

Fire resistance test report

Issuing laboratory: Warringtonfire Testing and Certification Limited

Test standard: BS EN 1634-1:2014 + A1:2018

Test sponsor: Wood International Agency Ltd

16 King Edward Road
Brentwood
Essex
CM14 4HL
United Kingdom

Product: Two Asymmetrical, Single-Acting, Single-Leaf Timber Doorsets incorporating glazing

Report number: 557883/R

Test date: 06 March 2026

Issue: 2

This report supersedes original issue dated 03 July 2026

Warringtonfire, accredited for compliance with ISO/IEC 17025:2017 – Testing

Registered Laboratory:
Warringtonfire
Holmesfield Road
Warrington
Cheshire
WA1 2DS
United Kingdom



Approved Body Number 0833



Summary of Tested Specimen

For the purposes of the test the doorsets were referenced as Doorset A and Doorset B. Both doorsets were installed into apertures within a low-density blockwork supporting construction.

Doorset A and **Doorset B** had overall nominal dimensions of 2412 mm high by 996 mm wide, incorporating a single door leaf with nominal dimension of 2350 mm high by 926 mm wide by 44 mm thick. The door leaf was hung within a European Redwood frame on three stainless steel hinges, such that the leaf of **Doorset A** opened towards the heating conditions and the leaf of **Doorset B** opened away from the heating conditions. The door leaves were referenced 'Soloman 44' and both incorporated 8 mm lippings adhered to all edges of the leaves. The door leaves both incorporated two vision panels glazed with 12 mm thick glass with overall nominal dimensions of 1137 mm high by 303 mm wide and a surface mounted door closer referenced 'TS5204' on the exposed face of **Doorset A** and the unexposed face of **Doorset B**. Both doorsets incorporated a latchset which remained latched but unlocked for the duration of the test.

Structural opening size: 2430 mm high by 1025 mm wide

Detailed drawings of the test specimen(s) and a comprehensive description of the test construction based on a detailed survey of the specimen(s) and information supplied by the sponsor of the test are included in the Test Specimen and Schedule of Components sections of this report.

Test Results

Integrity It is required that the specimen retains its separating function, without either causing ignition of a cotton pad when applied or permitting the penetration of a gap gauge as specified in BS EN 1634-1: 2014 + A1:2018 or resulting in sustained flaming on the unexposed surface. **These requirements were satisfied for the periods shown below:**

	Specimen A		Specimen B	
Sustained flaming	48 minutes	Failure	48 minutes	Failure
Gap gauge	48 minutes	No failure*	48 minutes	No failure*
Cotton pad	48 minutes	Due to sustained flaming	48 minutes	Due to sustained flaming

Insulation (I₂) The mean temperature rise of the unexposed surface shall not be greater than 140°C and that the maximum temperature rise shall not be greater than 180°C with the exception that the limit for temperature rise for any frame member or transom member adjacent to the leaf/leaves of the doorset or openable window shall be 360°C. Insulation failure also occurs simultaneously with integrity failure as specified in BS EN 1634-1: 2014 + A1:2018. **These requirements were satisfied for the period shown below:**

Specimen	27 minutes	Exceeded maximum temperature criteria TC21	30 minutes	Exceeded maximum temperature criteria TC47 & TC48
Discrete area	21 minutes	Exceeded mean temperature criteria Average	25 minutes	Exceeded mean temperature criteria Average

Insulation (I₁) The test specimen shall be evaluated against the maximum temperature rise criterion specified in EN 1363-1: 2020 (180°C).

Specimen	27 minutes	Exceeded maximum temperature criteria TC21	30 minutes	Exceeded maximum temperature criteria TC47 & TC48
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Radiation BS EN 1363-2: 1999 requires that the time for the measured radiation to exceed 5, 10, 15, 20 and 25 kW/m² is reported.

	5 kW/m ²	10 kW/m ²	15 kW/m ²	20 kW/m ²	25 kW/m ²
Specimen A	48 minutes	48 minutes	48 minutes	48 minutes	48 minutes
Specimen B	48 minutes	48 minutes	48 minutes	48 minutes	48 minutes

*Test was discontinued after a period of 48 minutes.

Date of test 06 March 2026

Location of test Element Materials Technology, 722 Birchwood Park, Warrington WA3 6FW, United Kingdom

Test date: 06/03/2026

Test standard: BS EN 1634-1:2014 + A1:2018

Test sponsor: Wood International Agency Ltd

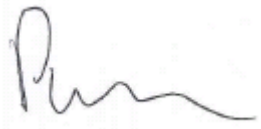
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Quality Management

Issue No: 1		Issue Date: 03 July 2026	
Responsible Officer:	P. White* Technical Officer	Approved By:	S. Whittle* Testing Manager
			

Issue No: 2		Issue Date: 24 July 2026	
Responsible Officer:	P. White* Technical Officer	Approved By:	S. Whittle* Testing Manager
			
Reason for revision: - Figure 2 updated to show the correct security chain label - Figure 4 updated to show the correct hinge drawing - Item 18: Hinge 'reference' and 'interruptions to intumescent within the frame reveal' details updated			

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

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Test Conditions

Standard

In accordance with BS EN 1634-1:2014+A1:2018 Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows.

Sampling

A representative of **BMTrada** sample selected the following components of the tested specimen:

Component	Sampling date	Sampling report reference
3 x Timber Based Glazed Doorsets	27/02/2026, 02/03/2026, 04/03/2026	SC26113T
44 mm Timber Door Blank	07/11/2023	SCT23262B

Installation

Copies of sampling reports are included in the Sample Report section.

The doorsets were received on the 05 March 2026 and mounted within apertures in a blockwork wall construction; the leaves were single and **Doorset A** could open towards the furnace only, while **Doorset B** could open away from the furnace only. Representatives of the **Test Sponsor** conducted the installation on the 05 March 2026.

Specimen Direction

Tested specimen **A** was **asymmetrical**. Specimen **B** was **asymmetrical** The **Test Sponsor** defined the direction in which the specimen was tested, and it is shown in the test specimen drawings section of this report.

Conditioning

The specimen's storage, construction, and test preparation took place in the test laboratory over a total, combined time of 3 days. Throughout this period of time both the temperature and the humidity of the laboratory were measured and recorded as being within a range of from 11.5°C to 24°C and 35.5% to 68% respectively.

Instruction to Test

The test was conducted on the 06 March 2026 at the request of Wood International Agency Ltd, the **Test Sponsor**.

Neil Harrison, a representative of the **Test Sponsor** witnessed the test.

Pre-Test Conditioning

Prior to testing, the doorset was subjected to appropriate mechanical pre-test conditioning in accordance with the below requirements:

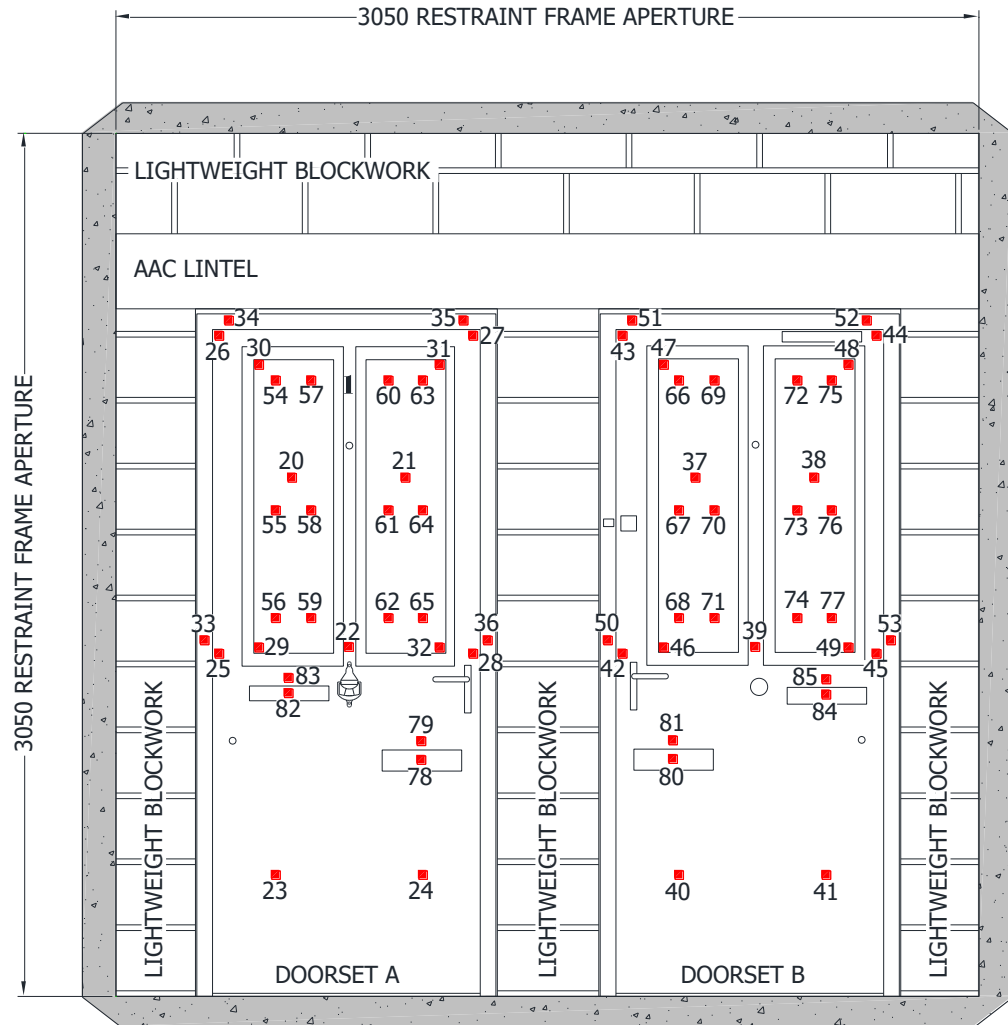
Test	Relevant Clause	Description	Comments
Operability	A.2.2 of EN 16034	25 cycles	25 cycles completed
Self closing	A.2.2 and A.4 of EN 16034	1 cycle	1 cycle completed
Final setting	10.1.4 of EN 1634-1: 2018	1 cycle	1 cycle completed

Ambient Temperature

The ambient air temperature in the vicinity of the test construction was 18°C at the start of the test with a maximum variation of +1°C during the test.

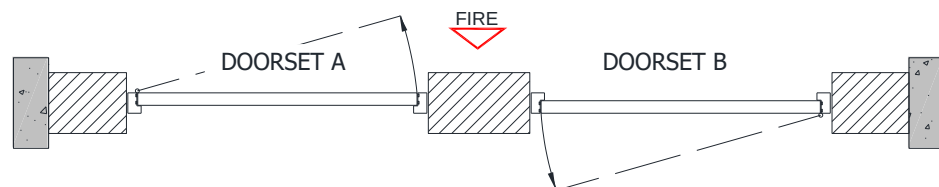
- Furnace** The furnace was controlled so that its mean temperature complied with the requirements of BS EN 1363-1: 2020 Clause 5.1 using nine plate thermometers, distributed over a plane 100 mm from the surface of the test construction.
- Thermocouples** Thermocouples were provided to monitor the unexposed surface of the specimens. The output of all instrumentation was recorded at no less than one minute intervals. The locations and reference numbers of the various unexposed surface thermocouples are shown in Figure 1.
- Radiation** Two water-cooled foil heat-flux meters were used to record the heat radiation from the specimens. The heat flux meters were positioned at a distance of 1 metre from the centre of the specimens.
- Furnace Pressure** After the first five minutes of testing and for the remainder of the test, the furnace atmospheric pressure was controlled so that it complied with the requirements of BS EN 1363-1: 2020, clause 5.2.1 The calculated pressure differential relative to the laboratory atmosphere at the top of the specimen was $16.3 (\pm 5)$ Pa between 5 and 10 minutes and $16.3 (\pm 3)$ Pa thereafter.
- During the test a furnace pressure above the limitations specified under Clause 5.2.1 of BS EN 1363-1: 2020 was recorded. As this represents more severe conditions than specified, the results achieved may still be accepted as valid – as outlined in Clause 5.7 of BS EN 1363-1: 2020.*
- Due to necessary adjustments of the gas and air input to control the furnace, pressures outside the specified tolerances were recorded sporadically at short intervals. As the pressure fluctuations recorded at those intervals did not represent the pressure conditions throughout the test, their effect on the test results can be disregarded.*

Test Specimen Drawings



■ POSITIONS OF THERMOCOUPLES

GENERAL ELEVATION OF TEST CONSTRUCTION
UNEXPOSED FACE



HORIZONTAL SECTION THROUGH TEST
CONSTRUCTION

Figure 1. Elevation of Thermocouple Positions – Unexposed Face

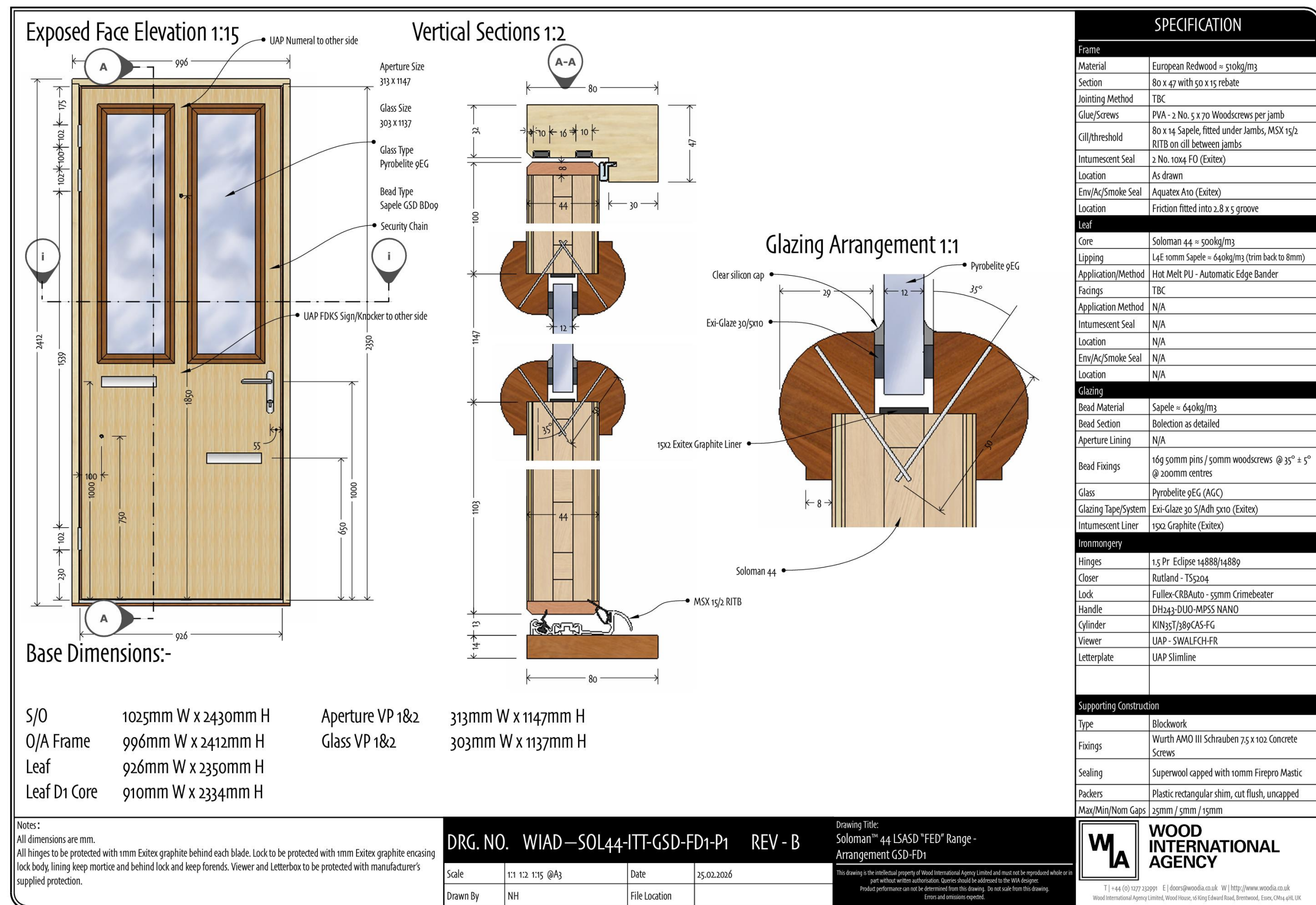


Figure 2. WIAD-SOL44-ITT-GSD-FD1-P1 REV-B – Page 1

Test date: 06/03/2026

Test standard: BS EN 1634-1:2014 + A1:2018

Test sponsor: Wood International Agency Ltd

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Controlled document date: 05 Aug 2025

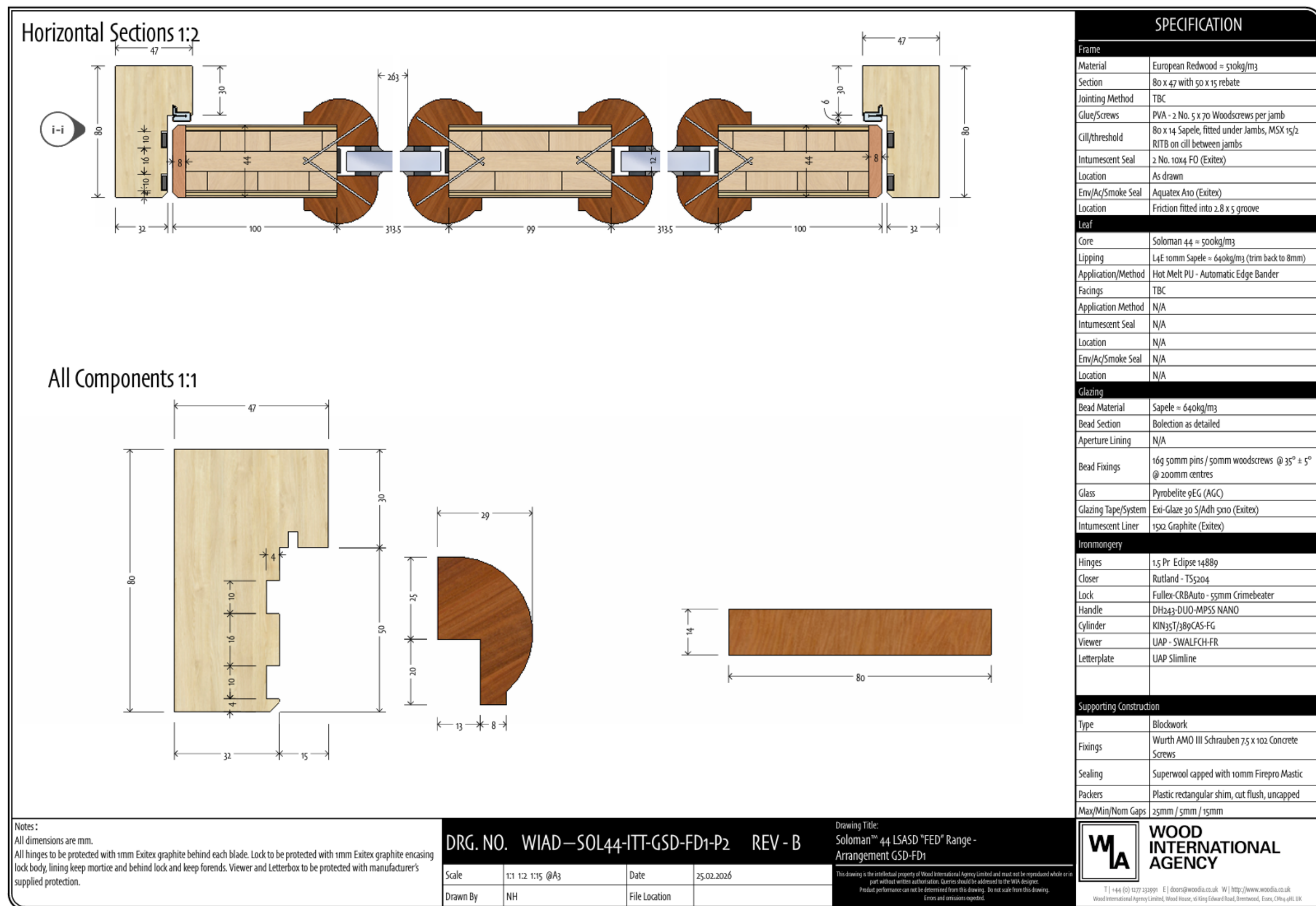


Figure 3. WIAD-SOL44-ITT-GSD-FD1-P1 REV-B – Page 2

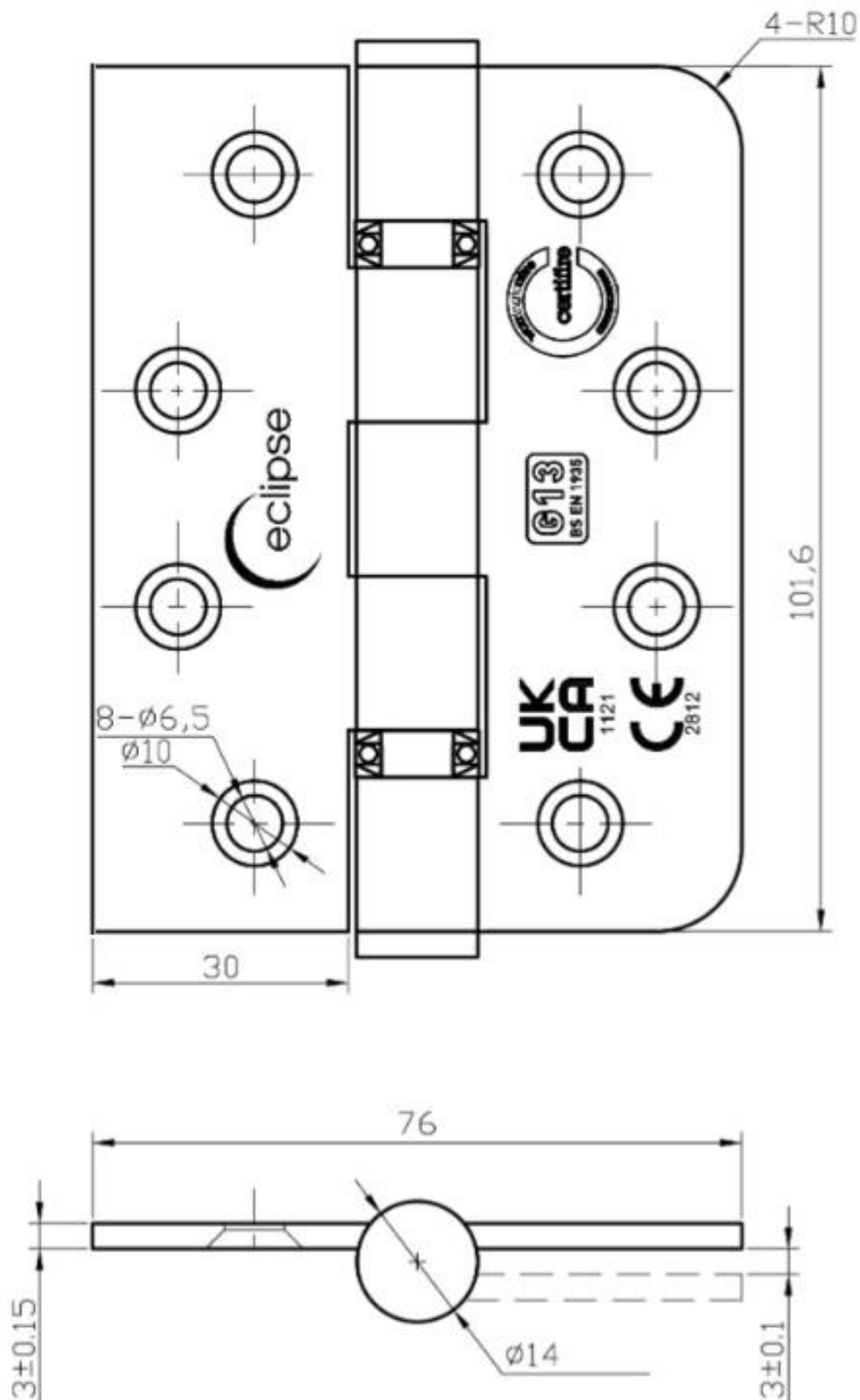


Figure 4. Item 18 – Eclipse 14888/14889 Hinge Drawing



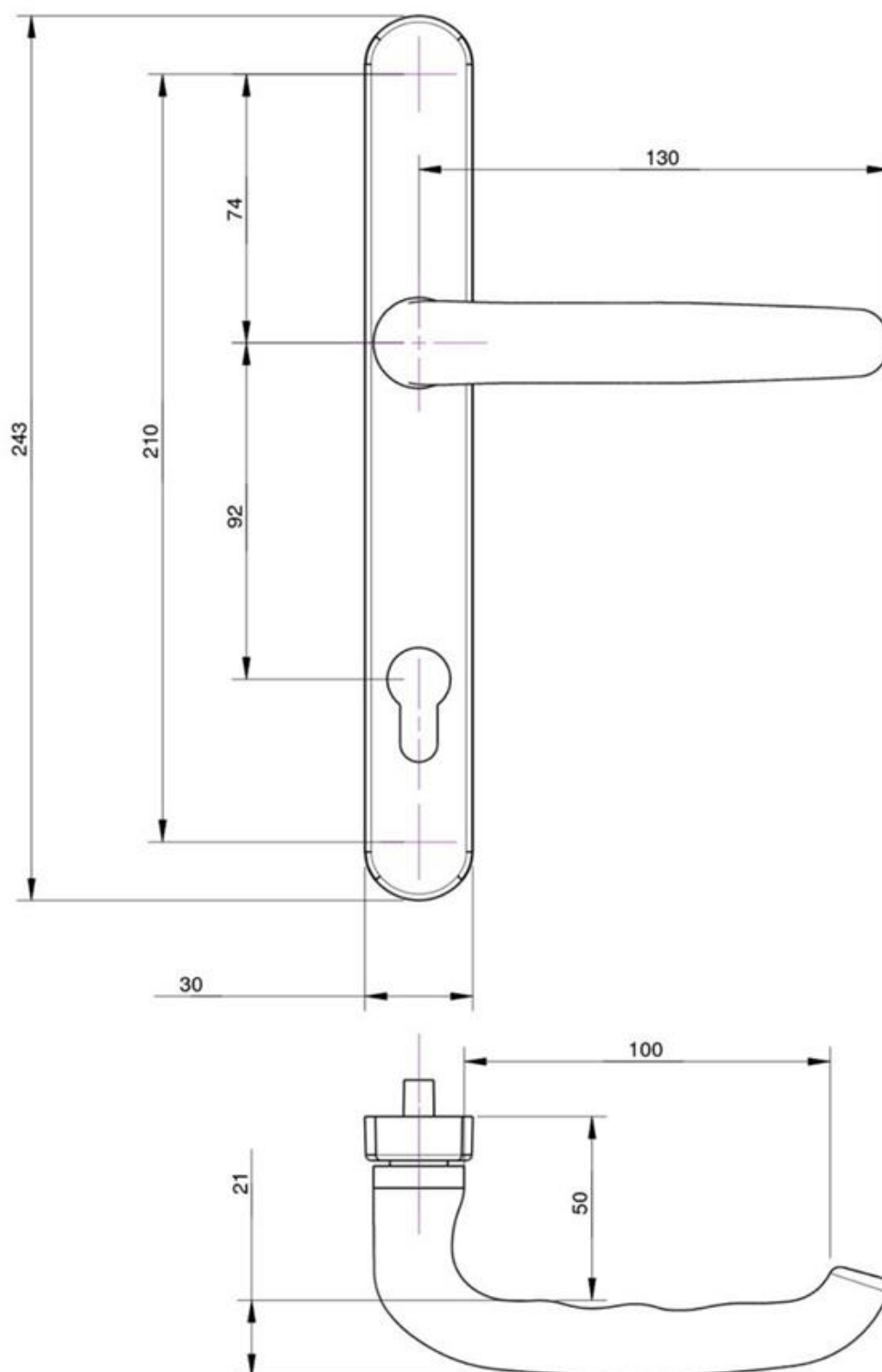


Figure 6. Item 22 – UAP DH243-DUO-MPSS NANO Lever Handle Drawing

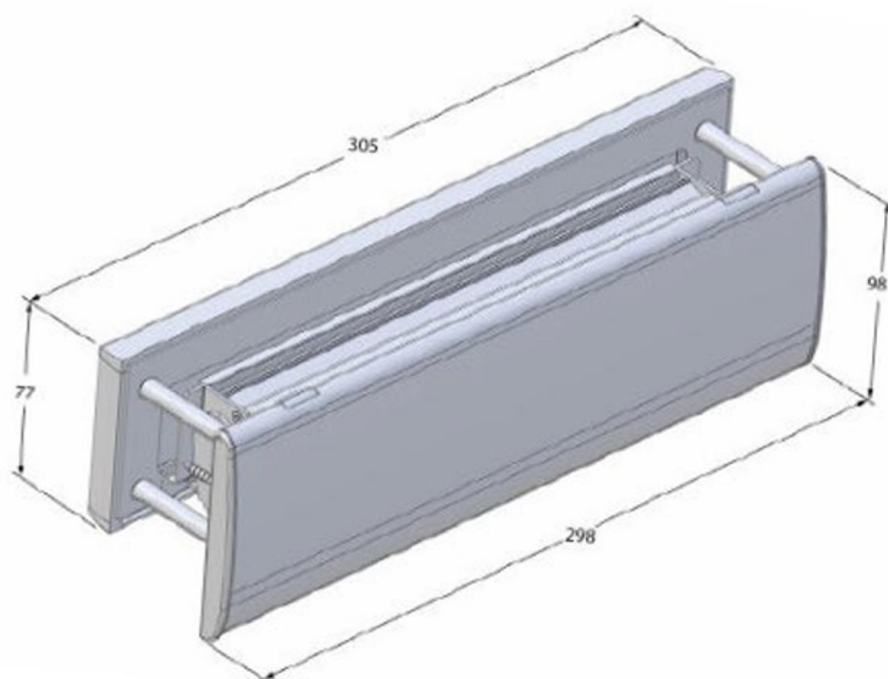


Figure 7. Item 24 – UAP Letter Plate Drawing

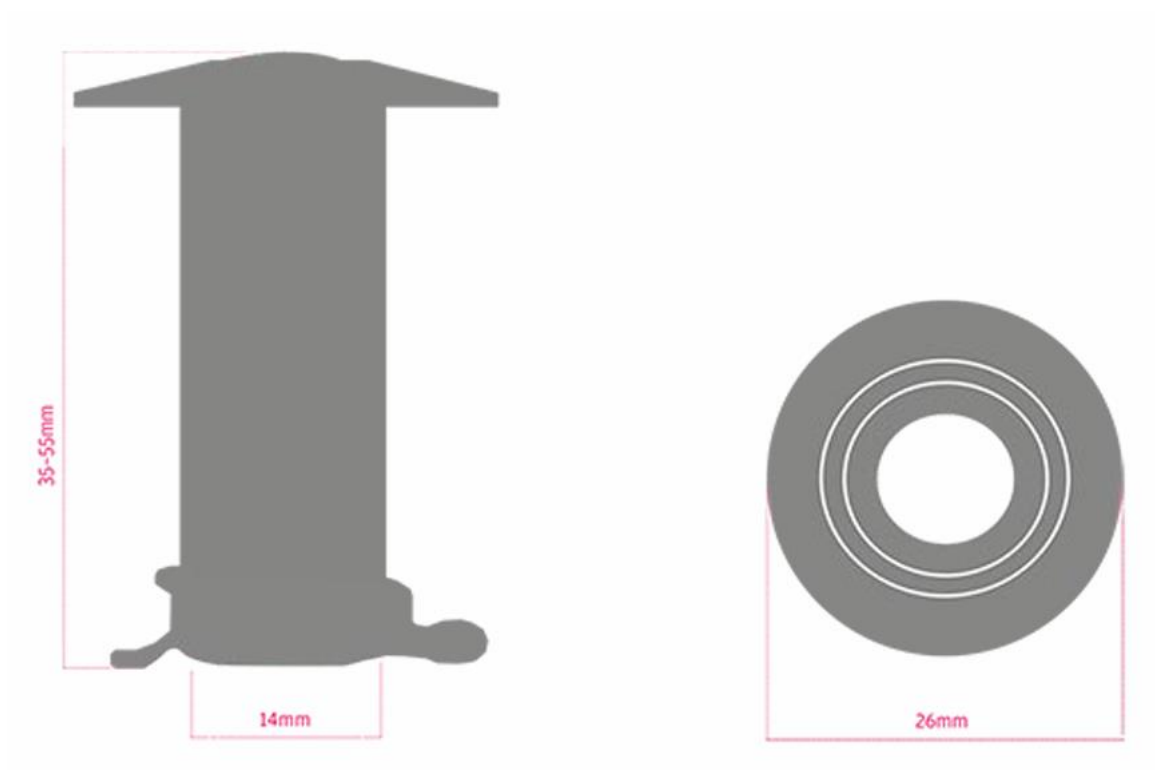


Figure 8. Item 25 – UAP SWALFCH-FR Door Viewer Drawing

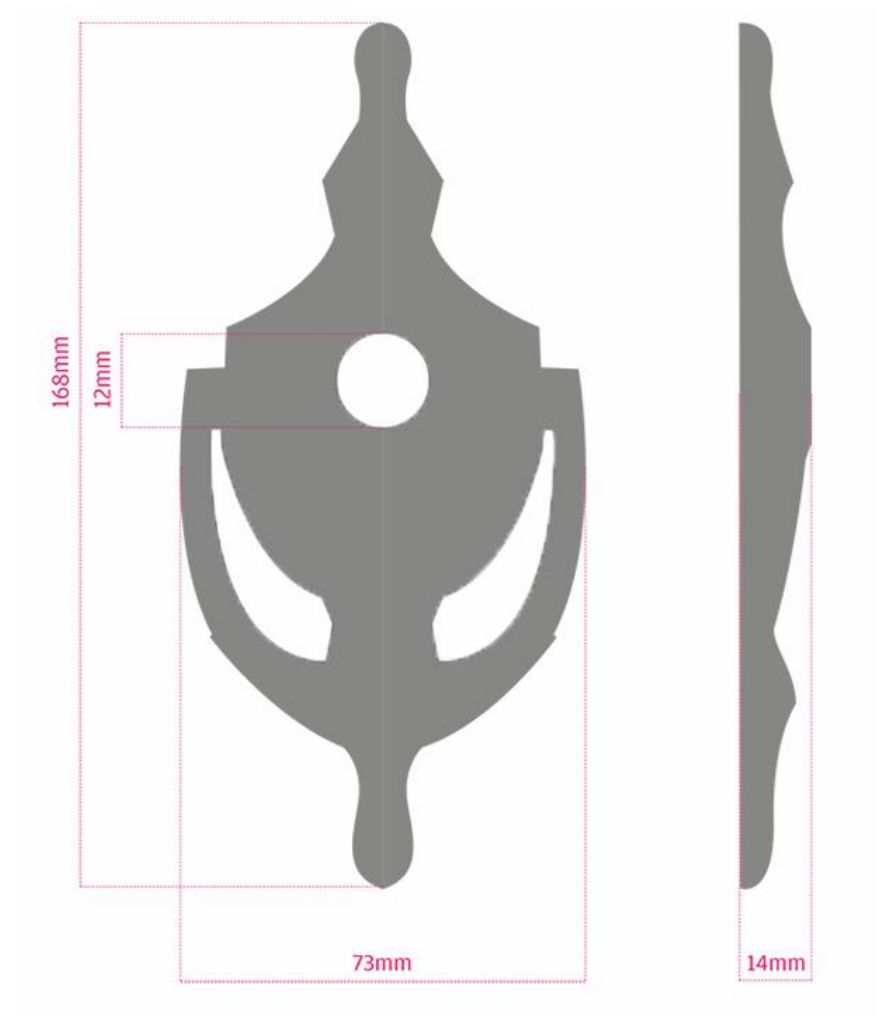


Figure 9. Item 27 – Door Knocker Drawing

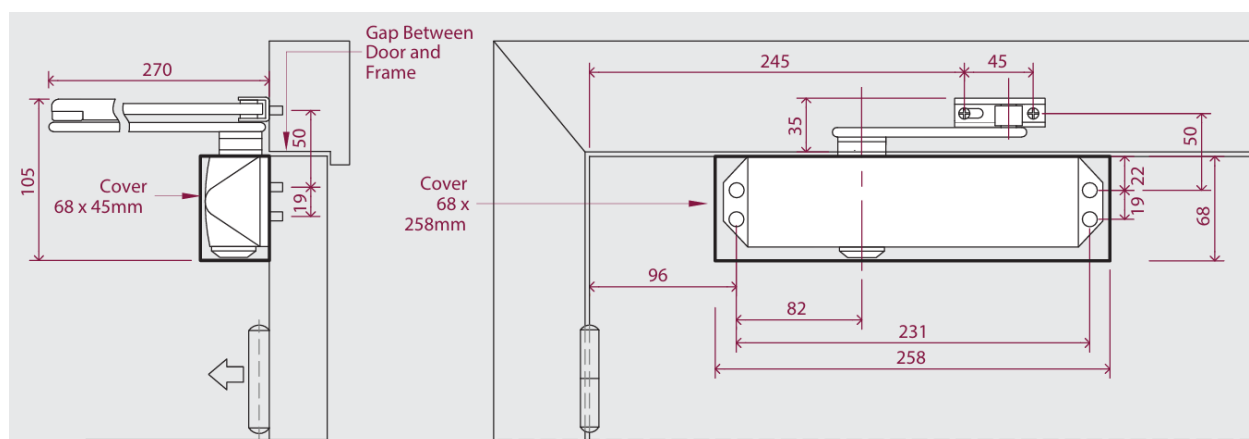


Figure 10. Item 30 – Rutland TS5204 Door Closer Drawing



Door Data Systems Ltd
203 Pointon Way, Stonebridge Cross
Hampton Lovett, WR9 0LW

Technical specification sheet Door Data Systems Tag

Type. Nail

Dim's 36mm x 6mm

Optional: Counter sink head 1.5 mm x 9mm or tapped in flush

Material Type.

ABS + Epoxy Resin - Colours available Black or Green

Frequency:

13.56Mhz NFC

I-CODE SLIX ISO15693

Memory Retention 50 years, write cycles 100,000.

Door Data Systems Product Code:

Black - DDS/nxp15693.NT Blk

Green - DDS/nxp15693.NT Gr (special order minimum quantities apply)



NFC (near field communication) tags work on a low frequency to enable hand held devices to read the tag and remain passive. The reading distance is typically 5 – 15mm from the tag.

Fitting Instructions.

Drill a 36mm hole with 6mm diameter drill, counter sinking optional, there is no need to glue / or fix the tag into the prepared hole.

When fitting to fire doors we recommend the data tag is fitted in a visible location so as to enable scanning. Fitting the data tag approx. halfway up on the hinge side, encourages the door to be opened when inspectors complete compliance inspection due to the near field reading of the data tag. The tag can be tapped into place with a soft head hammer.

Should a data tag fail to read (subject to the tag not having been damaged) in its normal working conditions the tag will be replaced FOC within the first 10 years. It will be the customer's responsibility to add the new tag to the door at their own costs.

The process of deleting an existing tag and assigning a new tag is via the web application and restricted to those with FM administrative authorisation. Once the existing tag details are removed the new tag can be assigned at the door via the mobile application.

Controlled document. Data tag 36.6 2022. V2

Figure 11. Item 31 –Door Data Systems Tag technical specification sheet

Schedule of Components

Table 1. details the schedule of components which describes the test specimen and lists the components used in the construction of the test specimen. These were provided by the test sponsor and surveyed by Warringtonfire.

All measurements were verified by Warringtonfire unless stated otherwise in the schedule of components. All components marked with an “**” have not been verified by Warringtonfire.

Table 1. Schedule of components

Door Frame

1. Door Frame	
Manufacturer	Guardian Shield Doors Ltd
Reference	N/A
Material	Engineered Red Grandis Head and Jambs
Density recorded at sampling visit	572 kg/m ³
Moisture content recorded at sampling visit	12.9%
Moisture content recorded at test lab	
Doorset A	10.4%
Doorset B	9.8%
Overall size	996 mm wide x 2412 mm high
Frame (Head)	80 mm wide x 47 mm thick with 50 mm wide x 15 mm rebate
Frame (Jambs)	80 mm wide x 47 mm thick with 50 mm wide x 15 mm rebate
Stop	Integral 30 mm x 15 mm
Jamb to Head jointing method, fixing detail and location	2 No. 5 mm x 70 mm Woodscrews
Stop to Frame jointing method, fixing detail and location	Stop is integral in the frame
Presence of Adhesives	No
2. Frame Fixing Method to Supporting Construction	
Supplier	Würth
Reference	0234730102
Type & material	Blue passivated galvanised steel countersunk milling head screw
Overall size	Ø7.5 mm x 102 mm
Spacing	From the bottom: 100 mm, 700 mm, 1300 mm, 1900 mm, 2265 mm
Does the fixing penetrate intumescent seal within frame reveal	No

Packing Material	Plastic
Packing Material Dimension	100 mm x 28 mm x 3 mm thick
Packing Material Location	Between door frame and supporting construction
3. Intumescent to Frame Reveal	
Quantity	2
Manufacturer	Exitex
Reference	10 x 4 Fire Only
Material	PVC encased Graphite
Overall section size	10 mm wide x 4 mm thick
Application method	Friction/Adhesive Tape
Location (relative to the opening face of the door leaf)	4 mm & 30 mm
Presence of Adhesives	Yes
Location	Rear of seal
Type	Adhesive tape
4. Smoke Seal to Frame Reveal	
Manufacturer	Exitex
Reference	Aquatex A10
Material	Polyurethane foam core with polyethylene outer skin and a polypropylene insert
Overall section size	10 mm x 15.5 mm
Application method	Friction fit
Location	Into groove 3 mm x 8 mm within stop upstand
Presence of Adhesives	No
5. Threshold	
Manufacturer	Exitex
Reference	MXS/15/2/TB
Material	Aluminium profile with a polyamide rolled thermal break
Overall section size	62 mm x 15 mm
Fixing method	Fitted to cill with 3 No stainless steel screws of 4 mm x16 mm countersunk head
6. Cill	
Manufacturer	Guardian Shield Doors Ltd
Material	Sapele 767 kg/m ³ 10.9%MC
Overall section size	80 mm x 14 mm
Fixing method	Screwed to underside of jambs with 2 No. 4 mm x 50 mm stainless steel screws at either jamb
Presence of sealants	No
Presence of Adhesives	No

Fire Stopping

7. Frame to Supporting Construction Fire Stopping Detail	
Manufacturer	Morgan Advanced Materials
Reference	Superwool Plus
Material	High temperature insulation wool
Thickness	25 mm, uncompressed
Density	96 kg/m3 (stated)
Fixing method	Compressed within the gap between the specimen and the restraint frame
8. Sealant to Fire Stopping Detail	
Manufacturer	Rockwool
Reference	FirePro Acoustic Intumescent Sealant
Material	Intumescent Acrylic Sealant
Overall dimension	Approximate 10 mm bead
Application method	Cartridge gunned around perimeter of the door frame to both faces

Door Leaf

9. Door Leaf	
Manufacturer (blank)	Wood International Agency Limited
Reference	Soloman 44
Quantity of leaves on doorset	1
Glazing location relative to the head and closing edge	100 mm from the head of the leaf and 100 mm from the closing edge of the leaf
Overall leaf size prior to trimming	1220/1000 mm wide x 2440 mm high x 44 mm thick
Overall leaf size supplied for testing	926 mm wide x 2350 mm high x 44 mm thick
Moisture recorded at test lab	
Doorset A	7.9%
Doorset B	7.8%

10. Core Element 1

Confidential information withheld, on file with Warringtonfire

11. Facings

Confidential information withheld, on file with Warringtonfire

12. Lippings / Edge Banding

Manufacturer	Guardian Shield Doors
Material	Sapele
Density recorded at sampling visit	680 kg/m ³
Moisture content at sampling visit	10%
Moisture recorded at test lab	
Doorset A	7.7%
Doorset B	8.1%
