

CERTIFICATE OF CONSTANCY OF PERFORMANCE

0905-CPR-000586-01

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: Hebei Jianhua Lock Industry Co., Ltd.
Road 3, Development Area, Botou City, Hebei Province, 062150, China

and produced in the manufacturing plant(s): SG-15481

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 replaces **0359-CPR-000586-02** first issued on **2018-02-28** 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construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.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.

Signature:

Date: 2019-09-10

Name:

Dipl.-Ing. Roland Heine

Issue: 01

Position: Certification Manager



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Brand: **N/A**

Model Ref: **4" x 3" x 3 mm, 4" x 3.5" x 3 mm, 4" x 4" x 3 mm, 4.5" x 4" x 3 mm, 5" x 3" x 3 mm,
5" x 3.5" x 3 mm, 5" x 4" x 3 mm**

Table A1. Product Description for Hinges range from Hebei Jianhua Lock Industry Co., Ltd.

Model No. and sizes	Type ¹	Knuckles	Material ²
4" x 3" x 3 mm	2BB butt hinge	5	SS304
4" x 3.5" x 3 mm	2BB butt hinge	5	SS304
4" x 4" x 3 mm	2BB butt hinge	5	SS304
4.5" x 4" x 3 mm	2BB butt hinge	5	SS304
5" x 3" x 3 mm	2BB butt hinge	5	SS304
5" x 3.5" x 3 mm	2BB butt hinge	5	SS304
5" x 4" x 3 mm	2BB butt hinge	5	SS304
Notes:			
1. BB-ball bearings			
2. Refer to EN 10088-1 for European Designation (EN) for SS304 (stainless steels).			
3. Satin finish tested			

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Table A2. Mechanical test reports & product classification for hinges from Hebei Jianhua Lock Industry Co., Ltd.

Test Report	Model tested	Product Classification							
170821052GZU-001 190117125GZU-001	4" x 3" x 3 mm, 5" x 4" x 3 mm	4	7	6	1 ^a	1	4	0	13
Model numbers assessed as having same performance: models listed in Table A1 above.									
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 reports for hinges from Hebei Jianhua Lock Industry Co., Ltd.

Test Report	Model tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation (I)
171101005SHF-BP-2	4" x 3" x 3 mm	EN 1634-1:2014	260	17
Test configuration: Single leaf single action swing steel fire door assembly				
Orientation: Open away the furnace.				
171101004SHF-BP-1	5" x 4" x 3 mm	EN 1634-1:2014	111	111
Test configuration: Single leaf single action swing timber fire door assembly				
Orientation: Open into the furnace.				
Model numbers assessed as having same performance: Models listed in Table A1 above.				

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Table A4. Single axis hinges - EN 1935 Table ZA.1 Clauses for Hinges from Hebei Jianhua Lock 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 120kg
	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 (see Table A3).
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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