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INSTITUTO TECNOLÓGICO

CLASSIFICATION REPORT

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NUMBER	**251.C.1804.021.EN.01**	Work sheet: **21801003**
DATE OF ISSUE	**April 10th, 2018**	
NOTIFIED BODY	**Notified body for the European Regulation of the Construction Products Nº 305/2011 with number nº 1981.**	
PAGE	**The report consists of 5 pages consecutively numbered, an annex of 1 page.**	
TEST SPECIMEN	**Type:** **WALLS AND CEILING COVERINGS** **Reference:** **"EVEREST MULTIPURPOSE BOARD"**	
CONCERNING TO	**CLASSIFICATION OF FIRE PERFORMANCE OF CONSTRUCTION PRODUCTS AND BUILDING ELEMENTS. CLASSIFICATION USING DATA OBTAINED IN REACTION TO FIRE TESTS.** **ACCORDING TO STANDARD UNE EN 13501-1:07+A1:2010.**	
APPLICANT	**EVEREST INDUSTRIES LIMITED** **D206, SECTOR 63** **201301 NOIDA (UTTAR PRADESH) -INDIA**	
DATE/S OF TEST	**Reception of specimens:** **07/03/2017** **Beginning of test:** **12/03/2018** **End of test:** **15/03/2018**	

AUTORIZED SIGNATORIES

Signed.: Ms. Raquel Cánovas Ruiz	**Signed.: Mr. Stephane García Malpartida**
Technician Fire Lab	**Head of 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 form 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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CONTENTS

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 13501-1:2007+A1:2010 "Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests".

2. PRODUCT DATA CLASSIFIED

2.1. Description and Identification of the test ítem. Inspection prior to test..

Samples corresponding to board 6mm thickness made of Portland concrete, cellulose, silica, and ashes with an approximate density of 1250 Kg/m^3 and a lineal density of 7.5 kg/m^2, grey colour, all this according to the information provided by the client and referred as:

- "EVEREST MULTIPURPOSE BOARD"
  (Ref.AIDIMME: 1803056-02)

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). According to customer information, the range to be tested basically consists of:

- Thickness : 6mm, 8mm, 9mm, 10mm, 12mm, 15mm, 16mm, 18mm and 22mm

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 7.5.2.2.5 of the standard EN 12467:2012+A1:2016: "Fibre-cement flat sheets – Product specification and test methods", the reaction to fire results are valid from the lower thickness tested up to any higher thickness, a representative selection of products of this range was adopted within the test plan:

- Thickness: 6mm

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:

- "EVEREST MP 6MM"
  (Ref. AIDIMME: 1803056-02)

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

- "**EVEREST MULTIPURPOSE BOARD**"

3. TEST REPORTS SUPPORTING THE CLASSIFICATION

Laboratory	Company/Customer	Test report reference	Test method
AIDIMME	EVEREST INDUSTRIES LIMITED	251.I.1804.021.EN.01	UNE EN 13823:12+A1:16
AIDIMME	EVEREST INDUSTRIES LIMITED	251.I.1804.021.EN.01	UNE EN ISO 1716:11

4. TEST RESULTS SUPPORTING THE CLASSIFICATION

Test method	Parameter	Numer of test	Results	
			Average of continuous parameter (m)	Parameter it has to fulfill
UNE EN ISO 1716:11 (Gross heat) "EVEREST HD 6MM" Ref. AIDIMME: 1803056-01	PCS (MJ/Kg)	3	1,7	Not applicable
UNE-EN 13823:12+A1:16 (SBI) "EVEREST HD 6MM" Ref. AIDIMME: 1803056-01	FIGRA $_{0,2MJ}$ (W/s)	3	53,15	Not applicable
	FIGRA $_{0,4MJ}$ (W/s)		37,85	Not applicable
	THR_{600s} (MJ)		4,06	Not applicable
	SMOGRA (m^2/s^2)		0,00	Not applicable
	TSP_{600s} (m^2)		17,27	Not applicable
	LFS (Y/N)		Not applicable	yes
	gotas/partículas en llama (Y/N)		Not applicable	yes

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

5. CLASSIFICATION AND FIELD OF APPLICATION

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 13501-1:07+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 **"EVEREST MULTIPURPOSE BOARD"** is classified in relation to the fire behavior as:

Reaction to fire	Smoke production	Drops in flame
A2	**s1**	**d0**

5.2. Field of application

The classified product is defined for the use in walls and ceilings coverings.