Overall size	Square section (deviation from drawing) 44 mm wide x 10 mm thick* note leaf trimmed back by 2 mm all around, lips finish at 8 mm. Vertical lipping overrun horizontals.
Fixing method	Automatic Edge Bander
Location	All 4 edges
Adhesives	
Manufacturer	Henkel
Type	Hot Melt PUR
Reference	Technomelt PUR 270/7,
Curing method	Chemical,
Application method	Edge Banding Machine
Presence of Mechanical Fixings	No

Glazing

13. Double glazed unit / Glass

Manufacturer / Supplier	AGC/Fireglass UK
Reference (Declaration of Performance)	Pyrobelite 9EG
Unit overall size	1137 mm high x 303 mm wide x12 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)	1147 mm high x 313.5 mm wide Note: aperture corners are rounded (13 mm diameter – 6.5 mm radius approx)
Sight size	263 mm x 1096 mm
Expansion allowance	3 mm all around + 2 mm intumescent liner

Presence of Timber aperture lining	No
Presence of Adhesives to Aperture lining	No
14. Beading	
Manufacturer	Guardian Shield Doors
Reference	BD09
Material	Sapele
Density recorded at sampling visit	655 kg/m ³
Moisture content at sampling visit	12 %
Moisture content recorded at test lab	
Doorset A	8.5%
Doorset B	8.3%
Overall size	29 mm x 45 mm
Fixing method, fixing material and sizes	Pneumatically fired pins, 16 g x 50 mm long PVA D4 adhesive applied on back of beading (contact with leaf) before application on glazing aperture.
Fixing distances from corners, centres and angle relative to the face of the glass	50 mm from corners, 200 mm centres and at 35 ° to the face of the glass
15. Intumescent Liner	
Manufacturer	Exitex
Reference	Exiglaze 60 minute liner
Material	Graphite
Overall size	15 mm x 2 mm
Fixing method	Adhered to glazing channel
16. Sealant applied to glass on the internal / external face of the leaf	
Manufacturer	Exitex
Reference	Exi-Glaze 30/5x10
Material	Closed cell foam tape
Overall size	10 mm x 5 mm (compressed to approximately 3 mm)
Application method	Adhered to bead upstand
17. Silicone applied against glazing and beading	
Manufacturer	Dow
Reference	799 EU
Material	Silicone
Location	On both doorsets on the glazing towards the hinge side on both sides
Application method	By hand, on gaps between beading and glass

Hardware

18. Hinges	
Supplier	Eclipse
Reference	14888/14889
Quantity	3 No. per leaf
Primary material	Stainless Steel
Type	Butt Hinge
Sizes (See Figure 4)	
knuckle	Ø14 mm x 105 mm high
blades	101.6 mm high x 30 mm wide (76 mm overall) x 3 mm thick
security pin	none
Fixings	Ø4.5 mm x 30 mm long
number off per blade	4
Position of each hinge relative to the head of the leaf	175 mm, 377 mm, 2018 mm
Details of intumescent protection	1 mm Exitex Graphite behind each blade
Interruptions to Intumescent within the frame reveal	One seal fully interrupted, second seal uninterrupted.
19. Lockset / Latch	
Manufacturer	UAP
Reference	Crimebeater Fullex 55 CRB ref SL16 Multipoint 3 Deadbolts, 55mm Backset
Material	Stainless steel
Overall sizes (See Figure 5)	
Central Lockcase	55 backset 227 mm x 73.5 mm (including forend thickness) x 15.3 mm case Between top lockcase and central lock case, there is a "auto lock activation case"
Upper and lower auto throw box	135 mm x 45.5 mm (including forend thickness) x 14.3 mm
Forend / face plate	Forend overall 1720 mm high x 20 mm wide x 2.5 mm thick
Central latch bolt	24 mm high x 10 mm wide x 10 mm projection
Central lock bolt	30 mm high x 6 mm wide x 13 mm projection
Top & bottom lock bolt	30 mm high x 6 mm wide x 20 mm projection
Fixing method	Stainless steel screws provided within the product kit
Operation of latch bolt	Engaged
Operation of lock bolt	Disengaged
Latch Forces	
Doorset A	16.9 N
Doorset B	13.7 N

Details of intumescent protection	1 mm graphite ref Fullex XL CRB kit 1.31.0857.0000.00 applied: - On both lateral faces of central and top and bottom lock cases - On all faces of "auto lock activation case" - None behind forends
Location of centre of the spindle relative to the bottom of the leaf	1000 mm
Location of centre of latch bolt relative to the bottom of the leaf	Centre of the latch bolt measures 1035 mm from the bottom of the leaf
Location of centre of central lock bolt relative to the bottom of the leaf	Centre of the latch bolt measures 935 mm from the bottom of the leaf
Location of centre of bottom lock bolt relative to the bottom of the leaf	Centre of the latch bolt measures 286 mm from the bottom of the leaf
Location of centre of top lock bolt relative to the bottom of the leaf	Centre of the latch bolt measures 1686 mm from the bottom of the leaf
20. Keeps	
Manufacturer	UAP
Reference	Crimebeater CL0112 Kit
Material	Steel
Centre Strike Plate and Keep	Positions (centres): Top keep 65.5 mm from top of leaf, 45 mm from top keep to auto lock activation case keep, 20.5 mm from auto lock activation case keep and central lock case, 104 mm from central keep to bottom keep, 30 mm from bottom keep to bottom of leaf.
Top and Bottom Strike Plate and Keep	Adjustable keeps
Overall sizes	
Centre Strike Plate	46 mm high x 19 mm wide x 2 mm thick
Centre Keep Plate	210 mm high x 20 mm wide x 2 mm thick
Top and Bottom Keep Plate	143 mm high x 20 mm wide x 2 mm thick
Fixing method	
Centre Strike Plate and Keep	2 No. 4 mm x 16 mm countersunk headscrews
Top and Bottom Strike Plate and Keep	2 No. 4 mm x 16 mm countersunk headscrews
Details of intumescent protection	No intumescent on auto lock activation case keep although graphite from intumescent strip being routed off is still present as not routed off completely. 1mm graphite ref Fullex XL CRB kit 1.31.0857.0000.00 applied below forends and around bodies of all 3 keeps.
Interruptions to Intumescent within the frame reveal	Partially interrupted

21. Cylinder with Thumbturn	
Manufacturer	UAP
Reference	KIN35T/389CAS-FG
Material	Chromed steel
Overall size	70 mm, cut aperture 3.5 cm x 2 cm
22. Lever Handle	
Manufacturer	UAP
Reference	DH243-DUO-MPSS NANO
Material	Stainless steel
Overall size (See Figure 7)	21 mm thick x 140 mm long x 71 mm projection
Fixing method, fixing material, sizes, quantity and location	2 x 8 cm (4.7 mm diameter) screws.
Details of intumescent protection	None
23. Escutcheon	
Manufacturer	UAP
Reference	DH243-DUO-MPSS NANO
Material	Stainless steel
Overall size	243 mm high x 30 mm wide 12 mm thick
24. Letter Plate	
Quantity	2 No.
Manufacturer	UAP
Reference	Soterian Slimline TS008-slim
Material	
Body	Plastic
Face plate	Aluminium
Overall size (See Figure 8)	
Body size	305 mm x 77 mm
Cut out size	Aperture 259 mm x 54 mm rounded corners
Fixing method	4 No. 40 mm screws on outside face, 4 No. 20 mm on inside face, 4 No. holes in leaf are 12 mm diameter
Presence of sealants	No
Location	1st: below vision panel, 1000 mm from leaf bottom, 100 mm from edge 2nd: 100 mm from edge of leaf, 650 mm from leaf bottom, below second glazing aperture
Details of intumescent protection	Incorporated within product from supplier, graphite material lining body and around fitting hollow threaded rods

