100/-120* | ***C8 N° 0029,***<br>***Issue 1;02. 89*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: **ISSY-LES-MOULINEAUX**
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 035 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3637-050, -060<br>EN4120-050, -060 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | PQ 035 |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

SPS Technologies ltd.
T.J. Brooks Division
191 Barkby Road
Troon Industrial Area

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

Leicester LE4 7HX
Great Britain

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

27 June 2000

PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 035**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Nut, bi-hexagonal NI-P101HT EN3637-50, -60 | 3005 | C8/No 0102, Issue 1; 02.90 C8/No 0138, Issue 1; 08.90 |
| Nut, bi-hexagonal NI-P101HT EN4120-50, -60 | 3005 | |

# AECMA-CERT

## THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 035**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3005*** | ***Nuts, self-locking, bi-hexagonal (double reduced), NI-P101 HT (Waspaloy)***<br><br>***EN 3637-050, -060*** | ***C8/N° 0102, Issue 1; 02. 90***<br><br>***C8/N° 0138, Issue 1; 08. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 034 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3005 | EN3239-050, -060, -070, -080, -120 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

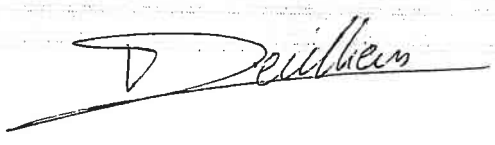
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11 May 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | PQ 034 |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:
SPS Technologies Ltd.
T.J. Brooks Division

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:
191 Barkby Road
Troon Industrial Area
Leicester LE4 7HX
Great Britian

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:
27 June 2000

PLACE:
A:
ORT:
Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 034**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Nut, bi-hexangonal NI-P101HT<br>EN 3013-50, -60, -70, -80, -120 | 3005 | C8/No 0003, 0004<br>0012, 0047, 0053<br>Issue 1/1987, 1988 |
| Nut, bi-hexangonal NI-P101HT<br>EN3239-50, -60, -70, -80, -120 | 3005 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

## PRODUCT QUALIFICATION
## QUALIFICATION DE PRODUIT
## ERZEUGNIS-QUALIFIKATION

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 034**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3005*** | ***Nuts, self-locking, bi-hexagonal,***<br>***Ni-P101 HT(Waspaloy), silver plated***<br><br>***EN 3013-050, -060, -070, -080, -120*** | ***C8/N° 0003, 0004,***<br>***0012, 0047, 0053,***<br>***Issue 1/1987, 1988*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 033 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN4121-050<br>EN4121-060 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
11 May 2009

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 033
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: 191 Barkby Road
Troon Industrial Area
PLACE OF MANUFACTURE: Leicester LE4 7HX
LIEU DE FABRICATION: Great Britain
HERSTELLUNGSORT:

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 27 June 2000
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 033**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Nut shank FE-PA92HT<br>EN2911-50, -60, -80 | 3004 | C8/No 0006, 0007,<br>0008, Issue 1; 09.88<br>C8/No 0050;<br>Issue 1; 02.88 |
| Nut bi-hexangonal FE-PA92HT<br>EN4121-50, -0, -80 | 3004 | |

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 033**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Shank nuts, self-locking, bi-hexagonal, FE-PA92 HT (A286), silver plated***<br><br>***EN 2911-050, -060, -070, -080,*** | ***C8/N° 0006, 0007, 0008, Issue 1; 09. 88***<br><br>***C8/N° 0050; Issue 1; 02. 88*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - AEROSPACE INDUSTRIES - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 032
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: 191 Barkby Road
Troon Industrial Area
PLACE OF MANUFACTURE: Leicester LE4 7HX
LIEU DE FABRICATION: Great Britain
HERSTELLUNGSORT:

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| See attached | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 27 June 2000
DATE:
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 032**

| PRODUCTS | Applicable Standard | Report No./Issue/Date |
|---|---|---|
| Nut bi-hexagonal FE-PA92HT<br>EN2909-50, -60, -70, -80, -100 | 3004 | C8/No 0009, 0010,<br>Issue 1; 09.88<br>C8/No 0048, 0049<br>Issue 1; 08.87<br>C8/No 0051, Issue 1; 12.87<br>C8/No 0052, Issue 1; 01.88<br>C8/No 0054, Issue 1; 03.88 |



# AECMA-CERT

## THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 032**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal, deep count***<br>***FE-PA92 HT (A286), silver plated***<br><br>***EN 2909-050, -060, -070, -080, -100, -120, -140*** | ***C8/N° 0009, 0010, Issue 1; 09. 88***<br>***C8/N° 0048, 0049, Issue 1; 08. 87***<br>***C8/N° 0051, Issue 1; 12. 87***<br>***C8/N° 0052, Issue 1; 01. 88***<br>***C8/N° 0054, Issue 1; 03. 88*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 031 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
SPS TECHNOLOGIES Ltd
191 Barkby Road -Troon Industrial Estate -Thurmaston
LEICESTER, LE4 9HX - UNITED KINGDOM

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN4118-050, -060, -070, -080, -100, -120<br>EN4119-050, -060, -070, -080, -100, -120 | ESD9305<br>16 March 2007<br>Keith Allen - Rolls Royce |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

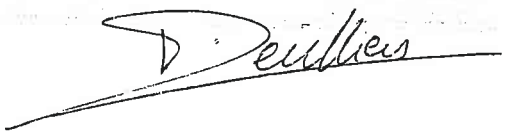
**MAY 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
11 May 2009

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | PQ 031 |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA:

SPS Technologies Ltd.
T.J. Brooks Division
191 Barkby Road
Troon Industrial Area

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT:

Leicester LE4 7HX
Great Britain

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 3004 | See attached | See attached |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

JUNE 2003

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM:

27 June 2000

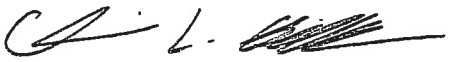
PLACE:
A:
ORT:

Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

**PQ 031**

| **PRODUCTS** | **Report No./Issue/Date** |
|---|---|
| Nut, bi-hexagonal FE-PA92HT<br>EN2907-50, -60, -70, -80, -100, -120 | C8/No 0009, 0010,<br>Issue 1; 09. 88 |
| Nut, bi-hexagonal FE-PA92HT<br>EN4118-50, -60, -70, -80, -100, -120 | C8/No 0048, 0049<br>Issue 1; 08, 87 |
| Nut, bi-hexagonal FE-PA92HT<br>EN4119-50, -60, -70, -80, -100, -120 | C8/No 0051, Issue 1; 12. 87<br>C8/No 0052, Issue 1; 01.88<br>C8/No 0054, Issue 1; 03.88 |



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 031**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SPS Technologies Ltd.
NOM DE SOCIETE: T.J. Brooks Division
FIRMA: Great Britain

PLACE OF MANUFACTURE: 191 Barkby Road
LIEU DE FABRICATION: Troon Industrial Area
HERSTELLUNGSORT: Leicester LE4 7HX

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal:***<br>***FE-PA92 HT (A286), silver plated***<br><br>***EN 2907-050, -060, -070, -080, -100, -120, -140*** | ***C8/N° 0009, 0010, Issue 1; 09. 88***<br>***C8/N° 0048, 0049, Issue 1; 08. 87***<br>***C8/N° 0051, Issue 1; 12. 87***<br>***C8/N° 0052,Issue 1; 01. 88***<br>***C8/N° 0054, Issue 1; 03. 88*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 030 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2582 | EN2936-050, -060, -070 | Report - January 2009<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 26 June 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

Mr C. Fauchet
Directeur Technique Groupe
BLANC AERO INDUSTRIES
15, rue Lasson
F-75012 PARIS

19 February 1996
CERT/Sec/0185

**Subject: Conversion of C8 Certificates**

Dear Mr Fauchet

Following the approval of the Quality Assurance System of your company, please find enclosed the AECMA-CERT product qualification certificates PQ 020 to PQ 030 which are converted from the existing C8 Certificates held by your company.

The qualified products will be incorporated in the next edition of TR 3040-2.

Thank you for your cooperation.

