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

Classification no.	2026-Efectis-R000689
Sponsor	TRESPA INTERNATIONAL B.V. Wetering 20 6002 SM WEERT THE NETHERLANDS
Product name	**Trespa® Meteon® FR, 6 mm**
Prepared by	Efectis Nederland BV
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1. INTRODUCTION

1.1 PRODUCT NAME

This classification report defines the classification assigned to **Trespa® Meteon® FR, 6 mm** in accordance with the procedures given in EN 13501-1:2018.

1.2 ASSESSMENT INFORMATION

Efectis reviewed the test results provided by Warrington Fire via Trespa International of the EN ISO 11925:2020 and EN 13823:2020 tests and concluded that the results from the tests are still valid. This report can, therefore, be used for classification according to EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Trespa® Meteon® FR, 6 mm**, is defined as compact laminate panels for external wall and ceiling finishes. Type EDF according to EN 438-6:2016.

2.2 MANUFACTURER

TRESPA INTERNATIONAL B.V.
Wetering 20
6002 SM WEERT
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

Product description:

The material consists of kraft paper impregnated with phenolic resin and a coating on the outside with acrylic resin. The product has a thickness of 6 mm and density of approx.1350 kg/m^3. The organic and fire-retardant content details are available at the sponsor.

The product is available in different finish:

- Satin;
- Rock;
- Diffuse;
- Oblique;
- Specular;
- Matt-Rock;
- Matt.

The product is available in multiple colour ranges named as below:

- UNI (A, L)
- Printed decors (NA, NM, NW, C, CM)

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3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2020+A1:2022	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests
EN 438-7:2005	High pressure decorative laminates (HPL) - Sheets based on thermosetting resins (usually called Laminates – Part 7: Compact laminates and HPL composite panels for internal and external wall and ceiling finishes.

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
WFRGENT N.V. BELGIUM	TRESPA INTERNATIONAL B.V. THE NETHERLANDS	22082AL 22082AM 22082B 22082C 22082AJ 22082AK 22082A 22082D	EN ISO 11925-2:2020 EN 13823:2020+A1:2022
Efectis Nederland BV THE NETHERLANDS	TRESPA INTERNATIONAL B.V. THE NETHERLANDS	2025-Efectis-R001691	EN 13823:2020+A1:2022

3.3 TEST RESULTS

3.3.1 Test report No. 22082AL– UNI worst case reproducibility (thickness of 6 mm)

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
Kraft + F30 – A12.1.8 - Satin – 6 mm (UNI)				
Surface flame impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant

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Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant

3.3.2 Test report No. 22082AJ – UNI worst case reproducibility (thickness of 6 mm)

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
Kraft F30 – A12.1.8 Satin – 6 mm Double-sided UNI	$FIGRA_{0.2MJ}$ [W/s]	3	76	-
	$FIGRA_{0.4MJ}$ [W/s]		76	-
	THR_{600s} [MJ]		6.8	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		11	-
	TSP_{600s} [m^2]		85	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant

3.3.3 Test report No. 22082 AM – Printed decors worst case reproducibility (thickness of 6 mm)

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
Kraft + F33 – NA17 – Matt Rock – 6 mm (Printed decors – double-sided)				
Surface flame impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant

3.3.4 Test report No. 22082 AK – Printed decors worst case reproducibility (thickness of 6 mm)

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
Kraft F33 – NA17 Matt Rock – 6 mm Double-sided Printed decors	$FIGRA_{0.2MJ}$ [W/s]	5	105	-
	$FIGRA_{0.4MJ}$ [W/s]		79	-
	THR_{600s} [MJ]		7.4	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		11	-
	TSP_{600s} [m^2]		85	-

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	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant

3.3.5 Test report No. 22082B – Colour difference review

The determination of the worst-case colour was performed on HPL with a thickness of 8 mm. This worst-case colour determination is also representative for the HPL panels with a thickness of 6 mm.

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
Kraft + F30 – A12.1.8 – Satin – 8 mm (UNI)				
Surface flame impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Kraft + F30 – A05.0.0 – Satin – 8 mm (UNI)				
Surface flame impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
Kraft + F30 – L90.0.0 – Specular – 8 mm (UNI)				
Surface flame impingement	Fs ≤150 mm	6	50	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Kraft + F33 – NW04 – Satin – 8 mm (Printed decors)				
Surface flame impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
Kraft + F33 – C08.03 – Diffuse – 8 mm (Printed decors)				
Surface flame impingement	Fs ≤150 mm	6	40	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant

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3.3.6 Test report No. 22082A – Colour difference review

The determination of the worst-case colour was performed on HPL with a thickness of 8 mm. This worst-case colour determination is also representative for the HPL panels with a thickness of 6 mm.

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
Kraft F30 – A12.1.8 Satin – 8 mm UNI	$FIGRA_{0.2MJ}$ [W/s]	1	53	-
	$FIGRA_{0.4MJ}$ [W/s]		53	-
	THR_{600s} [MJ]		2.7	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		6	-
	TSP_{600s} [m^2]		23	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
Kraft F30 – A.05.00 Satin – 8 mm UNI	$FIGRA_{0.2MJ}$ [W/s]	1	38	-
	$FIGRA_{0.4MJ}$ [W/s]		38	-
	THR_{600s} [MJ]		2.2	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		6	-
	TSP_{600s} [m^2]		21	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
Kraft F30 – L90.0.0 Specular – 8 mm UNI	$FIGRA_{0.2MJ}$ [W/s]	1	34	-
	$FIGRA_{0.4MJ}$ [W/s]		34	-
	THR_{600s} [MJ]		2.2	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		6	-
	TSP_{600s} [m^2]		16	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
Kraft F33 – NW04 Satin – 8 mm Printed decors	$FIGRA_{0.2MJ}$ [W/s]	1	54	-
	$FIGRA_{0.4MJ}$ [W/s]		43	-
	THR_{600s} [MJ]		2.5	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		7	-
	TSP_{600s} [m^2]		20	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant

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Kraft F33 – C08.03 Diffuse – 8 mm Printed decors	$FIGRA_{0.2MJ}$ [W/s]	1	71	-
	$FIGRA_{0.4MJ}$ [W/s]		133	-
	THR_{600s} [MJ]		2.8	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		7	-
	TSP_{600s} [m^2]		27	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant
Kraft F33 – NA17 Matt Rock – 8 mm Printed decors	$FIGRA_{0.2MJ}$ [W/s]	1	98	-
	$FIGRA_{0.4MJ}$ [W/s]		56	-
	THR_{600s} [MJ]		3.5	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		7	-
	TSP_{600s} [m^2]		29	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant

3.3.7 Test report No. 22082C – Composition difference review

The determination of the worst-case composition (single-sided vs double sided) was performed on HPL with a thickness of 8 mm. This worst-case colour determination is also representative for the HPL panels with a thickness of 6 mm

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
Kraft + F33 – NA17 – