

Approved Body No. 1121

Certificate of Constancy of Performance

1121-CPR-UK-AC7005

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:

Simonswerk UK Ltd Grade 11 Ball Race Brass Butt Hinges 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 128792, WIL 128793, WIL 129146 & WIL 542932 Fire test Evidence: WF 128267 & WF 520396 iss.1		
Self-closing Initial friction torque (door mass 80kg) Static load Load deformation Overload Shear strength Hinges for use on fire-resistant and/or smoke-controls doors	< 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 Passed Passed with a lateral and vertical displacement after unloading < 3mm 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 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 The hinges covered by this certificate are listed in Annex A 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:

**Simonswerk UK Ltd
Burcot Works
Spring Street
Tipton
West Midlands
DY4 8TF
United Kingdom**

and produced in the manufacturing plant:

E013915-1

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 **03/07/2021** and re-issued on **11/10/2024** 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: **02/07/2027**



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A handwritten signature in black ink, appearing to read 'Paul Duggan'.

**Paul Duggan
Certification Manager**

**Warringtonfire Testing and Certification Limited
Suite 302, The Genesis Centre, Birchwood, Warrington, WA3 7BH, UK**

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Annex A

Model Reference	Description
1540	100 x 65 x 3.5mm Brass Ball Race Butt Hinges Square or radiused corners
1550	100 x 75 x 4mm Brass Ball Race Butt Hinges Square or radiused corners
P1560	100 x 103 x4mm Brass Ball Race Butt Hinges Square or radiused corners
1570	127 x 76 x 4mm Brass Ball Race Butt Hinges Square or radiused corners
1580	152 x 76 x 4mm Brass Ball Race Butt Hinges Square or radiused corners
P1585	152 x 103 x 4mm Brass Ball Race Butt Hinges Square or radiused corners
P1590	127 x 127 x 5mm Brass Ball Race Butt Hinges Square or radiused corners
P1595	152 x 127 x 5mm Brass Ball Race Butt Hinges Square or radiused corners
1640 URN 1640 BALL	100 x 65 x 3.5mm Brass Ball Race Urn/Ball Finial Hinges Square or radiused corners
1650 URN 1650 BALL	100 x 75 x 4mm Brass Ball Race Urn/Ball Finial Hinges Square or radiused corners
P1660 URN P1660 BALL	100 x 103 x4mm Brass Ball Race Urn/Ball Finial Hinges Square or radiused corners
1670 URN 1670 BALL	127 x 76 x 4mm Brass Ball Race Urn/Ball Finial Hinges Square or radiused corners
1680 URN 1680 BALL	152 x 76 x 4mm Brass Ball Race Urn/Ball Finial Hinges Square/radiused corners
P1685 URN P1685 BALL	152 x 103 x 4mm Brass Ball Race Urn/Ball Finial Hinges Square or radiused corners
P1690 URN P1690 BALL	127 x 127 x 5mm Brass Ball Race Urn/Ball Finial Hinges Square or radiused corners
P1695 URN P1695 BALL	152 x 127 x 5mm Brass Ball Race Urn/Ball Finial Hinges Square or radiused corners

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Annex A (continued)

Hinges available in the following finishes:

Polished & Lacquered	MABW & Lacquered
Polished & Waxed	DBZW & Lacquered
Satin Brass & Lacquered	Antique Brass & Lacquered
Satin Brass & Waxed	Antique Brass & Waxed
Polished Nickel Plated	Copper Bronze
Polished Chrome Plated	Copper Bronze & Waxed
Satin Nickel Plated	Midnight & Lacquered
Satin Chrome Plated	Midnight & Waxed
Antique Nickel Plated	Burnished Brass
Antique Nickel & Waxed	Honeycombe & Lacquered
Copper Plated	Honeycombe & Waxed
Pewter	Aged Brass & Lacquered
Pewter & Waxed	Aged Brass & Waxed
Polished IBMA	
IBMA & Lacquered	
IBMA & Waxed	