Kind regards

G. Hillenherms

Copy: Mr Tasseau

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 030**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2582** | ***Bolts/Vis/Schrauben NI-P101 HT(WASPALOY)***<br>***EN 2929 -050/ -060/ -070/ -080/ -100***<br>***EN 2930 -050/ -060/ -070/ -080/ -100***<br>***EN 2935 -050/ -060/ -070***<br>***EN 2936 -050/ -060/ -070***<br>***EN 3010 -050/ -060/ -070/ -080/ -100***<br>***EN 3011 -050/ -060/ -070/ -080/ -100***<br>***EN 3063 -050/ -060/ -070/ -080/ -100***<br>***EN 3294 -050/ -060/ -070/ -080/ -100***<br>***EN 3379 -050/ -060/ -070/ -080/ -100*** | ***C8 N° 0094/Issue1/ 12. 89***<br><br>***C8 N° 0095/Issue1/ 12. 89***<br><br>***C8 N° 0096/Issue1/ 12. 89*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 029 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2583 | EN2934-050, -060, -070<br>EN3613-050, -070 | Report - January 2009<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
26 June 2009

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 029**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2583** | *see annex* | ***C8 N° 0119, Issue 1 04. 90***<br><br>***C8 N° 0121, Issue 1 04. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

Annex CERTIFICATE PQ 029

**Products / Produits / Erzeugnisse :**

Bolts / Vis/ Schrauben : Ni-P100HT (INCO 718)

EN 2927 -050/ -060/ -070/ -080/ -100/ -120
EN 2928 -050/ -060/ -070/ -080/ -100/ -120
EN 2933 -050/ -060/ -070
EN 2934 -050/ -060/ -070
EN 3008 -050/ -060/ - 070/ -080/ -100/ -120
EN 3009 -050/ -060/ - 070/ -080/ -100/ -120
EN 3293 -050/ -060/ - 070/ -080/ -100
EN 3326 -050/ -060/ - 070/ -080/ -100
EN 3327 -050/ -060/ - 070/ -080/ -100/ -120
EN 3613 -050/ -060/ - 070/ -080

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

## PRODUCT QUALIFICATION
## QUALIFICATION DE PRODUIT
## ERZEUGNIS-QUALIFIKATION

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 028**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2576** | ***Bolts/Vis/Schrauben Fe-PA 92 HT (A286)***<br>***EN 2925 -050,-060,-070,-080, -100, -120***<br>***EN 2926 -050,-060,-070,-080, -100, -120***<br>***EN 3006,-050,-060,-070,-080, -100, -120***<br>***EN 3007,-050,-060,-070,-080, -100, -120***<br>***EN 3614 -050,-060,-070,-080, -100, -120*** | ***C8 N° 0117, 0118, Issue 1; 04. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 027 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3752 | EN3723-080, -100 | Report - January 2009<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

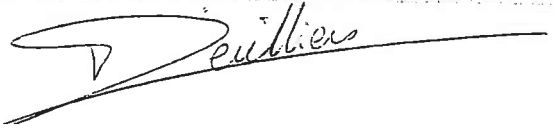
**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 26 June 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 027**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br><br>***EN 3752*** | ***Nuts, hexagonal, self-locking***<br>***FE-PA92HT(A286), $MoS_2$ coated***<br><br>***EN 3723-080, -100*** | ***C8 N° 0170,***<br>***Issue 1; 08. 91***<br><br>***C8 N° 0171,***<br>***Issue; 08. 91*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 026 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3152 | EN3377-040, -050, -100 | Report - January 2009<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

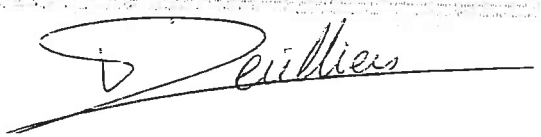
26 June 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 026**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3152*** | ***Nuts, self-locking, hexagonal,***<br>***FE-PA92 HT (A286)***<br><br>***EN 3033-040, -050, -100***<br>***EN 3377-040, -050, -100*** | ***C8/N° 0132, 0133, 0134,***<br>***Issue 1; 06. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 025** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Shank nuts, self-locking, bi-hexagonal, FE-PA92 HT (A286), silver plated***<br><br>***EN 2911-060, -070, -080,*** | ***C8/N° 0005, 0011***<br>***Issue 1; 09. 89*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 024 renewal**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : LISI / BLANC AERO INDUSTRIES
rue Jean Vaurs
12200 VILLEFRANCHE DE ROUERGUE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2910-060 | Report - January 2009<br>Francis Guerrier - Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 26 June 2009
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*
SIGNATURE :
UNTERSCHRIFT :

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 024**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Shank nuts, self-locking, bi-hexagonal, FE-PA92 HT (A286)***<br><br>***EN 2910-060*** | ***C8/N° 0131, Issue 1; 06. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 023**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal, deep counterbored,***<br>***FE-PA92 HT (A286), silver plated***<br><br>***EN 2909-050, -060*** | ***C8/N° 0127, 0128***<br>***Issue 1; 05. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 022**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal, deep counterbored,***<br>***FE-PA92 HT (A286),***<br><br>***EN 2908-050, -060, -070, -080, -100, -120*** | ***C8/N° 0123, 0124, 0125, 0126, 0129, Issue 1; 05. 90***<br><br>***C8/No 0130, Issue 1; 06. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

## PRODUCT QUALIFICATION
## QUALIFICATION DE PRODUIT
## ERZEUGNIS-QUALIFIKATION

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 021**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal:***<br>***FE-PA92 HT (A286), silver plated***<br><br>***EN 2907-060, -070,*** | ***C8/N° 0127, 0128,***<br>***Issue 1; 05. 90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

## PRODUCT QUALIFICATION
## QUALIFICATION DE PRODUIT
## ERZEUGNIS-QUALIFIKATION

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 020**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: BLANC AERO INDUSTRIES
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Rue Jean Vaurs
HERSTELLUNGSORT: F-12200 VILLEFRANCHE DE ROUERGUE

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal:***<br>***FE-PA92 HT (A286)***<br><br>***EN 2906-050, -060, -070, -080, , -100, -120*** | ***C8/N° 0123, 0124, 0125, 0126, 0129, Issue 1; 05. 90***<br><br>***C8/N° 0130, Issue 1; 06.90*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**February 1999**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 16 February 1996
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 019**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **SIMMONDS S.A.**
FIRMA: **FRANCE**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: **Usine de Champaissant**
HERSTELLUNGSORT: **F-72110 Saint-Cosme-en Vairais**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br><br>***EN 3752*** | ***Nuts, [redacted] hexagonal, self-locking***<br>***FE-PA92HT(A286), $MoS_2$ coated***<br><br>***EN 3723-030, -040, -050, -060, -070, -080, -100, -120*** | ***SNECMA N°:***<br><br>***4010A, 4028, 4179, 4187, 4192, 4201, 4207, 4273*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**December 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 21 December 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 018**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **SIMMONDS S.A.**
FIRMA: **FRANCE**

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: **Usine de Champaissant**
HERSTELLUNGSORT: **F-72110 Saint-Cosme-en Vairais**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br><br>***EN 3752*** | ***Nuts, bi-hexagonal, self-locking***<br>***FE-PA92HT(A286), $MoS_2$ coated***<br><br>***EN 3720-050, -060, -070, -080, -100, -120, -140*** | ***SNECMA N°:***<br><br>***4312, 4313, 4314, 4315, 4316, 4361, 4362*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**December 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 21 December 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 017**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3005*** | ***Nuts, self-locking, bi-hexagonal (double reduced), NI-P101 HT (Waspaloy)***<br><br>***EN 3637-050, -060, -070, -080, -100*** | ***C8/N° 0153, 0154, 0155,0156,0158 Issue 1, April/July 1991*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 016 - Renewal** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FASTENING SYSTEMS
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN3020-050<br>EN3020-060 | ESD9377, Ian Stevenson , Rolls-Royce, August 2008 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

3 October 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 016**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Plate nuts, self-locking, floating, two-lug, FE-PA92 HT (A286), silver plated***<br><br>***EN 3020-050, -060,*** | ***C8/N° 0159, 0160***<br>***Issue 1, July 1991*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

J. Hillen

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 015 - Partially renewed** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FASTENING SYSTEMS
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN3019-050 | ESD9377, Ian Stevenson , Rolls-Royce, August 2008 |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**October 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

3 October 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General, *+33 1 47 60 70 18*

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT Secretary General
Stéphane Laumond

**ALCOA FASTENING SYSTEMS**
**Mme Geneviève Lacombe**
**9 rue des Cressonnières**
**72110 Saint Cosme en Vairais**
**FRANCE**

*05 November, 2008*
*Ref: SL/alc/2008-PQ15-16-81-96*

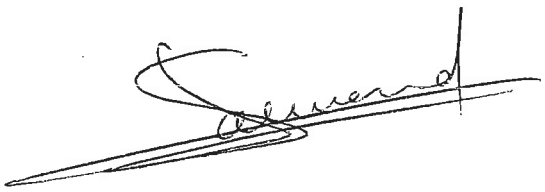
**Subject: Product Qualification Certificate PQ's 15, 16, 81 and 96**

Dear Mrs Lacombe,

Payment for the above PQ Certificates was received by ASD-CERT, for which many thanks.

