

Notified Body No. 2812

## Certificate of Constancy of Performance

### 2812-CPR-AC0026

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product:

**SIMONSWERK UK Ltd – BALL RACE Brass Butt Hinges**  
See Annex A

1540	1550	P1560	1570	1580	P1585	P1590	P1595
1640	1650	P1660	1670	1680	P1685	P1690	P1695

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

Essential characteristics	Performance	Harmonised technical specification
	<b>Mechanical test evidence: 128792, 128793, 129146</b> <b>Fire Test Evidence: C132467</b>	
<b>Self-closing</b> <b>Initial friction torque (door mass 80kg)</b> <b>Static load</b> <b>Load deformation</b>	<b>&lt;2 Nm</b>  <b>Passed with a displacement under load:</b> <b>-lateral &lt;2 mm</b> <b>-vertical &lt;4 mm</b> <b>and a residual displacement after unloading.</b> <b>-lateral &lt;0.6 mm</b> <b>-vertical &lt;0.3 mm</b>	<b>EN 1935:2002</b>
<b>Overload</b>	<b>Passed</b>	
<b>Shear strength</b>	<b>Passed with a lateral and vertical displacement after unloading &lt; 3 mm</b>	
<b>Hinges for use on fire-resistant and/or smoke-controls doors</b>	<b>Grade 1: suitable for use on fire/smoke resistant door assemblies</b>	
<b>Durability</b>	<b>Passed a 200,000 cycles test with a maximum wear:</b> <b>-lateral &lt;0.5 mm</b> <b>-vertical &lt;1.0 mm</b> <b>and with a maximum frictional torque.</b> <b>-after 20 cycles &lt;2 Nm</b> <b>-after the completion of 200,000 cycles &lt;2 Nm</b> <b>The hinge covered by this CPR is the hinge tested</b>	<b>EN 1935:2002</b>
<b>Families of hinges with common design features</b>		
<b>Corrosion resistance</b>	<b>Grade 4: 240 hours</b>	
<b>Dangerous substances</b>	<b>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)</b>	<b>EN 1935:2002</b>

## Certificate of constancy of performance

**2812-CPR-AC0026**

Placed on the Market under the Name of

**SIMONSWERK UK Ltd  
Burcot Works  
Spring Street  
Tipton  
West Midlands  
DY4 8TF**

and produced in the manufacturing plant

**E/008**

This certificate attests that all provisions concerning the Assessment and Verification of Constancy of Performance described in Annex ZA of the standard(s):

**EN 1935: 2002**

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 11/11/2020 and will remain valid as long as neither the harmonised standard, the Construction Product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, or unless suspended or withdrawn by the Notified Product Certification Body.

Valid to: **24/10/2022**

ERO Project Reference: **EROWF10444**



Paul Duggan  
Certification Manager



## Annex A

Hinge Reference	Description
<b>1540</b>	100 x 65mm Brass Ball Race Butt Hinge
<b>1550</b>	100 x 75mm Brass Ball Race Butt Hinge
<b>P1560</b>	100 x 100 Brass Ball Race Projection Butt Hinge
<b>1570</b>	127 x 75mm Brass Ball Race Butt Hinge
<b>1580</b>	152.4 x 75mm Brass Ball Race Butt Hinge
<b>P1585</b>	152.4 x 100mm Brass Ball Race Projection Hinge
<b>P1590</b>	127 x 125mm Brass Ball Race Projection Hinge
<b>P1595</b>	152.4 x 125mm Brass Ball Race Projection Hinge
<b>1640</b>	100 x 65mm Brass Ball Race Finial Hinge
<b>1650</b>	100 x 75mm Brass Ball Race Finial Hinge
<b>P1660</b>	100 x 100 Brass Ball Race Projection Finial Hinge
<b>1670</b>	127 x 75mm Brass Ball Race Finial Hinge
<b>1680</b>	152.4 x 75mm Brass Ball Race Finial Hinge
<b>P1685</b>	152.4 x 100mm Brass Ball Race Projection Finial Hinge
<b>P1690</b>	127 x 125mm Brass Ball Race Projection Finial Hinge
<b>P1695</b>	152.4 x 125mm Brass Ball Race Projection Finial Hinge

