

CERTIFICATE OF CONSTANCY OF PERFORMANCE

0905-CPR-210306-01

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s)

Product(s): Building hardware - Single-axis hinges - Requirements and test methods (refer to attached appendix for details and conditions)

Placed on the market under the name or trade mark of: Jincheng Hardware Industry Co., Ltd.
No. 191 Wudong Industrial Development Zone, Lile Town, Jianghai District, Jiangmen City, Guangdong Province, China.

and produced in the manufacturing plant(s): SG-15852

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

Under System 1 for the performances set out in this certificate are applied and that the performance of the construction product fulfils all the prescribed requirements for these performances.

This certificate first issued on **2021-02-25** 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 performances of the declared essential characteristics, do not change, and the construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.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.



0905

Signature:



Date: 2021-02-25

Issue: 01

Name:

Dipl.-Ing. Bernhard Miedtank

Position: Certification Manager

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APPENDIX TO: Certificate of Constancy of Performance

Brand: JCH

Model Ref: SS403030-2BB, SS403530-2BB, SS404030-2BB, SS453030-2BB, SS453530-2BB, SS454030-2BB, SS454530-2BB, SS503030-2BB, SS503530-2BB, SS504030-2BB, SS504530-2BB

Table A1. Product Description for Hinges range from Jincheng Hardware Industry Co., Ltd.

Model No.	Size L (inch) * W (inch) * T (mm)	Type ¹	Material ²	Finish
SS403030-2BB	4*3*3	2BB butt hinge	1.4301	Satin
SS403530-2BB	4*3.5*3	2BB butt hinge	1.4301	Satin
SS404030-2BB	4*4*3	2BB butt hinge	1.4301	Satin
SS453030-2BB	4.5*3*3	2BB butt hinge	1.4301	Satin
SS453530-2BB	4.5*3.5*3	2BB butt hinge	1.4301	Satin
SS454030-2BB	4.5*4*3	2BB butt hinge	1.4301	Satin
SS454530-2BB	4.5*4.5*3	2BB butt hinge	1.4301	Satin
SS503030-2BB	5*3*3	2BB butt hinge	1.4301	Satin
SS503530-2BB	5*3.5*3	2BB butt hinge	1.4301	Satin
SS504030-2BB	5*4*3	2BB butt hinge	1.4301	Satin
SS504530-2BB	5*4.5*3	2BB butt hinge	1.4301	Satin
Notes:				
1. BB-ball bearings, five knuckles				
2. Refer to EN 10088-1 for European Designation (EN) for SS304 and SS201 (stainless steels).				

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Table A2. Mechanical test report & product classification for hinges from Jincheng Hardware Industry Co., Ltd.

Test Report	Model tested	Product Classification							
190926121GZU-001	SS403030-2BB	4	7	6	1 ^a	1	4	0	13
Model numbers assessed as having same performance: SS403530-2BB, SS404030-2BB, SS453030-2BB, SS453530-2BB, SS454030-2BB, SS454530-2BB, SS503030-2BB, SS503530-2BB, SS504030-2BB, SS504530-2BB									
Notes.									
a. Digit 4 becomes "1" after successful outcome of fire resistance test (refer to Table A3).									
b. Single axis hinges are to be installed in accordance with the installation instructions for the product(s).									

Table A3. Fire test report for hinges from Jincheng Hardware Industry Co., Ltd.

Test Report	Model tested	Test Method	Fire Resistance (minutes) ^a
			Integrity (E)
191025003SHF-001	SS403030-2BB	EN 1634-1: 2014+A1:2018	260
Model numbers assessed as having same performance: SS403530-2BB, SS404030-2BB, SS453030-2BB, SS453530-2BB, SS454030-2BB, SS454530-2BB, SS503030-2BB, SS503530-2BB, SS504030-2BB, SS504530-2BB			
Note:			
a. The tested single leaf single action swing steel door was oriented to open away from the furnace.			

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Table A4. Single axis hinges - EN 1935 Table ZA.1 Clauses for Hinges from Jincheng Hardware Industry Co., Ltd.

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	Grade 13, with a displacement under load (240 kg mass): - Lateral < 4 mm; - Vertical < 2 mm. - And a residual displacement after unloading: Pass
	5.2 Static load - Overload	Grade 13, Overload mass 360 kg
	5.3 Shear strength	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 resistant door assemblies (see Table A3).
Durability	5.4 Durability	Grade 7 (200,000 cycles) Maximum wear: - Lateral < 0.5 mm - Vertical < 0.2 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

END OF DOCUMENT

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