Please find attached the final signed version of the Certificates PQ's 15, 16, 81 and 96.

Best regards,



Stéphane Laumond
ASD-CERT

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 015**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Plate nuts, self-locking, floating, two-lug, FE-PA92 HT (A286)***<br><br>***EN 3019-050, -060,*** | ***C8/N° 0159, 0160***<br>***Issue 1, July 1991*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

## PRODUCT QUALIFICATION
## QUALIFICATION DE PRODUIT
## ERZEUGNIS-QUALIFIKATION

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 014**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Serrated shank nuts, self-locking, bi-hexagonal,***<br>***FE-PA92 HT (A286), silver plated***<br><br>***EN 3015-050, -060, -070, ,*** | ***C8/N° 0045, 0046, 0077***<br>***Issue 1, 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 013 partially renewed** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS S.A.S
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN3014-050 EN3014-070 | TR-3014, 04/08/2008, Francis Guerrier, Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

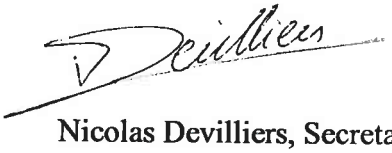
DATE :
DATE :
DATUM :

13 November 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :



Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 013**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Serrated shank nuts, self-locking, bi-hexagonal,***<br>***FE-PA92 HT (A286)***<br><br>***EN 3014-050, -060, -070, ,*** | ***C8/N° 0043, 0044, 0076***<br>***Issue 1, 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 012 partially renewed** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS S.A.S
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2911-050 | TR-2911, 04/08/2008, Francis Guerrier, Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13 November 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :



Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 012**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Shank nuts, self-locking, bi-hexagonal, FE-PA92 HT (A286), silver plated***<br><br>***EN 2911-050, -060, -070, -080,*** | ***C8/N° 0042, 0067, 0074, 0075***<br>***Issue 1, 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 011 partially renewed** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS S.A.S
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2910-070 | TR-2910, 04/08/2008, Francis Guerrier, Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

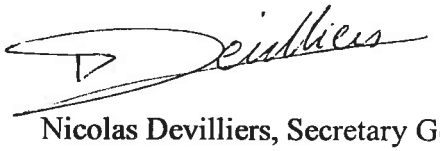
DATE :
DATE :
DATUM :

13 November 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :



Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 011**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Shank nuts, self-locking, bi-hexagonal, FE-PA92 HT (A286)***<br><br>***EN 2910-050, -060, -070, -080,*** | ***C8/N° 0041, 0066, 0072, 0073, Issue 1, 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 010 partially renewed** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS S.A.S
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2909-050 EN2909-080 | TR-2909, 04/08/2008, Francis Guerrier, Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13 November 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 010**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal, deep counterbored,***<br>***FE-PA92 HT (A286), silver plated***<br><br>***EN 2909-050, -060, -070, -080, -100, -120, -140*** | ***C8/N° 0038, 0040, 0057, 0061, 0063, 0065, 0071***<br>***Issue 1, 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 009**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal, deep counterbored,***<br>***FE-PA92 HT (A286),***<br><br>***EN 2908-050, -060, -070, -080, -100, -120, -140*** | ***C8/N° 0035, 0039, 0056, 0060, 0062, 0064, 0070***<br>***Issue 1, 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 008 partially renewed** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS S.A.S
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2907-050 EN2907-080<br>EN2907-060 EN2907-100<br>EN2907-070 EN2907-120 | TR-2907, 04/08/2008,<br>Francis Guerrier,<br>Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13 November 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 008**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal:***<br>***FE-PA92 HT (A286), silver plated***<br><br>***EN 2907-050, -060, -070, -080, -100, -120, -140*** | ***C8/N° 0036, 0037, 0038, 0057, 0058, 0059, 0071,***<br>***Issue 1, 1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20. November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT

Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 007 partially renewed** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

ALCOA FIXATIONS SIMMONDS S.A.S
9 rue des Cressonnières
72110 Saint Cosme en Vairais
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

as above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN3004 | EN2906-050 EN2906-080<br>EN2906-060 EN2906-100<br>EN2906-070 EN2906-120 | TR-2906, 04/08/2008,<br>Francis Guerrier,<br>Turboméca |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**November 2011**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

13 November 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 60 70 18*

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT Secretary General
Nicolas Devilliers

**ALCOA FASTENING SYSTEMS**
**Mme Geneviève Lacombe**
**9 rue des Cressonnières**
**72110 Saint Cosme en Vairais**
**FRANCE**

*11 December, 2008*
*Ref: ND/alc/2008-PQ 7-8-10 to 13*

**Subject: Product Qualification Certificate PQ's 7, 8, 10, 11, 12, 13**

Dear Mrs Lacombe,

Payment for the above PQ Certificates was received by ASD-CERT on 18th of November, for which many thanks.

Please find attached the final signed version of the Certificates PQ's 7, 8, 10, 11, 12, 13.

Best regards,

Nicolas Devilliers
ASD-CERT

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 007**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: SIMMONDS S.A.
FIRMA: FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: Usine de Champaissant
HERSTELLUNGSORT: F-72110 Saint-Cosme-en Vairais

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung***<br><br>***EN 3004*** | ***Nuts, self-locking, bi-hexagonal:***<br>***FE-PA92 HT (A286)***<br><br>***EN 2906-050, -060, -070, -080, , -100, -120, -140*** | ***C8/N° 0033, 0034, 0035, Issue 1; 01.89***<br><br>***C8/N° 0056, 0068, 0069, Issue 1; 04. 89***<br><br>***C8/N° 0070, Issue 1, 06. 89*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**November 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 20 November 1995
DATUM:

PLACE:
A: Issy-les- Moulineaux
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 006**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **HUCK International GmbH & Co.**
FIRMA:

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: **An der unteren Söse 26**
HERSTELLUNGSORT: **D-37520 OSTERODE / Harz**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2582** | ***Bolts/Vis/Schrauben:NI-P101 HT(WASPALOY)***<br>***EN 2929 -050/ -060/ -070/ -080/ -100***<br>***EN 2930 -050/ -060/ -070/ -080/ -100***<br>***EN 3010 -050/ -060/ -070/ -080/ -100***<br>***EN 3011 -050/ -060/ -070/ -080/ -100***<br>***EN 3063 -050/ -060/ -070/ -080/ -100***<br>***EN 3294 -050/ -060/ -070/ -080/ -100***<br>***EN 3379 -050/ -060/ -070/ -080/ -100*** | ***C8 N° 0090/Issue1/ 09.89***<br><br>***C8 N° 0093/Issue1/ 09.89*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**August 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 04.08.95
DATUM:

PLACE:
A: ISSY-LES-MOULINEAUX
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 005** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **HUCK International GmbH & Co.**
FIRMA:

PLACE OF MANUFACTURE:
LIEU DE FABRICATION: **An der unteren Söse 26**
HERSTELLUNGSORT: **D-37520 Osterode / Harz**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2583** | ***see annex*** | ***C8 N° 0085/Issue1/ 08.1989***<br><br>***C8 N° 0086/Issue1/ 08.1989***<br><br>***C8 N° 0087/Issue1/ 08.1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**August 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: **04.08.95**
DATUM:

PLACE:
A: **ISSY-LES-MOULINEAUX**
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

Annex : CERTIFICATE PQ 005

**Products / Produits / Erzeugnisse :**

Bolts / Vis/ Schrauben : Ni-P100HT (INCO 718)

EN 2927 -050/ -060/ - 070/ -080/ -100
EN 2928 -050/ -060/ - 070/ -080/ -100
EN 2933 -050/ -060
EN 2934 -050/ -060
EN 3008 -050/ -060/ - 070/ -080/ -100
EN 3009 -050/ -060/ - 070/ -080/ -100
EN 3239 -050/ -060/ - 070/ -080/ -100
EN 3326 -050/ -060/ - 070/ -080/ -100
EN 3327 -050/ -060/ - 070/ -080/ -100
EN 3613 -050/ -060/ - 070/ -080

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Technopolis 54
199, rue Jean-Jacques Rousseau
F - 92138 ISSY-LES-MOULINEAUX

Gulledelle 94
B - 1200 Bruxelles
Tel. (32) 2 775 8110
Fax. (32) 2 775 8111

## PRODUCT QUALIFICATION
## QUALIFICATION DE PRODUIT
## ERZEUGNIS-QUALIFIKATION

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 004**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **HUCK International GmbH & Co.**
FIRMA:

PLACE OF MANUFACTURE: **An der unteren Söse 26**
LIEU DE FABRICATION: **D-37520 OSTERODE / Harz**
HERSTELLUNGSORT:

