

CLASSIFICATION OF FIRE RESISTANCE IN ACCORDANCE WITH BS EN 13501-2:2023

Sponsor:	Wood International Agency Limited Wood House, 16 King Edward Road, Brentwood, Essex, CM14 4HL
Prepared by:	Cambridge Fire Research Brewery Road Pampisford Cambridge CB22 3HG
Product name:	Therman 44 Doorset System
Classification report number:	CFR24C001
Issue number:	2
Date of issue:	25 th September 2024

This classification report consists of twenty one pages and may only be used or reproduced in its entirety.



This test report is only valid when presented in full.



Key to symbols used throughout report:

- * Nominal value
- ** Declared value or detail, not verified by laboratory

*** Constructional details omitted at the request of the Sponsor. Full details are held on file by the laboratory

+ Identified post-test from remains of specimen

All dimensions in mm unless stated otherwise.

Figures shown are not to scale.



1 INTRODUCTION

This classification report defines the resistance to fire classification assigned to element, Therman 44 Doorset System in accordance with the procedures given in BS EN 13501-2:2023.

2 DETAILS OF CLASSIFIED PRODUCT

2.1 General

The element, Therman 44 Doorset System, is defined as a non-loadbearing fire resisting hinged doorset which had been tested in accordance with BS EN 1634-1:2014+A1:2018.

2.2 Description

The element, Therman 44 Doorset System, is fully described in the test report(s) in support of classification listed in 3.1.

3 TEST REPORTS/EXTENDED APPLICATION REPORTS AND TEST RESULTS IN SUPPORT OF THE CLASSIFICATION

3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Report ref. no	Test method and date/ field of extended application rules & dates
Cambridge Fire	Wood International	CFR2307121	BS EN 1634-1:2014+A1:2018
Research	Agency Limited	Revision 1	

Summary of specimen, test report CFR2307121 Revision 1.

Report ref. no	Sampling Procedure	Conditioning	Pre-fire tests
CFR2307121 Revision 1	Sampled by BM TRADA on 21/02/2023. See test report for details.	The specimens were received by Cambridge Fire Research on 24/07/2023. For the final 7 days that the specimens were on site the temperature and relative humidity were measured and recorded within the range of 16 to 26°C and 40 to 76% respectively. Ambient temperature at	Mechanical pre-test conditioning was carried out in accordance with BS EN 16034:2014. This included 25 pre-cycles, gap measurement, closer force measurement and final setting. See test report for details.
	21/02/2023. See test report for details.	Fire Research on 24/07/2023. For the final 7 days that the specimens were on site the temperature and relative humidity were measured and recorded within the range of 16 to 26°C and 40 to 76% respectively. Ambient temperature at start of test 20°C.	in accordance with BS EN 16034:2014. This included 25 pre-cycle gap measurement, closer force measurement and fir setting. See test report for details.



Left hand specimen

ltem	Component	Information
1L	Frame	
	Manufacturer: Description:	By Dezign Carpentry** A 3-sided rebated European Redwood** frame with 10h rebated joints and planted stops. Corner joints affixed using 2No. Ø5 x 70 steel countersunk screws, set at 42 centres and adhered using Wurth D4 PVA adhesive**.
	construction:	Ø5 x 90 steel countersunk screws, set 140 to 180 from the internal corners and at 475 centres at the jambs.
	Density (kg/m ³): Overall size (h x w x d): Cross section size (h x d):	Nominally 510** 2223 x 998 x 70 30 x 70
2L	Stops	
	Manufacturer: Description:	By Dezign Carpentry** European Redwood** stops, affixed to frame using 16swg x 38 pneumatically fired steel pins, set nominally 100** from the internal corners and at 250 to 350 centres.
	Density (kg/m ³):	Nominally 510 [^]
31	Overall Size (w x d).	12 X 20
JL	Manufacturer: Reference: Description: Overall size (h x w x t): Weight (kg): Sub-components: Core:	By Dezign Carpentry** Therman 44** An engineered solid timber** core with engineered lippings to all edges. 2182 x 932 x 44 31.2 including ironmongery
	Manufacturer: Reference: Description: Density (kg/m ³): Overall size (t):	Wood International Agency Ltd** Therman 44** An engineered solid timber** core. 291 to 305** 44
	Manufacturer: Reference: Description:	Wood Internation Agency Ltd** L4E Edgeman** Engineered Lippings Engineered lippings adhered to all edges of the core using Wurth D4 PU adhesive**.
	Density (kg/m ³): Overall size (d x t): Glazing Apertures:	/35 to 767** 44 x 8
		2No. glazing apertures, set 200‡ and 503‡* above the base of the leaf and 100‡ from the closing stile.
	Aperture size (h x w):	$1500 \pm x 250 \pm$



