

# Declaration of Performance

CONSTRUCTION PRODUCTS REGULATION  
2011 DECLARATION OF PERFORMANCE



No. DoP / XL002

1. Unique identification code of the product—type:  
**XL866, XL867, XL868, and XL869 mild steel 2 ball bearings door hinges**
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:  
**XL866, XL867, XL868, and XL869 mild steel 2 ball bearings door hinges**
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 trade mark and contact address of the manufacturer as required under Article 11(5):  
**Excel Architectural Hardware Limited  
Errisbeg House, Barton Turn, Barton Under Needwood, Burton Upon Trent, Staffordshire, DE13 8EB**
5. Where applicable, name and contact address of the authorised 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 Notified Body No. 359 issued the EC Certificate.**
8. European Technical Assessment:  
**N/A**
9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
4 CLASSIFICATION		
4.2 Category of use	Grade 3 - Heavy duty	EN 1935:2002
4.3 Durability	Grade 7 - 200 000 cycles	
4.4 Test door mass	Grade 4 - 80 Kg	
4.5 Fire resistance	Grade 1 - suitable for use on fire/smoke resistant door assemblies.	
4.6 Safety	Grade 1 - Safety the essential requirement of safety in use	
4.7 Corrosion resistance	Grade 4 - Very high corrosion resistance	
4.8 Security—Burglar—Resistance	Grade 0 - not suitable for use on burglar—resistant door assemblies	
4.9 Hinge grade	Grade 11	
5 REQUIREMENTS		
5.1 Initial friction torque with max. door mass 40 kg	Passed: below 3Nm	
5.2 Static load	160Kg	
5.2.1 Load deformation	Passed with a displacement under load: (i) vertical 0.78mm; (ii) lateral 0.80mm and a residual displacement after unloading: (i) vertical 0.20mm; (ii) lateral 0.25mm	
5.2.2 Overload	240Kg	
5.3 Shear strength		
5.3.1 Lateral deformation maximum	1,22mm	
5.3.2 Displacements after test	(i) vertical 0.28mm; (ii) lateral 0.18mm	
5.4 Durability		
5.4.1 Wear after 200,000 cycles	(i) vertical 0.58mm; (ii) lateral 0.31mm	
5.4.2 Maximum permissible frictional torque measured after the first 20 cycles and also after completion of test	Passed: below 3Nm	
5.5 Corrosion resistance		
5.5.1 Salt Spray Test	Passed salt spray test of 240 hrs	
Dangerous Substances Annex ZA3	If a reference to dangerous substances is added in the table ZA.1, the following claim is suggested: 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	

10. The performance of the product identified in points 1 and 2 is in conformity with 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:

**Chris Gorse**  
Managing Director

Excel Architectural Hardware Limited  
Errisbeg House, Barton Turn, Barton Under Needwood, Burton Upon Trent, Staffordshire, DE13 8EB, United Kingdom  
23rd January, 2013