

PAS 24:2016

Annex A&B



Test of: Flamebreak 430 - Single Door - Door Type 1

Enhanced security performance requirements for doorsets

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

Document Reference: WIL 501509-1

Date: 13/12/2021

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TEST CONCLUSIONS

Samples of:

Manufacturer Pacific Rim Wood Ltd

Product Flamebreak

Model Flamebreak 430 – Single Door – Door Tpye 1

have been tested in accordance with: PAS24:2016 Annex A & B

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:

Clause No.	Description	Compliance
4	Enhanced security performance requirements	Yes
4.1.1	Classification of use	Yes
4.1.2	Locking cylinder	Yes
4.2	Infill medium	N/A
4.3	Letterplates	Yes
4.4	Classification	D
5	Marking	No
6	Design and general requirements	No
Annex A	Security hardware and cylinder test and assessment	Yes
A.3	Test procedure	Yes
A.4	Cylinder vulnerability assessment	Yes
Annex B	Enhanced security performance for doorsets	Yes
B.4.3	Manipulation test	Yes
B.4.4.2	Infill manual test	N/A
B.4.4.3	Infill mechanical test	N/A
B.4.4.4	Manual cutting test	Yes
B.4.5	Mechanical loading test	Yes
B.4.6	Manual check test	Yes
B.4.7	Additional mechanical loading test	N/A
B.4.8	Soft body impact test	Yes
B.4.9	Hard body impact test	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: Brett Devey, Test Engineer

Sam Laxton, Trainee 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.

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 Address

Pacific Rim Wood Ltd Ground Floor Suite,

Block B, Old Kelways, Somerton Road,

Langport, Somerset, **TA10 9SJ**

Contact Shaun Hannan

ORDER DETAILS

PRW/PAS24/GPM Order number

Dated 26/01/2021

SAMPLE DETAILS

Outer frame 1025 x 2246 x 110 mm Opening leaves 931 x 2151 x 44mm

Configuration Inward-opening single timber doorset

Material Timber

Details of Hardware

Hinges 4No. NICO Manufacturing LTD NICO Security Hinge Ref: 53150R10SEC

Winkhaus GmbH & Co Multipoint lock. Ref: Winkhaus AV2 F2070 Lock

Cylinder ERA 35/35 Key/Thumbturn. Ref: BS-L-T3535-51

Winkhaus GmbH & Co Lever Handles With Face Plates Ref: Winkhaus Handles

Melbourne 1672/2390N - ZA/3816N

TEST DETAILS

Test specification PAS 24:2016

Full test Yes

Test to clauses Annex A&B

Sample received 08/03/2021 Test started 10/03/2021 Test completed 10/03/2021

Special Test

requirements

Other reports to be used in conjunction

None

No

with this report

Test rig used Testing carried out in PAS24 test rig reference OLD

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TEST PROCEDURE

Introduction This test report should be read in conjunction with the Standard PAS 24:2016

Enhanced security performance requirements for doorsets and windows in the UK.

The specimens were judged on their ability to comply with the performance criteria

as required in PAS24:2016 Annex A & B.

Instruction To Test

Initial requirement was for a classification of D for doorsets.

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 for at least 12 hours.

