



Carlisle Brass Ltd
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Carlisle
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CA3 0JU

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EC - DECLARATION OF CONFORMITY

Number CA210

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

HIN1433P and HIN1443P Hinges

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

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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-AC5103, dated 23rd 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 120Kg)</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>4 Nm</p> <p>Passed with a displacement under load: -lateral < 2 mm -vertical < 4 mm and a residual displacement after unloading. -lateral < 0.6 mm -vertical < 0.3 mm</p> <p>Passed</p> <p>Passed with a lateral and vertical displacement after unloading < 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 < 0,5 mm -vertical < 1 mm With a maximum frictional torque. -after 20 cycles < 3 Nm -after completion of 200,000 cycles < 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

8th January 2021