

Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and Certification Limited

Classification standard: EN 13501-1: 2018

Sponsor(s): Dura Composites Ltd

Product(s): "Free Drain Decking" & "Positive Drain Decking"

Report number: 548575

Version: 1

Quality management

Version	Date	Summary of amendments including reasons	
1	19 December 2024	Description	Initial issue
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		*Signed for and on behalf of Warringtonfire Testing and Certification Limited	

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1. Introduction

This classification report defines the classification assigned to "Free Drain Decking" & "Positive Drain Decking", in line with the procedures given in EN 13501-1: 2018.

Warringtonfire Testing and Certification Limited (Warringtonfire) issued the classification report at the request of the sponsor listed in Table 1.

Table 1 Sponsor details

Entity	Address
Sponsor	
Dura Composites Ltd	Dura House, Telford Road, Clacton-On-Sea, Essex, CO15 4LP, United Kingdom

2. Details of classified product

2.1 General

The product(s), "Free Drain Decking" & "Positive Drain Decking", are defined as being suitable for construction applications excluding flooring and linear pipe thermal insulation applications.

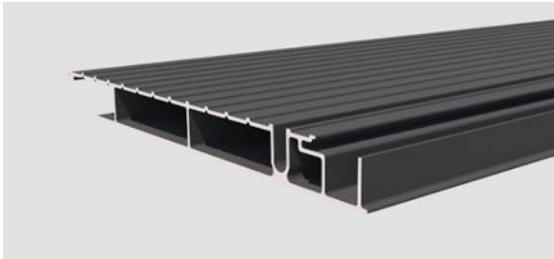
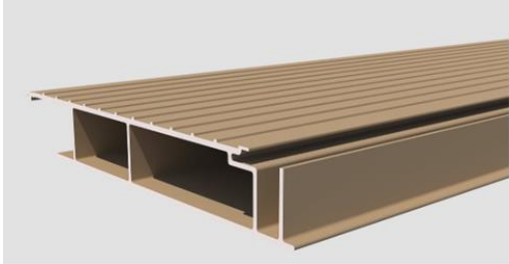
2.2 Product description

The product(s), "Free Drain Decking" & "Positive Drain Decking", are described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

Item	Detail
General description	Powder coated aluminium decking with support frame tested in the horizontal orientation
Product reference	"Free Drain Decking" "Positive Drain Decking"
Name of manufacturer	Dura Composites Ltd.

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Item	Detail	
18mm positive drain	Overall thickness with frame (average)	58.17mm (determined by Warringtonfire)
	Overall thickness (profiled) (average)	18mm (stated by sponsor) 18.29mm (determined by Warringtonfire)
	Wall thickness (average)	1-3mm (stated by sponsor) 1.50mm (decking) (determined by Warringtonfire) 3.00mm (frame) (determined by Warringtonfire)
	Overall weight per unit area (average)	16.01kg/m ² (determined by Warringtonfire)
	Width of panel	150mm (determined by Warringtonfire)
	Colours (as tested)	"Mist" – RAL7001 – silver grey "Anthracite" - RAL7043 – grey "Cedar" – RAL1019 – grey beige
	Photograph of profile	
27mm positive drain	Overall thickness with frame	67.18mm (determined by Warringtonfire)
	Overall thickness (profiled)	27mm (stated by sponsor) 26.84mm (determined by Warringtonfire)
	Wall thickness	1-3mm (stated by sponsor) 1.73mm (decking) (determined by Warringtonfire) 3.05mm (frame) (determined by Warringtonfire)
	Overall weight per unit area	18.15mm (determined by Warringtonfire)
	Width of panel	150mm (determined by Warringtonfire)
	Colour (as tested)	"Cedar" – RAL1019 – grey beige
	Photograph of profile	

