

PAS 24:2016

Annex A&B



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

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 501512-1

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: 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

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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



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 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

Hinges 4No. NICO Manufacturing LTD NICO security hinge. Ref: 53150R10SEC 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

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 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

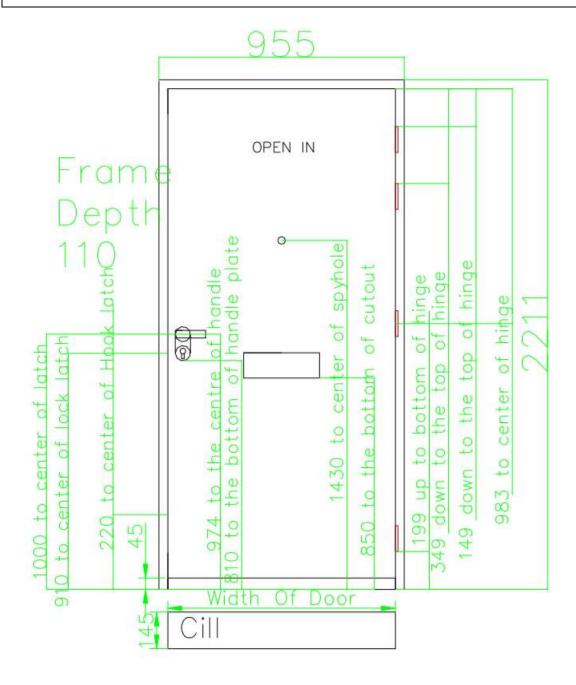


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TEST SPECIMEN

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



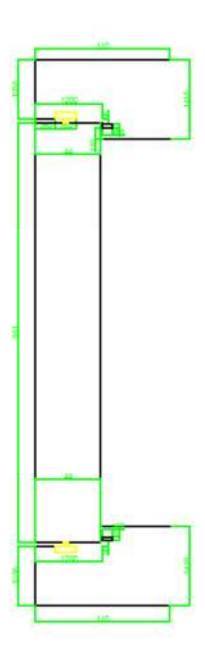
Do not scale. All dimensions are in mm

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Figure 2 – Horizontal section



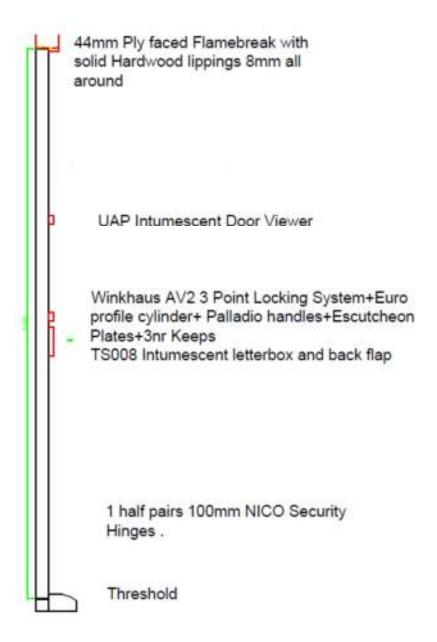
Do not scale. All dimensions are in mm

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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) (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. supplier : Pamolite Adhesive Industries

ii. reference : Type 1 Melamine glue

8. Door leaf core

Supplier/manufacturer : Flamebreak 430

Material : Albisia Falcatta – Trilaminate core

Density : 140 - 360 kg/m3 (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

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

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

Details of adhesive

i. supplier : Adkwickii. 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

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 : 149mm from top of door to top of hinge ii. middle hinge : 932mm from top of door to top of hinge iii. bottom hinge : 1850mm from top of door to top of hinge : 240mm from top of door to top of hinge

iv second hinge from the top : 349mm from top of door to top of hinge

Fixing hinge to doorleaf

i. type : Wood screw

ii. size : 4.5mm diameter x 30mm long

iii. quantity : 4No.