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification***<br>***Spécification Technique***<br>***Technische Lieferbedingung***<br><br>**EN 2576** | ***Bolts/Vis/Schrauben:Fe-PA 92 HT (A286)***<br>***EN 2925 -050/-060/-070***<br>***EN 2926 -050/-060/-070***<br>***EN 3006 -050/-060/-070***<br>***EN 3007 -050/-060/-070***<br>***EN 3614 -050/-060/-070*** | ***C8 N° 0091/Issue 1/ 09.1989*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**August 1998**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: **04.08.95**
DATUM:

PLACE:
A: **ISSY-LES-MOULINEAUX**
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT

AECMA CERT - CERTIFICATION - THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | SOURIAU<br>RD 323<br>72470 CHAMPAGNE<br>FRANCE |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

ASD-CERT
Certification of Aerospace Standard Products

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-See Appendix for the Qualified part number list and the list of VAD | MBR Report N°136-1 ACP005-Form 2 Date 2013-04-17 & MBR Report N°136-2 ACP005-Form 2 Date 2013-06-26 & MBR Report N°214 ACP005-Form 2 Date 2013-09-13 by Christian Mazelle, Snecma & MBR Report N°199 ACP005-Form 2 Date 2013-07-17 by Laurent Jallerat, Eurocopter & MBR Report N°294 ACP005-Form 2 Date 2015-04-10 by Marc Belletti, Eurocopter & MBR Report N°355 ACP005-Form 2 Date 2015-09-10 by Steffen Ohde, Airbus |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

| | |
|---|---|
| DATE :<br>DATE :<br>DATUM : | 20/12/2013 |
| PLACE :<br>A :<br>ORT : | Brussels, Belgium |
| SIGNATURE :<br>SIGNATURE :<br>UNTERSCHRIFT : | Christelle Festaud, Secretary General, *+33 1 47 65 70 11* |

# ASD-CERT
## PQ 003 - Appendix 1 for the Qualified Part Number List

APPLICABLE TO SOURIAU AND TO VALUE ADDED DISTRIBUTORS

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART NUMBER | ASD-CERT MANUFACTURING ROUTE CHANGE QUALIFICATION N° ASSOCIATED TO PART NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|---|
| EN 2997-003<br>Square flange receptacle | EN2997WS01814MN<br><br>Positions N 6 7 8 9 Y<br><br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br><br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | <br><br><br><br>294, 355<br>294, 355<br>355<br>355 | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -12, -07, -15<br>**16** -10, -24<br>**18** -08, -14, -31<br>**20** -16, -25, -28, -39, -41<br>**22** -12, -19, -32, -39, -55<br>**24** -30, -61<br>**28** -42 |
| EN 2997-004<br>Jam-nut mounted receptacle | EN2997SE71814FN<br><br>Positions N 6 7 8 9 Y<br><br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814SN<br><br><br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | <br><br><br><br>294, 355<br>294, 355<br>355<br>355 | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -12, -07, -15<br>**16** -10, -24<br>**18** -08, -14, -31<br>**20** -16, -25, -28, -39, -41<br>**22** -12, -19, -32, -39, -55<br>**24** -30, -61 |
| EN 2997-008<br>Plug | EN2997S61814FN<br><br>Positions N 6 7 8 9 Y<br><br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814SN<br><br><br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | <br><br><br><br>294, 355<br>294, 355<br>355<br>294, 355<br>294, 355<br>355<br>355<br>355 | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -12, -07, -15<br>**16** -10, -24<br>**18** -08, -14, -31<br>**20** -16, -25, -28, -39, -41<br>**22** -12, -19, -32, -39, -55<br>**24** -30, -61<br>**28** -42 |

ASD-CERT
Certification of Aerospace Standard Products

# ASD-CERT
## PQ 003 - Appendix 1 for the Qualified Part Number List

APPLICABLE TO SOURIAU, BUT NOT APPLICABLE TO VALUE ADDED DISTRIBUTORS

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART NUMBER | ASD-CERT MANUFACTURING ROUTE CHANGE QUALIFICATION N° ASSOCIATED TO PART NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|---|
| EN 2997-014<br>Square flange receptacle with integrated accessory | EN2997SA1814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997SA****M/F*<br>EN2997SEA****M/F* | 8535-0KS1814PN<br><br><br><br>8535-0KS**-**P/S*<br>8535-AES**-**P/S* | <br><br><br><br>355<br>355 | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -12, -07, -15<br>**16** -10, -24<br>**18** -08, -14, -31<br>**20** -16, -25, -28, -39, -41<br>**22** -12, -19, -32, -39, -55<br>**24** -30, -61<br>**28** -42 |
| EN 2997-016<br>Plug with integrated accessory | EN2997SC1814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997SC****M/F*<br>EN2997SEC****M/F*<br>EN2997KEC****M/F*<br>EN2997KVC****M/F* | 8535-3KS1814PN<br><br><br><br>8535-3KS**-**P/S*<br>8535-CES**-**P/S*<br>8535-EES**-**P/S*<br>8535-4KV**-**P/S* | <br><br><br><br>355<br>355<br>355<br>355 | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -12, -07, -15<br>**16** -10, -24<br>**18** -08, -14, -31<br>**20** -16, -25, -28, -39, -41<br>**22** -12, -19, -32, -39, -55<br>**24** -30, -61<br>**28** -42 |
| EN 2997-005<br>Hermetic square flange receptacle | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y1814PN<br><br><br>8533-2Y**-**P*<br>8533-2YE**-**P* | | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -07, -15<br>**16** -10, -24<br>**20** -41<br>**18** -14, -31<br>**22** -55 |
| EN 2997-006<br>Hermetic jam-nut mounted receptacle | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y1814PN<br><br><br>8533-7Y**-**P*<br>8533-7YE**-**P* | | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -07, -15<br>**16** -10, -24<br>**20** -41<br>**18** -14, -31<br>**22**- 55 |
| EN 2997-007<br>Hermetic receptacle with round flange attached by welding or brazing | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-1Y1814PN<br><br><br>8533-1Y**-**P*<br>8533-1YE**-**P* | | **08** -03, -98<br>**10** -05, -06<br>**12** -03, -12<br>**14** -04, -07, -15<br>**16** -10, -24<br>**20** -41<br>**18** -14, -31<br>**22** -55 |
| EN 2997-012<br>Jam-nut for jam-nut receptacle | EN2997RS822<br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br><br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| EN 2997-013<br>O-ring seal for jam-nut receptacles | EN2997S922<br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br><br>8533-9S**<br>8533-9ES** | | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT
Certification of Aerospace Standard Products

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RD 323<br>72470 Champagne<br>FRANCE |
| **SOURIAU MAROC** | Zone Franche Aéroportuaire de Tanger<br>Route de Rabat<br>90000 Tanger<br>MAROC |
| Value Added Distributor<br>**Aeroflite enterprise, Inc.** | 261 Gemini Avenue<br>Brea, California 92821<br>USA |
| Value Added Distributor<br>**AE PETSCHE Company Inc.** | Sonitronies, S.A. de C.V. DPTO A.E. Petsche<br>Boulevard Luis Donaldo Colosio 1179<br>Nogales, Sonora 84020<br>MEXICO |
| Value Added Distributor<br>**Air Cost Control** | ZAC de Pont Peyrin II<br>Rue du Commandant Cousteau<br>32600 L'Isle Jourdain<br>FRANCE |
| Value Added Distributor<br>**KAPCO GLOBAL** | KAPCO House<br>37 Woolmer Way<br>Bordon, Hampshire, GU35 9QE<br>ENGLAND |
| Value Added Distributor<br>**KAPCO GLOBAL** | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003 - NEW** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-See Appendix for the Qualified part number list and the list of VAD | MBR Report N°136-1 ACP005-Form 2 Date 2013-04-17 & MBR Report N°136-2 ACP005-Form 2 Date 2013-06-26 & MBR Report N°214 ACP005-Form 2 Date 2013-09-13 & by Christian Mazelle, Snecma<br>MBR Report N°199 ACP005-Form 2 Date 2013-07-17 by & Laurent Jallerat, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/12/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

| | DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|---|
| APPLICABLE SOURIAU and VALUED ADDED DISTRIBUTORS | EN 2997-003<br>Square flange receptacle | EN2997WS01814MNPositions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| | EN 2997-004<br>Jam nut receptacle | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61 |
| | EN2997-008<br>Plug | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |

ASD-CERT
Certification of Aerospace Standard Products

# ASD-CERT
## PQ 003 - Appendix 1 for the Qualified part number list

NOT APPLICABLE TO VALUED ADDED DISTRIBUTORS

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|
| EN2997-014<br>Square flange receptacle with integrated accessory | EN2997SA1814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997SA****M/F*<br>EN2997SEA****M/F* | 8535-0KS18-14PN<br>8535-0KS**-**P/S*<br>8535-AES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| EN2997-016<br>Plug with integrated accessory | EN2997SC1814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997SC****M/F*<br>EN2997SEC****M/F*<br>EN2997KEC****M/F*<br>EN2997KVC****M/F* | 8535-3KS1814PN<br>8535-3KS**-**P/S*<br>8535-CES**-**P/S*<br>8535-EES**-**P/S* (1)<br>8535-4KV**-**P/S* (1) | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| EN 2997-005 Hermetic Square flange receptacle | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br>8533-2Y**-**P*<br>8533-2YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| EN 2997-006 Hermetic Jam nut receptacle | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y**-**P*<br>8533-7Y**-**P*<br>8533-7YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| EN 2997-007<br>Hermetic receptacle round flange for welding | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-1Y**-**P*<br>8533-1Y**-**P*<br>8533-1YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| EN2997-012<br>Nut for Jam nut receptacle | EN2997RS822<br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| EN2997-013<br>O Ring for Jam nut receptacle | EN2997S922<br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT Certification Aerospace Standard Products

ASD-CERT
PQ 003 - Appendix 2 for the List of VAD

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RN 23<br>72470 Champagne - FRANCE |
| Value Added Distributor<br>**Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821 - USA |
| Value Added Distributor<br>**AE PETSCHE** | Sonitronies, S.A. de C.V. DPTO<br>A.E. Petsche<br>Boulevard Luis Donaldo Colosio 1179<br>Nogales, Sonora C.P. 84020<br>Mexico |
| Value Added Distributor<br>**Air Cost Control** | Rue du Commandant Cousteau<br>Z.I. du pont Peyrin<br>32600 L'Isle Jourdain - FRANCE |
| Value Added Distributor<br>**KAPCO GLOBAL**<br>Formerly AVIALEC International | KAPCO HOUSE<br>37 Woolmer Way<br>Bordon Hampshire GU35 9QE - ENGLAND |
| Value Added Distributor<br>**KAPCO**<br>Formerly WINGS | 11300 FORTUNE CIRCLE<br>Wellington, FL33414 - USA |

ASD-CERT
Certification of Aerospace Standard Products

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003 - NEW** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-See Appendix for the Qualified part number list and the list of VAD | MBR Report N°136-1 ACP005-Form 2 Date 2013-04-17<br>MBR Report N°136-2 ACP005-Form 2 Date 2013-06-26<br>Christian Mazelle, Snecma |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/12/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 003 - Appendix 1 for the Qualified part number list

| | DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|---|
| APPLICABLE SOURIAU and VALUED ADDED DISTRIBUTORS | EN 2997-003<br>Square flange receptacle | EN2997WS01814MNPositions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| | EN 2997-004<br>Jam nut receptacle | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61 |
| | EN2997-008<br>Plug | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |

ASD-CERT
Certification of Aerospace Standard Products

# ASD-CERT
## PQ 003 - Appendix 1 for the Qualified part number list

NOT APPLICABLE TO VALUED ADDED DISTRIBUTORS

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|
| EN2997-014<br>Square flange receptacle with integrated accessory | EN2997SA1814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997SA****M/F*<br>EN2997SEA****M/F* | 8535-0KS18-14PN<br>8535-0KS**-**P/S*<br>8535-AES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| EN2997-016<br>Plug with integrated accessory | EN2997SC1814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997SC****M/F*<br>EN2997SEC****M/F*<br>EN2997KEC****M/F*<br>EN2997KVC****M/F* | 8535-3KS1814PN<br>8535-3KS**-**P/S*<br>8535-CES**-**P/S*<br>8535-EES**-**P/S* (1)<br>8535-4KV**-**P/S* (1) | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| EN 2997-005 Hermetic<br>Square flange receptacle | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br>8533-2Y**-**P*<br>8533-2YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| EN 2997-006 Hermetic<br>Jam nut receptacle | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y**-**P*<br>8533-7Y**-**P*<br>8533-7YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| EN 2997-007<br>Hermetic receptacle round flange for welding | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-1Y**-**P*<br>8533-1Y**-**P*<br>8533-1YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| EN2997-012<br>Nut for Jam nut receptacle | EN2997RS822<br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| EN2997-013<br>O Ring for Jam nut receptacle | EN2997S922<br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT
Certification Aerospace Standard Products

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RN 23<br>72470 Champagne<br>FRANCE |
| Value Added Distributor<br>**Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| Value Added Distributor<br>**AE PETSCHE** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| Value Added Distributor<br>**Air Cost Control**<br>**A2C** | Z.A. de Buconis<br>32600 L'Isle Jourdain<br>FRANCE |
| Value Added Distributor<br>**KAPCO UK**<br>Formerly AVIALEC International | KPACO HOUSE<br>Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
| Value Added Distributor<br>**KAPCO**<br>Formerly WINGS | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |

ASD-CERT
Certification of Aerospace Products

ASD-CERT
Certification of Aerospace Standard Products

Rue Montoyer, 10
1000 Brussels
BELGIUM

Tel. +32 2 775 8126
Fax +32 2 775 8131

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 003 - RENEWAL**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-001 | EN2997-003, -004, -008<br>See Appendix for the Qualified part number list and the list of VAD | MBR Report N°136-1 ACP005-Form 2 Date 2013-04-17<br>Christian Mazelle, Snecma |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2017**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

20/12/2013

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Thierry Grenot, Secretary General, *+33 1 47 65 70 18*

# ASD-CERT
## PQ 003 - Appendix 1 for the Qualified part number list

| | DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|---|
| | EN 2997-003<br>Square flange receptacle | EN2997WS01814MNPositions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| | EN 2997-004<br>Jam nut receptacle | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61 |
| | EN2997-008<br>Plug | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -12 -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, 25, -28, -39, -41<br>**22**-12, -19, -32, -39, -55<br>**24**-30, -61<br>**28**-42 |
| NOT APPLICABLE TO VALUED ADDED DISTRIBUTORS | EN 2997-005 Hermetic<br>Square flange receptacle | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br><br>8533-2Y**-**P*<br>8533-2YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| | EN 2997-006 Hermetic<br>Jam nut receptacle | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y**-**P*<br><br>8533-7Y**-**P*<br>8533-7YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| | EN 2997-007<br>Hermetic receptacle<br>round flange for welding | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-1Y**-**P*<br><br>8533-1Y**-**P*<br>8533-1YE**-**P* | **8**-03, -98<br>**10**-05, -06<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -10,-24<br>**20**-41<br>**18**-14, -31<br>**22**-55 |
| | EN2997-012<br>Nut for Jam nut<br>receptacle | EN2997RS822<br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br><br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| | EN2997-013<br>O Ring for Jam nut<br>receptacle | EN2997S922<br><br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br><br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT
Certification of Aerospace Standard Products

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RN 23<br>72470 Champagne<br>FRANCE |
| Value Added Distributor<br>**Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| Value Added Distributor<br>**AE PETSCHE** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| Value Added Distributor<br>**Air Cost Control**<br>**A2C** | Z.A. de Buconis<br>32600 L'Isle Jourdain<br>FRANCE |
| Value Added Distributor<br>**KAPCO UK**<br>Formerly AVIALEC International | KPACO HOUSE<br>Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
| Value Added Distributor<br>**KAPCO**<br>Formerly WINGS | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |

ASD-CERT

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003 renewal** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

| | |
|---|---|
| COMPANY NAME :<br>NOM DE SOCIETE :<br>FIRMA : | SOURIAU<br>RN 23<br>72470 CHAMPAGNE<br>FRANCE |
| PLACE OF MANUFACTURE :<br>LIEU DE FABRICATION :<br>HERSTELLUNGSORT : | As above |

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997 | See appendix | Report - 09/12/2009<br>C. MAZELLE - SNECMA<br>P. TERRIER - BNAE |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

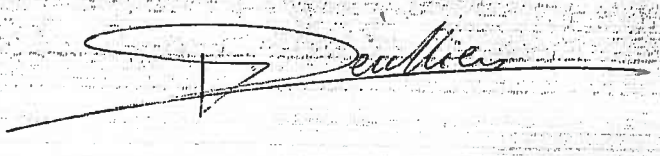
**DECEMBER 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 17 December 2009

