Test Report

The smoke control performance of two timber, single acting single door assemblies when tested in accordance with BS EN 1634-3:2004

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Change History

Issue Date	Revision	Created by	Authorised by	Description of Change
20/11/2026	B	JW	TS	3. Test Specimen Drawings (Pages 13 - 19) - Figures 1, 2, 3, 4, 5, 7 replaced with new drawings 4. Technical Schedule (Pages 21 – 40) - Sections 1, 2, 3, 6, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 and 39 updated
16/08/2026	A	AB	RG	Initial Issue

Signatories

	
Prepared by **Aditi Bapte*** Technical Officer	Authorised by **Robert Grant*** Senior Technical Officer

*For and on behalf of United Kingdom Testing and Certification.

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1 Executive Summary

1.1 Specimen Summary

The Specimen had overall nominal dimensions of 2560 mm wide by 2770 mm high, incorporating two doors, a sidelight and two fanlights.

Leaf A had overall frame dimensions of 888 mm wide by 2333 mm high. Leaf A Incorporated a door leaf of overall size 822 mm wide by 2282 mm. The door leaf was formed from a lamel core, and had plywood facings, 8 mm thick hardwood lippings to all four edges. The door leaf was hung in a softwood frame on three steel hinges and incorporated two vision panels of overall bead size 280 mm wide by 874 mm high each.

Leaf B had overall frame dimensions of 1111 mm wide by 2333 mm high. The specimen incorporated a door leaf of overall size 1045 mm wide by 2282 mm. The door leaf was formed from a lamel core, and had plywood facings, 8 mm thick hardwood lippings to all four edges. The door leaf was hung in a softwood frame each on three steel hinges and incorporated two vision panels of overall bead size 855 mm wide by 358 mm high each.

The specimen also Incorporated a sidelight with overall frame size 561 mm wide by 2333 mm high, between leaf A and leaf B, and two fanlights with overall frame size 888 mm wide by 437 mm high above leaf A and 1672 mm wide by 437 mm high above leaf B.

1.2 Specimen Verification

United Kingdom Testing and Certification carried out a comprehensive survey to verify the information provided by the Test Sponsor. This included verifying the materials, dimensions, and manufacturing methodologies of the test specimens, wherever possible. Refer to page 21 for full details of this survey.

1.3 Specimen Installation and Fixity

The Specimen was installed into test construction by The Test Sponsor. The specimen was installed such that the door leaf opened away from the chamber at the request of the Test Sponsor. The specimen was latched but unbolted prior to the commencement of the test at the request of the test sponsor.

1.4 Specimen Conditioning

The specimen's storage, construction, and test preparation took place in the test laboratory over a total, combined time of two days. Throughout this period, both the temperature and the humidity of the laboratory were measured and recorded as being within a range of from 14.3 °C to 14.8 °C and 76.9 % to 77.2 % respectively.

1.5 Instruction to Test

The test was conducted on 16 September 2025 at the request of the Test Sponsor. The test was witnessed by Neil Harrison, a representative of the Test Sponsor.

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1.6 Sampling

United Kingdom Testing and Certification was not involved in the sampling or selection of the tested specimen or any of the components. A representative of **BM Trada** sampled the following components of the tested specimen:

Component	Sampling date	Sampling report reference
Doorsets (including fanlights and sidelight)	10/09/2025	SC25220T
Door Blanks	07/11/2023	SC23262B
Hinges	15/04/2024	AO-106117

Refer to test sponsor for the copies of the sampling reports.

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1.7 Expression of Results

Test 1 - Door B Untaped, Door A Taped Sidelight & Fanlights Taped

Test #	Threshold	Face Exposed to Pressure	Latching Condition	Temperature (°C)	Total Leakage Rate $Q_{spec}^{(20)}$ (m^3/h) at		Linear Leakage Rate Q_l ($m^3/h/m$)	
					10 Pa	25 Pa	10 Pa	25 Pa
1	Untaped	Side A (Positive Pressure)	Latched	Ambient	3.75	7.81	0.67	1.39
2	Untaped	Side B (Negative Pressure)	Latched	Ambient	4.67	7.51	0.83	1.34

Test 2 - Door B & Sidelight Untaped, Door A Taped & Fanlights Taped

Test #	Threshold	Face Exposed to Pressure	Latching Condition	Temperature (°C)	Total Leakage Rate $Q_{spec}^{(20)}$ (m^3/h) at		Linear Leakage Rate Q_l ($m^3/h/m$)	
					10 Pa	25 Pa	10 Pa	25 Pa
1	Untaped	Side A (Positive Pressure)	Latched	Ambient	5.76	11.46	1.03	2.05
2	Untaped	Side B (Negative Pressure)	Latched	Ambient	5.59	11.22	1.00	2.00

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Test 3 - Door B, Sidelight & Fanlight 2 Untaped, Door A & Fanlight 1 Taped

Test #	Threshold	Face Exposed to Pressure	Latching Condition	Temperature (°C)	Total Leakage Rate $Q_{spec}^{(20)}$ (m^3/h) at		Linear Leakage Rate Q_l ($m^3/h/m$)	
					10 Pa	25 Pa	10 Pa	25 Pa
1	Untaped	Side A (Positive Pressure)	Latched	Ambient	7.13	13.01	1.27	2.32
2	Untaped	Side B (Negative Pressure)	Latched	Ambient	6.77	13.66	1.21	2.44

Test 4 - Door A, Door B, Sidelight & Fanlights Untaped

Test #	Threshold	Face Exposed to Pressure	Latching Condition	Temperature (°C)	Total Leakage Rate $Q_{spec}^{(20)}$ (m^3/h) at		Linear Leakage Rate Q_l ($m^3/h/m$)	
					10 Pa	25 Pa	10 Pa	25 Pa
1	Untaped	Side A (Positive Pressure)	Latched	Ambient	11.01	22.55	0.99	2.03
2	Untaped	Side B (Negative Pressure)	Latched	Ambient	11.51	23.78	1.04	2.14

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2 Pre-test Examination

2.1 Operability Test

Door A1 was opened from fully closed to at least 90° and back again 25 times prior to the commencement of the test in accordance with BS EN 16034:2014 § A.2.2.

Door A2 was opened from fully closed to at least 90° and back again 25 times prior to the commencement of the test in accordance with BS EN 16034:2014 § A.2.2.

2.2 Length of Gap

The length of gap was measured prior to the commencement of the test. The results are presented below:

Threshold	measurement (m)
Untaped (Door B)	5.6
Untaped (Door A & B combined)	11.11

2.3 Closing Force Measurement

The door closing forces were measured and recorded three times. The results are presented below:

Measurement	Maximum Recorded Force (N)	Distance from Pivot to Measurement Location (m)	Moment (Nm)
Closing Force Specimen A	16.0	0.750	12
Opening Force Specimen A	40.8	0.750	30.6
Closing Force Specimen B	12.6	0.750	9.45
Opening Force Specimen B	49.0	0.750	36.75

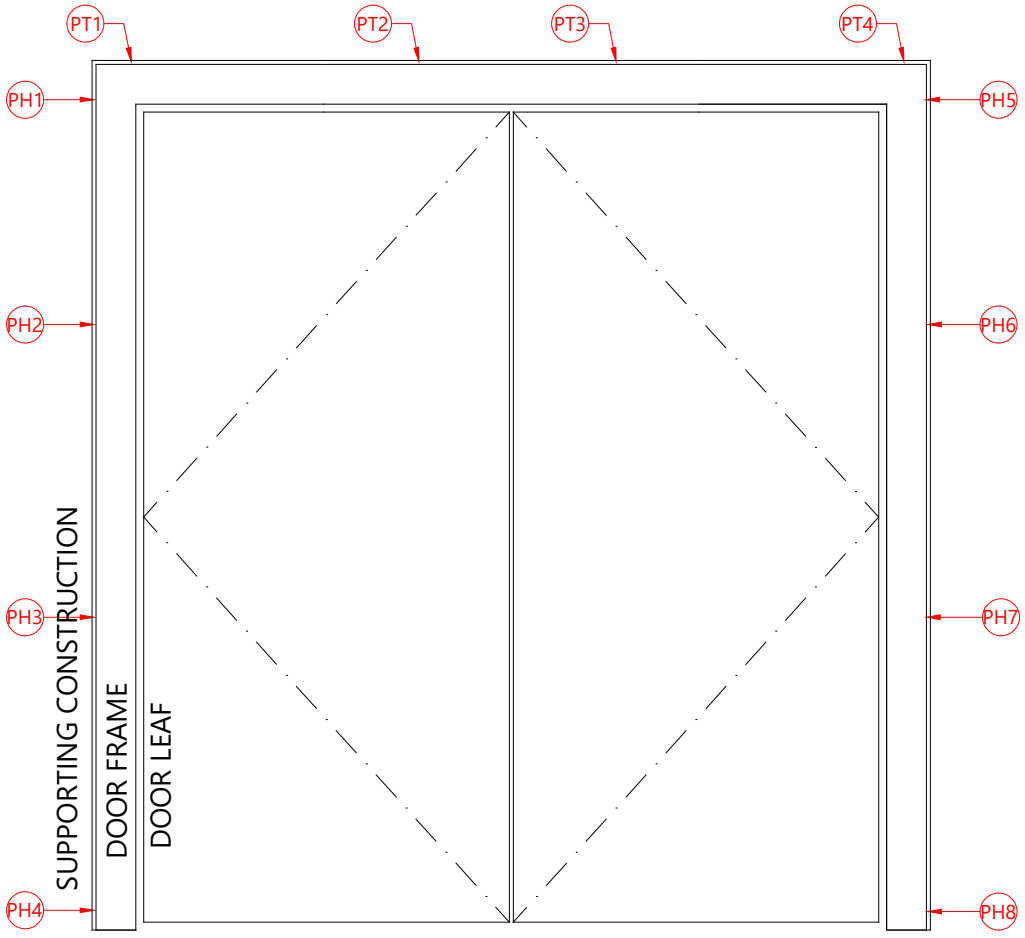
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2.4 Gap Measurements

All measurements are in millimeters (mm) unless stated otherwise, include structural opening perimeter gaps.

2.4.1 Structural Perimeter gaps

The gaps between the perimeter of the frame and the supporting construction were measured prior to the commencement of the test. This was measured from the annotated locations in the figure below. The measurements were taken from the Primary face.

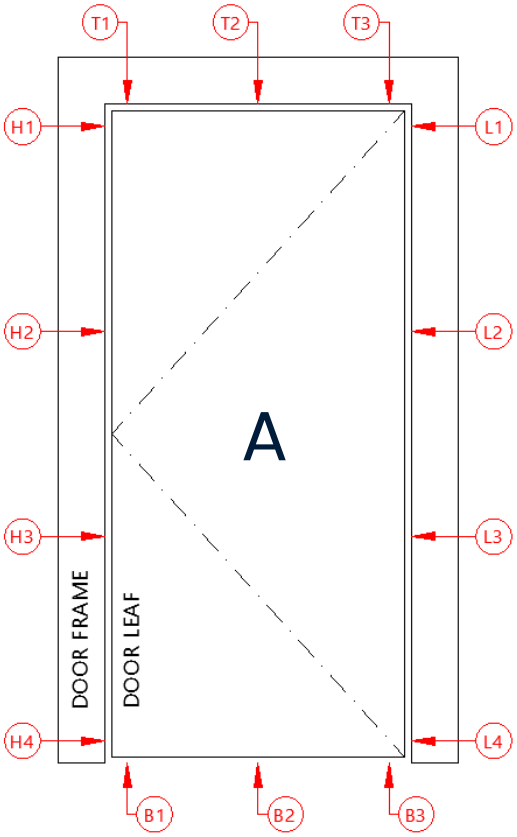


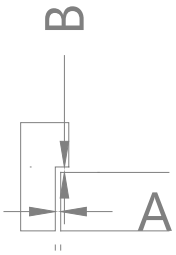
Perimeter Gaps							
PH1	31.7		PL1	16.4		PT1	27.0
PH2	31.7		PL2	20.2		PT2	23.2
PH3	31.4		PL3	15.8		PT3	25.7
PH4	31.8		PL4	14.6			

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2.4.2 Doorset Perimeter gaps

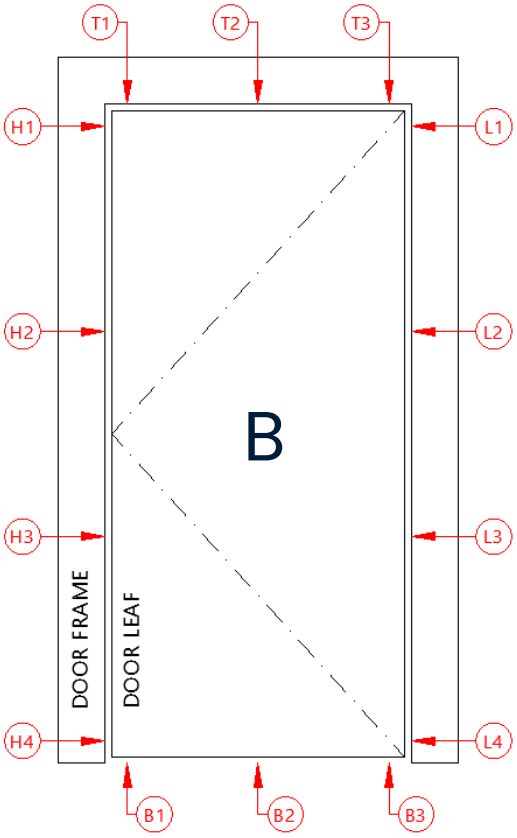
The gaps between the perimeter of the door leaf and the frame were measured prior to the commencement of the test.

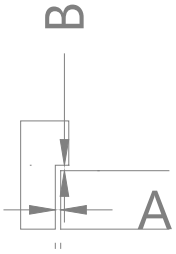




Hanging Stile	A	B	Closing Stile	A	B
H1	2.1	0.8	L1	4.0	0.8
H2	2.4	0.8	L2	4.5	0.8
H3	1.7	0.8	L3	3.9	0.8
H4	2.2	0.8	L4	4.1	0.8
Mean	2.1		Mean	4.1	
Max	2.4		Max	4.5	
Min	1.7		Min	3.9	
Max Permitted	4.3		Max Permitted	6.3	
Top Edge	**A**	**B**	**Bottom Edge**	**A**	
T1	3.0	0.8	B1	6.3	
T2	2.7	0.8	B2	4.8	
T3	2.9	0.8	B3	4.3	
Mean	2.9		Mean	5.1	
Max	3.0		Max	6.3	
Min	2.7		Min	4.3	
Max Permitted	4.9		Max Permitted	7.7	

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Hanging Stile	A	B	Closing Stile	A	B
H1	3.1	0.7	L1	2.4	0.7
H2	2.9	0.7	L2	2.9	0.7
H3	3.2	0.7	L3	3.6	0.7
H4	2.3	0.7	L4	4.0	0.7
Mean	2.9		Mean	3.2	
Max	3.2		Max	4.0	
Min	2.3		Min	2.4	
Max Permitted	5.0		Max Permitted	5.6	
Top Edge	**A**	**B**	**Bottom Edge**	**A**	
T1	3.1	0.7	B1	2.9	
T2	3.0	0.7	B2	2.2	
T3	3.9	0.7	B3	2.5	
Mean	3.4		Mean	2.5	
Max	3.9		Max	2.9	
Min	3.0		Min	2.2	
Max Permitted	5.7		Max Permitted	4.7	

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3 Test Specimen Drawings

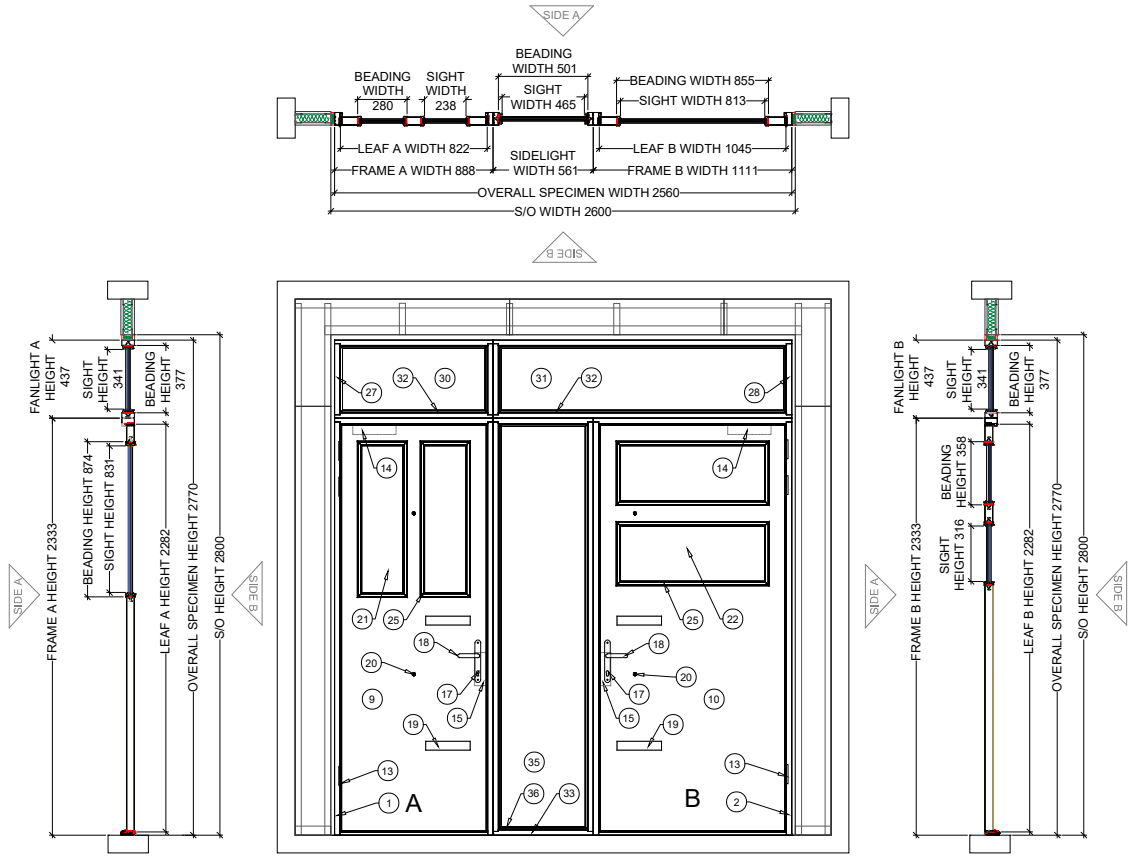


Figure 1 - General arrangement of test construction viewed from the unexposed surface (Leaf sections)

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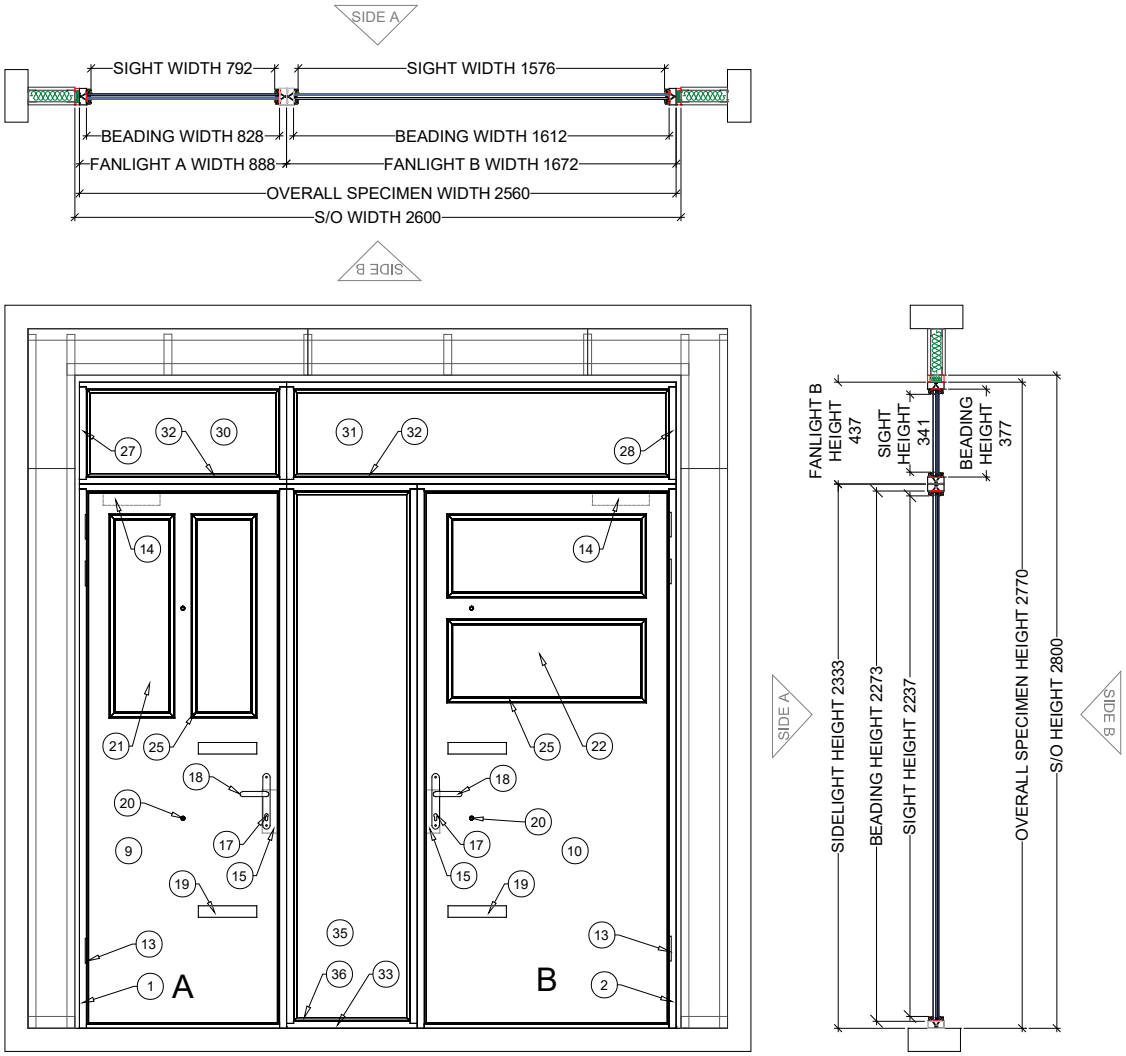


