

Approved Body No. 1121

Certificate of Constancy of Performance

1121-CPR-UK-AC7870

In compliance with Construction Products Regulation 2011 (retained EU law EUR 2011/305) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020, this certificate applies to the Construction Product:

JEDO J8500 Series Grade 11 Mild Steel 2 Ball Bearing Hinge See Annex A

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

| Essential characteristics | Performance | Designated standard |
|--|---|---------------------------|
| Mechanical test evidence: WIL 502821 & WIL 438546 Fire test evidence: WF 429674 & WF 430075 iss.1 | | |
| Self-closing Initial friction torque (door mass 80kg) Static load Load deformation | < 3Nm 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 | EN 1935:2002 / AC:2003 |
| Overload | Passed | |
| Shear strength | Passed with a lateral and vertical displacement after unloading < 3mm | |
| Hinges for use on fire-resistant and/or smoke-controls doors | Grade 1: suitable for use on fire/smoke resistant door assemblies | |
| Durability | Passed a 200,000 cycle test with a maximum wear: - lateral < 0.5mm - vertical < 1mm and with a maximum frictional torque. - after 20 cycles < 3Nm - after the completion of 200,000 cycles < 3Nm | |
| Families of hinges with common design features | The hinges covered by this certificate are listed in Annex A | |
| Corrosion resistance | Grade 3: 96 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

**Frelan Hardware Ltd
Unit 10 Mitcham Industrial Estate
Streatham Road
Mitcham
Surrey
CR4 2AP
United Kingdom**

and produced in the manufacturing plant

CUC89710-1

This is coded format, and the information is held by the Approved 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 **12/08/2021** and re-issued on **19/11/2024** and will remain valid as long as neither the designated standard, the Construction Product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, or unless suspended or withdrawn by the Approved Product Certification Body.

UKCA certificate valid to: **11/08/2027**



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Paul Duggan
Certification Manager

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Suite 302, The Genesis Centre, Birchwood, Warrington, WA3 7BH, UK**

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Annex A

| Model Reference | Description |
|-----------------|--|
| J8500 | 102 x 76 x 2.7mm mild steel 2 ball bearing hinge Square corners |
| J8500R | 102 x 76 x 2.7mm mild steel 2 ball bearing hinge Radius corners |

Hinges available in the following finishes:

| | | | |
|----|-----------------|----|---------------|
| PC | Polished chrome | EB | Electro brass |
| SC | Satin chrome | BL | Matt black |
| SN | Satin nickel | GM | Gun metal |