

BS 6375-2&3:2009



Test of: Flamebreak 430 - Single Door - Door Type 2

Performance of windows & doors - Part 2: Operation & strength & Part 3: Additional performance characteristics

A Report To:
Pacific Rim Wood Ltd
Ground Floor Suite, Block B, Old Kelways, Somerton Road, Langport,
Somerset, TA10 9SJ

Document Reference: WIL 501511-1

Date: 13/12/2021

Copy: 1

Issue No.: 1

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TEST CONCLUSIONS

Samples of:

Manufacturer Pacific Rim Wood Ltd

Product Flamebreak

Model Flamebreak 430 – Single Door – Door Type 2

have been tested in accordance with: BS6375-2:2009 & BS6375-3:2009 Annex A&C. By Element Materials Technology, a UKAS accredited Testing Laboratory (No. 0621)

At Unit 3 Wednesbury One, Black Country New Road, Wednesbury, WS10 7NZ. Results and comments as detailed below:

BS6375-2 Clause	Description	Compliance
6.1	UK Category of Duty - Medium	YES
6.2	Operating forces – Class 1	YES
6.3	Mechanical strength – Class 2	YES
6.3.1	Vertical load – Class 2	YES
6.3.2	Static torsion – Class 2	YES
6.3.3	Soft and heavy body impact – Class 2	YES
6.3.4	Hard body impact – Class 2	YES
6.4	Load bearing capacity of safety devices – 350N	N/A
6.5	Resistance to repeated opening and closing – Class 4	YES
BS6375-3 Clause	Description	Compliance
Annex A	Basic security	YES
Annex C	Closure against obstruction	YES

No inferences can be made regarding performance against other requirements of this standard

Tests marked "N/A" are not applicable to the sample under test. Tests marked "N/T" were not applied to the sample under test

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AUTHORISATION

Tests performed by: Chris Bryan, Senior Test Engineer

Josh Ratcliffe, Test Engineer

Report issued by: Chris Bryan, Senior Test Engineer

Signed

Date 10/12/2021

For and on behalf of Element Materials Technology

Report authorised by: Mark Garfield, Door & Window Laboratory Manager

Signed

Date 10/12/2021

For and on behalf of Element Materials Technology

Report issued: 13 December 2021



0621

NOTE.

Tests marked "Not UKAS Accredited" are not covered by the Laboratory UKAS accreditation schedule.

Tests marked NT were not tested

Tests marked NA are not applicable to the product on test.

The laboratory has tested the product supplied by the client as sampled in accordance with their own requirements

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TEST DETAILS

CLIENT DETAILS

Company name

Pacific Rim Wood Ltd

Address

Ground Floor Suite, Block B, Old Kelways, Somerton Road, Langport,

Somerset, TA10 9SJ

Contact Shaun Hannan

ORDER DETAILS

Order number PRW/PAS24/GPM Dated

26/01/2021

SAMPLE DETAILS

Outer frame 955 x 2211 x 110mm Opening leaves 861 x 2116 x 44mm

Configuration Inward-opening single timber doorset

Material Timber

Details of Hardware

4No. NICO Manufacturing LTD NICO security hinge. Ref: 53150R10SEC Hinges Lock Winkhaus GmbH & Co Multipoint lock. Ref: Winkhaus AV2 F2070

Cylinder ERA 35/35 key/thumbturn. Ref: BS-L-T3535-51

Handles Winkhaus GmbH & Co Lever handles with face plates. Ref: Winkhaus Melbourne

1672/2390N - ZA/3816N

TEST DETAILS

BS 6375-2:2009 & BS 6375-3:2009 Test specification

Full test Yes Test to clauses ΑII

Test methods BS EN 12046-2:2000 operating forces

BS EN 947:1999 vertical load BS EN 948:1999 static torsion BS EN 949:1999 soft body impact BS EN 950:1999 hard body impact

BS EN 948:1999 strength of safety devices

BS EN 1191:2012 Annex H repeated opening & closing

BS 6375-3:2009 Annex A basic security

BS 6375-3:2009 Annex C closure against obstruction

Sample received 09/03/2021 Test started 10/03/2021 Test completed 29/03/2021

Special Test requirements Other reports to be used in conjunction with this report

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TEST PROCEDURE

Introduction

This test report should be read in conjunction with the Standard BS 6375-2:2009 Performance of windows and doors – Part 2: Classification for operation and strength characteristics and guidance on selection & specification and Part 3: Classification for additional performance characteristics and guidance on seletion and specification.

The specimens were judged on their ability to comply with the performance criteria as required in BS 6375-2:2009 and BS6375-3:2009, with test methods BS EN 12046-2:2000, BS EN 947:1999, BS EN 948:1999, BS EN 949:1999, BS EN 950:1999, BS EN 1191:2012 Annex H and BS6375-3:2009 Annex A&C. classified in accordance with BS 6375-2:2009, BS EN 12217:2015, BS EN 1192:2000 & BS EN 12400:2002.

Instruction To Test

Initial requirement was for a UK category of use of medium duty as defined in BS6375-2, requiring a performance of Class 2 for operating forces, Class 2 for mechanical strength, a threshold value of 350N for load-bearing capacity of safety devices, and Class 4 for repeated opening and closing.

Test Specimen Construction

A description of the test construction is given in the Schedule of Components. The description is based on a detailed survey of the specimens and information supplied by the sponsor of the test.

Installation

The doorset was supplied mounted within a timber sub-frame of nominal section 75 x 100mm fitted flush with the exterior face, in accordance with the clients fitting instructions.

Sampling

The samples were not independently witnessed or selected and were provided direct from the test sponsor.

Test Climate

The sample was conditioned in the laboratory in the range 15-30 °C and 25-75% humidity.

The temperature and humidity in the lab was maintained in the range 18.3-21.7°C and 34-50.1% humidity for the duration of the test.

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INITIAL OBSERVATIONS

The internal face of the sample



The external face of the sample



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Sample hinge



Sample top lock



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Sample handle



Sample centre dead bolt



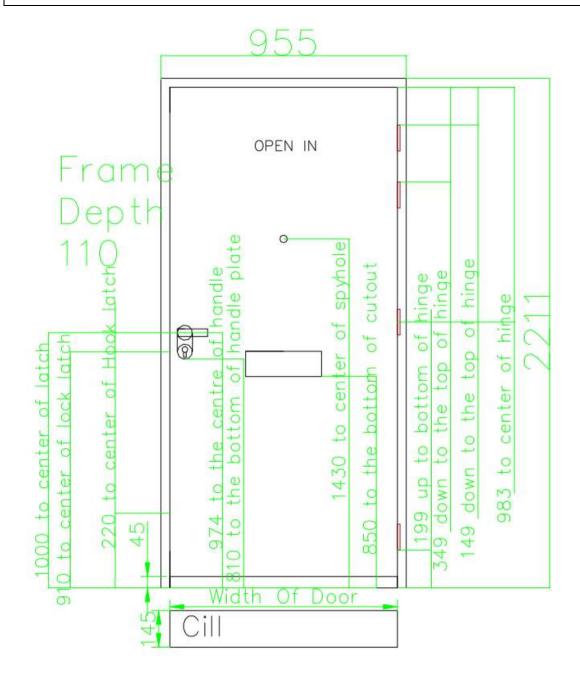
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TEST SPECIMEN

Figure 1- General Elevation of Test Specimen (External Face)



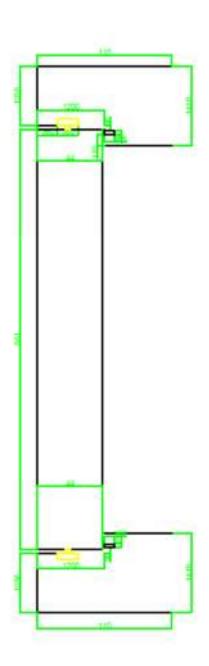
Do not scale. All dimensions are in mm

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Figure 2 - Horizontal section



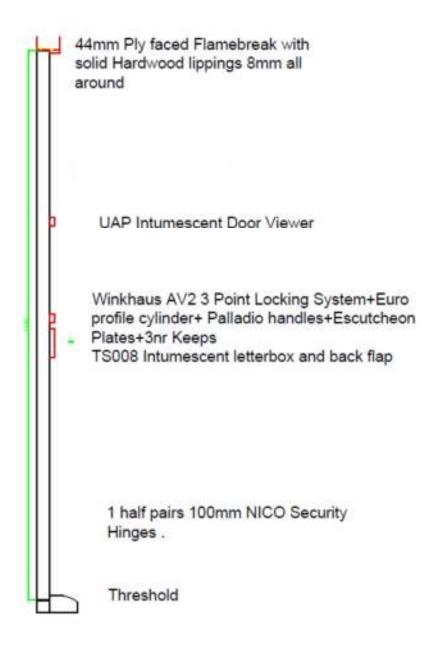
Do not scale. All dimensions are in mm

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Figure 3 - Vertical section



Do not scale. All dimensions are in mm

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SCHEDULE OF COMPONENTS

(Refer to Figures 1 to 3)
(All values are nominal unless stated otherwise)
(All other details are as stated by the sponsor)

Variants

None

<u>Item</u> <u>Description</u>

1. Door frame head

Reference : Custom Material : Sapele

Density : 661.52 kg/m³ (stated)
Section size : 110mm wide x 59mm thick

Rebate : 50mm wide x 15mm deep integral with frame

Fixing jamb to head joints : Rebated butt joint i. type : Wood screws

ii. size : 5.0mm diameter x 100mm long iii. quantity : 6No. / frame (3No. for each joint)

Details of adhesive

i. supplier : Timbond Professional

ii. reference : PVA wood adhesive D3 water resistant

2. Door frame jamb

Reference : Custom Material : Sapele

Density : 661.52 kg/m³ (stated)
Section size : 110mm wide x 59mm thick

Rebate : 50mm wide x 15mm deep integral with frame

3. Door frame sill

Reference : Custom Material : Sapele

Density : 661.52 kg/m³ (stated)
Section size : 145mm wide x 60mm high

Rebate : 50mm wide x 15mm deep integral with frame

Fixing jamb to sill joints : Butt joint : Wood screws

ii. size : 5.0mm diameter x 100mm long iii. quantity : 6No. / frame (3No. for each joint)

Details of adhesive

i. supplier : Timbond Professional

ii. reference : PVA wood adhesive D3 water resistant

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<u>Item</u> <u>Description</u>

4. Door frame weather seals

Description : Aquamac 21 draught strip seal

Manufacturer : Schlegel

Reference

Fixing method : Slot into a pre-cut groove in the rebate

Position : All four rebated edges
Continuity : Uninterrupted by hardware

5. Door frame intumescent/smoke

seals

Description : 15mm wide x 4mm thick intumescent brush strip

Manufacturer : Pyroplex

Reference :

Fixing method : Self adhesive

Position : In both jambs and head of frame; present in the bottom

of the leaf as well

Continuity : Interrupted by hardware. All hardware items have

intumescent pads behind them

6. Door leaf

Supplier/manufacturer : Flamebreak 430 – Pacific Rim Wood Ltd

Overall leaf size

i. active leaf : 861mm wide x 2116mm high x 44mm thick

7. Door leaf internal framing

Material : Mixed Tropical hardwood
Density : Approx. 480 kg/m³ (stated)

Core section size : 3 layer Falcatta core – each layer = 12.3mm thickness

with lamels of width :-

36mm/40mm/42mm/45mm/47mm/54mm/56mm

dependent on raw material availability.

Doorleaf framing section sizes

i. top rail : 36mm thick x 35mm deep – incorporating a 9mm x

9mm tongue

Details of adhesive

i. supplierii. referenceii. Pamolite Adhesive Industriesii. Type 1 Melamine glue

8. Door leaf core

Supplier/manufacturer : Flamebreak 430

Material : Albisia Falcatta – Trilaminate core

Density : 140 - 360 kg/m 3 (stated)

Thickness : 35mm Fixing into rebate : N/A

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ltem **Description**

9. Door leaf facings

Material Nominal 4mm Ply Faced both sides

Density Average 575 kg/m³ (stated)

Nominal 4mm **Thickness**

Details of adhesive

supplier Pamolite Adhesive Industries i.

ii. reference Type 1 Melamine glue

10. Door leaf lippings

Position Fitted to two long edges, top and bottom

Sapele Material

Density Min 640 kg/m3 (Stated) 44mm wide x 8mm thick Section size

Details of adhesive

Adkwick supplier İ. ii. reference Kleibert 707.6

11. Hinges

Supplier/manufacturer NICO Manufacturing LTD Description NICO security hinge Reference 53150R10SEC

