

**Construction Products Regulation 2011  
Declaration of Performance (DoP)**

EU Nr.305/2011 (UK)

DoP Number: DOP-SHL-HIN01-CE

CE Certificate of Conformity number: AC10504

- **Unique identification code of the product-type:** SBBH243 series ball bearing hinge
- **Intended use or uses:** For use on fire and smoke compartmentation doors when fitted in accordance with the manufacturers fitting instructions to fulfil the self-closing requirements of such doors
- **Manufacturer name and address:** Synergy Hardware Ltd. Unit 2 Heath Mill Business Centre, Heath Mill Road, Wombourne, Wolverhampton, WV5 8AP
- **System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:** System 1
- **Harmonised standard:** EN 1935: 2002/AC:2003
- **Notified body:** 2812 Element Materials Technology Rotterdam BV

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

Essential Characteristic Clause	Performance:	Harmonised Technical Specification
<b>5.1 (Self-Closing):</b> Initial friction torque (door mass 120kg)	<4Nm: <b>Pass</b>	EN1935:2002/ AC:2003
<b>5.2.1 (Static load):</b> Load deformation	-Lateral displacement under load (<2mm): <b>Pass</b> -Vertical displacement under load (<4mm): <b>Pass</b> -Lateral residual displacement after unloading (<0.6mm): <b>Pass</b> -Vertical residual displacement after unloading (<0.3mm): <b>Pass</b> -Within shaded area of figure G.1	
<b>5.2.2 (Overload):</b>	- <b>Pass</b>	
<b>5.3 (Shear Strength):</b>	-Lateral and vertical displacement under load (<3mm): <b>Pass</b>	
<b>5.6 (Hinges for use on fire resistant and/or smoke control doors):</b>	<b>Grade 1:</b> suitable for use on fire/smoke resistant door assemblies	
<b>5.4 (Durability):</b> Passed a 200,000 cycle test with a maximum wear:	-Lateral (<0.5mm): <b>Pass</b> -Vertical (<1mm): <b>Pass</b> -Maximum frictional torque after 20 cycles (<4Nm): <b>Pass</b> -After the completion of 200,000 cycles (<4Nm): <b>Pass</b>	
<b>5.8 (Families of hinges with common design features):</b>	The hinges listed are listed in the CoCoP and are covered by this DoP:  <b>SBBH243.SSS                      SBBH243.MB</b> <b>SBBH243.PSS                    SBBH243.PCB</b> <b>SBBH243.PVDSBZ            SBBH243.PVDSBR</b> <b>SBBH243.PVDPBR</b>  <b>Square or Radius Corner</b>	

Registered Address:  
Synergy Hardware Ltd., 3 Lyttleton Court Birmingham Street,  
Halesowen, West Midlands B63 3HN  
Tel: 01902 893725  
Email: [info@synergyhardware.co.uk](mailto:info@synergyhardware.co.uk)  
Website: [www.synergyhardware.co.uk](http://www.synergyhardware.co.uk)

Registered in England and Wales Company No. 08911884  
VAT Reg. No. 200 2342 85



Essential Characteristic Clause	Performance:	Harmonised Technical Specification
<b>5.5 (Corrosion Resistance):</b>	-Grade 4 (240hrs): <b>Pass</b>	EN1935:2002/ AC:2003
<b>Dangerous Substances Annex ZA3</b>	<b>Pass:</b> 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.	

The performance of the product identified above is in conformity with the set of declared performance(s). This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer listed above.

Signed for and on the behalf of the manufacturer:



Mr Neil Morgan  
 Managing Director  
 First Issue: 26/09/2025  
 Updated: N/A  
 Place of Issue: Wolverhampton, England

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 Synergy Hardware Ltd., 3 Lyttleton Court Birmingham Street,  
 Halesowen, West Midlands B63 3HN  
 Tel: 01902 893725  
 Email: [info@synergyhardware.co.uk](mailto:info@synergyhardware.co.uk)  
 Website: [www.synergyhardware.co.uk](http://www.synergyhardware.co.uk)

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