

## CLASSIFICATION REPORT

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<b>PAGE</b>	<b>The report consists of 8 pages consecutively numbered, an annex of 1 page.</b>	
<b>TEST SPECIMEN</b>	<b>Type: FLOOR COVERING</b> <b>Reference: "GAMA TECHLAM®"</b>	
<b>CONCERNING TO</b>	<b>CLASSIFICATION OF FIRE PERFORMANCE OF CONSTRUCTION PRODUCTS AND BUILDING ELEMENTS. CLASSIFICATION USING DATA OBTAINED IN REACTION TO FIRE TESTS.</b> <b>ACCORDING TO STANDARD UNE-EN 13501-1:2019</b>	
<b>APPLICANT</b>	<b>LEVANTINA Y ASOCIADOS DE MINERALES, S.A.</b> <b>AUTOVIA MADRID-ALICANTE, KM 382</b> <b>03660 NOVELDA (ALICANTE)- SPAIN</b>	
<b>DATE/S OF TEST</b>	<b>Reception of specimens :</b>	<b>27/05/2020 and 19/06/2020</b>
	<b>Beginning of tests :</b>	<b>03/06/2020</b>
	<b>End of tests :</b>	<b>30/06/2020</b>

### AUTHORIZED SIGNATORIES



**AIDIMME**

Signed.: Mrs. Raquel Cánovas Ruiz  
Fire Lab Technician



**AIDIMME**

Signed.: D. Stephane García Malpartida  
Head of Section – Fire Lab

Document digitally signed by a legal electronic signature

The test sample object of this report will remain in AIDIMME for a period of thirty days from the date of issuance thereof. After this period, the sample will be destroyed, so any claim must be carried out within these limits.

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## 1. INTRODUCTION

This classification report defines the classification assigned to the product described in paragraph 2, in accordance with the procedures pointed in the UNE-EN 13501-1:2019 "Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests".

## 2. PRODUCT DATA CLASSIFIED

### 2.1. Inspection prior to test by the laboratory.

#### **Test gross heat**

Sample corresponding to a piece of porcelain surface, a piece of mesh and a resin pot.

#### **Test SBI**

Samples corresponding to a panel composed of porcelain material (in two different thicknesses), mesh and resin. The samples are labelled with the following reference 2005196-01 and 2005196-02.

### 2.2. Description and Identification of the test item. Inspection prior to test..

Samples corresponding to a range (limiting parameters: color (organic content) and thickness) of 3 or 5 mm thickness porcelain material with different colors, types of textures (natural, matte, satin, bush hammered and non-slip) on the back of which a fiberglass mesh with a linear density of 202 g/m<sup>2</sup> is adhered with 208 g/m<sup>2</sup> of resin. The set has range thicknesses between 3.5 and 5.5 mm and a density of 2360 Kg/m<sup>3</sup>. The set is glued to a standardized calcium fibrosilicate support (density 870±50 kg/m<sup>3</sup>, reaction to fire class A2-s1, d0 and 11±2 mm thick according to UNE-EN 13238: 2011 standard) with "Ultraelastic S2" cementitious adhesive from Mapei (type C2 E S2 according to UNE-EN 12004 and ISO 13007-1) and with grouting mortar "Ultracolor Plus" from Mapei with CG2WA classification according to EN 13888, all this according to the information provided by the client.

The direct applicability of the fire reaction classification, according to classification standard UNE EN 13501-1, may be valid for all the products within the same family, if as family we mean the range of products within defined limits of variability of their parameters, for which it can be shown that the fire reaction classification does not change.

Thus, it is intended to classify a range of products where a selection is made based on the parameters contemplated by the range (colour (organic content) and thickness). According to customer information, the range to be tested basically consists of:

- Colour: Basic Collection, Hydra Collection, Vulcano Collection, Stone Collection, Industrial Collection, Deco Collection y Wood Collection.
- Thickness: Range between 3 and 5 mm

The tests, as well as the specimen selection are carried out taking as reference the different protocols defined by Sector Group SH02 (European body which coordinates all the aspects related to CE marking regarding the fire performance), and more specifically taking as reference document NB-CDP/SH02/06/029 "Classification following extended application: All specifications covering reaction to fire performance").

Likewise, also are used as reference documents, the document CEN/TS 15117:09 "Guidance on direct and extended application" and the recommendations given in the document EN

15725:2011/AC:2012 “Extended application reports on the fire performance of construction products and building elements”.

