

## PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO.  
No DE CERTIFICAT  
ZERTIFIKAT NR.

PQ693

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

COMPANY NAME : Howmet Fastening Systems (Linread Ltd)  
NOM DE SOCIETE : Crossgate Road  
FIRMA : Redditch  
B98 7TD  
UK

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 :** 1211-Howmet Fastening Systems (Linread) – Redditch (UK) EN2549-060 EN3037-050 EN3037-060 EN3381-060 EN3381-040 EN3820-040 **Dated:** 18 Nov 2022

**Completed by ASD-CERT Auditor :** Marko Matijas

Applicable Standard Norme applicable Zutreffende Norm & Publication Date	Standard Number	Designation (or identifiers)	Products Produits Erzeugnisse
ISO9152	EN2549	-050 (by analogy), -060	Aerospace series - Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated - Classification: 1 100 MPa (at ambient temperature)/ 315 °C
ISO9152	EN3037	-050 (by analogy), -060	Aerospace series - Screws, pan head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized, MoS, lubricated - Classification: 1100 MPa (at ambient temperature)/315 °C

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

from 09-Dec-2022 until 09-Dec-2025

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



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Applicable Standard Norme applicable Zutreffende Norm & Publication Date	Standard Number	Designation (or identifiers)	Products Produits Erzeugnisse
ISO9152	EN3381	-040, -050 (by analogy), -060	Aerospace series - Screws, 100" countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in titanium, anodized, MoS lubricated Classification: 1100 MPa (at ambient temperature)/315 C
ISO9152	EN3820	-040, -050 (by analogy)	Aerospace series - Metric bolts, normal hexagon head, course tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated - Classification: 1100 MPa (at ambient temperature)/ 315 °C



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A handwritten signature in black ink, appearing to be "CF", is written over a light blue horizontal line.

Christelle Festaud, ASD-CERT Secretary General  
331-476-57011                      9 December 2022