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

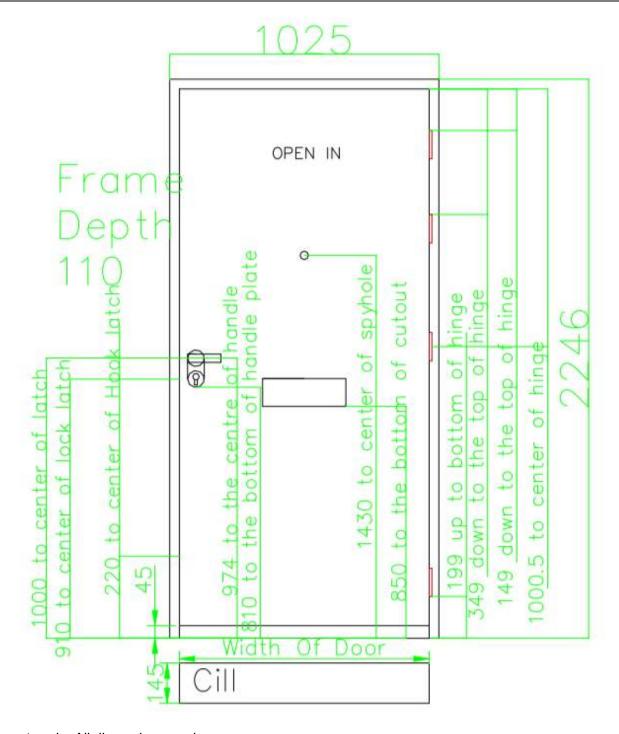


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TEST SPECIMEN

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



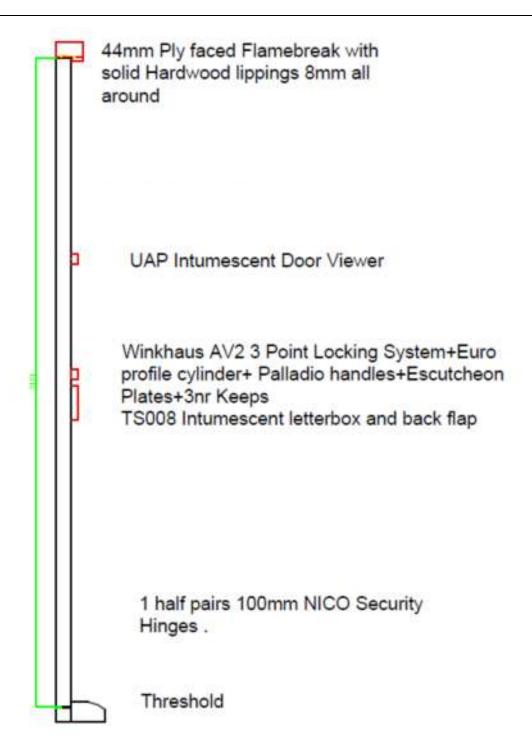
Do not scale. All dimensions are in mm

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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

The schedule of components is based on a survey of the specimens and information supplied by the client.

Variants

None

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

1. Door frame head

Reference : Custom Material : Sapele

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

Rebate : 50 mm wide x 15 mm 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 : 110 mm wide x 59 mm thick

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

3. Door frame sill

Reference : Custom Material : Sapele

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

Rebate : 50 mm wide x 15 mm 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 : 931 x 2151 x 44mm

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. stile : 36mm thick x 35mm deep – incorporating a 9mm x

9mm tongue

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

9mm tongue

iii. bottom rail : 36mm thick x 35mm deep – incorporating a 9mm x

9mm tongue

Details of adhesive

i. supplier : Pamolite Adhesive Industries

ii. reference : Type 1 Melamine glue

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

8. Door leaf core

Supplier/manufacturer : Flamebreak 430

Material : Albisia Falcatta – Trilaminate core

Density : $140 - 360 \text{ kg/m}^3 \text{ (stated)}$

Thickness : 35mm Fixing into rebate : N/A

9. Door leaf facings

Material : Nominal 4mm Ply Faced both sides

Density : Average 575 kg/m³ (stated)

Thickness : Nominal 4mm

Details of adhesive

i. supplier : Pamolite Adhesive Industries

ii. reference : Type 1 Melamine glue

10. Door leaf lippings

Position : Fitted to two long edges, top and bottom

Material : Sapele

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

Details of adhesive

i. supplier : Adkwick

ii. reference : Kleiberit 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

Quantity : 4no hinges / leaf

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

i. top hinge
 ii. middle hinge
 iii. bottom hinge
 iv second hinge from the top
 ii. 149mm from top of door to top of hinge
 ii. 954.5mm from top of door to top of hinge
 iii. 149mm from top of door to top of hinge
 iii. 349mm from top of door to top of hinge
 iii. 349mm from top of door to top of hinge

Fixing hinge to doorleaf

ii. type : Wood screw

iii. size : 4.5mm diameter x 30mm long

iv. quantity : 4no

Fixing hinge to frame

i. type : Wood screw

ii. size : 4.5mm diameter x 30mm long

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

i. type : Wood screw

ii. size : 3.5mm diameter x 50mm long

iii. 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
 iii. 175mm high x 24 mm wide x 2 mm thick
 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 : 34 mm high x 17 mm wide x 70 mm 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: 258 mm high x 34 mm wide x 15

mm thick x 4 mm cylinder incorporated escutcheon

projection

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

mm 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 : 14 mm \emptyset with 22 mm \emptyset to unexposed face, 26 mm \emptyset