Based on the above recommendations and the information provided by the customer a representative selection of products within the testing planning was done:

- Colour (organic content): higher organic content
- Thickness: maximum and minimum (5 and 3 mm)

The classification shall be valid for all the products in the range as long as in the selected products the performance obtained can be reached by all the other products in the same classification.

The commercial references of the selected walls coverings according to the customer are:

- “PORCELANICO 3MM”  
(Ref. AIDIMME: 2005196-01)
- “PORCELANICO 5MM”  
(Ref. AIDIMME: 2005196-02)

The range of products, according to the information provided by the customer, is referenced as:

- “RANGE TECHLAM®”

### 3. TEST REPORTS SUPPORTING THE CLASSIFICATION

Laboratory	Company/Customer	Test report reference	Test method
AIDIMME	LEVANTINA Y ASOCIADOS DE MINERALES, S.A.	251.I.2007.051.ES.01	UNE-EN ISO 9239-1:11
AIDIMME	LEVANTINA Y ASOCIADOS DE MINERALES, S.A.	251.I.2007.051.ES.01	UNE EN ISO 11925-2:11

#### 4. TEST RESULTS SUPPORTING THE CLASSIFICATION

Test method	Parameter	Number of tests	Results	
			Average of continuous parameter (m)	Parameter it has to fulfill
UNE EN ISO 9239-1:11 (radiant panel)	CHF / HF (kW/m <sup>2</sup> )	1	≥11	Not applicable
“PORCELANICO 3MM” Ref. AIDIMME: 2005196-01	Light attenuation (% x min)		7,8	Not applicable

Test method	Parameter	Numer of test	Results	
			Average of continuous parameter (m)	Parameter it has to fulfill
UNE EN ISO 1716:11 (gross heat)	PCS (MJ/Kg)	3	0,4	Not applicable
“PORCELANA” Ref. AIDIMME: 2005090-01				
UNE EN ISO 1716:11 (gross heat)	PCS (MJ/m <sup>2</sup> )	3	3,6	Not applicable
“RESINA” Ref. AIDIMME: 2005196-01				
UNE EN ISO 1716:11 (gross heat)	PCS (MJ/m <sup>2</sup> )	3	0,2	No aplicable
“MALLA” Ref. AIDIMME: 2005196-01				
UNE EN ISO 1716:11 (gross heat)	PCS (MJ/Kg)	3	0,4	No aplicable
“CONJUNTO” Ref. AIDIMME: 2005196-01				

Test method	Parameter	Number of tests	Results	
			Average of continuous parameter (m)	Parameter it has to fulfill
UNE EN ISO 9239-1:11 (radiant panel)	CHF / HF (kW/m <sup>2</sup> )	3	≥11	Not applicable
“PORCELANICO 5MM” Ref. AIDIMME: 2005196-02	Light attenuation (% x min)		70,8	Not applicable

**Note:** The laboratory has estimated the uncertainties of the tests, which are available to the client.

## 5. CLASSIFICATION AND SCOPE

### 5.1. Classification.

The direct applicability of the fire reaction classification, according to classification standard UNE EN 13501-1, may be valid for all the products within the same family, if as family we mean the range of products within defined limits of variability of their parameters, for which it can be shown that the fire reaction classification does not change.

The classification is valid for all the products of the range since in the representative specimens selected according to the protocol defined by Sector Group SH02 (taking as reference document NB-CDP/SH02/06/029, document CEN/TS 15117:05 and document UNE EN 15725:11/AC:2012), a similar performance and the same classification are obtained.

Therefore, according to standard UNE-EN 13501-1:2019, and view of the test results and the classification criteria are attached at the Annex (table 1 of the mentioned standard), the simple described in section 2.1 of this report, all according to the information provided by the customer and referenced by the same "RANGE TECHLAM®" is classified in relation to the fire behavior as:

Reaction to fire	Smoke production
A2 fl	s1

### 5.2. Scope

The classified product is defined for the use: floors coverings.

