



# Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and Certification Limited

Classification standard: EN 13501-1: 2018

Sponsor(s): Westlake Royal Building Products

Product(s): "Royal Crest Double 4 Traditional"

Report number: 532688

Version: 1

## Quality management

Version	Date	Summary of amendments including reasons	
1	13 March 2024	<b>Description</b>	<b>Initial issue</b>
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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 "Royal Crest Double 4 Traditional", 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 Sponsor details**

Entity	Address
<b>Report owner</b>	
Westlake Royal Building Products	91 Royal Group Crescent, Woodbridge, Ontario, L4H 1X9, Canada

## 2. Details of classified product

### 2.1 General

The product(s), "Royal Crest Double 4 Traditional", are defined as being suitable for construction applications and flooring applications.

### 2.2 Product description

The product(s), "Royal Crest Double 4 Traditional", are described in Table 2 and in the test reports listed in Section 3.1.

**Table 2 Product description**

Item	Detail
General description	Exterior vinyl extruded poly vinyl chloride cladding
Product reference	"Royal Crest Double 4 Traditional"
Name of manufacturer	Westlake Royal Building Products
Thickness	1.016mm (0.040 inches)
Density	1.39 g/cm <sup>3</sup>
Colour reference (as tested)	"Cyprus", "White", "Blue Gray", "Harvard Slate" and "Vintage Cream"
Colour (as tested)	"Light Green", "White", "Blue Grey", "Grey" and "Cream" respectively
Flame retardant details	<b>See Note 1 below</b>

Continued on next page

Item	Detail
Diagram of product	
Brief description of manufacturing process	Polyvinyl chloride siding extrusion

Note 1 – The sponsor was unwilling to provide this information

### 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 Royal Building Products	532597	26 May & 28 June 2023	EN ISO 11925-2: 2020
Warringtonfire	Westlake Royal Building Products	539787	29 January 2024	
Warringtonfire	Westlake Royal Building Products	539788	29 January 2024	
Warringtonfire	Westlake Royal Building Products	532594 (Issue 2)	26 May 2023	
Warringtonfire	Westlake Royal Building Products	532595 (Issue 2)	26 May 2023	
Warringtonfire	Westlake Royal Building Products	532689	-	

## 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 / E<sub>FL</sub> 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 ISO 11925-2: 2020 (30s exposure - Surface) 532597	F <sub>s</sub> ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (30s exposure - Edge) 532597	F <sub>s</sub> ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (15s exposure - Surface) 539787	F <sub>s</sub> ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (15s exposure - Edge) 539787	F <sub>s</sub> ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (15s exposure - Surface) 539788	F <sub>s</sub> ≤ 150 mm within 20 s	6	-	Compliant
	No ignition of the paper		-	Compliant
EN ISO 11925-2: 2020 (15s exposure - Edge) 539788	F <sub>s</sub> ≤ 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; 'Light Green' colour; (30s exposure - Surface) 532597*	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'Light Green' colour; (30s exposure - Edge) 532597*	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'White' colour; (30s exposure - Surface) 532594 (Issue 2)	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'White' colour; (30s exposure - Edge) 532594 (Issue 2)	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'Blue Gray' colour; (30s exposure - Surface) 532595 (Issue 2)	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'Blue Gray' colour; (30s exposure - Edge) 532595 (Issue 2)	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'Harvard Slate' colour; (15s exposure - Surface) 539787*	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'Harvard Slate' colour; (15s exposure - Edge) 539787*	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'Vintage Cream' colour; (15s exposure - Surface) 539788*	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant
Project specification; 'Vintage Cream' colour; (15s exposure - Edge) 539788*	Fs ≤ 150 mm within 20 s	1	-	Compliant
	No ignition of the paper		-	Compliant

(\* ) The results of these samples were re-used in the official test report No.s 532597, 539787 and 539788 (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 "Royal Crest Double 4 Traditional" in relation to its reaction to fire behavior is classified as:

E / E<sub>FL</sub>

The format of the reaction to fire classification for construction applications, and flooring application products is:

#### Fire behaviour

E / E<sub>FL</sub>

Alternatively shown:

#### Reaction to fire classification: E / E<sub>FL</sub>

### 4.3 Field of application

The classification for the product described in Section 2.2 of this report is valid for product as such.

This classification is valid for the following product parameters:

- Thickness: 1.016mm (0.040 inches) (No variation allowed)
- Density: 1.39 g/cm<sup>3</sup> (No variation allowed)
- Colour: "Cyprus", "White", "Blue Gray", "Vintage Cream", "Linen", "Sand", "Flagstone", "Brownstone", "Sterling", "Heather", "Soft maple", "Wicker", "Harvard Slate" and "Pebble Clay" colours allowed, no further variation allowed
- Construction: No variation allowed
- Composition: No variation allowed



## 4.4 Fire performance parameters for E / E<sub>FL</sub>

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 E / E<sub>FL</sub>**

Test method	Parameter	Continuous parameters	Compliance with parameters
EN ISO 11925-2: 2020 (30s exposure)	Extent of flame spread	-	F <sub>s</sub> ≤ 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 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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