Figure 2 - General arrangement of test construction viewed from the unexposed surface (Sidelight & Fanlight sections)

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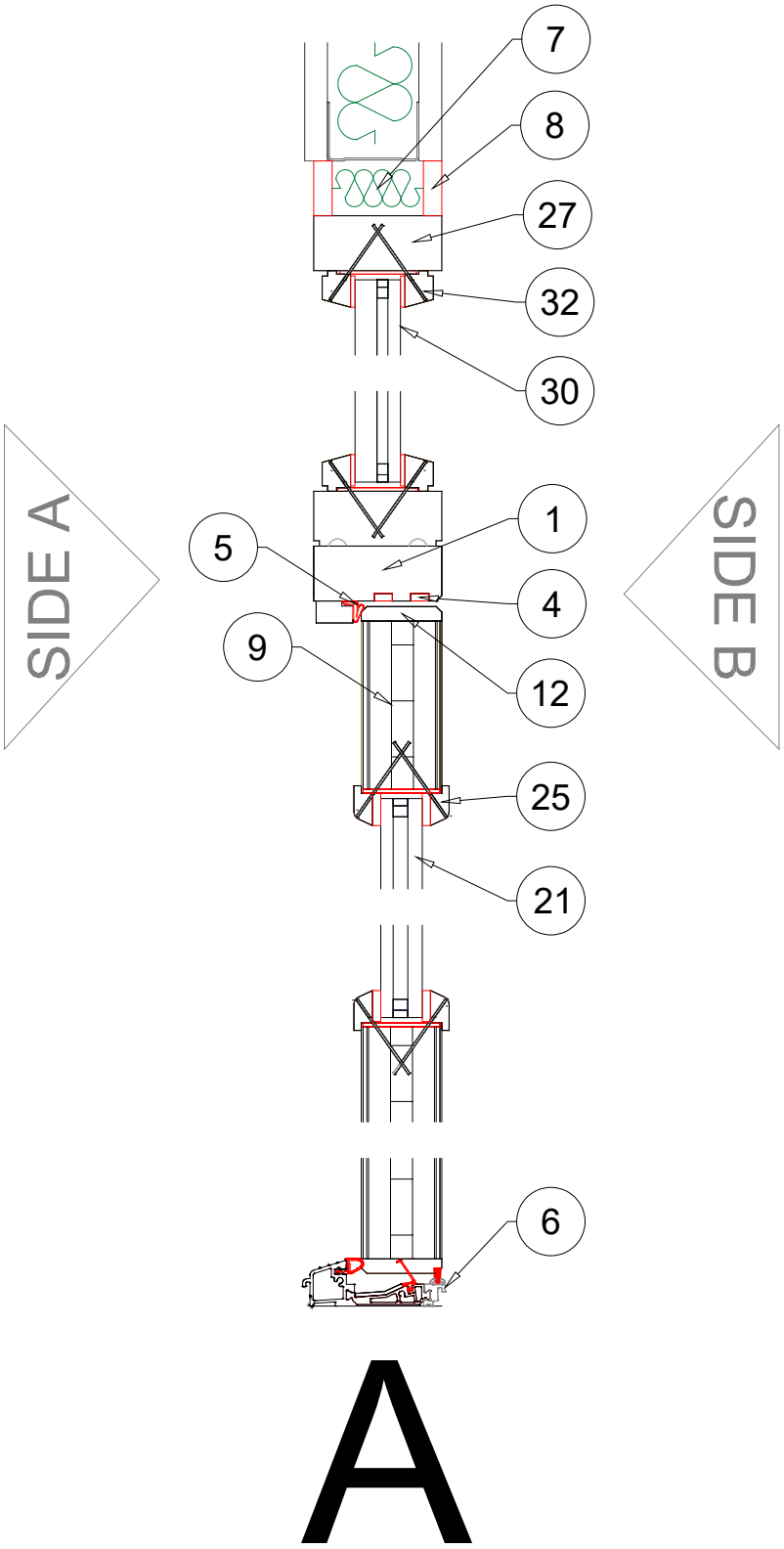


Figure 3 - Typical vertical section through Leaf A

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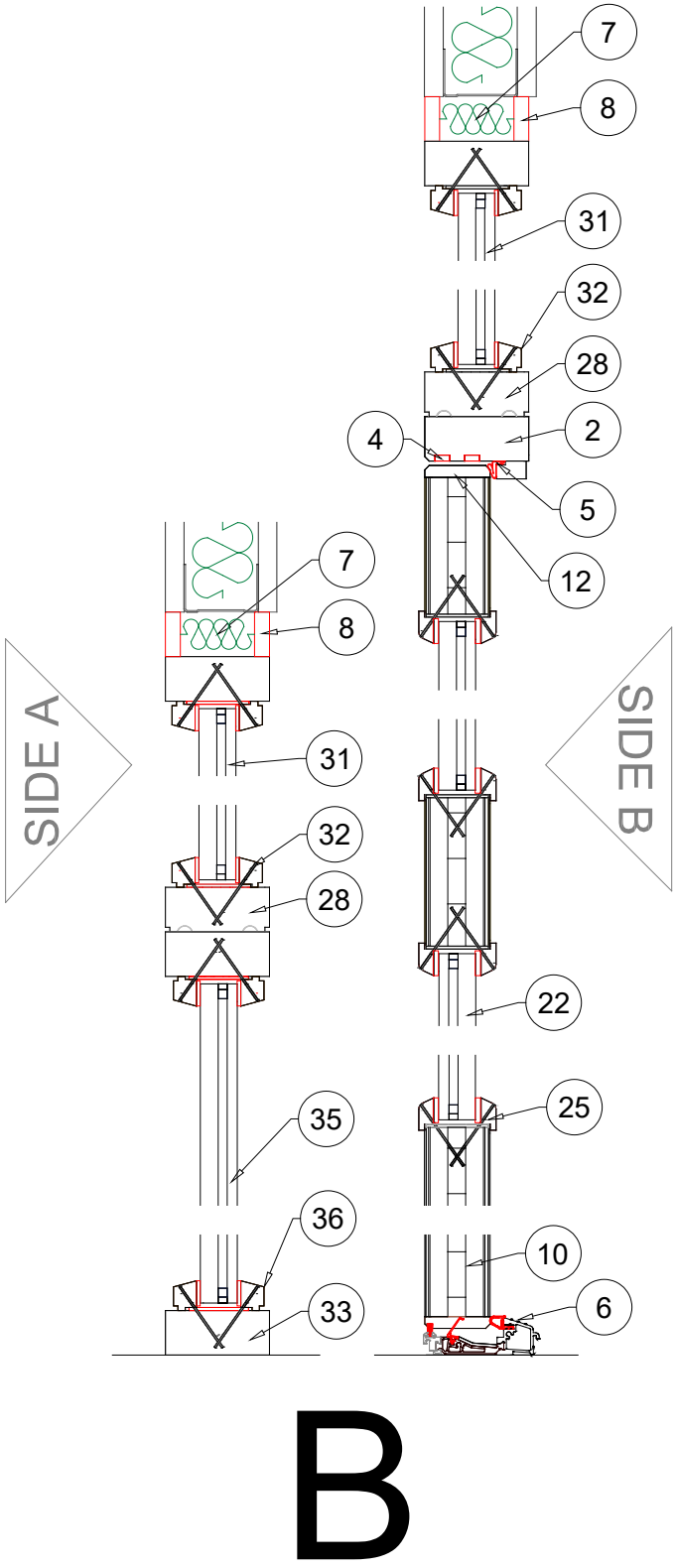


Figure 4 - Typical vertical section through Leaf B

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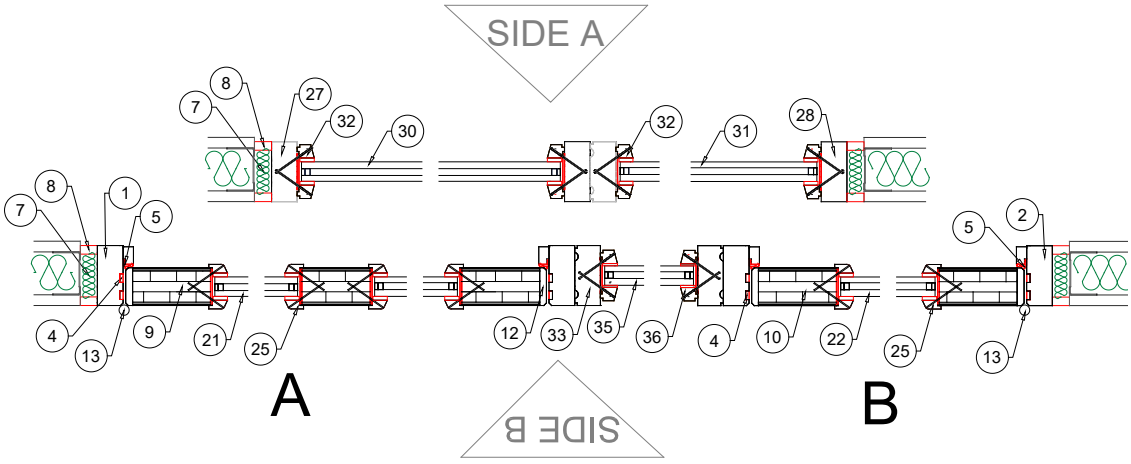


Figure 5 - Typical horizontal section through the specimen

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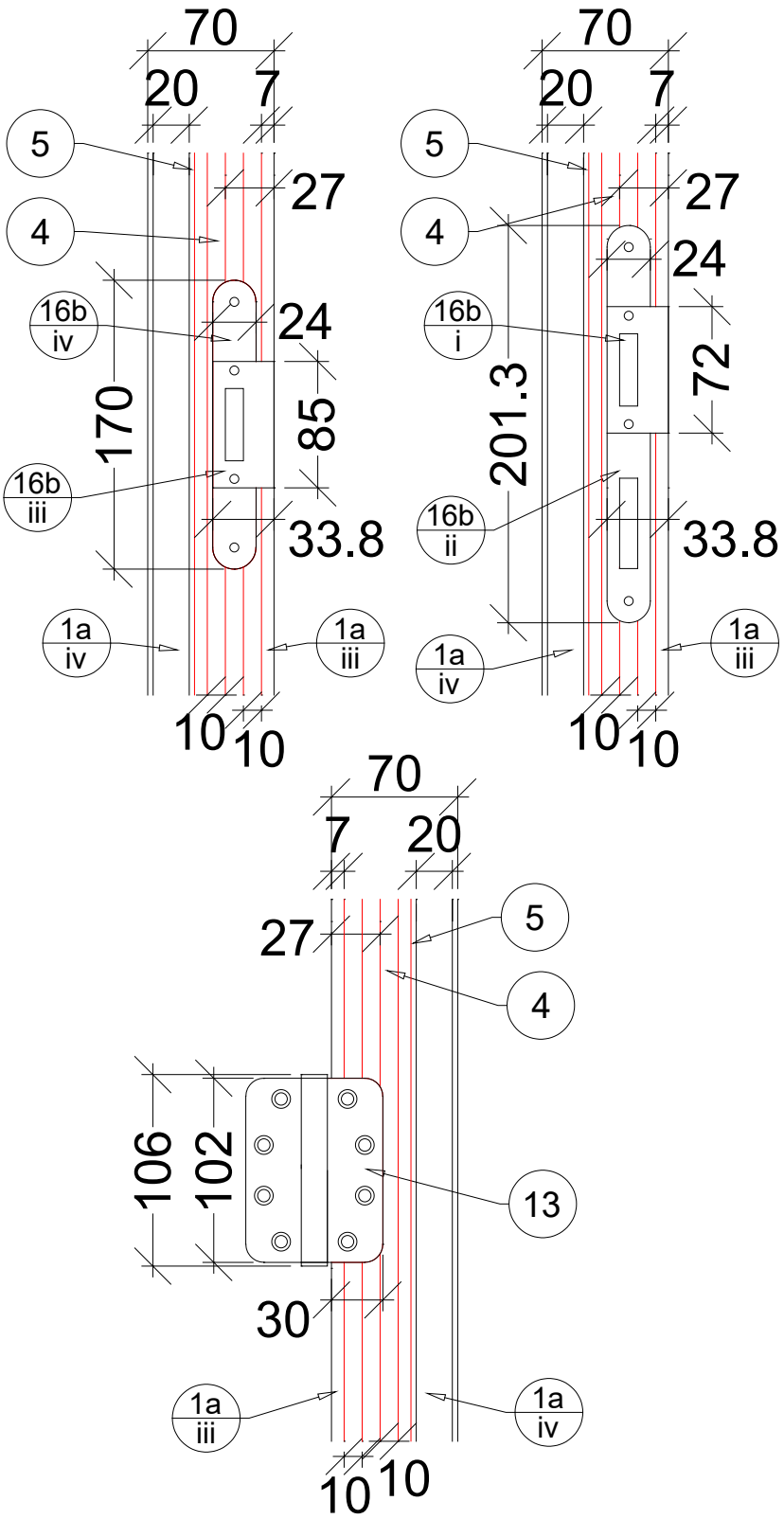