Item	Component	Information	
3L	Lower:	300‡ x 250‡	
cont			
4L	Glazing		
	Manufacturer:	Pyroguard**	
	Reference:	Advance 7-1**	
	Pane size (h x w x d):		
	Upper:	1494** x 244** x 7**	
	Lower:	294** x 244** x 7**	
	Sight size (h x w):		
	Upper:	1466 x 222	
	Lower:	272 x 222	
5L	Glazing beads		
	Manufacturer:	By Dezign Carpentry**	
	Reference:	CB1**	
	Description:	Mitred bolected Sapele** glazing beads, affixed to the	
		leaf using 16swg+ x 38+ pneumatically fired steel	
		pins, set at 25 to 30 from the internal corners and at	
		90 to 200 centres, adhered using Wurth Mitre Bond	
		adhesive^^.	
	Density (kg/m ³):	640^^	
	Overall size (h x w):	4500 050	
	Upper:	1508 x 258	
	Lower:	308 x 258	
	Section size (n x w):	17 X 18	
	Splay angle (°)	10^	
6L	Hinges	Vier Presiden Design Ltd	
	Reference:		
	Description:	2No stainloss staal butt binges with bearings, set	
	Description.	140, 348 and 1003 from the top of the loaf to the top	
		of the blade	
	Overall size		
	Blade size $(h \times w \times t)$	102 x 31 x 3	
	Knuckle size (0) .	14	
	Fixings to leaf:	4No Ø4.8 x 31 stainless steel countersunk screws	
	Fixings to frame:	4No. Ø4.8 x 31 stainless steel countersunk screws.	
7L	Latch/lock		
	Manufacturer:	Vier Precision Design Ltd	
	Reference:	ZDL7260RSS**	
	Description:	A mainly steel mortice latch with a stainless steel	
		forend, strike and polymeric dust box, set with the	
		centreline of the latch bolt 920 above the base of the	
		leaf and affixed using 2No. Ø3.4 x 21 stainless steel	
		countersunk screws. Strike affixed using 3No. Ø3.4 x	
		21 stainless steel countersunk screws.	
	Overall size:		
	Forend (h x d x t):	234 x 22 x 3	
	Body (h x w x d):	166 x 88 x 14	
	Strike (h x d x t):	180 x 40 x 1.2 including a 135h x 16d tongue	
	Dust box (h x w x d):	160 x 22 x 16	



Item	Component	Information	
8L	Euro cylinder		
	Manufacturer:	Vier Precision Design Ltd	
	Reference:	V5EP70DSCE, 70mm 35/35**	
	Description:	A mainly brass keyed eurocylinder.	
	Overall size:	35/35	
9L	Escutcheon		
	Manufacturer:	Zoo Hardware Ltd**	
	Reference:	ZCS001SS**	
	Description:	A steel escutcheon and stainless steel cover plate	
		affixed to the leaf using 2No. Ø3.8 x 20 steel	
		countersunk screws.	
	Overall size:		
	Body (Ø x d x t):	50 x 7 x 1.2	
	Cover (Ø x d x t):	52 x 8 x 0.7	
10L	Handleset		
	Manufacturer:	Zoo Hardware Ltd**	
	Reference:	ZCS2030SS**	
	Description:	A mainly stainless steel lever on rose handleset	
		comprising stainless steel handle, rose cover and	
		steel rose, affixed to the leaf using 2No. Ø4 x 20 steel	
		countersunk screws per rose.	
	Overall size:	·	
	Rose (Ø x d x t):	50 x 7 x 1.2	
	Cover (Ø x d x t):	52 x 8 x 0.7	
	Handle (Ø x w):	19 x 140	
11L	Closer		
	Manufacturer:	Zoo Hardware Ltd	
	Reference:	ZDC0024A-SN	
	Description:	A cast alloy closer with steel sub components, cover	
		and arm, set 76 from the hanging stile and 17 below	
		the head of the leaf, affixed using 4No. Ø5.7 x 32	
		steel countersunk screws. Arm affixed using 2No.	
		Ø4.6 x 24 steel countersunk screws.	
	Overall size:		
	Body size (h x w x d):	43 x 247 x 53	
	Cover size (h x w x d x t):	68 x 253 x 55 x 1.0	
12L	Intumescent – Frame		
	Manufacturer:	Intumescent Seals Ltd	
	Reference:	Therm-A-Seal**	
	Description:	2No. graphite based intumescent strips in PVC	
		holders with self adhesive on one side, set 8 from the	
		exposed face, fully interrupted at the hinges and	
		strike and 27 from the exposed face, partially	
		interrupted at the hinges with nominally 70%	
		remaining and at the strike with nominally 58%	
		remaining.	
	Overall size (w x d):	10 x 4	



Item	Component	Information
13L	Intumescent – Glazing seal	
	Manufacturer:	Sealmaster Ltd**
	Reference:	Intumescent Foam Tape**
	Description:	An open cell foam** seal with self-adhesive on one
	•	side, adhered at the interface of the glazing and
		beads.
	Overall size (w x d):	15** x 5**
14L	Intumescent – Hinges	
	Manufacturer:	Dixon International Group Ltd**
	Reference:	Therm-A-Strip**
	Description:	An ammonium phosphate based intumescent pad
		with self-adhesive on one side set beneath all
		hlades
	Overall size (t):	1
151	Intumescent – Latch/lock 1	
IUL	Manufacturer:	Dixon International Group Ltd**
	Reference:	Therm-A-Strin**
	Description:	An ammonium phosphate based intumescent pad
	Description.	with self-adhesive on one side, encasing the latch
		hody
	Overall size (t):	1
161	Intumoscont – Latch/lock 2	
IUL	Manufacturor:	Divon International Group Ltd**
	Poforonco:	Thorm A Eloy**
	Description:	A graphite based intumescent pad with self-adhesive
	Description.	on one side, set beneath the latch forend
	Overall size (t):	
471		
1/6	Monufacturor:	Diven International Croup Ltd**
	Deference:	Dixon International Group Lid
	Reference.	A graphite based intumeseent with self adhesive an
	Description:	A graphile based intumescent with self-adhesive on
101	Overall Size (l).	
IOL	Monufacturor	Diven International Croup Ltd**
	Deference:	Dixon International Group Lid
	Reference:	Inerm-A-Sup
	Description:	An ammonium phosphale based intumescent pad
		with self-adhesive on one side, encasing both dust
		Doxes.
	Overall size (t):	1
19L	Fire stopping detail	
	Description:	Gaps between the trame and the supporting
		construction were filled with Unifrax Insulfrax LTX
		mineral wool blanket and capped with Firewise
		Intumescent & Acoustic Acrylic Sealant.



