

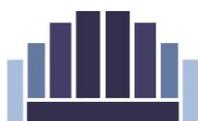
CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH BS EN 13501-1:2018

Test Sponsor:

Terreal
Antipolis Bat. B – 37, Avenue Normandie
Niemen BP 13 - 31701 Blagnac cedex
France
T: +33 (0)5 34 36 21 03
Website: www.terrealfacade.com

Test Material / Assembly:

18mm thick 'Piterak XS' Terracotta Tiles



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Issue Date: 09-Dec-20
Classification Report Reference No.: UB054-3

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DUBAI

ABU DHABI

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Accreditation

Testing

ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories with:

United Kingdom Accreditation Service (UKAS) - Testing Laboratory: **4439**
www.ukas.com



Memberships

Members of European Group of Organization for Fire Testing, Inspection and Certification

www.egolf.org.uk

Member of Association for Specialist Fire Protection

www.asfp.org.uk

Member of Centre for Window and Cladding Technology

www.cwct.co.uk



The work which is the subject of this report falls under the accreditation of **ISO 17025 UKAS**.



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1. INTRODUCTION

This classification report defines the classification assigned to 18mm thick 'Piterak XS' Terracotta Tiles as described in Section 4 in accordance with the procedures given in BS EN 13501-1:2018: Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests.

2. SPONSOR

Name: Terreal
Address: Antipolis Bat. B – 37, Avenue Normandie
Niemen BP 13 - 31701 Blagnac cedex
France
T: +33 (0)5 34 36 21 03
Website: www.terrealfacade.com

3. TESTING LABORATORY

Name: Thomas Bell-Wright International Consultants (TBWIC)
Address: Corner of 46th and 47th Streets,
Jebel Ali Industrial Area 1
Dubai, UAE
T: +971 4 821 5777
Website: www.bell-wright.com

4. DETAILS OF CLASSIFIED PRODUCT

4.1. Product Description

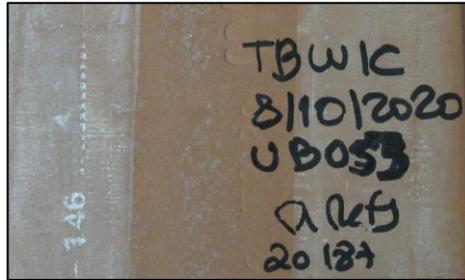
Note: The testing laboratory does not hold any responsibility for the information that has been provided by the test sponsor which could not be verified by the testing laboratory, as this could affect the validity of the test result. All information that could not be verified will be indicated by an asterisk () mark.*

Product Reference	Piterak XS
Product Description	18mm thick ventilated terracotta tiles
Manufacturer	Sociedade Ceramica De Ladrilhos, S.A.*
Thickness	18mm (Measured by TBWIC)
Area Density	29.3 kg/m ² (Measured by TBWIC)
Mass Density	2100 kg/m ³ * (stated)



5. SPECIMEN VERIFICATION

TBWIC Testing Laboratory has not been involved in the selection or design of the specimen. However, the tiles were selected, marked, and signed by a representative from TBWIC (Certification Body) on 08-Oct-20 as shown below. The results apply to the sample as received.



Note: There are contexts where information has been provided by the sponsor and verification of information has been done through either technical datasheets or other document submission, or as indicated directly by the sponsor. For this reason, materials have been tested in an as-received condition and TBWIC bears no liability for the legitimacy of the submitted information.

6. REPORT & TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

6.1. Reports

Name of Laboratory	Test Sponsor	Test Report No.	Test Method/Field of Application Rules
Thomas Bell-Wright International Consultants (TBWIC)	Terreal	UB054-1	BS EN ISO 1716:2018
		UB054-2	BS EN ISO 1182:2010

6.2. Results

Test Method	TEST PARAMETERS	No. of tests	TEST RESULTS		
			Continuous parameter-mean (m)	Compliance parameters	
BS EN ISO 1182:2010	Mass loss \leq 50%	5	0	Compliant	
	Furnace thermocouple rise \leq 30°C	5	3	Compliant	
	Sustained flaming occurred, $t_f = 0$ sec	5	0	Compliant	
BS EN ISO 1716:2018	PCS \leq 2.0 MJ/kg (for Homogenous products)	Terracotta	3	-0.6	Compliant



7. CLASSIFICATION & FIELD OF APPLICATION

7.1. Reference of classification

This classification has been carried out in accordance with Clause 8 of BS EN 13501-1:2018.

7.2. Classification

The product, 18mm thick 'Piterak XS' Terracotta Tiles, in relation to its reaction to fire behavior are classified;

Reaction to Fire Classification: A1

7.3. Field of application

This classification is valid for the following end use applications:

- i. Construction applications

This classification is also valid for the following product parameters:

Product Density	No variation allowed
Product Thickness	No variation allowed
Product Composition	No variation allowed
Product Construction	No variation allowed

8. LIMITATIONS

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

This report and all records of the test to which it relates may be not be retained by TBWIC further than 5 years from the date of testing.

This test report is respectfully submitted by: Thomas Bell-Wright International Consultants

Prepared by:

Sam Sancho Thomas
Fire Compliance Engineer

Reviewed & Approved by:

Suketa Tyagi
Reaction to Fire - Manager





9. ANNEXURE A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 ^a and	$\Delta T \leq 30 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2,0 \text{ MJ/kg}^a$ and $PCS \leq 2,0 \text{ MJ/kg}^{b,c}$ and $PCS \leq 1,4 \text{ MJ/m}^2^d$ and $PCS \leq 2,0 \text{ MJ/kg}^e$	-
A2	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0 \text{ MJ/kg}^a$ and $PCS \leq 4,0 \text{ MJ/m}^2^b$ and $PCS \leq 4,0 \text{ MJ/m}^2^d$ and $PCS \leq 3,0 \text{ MJ/kg}^e$	-
	EN 13823	$FIGRA \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7,5 \text{ MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$FIGRA \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7,5 \text{ MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ : Exposure = 30 s	$F_s \leq 150 \text{ mm}$ within 60 s	
C	EN 13823 and	$FIGRA \leq 250 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 15 \text{ MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ : Exposure = 30 s	$F_s \leq 150 \text{ mm}$ within 60 s	
D	EN 13823 and	$FIGRA \leq 750 \text{ W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ : Exposure = 30 s	$F_s \leq 150 \text{ mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	Flaming droplets/particles ^h
F	EN ISO 11925-2 ⁱ : Exposure = 15 s	$F_s \geq 150 \text{ mm}$ within 20 s	Flaming droplets/particles ^h

^a For homogeneous products and substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

^c Alternatively, any external non-substantial component having a $PCS \leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: $FIGRA \leq 20 \text{ W/s}$, and $LFS < \text{edge of specimen}$, and $THR_{600s} \leq 4,0 \text{ MJ}$, and s_1 , and d_0 .



^d For any internal non-substantial component of non-homogeneous products.

^e For the product as a whole.

^f In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

s1 = SMOGRA $\leq 30\text{m}^2/\text{s}^2$ and TSP_{600s} $\leq 50\text{m}^2$;

s2 = SMOGRA $\leq 180\text{m}^2/\text{s}^2$ and TSP_{600s} $\leq 200\text{m}^2$;

s3 = not s1 or s2

^g **d0** = No flaming droplets/ particles in EN 13823 within 600 s;

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

^h Pass = no ignition of the paper (no classification);

Fail = ignition of the paper (d2 classification).

ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

---- End of Classification Report ----