25. Door Viewer	
Quantity	2 No. per doorset
Manufacturer	UAP
Reference	SWALFCH-FR
Material	Brass
Cut Out Diameter	Ø15 mm
Overall sizes (See Figure 9)	
Body diameter	Ø14 mm x 35-55 mm long
Diameter at Internal Face	Ø 22 mm
Diameter at External Face	Ø 26 mm
Fixing method	Threaded through leaf
Location	1850 mm from the bottom of the leaf and central horizontally on the leaf 750 mm from the bottom of the leaf and 100 mm from the closing edge of the leaf
Details of intumescent protection	1 mm Kerafix Flextrem 100 The apertures in leaf are lined with a graphite based intumescent material with self-adhesive on one side
26. Signage	
Manufacturer	Fire Door Keep Shut
Material	Steek
Overall size	80 mm diameter
Location	1020 mm from bottom of door leaf and central horizontally on door leaf
Fixing method	2 No. 15 mm stainless steel screws
Presence of adhesives	No
Details of intumescent protection	No
27. Door Knocker	
Manufacturer	UAP
Reference	Nanocoast V6MPSS
Material	Stainless steel
Overall size (See Figure 10)	167 mm high x 71 mm wide x 13 mm thick
Location	1000 mm from bottom of door leaf and central horizontally on door leaf
Fixing method	Aligned to centreline of top letterplate, self-adhesive and 2 stainless steel screws provided with kit
Intumescent protection	No

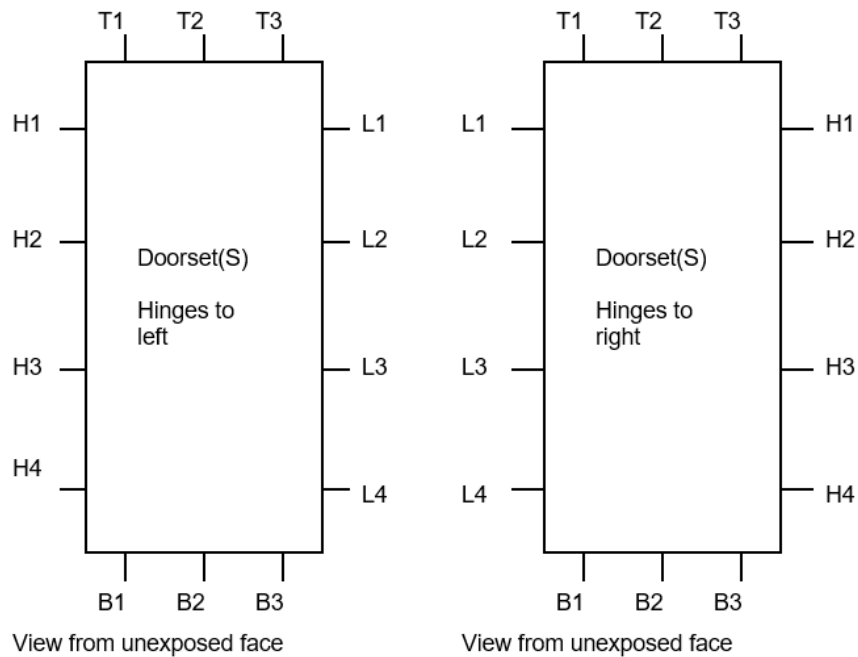
28. Security Chain	
Manufacturer	UAP
Reference	TS003 on inside face only
Face plate to leaf	Steel
Overall size (See Figure 11)	
Face plate to leaf	42 mm high x 42 mm wide x 3 mm thick
Face plate to frame	30 mm high x 10 mm wide x 0.5 mm thick
Location	1590 mm from bottom of door leaf
Fixing method	4 No. 40 mm long steel screws
Presence of adhesives	No
Details of intumescent protection	No
29. Numerals	
Manufacturer	TRMPSS Nanocoast
Reference	TRMPSS Nanocoast
Material	Steel
Overall size	74 mm high x 43 mm wide x 1 mm thick
Location	240 mm from the head of the frame and centreline
Fixing method	2 No. 20 mm long steel screws provided in kit
Details of intumescent protection	No
Presence of Adhesives	No
30. Door Closer	
Manufacturer	Rutland
Reference	TS5204
Material	Polished nickel
Configuration	Projected arm
Overall size (See Figure 12)	
Body	58 mm high x 250 mm wide x 42 mm deep
Cover	68 mm high x 258 mm wide x 45 mm deep
Fixing method	4 No. screws to body, Ø4 mm x 15 mm length 2 No. screws to bracket, Ø4 mm x 15 mm length
Average Closer Forces Doorset A	
Opening Force	29.0 N
Closing Force	19.5 N
Average Closer Forces Doorset B	
Opening Force	31.1 N
Closing Force	19.0 N
Distance From hinge	750 mm

31. Digital Plug	
Manufacturer	Door Data Systems Ltd
Reference	Door Data Systems Tag
Material	ABS & Epoxy Resin
Overall Size	9 mm head diameter x 36 mm length, Figure 11 for details
Fixing method	1 No. 7 mm diameter x 37 mm deep hole on hinge sides applied for fitting the digital plug. Location is central between 1 st and 2 nd hinge.

Supporting Construction

32. AAC Lintel	
Type	Steel reinforced concrete lintel
Material	Steel reinforced autoclaved aerated concrete
Density	550 ~ 650 kg/m ³
Overall size	150 mm wide x 250 mm high x 3000 mm long
33. Lightweight Blockwork	
Manufacturer	THERMALITE
Reference	THERMALITE Shield
Material	Lightweight concrete blocks
Thickness	150 mm wide x 215 mm high x 440 mm long
Density	600 kg/m ³ (measured)
Fixing Method	Ordinary sand/cement mortar, mix 3:1

Doorset clearance gaps



Doorset A (mm)					
Hinge Side	Primary	Leaf to Stop	Leading Edge	Primary	Leaf to Stop
H1	3.5	5.2	L1	3.2	7.7
H2	2.8	5.2	L2	2.5	7.7
H3	2.9	6.5	L3	2.9	7.8
H4	3.2	7.4	L4	3.1	7.7
Mean	3.1		Mean	2.9	
Max	3.5		Max	3.2	
Min	2.8		Min	2.5	
Top edge	Primary	Leaf to stop	Threshold	Primary	
T1	3.0	7.4	B1	2.3	
T2	3.7	6.1	B2	1.7	
T3	3.8	6.1	B3	2.2	
Mean	3.5		Mean	2.1	
Max	3.8		Max	2.3	
Min	3.0		Min	1.7	

Doorset B (mm)					
Hinge Side	Primary	Leaf to Stop	Leading Edge	Primary	Leaf to Stop
H1	3.8	8.5	L1	3.1	6.4
H2	3.9	8.5	L2	2.9	6.5
H3	3.0	8.7	L3	3.3	6.1
H4	3.8	9.3	L4	3.0	5.4
Mean	3.6		Mean	3.1	
Max	3.9		Max	3.3	
Min	3.0		Min	2.9	
Top edge	Primary	Leaf to stop	Threshold	Primary	
T1	3.7	6.6	B1	2.4	
T2	3.6	6.3	B2	2.4	
T3	3.1	6.3	B3	1.8	
Mean	3.5		Mean	2.2	
Max	3.7		Max	2.4	
Min	3.1		Min	1.8	

Test Observations

Time All observations are from the unexposed face unless noted otherwise.

mins secs

00	00	The test commences.
00	54	Intense smoke release from specimen.
01	32	Glazing discoloured milky on Doorset B.
02	03	Smoke release from letter plate Doorset A leading edge Doorset B.
02	42	Doorset B glazing discoloured milky and opaque.
03	02	Audible cracking heard for specimens.
04	13	Intense Smoke release from all letter plates.
05	32	Brown discolouration on all glazing panels – yellow discolouration below the letter plate on both doorsets with moisture
08	32	Brown discolouration above both letter plates.
09	13	Intense smoke release from all specimen.
12	23	Brown/black discolouration above all letter plates has spread onto bottom glazing beading on both doorsets.
13	32	Audible cracking intense – heard from specimens.
15	42	Burn through on both door leaf letter plates.
16	49	Top right corner Doorset A discoloured black deflecting inwards.
18	32	Black discolouration above viewing ports
22	35	Intumescent pushed out of top letter plate Doorset A and intumescent melted on top letter plate Doorset B.
24	32	Pieces melting and falling off behind frame.
28	20	Top right Doorset A heavily charred – beginning to burn through
30	03	Doorset glazing cracked.

Time All observations are from the unexposed face unless noted otherwise.

mins secs

32	51	Bottom right letter plate Doorset A spreading up.
34	02	Intumescent pushed out left glazing panel Doorset B.
37	32	All intumescent pushed out glazing panels.
42	13	Discolouration from left glazing on Door Leaf A.
47	03	Cotton pad applied top right glazing.
48	02	Sustained flaming top right glazing Doorset A. Sustained flaming integrity failure is deemed to have occurred. Cotton pad integrity failure is deemed to have occurred.
48	18	Sustained flaming top right glazing Doorset B. Sustained flaming integrity failure is deemed to have occurred. Cotton pad integrity failure is deemed to have occurred.
48	45	Test stopped at the request of the test sponsor.

Test Photographs

The exposed face
of the specimen
prior to testing



SC2611ST-2

SC2611ST-2

1

SC2611ST-2

SC2611ST-2

4-3-26

L R1

SC2611ST-3

SC2611ST-3

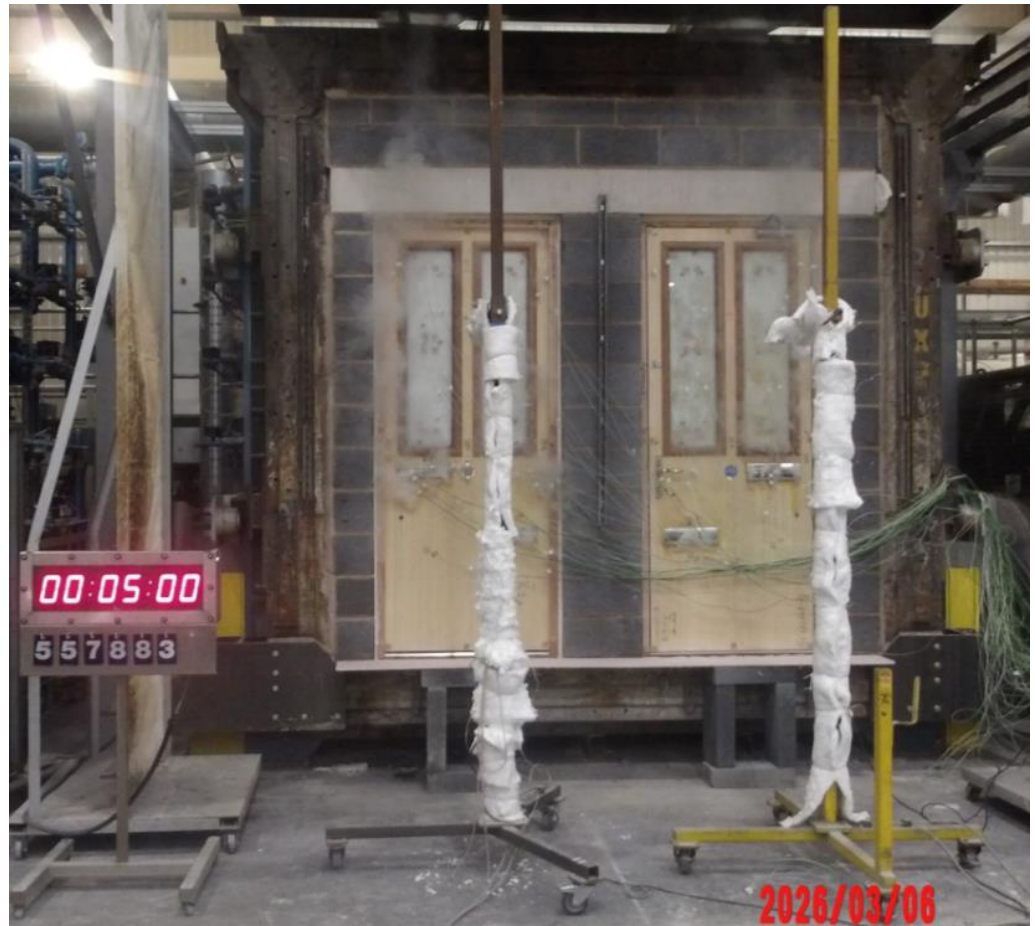
4-3-26

L R1

SC2611ST-3

SC2611ST-3

The unexposed face of the specimen after a test duration of 5 minutes



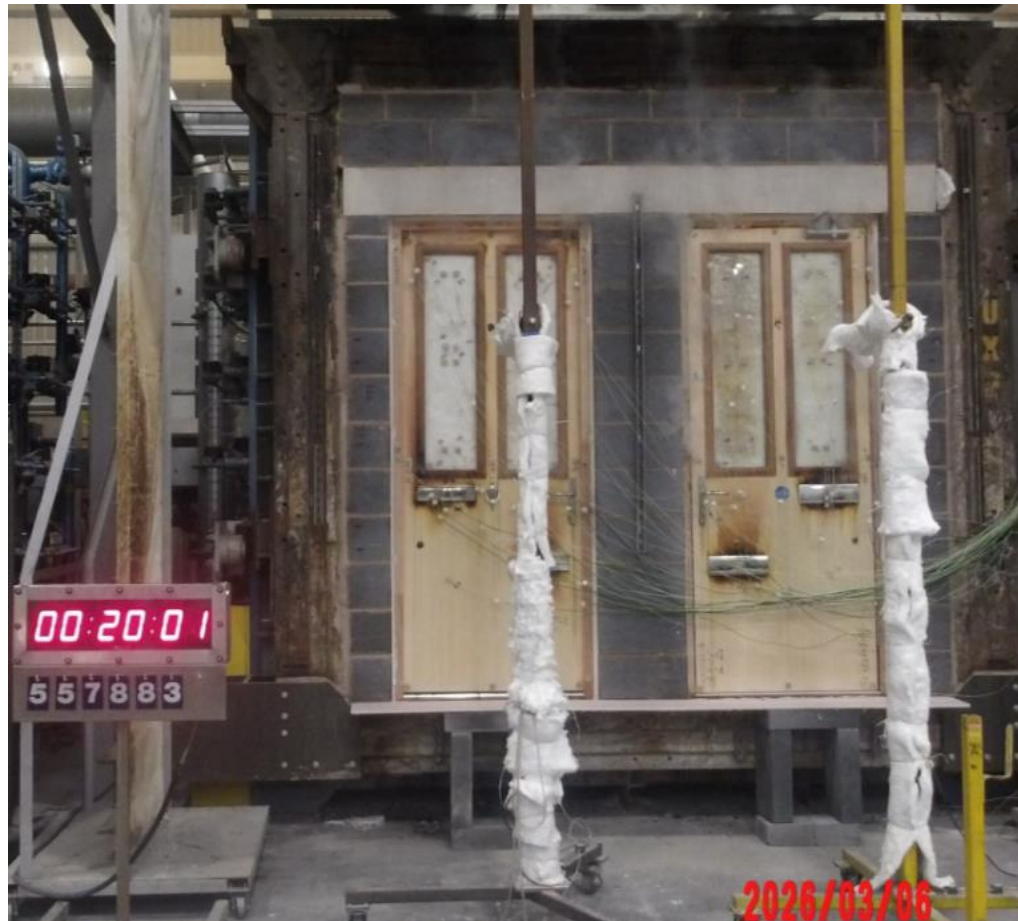
The unexposed face of the specimen after a test duration of 10 minutes



The unexposed face of the specimen after a test duration of 15 minutes



The unexposed face of the specimen after a test duration of 20 minutes



The unexposed face of the specimen after a test duration of 25 minutes



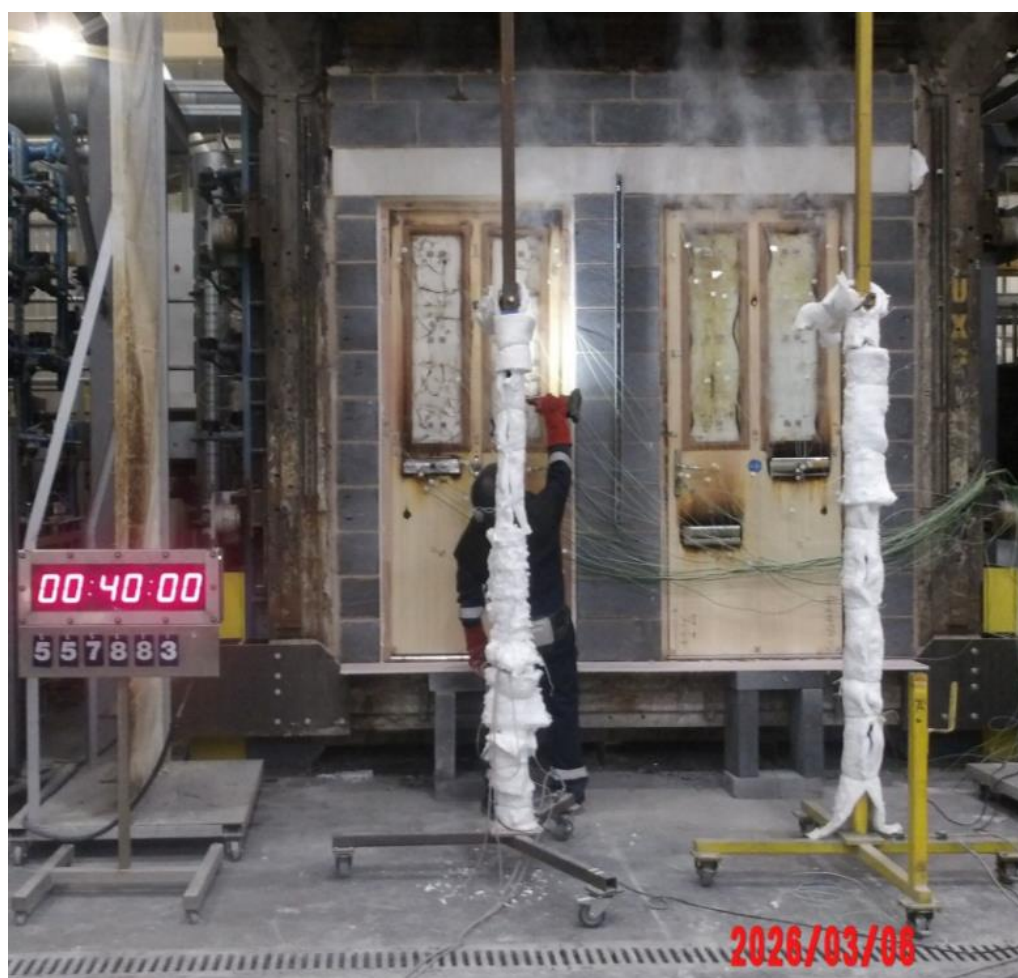
The unexposed face of the specimen after a test duration of 30 minutes