Right hand specimen

Item	Component	Information
1R	Frame	
	Manufacturer:	By Dezign Carpentry**
	Description:	A 3-sided rebated European Redwood** frame with
		10h rebated joints and planted stops.
		Corner joints affixed using 2No. Ø5 x 70 steel
		countersunk screws, set at 42 centres and adhered
		using Wurth D4 PVA adhesive**.
	Fixings to supporting	
	construction:	Ø5 x 90 steel countersunk screws, set 140 to 180
		from the internal corners and at 475 centres at the
		jambs.
		F 4 0 **
	Density (kg/m [°]):	
	Overall size (n x w x d):	2222 X 999 X 70
20		30 X 70
28	Stops Manufacturor:	By Dozign Corpontry**
	Description:	European Redwood** stops, affixed to frame using
	Description.	16swa± x 38 pneumatically fired steel nins set at 250
		to 320 centres
	Density (ka/m ³):	510**
	Overall size (w x d):	12 x 20
3R	Leaf	
	Manufacturer:	By Dezign Carpentry**
	Reference:	Therman 44**
	Description:	An engineered solid timber** core with engineered
		Plywood lippings to all edges.
	Overall size (h x w x t):	2182 x 932 x 44
	Weight (kg):	32.0 Including ironmongery
	Sub-components:	
	Core:	
	Manufacturer:	Wood International Agency Ltd**
	Reference:	Therman 44**
	Description:	An engineered solid timber [^] core.
	Density (kg/m ³):	Nominally 300°°
		(Measured by Wood International Agency Ltd :
	O_{VOTO}	Sample Ref $CT = 29T$, Sample Ref $CZ = 305$).
	Lippings:	44
	Manufacturer:	Wood International Agency I td**
	Reference:	1 4F Edgeman** Engineered Plywood Lippings
	Description:	Engineered lippings adhered to all edges of the core
		using Wurth D4 PU adhesive**
	Density (kg/m ³):	600**
	Overall size (d x t):	44 x 8
	Glazing Apertures:	
	Description:	2No. glazing apertures, set 200‡ and 503‡* above
		the base of the leaf and 100‡ from the closing stile.
	Aperture size (h x w):	



Item	Component	Information	
3R	Upper:	1500‡ x 250‡	
cont	Lower:	300‡ x 250‡	
4R	Glazing		
	Manufacturer:	Pyroguard**	
	Reference:	Advance 7-1**	
	Pane size (h x w x d):		
	Upper:	1494** x 244** x 7**	
	Lower:	294** x 244** x 7**	
	Sight size (h x w):		
	Upper:	1466 x 222	
	Lower:	272 x 222	
5R	Glazing beads		
	Manufacturer:	By Dezign Carpentry**	
	Reference:		
	Description:	Mitred bolected Sapele** glazing beads, affixed to the	
		leaf using 16swg= x 38= pneumatically fired steel pins	
		set 50 from the internal corners and 150 to 200	
		centres, adhered using wurth with Bond adhesive".	
	Density (kg/m ^o):	640 ^{**}	
	Upper:		
	Lower:		
	Soction size (b x w):	17 v 18	
	Solay angle (0)	10*	
6R	Hinges		
	Manufacturer:	Vier Precision Design Ltd	
	Reference:	ZHSS243RS**	
	Description:	3No. stainless steel butt hinges with bearings, set	
		150, 348 and 1902 from the top of the leaf to the top	
		of the blade.	
	Overall size:		
	Blade size (h x w x t):	102 x 31 x 3	
	Knuckle size (Ø):	14	
	Fixings to leaf:	4No. Ø4.8 x 31 stainless steel countersunk screws.	
	Fixings to frame:	4No. Ø4.8 x 31 stainless steel countersunk screws.	
7R	Latch/lock		
	Manufacturer:	Vier Precision Design Ltd	
	Reference:	ZDL7260RSS^^	
	Description:	A mainly steel mortice latch comprising stainless steel	
		forend, strike and polymeric dust box, set with the	
		ventical centreline of the latch bolt 920 above the	
		base of the feat, affixed using 2No. 03.4 X 21 steel	
		Q2 5 x 21 stool countercurk scrows	
	Overall size:	03.5 X 2 I Steel Countersuitk Screws.	
	For end $(h \times w \times t)$.	234 x 22 x 3	
	Body ($h \times w \times d$).	166 x 88 x 14	
	Strike (h x d x t):	180 x 40 x 1.2 Including 135h x 16d tongue	
	Dust box ($h \times w \times d$):	160 x 22 x 16	
		100 X 22 X 10	