Primary material Steel

Size of knuckle 14mm diameter x 107mm high

Size of blades 102mm high x 31mm wide x 3mm thick

4No. hinges / leaf Quantity

Intumescent protection (if applicable) 2No. 1mm thick x 100mm long x 30mm wide radius

> NOR910 Norsound intumescent pad. One applied between the hinge blade and frame and the other one

between the other hinge blade and the leaf

Position of hinges

top hinge 149mm from top of door to top of hinge i. middle hinge 932mm from top of door to top of hinge ii. 1850mm from top of door to top of hinge iii. bottom hinge

second hinge from the top 349mm from top of door to top of hinge İν

Fixing hinge to doorleaf

Wood screw i. type

ii. size 4.5mm diameter x 30mm long

iii. quantity 4No.

Fixing hinge to frame

i. type Wood screw

ii. 4.5mm diameter x 30mm long size

iii. quantity 4No.

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<u>Item</u> <u>Description</u>

12. Lock

Supplier/manufacturer : Winkhaus GmbH & Co

Description : Multipoint lock

Reference : Winkhaus AV2 F2070

Face plate size : 1770mm high x 20mm wide x 3mm thick

Intumescent protection (if applicable) : Interdens 1mm OFFICIAL Winkhaus AV2 kit lock

protection

Position : 974mm from bottom of door to centre of spindle

Fixings

type : Wood screw

size : 3.5mm diameter x 50mm long

quantity : 12no

13. Lock Keeps

Supplier/manufacturer : Winkhaus GmbH & Co

Reference

i. top & bottom keepsii. centre keepii. STVSBFR24Materialii. Stainless steel

Intumescent protection (if applicable) : Interdens 1mm OFFICIAL Winkhaus AV2 kit keep

protection

Overall size

i. top & bottom keeps
ii. centre keep
ii. 175mm high x 24 mm wide x 2 mm thick
iii. centre keep
iii. 234mm high x 24 mm wide x 2 mm thick

Fixing keeps to frame

i. type : Wood screw

ii. size : 3.5mm diameter x 35mm long

iii. quantity : 4No. 3.5mm thread diameter x 35mm long for

top/bottom keep

: 3No. 3.5mm thread diameter x 35mm long for centre

keep

14. Cylinder

Supplier/manufacturer : ERA

Description : 35/35 key/thumbturn

TS007 (if applicable) : Yes

Reference : BS-L-T3535-51

Overall size : 34mm high x 17mm wide x 70mm long euro profile

Fixings

i. type : M5 Machine Screw

ii. quantity : 1 No.

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<u>Item</u> <u>Description</u>

15. Lever handles

Supplier/manufacturer : Winkhaus GmbH & Co

Description : Lever handles with face plates

Reference : Winkhaus Melbourne 1672/2390N – ZA/3816N

TS007 certification ref (if applicable)

Material : Aluminium

Overall size : External face plate: 258mm high x 34mm wide x 15mm

thick x 4mm cylinder incorporated escutcheon

projection

: Internal face plate: 258mm high x 34mm wide x 10mm

thick

Lever length : Handles: 30mm high x 135mm wide x 65mm projection

Fixings

i. type : Steel bolts

ii. size : 5.0mm diameter x 60mm long

iii. quantity : 3No.

16. Door viewer

Supplier/manufacturer : UAP Limited

Description : 14mm Wide angle door viewer

Reference :

Overall size : 14mm Ø with 22 mm Ø to unexposed face, 26 mm Ø to

exposed face

Door hole size : 16.4mm

Intumescent protection (if applicable) : 45mm long x 40mm wide x 1mm thick reinforced

bespoke intumescent jacket rolled and inserted in the

aperture prior to the door viewer being installed

Fixing height (centre of viewer) : 1430mm from bottom of door

17. Letter Plate

Supplier/manufacturer : UAP Limited

Description : Soterian TS008 letterplate

TS008 (if applicable) : Yes

Reference

Aperture size : External size 40 mm high x 259.5 mm wide

Internal size 55 mm high x 259.5 mm wide

Door slot size

Fixing height : 850mm up to bottom of aperture

Cowl : 115mm high x 305mm wide x 6mm thick x 35 mm

projection

Intumescent protection (if applicable) : Bespoke intumescent protection pre-fitted on internal

framing and external face plate

Fixings

i. type : Various screws and bolts provided in the letter plate kit

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PERFORMANCE CRITERIA & TEST RESULTS