The unexposed face of the specimen after a test duration of 35 minutes



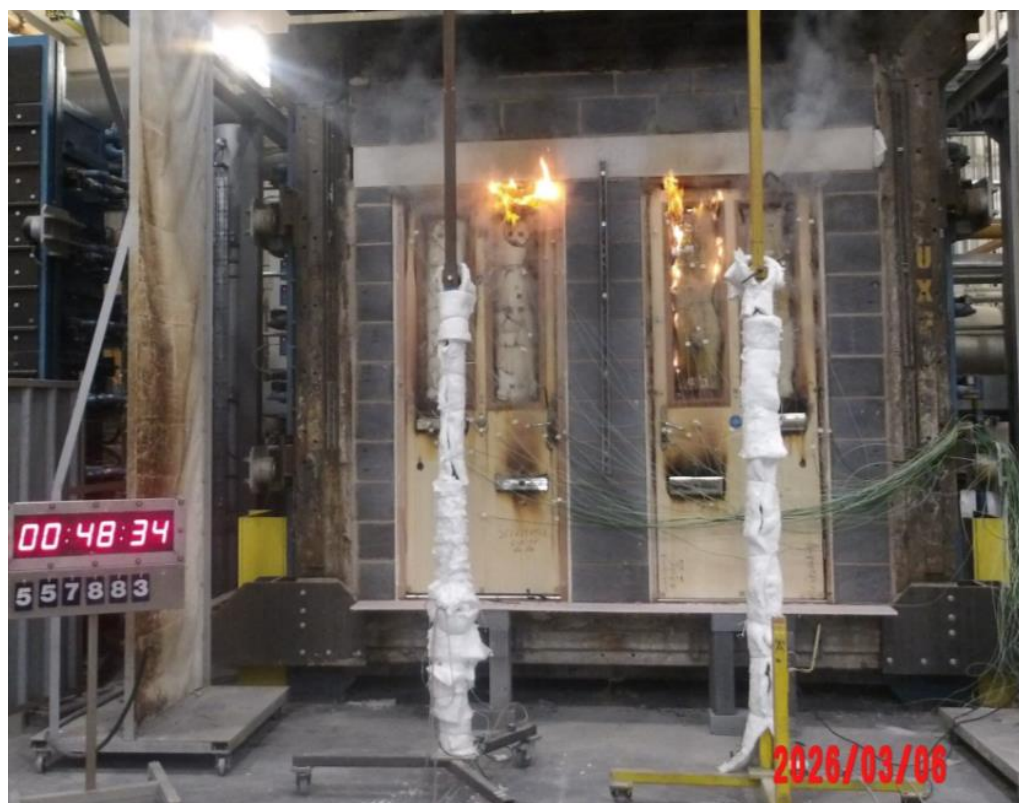
The unexposed face of the specimen after a test duration of 40 minutes



The unexposed face of the specimen after a test duration of 45 minutes



The unexposed face of the specimen after a test duration of 48 minutes showing sustained flaming on both doorsets



The exposed face
of the specimen
immediately after
the test



Test Data

Mean furnace temperature, together with the temperature/time relationship specified in BS EN 1363-1: 2020

Time Mins	Specified Furnace Temperature Deg. C	Actual Furnace Temperature Deg. C
0	20	20
2	445	533
4	544	489
6	603	595
8	645	676
10	678	712
12	705	708
14	728	681
16	748	738
18	766	796
20	781	769
22	796	810
24	809	797
26	820	820
28	831	830
30	842	843
32	851	855
34	860	858
36	869	863
38	877	870
40	885	878
42	892	886
44	899	891
46	906	903
48	912	918

Individual and mean temperatures recorded on the unexposed surface of the Doorset A

Time Mins	T/C Number 20 Deg. C	T/C Number 21 Deg. C	T/C Number 22 Deg. C	T/C Number 23 Deg. C	T/C Number 24 Deg. C	Mean Temp Deg. C
0	21	20	19	19	17	19
2	48	58	19	19	14	32
4	99	100	19	19	15	50
6	103	106	20	19	*	52
8	110	119	20	19	*	54
10	125	115	21	19	58	68
12	121	115	22	20	47	65
14	117	118	24	22	39	64
16	116	124	26	24	38	66
18	121	133	28	27	40	70
20	132	148	31	30	43	77
22	150	167	34	33	45	86
24	168	178	37	36	47	93
26	183	191	40	40	49	101
27	186	197	42	42	50	103
28	189	206	44	44	51	107
30	203	227	48	50	53	116
32	221	251	52	54	56	127
34	243	276	57	58	58	138
36	262	297	63	63	62	149
38	280	313	70	68	66	159
40	295	325	79	74	70	169
42	307	334	85	80	74	176
44	317	340	89	86	76	182
46	324	346	94	92	77	187
48	332	353	99	95	78	191

***TC Malfunction**

Individual temperatures recorded on the door leaf 100 mm away from the edges on Doorset A

Time Mins	T/C Number 29 Deg. C	T/C Number 30 Deg. C	T/C Number 31 Deg. C	T/C Number 32 Deg. C
0	21	23	20	20
2	40	40	42	47
4	78	86	84	88
6	100	112	107	113
8	108	119	116	123
10	114	120	119	125
12	120	120	122	127
14	126	118	124	130
16	118	123	126	135
18	118	124	131	142
20	123	131	138	150
22	129	139	145	159
24	136	149	153	170
26	143	167	165	182
28	151	178	177	196
29	156	183	184	202
30	161	190	192	210
32	173	202	209	228
34	186	216	232	251
36	203	233	258	277
38	225	253	292	310
40	252	274	333	348
42	283	298	382	393
44	317	330	474	430
46	347	367	551	456
48	384	415	609	501

Individual temperatures recorded on the door leaf 25 mm away from the edges on Doorset A

Time Mins	T/C Number 25 Deg. C	T/C Number 26 Deg. C	T/C Number 27 Deg. C	T/C Number 28 Deg. C
0	18	19	19	19
2	20	24	22	19
4	19	26	22	19
6	21	29	23	20
8	22	32	29	22
10	23	35	40	30
12	24	38	50	33
14	25	44	63	35
16	33	51	62	38
18	35	56	65	46
20	37	60	72	50
22	40	61	83	55
24	43	62	90	59
26	46	64	92	63
28	49	65	88	66
30	53	67	88	71
32	56	70	84	76
34	60	73	82	81
36	64	77	86	87
38	68	82	90	93
40	75	90	95	99
42	84	98	102	102
44	91	107	109	107
46	96	111	110	115
48	98	118	115	129

Individual temperatures recorded on the Door frame A

Time Mins	T/C Number 33 Deg. C	T/C Number 34 Deg. C	T/C Number 35 Deg. C	T/C Number 36 Deg. C
0	17	19	19	17
2	18	20	19	17
4	18	21	20	17
6	18	22	21	18
8	18	22	23	19
10	18	24	27	20
12	18	27	30	20
14	18	29	33	20
16	19	31	36	20
18	19	34	38	20
20	19	35	39	21
22	20	36	41	22
24	20	37	41	22
26	21	38	41	23
28	22	39	40	24
30	23	40	41	26
32	24	41	42	27
34	26	43	43	28
36	27	44	45	30
38	29	46	48	31
40	30	48	51	32
42	32	51	55	34
44	33	55	62	35
46	35	58	68	37
48	36	64	76	40

Individual and mean temperatures recorded on the unexposed surface of the Doorset B

Time Mins	T/C Number 37 Deg. C	T/C Number 38 Deg. C	T/C Number 39 Deg. C	T/C Number 40 Deg. C	T/C Number 41 Deg. C	Mean Temp Deg. C
0	17	21	20	18	19	19
2	*	53	21	20	19	28
4	82	87	21	19	19	46
6	96	104	22	19	19	52
8	99	119	22	19	19	56
10	94	116	24	31	19	57
12	90	114	25	28	19	55
14	87	112	25	24	20	54
16	86	113	26	25	22	54
18	88	117	29	27	24	57
20	96	125	31	31	27	62
22	106	136	34	35	30	68
24	112	150	37	39	33	74
26	118	161	41	42	36	80
28	127	171	44	47	40	86
30	139	185	48	51	44	93
31	139	193	50	53	46	96
32	138	200	52	55	48	99
34	141	209	57	59	52	104
36	152	222	62	63	56	111
38	164	234	67	68	61	119
40	175	250	72	74	67	128
42	181	265	78	81	74	136
44	186	277	84	89	81	143
46	190	290	89	94	90	151
48	192	302	93	96	96	156

***TC Malfunction**

Individual temperatures recorded on the door leaf 100 mm away from the edges on Doorset B

Time Mins	T/C Number 46 Deg. C	T/C Number 47 Deg. C	T/C Number 48 Deg. C	T/C Number 49 Deg. C
0	20	21	21	20
2	39	51	45	37
4	73	88	88	71
6	87	105	109	93
8	101	114	118	105
10	110	121	124	114
12	110	127	125	117
14	112	129	128	119
16	116	132	131	121
18	120	138	138	127
20	127	145	144	134
22	134	155	150	142
24	142	166	159	150
26	150	177	170	157
28	159	188	182	165
30	171	199	195	174
31	177	206	202	178
32	179	212	210	181
34	184	227	216	188
36	202	250	232	198
38	222	279	251	212
40	247	310	276	229
42	272	345	304	249
44	299	386	334	273
46	316	431	384	302
48	327	497	437	331

Individual temperatures recorded on the door leaf 25 mm away from the edges on Doorset B

Time Mins	T/C Number 42 Deg. C	T/C Number 43 Deg. C	T/C Number 44 Deg. C	T/C Number 45 Deg. C
0	18	19	20	19
2	18	21	20	19
4	19	26	20	19
6	19	28	21	20
8	20	29	22	20
10	21	31	24	20
12	23	32	26	21
14	30	35	28	22
16	36	38	30	22
18	48	42	35	25
20	45	46	39	28
22	53	54	43	31
24	52	59	46	34
26	54	62	49	37
28	58	63	53	40
30	61	64	57	43
32	64	65	60	47
34	69	67	63	50
36	74	69	67	54
38	80	71	69	58
40	84	73	73	62
42	89	78	75	66
44	92	83	79	73
46	94	86	84	82
48	95	94	91	87

Individual temperatures recorded on the Door Frame B

Time Mins	T/C Number 50 Deg. C	T/C Number 51 Deg. C	T/C Number 52 Deg. C	T/C Number 53 Deg. C
0	17	17	18	17
2	17	28	18	17
4	17	28	19	17
6	18	27	20	17
8	18	27	21	17
10	19	28	23	17
12	23	30	23	17
14	32	34	23	17
16	36	38	24	18
18	41	39	28	22
20	43	44	37	27
22	42	46	36	28
24	45	50	39	28
26	46	48	37	30
28	45	48	38	32
30	46	49	40	35
32	47	53	42	37
34	48	56	44	41
36	48	59	46	48
38	51	61	48	51
40	53	66	50	53
42	56	70	52	56
44	58	72	55	59
46	61	76	58	61
48	65	82	62	62

Individual and mean temperatures recorded on the left vision panel of Doorset A

Time Mins	T/C Number 54 Deg. C	T/C Number 55 Deg. C	T/C Number 56 Deg. C	T/C Number 57 Deg. C	T/C Number 58 Deg. C	T/C Number 59 Deg. C	Mean Temp Deg. C
0	20	20	20	21	20	21	20
2	52	49	50	53	51	53	51
4	101	100	101	101	99	102	101
6	105	104	109	104	104	105	105
8	110	109	116	109	113	111	111
10	123	122	126	120	127	123	124
12	115	121	116	131	121	123	121
14	113	117	112	127	116	121	118
16	112	115	111	120	114	122	116
18	116	118	114	120	118	132	120
20	126	126	124	127	128	146	130
22	143	139	139	136	144	162	144
23	153	145	149	141	152	171	152
24	164	155	162	148	161	180	162
26	185	169	181	163	177	196	179
28	200	180	196	180	185	211	192
30	213	192	209	197	197	232	207
32	228	205	226	215	214	254	224
34	245	226	244	238	236	277	244
36	262	248	261	259	259	297	264
38	275	268	276	277	277	315	281
40	287	284	288	292	293	330	296
42	296	297	298	305	305	342	307
44	304	308	306	315	316	351	317
46	310	316	311	324	326	358	324
48	316	323	316	333	334	362	331

Individual and mean temperatures recorded on the right vision panel of Doorset A

Time Mins	T/C Number 60 Deg. C	T/C Number 61 Deg. C	T/C Number 62 Deg. C	T/C Number 63 Deg. C	T/C Number 64 Deg. C	T/C Number 65 Deg. C	Mean Temp Deg. C
0	24	23	24	24	24	23	24
2	62	61	60	66	59	59	61
4	105	105	106	105	102	102	104
6	112	111	112	110	109	107	110
8	123	113	122	124	119	116	120
10	113	112	118	114	117	117	115
12	112	113	118	112	119	115	115
14	112	115	119	111	121	116	116
16	115	121	125	115	127	125	121
18	123	130	136	124	136	141	132
20	139	144	150	140	151	159	147
21	151	153	157	151	159	167	156
22	163	161	166	162	165	174	165
24	182	175	181	179	179	188	181
26	194	189	196	193	196	203	195
28	210	204	212	208	216	223	212
30	233	224	232	226	238	241	232
32	257	246	255	247	262	260	255
34	280	268	277	267	284	277	276
36	299	285	296	282	304	293	293
38	313	299	312	294	319	307	307
40	323	309	326	304	331	323	319
42	333	318	339	312	340	348	332
44	341	324	353	319	348	383	345
46	350	331	368	328	355	420	359
48	370	339	384	342	365	438	373

Individual and mean temperatures recorded on the left vision panel of Doorset B

Time Mins	T/C Number 66 Deg. C	T/C Number 67 Deg. C	T/C Number 68 Deg. C	T/C Number 69 Deg. C	T/C Number 70 Deg. C	T/C Number 71 Deg. C	Mean Temp Deg. C
0	24	21	25	25	23	23	24
2	59	-10	56	60	53	54	45
4	93	88	88	94	87	88	90
6	115	103	108	116	105	107	109
8	119	109	117	120	115	117	116
10	119	102	113	119	114	114	114
12	117	97	112	119	114	112	112
14	122	93	113	122	114	112	113
16	131	92	119	129	116	115	117
18	145	94	126	139	123	121	125
20	159	100	136	151	134	131	135
22	171	111	144	164	146	142	146
24	186	121	152	175	155	149	156
25	195	124	158	183	161	153	162
26	203	127	164	191	166	158	168
28	202	134	177	202	181	171	178
30	214	145	184	213	197	183	189
32	227	157	198	226	208	200	203
34	243	156	204	241	219	207	212
36	260	167	217	258	235	222	227
38	278	181	233	277	255	238	244
40	295	194	253	294	274	257	261
42	313	203	268	311	291	278	277
44	332	214	289	326	307	295	294
46	351	226	304	345	332	309	311
48	375	240	315	369	360	319	330

Individual and mean temperatures recorded on the right vision panel of Doorset B

Time Mins	T/C Number 72 Deg. C	T/C Number 73 Deg. C	T/C Number 74 Deg. C	T/C Number 75 Deg. C	T/C Number 76 Deg. C	T/C Number 77 Deg. C	Mean Temp Deg. C
0	24	21	24	20	25	24	23
2	56	-9	48	-13	51	47	30
4	90	88	82	95	88	84	88
6	109	98	96	106	105	99	102
8	121	107	110	107	119	113	113
10	119	102	115	99	117	119	112
12	117	98	113	96	115	118	110
14	118	95	111	95	114	116	108
16	122	95	110	98	115	113	109
18	130	98	112	102	119	113	112
20	142	104	115	110	127	115	119
22	156	115	120	122	139	119	129
24	171	125	128	133	151	126	139
26	185	132	138	142	161	134	149
28	198	141	145	148	172	143	158
29	205	145	149	146	180	147	162
30	209	151	154	148	188	151	167
32	218	163	165	156	203	159	177
34	232	170	176	161	211	168	186
36	245	179	189	192	226	181	202
38	260	182	202	228	235	193	217
40	275	192	207	251	249	202	229
42	289	200	221	304	265	214	249
44	302	210	237	313	278	227	261
46	316	217	253	297	291	241	269
48	330	224	267	269	304	253	275