Item	Component	Information	
8R	Euro cylinder		
	Manufacturer:	Vier Precision Design Ltd	
	Reference:	V5EP70DSCE, 70mm 35/35**	
	Description:	A mainly brass keyed eurocylinder.	
	Overall size:	35/35	
9R	Escutcheon		
	Manufacturer:	Zoo Hardware Ltd**	
	Reference:	ZCS001SS**	
	Description:	A steel escutcheon with stainless steel cover, affixed	
		to the leaf using 2No. Ø3.8 x 20 stainless steel	
		countersunk screws.	
	Overall size:		
	Body (Ø x d x t):	50 x 7 x 1.2	
	Cover (Ø x d x t):	52 x 8 x 0.7	
10R	Handleset		
	Manufacturer:	Zoo Hardware Ltd**	
	Reference:	ZCS2030SS**	
	Description:	A mainly stainless steel lever on rose handleset	
		comprising steel rose, stainless steel handle and	
		rose cover, affixed using 4No. Ø4 x 20 stainless steel	
		countersunk screws per rose.	
	Overall size:		
	Rose (Ø x d x t):	50 x 7 x 1.2	
	Cover (Ø x d x t):	52 x 8 x 0.7	
	Handle (Ø x w):	19 x 140	
11R	Closer		
	Manufacturer:	Zoo Hardware Ltd	
	Reference:	ZDC0024-A-SN**	
	Description:	A mainly cast alloy closer with steel cover, set 77	
		from the hanging stile and 17 below the head of the	
		leaf, affixed using 4No. Ø5.7 x 32 steel countersunk	
		screws. Arm affixed using 2No. Ø4.6 x 24 steel	
		countersunk screws.	
	Overall size:		
	Body (h x w x d):	43 x 247 x 53	
100	Cover (n x w x d x t):	68 X 253 X 55 X 1.0	
12R	Intumescent – Frame	lation and on the late	
	Manufacturer:		
	Reference:	Inerm-A-Seal	
	Description:	ZNO. graphite based intumescent strips in PVC	
	holders with self adhesive on one side, se		
		unexposed face, fully interrupted at the hinges and	
strike and set 27 from		surve and set 27 from the unexposed face, partially	
		Interrupted at the ninges with nominally /1%	
		remaining and at the strike with nominally 58%	
		remaining.	
	Overall size (W x d):	10 X 4	



Item	Component	Information	
13R	Intumescent – Glazing seal		
	Manufacturer:	Sealmaster Ltd**	
	Reference:	Intumescent Foam Tape**	
	Description:	An open cell foam** seal with self-adhesive on one	
	·	side, adhered at the interface of the glazing and	
		beads.	
	Overall size (w x d):	15** x 5**	
14R	Intumescent – Hinges		
	Manufacturer:	Dixon International Group Ltd**	
	Reference:	Therm-A-Strip**	
	Description:	An ammonium phosphate based intumescent pad	
		with self-adhesive on one side, set beneath all	
		blades.	
	Overall size (t):	1	
15R	Intumescent – Latch/lock 1		
	Manufacturer:	Dixon International Group Ltd**	
	Reference:	Therm-A-Strip**	
	Description:	An ammonium phosphate based intumescent pad	
	·	with a self-adhesive on one side, encasing the latch	
		body.	
	Overall size (t):	1	
16R	Intumescent – Latch/lock 2		
	Manufacturer:	Dixon International Group Ltd**	
	Reference:	Therm-A-Flex**	
	Description:	A graphite based intumescent pad with self-adhesive	
		on one side, set beneath the latch forend.	
	Overall size (t):	1	
17R	Intumescent – Strike		
	Manufacturer:	Dixon International Group Ltd**	
	Reference:	Therm-A-Flex**	
	Description:	A graphite based intumescent with self-adhesive on	
	·	one side, set beneath the strike.	
	Overall size (t):	1	
18R	Intumescent – Dust boxes		
	Manufacturer:	Dixon International Group Ltd**	
	Reference:	Therm-A-Strip**	
	Description:	An ammonium phosphate based intumescent pad	
		with a self-adhesive on one side, encasing both dust	
		boxes.	
	Overall size (t):	1	
19R	Fire stopping detail		
	Description:	Gaps between the frame and the supporting	
	-	construction were filled with Unifrax Insulfrax LTX	
		mineral wool blanket and capped with Firewise	
		Intumescent & Acoustic Acrylic Sealant.	



Figure 1 – Left hand specimen elevation (unexposed face view) incl. hidden detail





Figure 2 – Section A – A



Figure 3 – Section B – B







Figure 4 – Section C – C





Figure 5 – Right hand specimen elevation (unexposed face view) incl. hidden detail





Figure 6 – Section A – A





Figure 7 – Section B – B





Figure 8 – Section C – C





3.2 TEST RESULTS

Test method, number and date	Parameter(s)	Result(s)
BS EN 1634- 1:2014+A1:201 8	Supporting construction	Flexible standard supporting construction (intended fire resistance EI30, Group A) in accordance with EN1363-1:2020.
Report no. CFR2307121 Revision 1	Left hand specimen Integrity Cotton pad Gap gauge Sustained flaming Thermal insulation I ₂ Radiation Right hand specimen Integrity Cotton pad Gap gauge Sustained flaming Thermal insulation I ₂ Radiation	37 minutes 37 minutes 31 minutes 5 minutes Did not exceed 15kW/m ² at 37 minutes 30 minutes 37 minutes 34 minutes 6 minutes Did not exceed 15kW/m ² at 37 minutes

4 CLASSIFICATION AND FIELD OF APPLICATION

4.1 Reference of classification

This classification has been carried out in accordance with Clause 7 of BS EN 13501-2:2023.

