Reaction to fire classification report No. 17553C

Owner of the classification report

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Introduction

This classification report defines the classification assigned to the product **'AIR-board® acoustic'** in accordance with the procedures given in the standard EN 13501-1:2007+A1:2009: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 5 pages

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **AIR-board® acoustic** is defined as a 'transparent acoustic panel'.
Its classification is valid for the following end use application(s):
Used for wall and ceiling applications, freestanding, partitions, furniture parts, etc .

b) Description of the tested product

This description is based on information given by the sponsor.

	Nominal values
AIR-board® acoustic (see Figure 1)	
Type of product	The tested material is a multilayer product consisting of a honeycomb core, covered on both sides with a micro perforated thermoplastic sheet.
Manufacturer	Design Composite GmbH
Thickness (mm)	19
Density (kg/m³)	189
Surface mass (g/m²)	3600
Use of fire retardants	No
Surface structure	Smooth
Colour	Transparent

Figure 1: AIR-board® acoustic

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. No. and test date	Test method
WFRGENT nv Ghent, Belgium	Design Composite GmbH Niedernsill, Austria	17553A: 11/12/2015	EN ISO 11925-2 (November 2010/AC:2011)
WFRGENT nv Ghent, Belgium	Design Composite GmbH Niedernsill, Austria	17553B: 17/12/2015	EN 13823 (July 2010+A1:2014)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30 s flame application:						
Surface exposure	$F_s \leq 150$ mm	6	(-)	Yes	(-)	Yes
- front side	Ignition filter paper		(-)	No	(-)	No
Edge exposure (**)						
- mid point 1,5 mm behind	$F_s \leq 150$ mm	(-)	(-)	(-)	(-)	(-)
surface	Ignition filter paper		(-)	(-)	(-)	(-)
(*) The material melted but didn't pull away from the pilot burner. *(**)* Since there's protection of the cut edges (material of Euroclass A1 or A2) in the end-use application(s), only surface exposure has been performed. *(1) Based on the results obtained in test report No. 17553A.*						
EN 13823 (2)	FIGRA $_{0,2\ MJ}$ (W/s)	3	117	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		91	(-)	(-)	(-)
	$LFS_{<edge}$		(-)	Yes	(-)	Yes
	THR_{600s} (MJ)		1,7	(-)	≤ 7,5	(-)
	SMOGRA (m²/s²)		12	(-)	≤ 30	(-)
	TSP_{600s} (m²)		50	(-)	≤ 50	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
(2) Based on the results obtained in test report No. 17553B.						

(-) Not applicable.

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

b) Classification

The product **AIR-board® acoustic** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	**s1**	**d0**

c) Field of application

This classification for the product as described in §1b, is valid for the following end use conditions:

- Product as such
- With edge finishing of Euroclass A2-s1,d0 or better (protection of cut edges)
- Without joints

This classification is valid for the following product parameters:

- Nominal thickness: 19 mm
- Surface mass: 3600 g/m²
- Colour: Transparent
- Use of fire retardants: No
- Surface structure: Smooth

4. RESTRICTIONS

At the time the standard EN 13501-1:2007+A1:2009 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonised standards and technical specifications.

5. WARNING

This classification report does not represent type approval nor certification of the product.

Although at the time the classification report for the tested material/product was drafted there was a product standard for CE marking available, the sponsor specifically requested not to follow the requirements given by this product standard.
Therefore, no CE marking could be affixed under the Construction Products Regulation (CPR: EU 305/2011) / Construction Products Directive and the classification obtained in this classification report is only valid for the tested product, without the application of any extended application rules.

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