Figure 6 - Hardware intumescent interruptions

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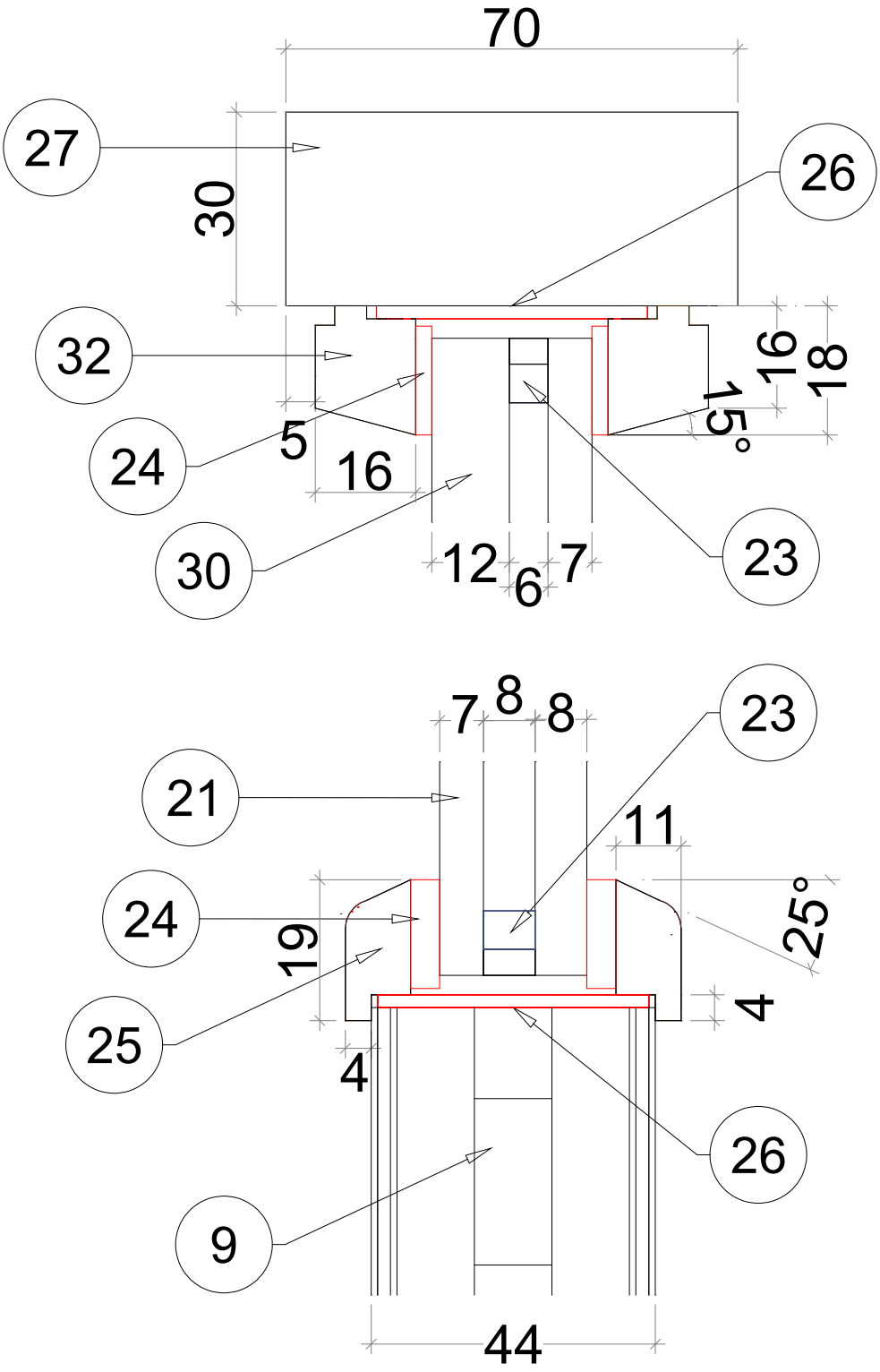


Figure 7 - Glazing detail

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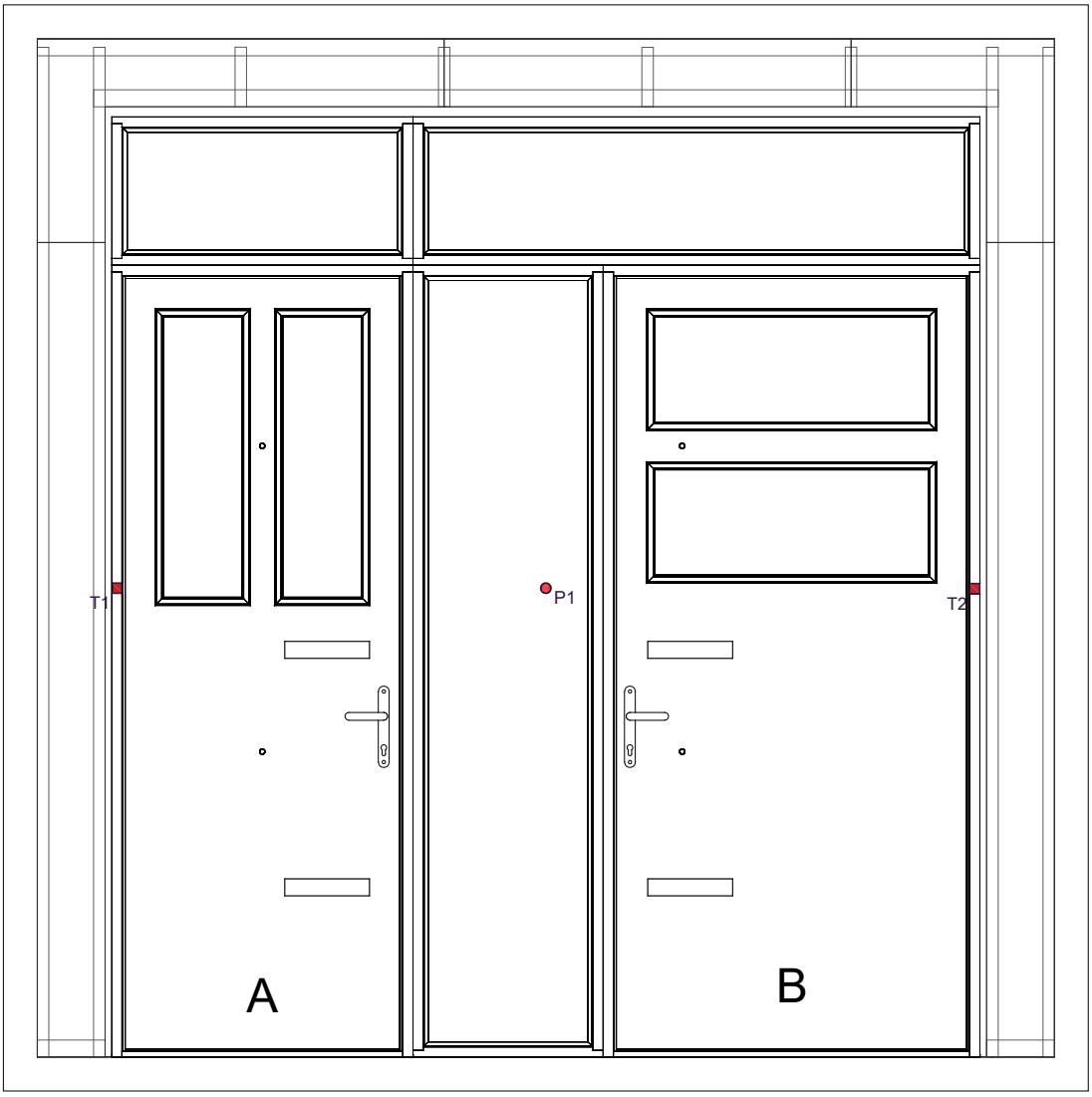


Figure 8 - Layout of instrumentation viewed from the unexposed surface of the test construction

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4 Technical Schedule

4.1 Specimen

1. Frame (Leaf A)	
Manufacturer	By Dezign Carpentry [1]
Supplier	Wood International Agency Limited [1]
Reference	Framebreak PI 450 [1]
Material	Engineered Softwood head and jambs [1]
Density	450 kg/m^3 [1]
Moisture content	12 % [2]
Orientation to testing chamber	Opening away
a. Dimensions	
i. Overall Frame	2333 mm high x 888 mm wide x 70 mm deep
ii. Frame (Head)	70 mm wide x 30 mm thick
iii. Frame (Jambs)	70 mm wide x 30 mm thick
iv. Stop	20 mm wide x 12 mm deep
Jamb to Head jointing method, fixing detail and location	Nominally 10 mm x 30 mm half lap joint, hand spread with Würth D4 PVA, secured with 2 No. Ø 5 mm x 70 mm long Würth Wüpofast 2.0 Woodscrew Fixings [1]
Stop to Frame jointing method, fixing detail and location	1.6 g x 38 mm long stainless steel pins at maximum 100 mm from corners, maximum 300 mm centres [1]
2. Frame (Leaf B)	
Manufacturer	By Dezign Carpentry [1]
Supplier	Wood International Agency Limited [1]
Reference	Framebreak PI 450 [1]
Material	Engineered Softwood head and jambs [1]
Density	450 kg/m^3 [1]
Moisture content	12 % [2]
Orientation to testing chamber	Opening away