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



# APPENDIX 1 : list of qualified part numbers

| | DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **/** |
|---|---|---|---|---|
| | EN 2997-003<br>Square flange receptacle | EN2997WS01814MNPositions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| | EN 2997-004<br>Jam nut receptacle | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61 |
| | EN2997-008<br>Plug | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8**-03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| NOT APPLICABLE TO VALUED ADDED DISTRIBUTORS | EN 2997-005 Hermetic<br>Square flange receptacle | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br><br>8533-2Y**-**P*<br>8533-2YE**-**P* | **8**-03, -98<br>**10**-05<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -24<br>**18**-14, -31<br>**22**-55 |
| | EN 2997-005 Hermetic<br>Square flange receptacle | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br><br>8533-2Y**-**P*<br>8533-2YE**-**P* | **8**-03, -98<br>**10**-05<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -24<br>**18**-14, -31<br>**22**-55 |
| | EN 2997-007<br>Hermetic receptacle<br>round flange for welding | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-1Y**-**P*<br><br>8533-1Y**-**P*<br>8533-1YE**-**P* | **8**-03, -98<br>**10**-05<br>**12**-03, -12<br>**14**-04, -07, -15<br>**16** -24<br>**18**-14, -31<br>**22**-55 |
| | EN2997-012<br>Nut for Jam nut<br>receptacle | EN2997RS822<br><br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br><br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| | EN2997-013<br>O Ring for Jam nut<br>receptacle | EN2997S922<br><br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br><br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

## APPENDIX 2 : list of qualified part numbers

The following Places of Manufacture and Value Added Distributors are qualified:

| PLANT | ADDRESS |
|---|---|
| **SOURIAU SARTHE** | RN 23<br>72470 Champagne<br>FRANCE |
| Value Added Distributor<br>**Aeroflite enterprise, inc** | 261 Gemini avenue<br>Brea, California 92821<br>USA |
| Value Added Distributor<br>**AE PETSCHE** | 2112 West Division<br>Arlington, TX, 76012-3693<br>USA |
| Value Added Distributor<br>**Air Cost Control**<br>**A2C** | Z.A. de Buconis<br>32600 L'Isle Jourdain<br>FRANCE |
| Value Added Distributor<br>**AVIALEC International** | Peterfiled Business Park<br>Peterfield, Hampshire GU32 3LJ |
| Value Added Distributor<br>**WINGS** | 11300 FORTUNE CIRCLE<br>Wellington, FL33414<br>USA |

ASD-CERT
Certification of Aerospace Standard Products

Ave de Tervuren, 270
1150 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.

**PQ 003 renewal (partially)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

SOURIAU
RN 23
72470 CHAMPAGNE
FRANCE

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997 | EN2997-003, -004, -005, -006, -007, -008, -012, -013<br>See appendix | Report - 03/12/2008<br>L. LEBLANC - EUROCOPTER |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**JUNE 2012**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

26 June 2009

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Nicolas Devilliers, Secretary General, *+33 1 47 65 70 18*



## Appendix - list of qualified part numbers

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** |
|---|---|---|---|
| Square flange receptacle (EN2997-003) | EN2997WS01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Jam nut receptacle (EN2997-004) | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61 |
| Plug (EN2997-008) | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Hermetic Square flange receptacle (EN2997-005) | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br><br>8533-2Y**-**P*<br>8533-2YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic Jam nut receptacle (EN2997-006) | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y**-**P*<br><br>8533-7Y**-**P*<br>8533-7YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic receptacle round flange for welding (EN2997-007) | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-Y1**-**P*<br><br>8533-Y1**-**P*<br>8533-YE1**-**P* | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Nut for Jam nut receptacle (EN2997-012) | EN2997RS822<br><br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br><br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| O Ring for Jam nut receptacle (EN2997-013) | EN2997S922<br><br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br><br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SOURIAU

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : RN23
F-72470 Champagné
France

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997 | see appendix, list of qualified part numbers | JQP 2005-049 + MR-JQP-2001-01RevF - 05th July 2007<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2010**
**(this certificate is basis for individual VAD qualifications issued as PQ supplements)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE : 11th January 2008
DATUM :

PLACE :
A : Brussels, Belgium
ORT :

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General

**Appendix to ASD-CERT PQ003 dated 11/01/2008 for Souriau FR, list of qualified part numbers**

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** |
|---|---|---|---|
| Square flange receptacle (EN2997-003) | EN2997WS01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Jam nut receptacle (EN2997-004) | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61 |
| Plug (EN2997-008) | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Hermetic Square flange receptacle (EN2997-005) | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br><br><br>8533-2Y**-**P*<br>8533-2YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic Jam nut receptacle (EN2997-006) | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y**-**P*<br><br><br>8533-7Y**-**P*<br>8533-7YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic receptacle round flange for welding (EN2997-007) | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-Y1**-**P*<br><br><br>8533-Y1**-**P*<br>8533-YE1**-**P* | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Nut for Jam nut receptacle (EN2997-012) | EN2997RS822<br><br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br><br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| O Ring for Jam nut receptacle (EN2997-013) | EN2997S922<br><br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br><br><br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT
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Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 1 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
A.E.Petsche Co.
2112 West Division
Arlington, TX 76012-3693, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JQP 2005-049 + MR-JQP-2001-01RevF - 05th July 2007<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2010**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11th January 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 2 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
final assembly and inspection at:
Avialec International Plant
Petersfield Business Park
Petersfield, Hampshire, GU32 3LJ, UK

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JQP 2005-049 + MR-JQP-2001-01RevF - 05th July 2007<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2010**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
11th January 2008

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 3 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Wings Electro Sales Company Plant
11300 Fortune Circle
Wellington, FL 33414, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JQP 2005-049 + MR-JQP-2001-01RevF - 05th July 2007<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2010**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11th January 2008

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 4 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
final assembly and inspection at:
Aeroflite Enterprises , Inc.
261 Gemini Avenue
Brea, CA 92821, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JQP 2005-049 + MR-JQP-2001-01RevF - 05th July 2007<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**July 2010**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
11th January 2008

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR.
**PQ 003 (renewal)**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SOURIAU

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : RN23
F-72470 Champagné
France

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997 | see appendix, list of qualified part numbers | JCP 2005-049<br>11th January 2006<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**
**(this certificate is basis for individual VAD qualifications issued as PQ supplements)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 11th January 2007

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Stéphane Laumond, Secretary General

**Appendix to ASD-CERT PQ003 dated 11/01/2007 for Souriau FR, list of qualified part numbers**

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** |
|---|---|---|---|
| Square flange receptacle (EN2997-003) | EN2997WS01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Jam nut receptacle (EN2997-004) | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61 |
| Plug (EN2997-008) | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Hermetic Square flange receptacle (EN2997-005) | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br><br><br>8533-2Y**-**P*<br>8533-2YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic Jam nut receptacle (EN2997-006) | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y**-**P*<br><br><br>8533-7Y**-**P*<br>8533-7YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic receptacle round flange for welding (EN2997-007) | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-Y1**-**P*<br><br><br>8533-Y1**-**P*<br>8533-YE1**-**P* | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Nut for Jam nut receptacle (EN2997-012) | EN2997RS822<br><br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br><br><br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| O Ring for Jam nut receptacle (EN2997-013) | EN2997S922<br><br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br><br><br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 1 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :
Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :
final assembly and inspection at:
A.E.Petsche Co.
2112 West Division
Arlington, TX 76012-3693, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JCP 2005-049<br>11th January 2006<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :
11th January 2007

PLACE :
A :
ORT :
Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :
Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 2 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Avialec International Plant
Petersfield Business Park
Petersfield, Hampshire, GU32 3LJ, UK

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JCP 2005-049<br>11th January 2006<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11th January 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

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Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 3 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Wings Electro Sales Company Plant
11300 Fortune Circle
Wellington, FL 33414, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JCP 2005-049<br>11th January 2006<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11th January 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
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Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 4 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Aeroflite Enterprises , Inc.
261 Gemini Avenue
Brea, CA 92821, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | JCP 2005-049<br>11th January 2006<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

11th January 2007

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Stéphane Laumond, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003 (renewal)** |
|---|---|

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SOURIAU

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : RN23
F-72470 Champagné
France

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997 | see appendix, list of qualified partnumbers | JCP 2005-049<br>11th January 2006<br>Louis Leblanc, Eurocopter |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**January 2009**
**(this certificate is basis for individual VAD qualifications issued as PQ supplements)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 5th July 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

