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Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and Certification Limited

Classification standard:	EN 13501-1: 2018
Sponsor(s):	Plaskolite Israel
Product(s):	"TUFFAK UV"
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egolf

Approved Body Number 0833

Quality management

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1. Introduction

This classification report defines the classification assigned to "TUFFAK UV", 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	
Plaskolite Israel	Kibbuta Gazit, 19340, Israel

2. Details of classified product

2.1 General

The product(s), "TUFFAK UV", are defined as being suitable for construction applications excluding floorings and linear pipe thermal insulation applications.

The related harmonised product standard is EN 16240: 2013.

2.2 Product description

The product(s), "TUFFAK UV", are described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

Item		Detail
General description		Ultra violet (UV) polycarbonate sheet (R8000W)
Product reference		“TUFFAK UV”
Name of manufacturer		Plaskolite
Overall thickness		6mm (stated by sponsor) 6.06mm (determined by Warringtonfire)
Overall weight per unit area		7.2kg/m^2 (stated by sponsor) 7.13kg/m^2 (determined by Warringtonfire)
UV coating (applied to each face)	Generic type	Ultraviolet coating
	Product reference	“GP UV Stabilizer Cap Layer”
	Name of manufacturer	See Note 1 below
	Colour	Clear
	Thickness	See Note 1 below
	Application rate	See Note 1 below
	Flame retardant details	See Note 2 below
Polycarbonate sheet	Generic type	Polycarbonate
	Product reference	“R8000W”
	Name of manufacturer	Plaskolite
	Colour	Clear
	Thickness	6mm
	Weight per unit area	7.2kg/m^2
	Flame retardant details	See Note 2 below

Continued on next page

Item	Detail
Brief description of manufacturing process	Calendar extrusion
Mounting and fixing details	The specimens were mounted, according to the requirements of EN 16240:2013, Clause 5.7.3.3, in a right-angled frame made of steel. A backing frame was put behind each wing and held in place mechanically at three points by pressure. A maximum ventilated cavity was situated between the reverse face of the specimens and the calcium silicate backing board as defined in EN 13238:2010

Note 1. The sponsor of the test was unwilling to provide this information.

Note 2: 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	Plaskolite Israel	555745	24 November 2025 & 30 April 2026	EN 13823: 2020 + A1: 2022
Warringtonfire	Plaskolite Israel	555746	22 April 2026	EN ISO 11925-2: 2020

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 B - s2, d0 can be found in Table.

Table 4 Test data

Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN 13823: 2020 + A1: 2022 555745	FIGRA (THR(t) threshold of 0.2MJ) (W/s)	3	73	-
	FIGRA (THR(t) threshold of 0.4MJ) (W/s)		59	-
	THR_{600s} (MJ)		2.0	-
	LFS < edge of specimen		-	Compliant
	SMOGRA (m^2/s^2)		12	-
	TSP_{600s} (m^2)		51	-
	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 11925-2: 2020 (30s exposure - Surface) 555746*	Fs ≤ 150 mm within 60 s	6	-	Compliant
	No ignition of the paper		-	Compliant

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

* EN 16240: 2013 requires only the surface of the product to be tested

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 "TUFFAK UV" in relation to its reaction to fire behavior is classified as:

B

The additional classification in relation to smoke production is:

s2

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

d0

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

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	2	,	d	0
This classification document does not represent type approval or certification of the product						

Alternatively shown:

Reaction to fire classification: B - s2, d0

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

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 5.

Table 5 End-use applications

End use	Description	Origin
Joints	No joints permitted	-
Airgap	Freestanding	According to EN 13823: 2020 + A1: 2022, clause 5.2.2.a.
Sub frame	Mounted in steel frame (as described)	As per EN 16240:2013, clause 5.7.3.3

This classification is valid for the following product parameters:

- Overall thickness: 6mm (no variation allowed)
- Overall weight per unit area: 7.2kg/m^2 (no variation allowed)
- UV coating thickness per face: No variation allowed (no variation allowed)
- UV coating application rate per face: No variation allowed (no variation allowed)
- UV coating colour: Clear (no variation allowed)
- Polycarbonate thickness: 6mm (no variation allowed)
- Polycarbonate weight per unit area: 7.2kg/m^2 (no variation allowed)
- Polycarbonate colour: Clear (no variation allowed)
- Use of flame retardant: No variation allowed
- Construction: No variation allowed
- Composition: No variation allowed

4.4 Fire performance parameters for B - s2, 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 B - s2, d0

Test method	Parameter	Continuous parameters	Compliance with parameters
EN 13823: 2020 + A1: 2022	FIGRA (THR(t) threshold of 0.2MJ) (W/s)	$FIGRA_{0,2MJ}$ ≤ 120 W/s	-
	FIGRA (THR(t) threshold of 0.4MJ) (W/s)	-	-
	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 ≤ 180m^2/s^2	-
	TSP_{600s} (m^2)	TSP_{600s} ≤ 200m^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 11925-2: 2020 (30s exposure)	Extent of flame spread	-	Fs ≤ 150 mm within 60 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

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

The classification assigned to the product in this report is appropriate to a Declaration of Performance (DoP) by the manufacturer within the context of System 3 of AVCP and 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, laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for 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 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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