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a. Dimensions	
i. Overall Frame	2333 mm high x 1111 mm wide x 70 mm deep
ii. Frame (Head)	70 mm wide x 30 mm thick
iii. Frame (Jambs)	70 mm wide x 30 mm thick
iv. Stop	20 mm wide x 12 mm deep
Jamb to Head jointing method, fixing detail and location	Nominally 10 mm x 30 mm half lap joint, hand spread with Würth D4 PVA, secured with 2 No. Ø 5 mm x 70 mm long Würth Wüpofast 2.0 Woodscrew Fixings [1]
Stop to Frame jointing method, fixing detail and location	1.6 g x 38 mm long stainless steel pins at maximum 100 mm from corners, maximum 300 mm centres [1]
3. Frame Fixing Method to Supporting Construction	
Manufacturer	Würth [1]
Reference	Wüpofast 2.0 [1]
Type & material	Countersunk woodscrews [1]
Material	Steel [1]
Overall size	Ø 5 mm x 100 mm long [1]
Location relative to frame reveal	Staggered 12.5 mm in from frame reveal
Frequency	150 mm from top corner of jamb, 150 mm from bottom corner of jamb and at no more than 600 mm centres
Does the fixing penetrate intumescent seal within frame reveal	No
Packing Material	Plastic [1]
Packing Material Dimension	28 mm wide x 100 mm (cut down to 70 mm – flush with frame faces) x various thicknesses, stacked as necessary [1]
Packing Material Location	Behind all screw fixings, stacked as necessary [1]
4. Intumescent to Frame Reveal	
a. Quantity	
i. Leaf A	2 No.
ii. Leaf B	2 No.
Manufacturer	Sealed Tight Solutions Limited [1]

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Reference	STS 104FO [1]
Material	PVC Encased Graphite [1]
Overall section size	10 mm wide x 4 mm thick
Application method	Self-adhesive
Location (relative to the opening face of the door leaf)	7 mm, 27 mm
5. Smoke Seal to Frame Reveal	
a. Quantity	
i. Leaf A	1 No.
ii. Leaf B	1 No.
Manufacturer	Quanex [1]
Reference	Aquamac 21 (QL 3009 – AQ 21) [1]
Material	Polyethylene film covered polyurethane [1]
Overall section size	10.9 mm wide x 13.3 mm deep [1]
Application method	Fiction fitted into kerf groove [1]
Location	Fitted to frame stop
6. Threshold	
Manufacturer	Stormguard [1]
Reference	FD30/60 Proline AM3-70 Thermal Hybrid with detachable front ramp [1]
Material	Aluminium and plastic [1]
Overall section size	25 mm high x 72 mm wide with 15 mm high x 49 mm wide detachable ramp [1]
Fixing method, location and fixing details	Screw fixed to floor/base
a. Seal 1 within threshold profile	
i. Type	Bubble seal [1]
ii. Manufacturer	Stormguard [1]
iii. Overall size	15 mm high x 8.4 mm wide [1]

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iv. Fixing method	Locator in seal profile press fits into channel within aluminium extrusion [1]
b. Seal 2 within threshold profile	
i. Type	Brush pile [1]
ii. Manufacturer	Stormguard [1]
iii. Overall size	5.4 mm high x 9.2 mm wide [1]
iv. Fixing method	Locator slide fits into channel within aluminium extrusion [1]
c. Seal 3 within threshold profile	
i. Type	Swipe fin [1]
ii. Manufacturer	Stormguard [1]
iii. Overall size	9.9 mm high x 18 mm wide [1]
iv. Fixing method	Locator in seal profile press fits into channel within aluminium extrusion [1]
d. Seal 4 within threshold profile	
i. Type	Intumescent [1]
ii. Manufacturer	Sealed Tight Solutions Limited [1]
iii. Overall size	27 mm wide x 2 mm thick [1]
iv. Fixing method	Self-adhered into drainage trough on top of polymeric thermal break [1]
7. Frame to Supporting Construction Fire Stopping Detail	
Manufacturer	Knauf
Reference	Rocksilk® RS45
Material	Rock Mineral Wool
Density	45 kg/m^3 (± 10 kg/m^3) [2]
Overall dimension	14.59 – 31.84 mm wide x 55 mm deep
Application method	Tight fit around frame perimeter, between specimen and supporting construction

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8. Sealant to Fire Stopping Detail	
Manufacturer	Sealed Tight Solutions Limited
Reference	ST88
Material	Intumescent mastic sealant
Overall section size	14.59 – 31.84 mm wide x 10 mm deep
Application method	Cartridge gunned
Location	Capping mineral wool, on both faces of supporting construction, around specimen
9. Door Leaf (Leaf A)	
Manufacturer	Wood International Agency Limited [1]
Reference	Soloman 44 [1]
Quantity of leaves on door set	1 No.
Glazing location relative to the head and closing edge	100 mm from the head of the leaf and 99 mm and 450 mm from the closing edge of the leaf [1]
Dimensions	2282 mm high x 822 mm wide x 44 mm thick [1]
Door Undercut (Top of cill / bottom of frame)	4.31 – 6.26 mm
10. Door Leaf (Leaf B)	
Manufacturer	Wood International Agency Limited [1]
Reference	Soloman 44 [1]
Quantity of leaves on door set	1 No.
Glazing location relative to the head and closing edge	100 mm and 531 mm from the head of the leaf and 99 mm from the closing edge of the leaf [1]
Dimensions	2282 mm high x 1045 mm wide x 44 mm thick [1]
Door Undercut (Top of cill / bottom of frame)	2.15 – 2.91 mm
11. Core Element	
Manufacturer	Wood International Agency Limited [1]
Reference	Soloman 44 [1]

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Material	Ply-faced solid timber core blank [1]
Density	408 - 433 kg/m^3 [1]
12. Lippings / Edge Banding	
Manufacturer	By Dezign carpentry [1]
Reference	Standard square lipping [1]
Material	Sapele [1]
Density	640 kg/m^3 [1]
Moisture content	12 % [2]
Overall section size	8 mm thick x 44 mm deep
Fixing method	Adhered to blank edges [1]
Location	All 4 edges of door leaf
a. Adhesives	
i. Manufacturer	Würth [1]
ii. Type	Polyurethane [1]
iii. Reference	Rapid MCPU Adhesive [1]
iv. Curing method	Moisture [1]
v. Application method	Hand spread and cramped [1]
13. Hinges	
Supplier	Hoppe UK [1]
Reference	Arrone AR8182-SSS [1]
a. Quantity	
i. Leaf A	3 No.
ii. Leaf B	3 No.
Primary material	Stainless steel [1]
Type	Ball bearing butt hinge [1]
b. Dimensions	

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i. Knuckle	Ø 14 mm x 106 mm high
ii. Blades	102 mm high x 30 mm wide x 3 mm thick
c. Fixings	
i. Type	Countersunk woodscrews [1]
ii. Material	Stainless steel [1]
iii. Size	Ø 4.5 mm x 31 mm long [1]
iv. Number of fixings per blade	4
Position of each hinge relative to the head of the leaf	150 mm, 350 mm and 1968 mm from top of door leaf
Details of intumescent protection	1 mm STS Graphite pad [1]
Interruptions to Intumescent within the frame reveal	Fully interrupts one seal, partially interrupts second seal
14. Door Closer	
Manufacturer	Rutland [1]
Reference	ITS.11204 [1]
a. Material	
i. Body	Aluminium [1]
ii. Closer arm	Steel [1]
Configuration	Concealed closer
b. Overall size	
i. Body	243 mm long x 57 mm wide x 32 mm deep
ii. Connector Bar	365 mm long x 20 mm wide x 5 mm deep
iii. Slide Rail	460 mm long x 19 mm wide x 31 mm thick
c. Fixing method	
i. Body	8 No. Ø 4.5 mm x 15 mm woodscrews to each flange on closer body [1]
ii. Slide Rail	4 No. Ø 4.5 mm x 15 mm woodscrews to slide channel [1]

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d. Details of Intumescent Protection	
i. Body	Closer protected with 1 No. 32 mm wide x 1 mm thick x 458 mm long STS graphite intumescent strip on top of closer body lining entire channel, with cut outs where access to adjustment screws are positioned [1]
ii. Slide Rail	1 No. 67 mm wide x 1 mm thick x 496 mm long STS graphite intumescent strip lining the 21 mm wide x 20 mm deep x 462 mm long mortice for slide rail [1]
15. Lockset	
Manufacturer	Rutland [1]
Reference	RMP3.1720.45 [1]
a. Material	
i. Lockcase	Steel [1]
ii. Forend plate	Brushed Stainless Steel [1]
iii. Latch bolt	Brushed Stainless Steel [1]
iv. Lock bolt	Brushed Stainless Steel [1]
v. Top and bottom lock case	Steel [1]
vi. Top and bottom lock bolts	Steel [1]
b. Dimensions	
i. Central Lockcase	185.5 mm high x 15 mm wide x 61.5 mm (65 mm deep including forend plate) [1]
ii. Forend Plate	1720 mm high x 20 mm wide x 3 mm thick [1]
iii. Latch Bolt	30 mm high x 9 mm wide x 11 mm projection [1]
iv. Lock Bolt	30 mm high x 6 mm wide x 15 mm single projection [1]
v. Top and Bottom Lock Case	114 mm high x 20 mm wide x 41 mm deep (44 mm deep including forend plate) [1]
vi. Top and Bottom Lock Bolts	47 mm high x 8 mm wide x 23 mm projection [1]
Fixing method	10 No. Ø 3.5 mm x 25 mm long countersunk woodscrews [1]

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Operation of latch bolt	Engaged
Operation of lock bolt	Disengaged
Operation of Top and bottom lock bolts	Engaged
c. Details of intumescent protection	
i. Central Lockcase	Encased with 1 mm thick STS graphite intumescent strip, cut outs around moving parts [1]
ii. Top and bottom lock case	Encased with 1 mm thick STS graphite intumescent strip, cut outs around moving parts [1]
iii. Forend plate	1 mm thick STS graphite intumescent strip adhered to ends of forend. A 10 mm wide x 1 mm thick STS graphite intumescent strip adhered to groove in door behind espag drive bar, in between each lock case [1]
Location of centre of the spindle relative to the bottom of the leaf	Centre of the spindle measures 1000 mm from the bottom of the leaf [1]
16. Keeper	
Manufacturer	Rutland [1]
a. Reference	
i. Centre Keep	RMP3.KCR.SS [1]
ii. Top and Bottom Keep	RMP3.KTBR.SS [1]
b. Material	
i. Centre Strike Plate	Aluminium [1]
ii. Centre Keep	Aluminium [1]
iii. Top and Bottom Strike Plate	Aluminium [1]
iv. Top and Bottom Keep	Aluminium [1]
c. Dimensions	
i. Centre Strike Plate	72 mm high x 35 mm wide x 7.3 mm thick (part of Keep Plate) [1]