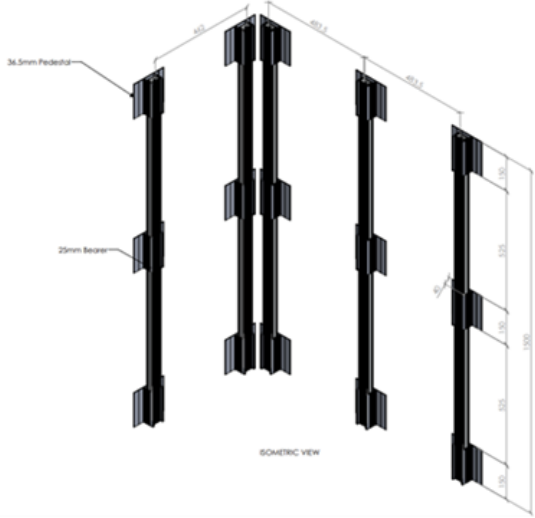


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Item	Detail	
18mm free drain	Overall thickness with frame	58.27mm (determined by Warringtonfire)
	Overall thickness (profiled)	18mm (stated by sponsor) 18.51mm (determined by Warringtonfire)
	Wall thickness (average)	1-3mm (stated by sponsor) 1.56mm (decking) (determined by Warringtonfire) 2.99mm (frame) (determined by Warringtonfire)
	Overall weight per unit area	14.38kg/m ² (determined by Warringtonfire)
	Width of panel	150mm (determined by Warringtonfire)
	Colour (as tested)	"Cedar" – RAL1019 – grey beige
	Photograph of profile	
Coating	Generic type	Polyester powder coating
	Product reference	"Interpon 810 Series"
	Name of manufacturer	Akzo Nobel Powder Coatings
	Colour references (tested)	RAL 7001 – Mist RAL 7043 – Anthracite RAL 1019 – Cedar
	Colour (as tested)	"Mist" – Silver grey "Anthracite" – grey "Cedar" – grey beige
	Number of coats	One
	Thickness	80 microns
	Application rate	167g/m ²
	Density	1.45 ± 0.25g/cm ³
	Curing process	Heated to 180°C
	Application method	Electrostatically applied
	Flame retardant details	See Note 1 below
Curing process	Heated to 180°C	


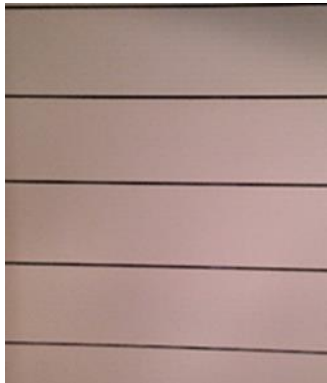
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Item		Detail
Aluminium	Generic type	Aluminium extrusion
	Product reference	“6063 T6”
	Name of manufacturer	Dura Composites Ltd
	Wall thickness	1.5mm
	Weight per unit area	18mm positive drain – 10.05kg/m ² 27mm positive drain – 13.28kg/m ² 18mm free drain – 8.9kg/m ²
	Flame retardant details	The component is inherently flame retardant
Brief description of manufacturing process		Powder coated extruded profiles.
Mounting and fixing		A 40mm ventilated cavity was situated between the reverse face of the specimens and the fibre cement board substrate as defined in EN 13238:2010, provided by an aluminium frame as described below
Frame	Generic type	Aluminium
	Product reference	“Aluminium Pedestal and Bearer”
	Name of manufacturer	Dura Composites Ltd
	Wall thickness	3mm
	Overall thickness	40mm
	Weight per pedestal	0.67kg
	Weight per bearer	0.91kg
	Weight per frame	12.966kg
	Flame retardant details	The frame is inherently flame retardant.


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Item	Detail	
Frame (continued)	Photograph of frame assembly	 <p>Isometric view of a frame assembly. The assembly consists of three vertical bearers supported by a base. Dimensions shown include a total height of 1300, with segments of 100, 300, 300, 300, and 100. Spacing between bearers is 450. Labels indicate '34.5mm Pedestal' and '25mm Bearer'. The text 'ISOMETRIC VIEW' is centered below the drawing.</p>
	Photograph of frame bearer	 <p>A 3D perspective rendering of a single frame bearer, showing its U-shaped cross-section and textured surface.</p>
	Photograph of frame pedestal	 <p>A 3D perspective rendering of a frame pedestal, showing its L-shaped cross-section and textured surface.</p>
Substrate	Generic type	Fibre cement board
	Product reference	"NT D4 604"
	Name of manufacturer	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800 kg/m ³

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Item	Detail	
Joints for 18mm "Positive Drain"	Joint type	Horizontal
	Position of horizontal joint from the bottom edge, measured when the wings are mounted ready for testing	500mm
	Depth of joints	18mm
	Width of joints	Butt joint
	Photograph of joint	
Joint details for 18mm "Free Drain"	Joint type	Horizontal
	Position of horizontal joint from the bottom edge, measured when the wings are mounted ready for testing	500mm
	Depth of joints	18mm
	Width of joints	5mm
	Photograph of joint	

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Item	Detail	
Joint details for 27mm "Positive Drain"	Joint type	Horizontal
	Position of horizontal joint from the bottom edge, measured when the wings are mounted ready for testing	500mm
	Depth of joints	27mm
	Width of joints	Butt joint
	Photograph of joint	

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

3. Test reports and test results in support of classification

3.1 Test reports

Table 3 details the test reports that have been used in support of classification.

Table 3 Test reports

Name of laboratory	Name of sponsor(s)	Test report no.	Test date	Test and extended application standard
Warringtonfire	Dura Composites Ltd	548113	05 November 2024, 18 November 2024, 19 November 2024	EN 13823: 2020 + A1: 2022
Warringtonfire	Dura Composites Ltd	548112	05 November 2024	
Warringtonfire	Dura Composites Ltd	548114	06 November 2024	
Warringtonfire	Dura Composites Ltd	548115	05 November 2024	
Warringtonfire	Dura Composites Ltd	548118	05 November 2024	
Warringtonfire	Dura Composites Ltd	532968	28 May 2023	EN ISO 1716: 2018 (*)
Warringtonfire	Dura Composites Ltd	532969	28 May 2023	
Warringtonfire	Dura Composites Ltd	532970	30 May 2023	
Warringtonfire	Dura Composites Ltd	548574	-	CEN/TS 15117:2005 & EN 15725:2023

(*) As the test procedure for EN ISO 1716 remained identical for versions 2010 & 2018 and no substantial technical changes were noticed in the most recent version 2018, results obtained with the 2018 version can also be considered valid for classification purposes (where only the 2010 version is mentioned).

3.2 Test results

3.2.1 Official test results used for the classification

Table 4 details the test results that have been used in support of classification. The fire performance parameters for class A2 - s1, d0 can be found in Table 6.

Table 4 Test data

Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN 13823: 2020 + A1: 2022 548113	FIGRA (THR(t) threshold of 0.2MJ)	3	0	-
	FIGRA (THR(t) threshold of 0.4MJ)		0	-
	THR _{600s} (MJ)		0.4	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m ² /s ²)		0	-
	TSP _{600s} (m ²)		21	-
	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s		-	Compliant
	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s		-	Compliant
EN ISO 1716: 2018 532969	Average gross heat of combustion for NON-SUBSTANTIAL component (polyester coating "RAL 1019"), "Cedar" colour Q _{PCS} (MJ/m ²)	3	3.3	-
EN ISO 1716: 2018	Average gross heat of combustion for SUBSTANTIAL component (Aluminium) QPCS (MJ/kg)	-	0.0	-
EN ISO 1716: 2018	Average gross heat of combustion for whole product using worst case colour ("RAL 1019" (Cedar colour)), 18mm 'positive drain' product Q _{PCS} (MJ/kg)	-	0.3	-
EN ISO 1716: 2018	Average gross heat of combustion for whole product using worst case colour ("RAL 1019" (Cedar colour)), 27mm 'positive drain' product Q _{PCS} (MJ/kg)	-	0.2	-

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Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN ISO 1716: 2018	Average gross heat of combustion for whole product using worst case colour ("RAL 1019" (Cedar colour)), 18mm 'free drain' product Q _{PCS} (MJ/kg)	-	0.4	-

Note: '-' symbol confirms this parameter is not applicable.

