

# **Reaction to fire classification report Nr 15311C**

## **Owner of the classification report**

DESIGN COMPOSITE GmbH  
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AUSTRIA

## **Introduction**

This classification report defines the classification assigned to the product 'Air-board® UV PC 19' in accordance with the procedures given in the standard EN 13501-1+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 6 pages**

## 1. DETAILS OF CLASSIFIED PRODUCT

### a) Nature and end use application

The product **Air-board® UV PC 19** is defined as a 'translucent composite panel'. Its classification is valid for the following end use application(s):  
'Separation walls, furniture, claddings'.

### b) Description

	Nominal value
<b>AIR-BOARD® UV PC 19</b>	
Material	Sandwich panel with a honeycomb structure. See figure 1 below.
Manufacturer	Design Composite GmbH
Colour	Translucent
Total thickness (mm)	19
Total surface weight (g/m <sup>2</sup> )	5900
<b>COMPONENTS</b>	
<i>1. Exposed surface layer</i>	
Material	Transparent polycarbonate plate
Manufacturer	Design Composite GmbH
Thickness (mm)	2
Surface weight (g/m <sup>2</sup> )	2400
Fixing method	Glued with a transparent adhesive
<i>2. Subsequent layer 1</i>	
Material	Polycarbonate honeycomb structure with tubes of 7mm
Manufacturer	Tubus Bauer GmbH
Thickness (mm)	14,6
Surface weight (g/m <sup>2</sup> )	1000
Fixing method	Glued with a transparent adhesive
<i>3. Subsequent layer 2</i>	
Material	Transparent polycarbonate plate
Manufacturer	Design Composite GmbH
Thickness (mm)	2
Surface weight (g/m <sup>2</sup> )	2400
Fixing method	Glued with a transparent adhesive



Figure 1: Air-board® UV PC 19

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

### a) Test reports

<b>Name of the laboratory</b>	<b>Name of the sponsor</b>	<b>Test report ref. Nr.</b>	<b>Test method</b>
WFRGENT nv Ghent, Belgium	DESIGN COMPOSITE GmbH Niedersill, Austria	15311B	EN 13823 (July 2010)
WFRGENT nv Ghent, Belgium	DESIGN COMPOSITE GmbH Niedersill, Austria	15311A	EN ISO 11925-2 (November 2010)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s2,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) 30s flame application:						
<u>Surface exposure</u> - front side	$F_s \leq 150\text{mm}$ Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
<u>Edge exposure</u> - mid point 1,5mm behind the surface	$F_s \leq 150\text{mm}$ Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
EN 13823	FIGRA <sub>0,2MJ</sub> (W/s) FIGRA <sub>0,4MJ</sub> (W/s) LFS <sub>-edge</sub> THR <sub>600s</sub> (MJ) SMOGRA (m <sup>2</sup> /s <sup>2</sup> ) TSP <sub>600s</sub> (m <sup>2</sup> ) Flaming droplets/particles f<10s f>10s	3	71 42 (-) 2,3 9 65  (-) (-)	(-) (-) Yes (-) (-) (-)  No No	≤ 120 ≤ 120 (-) ≤ 7,5 ≤ 180 ≤ 200  (-) (-)	(-) (-) Yes (-) (-) (-)  No No

(-) Not applicable

(\*) The material melted but didn't pull away from the pilot burner.

### 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

a) Reference and direct field of application

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

b) Classification

The product **Air-board® UV PC 19** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
<b>B</b>	<b>s2</b>	<b>d0</b>

c) Field of application

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

- Self supporting
- Without joints

This classification is valid for the following product parameters:

- Nominal total thickness : 19 mm
- Nominal total mass per unit area: 5900 g/m<sup>2</sup>
- Colour: transparent  
Surface layers: polycarbonate plate
- Nominal thickness: 2 mm
- Nominal mass per unit area: 2400 g/m<sup>2</sup>  
Honeycomb core: polycarbonate
- Nominal thickness: 14,6 mm
- Nominal mass per unit area: 1000 g/m<sup>2</sup>

#### 4. RESTRICTIONS

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

#### 5. WARNING



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

The following statement is included in accordance with Fire Sector Group Recommendation 001rev2:

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of a system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Report	Name	Signature (*)	Date
Prepared by	I. LAMMERTYN		15 MAART 2012
Reviewed by	ir. K. CATRY		15 MAART 2012
(*) For and on behalf of "WFRGENT nv"			

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