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 : 115 mm high x 305 mm wide x 6 mm 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	Requirement	Results & Observations	Compliance
4.1.1 Classification of use	Doorsets shall be classified according to their intended use for all relevant characteristics in accordance	Evidence supplied	Yes
		WIL 501507 – BS 6375-1	
	with BS 6375 and the relevant material specific standard.	WIL 501508 – BS 6375-2	
4.1.2 Doorsets	Doorsets must meet the requirements of Annex A of PAS24:2016 and either Annex	Doorset meets the requirements of Annex A of PAS24.	Yes
	B of PAS24:2016 or RC3 of BS EN 1627	Doorset meets the requirements of Annex B of PAS24.	
	Cylinders falling within the scope of EN1303:2015 used in the tested door assembly shall meet the requirements of TS007 (3* cylinder or a cylinder and security hardware combined rating of 3*) or of key related security to grade 5 and resistance to drilling grade 2.	Evidence provided. KM 553031	Yes
4.2 Infill medium requirements	Each glazed area shall include at least one pane of laminated glass meeting the requirements of BS EN 356:2000 Class P1A.	No glazed infill present, not applicable.	N/A
4.3 Letterplates	Letter plates shall have a maximum aperture size of 260 x 40mm	Aperture size 258 x 40mm.	Yes
	Letter plates shall meet the installation height requirements of BS EN 13724:2013 clause 5.3.1 (between 700 and 1700mm from the floor)	Installation height 880mm from floor.	Yes
	Letterplate shall meet the requirements of TS008:2015 enhanced security grade 2	Evidence provided. KM 670828	Yes

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Clause	Requirement	Results & Observations	Compliance
4.4 Classification	Following testing to Annex A & Annex B the final classification shall be determined as D for a doorset.	Doorset classified as D for doorsets	D CLASSIFIED
5 Marking	Door assembly shall be permanently marked, in a position that is visible and accessible when the door is open, with the following information:	Performance not assessed. Further evidence required.	No
	The number and date of the specification and the classification, i.e. PAS24:2016 D		
	The date of manufacture (at least year and quarter)		
	 The name or trade mark or other means of identifying the manufacturer 		
6.1 Doorsets	Where a doorset includes dummy vents, fixed lights, fixed panels and/or opening lights these shall meet the requirements for a doorset	Performance not assessed. Further evidence required.	No
6.2 Installation instructions	The manufacturer shall supply full instructions for assembly, installation and maintenance	Performance not assessed. Further evidence required.	No

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Clause	Requirement	Results & Observations	Pass / Fail
A.3 Security hardware and cylinder test	Attacks were made with the craft knife to pull away the material surrounding the handle, once there was enough space for the nor bar it was used with the hooked headed attachment to try and pull the handle from the leaf but after 3 minutes of attacking entry was not gained.		PASS
	to try and penetrate the cylinder	ction screws and cross point screwdriver, once the screw latched the nor bar was attachment to try and pull it from the leaf entry was not gained.	PASS

Damage to the sample following A.3 security hardware and cylinder test



A.4 Cylinder vulnerability assessment Additionally cylinders shall have been successfully assessed in accordance with the requirements of Annex A.4 of PAS24:2016 cylinder vulnerability assessment.

Evidence provided. KM 553031

Yes

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Clause	Requirement	Results & Observations	Pass / Fail	
Annex B: Enhanced security performance requirements for doorsets				
B.4.3 Manipulation test	Manipulation expose the bottom hook bolt, this is to try and allow for further attacks		Pass	
		vere made with the 2 paint scrapers to try skeep, to allow the doorset to be opened g entry was not gained.		
		de to the 3rd hinge to try and expose the nove the hinge from the leaf but after 3 s not gained.		
		ade with the 2 paint scrapers to try and ne hinge but after 3 minutes of attacking		
B.4.4.2 Manual test on infill	No infill present, not applicabl	e.	N/A	
B.4.4.3 Mechanical test on infill	No infill present, not applicabl	e.	N/A	
B.4.4.4 Manual cutting test	create a big enough hole for th	with the craft knife & 6mm chisel to try and e zone 1 fail criteria to pass through freely, ng the hole was not big enough and entry	Pass	
	the zone 2 fail criteria, this was	with the craft knife to score the outline for s then attacked with the 6mm chisel to pull but after 3 minutes of attacking entry was	Pass	