3.2.2 Comparative test results used for the worst case determinations

The tables below detail the test data that has been used to determine the worst case for each product parameter.

Table 5 EN 13823

Product name Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
18mm Free Drain 548113* "Cedar" colour	FIGRA (THR(t) threshold of 0.2MJ)	1	0	-
	FIGRA (THR(t) threshold of 0.4MJ)		0	-
	THR _{600s} (MJ)		0.2	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m ² /s ²)		0	-
	TSP _{600s} (m ²)		22	-
	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s		-	Compliant
	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s		-	Compliant

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Product name Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
18mm Positive Drain 548112 "Cedar" colour	FIGRA (THR(t) threshold of 0.2MJ)	1	0	-
	FIGRA (THR(t) threshold of 0.4MJ)		0	-
	THR _{600s} (MJ)		0.6	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m ² /s ²)		0	-
	TSP _{600s} (m ²)		19	-
	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s		-	Compliant
	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s		-	Compliant
27mm Positive Drain 548114 "Cedar" colour	FIGRA (THR(t) threshold of 0.2MJ)	1	0	-
	FIGRA (THR(t) threshold of 0.4MJ)		0	-
	THR _{600s} (MJ)		0.2	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m ² /s ²)		0	-
	TSP _{600s} (m ²)		6	-
	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s		-	Compliant
	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s		-	Compliant
18mm Positive Drain 548115 "Mist" colour	FIGRA (THR(t) threshold of 0.2MJ)	1	0	-
	FIGRA (THR(t) threshold of 0.4MJ)		0	-
	THR _{600s} (MJ)		0.2	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m ² /s ²)		0	-
	TSP _{600s} (m ²)		11	-
	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s		-	Compliant
	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s		-	Compliant

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Product name Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
18mm Positive Drain 548118 "Anthracite" colour	FIGRA (THR(t) threshold of 0.2MJ)	1	0	-
	FIGRA (THR(t) threshold of 0.4MJ)		0	-
	THR _{600s} (MJ)		0.2	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m ² /s ²)		0	-
	TSP _{600s} (m ²)		14	-
	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s		-	Compliant
	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s		-	Compliant

(*) The results of this sample were re-used in the official test report No. 548113 (as test specimen 1).

Note: '-' symbol confirms this parameter is not applicable.

Table 6 EN ISO 1716

Product name Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN ISO 1716: 2018 532968 "Mist" colour	Average gross heat of combustion for NON-SUBSTANTIAL component (polyester coating "RAL 7001"), "Mist" colour Q _{PCS} (MJ/kg)	3	17.2	-
EN ISO 1716: 2018 532969* "Cedar" colour	Average gross heat of combustion for NON-SUBSTANTIAL component (polyester coating "RAL 1019"), "Cedar" colour Q _{PCS} (MJ/kg)	3	20.0	-
EN ISO 1716: 2018 532970 "Anthracite" colour	Average gross heat of combustion for NON-SUBSTANTIAL component (polyester coating "RAL 7043"), "Anthracite" colour Q _{PCS} (MJ/kg)	3	16.6	-

(*) The results of this sample were used in the EN ISO 1716 calculation

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2 Classification

The product "Free Drain Decking" & "Positive Drain Decking" in relation to its reaction to fire behavior is classified as:

A2

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction applications excluding flooring and linear pipe thermal insulation applications products is:

Fire behaviour	Smoke production			Flaming droplets		
A2	-	s	1	,	d	0

Alternatively shown:

Reaction to fire classification: A2 - s1, d0

4.3 Field of application

The classification for the product described in Section 2.2 of this report is valid for end-use applications described in Table 7.