**Appendix to ASD-CERT PQ003 dated 05th July 2006 for Souriau FR, list of qualified partnumbers**

| DESCRIPTION | STANDARD PART NUMBER | SOURIAU PART-NUMBER | QUALIFIED LAYOUTS **-** |
|---|---|---|---|
| Square flange receptacle (EN2997-003) | EN2997WS01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS0****M/F*<br>EN2997WS0****M/F*<br>EN2997S0****M/F*<br>EN2997SE0****M/F* | 8533-0WS1814PN<br><br><br>8533-0RS**-**P/S*<br>8533-0WS**-**P/S*<br>8533-0KS**-**P/S*<br>8533-0ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Jam nut receptacle (EN2997-004) | EN2997SE71814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997RS7****M/F*<br>EN2997WS7****M/F*<br>EN2997S7****M/F*<br>EN2997SE7****M/F* | 8533-7WS1814PN<br><br><br>8533-7RS**-**P/S*<br>8533-7WS**-**P/S*<br>8533-7KS**-**P/S*<br>8533-7ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61 |
| Plug (EN2997-008) | EN2997S61814FN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997W6****M/F*<br>EN2997WS6****M/F*<br>EN2997K6****M/F*<br>EN2997R6****M/F*<br>EN2997RS6****M/F*<br>EN2997S6****M/F*<br>EN2997KE6****M/F*<br>EN2997SE6****M/F* | 8533-0WS1814PN<br><br><br>8533-4WS**-**P/S*<br>8533-3WS**-**P/S*<br>8533-4KS**-**P/S*<br>8533-4RS**-**P/S*<br>8533-3RS**-**P/S*<br>8533-3KS**-**P/S*<br>8533-4ES**-**P/S*<br>8533-3ES**-**P/S* | **8** -03, -98<br>**10** -05, -06<br>**12**-03, -12<br>**14**-04, -07 -15<br>**16**-10, -24<br>**18**-08, -14, -31<br>**20**-16, -39, -41<br>**22**-12, -19, -39, -55<br>**24**-30, -61<br>**28**-42 |
| Hermetic Square flange receptacle (EN2997-005) | EN2997Y01814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y0****M*<br>EN2997YE0****M* | 8533-2Y**-**P*<br><br><br>8533-2Y**-**P*<br>8533-2YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic Jam nut receptacle (EN2997-006) | EN2997YE71814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y7****M*<br>EN2997YE7****M* | 8533-7Y**-**P*<br><br><br>8533-7Y**-**P*<br>8533-7YE**-**P | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Hermetic receptacle round flange for welding (EN2997-007) | EN2997YE11814MN<br>Positions N 6 7 8 9 Y<br>Classes<br>EN2997Y1****M*<br>EN2997YE1****M* | 8533-Y1**-**P*<br><br><br>8533-Y1**-**P*<br>8533-YE1**-**P* | **8-03, -98**<br>**10-05**<br>**12-03, -12**<br>**14-04, -07, -15**<br>**16 -24**<br>**18-14, -31**<br>**22-55** |
| Nut for Jam nut receptacle (EN2997-012) | EN2997RS822<br><br>Classes<br>EN2997WS8**<br>EN2997RS8**<br>EN2997SE8** | 8533-8RS22<br><br>8533-8WS**<br>8533-8RS**<br>8533-8ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |
| O Ring for Jam nut receptacle (EN2997-013) | EN2997S922<br><br>Classes<br>EN2997S9**<br>EN2997SE9** | 8533-9S22<br><br>8533-9S**<br>8533-9ES** | **08 – 10 – 12 – 14 – 16 – 18 – 20 – 22 – 24 – 28** |

ASD-CERT
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Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 1 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
A.E.Petsche Co.
2112 West Division
Arlington, TX 76012-3693, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2004-144, 8-12 Dec 2003, Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**December 2006**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

5th July 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 2 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Avialec International Plant
Petersfield Business Park
Petersfield, Hampshire, GU32 3LJ, UK

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2004-174, 02 June 2004<br>Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**June 2007**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

5th July 2006

**Peculiar conditions attached**

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT

Certification of Aerospace Standard Products

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# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

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|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 3 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Wings Electro Sales Company Plant
11300 Fortune Circle
Wellington, FL 33414, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2005-222, 12 April 2005<br>Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2008**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

5th July 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 4 (renewal)** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Aeroflite Enterprises , Inc.
261 Gemini Avenue
Brea, CA 92821, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2005-224, 18 April 2005<br>Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**April 2008**
**(qualification valid in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 5th July 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT

Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 003**

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA : SOURIAU

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT : RN23
F-72470 Champagné
France

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S, Y (classes 175 and 200 degrees C),<br>Models KE, SE, YE (class 260 degrees C) | JQP 2003-018, 06.06.2003,<br>JQP 2001-11, 14.06.2001<br>Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2006**
**(extra-ordinary extension granted by ASD-CERT Executive Board)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM : 9 January 2006

PLACE :
A :
ORT : Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT : Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 1** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
A.E.Petsche Co.
2112 West Division
Arlington, TX 76012-3693, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2004-144, 8-12 Dec 2003, Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2006**
**(in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

9 January 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 2** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Avialec International Plant
Petersfield Business Park
Petersfield, Hampshire, GU32 3LJ, UK

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2004-174, 02 June 2004<br>Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2006**
**(in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

9 January 2006

Peculiar conditions attached

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT
Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 3** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Wings Electro Sales Company Plant
11300 Fortune Circle
Wellington, FL 33414, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2005-222, 12 April 2005<br>Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2006**
**(in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

9 January 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

ASD-CERT

Certification of Aerospace Standard Products

Gulledelle 94
B-1200 Brussels
BELGIUM

Tel. +32 2 775 8114
Fax +32 2 775 8111

# PRODUCT QUALIFICATION / QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

| | |
|---|---|
| CERTIFICATE NO.<br>N° DE CERTIFICAT<br>ZERTIFIKAT NR. | **PQ 003**<br>**Supplement No. 4** |

This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

Souriau
RN23
F-72470 Champagné, France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

final assembly and inspection at:
Aeroflite Enterprises , Inc.
261 Gemini Avenue
Brea, CA 92821, USA

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report No.<br>Issue Date<br>ASD-CERT Mandated Body |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175 and 200 degrees C),<br>Models KE, SE (class 260 degrees C) | PS 2005-224, 18 April 2005<br>Daniel Goury, Hispano Suiza, France |

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

**March 2006**
**(in conjunction with PQ 003 for Souriau, France production)**

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

DATE :
DATE :
DATUM :

9 January 2006

PLACE :
A :
ORT :

Brussels, Belgium

SIGNATURE :
SIGNATURE :
UNTERSCHRIFT :

Günter Lessmann, Secretary General

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 003**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SOURIAU
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: RN 23
LIEU DE FABRICATION: F-72470 Champagné
HERSTELLUNGSORT: France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2997-003, -004, -005, -006, -007, -008 | Models W, WS, K, R, RS, S, Y(classes 175°C And 200°C)<br>Models KE, SE, YE (Class 260 °C) | JQP 2003-018<br>06.06.03<br>No JQP2001-11<br>14/06/2001 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**July 2005**

Renewal with 1 year validity according to decision AECMA-CERT Executive Board 28 September 2004

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: 10 November 2004
DATE:
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**Nº DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 003**<br>**Supplement** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

| | |
|---|---|
| COMPANY NAME:<br>NOM DE SOCIETE:<br>FIRMA: | SOURIAU<br>RN 23<br>F-72470 Champagné<br>France |
| PLACE OF MANUFACTURE:<br>LIEU DE FABRICATION:<br>HERSTELLUNGSORT: | Final Assembly and inspection at:<br>A.E. PETSCHE CO.<br>2112 West Division<br>Arlington, TX 76012-3693, USA |

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report Nº./Issue/Date |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S (classes 175° and 200°)<br>Models KE, SE, (Class 260°C) | PS 2004-144<br>8-12 Dec 2003 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

July 2005

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 30 November 2004
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.**

# PQ 003
# Supplement No. 2

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: **SOURIAU**
NOM DE SOCIETE: **RN 23**
FIRMA: **F-72470 Champagné**
**France**

PLACE OF MANUFACTURE: **Final Assembly and inspection at:**
LIEU DE FABRICATION: **Avialec International Plant**
HERSTELLUNGSORT: **Petersfield Business Park**
**Petersfield, Hampshire, GU32 3LJ UK**

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, R, RS, S, (classes 175° and 200°)<br>Models KE, SE, (Class 260° C) | PS 2004-174<br>02 June 2004 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

July 2005 Peculiar conditions attached

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 21 March 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 003**<br>**Supplement No. 3** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

| | |
|---|---|
| COMPANY NAME:<br>NOM DE SOCIETE:<br>FIRMA: | **SOURIAU**<br>**RN 23**<br>**F-72470 Champagné**<br>**France** |
| PLACE OF MANUFACTURE:<br>LIEU DE FABRICATION:<br>HERSTELLUNGSORT: | **final assembly and inspection at:**<br>**Wings Electro Sales Company Plant**<br>**11300 Fortune Circle**<br>**Wellington, Florida 33414, USA** |

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S, (classes 175° and 200°)<br>Models KE, SE, (Class 260° C) | PS 2005-222<br>12 April 2005 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

July 2005

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 23 May 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 003**<br>**Supplement No. 4** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

| | |
|---|---|
| COMPANY NAME:<br>NOM DE SOCIETE:<br>FIRMA: | **SOURIAU**<br>**RN 23**<br>**F-72470 Champagné**<br>**France** |
| PLACE OF MANUFACTURE:<br>LIEU DE FABRICATION:<br>HERSTELLUNGSORT: | **Final Assembly and inspection at:**<br>**Aeroflite Enterprises, Inc.**<br>**261 Gemini Avenue**<br>**Brea, California 92821, USA** |

has met the requirements of EN 9133 in respect of the following standards:
a satisfait les exigences de l'EN 9133 en ce qui concerne les normes suivantes :
die Forderungen der EN 9133 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2997-003, -004, -008 | Models W, WS, K, R, RS, S, (classes 175° and 200°)<br>Models KE, SE, (Class 260° C) | PS 2005-224<br>18 April 2005 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

July 2005

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 23 May 2005
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 003**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: SOURIAU
NOM DE SOCIETE:
FIRMA.