4.2 Classification

The element, Therman 44 Doorset System, is classified according to the following combinations of performance parameters and classes as appropriate.

R	Е		W		t	t	-	М	S	С	IncSlow	sn	ef	r	G	K
					Fi	re re	esist	ance	clas	ssific	ation:					
	EW15-C / EW20-C / EW30-C															
					-		5_C									
							5-0	/ ⊑ ∠	0-07	E 3(J-C					



4.3 Field of application

This classification is valid for the following end use applications of doorsets of the design tested for fire resistance, from the fire risk direction tested, with the following variations permitted by clause 13 of BS EN 1634-1:2014+A1:2018, the field of direct application of test results:

- Unless otherwise stated in the following text, the materials and construction of the doorset or openable window shall be the same as that tested. The number of leaves and the mode of operation (e.g. sliding, single action or double action) shall not be changed.
- The thickness of the door panel(s) shall not be reduced but may be increased.
- The door panel thickness and/or density may be increased provided the total increase in weight is not greater than 25 %.
- The composition of the door panel (e.g. type of resin) shall not be changed from that tested. The density shall not be reduced but may be increased.
- The cross-sectional dimensions and/or the density of the timber frames (including rebates) shall not be reduced but may be increased.
- The type of glass and the edge fixing technique, including type and number of fixings per metre of perimeter, shall not be changed from those tested.
- The number of glazed apertures and each of the dimensions (width and height) of glass in each pane may be decreased in proportion with size reductions. OR
- For All classifications, the number of glazed apertures and each of the dimensions (width and height) of glass in each pane may be decreased by a maximum of 25 %.
- The number of glazed apertures and each of the dimensions (width and height) of glass in each pane shall not be increased.
- The distance between the edge of glazing and the perimeter of the door leaf, or the distance between glazed apertures shall not be reduced. Other positioning within the door can only be modified if this does not involve the removal or re-positioning of structural members relative to the glazing.
- Where it is not expected to contribute to the fire resistance of the door, a paint finish may be added to door leaves or frames. Where the paint finish contributes to the fire resistance of the door (e.g. intumescent paints) then no change shall be permitted.
- For All classifications, decorative laminates and timber veneers shall not be added to the faces or edges of doors.
- The number of fixings per unit length used to attach the doorset to supporting constructions may be increased but shall not be decreased and the distance between fixings may be reduced but shall not be increased.
- The number of hinges may be increased but shall not be decreased.
- No other building hardware changes may be made.
- For All classifications, unlimited size reductions from the tested specimen are permitted, provided that the relative positioning of movement restrictors (e.g. hinges and latches) remains the same as tested, or that any change to the distance between them is limited to the same percentage reduction as the decrease of test specimen size.
- For E 30 / EW30 classifications, no size increase of the doorset is allowed.
- For E 15 / E 20 / EW15 / EW20 classifications, size increase of the doorset is permitted, up to a maximum height of 2556mm, a maximum width of 1148mm, and a maximum area of 2662265mm². This is subject to size increase of the door leaf up to a maximum height of 2509mm, a maximum width of 1072mm, and a maximum area of 2440349mm².
- For larger doorset sizes, the height of the latch above floor level shall be equal to or greater than the tested height, and such increase in height shall be at least proportional to the increase in door height.



- For larger doorset sizes, the following shall apply: The distance from the top hinge to the top of the door leaf shall be equal to or less than tested. The distance from the bottom hinge to the bottom of the door leaf shall be equal to or less than tested. The distance from the centre hinge to the bottom of the door leaf shall be equal to or greater than tested.
- The number, size, location and orientation of any joints in the timber framing shall not be changed.

Primary gap region	Gap width (mm)
Head	5.5
Hanging stile	5.0
Closing stile	5.5
Threshold	6.0

- The minimum size of the primary gaps may be reduced, as long as where gaps are smaller, they shall not impair the ability of the leaf to close.
- The permitted gap size may be different for different parts of the door.
- The results of the test are applicable to doorsets where the fire exposure is from the other direction than that tested.
- The fire resistance of the doorset is applicable to a doorset mounted in the same manner in a wall or partition constructed of studs of either metal or timber covered with board, providing the partition has a fire resistance (which has been established by separate test) equal to or greater than the partition in which the doorset was tested.
- The test results are applicable to a doorset mounted in a rigid construction, provided appropriate fixings are used for that type of construction.
- Any variations not specifically listed are not permitted.



5 LIMITATIONS

This classification document does not represent type approval or certification of the product.

