



Carlisle Brass Ltd  
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## EC - DECLARATION OF CONFORMITY

Number CA203

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9<sup>th</sup> March 2011 (the Construction Products Regulations or CPR), we declare that the construction product

**Grade 11 Hinges – see Annex A**

Placed on the market

**Carlisle Brass Ltd  
Parkhouse Road, Carlisle, Cumbria, CA3 0JU**

Complies with all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard

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

with classification

<b>3</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>11</b>
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on the basis that the approved body

**Element Materials Technology Rotterdam B.V. – (EC Notified Body 2812)**

has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control as shown in the Certificate of Conformity Ref. 2812-CPR-AC0096, dated 23<sup>rd</sup> December 2020.

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

Essential characteristic	Performance	Harmonised technical specification
<p>Self-closing Initial friction torque (door mass 80Kg)</p> <p>Static load Load Deformation</p> <p>Overload</p> <p>Shear Strength</p> <p>Hinges for use on fire-resistant and/or smoke controls doors</p>	<p>3 Nm</p> <p>Passed with a displacement under load: -lateral &lt; 2 mm -vertical &lt; 4 mm and a residual displacement after unloading. -lateral &lt; 0.6 mm -vertical &lt; 0.3 mm</p> <p>Passed</p> <p>Passed with a lateral and vertical displacement after unloading &lt; 3 mm</p> <p>Grade 1: suitable for use on fire/smoke resistant door assemblies</p>	<p>EN 1935:2002/AC:2003</p>
<p>Durability</p> <p>Families of hinges with common design features</p> <p>Corrosion resistance</p>	<p>Passed a 200,000 cycles test with a maximum wear: -lateral &lt; 0,5 mm -vertical &lt; 1 mm With a maximum frictional torque. -after 20 cycles &lt; 3 Nm -after completion of 200,000 cycles &lt; 3 Nm</p> <p>The hinge covered by this CPR is the hinge tested</p> <p>Grade 4: 240 hours</p>	<p>EN 1935:2002/AC:2003</p>
<p>Dangerous substances</p>	<p>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)</p>	<p>EN 1935:2002/AC:2003</p>

Paul Campbell



Technical Manager

8<sup>th</sup> January 2021

## **Annex A**

Hinge Reference	Description
HIN13225	76 x 67 x 2.5mm Stainless Steel Ball Bearing Hinge
HIN14252	102 x 67 x 2.2mm Stainless Steel Ball Bearing Hinge
HIN14322	102 x 76 x 2.2mm Stainless Steel Ball Bearing Hinge