Fixing hinge to frame

1. type : Wood screw

2. size : 4.5mm diameter x 30mm long

3. 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. 234mm high x 24 mm wide x 2 mm thick

Fixing keeps to frame

i. typeii. sizeii. Wood screwii. 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

Fixings

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

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	Evidence supplied	Yes
	according to their intended use for all relevant characteristics in accordance	WIL 501510 – BS 6375-1	
	with BS 6375 and the relevant material specific standard.	WIL 501511 – BS 6375-2	
4.1.2 Doorsets	Doorsets must meet the requirements of Annex A of PAS24:2016 and either Annex B of PAS24:2016 or RC3 of BS EN 1627	Doorset meets the requirements of Annex A of PAS24.	Yes
		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** Attacks were made to the material surrounding the handle using a craft **Pass** Security knife and 6mm chisel to try and cut out the material and a created a hardware and leverage point. Once a space had been created, a NorBar was used to cylinder test lever the handle away from the leaf but with no success. Total attack time was 3 minutes. Entry not achieved. Attacks were made to the cylinder using 2No. 3.5 x 35mm traction **Pass** screws and a cross point screwdriver to screw through the centre of the cylinder, in an attempt to create a leverage point. The screws could not be fully inserted and time expired before alternative attacks could be attempted. Total attack time was 3 minutes. Entry not achieved.

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 / Fai
Annex B: Enhand	ced security performan	ce requirements for doorsets	
B.4.3 Manipulation test	Attacks were made to the bottom hook bolt using a craft knife to cut out the surrounding material, in an attempt to expose the lock and allow it to be manipulated but with no success. Total attack time was 3 minutes. Entry not achieved.		Pass
	lever between the leaf	the bottom hook bolt using 2 paint scrapers to and frame, in an attempt to lever out the lock but attack time was 3 minutes. Entry not achieved.	
	surrounding material, in	the 3rd hinge using a craft knife to cut out the n an attempt to expose the hinge and allow it to th no success. Total attack time was 3 minutes.	
	between the leaf and fr	the 3rd hinge using 2 paint scrapers to lever ame, in an attempt to lever out the hinge but with k time was 3 minutes. Entry not achieved.	
B.4.4.2 Manual test on infill	No infill present, not ap	plicable.	N/A
B.4.4.3 Mechanical test on infill	No infill present, not ap	plicable.	N/A
B.4.4.4	Zone 1		Pass
Manual cutting test	leaf using a craft knife, leaf and try to create a l	thin 400mm of the centre of rotation of the door 6mm chisel, and 25mm chisel to cut through the nole big enough for the failure criteria. A hole was not be gained. Total attack time was 3 minutes.	
	Zone 2		Pass
	leaf using a craft knife, leaf and try to create a l	low 400mm of the centre of rotation of the door 6mm chisel, and 25mm chisel to cut through the nole big enough for the failure criteria. A hole was not be gained. Total attack time was 3 minutes.	

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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	Attacks were made between the 2nd and 3rd hinges using a nail bar and screwdriver to lever between the leaf and frame, in an attempt to lever out the hinges but with no success. Total attack time was 3 minutes. Entry not achieved.		NO VULNER- ABILITY IDENTIFIED
	nail bar and screwdriver to le	he bottom hinge and bottom lock using a ever between the leaf and frame, in an ut with no success. Total attack time was	
	and screwdriver to lever betw	ne bottom and centre lock using a nail bar reen the leaf and frame, in an attempt to success. Total attack time was 3 minutes.	
	screwdriver to lever between	the top 2 hinges using a nail bar and the leaf and frame, in an attempt to lever access. Total attack time was 3 minutes.	
B.4.7 Additional mechanical loading test	Testing was not required as manual check test.	no vulnerabilities were identified in the	NOT REQUIRED
B.4.8 Soft body impact test		ody impacts to points 800mm above floor vel, and 1700mm above floor level in the	Pass
	No visible damage was caus gained.	sed by these impacts and no entry was	
B.4.9 Hard body impact test		mpacts to all the corners of the door leaf, its were made with the following results	Pass
	Point 1: Top hinged edge co 3 impacts applied, entry not ac		
	Point 2: Top hinge 3 impacts applied, entry not ac	chieved.	
	Point 3: Centre hinge 3 impacts applied, entry not ac	chieved.	
	Point 4: Bottom hinge 3 impacts applied, entry not ac	chieved.	

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Clause Requirement Results & Observations Pass / Fail

Point 5: Bottom hinged edge corner 3 impacts applied, entry not achieved.

Point 6: Bottom locking edge corner 3 impacts applied, entry not achieved.

Point 7: Bottom hook bolt 3 impacts applied, entry not achieved.

Point 8: Locking cylinder 3 impacts applied, entry not achieved.

Point 9: Centre dead bolt 3 impacts applied, entry not achieved.

Point 10: Top hook bolt 3 impacts applied, entry not achieved.

Point 11: Top locking edge corner 3 impacts applied, entry not achieved.

No visible damage was caused by 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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