Construction Products Regulation 2011
Declaration of Performance

Dop Number: **NICO 5315 EB**

1. Unique identification code of the product-type:

5315 0EB 4" x 3" x 3mm Ball Bearing Butt hinge

5315 0R10EB 4" x 3" x 3mm Round Corner Ball Bearing Butt hinge

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:

5315 0EB 5315 0R10EI All parts Electro-brassed Stainless

3. Intended use or uses of the construction product, in accordance with the applicable harmonised 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)

Nico Manufacturing Ltd, 109 Oxford road, Clacton-on-Sea, ESSEX, CO15 3TJ, United Kingdom

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 harmonised standard. EN 1935:2002 Notified body certification **No.1121** performed the determination of the product type on the basis of type testing (including sampling); initial inspection of the manufacturing plant and of the factory production control and continuous surveillance; assessment and evaluation of factory production control; and issued the certificate of constancy of performance of the product.

8. European Technical Assessment: **N/A**

9. Declared performance

Essential characteristics – Self closing	**Performance**	**Harmonised technical specification**
Initial friction torque with max. door mass 120 Kg	1.70Nm	EN 1935:2002
Static load		
Load deformation	Passed with a displacement under load: -lateral not more than 0.26mm -vertical not more than 0.22mm and a residual displacement after unloading. -lateral Less than 0.03mm -vertical Less than 0.07mm	
Overload	-no breakage of any hinge leaf, knuckle, barrel or pin nor any cracking or deformation visible to normal or corrected vision - the hinged test element remained connected to the frame.	
Shear Strength	Passed with a lateral and vertical displacement after unloading not more than 1mm - (N/A for lift off hinges)	
Hinges for use on fire resistant and/or smoke-control doors;	Grade 1: suitable for use on fire/smoke resistant door assemblies.	
Essential characteristics – Durability	**Performance**	**Harmonised technical specification**
Durability	Passed a 200,000 cycles test with a maximum wear: -lateral Less than 0.11mm -vertical Less than 0.11mm with a maximum frictional torque - after 20 cycles 1.00Nm -after the completion of 200,000 cycles 1.00Nm	EN 1935:2002
Corrosion	Passed Grade 4: 240 hrs	
Dangerous Substances Annex ZA3	The materials in the product(s) 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:

Mr Ian Harrison (Marketing Director) Ian Harrison

Date of issue - 15th May 2013

Nico Manufacturing Ltd. Oxford Road, Clacton-on-Sea, ESSEX, United Kingdom