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Testing. Advising. Assuring.

Title:

The fire resistance performance of two single-acting, single-leaf doorsets incorporating various items of hardware tested in accordance with BS EN 1634-1:2014

Report No:

380180



Prepared for:

**Consort Architectural
Hardware Limited**
29-31 Lower Loveday St,
Birmingham B19 3SB

Date: 27th April 2017

Notified Body No:

0833



Summary

Objective To determine the fire resistance performance of two single-acting, single-leaf doorsets incorporating various items of hardware in accordance with BS EN 1634-1: 2014.

Test Sponsor **Consort Architectural Hardware Limited**
29-31 Lower Loveday St, Birmingham B19 3SB

Summary of Tested Specimens For the purpose of the test the doorsets were referenced **Doorset A** and **Doorset B**.

Doorset A had overall nominal dimensions 2095 mm high by 1035 mm wide incorporating a door leaf with overall dimensions 2040 mm high by 935 mm wide by 60 mm thick. The door leaf comprised a 'WSCP' mineral fiber core, with 'Tectonite' composite board stiles and rails. The leaf was finished with 4 mm thick MDF facings and incorporated 4 mm thick hardwood lippings to the vertical and horizontal edges. The leaf was hung within an MDF faced, composite board frame. The doorset incorporated the following hardware:

Item Number	Description	Reference
8	Consort CBH103 Stainless Steel hinges.	CBH103
9	Consort Concealed Closer, with the closer body morticed into the head of the leaf.	CDCC3
10	Raven Threshold Seal, morticed into the base of the leaf	RP70Si
11	Raven Batwing seal	RP150

Doorset B had overall nominal dimensions 2095 mm high by 1035 mm wide incorporating a door leaf with overall dimensions 2040 mm high by 935 mm wide by 60 mm thick. The door leaf comprised a 'WSCP' mineral fiber core, with 'Tectonite' composite board stiles and rails. The leaf was finished with 4 mm thick MDF facings and incorporated 4 mm thick hardwood lippings to the vertical and horizontal edges. The leaf was hung within an MDF faced, composite board frame. The doorset incorporated the following hardware:

Item Number	Description	Reference
8	Consort CBH103 Stainless Steel hinges.	CBH103
12	Consort Concealed Closer, with the closer body morticed into the head of the leaf.	CDCC4
13	Consort Sashlock	CH7252F
14	Consort Cylinder	GL780.3
15	Consort Escutcheon	CH311
18	Rave Door Seal acting as frame stop	RP10Si
16	Raven Door Seal face fixed to the leaf threshold on the unexposed side	RP99Si
5	Raven 20 x 4 mm intumescent strip	RP 2004
6	Raven 25 x 4 mm intumescent strip	RP2504

Both doorsets were installed so that they opened towards the heating conditions and were unlatched for the duration of the test.


Test Results:		Doorset A	Doorset B
Integrity performance	Sustained flaming	121 minutes	122 minutes*
	Gap gauge	122 minutes*	122 minutes*
	Cotton Pad	120 minutes	104 minutes
Insulation performance		89 minutes	90 minutes


*The test was discontinued after a period of 122 minutes.

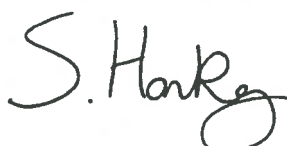
Date of Test: 24th February 2017

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* For and on behalf of **Exova Warringtonfire**.

Report Issued Date: 27 th April 2017
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