

CERTIFICATE OF CONSTANCY OF PERFORMANCE

0905-CPR-241094-01

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 – Panic exit device(s) operated by a horizontal bar (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-24348
Intended use: For doors on escape routes.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN 1125:2008

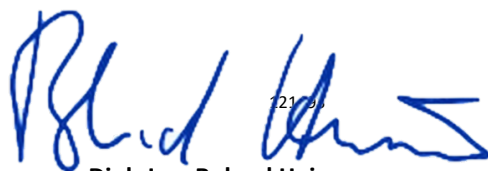
Under System 1 for the performances set out in this certificate are applied and that the performance of the construction product fulfils all the prescribed requirements for these performances

This certificate was first issued on **2024-12-13** 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construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body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: 2024-12-13

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: 350P, 360P, 450P, 460P, 500P, 500-1P, F5000P, 560P, 560-1P, 583P
350S, 360S, 450S, 460S, 500S, 500-1S, F5000S, 560S, 560-1S, 583S

Table A1. Model number(s) details for Panic Exit Device(s) from Shandong Hanrui Hardware Co., Ltd.

Model List ²	Single Door	Double Door		Lock & Latch Type	Bar Type
		Active door	Inactive door		
350P, 350S	√	√	--	Latch	Push
450P, 450S	√	√	--	Latch	Push
360P, 360S	--	--	√	Top+bottom latches	Push
460P, 460S	--	--	√	Top+bottom latches	Push
500P, 500S	√	√	--	Latch	Touch
500-1P, 500-1S	√	√	--	Latch	Touch
F5000P, F5000S	√	√	--	Latch	Touch
560P, 560S	--	--	√	Top+bottom latches	Touch
560-1P, 560-1S	--	--	√	Top+bottom latches	Touch
583P, 583S	√	--	--	Latch and bolt	Touch
Accessories					
008E	Lever outside access device				
006S	Lever outside access device				
017S	Lever outside access device				
018S	Lever outside access device				
Notes:					
1. Building hardware tested for use on metal doors and metal frames, as described in fire resistance test reports (see summary Table A3)					
2. Model P&S have same construction and classification except material of shell. The material of model P is carbon stainless and model S is stainless steel.					

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Table A2. Mechanical test report(s) and product classification for Panic Exit Device(s) from Shandong Hanrui Hardware Co., Ltd. ^{a, b}

Mechanical test reports	Model List	Product Classification									
200710001SHF-009	350P, 350S	3	7	6	B ^b	1	4	2	2	A	A
	450P, 450S	3	7	6	B ^b	1	4	2	2	A	A
	360P, 360S	3	7	6	B ^b	1	4	2	2	A	C
	460P, 460S	3	7	6	B ^b	1	4	2	2	A	C
200710001SHF-010	500P, 500S	3	7	6	B ^b	1	4	2	2	B	A
	500-1P, 500-1S	3	7	6	B ^b	1	4	2	2	B	A
	F5000P, F5000S	3	7	6	B ^b	1	4	2	2	B	A
	560P, 560S	3	7	6	B ^b	1	4	2	2	B	C
	560-1P, 560-1S	3	7	6	B ^b	1	4	2	2	B	C
200710001SHF-001	583P, 583S	3	7	6	B ^b	1	4	2	2	B	B

Notes:

- The panic exit device(s) are to be installed in accordance with the installation instructions for the product(s).
- Digit 4 grade "B" was based on the test result from fire resistance test(s) (Refer to Table A3).

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Table A3. Fire test report(s) for Panic Exit Device(s) from Shandong Hanrui Hardware Co., Ltd. ^{a, b}

Fire test reports	Tested Model	Test Method	Test door orientation ¹	Fire resistance (Minutes) ²
				Integrity (E)
SINGLE ACTION SINGLE DOOR METAL (STEEL) LEAF & METAL (STEEL) FRAME				
200710001SHF-008 ³	350P	EN 1634-1:2014+A1:2018	Away	240
			Into	240
200710001SHF-007 ⁴	500P	EN 1634-1:2014+A1:2018	Away	132
			Into	132
200710001SHF-006 ⁵	583P	EN 1634-1:2014+A1:2018	Away	132
			Into	132
SINGLE ACTION DOUBLE DOOR METAL (STEEL) LEAF & METAL (STEEL) FRAME				
200710001SHF-002 ⁶	350P (active) 360P (inactive)	EN 1634-1:2014+A1:2018	Away	132
200710001SHF-003 ⁶			Into	132
200710001SHF-004 ⁷	500P (active) 560P (inactive)	EN 1634-1:2014+A1:2018	Away	240
200710001SHF-005 ⁷			Into	240
Note:				
1. Away is test door leaf open away from the fire. Into is test door leaf open into the fire.				
2. The test doors were uninsulated steel doors. Test Integrity only.				
3. Model 350S, 450P/S were assessed as having same performance.				
4. Model 500S, 500-1P/S, F5000P/S were assessed as having same performance.				
5. Model 583S was assessed as having same performance.				
6. (350S+360S), (350P/S+460P/S), (450P/S+360P/S), (450P/S+460P/S) were assessed as having same performance.				
7. (500S+560S), (500P/S+560-1P/S), (500-1P/S+560P/S), (500-1P/S+560-1P/S), (F5000P/S+560P/S), (F5000P/S+560-1P/S) were assessed as having same performance.				

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Table A4. Annex ZA Table ZA.1 Clauses for panic exit devices for Shandong Hanrui Hardware Co., Ltd.

Product:	Panic exit devices operated by a horizontal bar as covered by the scope of EN1125.	
Intended Uses:	For doors on escape routes.	
Requirement / characteristic	Requirement clauses in this European Standard	Results
Ability to release (for doors on escape routes)	4.1.2 Release function	< 1 second
	4.1.3 Panic exit device mounting	Mounted on the inside face of the door.
	4.1.5 Exposed edges and corners	No sharp edges
	4.1.7 Double doorset	Pass (Not applicable for 583P/S)
	4.1.9 Bar installation	Z < 150 mm
	4.1.10 Bar length	X/Y > 60%
	4.1.11 Bar projection	Standard projection Category 2: W < 100 mm
	4.1.12 Bar end	The operating bar does not protrude beyond either of the end support brackets
	4.1.13 Operating bar face	Type A, V > 18 mm
	4.1.14 Test rod	The device does not trap the test rod in any position of the operating bar
	4.1.15 Door face gap	R > 25 mm
	4.1.16 Accessible gap	The test piece placed in any accessible gap cannot prevent the correct operation of the device
	4.1.17 Door free movement	The device does not include any element impeding the free movement of the door once it is released
	4.1.18 Top vertical bolt	Compliant
	4.1.20 Keepers	Compliant
	4.1.21 Keepers dimensions	Compliant
	4.1.23 Door mass and dimensions	Mass 200 Kg, height ≤ 2520 mm, width ≤ 1320 mm
	4.1.24 Outside access device	Pass
	4.2.2 Release forces	< 80 N with the door unloaded < 220 N with the door loaded with 1 000 N
	4.2.7 Security requirement	Grade 2: the device remains locked when a force of 1000N is applied to the door

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Durability of ability to release against aging and degradation (for doors on escape routes)	4.1.4; 4.2.9 Corrosion resistance	Grade 4: Very high resistance (240 hours)
	4.1.6 Temperature range	-10°C; +60°C
	4.1.19 4.2.6 Covers for vertical rods	Pass
	4.1.22 Lubrication	Refer to Manufacturer's Maintenance Instructions
	4.2.3 Re-engagement force	< 50 N
	4.2.4 Durability	Grade 7: 200 000 test cycles
	4.2.5 Abuse resistance – Horizontal bar	Pass (350P/S, 360P/S, 450P/S, 460P/S only)
	4.2.6 Abuse resistance –Vertical rod	Pass
	4.2.8; 4.2.2; 4.1.17 Final examination	The device is released with a force< 80 N, with the door unloaded, and < 220 N, with the door loaded with 1 000 N, and the door moves freely
Self closing ability C (for fire/smoke doors on escape routes)	4.2.3 Re-engagement force	< 50 N
Durability of self closing ability C against aging and degradation (for fire/smoke doors on escape routes)	4.2.4 Durability	Grade 7: 200 000 test cycles
	4.2.3 Re-engagement force	< 50 N
Resistance to fire E (integrity) and (insulation) (for fire doors on escape routes)	4.1.8; Annex B Suitability of panic exit devices for use on fire/smoke resisting door assemblies –	Grade B: suitable for use on fire/smoke resisting door assemblies (refer to Table A3).
Control of Dangerous substances	4.1.25 Dangerous substances	No dangerous substances declared for this product/intended use

END OF DOCUMENT

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