

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

E/F  
Page 1 of 4

Sponsor: **BUILDING ADHESIVES LIMITED**  
Longton Road, Trentham, Stoke on Trent  
ST4 8JB, UK

Prepared by: **LGAI Technological Center, S.A.  
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Product name: **BAL BOARD**

Classification report n°: **19/20553-1745-2**

Date of issue: **10<sup>th</sup> October, 2019**



**1.-INTRODUCTION**

This classification report defines the classification assigned to BAL BOARD in accordance with the procedures given in the EN 13501-1:2018 standard.

**2.- DETAILS OF CLASSIFIED PRODUCT**

**2.1.-General**

The product, BAL BOARD, is defined as tile backer board according to petitioner.

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**2.2.-Product description**

Tile backer board with the technical specifications provided by the petitioner:

Product trade name: BAL BOARD

Magnesium oxide plus fibreglass reinforcing mesh tile backer board. Thickness range of 6-12 mm, density of 1050 kg/m<sup>3</sup> and white/off-white colour. Tile backer board is slightly rough on one face and smoother on the opposite.

Manufacturer: BUILDING ADHESIVES LIMITED, Longton road, Trentham, Stoke on Trent, ST4 8JB, UK.

**3.-REPORT AND RESULTS IN SUPPORT OF THIS CLASSIFICATION**

**3.1- Reports**

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date
Applus – LGAI	BUILDING ADHESIVES LIMITED	19/20553-1745-1	UNE-EN ISO 1182:2011 07/10/2019
			UNE-EN ISO 1716:2011* 26/09/2019

*\*Due to classification standard EN 13501-1:2018 call up test standard EN ISO 1716:2011, we do not test the current version of it.*

**3.2- Results of the Tests**

Test method	RESULTS			
	CRITERIA CLASS A1/A1 <sub>fl</sub>	Nº TEST	AVERAGE	COMPLIANCE
<b>UNE-EN ISO 1182:2011</b>	$\Delta T \leq 30^{\circ}\text{C}$ (for T <sub>f</sub> )	5	<b>11.2</b>	<b>YES</b>
	$\Delta m \leq 50\%$		<b>22.20</b>	<b>YES</b>
	t <sub>f</sub> = 0 s		<b>0</b>	<b>YES</b>
<b>UNE-EN ISO 1716:2011</b>	PCS $\leq 2.0$ MJ/kg	3	<b>-0.56</b>	<b>YES</b>

**4.- CLASSIFICATION AND FIELD OF APPLICATION**

**4.1- Reference of classification**

This classification has been carried out in accordance with EN 13501-1:2018: "Classification in terms of the behaviour to fire of construction products and building elements. Part 1: Classification made from the data gathered during fire reaction tests".

**4.2- Classification**

The product, BAL BOARD, in relation to its reaction to fire behaviour is classified:

**A1 / A1<sub>fi</sub>**

The additional classification in relation to smoke production is:

-

The additional classification in relation to flaming droplets / particles is:

-

<b>Fire Behaviour</b>		<b>Smoke Production</b>			<b>Flaming droplets</b>	
A1/ A1 <sub>fi</sub>	-	s	-	,	d	-

**REACTION TO FIRE CLASSIFICATION : A1/ A1<sub>fi</sub>**

**This classification is only valid for the final conditions of use described in the present report.**

#### **4.3- Field of application**

- This classification is valid for the following product parameters:

The classification is only valid for the product characteristics shown, and may extend to the following parameter:

Variable parameter 1: Thickness  
Results valid for any thickness.

- The classification is valid for the following final use applications:

Board is used as supplied and is fixed to a wall or floor prior to tiling.

#### **5.- LIMITATIONS**

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

Responsible of the Fire Laboratory  
LGAI Technological Center S.A. (APPLUS)

Responsible Technician of Reaction to Fire  
LGAI Technological Center S.A. (APPLUS)

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The results refer exclusively to the samples tested at the time and under the conditions indicated.

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