Intertek Intertek Intertek Intertek Intertek Intert

Certificate of Constancy of Performance 0359-CPR-00081



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):

Controlled door closing devices

(refer to attached appendix for details and conditions)

Produced by or for:

Zhejiang Aibo Door Hardware Co., Ltd, Gaogang Industry Area Qingtian

Economy Dep Zhejiang 323903 CHINA.

Produced in the manufacturing plant(s):

Zhejiang Aibo Door Hardware Co., Ltd, Gaogang Industry Area Qingtian

Economy Dep Zhejiang 329903 CHINA.

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

EN 1154:1996/A1:2002/AC:2006

Building hardware - Controlled door closing devices - Requirements and test methods

Under system 1 are applied and that the product(s) fulfils all the prescribed requirements set out above.

This certificate was first issued on 12th June 2014 under CPR (305/2011) 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 performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

Notified Body 0359

Intertek Testing & Certification Limited

Cleeve Road, Leatherhead Surrey, KT22 7SB

Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

E-mail: cpd.uk@intertek.com

David Bigland

Certification Manager

D. Bilmel

Date 12 Jun 2014

Issue '

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.



Appendix to Certificate of Constancy of Performance 0359-CPR-00081

Model Ref: B3023AW and B3023BW

Product: Controlled door closing devices, as covered by the scope of this standard

Intended use: On fire and smoke compartmentation doors (to fulfil the self-closing requirements of such

doors)

Table A1. Product description for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Model No.	Latch Control	Backcheck	Delayed closing	Adjustable closing force	Zero position
B3023AW	Yes	No	No	Power size 3 (fixed)	N/A
B3023BW	Yes	Yes	No	Power size 3 (fixed)	N/A

Table A2. Product classification in accordance with EN 1154:1996/A1:2002/AC:2006

D1	D2	D3	D4	D5	D6
4	8	3	1	1	3

Where the Digits (D) are described as follows:

D1 Category of use

D2 Durability

D3 Door closer power size

D4 Suitability for use on fire/smoke compartmentation doors

D5 Safety

D6 Corrosion resistance

Notes.

- The door closers are to be installed in accordance with the installation instructions for the product(s).
- 2. 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.

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00081

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom



Table A3. EN 1154 Annex ZA Related Information for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Requirement/ characteristic	Standard clause	Result summary				
Self-closing	General (5.2.1)	Grade 4 (closing doors from at least 180° open)				
	Closing moment (5.2.3)	Door Closer Power Size 3 standard installation				
	- 5 000 test cycles - 500 000 test cycles	Between 0° and 4°		Between 88° and 92°	Any other angle of opening	
		Nm min.	Nm max.	Nm min.	Nm min.	
		18	< 26	6	4	
	Opening moment (5.2.4) and	Door Closer F	Power Size 3 (surface mounte	d)	
	Efficiency (5.2.5) - 5 000 test cycle	Opening between (Efficiency (%)		
	- 500 000 test cycles	47 Nm	max.	More than 55%		
	Closing time (5.2.6) - 5 000 cycles - 500 000 cycles	The closing time from an opening angle of 90° wa capable of adjustment to 3 s or less, and 20 s or n After 500 000 test cycles, the closing time set at 5 test cycles did not increase by more than 100%, o decrease by more than 30%.			set at 5 000	
	Angles of operation (5.2.7)	Grade 4, Closing doors from 180° open				
		Minimum angle of control from 135° to closed position				
	Overload performance (5.2.8)	Power Size 3: 21 kg (10 cycles) completed				
	Temperature dependence (5.2.9)	Closing time (90° open to fully closed) set at 5 s at 20°C).				
	- closing time	-15	°C	40°C		
		Not less than 3 s or more than 25 s				
	Fluid leakage (5.2.10)	No leakage throughout tests				
	Damage (5.2.11)	No damage observed/reported				
	Latch control (5.2.12)	Latch control effective within range of 0° to 15°				
	Backcheck (5.2.13)	B302	23AW	Not app	olicable	
	- Arresting angle	B302	23BW	Befor	re 90°	
	Delayed closing (5.2.14)	Not applicable				
	Adjustable closing force (5.2.15)	Not applicable				

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00081

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.



Requirement/ characteristic	Standard clause	Result summary		
	Zero position (5.2.18)	Not applicable to single action door closers		
	Fire/smoke door suitability (5.2.18)	Grade1, Refer to fire test report AU12024048-1 and EEV 130607053GZU-002 (see Table A5).		
Durability of self- closing	Durability (5.2.2)	500,000 test cycles		
	Corrosion resistance (5.2.17.1 and 5.2.17.2)	Grade 3, Neutral Salt Spray (NSS) for 96 hours		
Dangerous substances	See Clause ZA.3	No dangerous substances declared for this product/ intended use		

Table A4. Mechanical test reports & product classification for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Test Report	Model tested	Product Classification					
GZ11120115-1	B3023AW	4	8	3	1 ^a	1	3
130607053GZU-002	B3023BW	4	8	3	1 ^b	1	3

Notes.

- a. Digit 4 becomes "1" after successful outcome of fire resistance test (refer to Table A5).
- b. Digit 4 becomes "1" based on the evaluation report 130607053GZU-002 (refer to Table A5).

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00081

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom



Table A5. Fire test report for door closers from Zhejiang Aibo Door Hardware Co., Ltd.

Test Report		Model Tested		Took Motherd	Fire resistance			
				Test Method	Integrity (E)	Insulation (I)		
AU12024048-1		B3	023AW	EN 1634-1:2008	60 minutes	60 minutes		
B3023BW asse	essed as h	aving simila	ar performance,	refer to 130607053GZU-0	02.			
Fire Door Test Information								
Door material:		Timber (w	ooden) door (fu	lly insulated)				
Door configurat	tion:	Single Act	ion Single Door	(SASD)				
Door orientation	n:	Door teste	ed opening into the furnace					
Door leaf dimer	Door leaf dimensions:		ght (mm)	Width (mm)	Thickness (mm)			
		2092		843		54		
Frame dimensi	ons:	Height (mm)		2130				
(nominal size)		Width (mm)		905				
Latch			Euro Mortise Lockset Model number: S6072					
Hardware	Hinges		4" Hinge 101 r Model: EUCE Quantity: Thre	13EB;				
	Door clo	ser	Standard Insta Model B3023A					

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0)1372 370900, Fax: +44 (0)1372 370977, E-mail: cpd.uk@intertek.com

0359-CPR-00081

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom