Reaction to fire classification report No. 17790E

Owner of the classification report

I.P.B. nv
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Introduction

This classification report defines the classification assigned to the product **'TRIAPRINT®'** 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 6 pages

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **TRIAPRINT®** is defined as a '3-layer coextruded polypropylene structural sheet'.
Its classification is valid for the following end use application(s):
For internal and external use in walls, roofs and ceilings.

b) Description of the tested product

This description is based on information given by the sponsor.

	Nominal values	
TRIAPRINT®		
Type of product	3-layer coextruded polypropylene structural sheet. The core layer of the product has a cell-structure as shown in Figure 1.	
Manufacturer	I.P.B. nv	
Supplier	I.P.B. nv	
Total thickness (mm)	2,7	5,7
Thickness top & bottom layer (mm)	0,17 (*)	0,60 (*)
Total surface mass (g/m²)	600	1600
Cell diameter (mm)	4	8
Use of fire retardant	Yes	
Amount of fire retardants (%)	Known by the laboratory	
Colour	White	

(*) The thickness of top & bottom layer is directly proportional to the total thickness of the product

More details are available in the test reports in support of this classification (§2a).

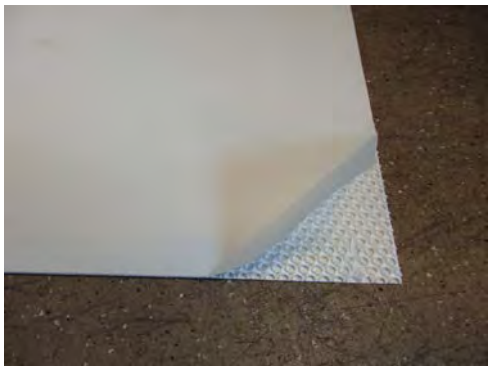

Figure 1: TRIAPRINT® with cell-structure of the core layer

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	I.P.B. nv Waregem, Belgium	17790A: 22/04/2016 17790B: 22/04/2016	EN ISO 11925-2 (November 2010/AC:2011)
WFRGENT nv Ghent, Belgium	I.P.B. nv Waregem, Belgium	17790C: 04/05/2016 17790D: 04/05/2016	EN 13823 (July 2010+A1:2014)
WFRGENT nv Ghent, Belgium	I.P.B. nv Waregem, Belgium	17790F	EXAP according to CEN/TS 15117 (August 2005)

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	$F_s \leq 150$ mm	6	(-)	Yes	(-)	Yes
- front side	Ignition filter paper		(-)	No	(-)	No
(*) The material melted but didn't pull away from the pilot burner. *(1) Based on the results obtained in test report No. 17790B – TRIAPRINT® 2,7 mm.*						
EN 13823 (2)	FIGRA $_{0,2\ MJ}$ (W/s)	3	7	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		(-)	(-)	(-)	(-)
	$LFS_{<edge}$		(-)	Yes	(-)	Yes
	THR_{600s} (MJ)		0,4	(-)	≤ 7,5	(-)
	SMOGRA (m²/s²)		19	(-)	≤ 30	(-)
	TSP_{600s} (m²)		41	(-)	≤ 50	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
(2) Based on the results obtained in test report No. 17790D – TRIAPRINT® 5,7 mm.						

(-) Not applicable.

Preliminary tests EN ISO 11925-2

	$F_s \leq 150mm$	Ignition filter paper	Average maximal flame spread (mm)
Sample 1: TRIAPRINT® 2,7 mm	Yes	No	93,3
Sample 2: TRIAPRINT® 5,7 mm	Yes	No	61,7

Based on the results obtained in test report No. 17790A: only 3 tests of each type of exposure (surface exposure and edge exposure) were performed instead of the standard 6 replicates.

Preliminary tests EN 13823

	FIGRA (W/s)	THR_{600S} (MJ)	SMOGRA (m^2/s^2)	TSP_{600S} (m^2)
Sample 1: TRIAPRINT® 5,7 mm	0	0,2	17	40
Sample 2: TRIAPRINT® 2,7 mm	0	0,2	0	30

Based on the results obtained in test report No. 17790C: Only one single test on each product has been carried out instead of the standard three replicates.

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 **TRIAPRINT®** 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:

- Freestanding

This classification is valid for the following product parameters:

- Total thickness: All thicknesses between or equal to 2,7 mm and 5,7 mm
- Total surface mass: 600 g/m² – 1600 g/m²
- Nominal thickness of top & bottom layer: 0,17 mm – 0,60 mm (directly proportional to the total thickness)
- Nominal cell diameter: 4 mm – 8 mm
- Use of fire retardants: Yes
- Amount of fire retardants: Known by the laboratory
- Colour: White

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.

According to the information mentioned by the sponsor on the technical information sheet there was no product standard for CE marking available at the time the classification report for the tested material/product was drafted.
When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for CE marking.
The sponsor of this report has nevertheless committed himself to a System 3 Assessment and Verification of Constancy of Performance (AVCP).

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