Individual temperatures recorded on the lower letter plate of Doorset A

Time Mins	T/C Number 78 Deg. C	T/C Number 79 Deg. C
0	22	22
2	60	24
4	60	25
6	73	29
8	98	32
10	176	37
12	178	48
14	158	55
16	148	57
18	156	61
20	156	65
22	163	69
24	171	73
26	182	76
28	195	82
29	200	85
30	208	88
32	218	92
34	225	95
36	230	97
38	236	98
40	241	100
42	248	102
44	260	107
46	273	113
48	288	124

Individual temperatures recorded on the upper letter plate of Doorset A

Time Mins	T/C Number 82 Deg. C	T/C Number 83 Deg. C
0	22	22
2	71	23
4	69	22
6	102	24
8	123	25
10	131	25
12	128	26
14	128	28
16	135	32
18	149	35
20	162	37
22	178	41
24	192	45
25	198	47
26	203	49
28	212	53
30	222	56
32	231	59
34	237	62
36	243	66
38	249	71
40	256	78
42	264	84
44	273	92
46	284	98
48	296	101

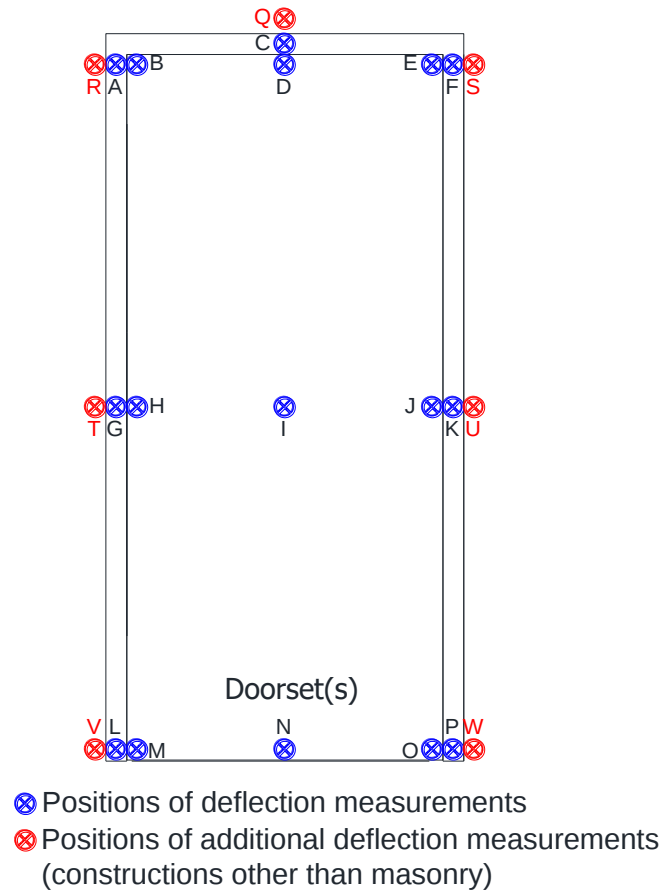
Individual temperatures recorded on the lower letter plate of Doorset B

Time Mins	T/C Number 80 Deg. C	T/C Number 81 Deg. C
0	21	21
2	62	23
4	66	25
6	79	29
8	97	34
10	143	44
12	152	51
14	156	48
16	165	48
18	180	53
19	189	54
20	200	57
22	224	61
24	249	68
26	271	73
28	293	79
30	312	86
32	334	92
34	356	99
36	373	103
38	387	106
40	399	108
42	409	109
44	418	111
46	426	114
48	437	118

Individual temperatures recorded on the upper letter plate of Doorset B

Time Mins	T/C Number 84 Deg. C	T/C Number 85 Deg. C
0	22	22
2	67	23
4	70	23
6	92	25
8	123	26
10	167	26
12	167	32
14	173	29
16	182	29
17	190	30
18	201	31
20	221	33
22	245	36
24	270	40
26	291	45
28	311	54
30	329	65
32	352	76
34	372	84
36	389	89
38	404	92
40	416	95
42	427	95
44	438	99
46	448	102
48	460	104

Horizontal deflections of the Doorset A

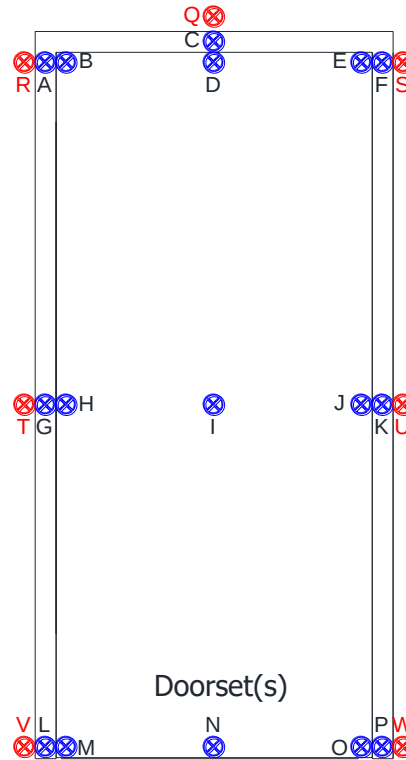


Deflections - mm																
TIME mins	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3	*	-13	-4	-2	-1	2	2	2	1	1	0	0	2	-2	-1
10	-9	*	-12	2	5	0	-6	-4	4	3	2	0	0	4	-1	1
15	-1	-9	-3	3	-11	0	0	4	4	2	2	0	1	6	1	1
20	-2	-4	-5	1	-13	0	-2	3	1	2	0	-1	0	4	0	0
25	-2	-10	-2	-7	-22	2	2	3	-9	-3	3	-1	-2	0	-2	-1
30	-3	-5	-4	-5	-10	-4	-1	-2	-5	-5	-1	-3	-2	-1	-2	-1
35	-6	-3	-4	-4	-34	-2	-5	-7	-7	-3	-3	-2	-1	0	0	-2
40	-2	-12	-1	-11	-46	-7	-3	1	-7	-2	1	-3	3	-1	1	-2
45	-8	-11	0	-16	-64	-8	-6	-3	-19	-7	-2	-2	4	1	2	0

*Deflection Malfunction

Positive values indicate movement towards the furnace

Horizontal deflections of the Doorset B



- ⊗ Positions of deflection measurements
- ⊗ Positions of additional deflection measurements (constructions other than masonry)

Deflections - mm																
TIME mins	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	-2	2	0	2	-5	-5	*	-5	*	*	*	0	-4	2	0	0
10	-1	0	-1	4	-3	-3	*	-5	-4	-3	3	0	2	3	2	1
15	0	2	-1	4	-6	-1	0	2	4	0	1	1	2	2	2	0
20	-19	*	-3	5	0	-1	-11	-7	-3	-2	3	0	1	2	1	0
25	*	-6	-6	1	1	-8	-8	-3	-6	-3	2	-3	-1	-2	0	0
30	-18	*	-8	-1	-3	-5	-6	-6	-10	-5	1	-2	-2	-3	-1	-2
35	-28	-8	-8	-1	1	-4	-6	-9	-7	-3	-1	-2	-2	-4	-1	-2
40	*	-6	-38	-6	-11	-14	-7	-5	-11	*	-2	-1	-3	-7	-3	7
45	-25	-11	-11	-10	-17	-27	-6	-4	-21	-3	3	-3	-1	-6	-1	6

*Deflection Malfunction

Positive values indicate movement towards the furnace

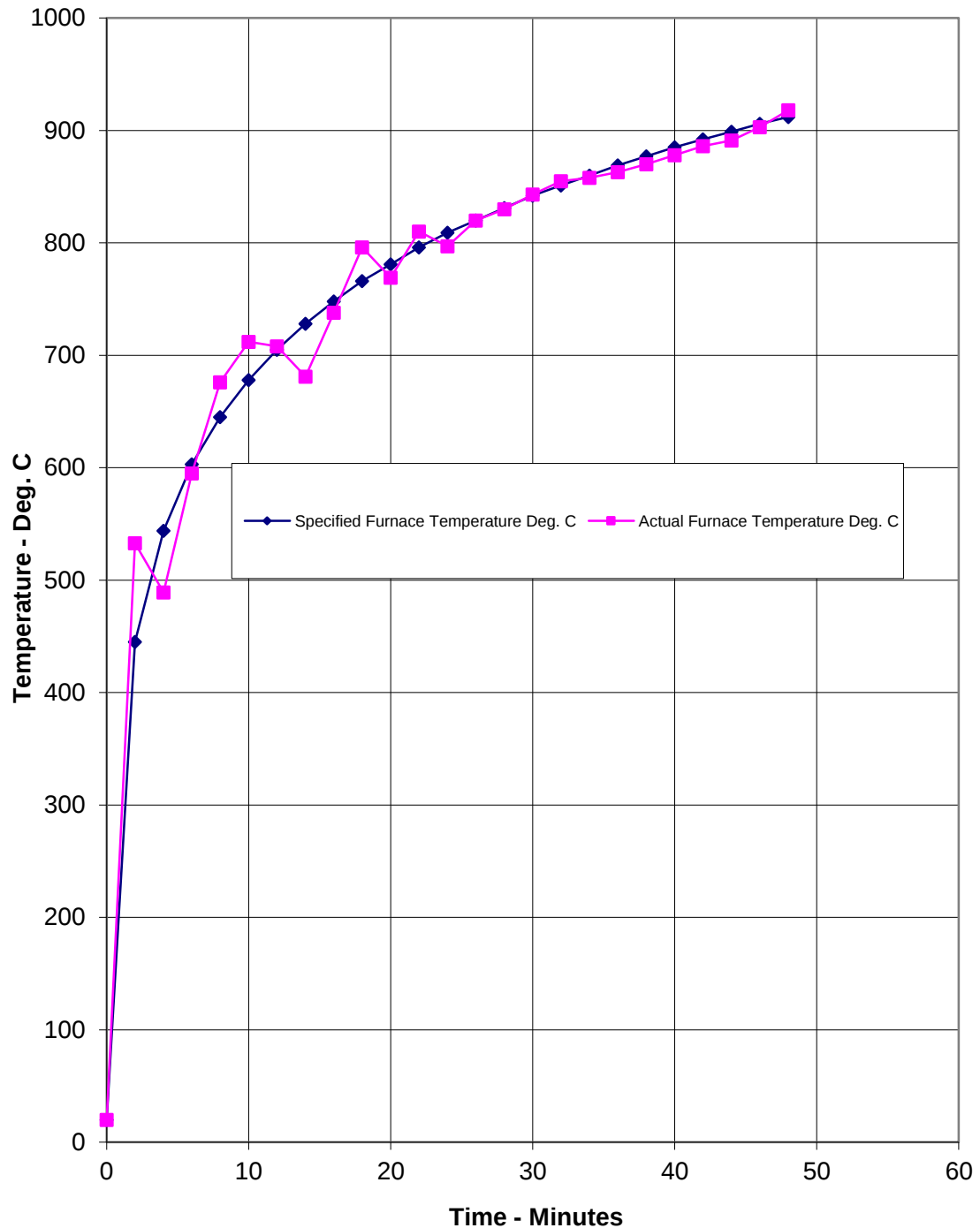
Recorded heat radiation intensity from the Doorset A

Time Mins	Radiation Intensity kW/m ²
0	0.000
2	0.040
4	0.110
6	0.120
8	0.130
10	0.140
12	0.140
14	0.150
16	0.150
18	0.170
20	0.190
22	0.240
24	0.300
26	0.330
28	0.380
30	0.430
32	0.500
34	0.580
36	0.660
38	0.730
40	0.790
42	0.870
44	0.950
46	1.060
48	1.160

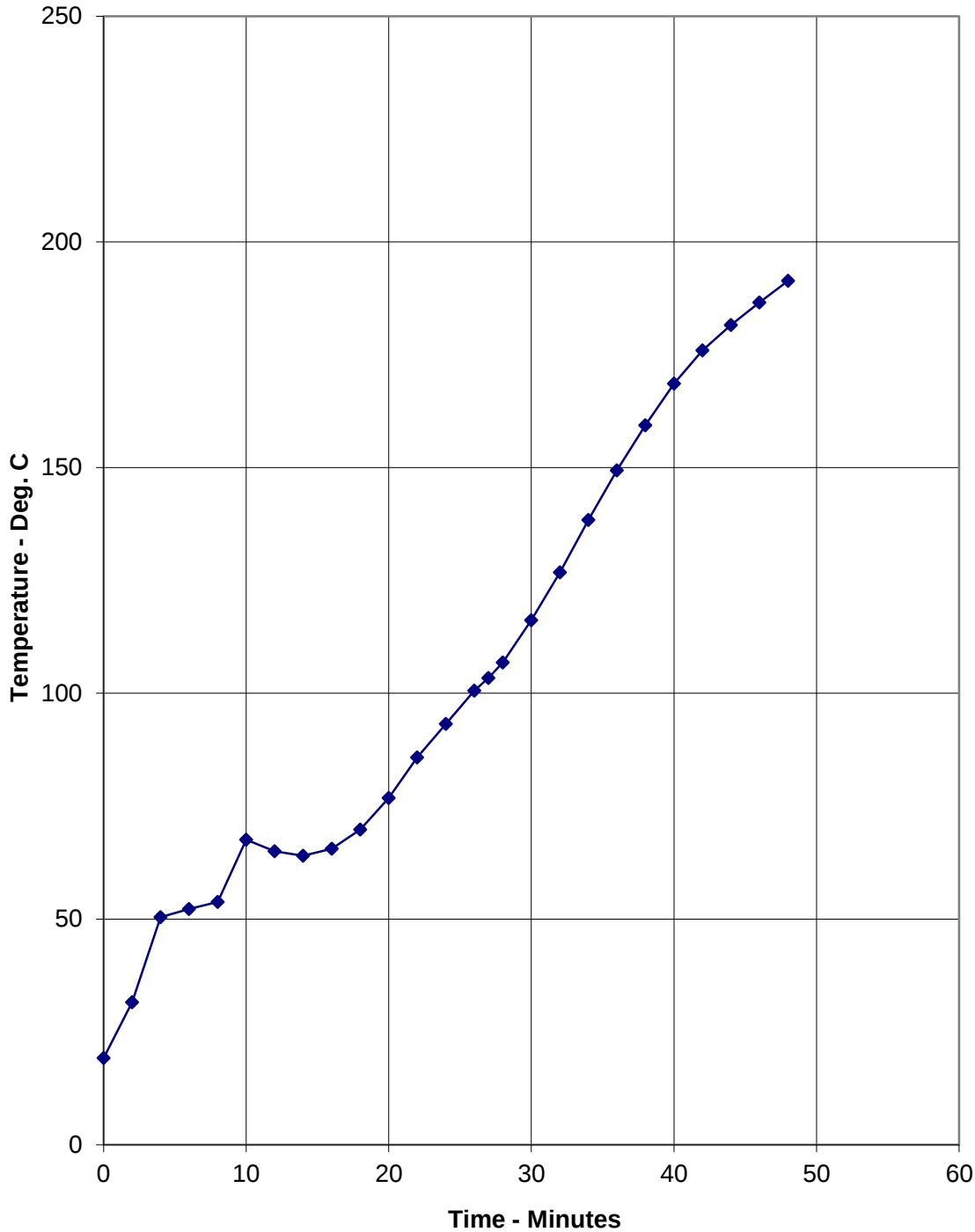
Recorded heat radiation intensity from the Doorset B

Time Mins	Radiation Intensity kW/m ²
0	0.000
2	0.030
4	0.080
6	0.090
8	0.100
10	0.090
12	0.100
14	0.110
16	0.110
18	0.130
20	0.140
22	0.160
24	0.190
26	0.220
28	0.240
30	0.280
32	0.330
34	0.370
36	0.410
38	0.460
40	0.510
42	0.570
44	0.640
46	0.720
48	0.840

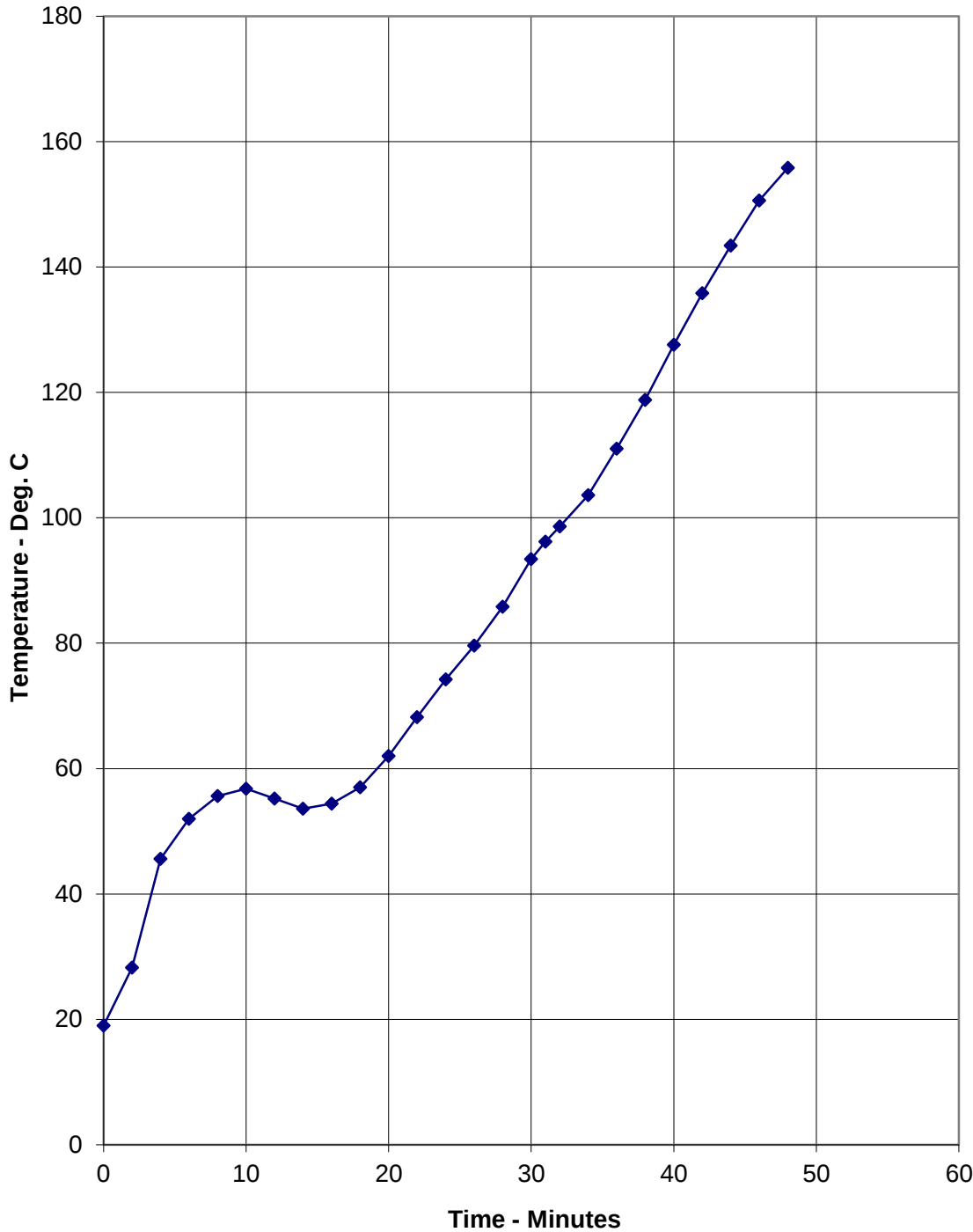
Graph showing mean furnace temperature, together with the temperature/time relationship specified in BS EN 1363-1: 2020



