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## PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.  
No DE CERTIFICAT  
ZERTIFIKAT NR.

PQ427

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

COMPANY NAME :  
NOM DE SOCIETE :  
FIRMA :

MECAERO SNC - Howmet Fastening  
Systems  
Boulevard du Grand Castaing  
Roques-sur-Garonne  
31128  
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:

**Approved under Report No : 1260-(R) – Howmet Fastening Systems – Portet sur Garonne (FR) PQ427 Dated: 15 Apr 2022**  
**Completed by ASD-CERT Auditor : Sebastien GARCIA**

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard Number | Designation (or<br>identifiers) | Products<br>Produits Erzeugnisse  |
|---|-----------------|---------------------------------|---|
| EN3685<br>09/04/2008  | EN3687          | 050                             | Aerospace series - Bolts, normal hexagon head, relieved shank, long thread,<br>in heat resisting steel FE-PA2601 (A286), silver plated - Classification: 1<br>100 MPa/650°C |

This certificate is valid / Ce certificat est valable / Dieses Zertifikat ist gültig

from 03-Jan-2022 until 03-Jan-2025

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



Christelle Festaud, ASD-CERT Secretary General  
331-476-57011 27 June 2022

# 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>No DE CERTIFICAT<br>ZERTIFIKAT NR. | PQ427 |
|---|-------|

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

COMPANY NAME : Arconic Toulouse Opérations - Portet sur  
NOM DE SOCIETE : Garonne (FR)  
FIRMA : Boulevard du Grand Castaing  
Toulouse  
31128  
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:

**Approved under Report No :** 532 – Arconic Fastening Systems & Rings – Portet sur Garonne (FR) EN3687-050, EN3686-070

**Dated:** 16 Oct 2018

**Completed by ASD-CERT Auditor :** Pauline Hallouin

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard<br>Number | Designation<br>(or<br>identifiers) | Products<br>Produits Erzeugnisse  |
|---|--------------------|------------------------------------|---|
| EN3685<br>09/04/2008  | EN3687             | 050                                | Aerospace series - Bolts, normal hexagon head, relieved shank, long thread, in heat resisting steel FE-PA2601 (A286), silver plated - Classification: 1 100 MPa/650°C |
| EN3685<br>09/04/2008  | EN3686             | 070                                | Aerospace series - Bolts, double hexagon head, relieved shank, long thread, in heat resisting steel FE-PA92HT (A286), silver plated - Classification: 1100 MPa/650°C  |

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

03-Jan-2022

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



Christelle Festaud, ASD-CERT Secretary General  
331-476-57011 3 January 2019