

ASD-CERT  
Rond-Point Schuman 6  
1040 Brussels  
Belgium

Telephone: +33 1 47 65 70 18  
E-mail: [secretariat.general@asd-cert.org](mailto:secretariat.general@asd-cert.org)  
[www.asd-cert.org](http://www.asd-cert.org)

## PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.  
No DE CERTIFICAT  
ZERTIFIKAT NR.

**PQ356 - Manufacturing Change**

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

COMPANY NAME : AHG Ateliers de la Haute-Garonne  
NOM DE SOCIETE : 26 route de Lasbordes  
FIRMA : Flourens  
31131  
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 : 1503-(MCR) – AHG Ateliers de la Haute-Garonne – Flourens (FR) PQ356 Dated: 6 Sep 2023**  
**Completed by ASD-CERT Auditor : Daniel Lécure**

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard Number | Designation (or<br>identifiers) | Products<br>Produits Erzeugnisse                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO9152                                                                           | EN2549          | -100                            | Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated, metric series - Classification: 1100 MPa (at ambient temperature)/315°C             |
| ISO9152                                                                           | EN3381          | -060                            | Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in titanium, anodized, MoS2 lubricated - Classification: 1100 MPa (at ambient temperature)/315°C |

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

from 01-Aug-2022 until 01-Aug-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 30 October 2023

**PRODUCT QUALIFICATION**  
**QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION**

CERTIFICATE NO.  
No DE CERTIFICAT  
ZERTIFIKAT NR.

**PQ356**

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard Number | Designation (or<br>identifiers) | Products<br>Produits Erzeugnisse                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO9152                                                                           | EN3820          | -050                            | Metric bolts, normal hexagon head, coarse tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated - Classification: 1 100 MPa (at ambient temperature)/315 °C                 |
| ISO9152                                                                           | EN4130          | -050                            | Bolts, normal hexagonal head, coarse tolerance normal shank, medium length thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature)/425°C                     |
| ISO9152                                                                           | EN3037          | -050                            | Screws, pan head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized MoS2 lubricated - Classification: 1100 MPa(at ambient temperature)/315°C              |
| ISO9152                                                                           | EN4127          | -050                            | Bolts, normal hexagonal head, coarse tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature)/425°C                             |
| ISO9152                                                                           | EN4072          | -080                            | Screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread in titanium alloy, aluminium IVD coated – Classification: 1 100 MPa (at ambient temperature) / 425 °C |



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

from 01-Aug-2022 until 01-Aug-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 30 October 2023

ASD-CERT  
Rond-Point Schuman 6  
1040 Brussels  
Belgium

Telephone: +33 1 47 65 70 18  
E-mail: [secretariat.general@asd-cert.org](mailto:secretariat.general@asd-cert.org)  
[www.asd-cert.org](http://www.asd-cert.org)

## PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

|                                                       |       |
|-------------------------------------------------------|-------|
| CERTIFICATE NO.<br>No DE CERTIFICAT<br>ZERTIFIKAT NR. | PQ356 |
|-------------------------------------------------------|-------|

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

COMPANY NAME : AHG Ateliers de la Haute-Garonne  
NOM DE SOCIETE : 26 route de Lasbordes  
FIRMA : Flourens  
31131  
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 : 1266-(R) – AHG Ateliers de la Haute-Garonne – Flourens (FR) PQ356 Dated: 1 Jun 2022**  
**Completed by ASD-CERT Auditor : Daniel Lécure**

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard Number | Designation (or<br>identifiers) | Products<br>Produits Erzeugnisse                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO9152                                                                           | EN2549          | 100                             | Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated, metric series - Classification: 1100 MPa (at ambient temperature)/315°C             |
| ISO9152                                                                           | EN3381          | 060                             | Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in titanium, anodized, MoS2 lubricated - Classification: 1100 MPa (at ambient temperature)/315°C |

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

from 01-Aug-2022 until 01-Aug-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 21 November 2022

**PRODUCT QUALIFICATION**  
**QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION**

CERTIFICATE NO.  
No DE CERTIFICAT  
ZERTIFIKAT NR.

**PQ356**

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard Number | Designation (or<br>identifiers) | Products<br>Produits Erzeugnisse                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO9152                                                                           | EN3820          | 050                             | Metric bolts, normal hexagon head, coarse tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated - Classification: 1 100 MPa (at ambient temperature)/315 °C                 |
| ISO9152                                                                           | EN4130          | 050                             | Bolts, normal hexagonal head, coarse tolerance normal shank, medium length thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature)/425°C                     |
| ISO9152                                                                           | EN3037          | 050                             | Screws, pan head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized MoS2 lubricated - Classification: 1100 MPa(at ambient temperature)/315°C              |
| ISO9152                                                                           | EN4127          | 050                             | Bolts, normal hexagonal head, coarse tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature)/425°C                             |
| ISO9152                                                                           | EN4072          | 080                             | Screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread in titanium alloy, aluminium IVD coated – Classification: 1 100 MPa (at ambient temperature) / 425 °C |



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

from 01-Aug-2022 until 01-Aug-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 21 November 2022

## PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

|                                                       |                      |
|-------------------------------------------------------|----------------------|
| CERTIFICATE NO.<br>No DE CERTIFICAT<br>ZERTIFIKAT NR. | <b>PQ356 Renewal</b> |
|-------------------------------------------------------|----------------------|

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

COMPANY NAME : AHG Ateliers de la Haute-Garonne  
NOM DE SOCIETE : 26 route de Lasbordes  
FIRMA : Flourens  
31131  
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 : 833-(R) – AHG Ateliers de la Haute-Garonne – Flourens (FR) PQ356 Dated: 19 Mar 2020**  
**Completed by ASD-CERT Auditor : Daniel Lécure**

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard Number | Designation (or<br>identifiers) | Products<br>Produits Erzeugnisse                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO9152                                                                           | EN2549          | 100                             | Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated, metric series - Classification: 1100 MPa (at ambient temperature)/315°C             |
| ISO9152                                                                           | EN3381          | 060                             | Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in titanium, anodized, MoS2 lubricated - Classification: 1100 MPa (at ambient temperature)/315°C |

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

01-Aug-2022

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



**PRODUCT QUALIFICATION**  
**QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION**

CERTIFICATE NO.  
No DE CERTIFICAT  
ZERTIFIKAT NR.

**PQ356**

| Applicable Standard<br>Norme applicable<br>Zutreffende Norm<br>& Publication Date | Standard Number | Designation (or<br>identifiers) | Products<br>Produits Erzeugnisse                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISO9152                                                                           | EN3820          | 050                             | Metric bolts, normal hexagon head, coarse tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated - Classification: 1 100 MPa (at ambient temperature)/315 °C                 |
| ISO9152                                                                           | EN4130          | 050                             | Bolts, normal hexagonal head, coarse tolerance normal shank, medium length thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature)/425°C                     |
| ISO9152                                                                           | EN3037          | 050                             | Screws, pan head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized MoS2 lubricated - Classification: 1100 MPa(at ambient temperature)/315°C              |
| ISO9152                                                                           | EN4127          | 050                             | Bolts, normal hexagonal head, coarse tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature)/425°C                             |
| ISO9152                                                                           | EN4072          | 080                             | Screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread in titanium alloy, aluminium IVD coated – Classification: 1 100 MPa (at ambient temperature) / 425 °C |



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

01-Aug-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 29 September 2020



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.

**PQ356**

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

COMPANY NAME :  
NOM DE SOCIETE :  
FIRMA :

AHG/ATELIER de la HAUTE GARONNE  
BP 73103 ; 26 route de LASBORDES  
31131 FLOURENS 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                                          |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| ISO 9152                                                    | EN2549-100, EN3381-060<br>EN3820-050, EN4130-050<br>EN3037-050, EN4127-050<br>EN4072-080 | Report: N°254 - 2<br>for AHG_ACP005 Form1 -<br>2015/06/28<br>Michel CAPBLANCQ,<br>TURBOMECA |

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

**AUGUST 2019**

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

DATE :  
DATE :  
DATUM :

22/07/2016

PLACE :  
A :  
ORT :

Brussels, Belgium

SIGNATURE :  
SIGNATURE :  
UNTERSCHRIFT :

Patrick Terrier, Deputy Secretary General, +33 1 47 65 70 14  
On behalf of Christelle Festaud, Secretary General