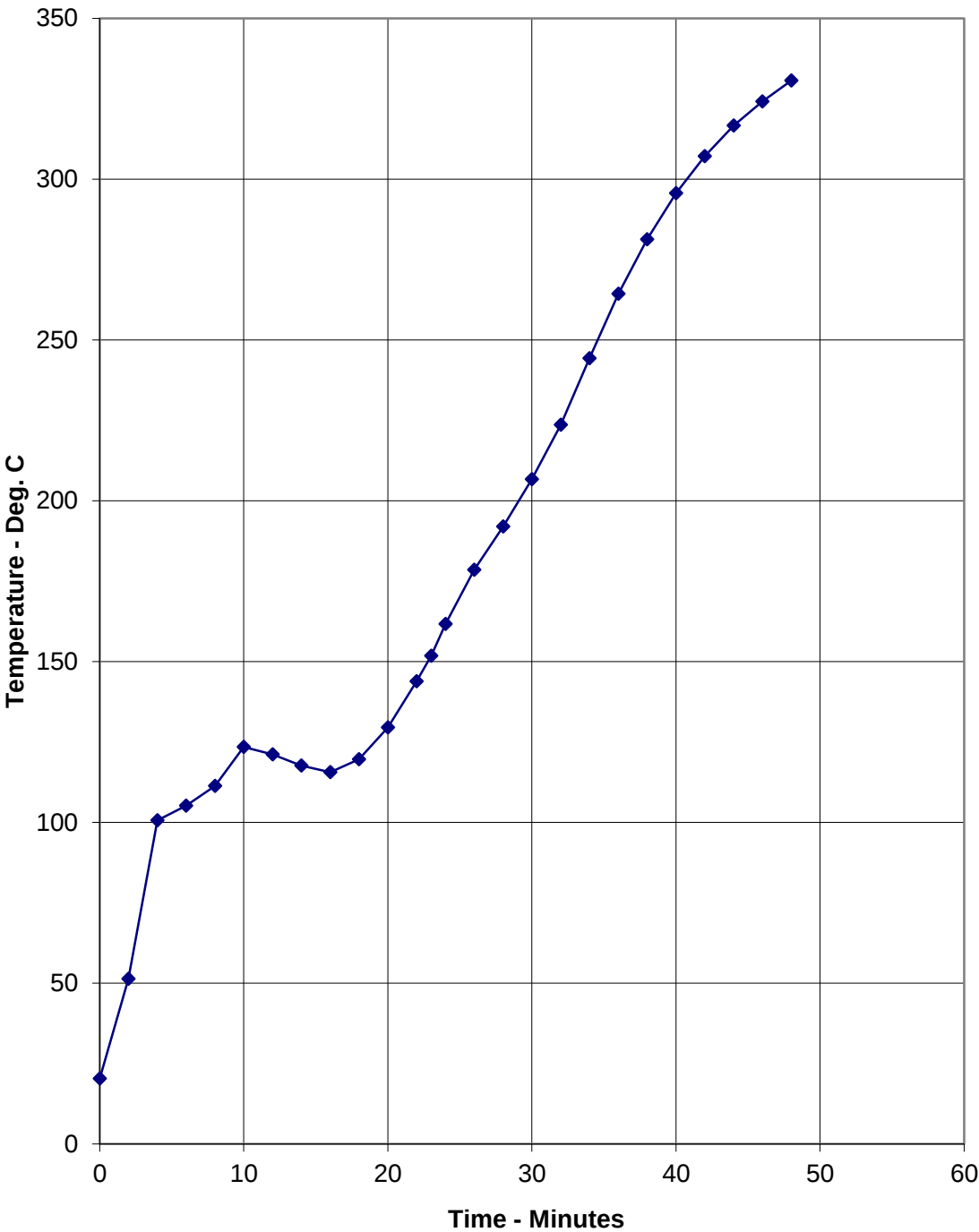
Graph showing mean temperature recorded on the unexposed surface of the Doorset A



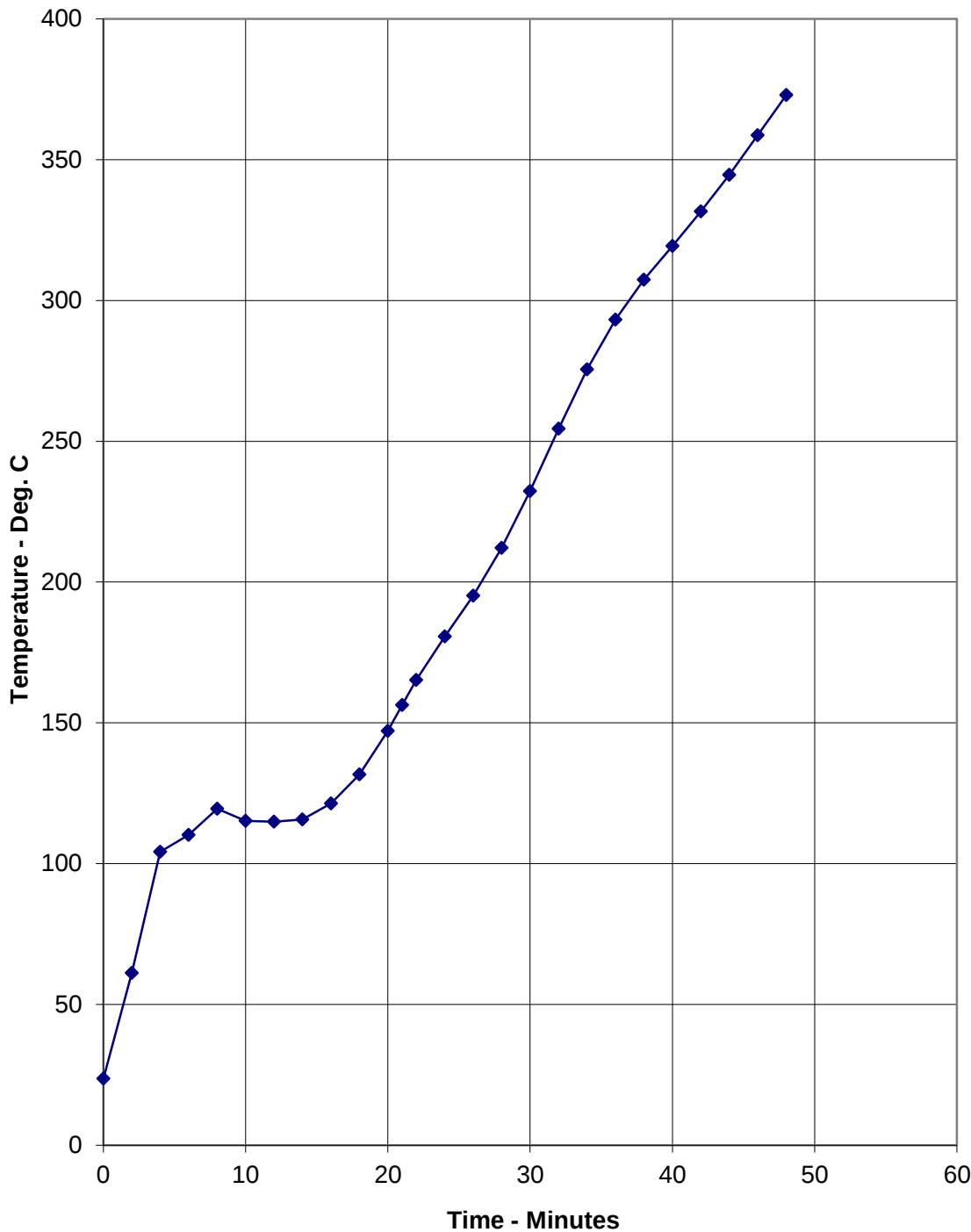
Graph showing mean temperature recorded on the unexposed surface of the Doorset B



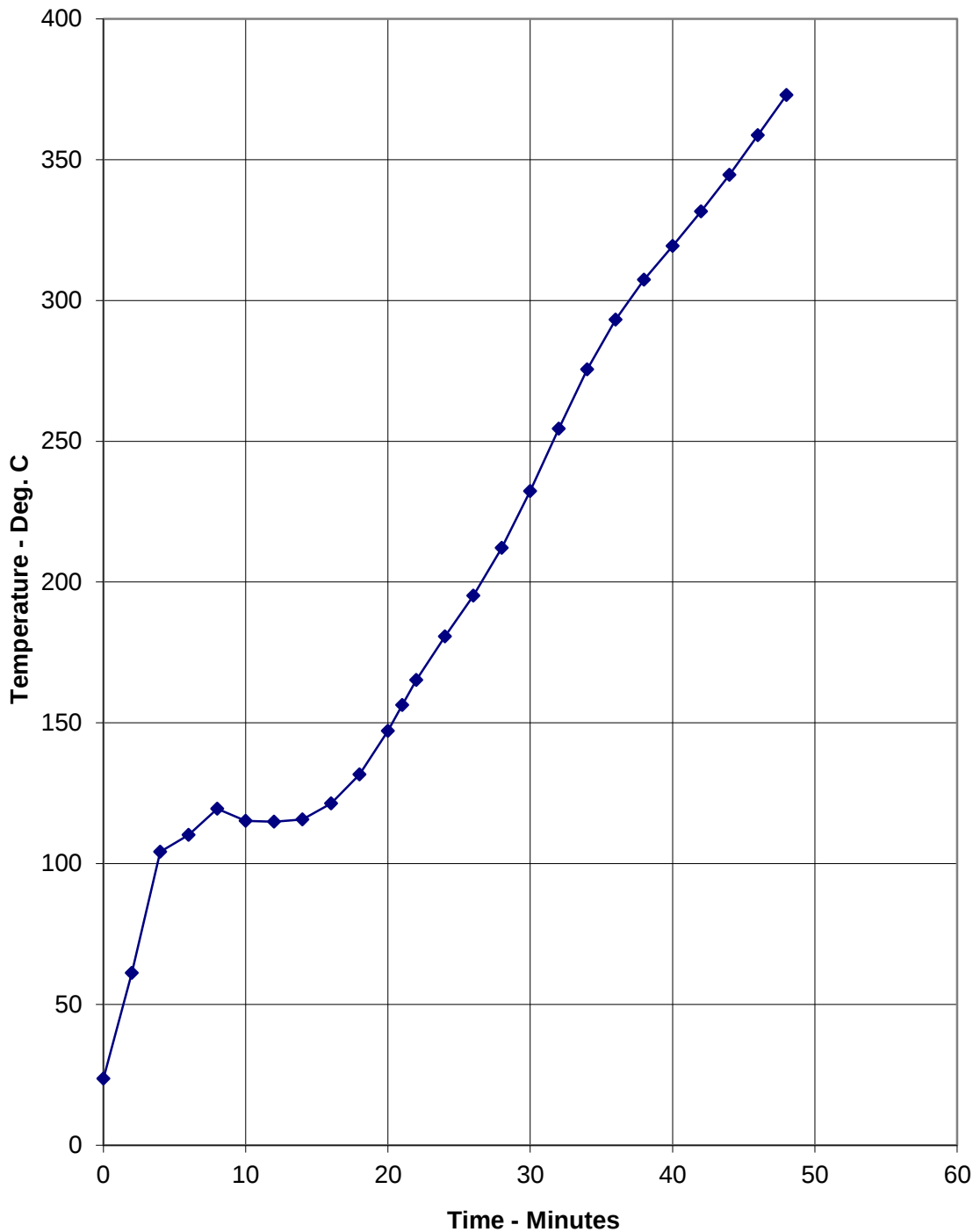
Graph showing mean temperature recorded on the unexposed surface of the left glazing on Doorset A



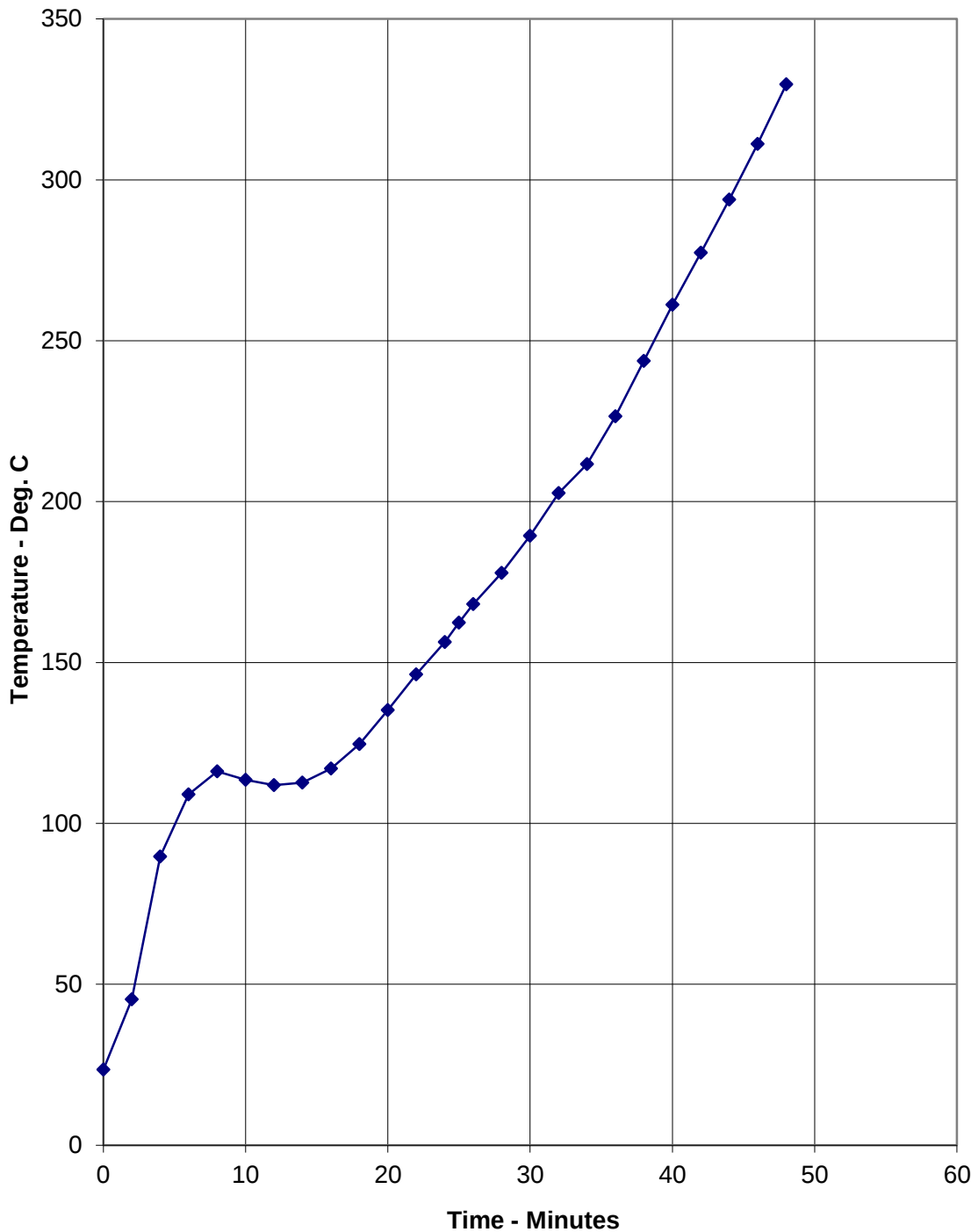
Graph showing mean temperature recorded on the unexposed surface of the left glazing on Doorset A