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Clause

Requirement

Results & Observations

Pass / Fail

Damage to the sample following B.4.4.4 Manual cutting test



B.4.5 Mechanical loading test

Attempts to apply Mechanical loads to all the hinge points and locking points were made with the following results obtained.

Pass

Point 1: Top hinge

1.5kN parallel (horizontal) and 4.5kN perpendicular load held for 10s.

Point 2: Middle hinge

1.5kN parallel (horizontal) and 4.5kN perpendicular load held for 10s.

Point 3: Bottom hinge

1.5kN parallel (horizontal) and 4.5kN perpendicular load held for 10s.

Point 4: Bottom hook bolt

1.5kN parallel (up) and 4.5kN perpendicular load held for 10s.

1.5kN parallel (horizontal) and 4.5kN perpendicular load held for 10s.

Point 5: Centre dead bolt

1.5kN parallel (horizontal) and 4.5kN perpendicular load held for 10s.

Point 6: Top hook bolt

1.5kN parallel (up) and 4.5kN perpendicular load held for 10s.

1.5kN parallel (horizontal) and 4.5kN perpendicular load held for 10s.

All loads were held and no entry was achieved.

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Clause	Requirement	Results & Observations	Pass / Fail
B.4.6 Manual check test	Between 2 nd & 3 rd Hinge – Attacks were made with the nail bar and large screwdriver to try and separate the space between the frame and leaf, this is to try and twist the leaf out of position but after 3 minutes of attacking entry was not gained.		NO VULNER- ABILITY IDENTIFIED
	bar and large screwdriver to try	n Lock – Attacks were made with the nail and lift the hook bolt out of its keep, this ocking system but after 3 minutes of	
	and large screwdriver to try and	s – Attacks were made with the nail bar I separate the frame and leaf to pull the e keeps but after 3 minutes of attacking	
	large screwdriver to try and sep	tacks were made with the nail bar and arate the leaf and frame to twist the door e door to be easily manipulated but after s not gained.	
B.4.7 Additional mechanical loading test	Testing was not required as r manual check test.	no vulnerabilities were identified in the	NOT REQUIRED
B.4.8 Soft body impact test		dy impacts to points 800mm above floor el, and 1700mm above floor level in the	Pass
	No visible damage was cause gained.	d by these impacts and no entry was	

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Clause	Requirement	Results & Observations	Pass / Fail
B.4.9 Hard body impact test		pacts to all the corners of the door leaf, s were made with the following results	Pass
	Point 1: Top hinged edge core 3 impacts applied, entry not ach		
	Point 2: Top hinge 3 impacts applied, entry not ach	ileved.	
	Point 3: Centre hinge 3 impacts applied, entry not ach	ileved.	
	Point 4: Bottom hinge 3 impacts applied, entry not ach	ieved.	
	Point 5: Bottom hinged edge 3 impacts applied, entry not ach		
	Point 6: Bottom locking edge 3 impacts applied, entry not ach		
	Point 7: Bottom hook bolt 3 impacts applied, entry not ach	ieved.	
	Point 8: Locking cylinder 3 impacts applied, entry not ach	ieved.	
	Point 9: Centre dead bolt 3 impacts applied, entry not ach	ieved.	
	Point 10: Top hook bolt 3 impacts applied, entry not ach	ieved.	
	Point 11: Top locking edge co 3 impacts applied, entry not ach		
	No visible damage was caused b	y these impacts and no entry was gained.	

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CONCLUSIONS

Evaluation against objective

The doorsets as provided by the client were subjected to enhanced security testing in accordance with PAS24:2016 Annex A&B and achieved the requirements for a classification of D for doorsets.

Observations & comments

The self-gripping pliers used during the security hardware test were Irwin Vise Grip 10R (straight jaw) and 10WR (curved jaw)

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.

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

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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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