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ii. Centre Strike Keep	201.3 mm high x 24 mm wide x 5 mm thick [1]
iii. Top and Bottom Strike Plate	85 mm high x 33.8 mm wide x 6.5 mm thick (part of Top and Bottom Keep Plate) [1]
iv. Top and Bottom Strike Keep	170 mm high x 24 mm wide x 5 mm thick [1]
d. Fixing Method	
i. Centre Strike Plate / Keep	3 No. Ø 4.0 mm x 40 mm long countersunk woodscrews [1]
ii. Top and Bottom Strike Plate / Keep	4 No. Ø 4.0 mm x 40 mm long countersunk woodscrews (2 No. per keep) [1] 4 No. M5 x 8 mm long machine screws to secure adjustable strike plate (2 No. per keep) [1]
e. Details of Intumescent Protection	
i. Centre Strike Plate / Keep	Mortice lined with 1 mm thick STS graphite intumescent strip [1]
ii. Top and Bottom Strike Plate / Keep	Mortice lined with 1 mm thick STS graphite intumescent strip [1]
f. Interruptions to intumescent within frame reveal	
i. Centre Strike Plate / Keep	Partially interrupts
ii. Top and Bottom Strike Plate / Keep	Partially interrupts
17. Cylinder with Thumb Turn	
Manufacturer	Avocet [1]
Reference	ATK - DC7AS3535PCQT [1]
Material	Chromed brass [1]
Overall size	Ø 17 mm x 32 mm high x 70 mm long (plus Thumb turn)

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18. Lever Handles	
Manufacturer	Rutland [1]
Reference	RH.RLB [1]
Material	Zinc Alloy [1]
Dimensions	240 mm high x 32 mm wide x 23 mm thick x 130 mm long
Fixing method, fixing material, sizes, quantity and location	2 No. steel M5 x 60 mm long bolt through fixings [1]
19. Letter Plate	
Manufacturer	Rutland [1]
Reference	RLP [1]
a. Quantity	
i. Leaf A	2 No.
ii. Leaf B	2 No.
b. Material	
i. Body	ABS [1]
ii. Face plate	Aluminium [1]
iii. Security cowl	Aluminium [1]
c. Dimensions	
i. Body	69 mm high x 289 mm wide x 44 mm thick [1]
ii. Cut out	80 mm high x 299 mm wide [1]
iii. Footprint	90 mm high x 311 mm wide x 15 mm thick [1]
iv. Security cowl	85 mm high x 289 mm wide x 5 mm thick x 14 mm projection [1]
d. Fixing method	
i. Interior and Exterior Plates	Clamp fixed together using 2 No. through door screw fix M6 x 50 mm long [1]
ii. Security Cowls	2 No. pinscrews [1]
Location	1042 and 1750 mm from head of door leaf x 110 mm from leading edge of door leaf

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Details of intumescent protection	Rutland IP.RLP - Graphite intumescent kit for RLP letterplate: 40 mm w x 4 mm to top, 6 mm to bottom and sides [1]
20. Door Viewer	
Manufacturer	Rutland [1]
Reference	RH.DV [1]
a. Quantity	
i. Leaf A	2 No.
ii. Leaf B	2 No.
Material	Brass
b. Dimensions	
i. Body	Ø 14 mm
ii. Footprint	Ø 22.5 mm to unexposed face, Ø 22 mm to exposed face
iii. Cut out	Ø 17 mm
Fixing method	Self-screwed
c. Location	
i. Leaf A	500 mm, 1400 mm from head of leaf, central to width of leaf
ii. Leaf B	500 mm, 1400 mm from head of leaf, 200 mm from leading edge of leaf
Details of intumescent protection	1 mm thick STS graphite intumescent strip wrapped around body [1]
21. Door Glazing Unit (Leaf A)	
Manufacturer / Supplier	Fire Glass UK
Reference (Declaration of Performance)	Pyrobelite 12:6 mm warm edge, Argon Filled 6:8 Low E Clear Lam
Quantity	2 No.
Dimensions	855 mm high x 262 mm wide x 25.1 mm thick
Aperture location relative to the head and closing edge of the leaf	100 mm from the head of the leaf and 99 mm from the closing edge of the leaf
Aperture size (prior to any lining)	865 mm high x 272 mm wide

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Sight size	831 mm high x 238 mm wide [1]
Expansion allowance	3 mm all around [1]
Presence of Timber aperture lining	No [1]
22. Door Glazing Unit (Leaf B)	
Manufacturer / Supplier	Fire Glass UK
Reference (Declaration of Performance)	Pyrobelite 12:6 mm warm edge, Argon Filled 6:8 Low E Clear Lam
Quantity	2 No.
Dimensions	340 mm high x 837 mm wide x 25.1 mm thick
Aperture location relative to the head and closing edge of the leaf	100 mm from the head of the leaf and 99 mm from the closing edge of the leaf
Aperture size (prior to any lining)	350 mm high x 847 mm wide
Sight size	316 mm high x 813 mm wide [1]
Expansion allowance	3 mm all around [1]
Presence of Timber aperture lining	No [1]
23. Glass Spacer	
Manufacturer	Thermoseal [1]
Reference	5.5 mm Thermobar [1]
Material	Rigid high-performance engineering plastic with a gas diffusion barrier [1]
Overall size	5.5 mm thick [1]
Fixing method	PIB Butyl Tape [1]
a. Presence of Adhesives to seal unit	
i. Location	Around unit perimeter [1]
ii. Manufacturer	Bostik [1]
iii. Type	Thermoplastic Hot-Melt Butyl [1]
iv. Reference	Bostik 5000 [1]
v. Curing method	Cooling [1]

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vi. Application method	Gun applied [1]
24. Glazing Seal	
Manufacturer	Dixon International Group Limited [1]
Reference	Sealmaster Intumescent Foam Glazing Tape [1]
Material	Open cell intumescent foam [1]
Overall size	15 mm wide x 5 mm thick (compressed to approximately 3 mm thickness) [1]
Fixing method	Adhered to bead upstand [1]
Location	In between beading and glass, adhered to glazing bead upstand [1]
25. Door Beading (Leaf A & B)	
Manufacturer	By Dezign Carpentry [1]
Reference	Standard Bolection Bead [1]
Material	Sapele [1]
Density	640 kg/m^3 [1]
Moisture content	12 % [2]
a. Dimensions	
i. Leaf A	860 mm high x 276 mm wide x 11 mm deep [1]
ii. Leaf B	354 mm high x 851 mm wide x 11 mm deep [1]
Cross Section Size	11 mm wide x 19 mm high including a 4 mm high x 4 mm wide bolection [1]
Fixing method, fixing material and sizes	Ø 3.5 mm x 50 mm long ZPYP steel woodscrews [1]
Fixing distances from corners, centres and angle relative to the face of the glass	50 mm from corners, maximum 150 mm centres and at 35 ° ± 5° to the face of the glass [1]

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26. Glazing Intumescent Liner	
Manufacturer	Intumescent Seals Limited [1]
Supplier	Dixon International Group Limited [1]
Reference	Therm-A-Sol [1]
Material	Sodium silicate [1]
Overall size	44 mm wide x 2 mm thick [1]
Fixing method	Self-adhesive
27. Fanlight Frame (Leaf A)	
Manufacturer	By Dezign Carpentry [1]
Supplier	Wood International Agency Limited [1]
Reference	FL2 [1]
Material	Flamebreak PI 450 [1]
Density	450 kg/m^3 [1]
Moisture content	12 % [2]
Overall size	437 mm high x 888 mm wide x 70 mm deep [1]
Fixing Method	Screw fixed into door frame [1]
a. Fixings	
i. Manufacturer	Würth [1]
ii. Reference	Wüpofast [1]
iii. Type & Material	Steel woodscrews [1]
iv. Dimensions	Ø 5 mm x 50 mm long [1]
v. Frequency	150 mm from edges and 300 mm centres [1]
28. Fanlight Frame (Leaf B)	
Manufacturer	By Dezign Carpentry [1]
Supplier	Wood International Agency Limited [1]
Reference	FL2 [1]

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Material	Flamebreak PI 450 [1]
Density	450 kg/m^3 [1]
Moisture content	12 % [2]
Overall size	437 mm high x 1672 mm wide x 70 mm deep [1]
Fixing Method	Screw fixed into door frame [1]
a. Fixings	
i. Manufacturer	Würth [1]
ii. Reference	Wüpofast [1]
iii. Type & Material	Steel woodscrews [1]
iv. Dimensions	Ø 5 mm x 50 mm long [1]
v. Frequency	150 mm from edges and 300 mm centres [1]
29. Fanlight Frame Fixing Method to Supporting Construction	
Manufacturer	Würth [1]
Reference	Wüpofast [1]
Type & material	Countersunk woodscrews [1]
Material	Steel [1]
Overall size	Ø 5 mm x 100 mm long [1]
Fixing Location	In glazing channel/under beads [1]
Frequency	No more than 600 mm centres
Packing Material	Plastic [1]
Packing Material Dimension	28 mm wide x 100 mm (cut down to 70 mm) x various thicknesses [1]
Packing Material Location	Behind all screw fixings, stacked as necessary [1]
30. Fanlight Glazing Unit (Leaf A)	
Manufacturer / Supplier	Fire Glass UK [1]
Reference (Declaration of Performance)	Pyrobelite 12:6 mm warm edge, Argon filled: 6.8 Low E Clear Lam
Overall size	367 mm high x 818 mm wide x 25.1 mm thick [1]

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Aperture size	377 mm high x 828 mm wide [1]
Sight size	341 mm high x 792 mm wide [1]
Expansion allowance	3 mm [1]
31. Fanlight Glazing Unit (Leaf B)	
Manufacturer / Supplier	Fire Glass UK [1]
Reference (Declaration of Performance)	Pyrobelite 12:6 mm warm edge, Argon filled: 6.8 Low E Clear Lam
Overall size	367 mm high x 1602 mm wide x 25.1 mm thick [1]
Aperture size	377 mm high x 1612 mm wide
Sight size	341 mm high x 1576 mm wide [1]
Expansion allowance	3 mm [1]
32. Fanlight Beading (Leaf A & B)	
Manufacturer	By Dezign Carpentry [1]
Reference	Standard Bolection Bead [1]
Material	Sapele [1]
Density	640 kg/m^3 [1]
Moisture content	12 % [2]
a. Dimensions	
i. Leaf A	377 mm high x 828 mm wide x 16 mm thick
ii. Leaf B	377 mm high x 1612 mm wide x 16 mm thick
Cross Section Size	16 mm wide x 18 mm high [1]
Fixing method, fixing material and sizes	Ø 3.5 mm x 50 mm long steel woodscrews [1]
Fixing distances from corners, centres and angle relative to the face of the glass	50 mm from corners, 150 mm centres and at 35 ° ± 5° to the face of the glass [1]

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33. Sidelight Frame (Leaf B)	
Manufacturer	By Dezign Carpentry [1]
Supplier	Wood International Agency Limited [1]
Reference	FL2 [1]
Material	Flamebreak PI 450 [1]
Density	450 kg/m^3 [1]
Moisture content	12 % [2]
Overall size	2333 mm high x 561 mm wide x 70 mm deep
Fixing Method	Screw fixed into door frame [1]
a. Fixings	
i. Manufacturer	Würth [1]
ii. Reference	Wüpofast [1]
iii. Type & Material	Steel woodscrews [1]
iv. Dimensions	Ø 5 mm x 50 mm long [1]
v. Frequency	150 mm from edges and 300 mm centres [1]

34. Sidelight Frame Fixing Method to Supporting Construction	
Manufacturer	Würth [1]
Reference	Wüpofast [1]
Type & material	Countersunk woodscrews [1]
Material	Steel [1]
Overall size	Ø 5 mm x 100 mm long [1]
Fixing Location	Within glazing channel/under beads staggered [1]
Frequency	No more than 600 mm centres
Packing Material	Plastic [1]
Packing Material Dimension	28 mm wide x 100 mm (cut down to 70 mm) x various thicknesses [1]
Packing Material Location	Behind all screw fixings, stacked as necessary [1]

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35. Sidelight Glazing Unit (Leaf B)	
Manufacturer / Supplier	Fire Glass UK [1]
Reference (Declaration of Performance)	Pyrobelite 12:6 mm warm edge, Argon filled: 6.8 Low E Clear Lam
Overall size	2263 mm high x 491 mm wide x 25.1 mm thick [1]
Aperture size	2273 mm high x 501 mm wide
Sight size	2237 mm high x 465 mm wide [1]
Expansion allowance	3 mm [1]
36. Sidelight Beading (Leaf B)	
Manufacturer	By Dezign Carpentry [1]
Reference	Standard Bolection Bead [1]
Material	Sapele [1]
Density	640 kg/m^3 [1]
Moisture content	12 % [2]
Dimensions	2273 mm high x 501 mm wide x 16 mm thick
Cross Section Size	16 mm wide x 20 mm high
Fixing method, fixing material and sizes	Ø 3.5 mm x 50 mm long steel woodscrews [1]
Fixing distances from corners, centres and angle relative to the face of the glass	50 mm from corners, maximum 150 mm centres and at 35 ° ± 5° to the face of the glass [1]

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4.2 Supporting Construction

37. Associated Supporting Construction As Per BS EN 1363-1:2020 § 7.2.2.4	
Intended Resistance	EI30
Group	A
Timber Inserts to Studs	Jambs and Head
38. Head / Floor Track	
Supplier/ Manufacturer	Knauf UK
Reference	Knauf U-Channel
Type & Material	Steel U-Channel
Dimensions	52 mm deep x 25 mm wide x 3000 mm long x 0.55 mm thick
Fixing Method	Screw fixed to head and base of the restraint frame
a. Fixing	
i. Supplier	United Kingdom Testing and Certification
ii. Reference	TX Countersunk concrete screw
iii. Material	Steel
iv. Dimension	Ø 7.5 mm x 100 mm at the head Ø 7.5 mm x 100 mm at base long self-tapping screws
v. Frequency	Maximum 600 mm centres
39. Studs	
Manufacturer	Knauf UK
Reference	Knauf C stud
Type & Material	Steel C-Stud
Dimensions	50 mm deep x 35 mm flange x 3000 mm long x 0.55 mm thick
Fixing Method	Friction fitted to the head/floor track at 600 mm centres

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40. Lining(s)	
Manufacturer	Knauf UK
Reference	Knauf Fire Panel
Type & Material	Paper faced, gypsum plasterboard type F
Density	10 kg/m^2 [2]
Layer Quantity	1
Dimensions	12.5 mm thick x 1200 mm wide x 2400 mm high
Fixing method	Fixed on the face of the boards into C-studs at nominal 300 mm centres
a. Fixings	
i. Supplier	United Kingdom Testing and Certification
ii. Reference	Jackpoint Drywall Screws
iii. Material	Steel
iv. Dimension	Ø 3.8 mm x 32 mm long
v. Location	Fixed edge stud only
Joints Filled & Taped With	Aluminium tape over all board joints

41. Wall Insulation	
Manufacturer	Knauf Insulation Ltd
Reference	Knauf Insulation Rocksilk® RS45 Building Slab
Type & Material	Rock mineral wool slab
Dimensions	1200 mm high x 600 mm wide x 50 mm thick slab sections
Density	45 kg/m^3 (± 10 kg/m^3) [2]
Fixing Method	Compression fitted
Locations	Centrally Located in the wall

All dimensions are in millimetres (mm) unless otherwise stated.

1. Information provided by the Test Sponsor. Not verified by United Kingdom Testing and Certification.

2. Nominal value.

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3. Information is commercial in confidence. Full details are retained on file by United Kingdom Testing and Certification.

4. The sponsor was unable to provide the information required to adequately describe the specimen. It should be noted that not all of the information required by the Standard has been included and the report does not therefore comply with the requirements of the Standard.

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5 Specimen Photographs



Figure 9 – Items 1, 4

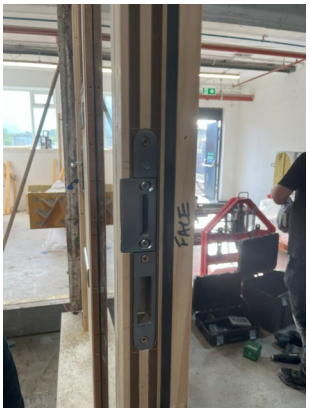


Figure 10 – Items 1, 4, 16 b i

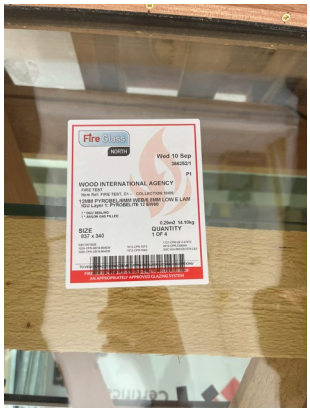


Figure 11 - Item 22



Figure 12 – Items 1, 33, 28



Figure 13 - Item 19



Figure 14 - Item 1



Figure 15- Item 6



Figure 16 – Items 27, 28



Figure 17 - Item 8

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6 Observations

Pressure Differential (Pa)	Observation
10	No Visible Changes
25	No Visible Changes
-10	No Visible Changes
-25	No Visible Changes

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7 Test Images



Figure 18 – The closing face of the specimen prior to commencement of the test.



Figure 16 - The non chamber face of the specimen fully taped prior to commencement of the test.

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Figure 17 - The non chamber face of the specimen with Door B untaped.



Figure 18 - The non chamber face of the specimen with everything untaped..

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8 On-going Implications

8.1 Limitations

This report details the method of construction, the test conditions and the results obtained when the specific element of construction described herein was tested following the procedure outlined in BS EN 1634-3:2014. Any significant deviation with respect to size, constructional details, loads, stresses, edge, or end conditions is not covered by this report.

Guidance on the field of direct application can be found in BS EN 1634-3:2014 § 13 and can be applied following the identification of classification(s) according to BS EN 13501-2:2023.

8.2 UKAS Status

The UKAS status of this report has been removed in accordance with FTSG Resolution 76 as the sponsor was unable to provide the information required to adequately describe the specimen(s). It should be noted that not all of the information required by the Standard has been included and the report does not, therefore, comply with the requirements of the Standard.

8.3 European Group of Organisations for Fire Testing (EGOLF)

Certain aspects of some fire test specifications are open to different interpretations. EGOLF have identified several such areas and have agreed resolutions which define common agreement of interpretations between fire test laboratories which are members of the Group. The following resolutions have been followed when conducting this test:

1. EGOLF Recommendation 013-2017 – Content of statements of 'Field of direct application' in test reports.

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9 Figures

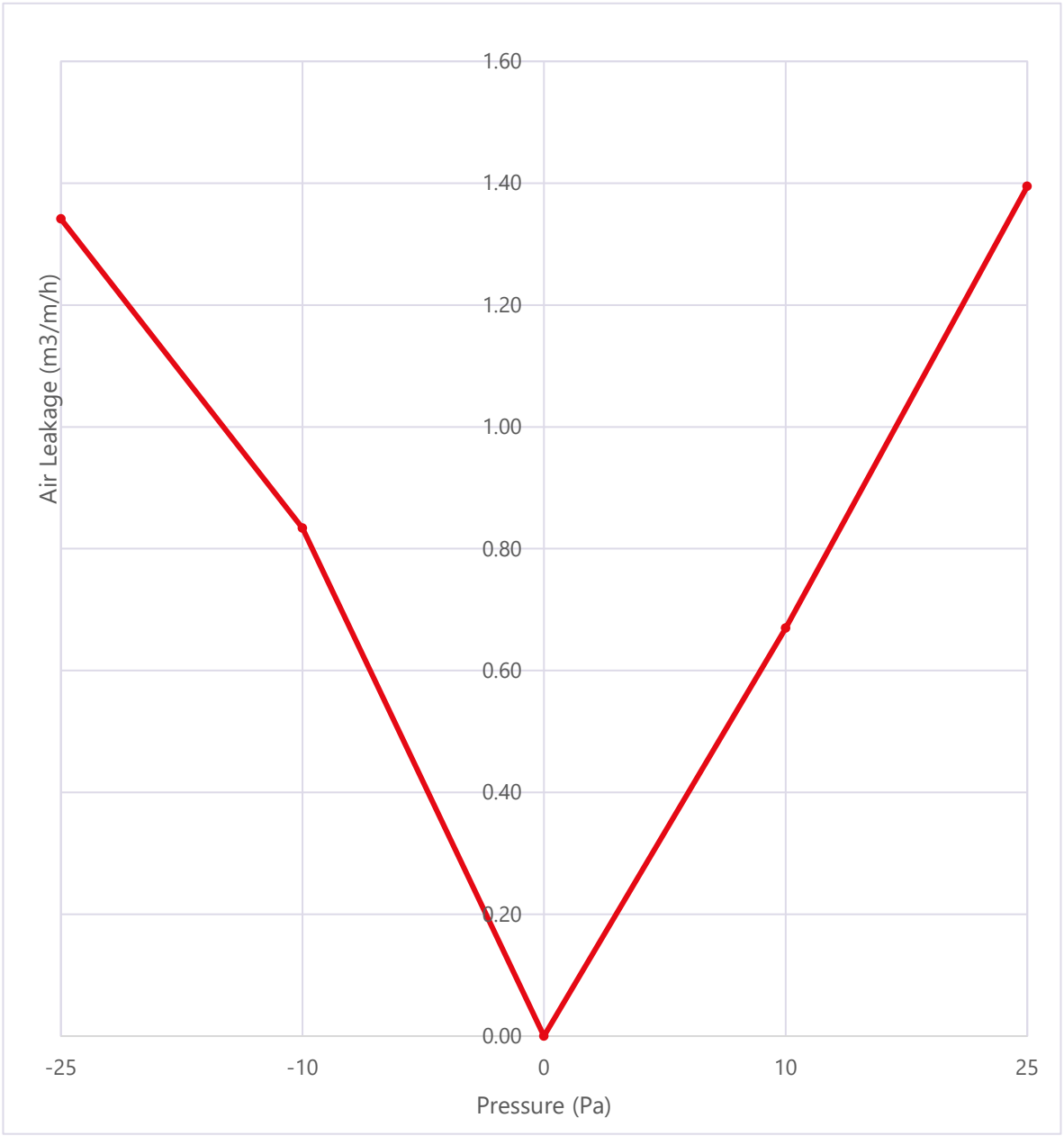


Figure 19 – Graph presenting the Pressure-Linear Leakage rate of the specimen- Test 1