Table 7 End-use applications

End use	Description	Origin
Substrate	Any substrate with a density equal to or greater than 1350 kg/m ³ , a minimum thickness of 6 mm and a fire performance of A2-s1, d0 or better (excluding paper faced gypsum plasterboard).	As per EN 13238: 2010, clause 5.3 and EGOLF recommendation 045-2018.
Airgap	Valid for an air gap of 40 mm and more	As per EN 13823: 2020 + A1: 2022, clause 5.2.2.a.
Frame	Mechanically fixed to an aluminium pedestal and bearer frame as described in the product description	N/A
Joints	Horizontal joints permitted	N/A
Orientation	Product mounted in a horizontal orientation only	N/A

This classification is valid for the following product parameters:

18mm “Positive Drain”

- Overall thickness (profiled): 18mm (no variation allowed)
- Wall thickness: 1-3mm (no variation allowed)
- Overall weight per unit area: 16.01kg/m² (no variation allowed)
- Width of panel: 150mm (no variation allowed)
- Coating reference: “Interpon 810 Series” (no variation allowed)
- Coating colours: “Mist (RAL 7001)”, “Anthracite (RAL 7043)”, “Cedar (RAL1019)”, “Beige Grey (RAL 7006)”, “Anthracite Grey (RAL 7016)”, “Dusty Grey (RAL 7037)”, “Clay Brown (RAL 8003)”, “Sepia Brown (RAL 8014)”, “Chocolate Brown (RAL 8017)”, “Grey Brown (RAL 8019)”, “Stone Grey (RAL 7030)”, “Quartz Grey (RAL 7039)” and “Window Grey (RAL 7040)”
- Number of coats : One (no variation allowed)
- Coating thickness: 80 microns (no variation allowed)
- Coating application rate: 167g/m² (no variation allowed)
- Coating application method: Electrostatically applied (no variation allowed)
- Coating curing process: Heated to 180°C (no variation allowed)
- Aluminium wall thickness: 1.5mm (no variation allowed)
- Aluminium weight per unit area: 10.05kg/m² (no variation allowed)
- Use of flame retardants: No variation allowed
- Construction: No variation allowed
- Composition: No variation allowed

27mm “Positive Drain”

- Overall thickness (profiled): 27mm (no variation allowed)
- Wall thickness: 1-3mm (no variation allowed)
- Overall weight per unit area: 18.15kg/m² (no variation allowed)
- Width of panel: 150mm (no variation allowed)
- Coating reference: “Interpon 810 Series” (no variation allowed)
- Coating colours: “Mist (RAL 7001)”, “Anthracite (RAL 7043)”, “Cedar (RAL1019)”, “Beige Grey (RAL 7006)”, “Anthracite Grey (RAL 7016)”, “Dusty Grey (RAL 7037)”, “Clay Brown (RAL 8003)”, “Sepia Brown (RAL 8014)”, “Chocolate Brown (RAL 8017)”, “Grey Brown (RAL 8019)”, “Stone Grey (RAL 7030)”, “Quartz Grey (RAL 7039)” and “Window Grey (RAL 7040)”

- Number of coats : One (no variation allowed)
- Coating thickness: 80 microns (no variation allowed)
- Coating application rate: 167g/m² (no variation allowed)
- Coating application method: Electrostatically applied (no variation allowed)
- Coating curing process: Heated to 180°C (no variation allowed)
- Aluminium wall thickness: 1.5mm (no variation allowed)
- Aluminium weight per unit area: 13.28kg/m² (no variation allowed)
- Use of flame retardants: No variation allowed
- Construction: No variation allowed
- Composition: No variation allowed

18mm “Free Drain”

- Overall thickness (profiled): 18mm (no variation allowed)
- Wall thickness: 1-3mm (no variation allowed)
- Overall weight per unit area: 14.38 kg/m² (no variation allowed)
- Width of panel: 150mm (no variation allowed)
- Coating reference: “Interpon 810 Series” (no variation allowed)
- Coating colours: “Mist (RAL 7001)”, “Anthracite (RAL 7043)”, “Cedar (RAL1019)”, “Beige Grey (RAL 7006)”, “Anthracite Grey (RAL 7016)”, “Dusty Grey (RAL 7037)”, “Clay Brown (RAL 8003)”, “Sepia Brown (RAL 8014)”, “Chocolate Brown (RAL 8017)”, “Grey Brown (RAL 8019)”, “Stone Grey (RAL 7030)”, “Quartz Grey (RAL 7039)” and “Window Grey (RAL 7040)”
- Number of coats : One (no variation allowed)
- Coating thickness: 80 microns (no variation allowed)
- Coating application rate: 167g/m² (no variation allowed)
- Coating application method: Electrostatically applied (no variation allowed)
- Coating curing process: Heated to 180°C (no variation allowed)
- Aluminium wall thickness: 1.5mm (no variation allowed)
- Aluminium weight per unit area: 8.9kg/m² (no variation allowed)
- Use of flame retardants: No variation allowed
- Construction: No variation allowed
- Composition: No variation allowed