This classification can be affected if any following influence parameters are modified:

#### 5.2.1 Parameter of the product

- Thickness: Range between 3,5 and 5,5 mm. Variations not allowed
- Colour: Basic Collection, Hydra Collection, Vulcano Collection, Stone Collection, Industrial Collection, Deco Collection y Wood Collection.
- Density: 2360 Kg/m<sup>3</sup>
- Resin component: 208 g/m<sup>2</sup>
- Mesh component: 202 g/m<sup>2</sup>

#### 5.2.2 End use applications

- Joins: vertical and horizontal joints are allowed
- Fixing: cementitious adhesive "Ultraelastic S2" of *Mapei* with C2 E S2 classification (EN 12004 and ISO 13007-1) and grouting mortar "Ultracolor Plus" of *Mapei* with classification CG2WA (EN 13888).
- Substrate: Applications on any substrate with a density equal or higher to 652.5 Kg/m<sup>3</sup> with a minimum thickness of (11±2) mm and Reaction to Fire A2-s1,d0 or better.

## 6. LIMITATIONS

The result of this report only refers to the products described in paragraph 2 thereof.

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

The duration of the validity of this classification report is subject to applicable law at the time of issue.

**ANNEX****Table 2 - CLASSES OF BEHAVIOUR TO FIRE REACTION FOR CONSTRUCTION FLOOR COVERINGS  
ACCORDING TO STANDARD UNE EN 13501-1:2019**

Class	Test method (s)	Classification criteria	Additional declaration required
<b>A1<sub>fi</sub></b>	UNE-EN-ISO 1182 <sup>a</sup> <i>and</i>	$\Delta T \leq 30^{\circ}\text{C}$ ; <i>and</i> $\Delta m \leq 50\%$ ; <i>and</i> $t_f = 0$ (that is, no sustained flaming )	-
	UNE-EN-ISO 1716	$\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{a}}$ <i>and</i> $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{b}}$ <i>and</i> $\text{PCS} \leq 1,4 \text{ MJ/m}^2^{\text{c}}$ <i>and</i> $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{d}}$	-
<b>A2<sub>fi</sub></b>	UNE-EN-ISO 1182 <sup>a</sup> <i>Or</i>	$\Delta T \leq 50^{\circ}\text{C}$ ; <i>and</i> $\Delta m \leq 50\%$ ; <i>and</i> $t_f \leq 20\text{s}$	-
	UNE-EN-ISO 1716 <i>and</i>	$\text{PCS} \leq 3,0 \text{ MJ/kg}^{\text{a}}$ ; <i>and</i> $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{b}}$ <i>and</i> $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{c}}$ <i>and</i> $\text{PCS} \leq 3,0 \text{ MJ/kg}^{\text{d}}$	-
	UNE-EN-ISO 9239-1 <sup>e</sup>	Critical flow <sup>f</sup> $\geq 8,0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
<b>B<sub>fi</sub></b>	UNE-EN-ISO 9239-1 <sup>e</sup> <i>and</i>	Critical flow <sup>f</sup> $\geq 8,0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	UNE-EN-ISO 11925-2 <sup>h</sup> <i>Exposure = 15s.</i>	$F_s \leq 150\text{mm}$ in 20s	
<b>C<sub>fi</sub></b>	UNE-EN-ISO 9239-1 <sup>e</sup> <i>and</i>	Critical flow <sup>f</sup> $\geq 4,5 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	UNE EN ISO 11925-2 <sup>h</sup> <i>Exposure = 15s.</i>	$F_s \leq 150\text{mm}$ in 20s	
<b>D<sub>fi</sub></b>	UNE-EN-ISO 9239-1 <sup>e</sup> <i>and</i>	Critical flow <sup>f</sup> $\geq 3,0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	UNE EN ISO 11925-2 <sup>h</sup> <i>Exposure = 15s.</i>	$F_s \leq 150\text{mm}$ in 20s	
<b>E<sub>fi</sub></b>	UNE EN ISO 11925-2 <sup>h</sup> <i>Exposure = 15s.</i>	$F_s \leq 150\text{mm}$ in 20s	-
<b>F<sub>fi</sub></b>	UNE EN ISO 11925-2 <sup>h</sup> <i>Exposure = 15s.</i>	$F_s > 150\text{mm}$ in 20s	

**a** For homogeneous products and substantial components of heterogeneous products.

**b** For any non-substantial external component of heterogeneous products.

**c** For any non-substantial internal component of heterogeneous products

**d** For the product as a whole.

**e** Duration of the test = 30 minutes.

**f** The critical flow is defined as the radiant flow which determines the extinction of the flame or radiant flow after a test period of 30 minutes, depending on which of the two is lower (that is, corresponding to the maximum of the flow propagation flame).

**g** s1 = Smoke  $\leq 750\% \cdot \text{min}$ ;

s2 = no s1.

**h** Under conditions of surface flame attack and, if suitable for end conditions of product use, of edge flame attack..