Certificate of Constancy of Performance 0359-CPR-000554



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)

Placed on the market Amsun Architectural Hardware Co. Ltd.

under the trade mark of: No.33, Gaoxinxi Road, Jiangmen, Guangdong, China, 529040.

Produced in the

manufacturing plant(s):

800A

Intended use: On fire/smoke compartmentation doors fitted with a 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 performance set out in this certificate are applied and that the performance of the construction product is assessed to remain

constant.

This certificate was first issued on 26th June 2017, revised on 18th July 2017 under CPR (305/2011) and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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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Date 18 Jul-2017

Issue 0

David Bigland,

Certification Manager

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Appendix to Certificate of Constancy of Performance 0359-CPR-000554

Model Ref: Refer to Table A1 for model number and variant details.

Table A1. Product description for single axis hinges from Amsun Architectural Hardware.

Model No. a	Dimensions			Meterialh	Cinioh	
wodei No. "	L(mm)	W(mm)	T (mm)	- Material ^b	Finish	
AM111	102	76	3.0	SS201	Satin	
AM112	102	76	3.0	SS201	Polished	
AM113	102	76	3.0	SS201	PVD	
AM121	102	76	3.0	SS304	Satin	
AM122	102	76	3.0	SS304	Polished	
AM123	102	76	3.0	SS304	PVD	
AM221	102	89	3.0	SS304	Satin	
AM222	102	89	3.0	SS304	Polished	
AM223	102	89	3.0	SS304	PVD	
AM321	102	102	3.0	SS304	Satin	
AM322	102	102	3.0	SS304	Polished	
AM323	102	102	3.0	SS304	PVD	
AM421	114	102	3.0	SS304	Satin	
AM422	114	102	3.0	SS304	Polished	
AM423	114	102	3.0	SS304	PVD	
AM521	114	114	3.0	SS304	Satin	
AM522	114	114	3.0	SS304	Polished	
AM523	114	114	3.0	SS304	PVD	
AM621	114	102	3.5	SS304	Satin	
AM622	114	102	3.5	SS304	Polished	
AM623	114	102	3.5	SS304	PVD	
AM711	114	114	3.5	SS201	Satin	
AM712	114	114	3.5	SS201	Polished	
AM713	114	114	3.5	SS201	PVD	
AM721	114	114	3.5	SS304	Satin	
AM722	114	114	3.5	SS304	Polished	
AM723	114	114	3.5	SS304	PVD	

Notes.

- a. Five knuckles 2 Ball Bearings butt hinges
- b. European Designation (EN) Austenitic Stainless Steel 1.4372 and 1.4301 (EN10088-1:2014 List of stainless steels)

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Supporting test reports for this certificate are as follows:

Table A2. Mechanical test reports & product classification for single axis hinges from Amsun Architectural Hardware.

Test Report	Models	Product Classification							
4705440700711 004	AM111	4	7	6	1ª	1	4	0	13
170511079GZU-001	AM711	4	7	6	1ª	1	4	0	13

Model numbers assessed as having same performance: AM112, AM113, AM121, AM122, AM123, AM221, AM222, AM223, AM321, AM322, AM323, AM421, AM422, AM423, AM521, AM522, AM523, AM621, AM622, AM623, AM712, AM713, AM721, AM722, AM723

Table A3. Fire test report(s) for single axis hinges from Amsun Architectural Hardware. b, c

Test Report	Model tested	Test Method	Fire Resistance (minutes	
			Integrity (E)	Insulation(I)
170511079GZU-001	AM711	EN 1634-1: 2014	115	115

Model numbers assessed as having same performance: AM111, AM112, AM113, AM121, AM122, AM123, AM221, AM222, AM223, AM321, AM322, AM323, AM421, AM422, AM423, AM521, AM522, AM523, AM621, AM622, AM623, AM712, AM713, AM721, AM722, AM723

Notes.

- a. Digit 4 grade "1" was based on fire resistance test (refer to Table A3).
- b. The single axis hinges shall be installed in accordance with the installation instructions for the product(s).
- 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 A4. EN 1935 Annex ZA for Amsun Architectural Hardware.

Product:	Single-axis hinges: Refer to Table A1 for model and variant details.				
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	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			
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			

END OF DOCUMENT

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