

## CLASSIFICATION REPORT

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<b>TEST SPECIMEN</b>	<b>Type: WALLS AND CEILING COVERINGS</b> <b>Reference: "RANGE GÉNÉRICA SUDESPAN"</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 13501-1:07+A1:2010.</b>	
<b>APPLICANT</b>	<b>SUPERFICIES DECORADAS, S.A.</b> <b>AVDA. EUROPA 7</b> <b>46026 HORNO DE ALCEDO (VALENCIA)- SPAIN</b>	
<b>DATE/S OF TEST</b>	<b>Reception of specimens: 13/01/2021 y 09/02/2021</b> <b>Beginning of test: 15/01/2021</b> <b>End of test: 17/02/2021</b>	

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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 EN 13501-1:2018 "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

#### **SBI and little burner test**

Samples corresponding to 12 mm thick white MDF, 16 mm thick walnut chipboard and 30 mm thick white MDF. The samples are labelled with the following reference 2101042-01, 2101042-02 and 2101042-03.

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

Samples corresponding to matte silk-look white melamine or pore-look wood MDF or chipboard. The set has a thickness between 12 mm and 30 mm. The flame retardant MDF has a density range between 760-830 Kg/m<sup>3</sup> and a surface mass between 9.60-23.40 Kg/m<sup>2</sup>. The flame retardant chipboard has a density range between 675-740 Kg/m<sup>3</sup> and a surface mass between 8.88-20.25 Kg/m<sup>2</sup>.

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 (thickness and board type). According to customer information, the range to be tested basically consists of:

- Thickness: Between 12 mm and 30mm
- Board type: Chipboard and MDF

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 and according to the paragraph 4.2.1 of the standard UNE EN 438-7:2005 "High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 7: Compact laminate and HPL composite panels for internal and external wall and ceiling finishes" where it is indicated that for fire reaction tests, the classification of the thinnest product is valid for panels of the same type of greater thickness. At the same time in section

B.3 of the aforementioned standard, it is indicated that a representative selection of products from said range was adopted within the test plan.

- Thickness: 12 mm, 16 mm and 30 mm
- Board type: Chipboard and MDF

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:

- “MDF BLANCO 12MM”  
(Ref. AIDIMME: 2101042-01)
- “AGLOMERADO 16MM”  
(Ref. AIDIMME: 2101042-02)
- “MDF BLANCO 30MM”  
(Ref. AIDIMME: 2101042-03)

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

- **“RANGE GENÉRICA SUDESPAN “**

Within this range there are two subgroups:

- “RANGE SUDESPAN BASE AGLOMERADO”, when the base board is chipboard and
- “RANGE SUDESPAN-F”, when the base board is standard density MDF and high density FC

### 3. TEST REPORTS SUPPORTING THE CLASSIFICATION

Laboratory	Company/Customer	Test report reference	Test method
AIDIMME	SUPERFICIES DECORADAS, S.A.	251.I.2102.008.EN.01	UNE EN 13823:12+A1:16
AIDIMME	SUPERFICIES DECORADAS, S.A.	251.I.2102.008.EN.01	UNE EN ISO 11925-2:11

#### 4. TEST RESULTS SUPPORTING THE CLASSIFICATION

Test method	Parameter	Number of test	Results	
			Average of continuous parameter (m)	Compliance with parameters
<b>UNE EN ISO 11925-2:11 (little burner)</b>  "MDF BLANCO 12MM" Ref. AIDIMME: 2101042-01	Fs ≤ 150mm	12	Not applicable	Compliant
	Ignition of the filter paper		Not applicable	Compliant
<b>UNE-EN 13823:12+A1:16 (SBI)</b>  "MDF BLANCO 12MM" Ref. AIDIMME: 2101042-01	FIGRA <sub>0,2MJ</sub> (W/s)	3	106,15	Compliant
	FIGRA <sub>0,4MJ</sub> (W/s)		106,15	Compliant
	THR <sub>600s</sub> (MJ)		6,41	Compliant
	TSP <sub>600s</sub> (m <sup>2</sup> )		98,54	Compliant
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		15,00	Compliant
	LFS (Y/N)		Not applicable	Compliant
	Falling of flaming droptles/particles (Y/N)		Not applicable	Compliant