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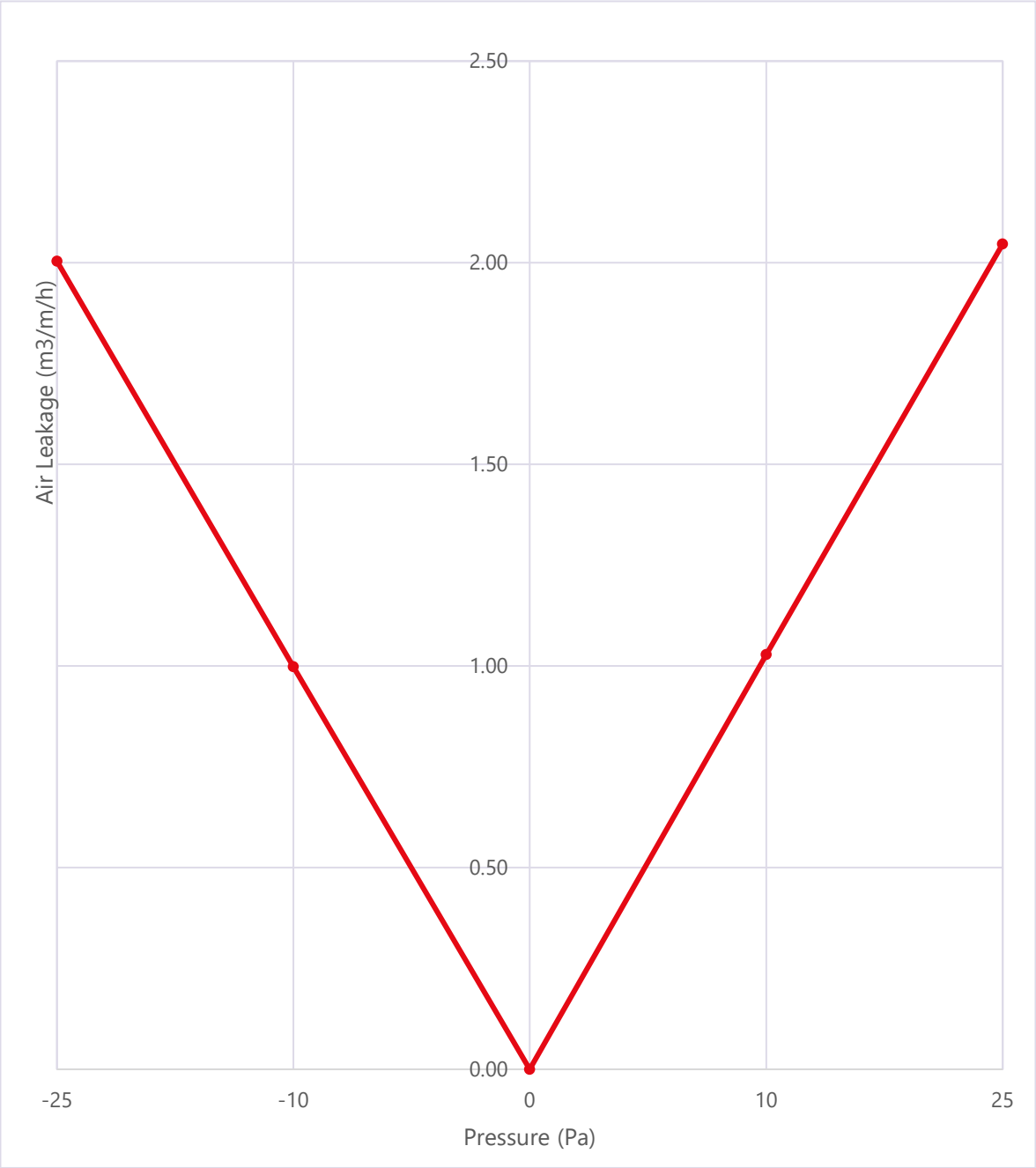


Figure 20 – Graph presenting the Pressure-Linear Leakage rate of the specimen- Test 2

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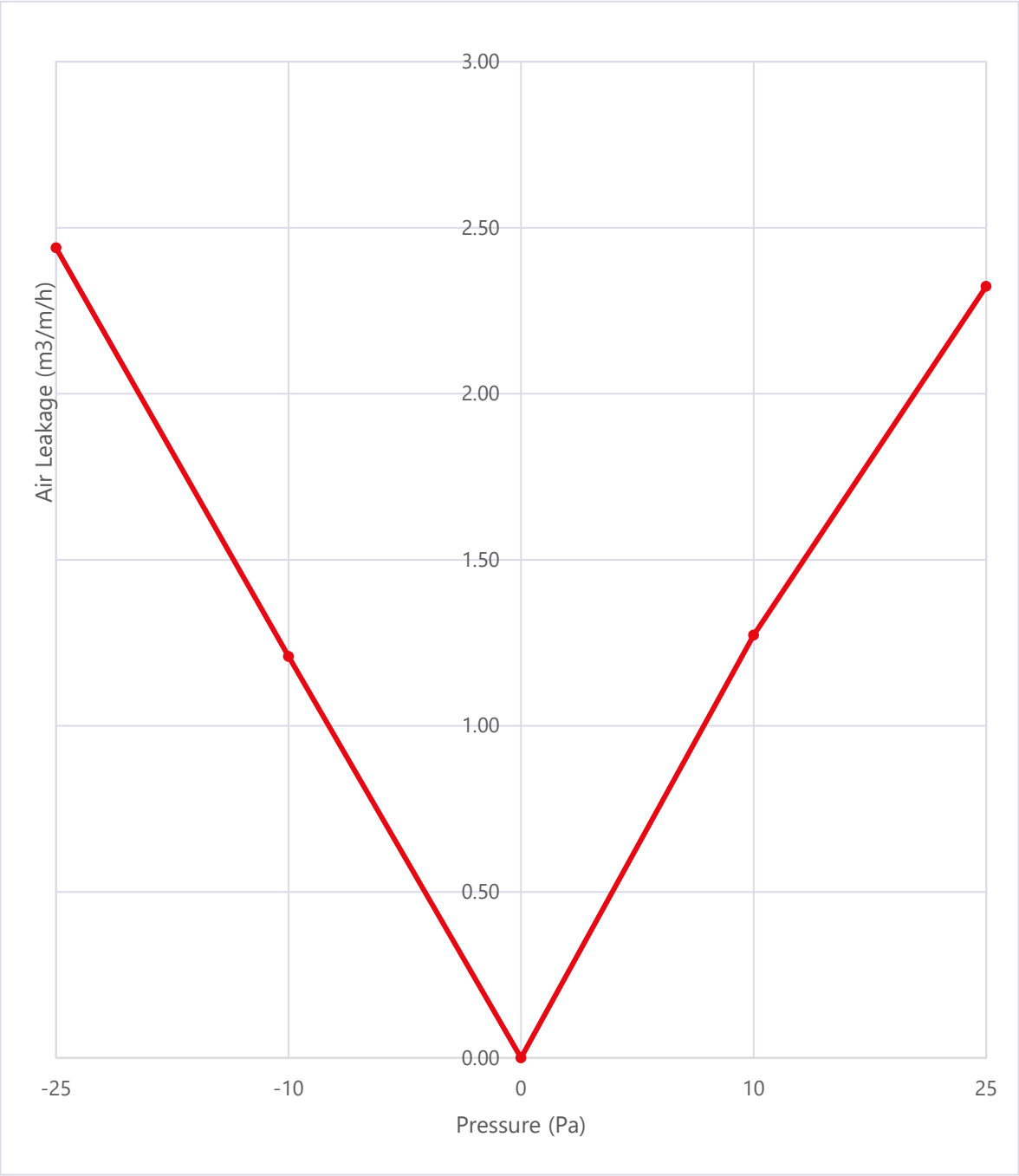


Figure 20 – Graph presenting the Pressure-Linear Leakage rate of the specimen- Test 3

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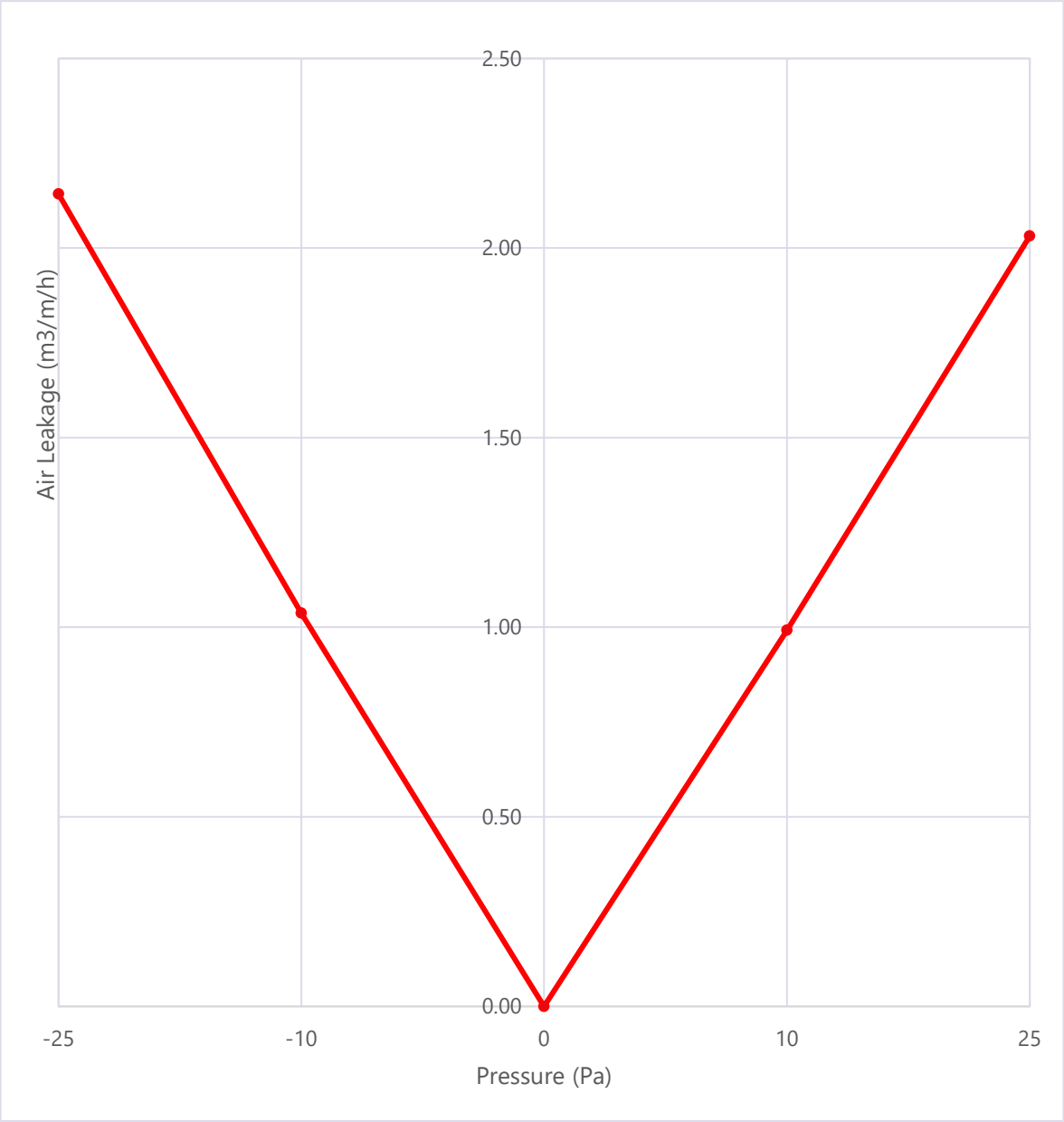


Figure 20 – Graph presenting the Pressure-Linear Leakage rate of the specimen- Test 4

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