Classification Report prepared by:

Tom Smith Senior Test Engineer

Report checked by:

mmes

Stuart Plummer Chief Test Engineer



6 INDEPENDENT REPORT

bmt	rada	SAM		ISIT	Compar	ny Name	Wood In	ternational Agency Ltd		
Proud to be part of element					BM TRADA Notified Body ID: 1224			1224		
Wood International Agency L			.td	Contac	act Name Neil Harrison					
Company Head Office	16 King Edward Ro		Telepho	one	ne +44 (0) 1277 232991					
Address	Brentwood Essex CM5 0RQ		Email A	Address doors@woodia.co.uk		o.uk				
Location where	sampling was conduc	ted if differ	ent from H	lead Offic	ce Addres	35	Visit Date	BMT Representative		
By Dezign Carpe	ly Ind Est,	Denbigh L	L16 5TA		22/07/2023	Michael Chorlton				
Requirement			Evidence	e / Comm	ents					
Opening Meeting	(names of those present)		Neil Harris	son / Shaun	Harrison					
Technical Specific Photographs to be in the Technical S	ation document / FoA refer taken of all critical areas h pecification	ence ighlighted	Technical Technical Marked up conjunctio	Technical Drawing: WIA-THN44-ITT-344-Z05. Technical Specification: Therman Test 1 sampling form. Marked up technical drawing and specification made by the sampler and must be read in conjunction with this sampling report.						
Description of proc	duct(s) sampled		with engin surface m and Euroc	eered timbe ounted ove sylinder.	er and hung	g in softwo er and sec	od frame on 3N ured with DIN S	No. Butt hinges. Operated by Sashlock operated by handle		
Product identificat	ion / reference numbers / c	odes	N/A							
Batch number(s)	IFA		N/A	hetween: 0	3/07/22 200	22/07/22				
Quantity of stock a	and size of sample(s) taken		2No. door	sets at 999	mm wide x	2222mm	n high			
Traceability of mai Purchase Orders	Traceability of material records ie Purchase Orders and delivery notes			Cylinder. Lipping fixing. Door frame & stop material, density and MC. Frame intumescent seals. Lipping density & MC. Hinge fixings and intumescent. Lockset and keep traceability, fixings and intumescent. Lever handle traceability. Escutcheon traceability. Glazing bead details, density & MC. Areas with limited or not traceability: Stop fixings. Lipping material traceability. Glass traceability.						
Example of sampl (contract reference manufacture)	er's markings applied to the e, signature of client, date c	product(s) f	A.	The second	SCR38 100	de	SC 23	181		
Confirmation of mi undertaken	inimum mandatory video/liv	e checks	✓ Glazing □ Hardway	assembly are prep and	(where app d fitting (wh	licable) ere applic	√ Fir able) √ Sa	nished doorset with markings mpling pack discussion		
Details of any furth the visit.	ner FPC processes witness	ed during	By Dezign technical s Dimensior	do not hav specification nal checks r	e a formali utilising tr nade throu	sed FPC in aditional jo ghout mar	n place. All man onery tools and nufacture.	nufacture made against the methods.		
Determine the ess and confirm the de on the sample to e	ential characteristics of the etails of in-process checks or ensure conformity.	product conducted	Door core intumesce protection	selection, t nt protectio and bead f	rimming an n and fixing ixings.	d lipping a gs. Glazing	pplication. Har selection, pre	dware selection, preparation, paration, intumescent		
State any items fro	om the Technical Specificat	ion / FoA	Side sc	reen / over	panel	Handles		✓ Other (see tech spec marked with 'not seen')		
that were not with	essed and require further la	b sampling	√ Door cl	oser		- Fram	e re-assembly	marked with hot seen)		
Confirm any claus that were found to <i>Non-conformanc</i> audit test sampli	es within the Technical Spe be different on the sample es may be raised for pre- ng	cification d product/s. c ert and	Refer to m Areas in Areas in Areas in required.	arked up te reen = veri ue = Addit ellow = Are	echnical spe fied during ional samp as without	ecification sampling ler notes verificatio	n or where add	itional evidence may be		
Closing Meeting (r	names of those present)		for approv	al and sign	ing.	ussidle. M	ankeorupisia	and dram sampling report sent		
Declaration	I declare that th	e product/s	witnessed	during this	sampling	y visit are	representativ	e of normal production.		
Noil Harrisc	esentative Name (Print				ompany F Director	Represer	itative Positi	on		
BM TRADA Per	resentative Signature		Company Representative Signature							
plulat Cher			- inparty f		orgriu	Bar				
This sampling r process an TRADA's Acc	eport remains the prope of your organisation and reditation Bodies. This s	rty of BM TF shall not dis ampling rep	RADA. BM sclose such port will be	TRADA son informati shared with	shall keep on to any th others v	confiden third part within Wa	tial all informa y except as re rringtonfire T	ation relating to the sampling equired by law or by BM esting and Certification Ltd.		



