

Notified Body No. 2812

## Certificate of Constancy of Performance

### 2812-CPR-AC5108

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

## G4530 Series Grade 14 Stainless Steel Concealed Bearing Butt Hinges See Annex A

**Intended use: For use on fire/smoke compartmentation doors, and escape route doors**

Essential characteristics	Performance	Harmonised technical specification
<b>Mechanical test evidence: WIL 407858, WIL 431015, WIL 432852/1 WIL 129696, WIL 420365 &amp; WIL 535759</b> <b>Fire Test Evidence: CFR 1811211 &amp; WF 138907 iss. 11</b>		
Self-closing Initial friction torque (door mass 160kg) Static load Load deformation  Overload  Shear strength  Hinges for use on fire-resistant and/or smoke-controls doors	< 4Nm  Passed with a displacement under load: - lateral < 2mm - vertical < 4mm and a residual displacement after unloading: - lateral < 0.6mm - vertical < 0.3mm - within the shaded area of figure G.1  Passed  Passed with a lateral and vertical displacement after unloading < 3mm  Grade 1: suitable for use on fire/smoke resistant door assemblies	<b>EN 1935:2002 / AC:2003</b>
Durability  Families of hinges with common design features  Corrosion resistance	Passed a 200,000 cycle test with a maximum wear: - lateral < 0.5mm - vertical < 1mm and with a maximum frictional torque. - after 20 cycles < 4Nm - after the completion of 200,000 cycles < 4Nm  The hinge covered by this certificate is the hinge tested  Grade 4: 240 hours	
Dangerous substances	Pass: the materials in the hinge do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations (1)	

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Placed on the market under the name of:

**Royde & Tucker Limited**  
**Bilton Road**  
**Cadwell Lane**  
**Hitchin**  
**Hertfordshire**  
**SG4 0SB**  
**United Kingdom**

and produced in the manufacturing plant:

**CQB28702-1**

**This is coded format, and the information is held by the Notified Body.**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard:

**EN 1935:2002 / AC:2003**

Under System 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on **24/11/2020** and re-issued on **25/11/2024** and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, or unless suspended or withdrawn by the Notified Product Certification Body.

CE Marking certificate valid to: **23/07/2025**

ERO Project Reference: **ERO 034621 P1700**



**Pascal Coget**  
**General Manager - European Certification**

CSF408-NL 8.0

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#### Annex A

Model Reference	Description
G4530-FR-BSS G4530-FS-BSS	114 x 76 x 3.25mm stainless steel concealed bearing hinge Satin brushed stainless steel Radiused or square corners
G4535-FR-BSS G4535-FS-BSS	114 x 89 x 3.25mm stainless steel concealed bearing hinge Satin brushed stainless steel Radiused or square corners
G4540-FR-BSS G4540-FS-BSS	114 x 102 x 3.25mm stainless steel concealed bearing hinge Satin brushed stainless steel Radiused or square corners
G4545-FR-BSS G4545-FS-BSS	114 x 114 x 3.25mm stainless steel concealed bearing hinge Satin brushed stainless steel Radiused or square corners
G4530-5-FR-BSS G4530-5-FS-BSS	114 x 76 x 3.25mm stainless steel concealed bearing hinge with dog bolt Satin brushed stainless steel Radiused or square corners
G4535-5-FR-BSS G4535-5-FS-BSS	114 x 89 x 3.25mm stainless steel concealed bearing hinge with dog bolt Satin brushed stainless steel Radiused or square corners
G4540-5-FR-BSS G4540-5-FS-BSS	114 x 102 x 3.25mm stainless steel concealed bearing hinge with dog bolt Satin brushed stainless steel Radiused or square corners
G4545-5-FR-BSS G4545-5-FS-BSS	114 x 114 x 3.25mm stainless steel concealed bearing hinge with dog bolt Satin brushed stainless steel Radiused or square corners

	<b>SS316 stainless steel hinges available in the following finishes:</b>		
<b>316B</b>	<b>Satin brushed stainless steel</b>	<b>316P</b>	<b>Polished stainless steel</b>
	<b>SS304 stainless steel hinges available in the following finishes:</b>		
<b>BSS</b>	<b>Satin brushed stainless steel</b>	<b>PSS</b>	<b>Polished stainless steel</b>
<b>ABR</b>	<b>Antique brass</b>	<b>RBZ</b>	<b>RT bronze</b>
<b>ABZ</b>	<b>Antique bronze</b>	<b>SBB</b>	<b>Simulated brushed brass</b>
<b>BLK</b>	<b>Black powder coated</b>	<b>SBL</b>	<b>Simulated brass, lacquered</b>
<b>BNP</b>	<b>Bright nickel plated</b>	<b>SNP</b>	<b>Satin nickel plated</b>
<b>DBZ</b>	<b>Dark bronze</b>	<b>SPB</b>	<b>Simulated polished brass</b>
<b>EBP</b>	<b>Electro brass plated</b>	<b>WHI</b>	<b>White paint powder coat</b>
<b>FMB</b>	<b>Flat matt black powder coat</b>	<b>XABR</b>	<b>Antique brass variant</b>
<b>IBU</b>	<b>Imitation bronze</b>	<b>XBNP</b>	<b>Bright nickel plated variant</b>
<b>NST</b>	<b>Non-standard painted</b>	<b>XDBZ</b>	<b>Dark bronze variant</b>
<b>NSTP</b>	<b>Non-standard plated</b>	<b>XIBU</b>	<b>Imitation bronze variant</b>
<b>OBZ</b>	<b>Old bronze</b>	<b>XOBZ</b>	<b>Old bronze variant</b>
<b>PBL</b>	<b>Polished brass plated, lacquered</b>	<b>XRZB</b>	<b>RT bronze variant</b>
<b>PBZ</b>	<b>Polished bronze</b>	<b>XSNP</b>	<b>Satin nickel plated variant</b>
<b>PNP</b>	<b>Polished nickel plated</b>	<b>XSPB</b>	<b>Simulated polished brass variant</b>
<b>PVD</b>	<b>PVD brass</b>		