

Reaction to fire classification report

Issuing laboratory: WFRGENT NV

Classification standard: EN 13501-1: 2018

Sponsor(s): WESTLAKE TAPCO EUROPE LIMITED

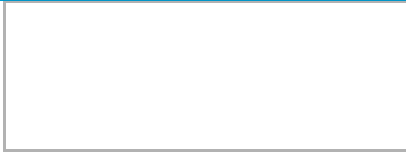
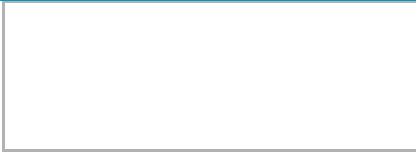
Product(s): DaVinci Select Shake

Report number: 23675D

Version: 1

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

Quality management

Version	Summary of amendments including reasons	
1	Description	Initial issue
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*Signed for and on behalf of WFRGENT NV		

The authenticity of the electronic signatures is assured by Belgium Root CA.

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1. Introduction

This classification report defines the classification assigned to DaVinci Select Shake, in line with the procedures given in EN 13501-1: 2018.

WFRGENT NV (Warringtonfire) issued the classification report at the request of the sponsor listed in Table 1.

Table 1 Sponsor details

Entity	Address
Sponsor	
WESTLAKE TAPCO EUROPE LIMITED	Unit 32 Tokenspire Business Park Beverley - East Yorkshire, Hull Road, Woodmansey HU17 0TB United Kingdom

2. Details of classified product

2.1 General

The product(s), DaVinci Select Shake, are defined as being suitable for construction applications excluding floorings and linear pipe thermal insulation.

The related harmonised European Assessment Document is EAD 220006-00-0402.

2.2 Product description

The product(s), DaVinci Select Shake, are described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

DaVinci Select Shake		Nominal values (1)
Type of product	Roofing tiles made of polyethylene and fillers	
Manufacturer/Supplier	Westlake DaVinci Roofscapes LLC	
Total thickness (mm)	16 (max thickness due to the ribs) to 5 (minimal thickness, no ribs)	
Type of shape	Wedge shaped	
Total surface mass (kg/m ²)	8,9	
Total density (kg/m ³)	1480	
Colour	brown/grey	
Surface texture	Ribbed	
Use of fire retardants	Yes (CaCO ₃)	
Amount of fire retardants (weight %)	58	

(1) Based on the information given by the sponsor

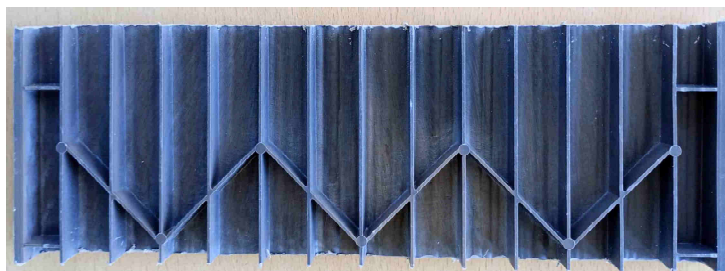


Figure 1: backside of DaVinci Select Shake

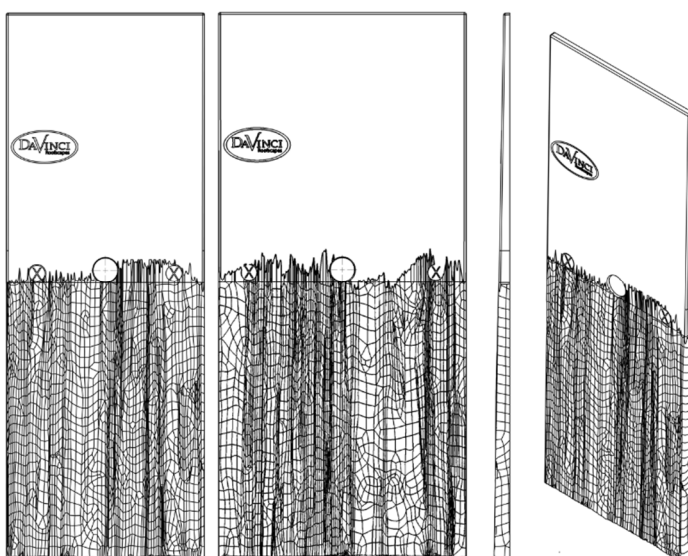


Figure 2: technical drawing of the DaVinci Select Shake



Figure 3: DaVinci Select Shake (left – lengthwise direction; right – crosswise direction)

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	WESTLAKE TAPCO EUROPE LIMITED	23675C	24 July 2024	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 E can be found in Table 5.

Table 4 Test data

Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN ISO 11925-2: 2020 (15s exposure - Surface) 23675C	F _s ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (15s exposure - Edge) 23675C	F _s ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant

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 DaVinci Select Shake 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 product as such with the fire exposed side as shown in Figure 3.

This classification is valid for the following product parameters:

- Total thickness: 5 mm (minimal thickness no ribs) and 16 mm (thickness including ribs) (see Figure 1)
- Total surface mass: 8,9 kg/m²
- Total density: 1480 kg/m³
- Colour: brown/grey (see Figure 3)
- Surface texture: Ribbed (see Figure 3)
- Use of flame retardants: Yes (CaCO₃) in an amount of 58 weight %

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

Table 5 Fire performance parameters for E

Test method	Parameter	Continuous parameters	Compliance with parameters
EN ISO 11925-2: 2020 (15s 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.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonised standards and technical specifications.

6. Limitations

The classification assigned to the product in this report is appropriate for a Declaration of Performance (DoP) by the manufacturer within the context of System 3 of AVCP and CE marking 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.

Annex ZA of the harmonised European Assessment Document declares that a System 3 Assessment and Verification of Constancy of Performance (AVCP) is sufficient for the classification achieved by this product, whether or not the fire performance was enhanced during the production process. Therefore, no such declaration has been made by the manufacturer for this specific product and classification.

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 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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