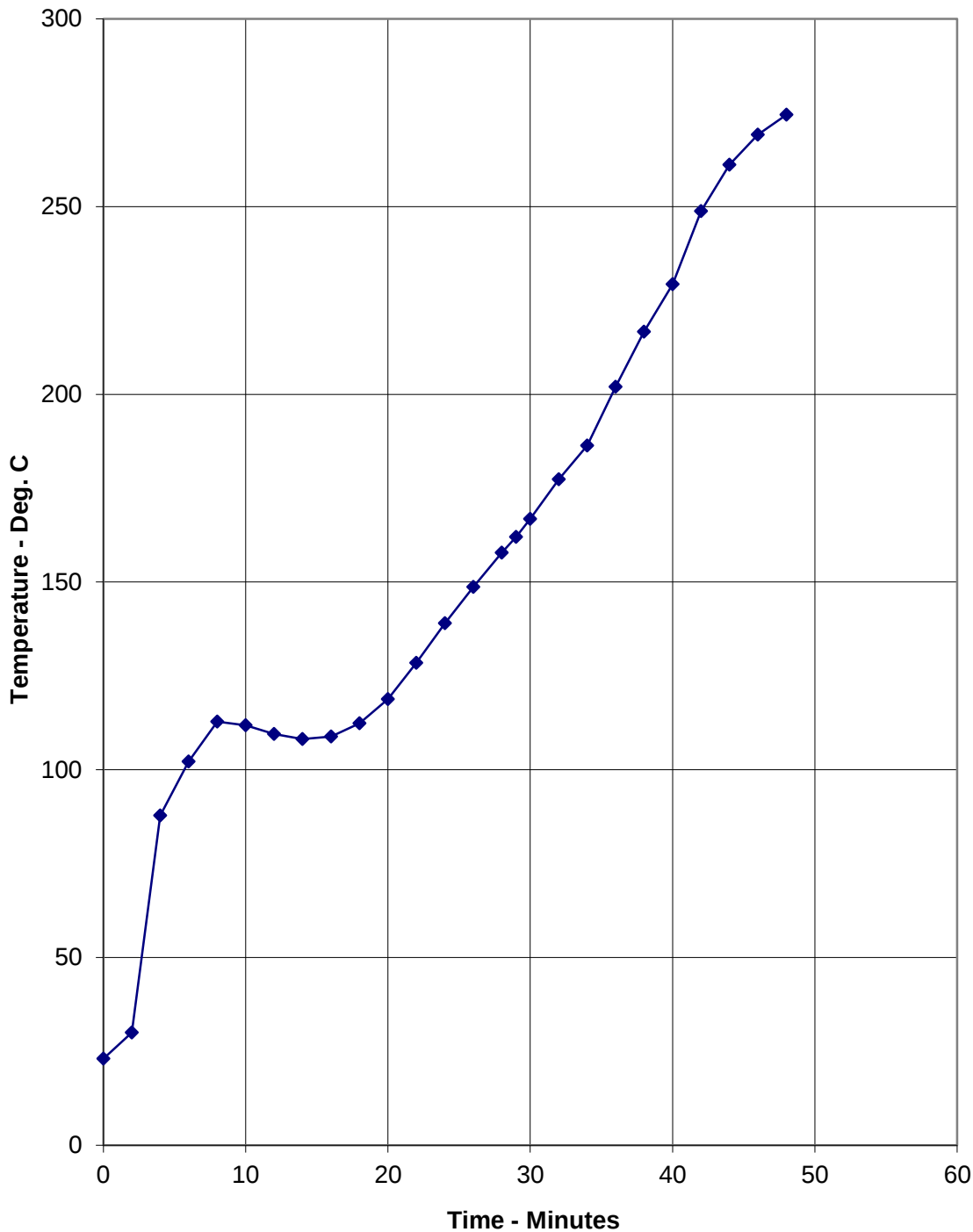
Graph showing mean temperature recorded on the unexposed surface of the right glazing on Doorset A



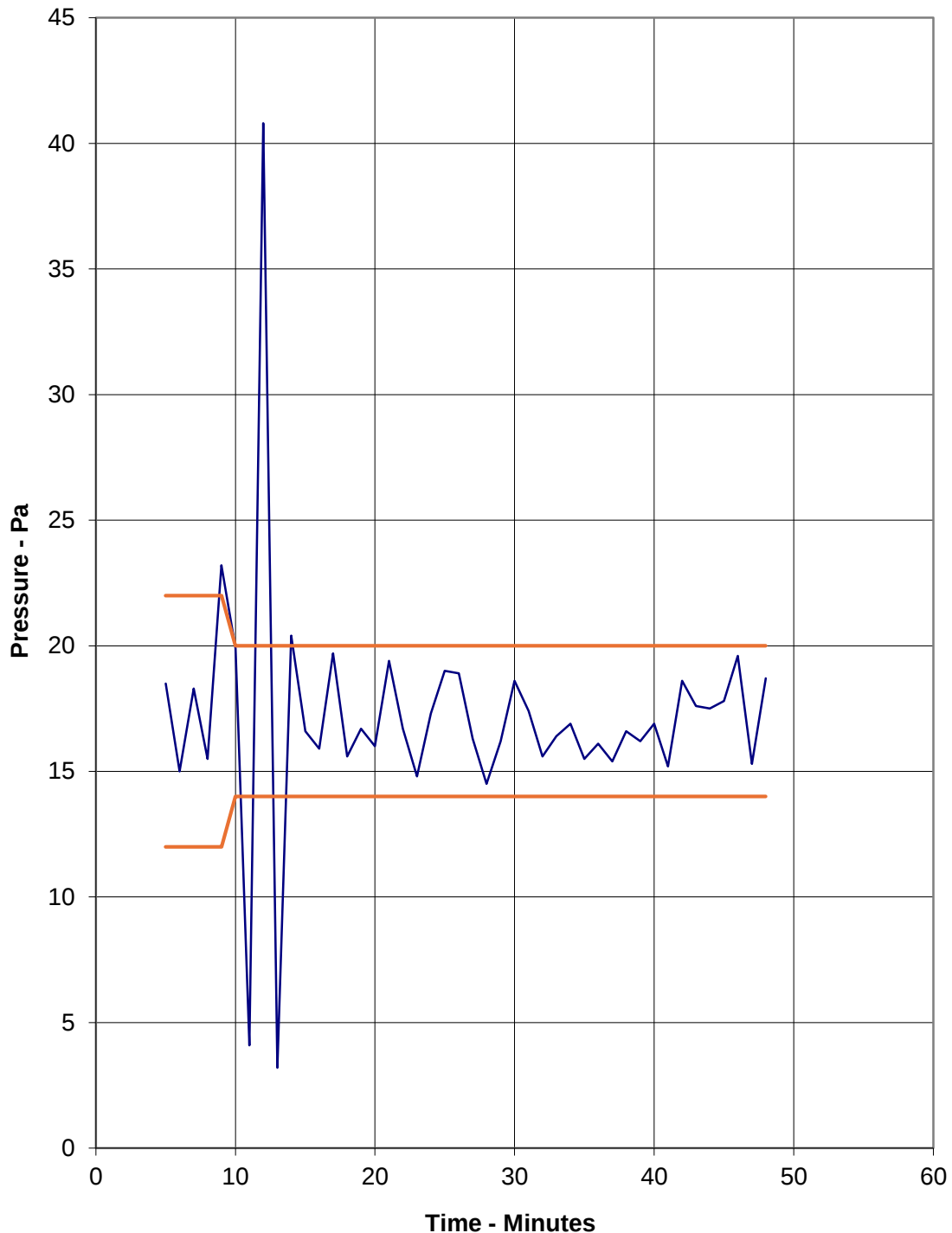
Graph showing mean temperature recorded on the unexposed surface of the left glazing on Doorset B



Graph showing mean temperature recorded on the unexposed surface of the right glazing on Doorset B



Graph showing recorded furnace pressure 2500 mm above the threshold of the doorsets



During the test a furnace pressure above the limitations specified under Clause 5.2.1 of BS EN 1363-1: 2020 was recorded. As this represents more severe conditions than specified, the results achieved may still be accepted as valid – as outlined in Clause 5.7 of BS EN 1363-1: 2020.

Due to necessary adjustments of the gas and air input to control the furnace, pressures outside the specified tolerances were recorded sporadically at short intervals. As the pressure fluctuations recorded at those intervals did not represent the pressure conditions throughout the test, their effect on the test results can be disregarded.

On-going Implications

Validity

This document is the original version of this test report and is written in English. In case of doubt, the original version prevails over a translation. This document is issued subject to Warringtonfire's standard terms and conditions, which are available at: [Terms and Conditions | Element](#).

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criteria for assessing the potential fire hazard of the product in use, nor can the results be extrapolated and applied to other products.

Reports are statements of fact(s) prepared in accordance with the referenced version of the standard(s). Reports are based upon the information provided to Warringtonfire. Warringtonfire takes no responsibility for the accuracy or completeness of such information.

The results stated in this report apply to the test specimens as received. 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 fire performance of the element in use, nor do they reflect the actual behaviour in fires.

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 1634-1:2014+A1:2018, BS EN 1363-1:2020, and where appropriate BS EN 1363-2:1999.

Any significant deviation with respect to size, constructional details, loads, stresses, edge or end conditions other than those allowed under the field of direct application in the relevant test method is not covered by this report.

Any differences in relation to the aforementioned characteristics may significantly affect the performance and will therefore invalidate the application of the test results to the variant product. It is recommended that any proposed variation to the tested configuration or product should be referred to the test sponsor. The test sponsor should then obtain appropriate documentary evidence of compliance from Warringtonfire or another accredited testing authority. The supplier of the product is responsible for ensuring that the product which is supplied for use is identical to the test specimens that were tested.

The specification and the interpretation of fire test methods are both the subject of ongoing development and refinement. Changes in the applicability of the results of tests in relation to associated legislation may also occur. For these reasons the currency and the relevance of test reports should be considered by the user.

The test report also relates only to the sample(s) of the product submitted to the test. The laboratory accepts no responsibility for the representativeness of the test specimens unless so stated in the test report.

Confidence that the product that is supplied to the market will have the performance indicated in the test report can be supported by use of third-party certification schemes.

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The report is issued for the benefit of Warringtonfire's direct customer only and may not be relied upon by any third parties without Warringtonfire's express written consent.

Uncertainty of measurements

Because of the nature of fire resistance testing and the consequent difficulty in quantifying the uncertainty of measurement of fire resistance, it is not possible to provide a stated degree of accuracy of the result.

EGOLF

Certain aspects of some fire test specifications are open to different interpretations. EGOLF have identified a number of such areas and have agreed Resolutions which define common agreement of interpretations between fire test laboratories which are members of the Groups. Where such Resolutions are applicable to this test they have been followed:

017-2018 - Position of thermocouples on door frame

019-2018 - Use of the average temperature thermocouples for determining maximum temperature criterion

021-2018 - Positioning of thermocouples on hotspots in door leaves

022-2018 - Discrete areas statement of insulation criteria

032-2018 - Definition of gaps and measurement of size of gaps

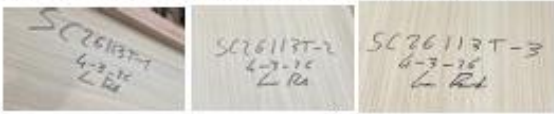
034-2018 - Opening/closing of doors before test

062-2022 V2 - Reporting test results

Revision history This report supersedes original issue dated 03 July 2026.

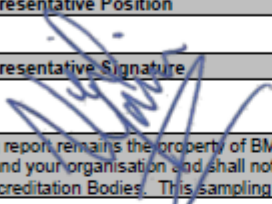
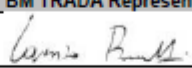
Note: The field of direct application may only be defined following the identification of classification(s). The field of direct and, where applicable, extended application will be included in the classification report.

Sample Report

bmtrada Proud to be part of element		SAMPLING VISIT REPORT		Company Name Wood International Agency Limited
				Customer ID. E003760
				BM TRADA Approved Body ID: 1224
Company Head Office Address	Wood House, 16 King Edward Road, Brentwood, Essex, CM14 4HL	Contact Name	Neil Harrison	
		Telephone	+44 7949468220	
		Email Address	neil@woodia.co.uk	
Location where sampling was conducted if different from Head Office Address			Visit Date	BMT Representative
Guardian Shield Doors Unit 24 Heathfield, Stacey Bushes Industrial Estate, Milton Keynes, MK12 6HP			27 th February, 2 nd /4 th March 2026	L. Bersanetti
Requirement	Evidence / Comments			
Opening Meeting (names of those present)	Garry Lavis (Guardian Shield Doors) Lorenzo Bersanetti (BM TRADA representative for sampling)			
Sampling Contract Reference	SC26113T			
Technical Specification document / FoA reference	Initial Type Test WIAD-SOL44-ITT-GSD-FD1 - TS T - Iss 4 240722 marked by sampler 05/03/2026 09:56			
Description of product(s) sampled	3 identical LSASD glazed timber based doorsets			
Batch number(s) / Product identification	Door 1: SC26113T-1 (Soloman44 blank previously sampled under SC23262B 22/24) Door 2: SC26113T-2 (Soloman44 blank previously sampled under SC23262B 21/24) Door 3: SC26113T-3 (Soloman44 blank previously sampled under SC23262B 1/3) 			
Date of manufacture	27 th February 2026: cutting of blanks, lipping 2 nd March: frame assembly, cutting of glazing apertures 4 th March: glazing, ironmongery fitting, hanging into frame			
Traceability of material records i.e. Purchase Orders and delivery notes	DN S-514992-1 / Exibex / 3x10mm intumescent Letter 03/03/26 / Exibex / Intumescent kit Letter 13 and 27 / 01/2026 / Exibex / hinge pads, intumescent strips, Aquatex A10, Exiglaize 30, Exiglaize 60 liner Acknowledgment 376583 / Fireglass / Pyrobelite 9EG EW30 DN 2033265 / Lathams / Eng. redwood and sapele DN 2308250 / Lathams / beading ref BDO9 DN A25053799191 / Screwfix / Dow 799 silicone DN 220371 / Sheffix / handles, hinges, keeps, cylinder, door, viewers knockers, door closers Invoice 221123 / Sheffix / door chain, numerals Invoice 221146 / Sheffix / fullex 55mm auto slam intumescent kit Sampling contract SC23262B / Wood International Agency Ltd / Door blanks			
Example of sampler's markings applied to the product(s) (contract reference, signature/initials of sampler, date of manufacture)				
Confirmation of minimum mandatory video/live checks undertaken	☒ Glazing assembly (where applicable) ☒ Hardware prep and fitting (where applicable)		☒ Finished doorset with markings ☒ Sampling pack discussion	
Details of any further FPC processes witnessed during the visit.	All key stages of door cutting/lipping/glazing, frame assembly, intumescent protection and hardware fitting witnessed including check of density and moisture content on timber based materials.			
Determine the essential characteristics of the product and confirm the details of in-process checks conducted on the sample to ensure conformity.	3 identical x LSASD timber based glazed doorset. Components traceable to technical specification supplied before and during sampling via information shown in delivery/purchasing papers and packaging. Production plan was implemented accordingly, full traceability kept and in process checks conducted by approved personnel.			
State any items from the Technical Specification / FoA that were not witnessed and require further lab sampling	☐ Side screen / overpanel ☒ Door closer		☐ Handles ☐ Frame re-assembly ☒ Other (see tech spec marked with 'not seen')	

Stocking Lane, Hughenden Valley, High Wycombe, Buckinghamshire, HP14 4ND. Tel: 01494 569700
SVR - Sampling Visit Report - Iss 5 - 190924

Page 1 of 2

 Proud to be part of element	SAMPLING VISIT REPORT		Company Name	Wood International Agency Limited
			Customer ID.	E003760
			BM TRADA Approved Body ID: 1224	
Confirm any clauses within the Technical Specification that were found to be different on the sampled product/s. <i>Non-conformances may be raised for pre-cert and audit test sampling</i>		Initial Type testing – changes from technical specification are marked within the technical specification form.		
Closing Meeting (names of those present)		Garry Lavis (Guardian Shield Doors), Lorenzo Bersanetti (BMT representative for sampling).		
Company Representative Name (Print)		Declaration for the Company		
Neil Harrison		I declare that the product/s witnessed during this sampling visit are representative of normal production. No changes will be made prior to delivery to the test laboratory.		
Company Representative Position				
Director				
Company Representative Signature		BM TRADA Representative Signature		
				
This sampling report remains the property of BM TRADA. BM TRADA shall keep confidential all information relating to the sampling process and your organisation and shall not disclose such information to any third party except as required by law or by BM TRADA's Accreditation Bodies. This sampling report will be shared with others within Warringtonfire Testing and Certification Ltd.				



Registered office:

Warringtonfire Testing and Certification Limited
3rd Floor, Davidson Building, 5 Southampton Street, London,
WC2E 7HA, United Kingdom
Registered Company No. 11371436

Location of performance of laboratory activities:

Warringtonfire Testing and Certification Limited
Holmesfield Road, Warrington WA1 2DS, United Kingdom
a UKAS accredited testing laboratory No.0249

Element Materials Technology
722 Birchwood Park, Warrington WA3 6FW, United Kingdom
a UKAS accredited testing laboratory No.0249

Fire resistance laboratory locations:

High Wycombe, United Kingdom
a UKAS accredited testing laboratory No.1762
T: +44 (0) 1494 840 780

Warrington, United Kingdom
a UKAS accredited testing laboratory No.0249
T: +44 (0) 1925 655 116

Ghent, Belgium
BELAC accredited laboratory 196-TEST
T: +32 9 243 77 50

Tisselt, Belgium
BELAC accredited laboratory 196-TEST
T: +32 9 243 77 50

Heywood, United Kingdom
a UKAS accredited testing laboratory No.0249
T: +44 (0) 1925 655 116

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