PLACE OF MANUFACTURE: RN 23
LIEU DE FABRICATION: F-72470 Champagné
HERSTELLUNGSORT: France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN2997-003, -004, -005, -006, -007, -008 | Models W, WS, K, R, RS, S, Y(classes 175°C And 200°C)<br>Models KE, SE, YE (Class 260 °C) | JQP 2003-018 06.06.03<br>No JQP2001-11 14/06/2001 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**July 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 10 July 2003
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT**
**ZERTIFIKAT NR.** **PQ 003**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: **FRAMATOME CONNECTORS INTERNATIONAL**
FIRMA:

PLACE OF MANUFACTURE: **R.N. 23**
LIEU DE FABRICATION: **F-72470 Champagné**
HERSTELLUNGSORT: **FRANCE**

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2997-001 | Electrical connectors<br>EN2997-003, -004, -005, -006, -007, -008 | No JQP2001-11<br>14/06/2001 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

**July 2004**

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: 12 July 2001
DATUM:

PLACE:
A: Brussels
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** PQ 003
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE:
FIRMA: FRAMATOME CONNECTORS FRANCE

PLACE OF MANUFACTURE:
LIEU DE FABRICATION:
HERSTELLUNGSORT: 145 Rue Yves-Le-Coz
F-78035 Versailles Cedex
France

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| EN 2591 | Electrical connectors<br>EN 2997-003/004/005/006/007/008 | JQP 97027<br>November 1997 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

January 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 19 January 1998

PLACE:
A:
ORT: Brussels

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:



# AECMA-CERT

ASSOCIATION EUROPEENNE DES CONSTRUCTEURS DE MATERIEL AEROSPATIAL - CERTIFICATION

Technopolis 54, 199, rue Jean-Jacques-Rousseau 92138 ISSY-LES-MOULINEAUX CEDEX
Tél: (1) 47 36 98 76 - Télécopie: (1) 47 36 83 04

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

| | |
|---|---|
| **CERTIFICATE NO.**<br>**N° DE CERTIFICAT**<br>**ZERTIFIKAT NR.** | **PQ 003** |

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: ***FRAMATOME CONNECTORS FRANCE***
FIRMA: ***(SOURIAU)***

PLACE OF MANUFACTURE: ***145, rue Yves-le-Coz***
LIEU DE FABRICATION: ***78000 VERSAILLES***
HERSTELLUNGSORT: ***FRANCE***

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de **l'EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°/Issue/Date |
|---|---|---|
| ***EN 2997-001***<br>***Technical Specification***<br>***Spécification technique***<br>***Technische Lieferbedingung*** | ***Circular Electrical Connectors/***<br>***Connecteurs électriques***<br>***circulaires/Elektrische***<br>***Rundsteckverbinder***<br>***EN 2997-003 to EN 2997-008*** | ***SNECMA/ELECMA***<br>***JQP 94 011***<br>***21.03.1994*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

***Nov. 1997***

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE: ***23. November 1994***
DATE:
DATUM:

PLACE:
A: ***ISSY-LES-MOULINEAUX***
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

THE EUROPEAN ASSOCIATION OF AEROSPACE INDUSTRIES - CERTIFICATION

Gulledelle 94
B-1200 Bruxelles
Belgium

Tel. (32) 2 775 8110
Fax (32) 2 775 8111

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** 002
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME: ROSE BEARINGS
NOM DE SOCIETE:
FIRMA:

PLACE OF MANUFACTURE: Doddington Road
LIEU DE FABRICATION: Lincoln LN6 3RA
HERSTELLUNGSORT: England

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date<br>manufacturing route sealed |
|---|---|---|
| EN 2584<br>EN 2585<br>EN 3048 | Bearings | BAE RTR027<br>of 21.06.93 |

This certificate is valid until/Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

November 2001

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: November 17, 1998
DATUM:

PLACE: Brussels
A:
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT:

# AECMA-CERT

ASSOCIATION EUROPEENNE DES CONSTRUCTEURS DE MATERIEL AEROSPATIAL - CERTIFICATION

Technopolis 54, 199, rue Jean-Jacques-Rousseau 92138 ISSY-LES-MOULINEAUX CEDEX
Tél: (1) 47 36 98 76 - Télécopie: (1) 47 36 83 04

## PRODUCT QUALIFICATION
## QUALIFICATION DE PRODUIT
## ERZEUGNIS-QUALIFIKATION

CERTIFICATE NO.
N° DE CERTIFICAT
ZERTIFIKAT NR. **PQ 002**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: ***ROSE BEARINGS LTD***
FIRMA:

PLACE OF MANUFACTURE: ***DODDINGTON ROAD***
LIEU DE FABRICATION: ***LINCOLN LN6 3RA***
HERSTELLUNGSORT: ***ENGLAND***

has met the requirements of **EN 3042** in respect of the following standards:
a satisfait les exigences de l'**EN 3042** en ce qui concerne les normes suivantes:
die Forderungen der **EN 3042** erfüllt unter Berücksichtigung der folgenden Normen:

| Allicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°/Issue/Date |
|---|---|---|
| ***EN 2755***<br>***Technical specification***<br>***Spécification technique***<br>***Technische Lieferbedingung*** | ***Bearings/Roulements/***<br>***Flugwerklager***<br>***EN 2584 R or S 05 to 22***<br>***EN 2585 R or S 05 to 17***<br>***EN 3048 R or S 12 to 25*** | ***British Aerospace Defence LTD***<br>***RTR 027***<br>***21.06.1993*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

***Nov. 1997***

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE: ***23 November 1994***
DATUM:

PLACE:
A: ***ISSY-LES-MOULINEAUX***
ORT:

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT: J. Hillen

# AECMA-CERT

ASSOCIATION EUROPEENNE DES CONSTRUCTEURS DE MATERIEL AEROSPATIAL - CERTIFICATION

Technopolis 54, 199, rue Jean-Jacques-Rousseau 92138 ISSY-LES-MOULINEAUX CEDEX
Tél: (1) 47 36 98 76 - Télécopie: (1) 47 36 83 04

**PRODUCT QUALIFICATION**
**QUALIFICATION DE PRODUIT**
**ERZEUGNIS-QUALIFIKATION**

**CERTIFICATE NO.**
**N° DE CERTIFICAT** **PQ 001**
**ZERTIFIKAT NR.**

This is to certify that the manufacturer/Ceci certifie que le fabricant/Hiermit wird bescheinigt, daß der Hersteller

COMPANY NAME:
NOM DE SOCIETE: ***RHP Bearings Aerospace***
FIRMA:

PLACE OF MANUFACTURE: ***Oldends Lane***
LIEU DE FABRICATION: ***Stonehouse***
HERSTELLUNGSORT: ***Gloucestershire, GL10 3RH, UK***

has met the requirements of EN 3042 in respect of the following standards:
a satisfait les exigences de l'EN 3042 en ce qui concerne les normes suivantes:
die Forderungen der EN 3042 erfüllt unter Berücksichtigung der folgenden Normen:

| Applicable standard<br>Norme applicable<br>Zutreffende Norm | Products<br>Produits<br>Erzeugnisse | Report N°./Issue/Date |
|---|---|---|
| ***Technical Specification EN 3280*** | ***Bearings, airframe rolling/Roulements pour structure d'aéronefs/Flugwerklager***<br><br>***EN3286-B06E***<br>***EN3286-B12E***<br>***EN3286-B15E*** | ***REP 182/0667/91/9*** |

This certificate is valid until/ Ce certificat est valable jusqu'au/Dieses Zertifikat ist gültig bis

July 1997

except if cancelled in the meantime/sauf si annulé entre-temps/sofern zwischenzeitlich nicht widerrufen.

DATE:
DATE:
DATUM: 11 July 1994.

PLACE:
A:
ORT: Filton Bristol.

SIGNATURE:
SIGNATURE:
UNTERSCHRIFT: