

**CONSTRUCTION PRODUCTS REGULATION 2011, Declaration of Performance****DoP Number:**

CBA210

**1. Unique identification code of the product-type:**

HIN1433P Ball Bearing Hinge  
HIN1443P Ball Bearing Hinge

**2. Type, batch or serial number, or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:**

HIN1433P 102mm x 76mm x 3mm Stainless Steel Ball Bearing Hinge  
HIN1443P 102mm x 102mm x 3mm Stainless Steel Ball Bearing Hinge

Variants – Square and Radius, All Finishes

**3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:**

For use on fire and smoke compartmentation doors, when fitted in accordance with the manufacturer's fitting instructions.

**4. Name, registered trade name or registered trademark and contact address of the manufacturer as required under Article 11(5):**

Carlisle Brass Limited  
Parkhouse Road, Carlisle, Cumbria, CA3 0JU

**5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):**

N/A

**6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:**

System 1

**7. In case of the declaration of performance concerning a construction product covered by a harmonized standard.**

EN 1935:2002/AC:2003 Notified product certification body No. 2812 performed the determination of the product type on the basis of type testing (including sampling); initial inspection of the manufacturing plant and of the factory production control and continuous surveillance; assessment and evaluation of factory production control; and issued the certificate of constancy of performance (2812-CPR-AC5103) of the product.

**8. European Technical Assessment:**

N/A

9. Declared performance:

Essential characteristic	Performance	Harmonised technical specification
Self-closing Initial friction torque (door mass 120Kg)  Static load Load Deformation  Overload  Shear Strength  Hinges for use on fire-resistant and/or smoke controls doors	4 Nm  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  Passed  Passed with a lateral and vertical displacement after unloading < 3 mm  Grade 1: suitable for use on fire/smoke resistant door assemblies	EN 1935:2002/AC:2003
Durability  Families of hinges with common design features  Corrosion resistance	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  The hinge covered by this CPR is the hinge tested  Grade 4: 240 hours	EN 1935:2002/AC:2003
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)	EN 1935:2002/AC:2003

EN 1935: 2002 Classification achieved:

Category of use	Durability	Door mass	Fire resistance	Safety	Corrosion resistance	Security	Hinge Grade
4	7	6	1	1	4	0	13



10. The performance of the product identified in points 1 and 2 is in conformity of the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

A handwritten signature in black ink that reads 'Paul Campbell'.

Paul Campbell

Technical Manager

Date of issue: 07/01/2021

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