Reaction to fire classification report No. 22082BB

Owner of the classification report

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Introduction

This classification report defines the classification assigned to the product ***'Trespa® Meteon® FR'*** in accordance with the procedures given in the standard EN 13501-1:2018: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 11 pages and may only be used or reproduced in its entirety.

1. DETAILS OF CLASSIFIED PRODUCT

a) General

The product ***Trespa® Meteon® FR*** is defined as a '*High Pressure Laminate (HPL) panel*'.
Its classification is valid for the following end use application(s):
Used as HPL panels for external wall and ceiling finishes.

b) Product description

This description is based on information given by the sponsor.

	Nominal values (1)
Trespa® Meteon® FR	
Material	Double sided or single-sided FR grade high pressure laminate (HPL), suitable for exterior applications. The material consists of kraft paper impregnated with resin and a coat on the outside with acrylic resin.
Manufacturer	Trespa International B.V.
Core type	(3)
Total thickness (mm)	6,0
Total density (kg/m³)	1350
Use of fire retardants	Yes
Amount of fire retardants (%)	(2)
Colour of the coating on the decor side	
Printed colourgroup (NA,NM,NW,C,CM)	Valid for all colours
UNI colourgroup (A,L)	Valid for all colours
Surface texture	Satin, matt-rock, diffuse, oblique, specular and matt (see Figure 1)
Organic content of the coating on the decor side (g/m²)	(2)
Colour group on the decor side	UNI (A,L) or Printed (NA,NM,NW,C,CM)

(1) Based on the information given by the sponsor
(2) Confidential information of the sponsor not known by the laboratory
(3) Known by the laboratory

Figure 1: different type of surface textures for the single-sided FR grade high pressure laminate (HPL)

More details (e.g. mounting and fixing) are available in the test report(s) in support of this classification (§2a).

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

a) Test reports (and EXAP reports)

Name of the laboratory	Name of the sponsor	Test report ref. No. and test date	Test method and date
WFRGENT nv Ghent, Belgium	TRESPA INTERNATIONAL BV	22082B:16/05/2022 & 16/06/2022 22082AL:11/02/2023 22082AM:11/02/2023	EN ISO 11925-2:2020
WFRGENT nv Ghent, Belgium	TRESPA INTERNATIONAL BV	22082A:14/05/2022 & 11/06/2022 22082D:11/06/2022 & 13/08/2022 22082AJ:14/02/2022 22082AK:14/02/2022 & 15/02/2022	EN 13823:2020+A1:2022
WFRGENT nv Ghent, Belgium	TRESPA INTERNATIONAL BV	22082BA	EXAP according to CEN/TS 15117 (August 2005)

b) Test results

Official test results used for the classification (**)

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 (*) (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	6	(-)	Yes	(-)	Yes
surface	Ignition filter paper		(-)	No	(-)	No
(*) The material didn't melt nor pull away from the pilot burner. *(1) Based on the results obtained in test report No. 22082AL* *KRAFT– A12.1.8 – SATIN – 6 mm (double sided)*						

(-) Not applicable
(**) The internal product definitions are, in comparison with the test reports and the exap report, mentioned without the resin type. The resin type is known by the laboratory.

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Official test results used for the classification (**)

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 (*) (2)						
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	6	(-)	Yes	(-)	Yes
surface	Ignition filter paper		(-)	No	(-)	No
(*) The material didn't melt nor pull away from the pilot burner.						
(2) Based on the results obtained in test report No. 22082AM						
KRAFT – NA17 – MATT ROCK – 6 mm (double sided)						
EN 13823 (3)	FIGRA $_{0,2\ MJ}$ (W/s)	3	76	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		76	(-)	(-)	(-)
	$LFS_{<edge}$		(-)	Yes	(-)	Yes
	THR_{600s} (MJ)		6,8	(-)	≤ 7,5	(-)
	SMOGRA (m^2/s^2)		11	(-)	≤ 180	(-)
	TSP_{600s} (m^2)		85	(-)	≤ 200	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
(3) Based on the results obtained in test report No. 22082AJ						
KRAFT – A12.1.8 – SATIN – 6 mm (double sided)						
EN 13823 (4)	FIGRA $_{0,2\ MJ}$ (W/s)	5	105	(-)	≤ 120	(-)
	FIGRA $_{0,4\ MJ}$ (W/s)		73	(-)	(-)	(-)
	$LFS_{<edge}$		(-)	Yes	(-)	Yes
	THR_{600s} (MJ)		7,4	(-)	≤ 7,5	(-)
	SMOGRA (m^2/s^2)		11	(-)	≤ 180	(-)
	TSP_{600s} (m^2)		84	(-)	≤ 200	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
(4) Based on the results obtained in test report No. 22082AK						
KRAFT – NA17 – MATT ROCK – 6 mm (double sided)						

(-) Not applicable
(**) The internal product definitions are, in comparison with the test reports and the exap report, mentioned without the resin type. The resin type is known by the laboratory.