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

Test method	Parameter	Number of test	Results	
			Average of continuous parameter (m)	Compliance with parameters
<b>UNE-EN 13823:12+A1:16 (SBI)</b> "AGLOMERADO 16MM" Ref. AIDIMME: 2101042-02	FIGRA <sub>0,2MJ</sub> (W/s)	1	64,68	Compliant
	FIGRA <sub>0,4MJ</sub> (W/s)		61,37	Compliant
	THR <sub>600s</sub> (MJ)		5,93	Compliant
	TSP <sub>600s</sub> (m <sup>2</sup> )		104,47	Compliant
	SMOGRAM (m <sup>2</sup> /s <sup>2</sup> )		11,47	Compliant
	LFS (Y/N)		Not applicable	Compliant
	Falling of flaming droplets/particles (Y/N)		Not applicable	Compliant

Test method	Parameter	Number of test	Results	
			Average of continuous parameter (m)	Compliance with parameters
<b>UNE-EN 13823:12+A1:16 (SBI)</b> "MDF BLANCO 30MM" Ref. AIDIMME: 2101042-03	FIGRA <sub>0,2MJ</sub> (W/s)	1	89,47	Compliant
	FIGRA <sub>0,4MJ</sub> (W/s)		76,05	Compliant
	THR <sub>600s</sub> (MJ)		5,03	Compliant
	TSP <sub>600s</sub> (m <sup>2</sup> )		107,96	Compliant
	SMOGRAM (m <sup>2</sup> /s <sup>2</sup> )		10,99	Compliant
	LFS (Y/N)		Not applicable	Compliant
	Falling of flaming droplets/particles (Y/N)		Not applicable	Compliant

## 5. CLASSIFICATION AND FIELD OF APPLICATION

### 5.1. Classification.

The direct applicability of the fire reaction classification, according to classification standard EN 13501-1:2018, 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), and sections 4.2.1 and B.3. of the UNE EN 438-7: 2005 standard, a similar performance and the same classification are obtained.

Therefore, according to standard UNE-EN 13501-1:07+A1:2010, 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 GÉNÉRICA SUDESPAN**” is classified in relation to the fire behavior as:

Reaction to fire	Smoke production	Drops in flame
<b>B</b>	<b>s2</b>	<b>d0</b>

### 5.2. Field of application

The classified product is defined for the use as external and internal walls/ceilings. This classification can be affected if any following influence parameters are modified:

#### 5.2.1 Parameter of the product

- Board type: Flame retardant MDF or flame retardant chipboard
- Thickness: Between 12 mm and 30mm
- Density: Higher density 570 Kg/m<sup>3</sup> for flame retardant MDF and 506.25 Kg/m<sup>3</sup> for flame retardant MDF.
- Color: White or wood melamine

#### 5.2.2 End use applications

- Joins: joins not allowed
- Installation: exposed edges allowed.
- Substrate: Applications on any substrate with 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 1 - Classes of behaviour to fire reaction for construction products excluding floor coverings and thermal insulating products for linear pipes according to standard UNE EN 13501-1:2019**