Proud to be part of element Wood International Agency		SAMPLING VISIT REPORT		Establishment No. BM TRADA Notified		Wood International Agency Ltd 047/21200. CO				
		td	Contact	Name	Nell Harrison					
Company Head	Woods House		Contact	name	Nell Harris	leii Harrison				
Office Address	16 King Edward Road		Telepho	ne	+44 (0) 127	7 232991				
Essex CM5 0RQ			Email Address doors@woodia.co.uk							
Location where s	ampling was conducted if diffe	rent from Head Of	fice Addr	ess			Visit Date	BMT Rep		
PT Bahana Bhumi	iphala Persada, JI. Raya Semarar	ig-Pekalongan Km.	59.Batan	g Jawa Ter	ngah, Indonesi	a, 51281	21/02/2023	Michael Chorito		
Opening Meeting	(names of those present)	Mr. Jacob Goss	Mr. Juni H	lariono						
Contract Reference	ce	SC23077-1 (Lin	SC23077-1 (Linked with SC23077-2, also manufacture with SC23076 and SC23078)							
Technical Specific Photographs to be	cation document / FoA reference. e taken of all critical areas	Drawing / Specification: WIAD-THN44-SPA-001-A1-P1 Rev A, A marked up copy on file which must be read iin conjunction with this report.								
highlighted in the	Technical Specification									
Description of pro	Albasia Falcata laminated with I and trimming to	Timber based door blank constructed from: Albasia Falcata rotary peeled veneers and Albasia Falcata engineered lamel blockboards, laminated with E1 MUF adhesive, cold pressed then hot pressed prior to calibration, veneerin and triming to size								
Product identificat	tion / reference numbers / codes	Mill reference "[Duocore",	WIAL refer	ence "Therman	n 44".				
Batch number(s)		Works batch: 2	1023130 (21 march 2	3, shift 1 lot 30) & 210231	131 (21 march	23, shift 1 lot 31)		
Date of manufactu	Jre	03/03/2023 for	calibration	sanding &	veneering 06	03/2023 fo	r trimming			
Quantity of stock	and size of sample(s) taken	14No. Blanks (L	ot 30) and	15No. (Lo	t 31) Blanks 1	220mm wic	le x 2440mm h	igh x 44mm thick		
Traceability of ma	terial records ie	PT BBP have fu	Illy traceal	ole materia	s, processes a	and inspect	ion records via	SAP system.		
Purchase Orders	and delivery notes	Record sheets f	or inspect	ions availa	ble at all stage	S.	d batch contra			
Example of sampl product(s) (contra date of manufactu See essential cha	ler's markings applied to the ct reference, signature of client, ire) racteristics for images.	^{2rd} stage: Layup and bonding of Ply's, cold pressing. Nave dges of board contains batch code, signature, size and number (Images retained for traceability). 3 rd stage: Sanding & veneering. Face of each board marked with batch code, signature & size 4 th stage: After final trimming SC23077 applied to edge of each blank with date and signature.								
Confirmation of m	inimum mandatory video/live	Glazing asse	mbly (whe	are applical	ale)	🗆 Finis	hed doorset w	th markings		
checks undertake	n .	Hardware pro	ep and fitti	ng (where	applicable)	√ Sam	oling pack disc	ussion		
Details of any furt during the visit.	her FPC processes witnessed	Sampling is par place which will	t of initial a be assess	sed under E	t of this mill for BM Trada 047	scheme ce	s mill has an a rtification.	udited FPC in		
Build: Layer 1: 0.9mm Li Layer 2: 2.0mm Ci Layer 3: 18.5mm I Layer 4: 2.0mm Ci Layer 5: 18.5mm I Layer 6: 2.0mm Ci Layer 7: 0.9mm Li	ong Grain Veneer ross Grain Veneer blockboard (Vertical lamels). ross Grain Veneer blockboard (Vertical lamels). ross Grain Veneer ong Grain Veneer ong Grain Veneer	timber and lame density range (2 approx. 6-8%). I Lamel cutting an glue application with own recipe (which are finge Veneers rotary 1 seèn 284-319). Glue recipe (In I lamels (4.5 kg/m Laying up corre- hot pressing (25 Blow detection v Calibration sanc Albasia Falcata Cold presing an Trimming to des	and a standard and a standard	ands: A Gra g/m ³ range after manuf g to 18.5mm nuous form cipe on file) <i>i</i> thout adhe 2.0mm non ed MUF, re used) and is (As text I 0°C +/- 5° und cavity 30mm +1.0 veneer 0.5 sing. tt x width (p	de with no bar with values set acture, the cor n thick x 52mm noting that lar asive). anal, density ra- tripe held on fi ply's (30g +/-2 fi), cold press at 79 kg/m ²) ar detector. mm / -0.0mm applied w rior to palletisat	k or wane, en 293-308 nplete blan n (Widths c. ed line. Sm mels are bu ange (280-3 le), in proce g per squa ing (40 mir nd sanding. rith MUF gla ation for shi	ann pieces), g moisture ci k will reach no an be 35-52mr all voids (betw itt jointed exclu 335 kg/m ³ rang ess tests, appli re foot). Is at 14.1 MPa Seasoning no ue (32g +/-3g p pment).	, rot, splits etc), pontent (Dried to minally 12%. n) wide prior to een lamels) filled ding long edges e with values cation quantity for for 8'x4' board), minally 2 days. her square foot).		
were not witnesse	ed & require further lab sampling				Erame re	accombly	markee	with 'not seen')		
Confirm any claus Specification that sampled product/s raised for pre-ce	es within the Technical were found to be different on the s. Non-conformances may be rt and audit test sampling	Mark up of the s and the specific specification.	pecification ation upda	on documer nting accord	nt made. Speci lingly prior to b	fication abo	l ove must be ag lised as the co	greed by the Mill ntractual		
Closing Meeting (names of those present)	Remote samplin	ig. No form	nalised clos	sing meeting, r	eport sent	for review and	approval.		
Declaration	I declare that the product	tvs witnessed durin	g this sam	omnany P	enresentative	Position	a production.			
Company Repres	emanve Name (Print)		C	ompany N	epresentative	o /	1			
JACOB	G055			DI	RECTO	4				
BM TRADA Repres	esentative Signature		S	ompany R ent to PT I	BBP for approx	Signature oval after in	a nitial commen	t & change.		
This sampling r your organisation	report remains the property of BM n and shall not disclose such infor sampling report will be	TRADA. BM TRAD mation to any third shared with others	DA shall ke party exce within Wa	eep confide ept as requi	ntial all inform red by law or l	ation relatin by BM TRA Certification	ng to the samp DA's Accredita Ltd.	ling process and ation Bodies. This		

Stocking Lane, Hughenden Valley, High Wycombe, Buckinghamshire, HP14 4ND. Tel: 01494 569700 Wood International Agency Limited SC23077-1 THERMAN 44 SVR rev 2 MC DATE





Sample Report

This report provides a record of the information relating to samples taken by Warringtonfire Testing and Certification Limited trading, or its agent, for certification of the products detailed below.

