

Certificate of Constasy of Performance

0359-CPR-00356

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 applies to the construction product(s).

Product(s): Single axis hinges
(refer to attached appendix for details and conditions)

Produced by or for: Voset UK Limited, 20 Broadwick Street, Soho, London, W1F 8HT.
UNITED KINGDOM.

Produced in the manufacturing plant(s): A003

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)

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

Building hardware. Single-axis hinges. Requirements and test methods

Under system 1 are applied and that the product(s) fulfils all the prescribed requirements set out above.

This certificate was first issued on 3rd February 2015 under CPR (305/2011) and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.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.

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David Bigland
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Date 3 Feb-2015
Issue 1

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

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Appendix to Certificate of Constancy of Performance 0359-CPR-00356

Model Ref: VH2B Series hinges refer to Table A1

Table A1. Product Description for Hinges range from VOSET UK LIMITED.

Model No.	Sizes	Type	Finishes	Material
VH2B-433-SSS	102x76x3mm	2BB Butt Hinge	Satin	SS304
VH2B-433-PB	102x76x3mm	2BB Butt Hinge	Polished	SS304
VH2B-433-PVD	102x76x3mm	2BB Butt Hinge	PVD	SS304
VH2B-43.53-SSS	102x89x3mm	2BB Butt Hinge	Satin	SS304
VH2B-43.53-PB	102x89x3mm	2BB Butt Hinge	Polished	SS304
VH2B-43.53-PVD	102x89x3mm	2BB Butt Hinge	PVD	SS304
VH2B-443-SSS	102x102x3mm	2BB Butt Hinge	Satin	SS304
VH2B-443-PB	102x102x3mm	2BB Butt Hinge	Polished	SS304
VH2B-443-PVD	102x102x3mm	2BB Butt Hinge	PVD	SS304
VH2B-4.543-SSS	114x102x3mm	2BB Butt Hinge	Satin	SS304
VH2B-4.543-PB	114x102x3mm	2BB Butt Hinge	Polished	SS304
VH2B-4.543-PVD	114x102x3mm	2BB Butt Hinge	PVD	SS304
VH2B-4.54.53-SSS	114x114x3mm	2BB Butt Hinge	Satin	SS304
VH2B-4.54.53-PB	114x114x3mm	2BB Butt Hinge	Polished	SS304
VH2B-4.54.53-PVD	114x114x3mm	2BB Butt Hinge	PVD	SS304
VH2B-4.543.5-SSS	114x102x3.5mm	2BB Butt Hinge	Satin	SS304
VH2B-4.543.5-PB	114x102x3.5mm	2BB Butt Hinge	Polished	SS304
VH2B-4.543.5-PVD	114x102x3.5mm	2BB Butt Hinge	PVD	SS304
VH2B-4.54.53.5-SSS	114x114x3.5mm	2BB Butt Hinge	Satin	SS304
VH2B-4.54.53.5-PB	114x114x3.5mm	2BB Butt Hinge	Polished	SS304
VH2B-4.54.53.5-PVD	114x114x3.5mm	2BB Butt Hinge	PVD	SS304

Notes.
1. BB – ball bearings

Table A2. Product classification for Hinges (according to EN 1935:2002/AC:2003) ^{a,c}

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

Notes.

a. Single axis hinges are to be installed in accordance with the installation instructions for the product(s).

b. Digit 4 becomes "1" after successful outcome of fire resistance test (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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Table A3. Mechanical test reports & product classification for hinges

Test Report	Hinge size tested	Product Classification							
		4	7	6	- ^a	1	4	0	13
150109081GZU-1	102 x 76 x 3mm 114 x 114 x 3.5mm								
Model numbers assessed as having same performance: Models in Table A1.									
Notes.									
a. Digit 4 becomes "1" after successful outcome of fire resistance test (refer to Table A4).									

Table A4. Fire test reports for hinges

Test Report	Hinge size tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation (I)
150109081GZU-1	114 x 114 x 3.5mm with satin finish	EN 1634-1: 2014	115	115
Model numbers assessed as having same performance: models listed in Table A1.				

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Table A5. Single axis hinges - EN 1935 Table ZA.1 Clauses for hinges

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 120kg
	5.2 static Load — Load deformation	Pass with a displacement under load: <ul style="list-style-type: none"> - Lateral < 4 mm; - Vertical < 2 mm And a residual displacement after unloading: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - Lateral < 0,2 mm - Vertical < 1 mm Maximum frictional torque: <ul style="list-style-type: none"> - After 20 cycles and completion of 200,000 cycles, less than 4,0Nm.
	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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