Certificate of Constancy of Performance

0359-CPR-00004-01



In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation), this certificate^{T4} applies to the construction product(s).

Product(s): Single axis hinges

(refer to attached appendix for details and conditions)

Placed on the market under the trade mark of: Allegion (UK) Limited

Produced in the manufacturing plant(s): A001

Intended use:

On fire/smoke compartmentation doors fitted with door closing devices (to enable such doors to close reliably and thus achieve self closing in the event of fire)

Bescot Crescent, Walsall, West Midlands, WS1 4DL, United Kingdom.

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/AC:2003

Under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

This certificate was first issued under CPD (89/106/EEC) 12th August 2009 and re-issued on 18th February 2016 under CPR (305/2011) 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The issued document and statement(s) herein makes reference only to a presumption of conformity in accordance with the CPR Regulations EU 305/2011 (as amended). However, it is the manufacturer's or their authorised representative's sole responsibility to affix the CE logo and, by doing so, confirms full compliance and conformity to all other European mandatory directives and regulations that may also apply.

Intertek Testing & Certification Limited Cleeve Road, Leatherhead Surrey, KT22 7SB

Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

E-mail: cpd.uk@intertek.com

David Bigland

Certification Manager

18 FEB-2016

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Certificate of Constancy of Performance 0359-CPR-00004-01



Appendix to Certificate of Constancy of Performance 0359-CPR-0004

Model Ref: Briton 4801, Briton 4802, Briton 4803, Briton 4801.316, Briton 4802.316, Briton 4803.316

Table A1. Product description for single axis hinges (EN 1935:2002/AC:2003) from Allegion (UK) Limited.

	Model No. ^{1,2,3}		Dimensions		
Brand		L(Inches)	W(Inches)	Thickness (mm)	Material⁴
Briton	Briton 4801	4	3	3	SUS304
Briton	Briton 4802	4	3.5	3	SUS304
Briton	Briton 4803	4	4	3	SUS304
Briton	Briton 4801.316	4	3	3	SUS316
Briton	Briton 4802.316	4	3.5	3	SUS316
Briton	Briton 4803.316	4	4	3	SUS316

Note.

- 1. 2 ball Bearings butt hinge
- 2. Five knuckles for each model
- 3. Surface Finishes Polished
- 4. European Designation (EN) Austenitic Stainless Steel 1.4301 and 1.4401 (EN10088-1:2014 List of stainless steels)

Table A2. Product classification for single axis hinges from Allegion (UK) Limited. a,c

Product Classification							
4	7	6	1 ^b	1	4	0	13

Notes.

- a. The single axis hinges shall be installed in accordance with the installation instructions for the product(s).
- b. Digit 4 grade "1" was based on the test result from fire resistance test(s) (refer to Table A4).
- c. This certificate of constancy of performance, refers to the requirements for the product(s) described under the CPR. There may be other European Directives, where requirements need to be declared before CE marking can be affixed by the manufacturer or their authorised representative

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00004 Issue: 1

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

Certificate of Constancy of Performance 0359-CPR-00004-01



Supporting test reports for this certificate are as follows:

Table A3. Mechanical test reports & product classification for single axis hinges from Allegion (UK) Limited.

Test Report Model tested		Product Classification							
150629077GZU-001	Briton 4802	4	7	6	а —	1	0	1	13

Model numbers assessed as having same performance: Briton 4801, Briton 4803, Briton 4801.316, Briton 4802.316, Briton 4803.316

Notes

a. Digit 4 becomes "1" after successful outcome of fire resistance test (refer to Table A4).

Table A4. Fire test report(s) for single axis hinges from Allegion (UK) Limited.

Test Report	Model tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation(I)
150630009SHF-BP-1	Briton 4803	EN 1634-1: 2014	60	60

Model numbers assessed as having same performance: Briton 4801, Briton 4802, Briton 4801.316, Briton 4802.316, Briton 4803.316

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00004 Issue: 1

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

Certificate of Constancy of Performance 0359-CPR-00004-01



Table A5. Single axis hinges (EN 1935:2002/AC:2003) according to the Annex ZA, Table ZA.1.

Product:	Single-axis hinges as defined in clause 1 of this standard.				
Intended uses:	On fire/smoke compartmentation doors fitted with door closing devices (to enable such doors to close reliably and thus achieve self closing in the event of fire)				
Requirement / characteristic	Requirement clauses in this European Standard	Results			
Self closing	5.1 Initial friction torque	Less than 4,0 Nm with door mass 120 kg			
	5.2 static Load — Load deformation	Pass with a displacement under load: - Lateral < 4 mm; - Vertical < 2 mm And a residual displacement after unloading: - Lateral < 0,2 mm; - Vertical < 0,3 mm			
	5.2 static Load — Overload	Pass			
	5.3 Shear strength	Pass No breakage and cracking Lateral deformation under loading < 3 mm Additional lateral and vertical displacement after unloading < 1 mm			
	5.6 Hinges for use on fire- resistant and/or smoke- control doors	Grade 1: suitable for use on fire/smoke resistant door assemblies			
Durability	5.4 Durability	Pass (200,000 cycles) Maximum wear: - Lateral < 0,2 mm - Vertical < 1 mm Maximum frictional torque: - After 20 cycles and completion of 200,000 cycles less than 4,0 Nm.			
	5.5 Corrosion resistance	Grade 4, Neutral Salt Spray (NSS) – 240 hours			
Dangerous substances	Note 1 of ZA 1	No dangerous substances declared for this product/intended use			

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00004 Issue: 1

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.