CERTIFICATE OF CONSTANCY OF PERFORMANCE

0905-CPR-250724-01

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: **Shandong Hanrui Hardware Co., Ltd.**
Bldg 10-116, No. 10 Jingshan Road, Zhifu District, Yantai City, Shandong Province, **China**

and produced in the manufacturing plant(s): **SG-22296**

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 was first issued on **2025-08-07** 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construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body

CE

0905

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: 123144 **Date:** **2025-08-07**

Issue: **01**

Name: **Dipl.-Ing. Roland Heine** **Position:** **Certification Manager**

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APPENDIX TO: Certificate of Constancy of Performance

Brand: **DIROCK**

Model Ref: 4"X3"X3.0-2BB-304, 4"X3.5"X3.0-2BB-304, 4"X4"X3.0-2BB-304, 4.5"X3"X3.0-2BB-304, 4.5"X3.5"X3.0-2BB-304, 4.5"X4"X3.0-2BB-304, 4.5"X4.5"X3.0-2BB-304, 5"X3"X3.0-2BB-304, 5"X3.5"X3.0-2BB-304, 5"X4"X3.0-2BB-304, 5"X4.5"X3.0-2BB-304, 4"X3"X3.0-2BB-201, 4"X3.5"X3.0-2BB-201, 4"X4"X3.0-2BB-201, 4.5"X4"X3.0-2BB-201, 4"X3"X3.0-2BB-316, 4"X3.5"X3.0-2BB-316, 4"X4"X3.0-2BB-316

Table A1. Product Description for Hinges from Shandong Hanrui Hardware Co., Ltd.

Model No.	Size L(inch) * W(inch) * T(mm)	Type [1]	Material [2]	Finish
4"X3"X3.0-2BB-304	4x3x3	Butt hinge	1.4301	Satin
4"X3.5"X3.0-2BB-304	4x3.5x3	Butt hinge	1.4301	Satin
4"X4"X3.0-2BB-304	4x4x3	Butt hinge	1.4301	Satin
4.5"X3"X3.0-2BB-304	4.5x3x3	Butt hinge	1.4301	Satin
4.5"X3.5"X3.0-2BB-304	4.5x3.5x3	Butt hinge	1.4301	Satin
4.5"X4"X3.0-2BB-304	4.5x4x3	Butt hinge	1.4301	Satin
4.5"X4.5"X3.0-2BB-304	4.5x4.5x3	Butt hinge	1.4301	Satin
5"X3"X3.0-2BB-304	5x3x3	Butt hinge	1.4301	Satin
5"X3.5"X3.0-2BB-304	5x3.5x3	Butt hinge	1.4301	Satin
5"X4"X3.0-2BB-304	5x4x3	Butt hinge	1.4301	Satin
5"X4.5"X3.0-2BB-304	5x4.5x3	Butt hinge	1.4301	Satin
4"X3"X3.0-2BB-201	4x3x3	Butt hinge	1.4372	Satin
4"X3.5"X3.0-2BB-201	4x3.5x3	Butt hinge	1.4372	Satin
4"X4"X3.0-2BB-201	4x4x3	Butt hinge	1.4372	Satin
4.5"X4"X3.0-2BB-201	4.5x4x3	Butt hinge	1.4372	Satin
4"X3"X3.0-2BB-316	4x3x3	Butt hinge	1.4401	Satin
4"X3.5"X3.0-2BB-316	4x3.5x3	Butt hinge	1.4401	Satin
4"X4"X3.0-2BB-316	4x4x3	Butt hinge	1.4401	Satin

Notes:

1. BB-ball bearings, five knuckles
2. Refer to EN 10088-1 for European Designation (EN) for stainless steels.

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Table A2. Mechanical test report(s) and product classification for hinges from Shandong Hanrui Hardware Co., Ltd.

Mechanical test reports	Model Tested	Product Classification							
200930011GZU-001	4"X3"X3.0-2BB-304, 4"X3.5"X3.0-2BB-304, 4"X4"X3.0-2BB-304, 4.5"X3"X3.0-2BB-304, 4.5"X3.5"X3.0-2BB-304, 4.5"X4"X3.0-2BB-304, 4.5"X4.5"X3.0-2BB-304, 5"X3"X3.0-2BB-304, 5"X3.5"X3.0-2BB-304, 5"X4"X3.0-2BB-304, 5"X4.5"X3.0-2BB-304	4	7	6	1[1]	1	4	0	13
230620130GZU-001	4"X3"X3.0-2BB-201, 4"X3.5"X3.0-2BB-201, 4"X4"X3.0-2BB-201, 4.5"X4"X3.0-2BB-201, 4"X3"X3.0-2BB-316, 4"X3.5"X3.0-2BB-316, 4"X4"X3.0-2BB-316	4	7	6	1[1]	1	4	0	13

Notes:

1. Digit 4 grade “1” was based on the test result from fire resistance test (refer to Table A3).
2. Single axis hinges are to be installed in accordance with the installation instructions for the product(s).

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Table A3. Fire test report(s) for hinges from Shandong Hanrui Hardware Co., Ltd.

Fire test reports	Model Tested	Test Method	Fire Resistance (minutes)
			Integrity (E)
201029002SHF-001 231211010SHF-001	4”X3”X3.0-2BB-304	EN 1634-1:2014+A1:2018	260
Test configuration:	Single leaf single action swing steel fire door assembly		
Orientation:	Open away from the furnace		
Model numbers were assessed as having same performance: 4”X3.5”X3.0-2BB-304, 4”X4”X3.0-2BB-304, 4.5”X3”X3.0-2BB-304, 4.5”X3.5”X3.0-2BB-304, 4.5”X4”X3.0-2BB-304, 4.5”X4.5”X3.0-2BB-304, 5”X3”X3.0-2BB-304, 5”X3.5”X3.0-2BB-304, 5”X4”X3.0-2BB-304, 5”X4.5”X3.0-2BB-304, 4"X3"X3.0-2BB-316, 4"X3.5"X3.0-2BB-316, 4"X4"X3.0-2BB-316			

Fire test reports	Model Tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation (I)
230706001SHF-001-R2	4.5"X4"X3.0-2BB-201	EN 1634-1:2014+A1:2018	132	132
Test configuration:	Single leaf single action swing timber composite fire door assembly			
Orientation:	Open into the furnace			
Model numbers were assessed as having same performance: 4"X3"X3.0-2BB-201, 4"X3.5"X3.0-2BB-201, 4"X4"X3.0-2BB-201, 4"X3"X3.0-2BB-316, 4"X3.5"X3.0-2BB-316, 4"X4"X3.0-2BB-316, 4"X3"X3.0-2BB-304, 4"X3.5"X3.0-2BB-304, 4"X4"X3.0-2BB-304, 4.5"X3"X3.0-2BB-304, 4.5"X3.5"X3.0-2BB-304, 4.5"X4"X3.0-2BB-304				

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Table A4. Single axis hinges - EN 1935 Table ZA.1 Clauses for Hinges from Shandong Hanrui Hardware 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 < 0.2 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

END OF DOCUMENT

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