

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.

Brand	Model No. ^{1,2,3}	Dimensions			Material ⁴
		L(Inches)	W(Inches)	Thickness (mm)	
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

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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							
		4	7	6	^a	1	0	1	13
150629077GZU-001	Briton 4802	4	7	6	^a	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				

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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

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