According to the paragraph 7.5.2.2.5 of the standard EN 12467:2012+A1:2016: "Fibre-cement flat sheets – Product specification and test methods", the reaction to fire results are valid from the lower thickness tested up to any higher thickness. The obtained reaction to fire classification is valid from 6mm to any higher thickness.

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.

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ANNEX

CLASSES OF BEHAVIOUR TO FIRE REACTION FOR CONSTRUCTION PRODUCTS EXCLUDING FLOOR COVERINGS ACCORDING TO STANDARD UNE EN 13501-1:07 +A1: 2010

Class	Test method (s)	Classification criteria	Additional declaration required
A1	UNE-EN-ISO 1182:2011 (1); *and*	$\Delta T \leq 30°C$; *and* $\Delta m \leq 50\%$; *and* $t_f = 0$ (that is, no sustained flaming)	-
	UNE–EN-ISO 1716:2011	PCS ≤ 2,0 MJ,kg^{-1} (1); *and* PCS ≤ 2,0 MJ,kg^{-1} (2) (2a); and PCS ≤ 1,4 MJ,m^{-2} (3); and PCS ≤ 2,0 MJ,kg^{-1} (4)	-
A2	UNE-EN-ISO 1182:2011 (1); *or*	$\Delta T \leq 50°C$; *and* $\Delta m \leq 50\%$; *and* $t_f \leq 20s$	-
	UNE-EN-ISO 1716:2011; *and*	PCS ≤ 3,0 MJ,kg^{-1} (1); *and* PCS ≤ 4,0 MJ,m^{-2} (2); and PCS ≤ 4,0 MJ,m^{-2} (3); and PCS ≤ 3,0 MJ,kg^{-1} (4)	-
	UNE-EN–13823:12+A1:16 (SBI)	FIGRA ≤ 120 W,s^{-1}; *and* LFS < sample edge; and $THR_{600s} \leq 7,5$ MJ	Smoke production(5); and Flamming Drops/particles(6)
B	UNE-EN 13823:12+A1:16 (SBI); *and*	$FIGRA_{0,2} \leq 120$ W,s^{-1}; *and* LFS < sample edge; *and* $THR_{600s} \leq 7,5$ MJ	Smoke production(5); and Flamming Drops/particles(6)
	UNE-EN-ISO 11925-2:2011(8): *Exposure = 30s*	Fs ≤ 150mm in 60s	
C	UNE-EN 13823:12+A1:16 (SBI); *and*	$FIGRA_{0,4} \leq 250$ W,s^{-1}; *and* LFS < sample edge ; *and* $THR_{600s} \leq 15$ MJ	Smoke production(5); and Flamming Drops/particles(6)
	UNE-EN-ISO 11925-2:2011(8): *Exposure = 30s*	Fs ≤ 150mm in 60s	
D	UNE,EN 13823:12+A1:16 (SBI); *and*	$FIGRA_{0,4} \leq 750$ W,s^{-1}	Smoke production(5); and Flamming Drops/particles(6))
	UNE-EN-ISO 11925-2:2011(8): *Exposure = 30s*	Fs ≤ 150mm in 60s	
E	UNE-EN-ISO 11925-2:2011(8): *Exposure = 15s*	Fs ≤ 150mm in 20s	Flamming Drops/particles(7)
F	UNE-EN-ISO 11925-2:2011(8): *Exposure = 15s*	Fs >150mm in 20s	Flamming Drops/particles(7)

(1) **For homogeneous products and substantial components of non-homogeneous products**

(2) **For any non-substantial component of non-homogeneous products**

(2a) **Alternatively, for any non-substantial component having an PCS≤ 2,0 MJ/m^2, as long as the product meets the following criteria UNE-EN 13823:2012+A1:2016 (SBI): FIGRA≤ 20 W,s^{-1}, y LFS< sample margin; y $THR_{600s} \leq 4,0$ MJ; and s1; and d0,**

(3) **For any internal non-substantial component of non-homogeneous product**

(4) **For a product as a whole**

(5) **s1= SMOGRA ≤ 30m^2,s^{-2} and $TSP_{600s} \leq 50m^2$; s2 = SMOGRA ≤ 180m^2,s^{-2} *and* $TSP_{600s} \leq 200m^2$;s3 = neither s1 nor s2**

(6) **d0 = No flamming droplets and particles in UNE-EN 13823:2012+A1:2016 (SBI) in 600s; d1 = No Flamming droplets and particles for more than 10s in UNE-EN 13823:2012+A1:2016 (SBI) in 600s; d2 = neither d0 nor d1; the ignition of the paper in UNE-EN-ISO 11925-2:2011 determines a classification d2,**

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

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