

# Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and  
Certification Limited

Classification standard: EN 13501-1: 2018

Report owner(s): EnviroDeck t/a CompDeck UK

Product(s): "Wall Cladding ST 107.5 x 20mm"

Report number: 530551

Version: 1

## Quality management

Version	Date	Summary of amendments including reasons	
1	18 October 2023	Description	Initial issue
		Prepared by	
		Authorised by	
		Name	Michael Walford
		Signature	
			
*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 "Wall Cladding ST 107.5 x 20mm", 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 report owner listed in Table 1.

**Table 1 Report owner details**

Entity	Address
<b>Report owner</b>	
EnviroDeck t/a CompDeck UK	42a Aston Road, Waterlooville, Hampshire, PO7 7XG, United Kingdom

## 2. Details of classified product

### 2.1 General

The product(s), "Wall Cladding ST 107.5 x 20mm", are defined as being suitable for construction applications excluding floorings and linear pipe thermal insulation.

### 2.2 Product description

The product(s), "Wall Cladding ST 107.5 x 20mm", are described in Table 2 and in the test reports listed in Section 3.1.

**Table 2 Product description**

Item	Detail
General description	High density polyethylene wall cladding
Product reference	"Wall Cladding ST 107.5 x 20mm"
Detailed description / composition details	55% wood powder + 35% HDPE (High Density Polyethylene) and other 10% chemical additives
Name of manufacturer	Shanghai Seven Trust Industry Co., Ltd
Thickness	5mm (stated by sponsor)
Density	1.35 g/cm <sup>3</sup>
Profile thickness	20mm
Colour (as tested)	"Natural", "Charcoal" and "Teak"
Permitted colours	"Teak", "Grey", "Charcoal", "Natural" and "Olive"
Flame retardant details	<b>See Note 1 below</b>
Mounting and fixing	The specimens were tested with a 9 mm thick plywood substrate (as specified in EN 13238: 2010) present
Brief description of manufacturing process	The material is extruded from the unique high pressure and temperature machine from specially designed mould

**Note 1** – The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product

## 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	EnviroDeck t/a CompDeck UK	530280	18 March & 04 April 2023	EN ISO 11925-2: 2020
Warringtonfire	EnviroDeck t/a CompDeck UK	530278	18 March 2023	
Warringtonfire	EnviroDeck t/a CompDeck UK	530279	18 March 2023	
Warringtonfire	EnviroDeck t/a CompDeck UK	530552	-	CEN/TS 15117: 2005 EN 15725: 2023

### 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 E can be found in Table 7.

**Table 4 Test data**

Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN ISO 11925-2: 2020 (30s exposure - Surface) 530280	Fs ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (30s exposure - Edge) 530280	Fs ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant

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 ISO 11925**

Product name Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
Project specification; “Natural” colour - Surface; 530280	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; “Natural” colour - Edge; 530280	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; “Teak” colour – Surface; 530278	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; “Teak” colour - Edge; 530278	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; “Charcoal” colour - Surface; 530279	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; “Charcoal” colour - Edge; 530279	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
(*) The results of this sample were re-used in the official test report No. 530280 (as test specimen 1).				

Note: ‘-’ symbol confirms this parameter is not applicable.

## 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 "Wall Cladding ST 107.5 x 20mm" in relation to its reaction to fire behavior is classified as:

E

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

#### Fire behaviour

E

Alternatively shown:

#### Reaction to fire classification: E

### 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 6

**Table 6 End-use applications**

End use	Description	Origin
Substrate	Any wood based substrate with a density equal to or greater than 337.5kg/m <sup>3</sup> , having a minimum thickness of 8mm and a fire performance of D-s2, d0 or better, or any substrate with a density equal to or greater than 337.5kg/m <sup>3</sup> , having a minimum thickness of 8mm and a fire performance of A2-s1, d0 or better.	As per EN 13238: 2010, clause 5.3 and EGOLF recommendation 045-2018.
Air Gap	No air gap	N/A

This classification is valid for the following product parameters:

- Thickness: No variation allowed
- Profile thickness: No variation allowed
- Density: No variation allowed
- Colour: 'Teak', 'Grey', 'Charcoal', 'Natural' and 'Olive' only, no further variation allowed (EGOLF 003-2016 Second Choice)
- Construction: No variation allowed
- Composition: No variation allowed

## 4.4 Fire performance parameters for E

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 7. The test results can be found in Section 3.2.

**Table 7 Fire performance parameters for E**

Test method	Parameter	Continuous parameters	Compliance with parameters
EN ISO 11925-2: 2020 (30s exposure)	Extent of flame spread	-	Fs ≤ 150 mm within 20 s
	Flaming droplets / particles that ignite filter paper	-	No ignition of the paper

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.

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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 report owner. The report owner 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.



**Registered office:**

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

**Name & address of issuing laboratory:**

**Warringtonfire Testing and Certification Limited**  
Holmesfield Road, Warrington WA1 2DS, United Kingdom

**Reaction to Fire laboratory locations:**

**Frankfurt, Germany**

DAkkS accredited laboratory D-PL-18354-01-00  
T: +49 69 506 089445  
Notified Body Number 1378

**Ghent, Belgium**

BELAC accredited laboratory 196-TEST  
T: +32 9 243 77 50  
Notified Body Number 1173

**Melbourne, Australia**

NATA accredited laboratory 3277  
T: +61 3 9767 1000

**Warrington, United Kingdom**

UKAS accredited laboratory 0249  
T: +44 (0) 1925 655 116  
Approved Body Number 0833

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