Job No.	FM450144
Manufacturer	Dixon International Group Ltd
Manufacturing site	Place of Sampling - Unit 3, The Old Brewery, Pampisford, Cambridge, CB22 3HG
	CF5387 produced by Vita Cellular Foams UK Ltd CF5645 produced by Profile Techniques Ltd
Place of sampling	Packaging Section – Picked from Stock
Traceability information	Date/time of production: Sampled 15/12/21 Production unit/line: Packaging section Batch number: Orders V92554, V92357. Shift: Day
Product Number/ Description	 Produced by Vita cellular Foams UK Ltd – CF5387 Sealmaster Intumescent Foam - 15mm x 5mm black – 20 No Coils X 20m – WO V92554; Sealmaster Intumescent Foam – 10mm x 5mm black – 30 No. Coils x 20m – WO V9357; Sealmaster Intumescent Foam – 20mm x 5mm black – 15 No. Coils x 20m – WO V92357; Produced by Profile Techniques – CF5645 Sealmaster Intumescent Closed Cell Foam Tape – 10mm x 3mm black – 200 mts – WO 33108; Sealmaster Intumescent Closed Cell Foam Tape – 15mm x 3mm black – 200mts – WO 33694 Thermablade 15 X4mm White – 20 No. Thermaseal 20 x 4mm White – 20 no. Thermaseal 15 x 4mm White – 30 No.
Marking of the product by the manufacturer e.g. label, batch number	FM450144 / 1121 / Gavin Gunn / 15-12-21
Marking of the samples by Warringtonfire Testing and Certification Limited Stock/batch quantity from which	Job No: FM450144 Date: 15 th December 2021 Signature or initials: Gavin Gunn
samples selected and sample quantity	Picked from received stock.
during manufacture	N/A – Refer to manufacturers audit reports
Essential Characteristics to be tested	
ie. Test reference	Various – Required for audit test purposes
Samples to be dispatched by manufacturer to *** within *** weeks/month(s)	To be consumed when required.
Date of sampling	15 [™] DECEMBER 2021
Warringtonfire Testing and Certification Limited notified body number	1121

Doc. Ref. EWC-QU-FT-090 (Issue 4 - 18/10/2021)



warringtonfire Proud to be part of element

 Signed:
 Signed:

 (for and on behalf of Manufacturer)
 Signed:

 (for and on behalf of Warringtonfire Testing and Certification Limited)

 Print: BOB SETTLE
 Print: GAVIN GUNN

 Date: 15TH DECEMBER 2021
 Date: 15TH DECEMBER 2021

Doc. Ref. EWC-QU-FT-090 (Issue 4 - 18/10/2021)

Page 2 of 2

Warringtonfire Testing and Certification Limited (a company registered in England and Wales with registered number 11371436)



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Sample Report This report provides a record of the information relating to samples taken by Warringtonfire Testing and Certification Limited trading, or its agent, for certification of the products detailed below.

Job No.	FM524113
Manufacturer	Pyroguard UK Ltd
Manufacturing site	Pyroguard UK LTD, International house, Millfield Lane Haydock WA11 9GA
Place of sampling	As above
Traceability information	Date/time of production: 24th October 2022 Production unit/line: Main Factory Batch number: Production Run 51 Shift: Day
Product Number/ Description	Ref: Pyroguard Advanced
Marking of the product by the manufacturer e.g. label, batch number and date of manufacture	23No. Stock sheets of Pyroguard 2 EW30/7-1 glass
Marking of the samples by Warringtonfire Testing and Certification Limited	Job No: FM524113 Notified Body 1121 Date: 24 th October 2022 Signature or initials: AJC
Stock/batch quantity from which samples selected and sample quantity	Samples production witnessed and inspected during manufacture
Results of tests and/or inspections during manufacture	Manufactured to BS EN14449, BS EN1279
Essential Characteristics to be tested ie. Test reference	BS EN 1363-1 Part 1
Samples to be dispatched by manufacturer to *** within *** weeks/month(s)	Dispatch to: Pyroguard UK Ltd - H1 Stock Internatonal House Millfeld Lane Haydock Lane Merseyside, WA11 9GA
Date of sampling	24th October 2022
Warringtonfire Testing and Certification Limited notified body number	1121
Signed:	Signed: (for and on behalf of Warringtonfire Testing and
(for and on behalf of Manufacturer)	Certification Limited) Print
Vince Crook	Andrew Cape
Date: 24 th October 2022	Date: 24 th October 2022

Warringtonfire Testing and Certification Limited Registered Office: 10 Lower Grosvenor Place, London, United Kingdom, SW1W 0EN. Company Registration No.11371436

Doc. Ref. EWC-QU-FT-90 (Issue 3 - 29/11/2018)

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7 REVISION HISTORY

Issue	Identification of changed information and reasons	Prepared by	Checked by
1	Original issue	Tom Smith	S Plummer
2	UKAS logo added as per technical bulletin.	Tom Smith	S Plummer