Clause	Result	Pass/Fail
BS6375-2 6.2 Operating forces	The average force required to enable the sample to latch must not exceed those defined in table 1 of BS EN 12217, Class 1 (75N) for external doorsets & class 2 (50N) for internal doorsets. The average force or torque required to operate the hardware must not exceed those defined for the relevant class in table 1 on BS EN 12217, Class 1 (100N or 10Nm) for external doorsets & class 2 (50N or 5Nm) for internal doorsets). The average force required to commence and maintain motion must not exceed those defined for the relevant class in table 1 on BS EN 12217, Class 1 (75N) for external doorsets & Class 2 (50N) for internal doorsets	PASS CLASS 2
	The sample met the requirements of Class 2.	
	An average force of 9.37N was required to latch the sample. An average force of 35.47N was required to disengage and 0N was required to engage the hardware.	
	An average torque of 0.12Nm was required to lock and 0.09Nm was required to unlock the doorset.	
	An average force of 10.5N was required to commence and maintain motion.	
BS6375-2 6.3.1 Vertical load	The doorset was tested in accordance with EN 947, a load of 600N was applied as required for Class 2 (medium duty). To achieve the requirements of the class the resultant residual deformation should not exceed 1mm, and the specimen should continue to operate normally.	PASS CLASS 2
	The doorset was tested in accordance with EN 947, under a load of 600N as required by Class 2 of EN 1192, with a preload of 200N. To achieve the requirements of the class the resultant residual deformation should not exceed 1mm, and the specimen should continue to operate normally.	
	A load of 600N was applied, no damage was observed, and the doorset continued to operate normally.	
	The sample met the requirements of Class 2. The deflection under full load was 4.33mm, and the residual deflection was 0.65mm.	
BS6375-2 6.3.2 Static torsion	The doorset was tested in accordance with EN 948, a load of 250N was applied as required for Class 2 (medium duty). To achieve the requirements of the class the resultant residual deformation should not exceed 2mm, and the specimen shall continue to operate normally.	PASS CLASS 2
	The doorset was tested in accordance with EN 948, under a load of 250N as required by Class 2 of EN 1192, with a preload of 200N. To achieve the requirements of the class the resultant residual deformation	

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Clause Result Pass/Fail

should not exceed 2mm, and the specimen should continue to operate normally.

A load of 250N was applied, no damage was observed ,and the doorset continued to operate normally.

The sample met the requirements of Class 2. The deflection under full load was 27.44mm, and the residual deflection was 0.74mm.

BS6375-2 6.3.3 Soft & heavy body impact The doorset was tested in accordance with EN 949, a soft & heavy body impact of 60J was applied as required for Class 2. To achieve the requirements of the class the resultant residual deformation in flatness should not exceed 2mm, and the specimen shall continue to operate normally.

PASS CLASS 2

The doorset was tested in accordance with EN 949, a soft & heavy body impact of 60J was applied as required for class 2. To achieve the requirements of the class the resultant residual deformation in flatness should not exceed 2mm, and the specimen shall continue to operate normally..

The sample met the requirements of class 2, with a residual deformation of 0mm on the internal face, and a residual deformation of 0mm on the external face.

No damage was observed during the test

BS6375-2 6.3.4 Hard body impact The doorleaf was tested in accordance with EN 950, hard body impacts of 3J were applied as required for Class 2. To achieve the requirements of the class the mean value of the diameters of indentation should not exceed 20mm, and the mean values of the depths of indentation should not exceed 1.0mm, with the maximum depth not exceeding 1.5mm.

PASS CLASS 2

The doorleaf was tested in accordance with EN 950, hard body impacts of 3J were applied as required for class 2.

To achieve the requirements of the class the mean value of the diameters of indentation should not exceed 20mm, and the mean values of the depths of indentation should not exceed 1.0mm, with the maximum depth not exceeding 1.5mm.