4.4 Fire performance parameters for A2 - s1, d0

All the products described in Section 2.2 and within the field of application defined in Section 4.3 comply with the fire performance parameters shown in Table 6. The test results can be found in Section 3.2.

Table 6 Fire performance parameters for A2 - s1, d0

Test method	Parameter	Continuous parameters	Compliance with parameters
EN 13823: 2020 + A1: 2022	FIGRA (THR(t) threshold of 0.2MJ)	FIGRA _{0,2MJ} ≤ 120 W/s	-
	FIGRA (THR(t) threshold of 0.4MJ)	-	-
	THR _{600s} (MJ)	THR _{600s} ≤ 7,5 MJ	-
	Lateral flame spread to edge of test specimen?	-	LFS < edge of specimen
	SMOGRA (m ² /s ²)	SMOGRA ≤ 30m ² /s ²	-
	TSP _{600s} (m ²)	TSP _{600s} ≤ 50m ²	-
	Fall of flaming droplets/particles < 10s?	-	No flaming droplets/particles persisting shorter than 10 s in EN 13823 within 600s
	Fall of flaming droplets/particles > 10s?	-	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s
EN ISO 1716: 2018	Average gross heat of combustion for substantial components of non-homogenous products, Q _{PCS} (MJ/kg)	PCS ≤ 3,0 MJ/kg	-
	Average gross heat of combustion per unit area for any external non-substantial component of non-homogenous products, Q _{PCS} (MJ/m ²)	PCS ≤ 4,0 MJ/m ²	-
	For the product as a whole, (MJ/kg)	PCS ≤ 3,0 MJ/kg	-

Note: '-' symbol confirms this parameter is not applicable.

5. Restrictions

At the time the standard EN 13501-1: 2018 was published, no decision was made about the duration of validity of a classification report.

When this report is used to support UKCA marking under the Construction Products Regulation 2011 (retained EU law EUR 2011/305) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 and/or 'CE+UK(NI)' marking for Northern Ireland under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011, the provisions of those regulations prevail over any conflicting provisions in the designated/harmonised standards and technical specifications.

6. Limitations

According to the information mentioned by the sponsor on the technical information sheet there was no harmonised product standard for UKCA or CE+UK(NI) marking available at the time the classification report for the tested material/product was drafted. When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for UKCA or CE+UK(NI) marking.

The test laboratory played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

7. Validity

This document is the original version of this classification 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 classification results relate to the behaviour of a product under the particular conditions of the test(s); they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use, nor can the classification results be extrapolated and applied to other products, or imply suitability for use in configurations not specifically detailed in the classification report. The classification is based on the information available to Warringtonfire at the time of the report. Should conflicting or contradictory evidence become available, Warringtonfire reserves the right to unconditionally withdraw the classification report forthwith upon giving written notice of the same.

Reports are statements of fact prepared in accordance with the referenced version of the standards stated in Section 3 of this report. Test, classification and extended application 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 classification report apply to the test specimens as received and/or specified in the referenced/supporting test reports. Any differences in composition, production process, thickness, density or colour of the product may significantly affect the performance and will therefore invalidate the application of the test and classification results to the variant product. It is recommended that any proposed variation to the tested configuration or product should be referred to the sponsor. The 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.

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This document does not represent type approval or certification of the product. Warringtonfire does not give an opinion nor is it Warringtonfire's responsibility to determine or state whether the product meets any particular fire or life safety standards as set out in the Building Regulations or any other appropriate document.



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Notified Body Number 1173

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Approved Body Number 0833

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