Comparative test results used for the worst case decor determinations per colourgroup

EN 13823 ***Test report No. 22082A***	FIGRA $_{0,2\ MJ}$ (W/s)	FIGRA $_{0,4\ MJ}$ (W/s)	THR_{600S} (MJ)	SMOGRA (m^2/s^2)	TSP_{600S} (m^2)
Colourgroup 'UNI'					
Decor A12.1.8 Thickness 8 mm Single sided panel SATIN surface texture	53	53	2,7	6	23
Decor A.05.00 Thickness 8 mm Single sided panel SATIN surface texture	38	38	2,2	8	21
Decor L9000 Thickness 8 mm Single sided panel SPECULAR surface texture	34	34	2,2	6	16
Colourgroup 'Printed decor'					
Decor NW04 Thickness 8 mm Single sided panel SATIN surface texture	54	43	2,5	7	20
Decor C08.3 Thickness 8 mm Single sided panel DIFFUSE surface texture	71	33	2,8	7	27
Decor NA17 Thickness 8 mm Double sided panel MATT ROCK surface texture	98	56	3,5	7	29

Note: the determination of the worst case colour was performed on HPL in thickness 8 mm. This worst case colour determination is also representative for the HPL panels with thickness of 6 mm.

Official test results used for the worst case decor determinations per colourgroup

EN ISO 11925-2 ***Test report No. 22082B***	$F_s \leq 150$mm for 6 x edge and 6 x surface	Ignition filter paper
Colourgroup 'UNI'		
Decor A12.1.8 Thickness 8 mm Single sided panel SATIN surface texture	Yes	No
Decor A.05.00 Thickness 8 mm Single sided panel SATIN surface texture	Yes	No
Decor L9000 Thickness 8 mm Single sided panel SPECULAR surface texture	Yes	No
Colourgroup 'Printed decor'		
Decor NW04 Thickness 8 mm Single sided panel SATIN surface texture	Yes	No
Decor C08.3 Thickness 8 mm Single sided panel DIFFUSE surface texture	Yes	No
Decor NA17 Thickness 8 mm Double sided panel MATT ROCK surface texture	Yes	No

Note: the determination of the worst case colour was performed on HPL in thickness 8 mm. This worst case colour determination is also representative for the HPL panels with thickness of 6 mm.

Comparative test results used for the worst-case determinations of the composition (single sided panel vs double sided panel)

EN 13823 ***Test report No. 22082D*** ***Colourgroup 'Printed decor'***	FIGRA $_{0,2\ MJ}$ (W/s)	FIGRA $_{0,4\ MJ}$ (W/s)	THR_{600S} (MJ)	SMOGRA (m^2/s^2)	TSP_{600S} (m^2)
Decor NA17 Thickness 8 mm Double sided panel MATT ROCK surface texture	98	56	3,5	7	29
Decor NA17 Thickness 8 mm Single sided panel MATT ROCK surface texture	114	79	3,8	8	36
Decor NA17 Thickness 8 mm Double sided panel MATT surface texture	117	74	3,5	7	23

Note: the determination of the worst case composition of the panel (single sided vs double sided) was performed on the HPL in thickness 8 mm. This worst case composition determination is also representative for the HPL panels with thickness of 6 mm.

Comparative test results used for the extension of the joint opening up to 10 mm.

EN 13823 ***Data in file 22082_74*** ***(available at WFR Gent)***	FIGRA $_{0,2\ MJ}$ (W/s)	FIGRA $_{0,4\ MJ}$ (W/s)	THR_{600S} (MJ)	SMOGRA (m^2/s^2)	TSP_{600S} (m^2)
Decor NA17 Thickness 8 mm Double sided panel MATT ROCK surface texture Joint opening 10 mm	75	38	2.7	9	40

Note: the comparative test results used for the extension of the joint opening up to 10 mm. was performed on the HPL in thickness 8 mm. This test is also representative for the HPL panels with thickness of 6 mm.

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.
The related harmonized product standard is EN 438-7:2005 and has been used for the direct field of application and for the mounting and fixing of the SBI-test.

b) Classification

The product ***Trespa® Meteon® FR*** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	**s2**	**d0**

c) Field of application

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

- Substrate: Wood based substrates of Euro class D-s2,d0 or better and any other substrate of Euro class A1 and A2-s1,d0, with a thickness of at least 10 mm and a density of at least 510 kg/m^3
- With an open air gap
- Fixing: Mechanically fixed on all types of supporting frames (wood, aluminium, steel frames) with fixing distances of up to 800 mm
- With or without an open horizontal joint (maximum 10 mm) between the HPL panels, and with any type of closed horizontal joint
- With or without an open (maximum 10 mm) vertical joint between the HPL panels
- With or without insulation as tested (in accordance with § B.2 of EN 438-7:2005) (without insulation is only applicable for substrates of Euro class A1 and A2-s1,d0)
- Fire exposed side: decor layer

This classification is valid for the following product parameters:

- Nominal thickness: 6 mm
- Nominal density: 1350 kg/m^3
- With fire retardants
- Valid for single sided and double sided panels
- Valid for all colours of the colourgroup UNI (A,L)
  (specific type of resin known by the lab)
- Valid for all colours of the colourgroup Printed (NA,NM,NW,C,CM)
  (specific type of resin known by the lab)
- Valid for all the following surface textures: satin, matt-rock, diffuse, oblique, specular and matt (see Figure 1)

4. RESTRICTIONS

At the time the standard EN 13501-1:2018 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 harmonized standards and technical specifications.

5. WARNING

This classification report does not represent type approval or certification of the product. The classification assigned to the product in this report is appropriate to a Declaration of Performance (DoP) by the manufacturer within the context of System 1 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products.

The test laboratory has played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

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