The sample met the requirements of class 2.

The mean value of the depth of indentation was 0.1mm.

The maximum value of the depth of indentation was 0.15mm.

The mean value of the diameter of indentation was 7.93mm.

No damage was observed during the test.

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Clause	Result	Pass/Fail
BS6375-2 6.4 Load- bearing capacity of safety devices	This test was not carried out as no such device was fitted to the doorset.	N/A
BS6375-2 6.5 Resistance to repeated opening and	Prior to the cyclic operation test, when tested in accordance with EN 12046-2, the sample met the requirements for Class 2.	PASS
	The sample met the requirements of Class 2.	
closing	An average force of 13.1N was required to latch the sample.	
	An average force of 38.93N was required to disengage and N was required to engage the hardware.	
	An average torque of 0.12Nm was required to lock and 0.1Nm was required to unlock the doorset.	
	An average force of 13.9N was required to commence and maintain motion.	
	The number of cycles completed by the doorset was 50,000, as required by Class 4 of the standard, for medium duty. The stroke of the doorleaf was 90 degrees. Observations and measurement were carried out at intervals of 25% of the total cycles. No lubrication or adjustment was specified by the client.	PASS CLASS 4
	The weight of the tested doorleaf was approximately 30 to 31kg, and the dead load applied on the leaf by the operating equipment was 0.65 kg.	
	The sample met the requirements of Class 2.	
	An average force of 13.1N was required to latch the sample. An average force of 38.93N was required to disengage and N was required to engage the hardware.	
	An average torque of 0.12Nm was required to lock and 0.1Nm was required to unlock the doorset. An average force of 13.9N was required to commence and maintain	
	motion.	
	Following the cyclic operation test, when tested in accordance with EN 12046-2, the sample continued to meet the requirements for Class 2.	PASS
	The sample met the requirements of Class 2.	
	An average force of 13.27N (V=1%) was required to latch the sample.	

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Clause	Result	Pass/Fail
	An average torque of 0.11Nm (V=-6)% was required to lock and 0.11Nm (V=10%) was required to unlock the doorset.	
	An average force of 13.7N (V=-1%) was required to commence and maintain motion.	
BS6375-3 Annex A Basic security	Attacks were made with the craft knife to try and remove the material from around the hinge and try to gain access to the hinge fixings. Some of the material was removed, but no further damage was made. Total attack time was 3 minutes. Entry not achieved.	PASS
BS6375-3 Annex C Closure against obstruction	Damage was observed timber around hinge has split under the application of a 200N load with the bottom hinge corner obstructed from closing.	PASS
	The doorset continued to latch and the operating forces met the requirements of Class 1.	
	An average force of 66.77N was required to latch the sample.	
	An average force of 31.97N was required to disengage and 0N was required to engage the hardware.	
	An average torque of 0.09Nm was required to lock and 0.11Nm was required to unlock the doorset.	
	An average force of 28.67N was required to commence and maintain motion.	

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CONCLUSIONS

Evaluation against objective

The sample as provided by the client was subjected to operational & strength testing in accordance with BS 6375-2:2009 and achieved the requirements for a UK category of use of medium duty.

The sample was also subjected to closure against obstruction testing in accordance with BS 6375-3:2009 Annex A & Annex C and achieved the requirements

Observations & comments

LIMITATIONS

Limitations

The results relate only to the behaviour of the specimens of the element of construction under the particular conditions of test. They are not intended to be the sole criteria for assessing the potential performance of the element in use, nor do they reflect the actual behaviour in use.

Range of door assemblies covered by this report

It is our opinion that the range of door assemblies covered by this report are limited to the following

- Assemblies with identical hardware fitted no further apart than in the tested assembly
- Assemblies of the same or smaller overall dimensions to the tested assembly

Uncertainty of Measurement

The uncertainties of measurements calculated for a confidence level of 95% throughout these tests are within the limits of these tolerances.

The standard specifies the following tolerances

■ Forces: ±2%

Distances: ±1mm for tape measures ± 0.01mm for dial gauges

Times: ±5s

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REVISION HISTORY

This issue of the report replaces all previous issues that are now withdrawn.

Issue No :	Re - Issue Date :	
Revised By:	Approved By:	
Reason for Revision:		

END OF REPORT

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