Class	Test method (s)	Classification criteria	Additional declaration required
<b>A1</b>	UNE-EN-ISO 1182 <sup>a</sup> and	$\Delta T \leq 30^{\circ}\text{C}$ ; and $\Delta m \leq 50\%$ ; and $t_f = 0$ (that is, no sustained flaming)	-
	UNE-EN-ISO 1716	$\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{a}}$ and $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{b,y,c}}$ and $\text{PCS} \leq 1,4 \text{ MJ/m}^2^{\text{d}}$ and $\text{PCS} \leq 2,0 \text{ MJ/kg}^{\text{e}}$	-
<b>A2</b>	UNE-EN-ISO 1182 <sup>a</sup> or	$\Delta T \leq 50^{\circ}\text{C}$ ; and $\Delta m \leq 50\%$ ; and $t_f \leq 20\text{s}$	-
	UNE-EN-ISO 1716 and	$\text{PCS} \leq 3,0 \text{ MJ/kg}^{\text{a}}$ ; and $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{d}}$ and $\text{PCS} \leq 4,0 \text{ MJ/m}^2^{\text{d}}$ and $\text{PCS} \leq 3,0 \text{ MJ/kg}^{\text{e}}$	-
	UNE-EN 13823 (SBI)	$\text{FIGRA}_{0,2 \text{ MJ}} \leq 120 \text{ W/s}$ ; and $\text{LFS} < \text{sample edge}$ ; and $\text{THR}_{600\text{s}} \leq 7,5 \text{ MJ}$	Smoke production <sup>f</sup> and flamming drops/particles <sup>g</sup>
<b>B</b>	UNE-EN 13823 and	$\text{FIGRA}_{0,2 \text{ MJ}} \leq 120 \text{ W/s}$ and $\text{LFS} < \text{sample edge}$ ; and $\text{THR}_{600\text{s}} \leq 7,5 \text{ MJ}$	Smoke production <sup>f</sup> and flamming drops/particles <sup>g</sup>
	UNE-EN-ISO 11925-2 <sup>i</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ in 60s	
<b>C</b>	UNE-EN 13823 and	$\text{FIGRA}_{0,4 \text{ MJ}} \leq 250 \text{ W/s}$ and $\text{LFS} < \text{sample edge}$ ; and $\text{THR}_{600\text{s}} \leq 15 \text{ MJ}$	Smoke production <sup>f</sup> and flamming drops/particles <sup>g</sup>
	UNE-EN-ISO 11925-2 <sup>i</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ in 60s	
<b>D</b>	UNE,EN 13823 y	$\text{FIGRA}_{0,4 \text{ MJ}} \leq 750 \text{ W,s}^{-1}$	Smoke production <sup>f</sup> and flamming drops/particles <sup>g</sup>
	UNE-EN-ISO 11925-2 <sup>i</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ in 60s	
<b>E</b>	UNE-EN-ISO 11925-2 <sup>i</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ in 20s	Flamming drops/particles <sup>h</sup>
<b>F</b>	UNE-EN-ISO 11925-2 <sup>i</sup> Exposure = 15s	$F_s > 150\text{mm}$ in 20s	

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

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

**c** Alternatively, for any non-substantial external component having a  $\text{PCS} \leq 2,0 \text{ MJ/m}^2$ , as long as the product meets the following criteria Standard UNE-EN 13823 (SBI):  $\text{FIGRA} \leq 20 \text{ W/s}$ , and  $\text{LFS} < \text{sample margin}$ ; and  $\text{THR}_{600\text{s}} \leq 4,0 \text{ MJ y s1}$ ; and  $d0$ .

**d** For any internal non-substantial internal component of heterogeneous products.

**e** For the product as a whole

**f**  $s1 = \text{SMOGR} \leq 30\text{m}^2/\text{s}^2$  and  $\text{TSP}_{600\text{s}} \leq 50\text{m}^2$ ;  $s2 = \text{SMOGR} \leq 180\text{m}^2/\text{s}^2$  and  $\text{TSP}_{600\text{s}} \leq 200\text{m}^2$ ;  $s3 = \text{neither } s1 \text{ nor } s2$

**g**  $d0 = \text{No flaming droplets and particles in EN 13823 (SBI) in 600s}$

$d1 = \text{No flaming droplets and particles for more than 10s in UNE- EN 13823 (SBI) in 600,}$

$d2 = \text{neither } d0 \text{ nor } d1. \text{ The ignition of the paper in UNE EN ISO 11925-2 determines a classification } d2.$

**h** Success = no ignition of the paper (without classification) ; Fail = ignition of the paper (classification  $d2$ )

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

The results of this/these test/s only refers to the object/s tested.

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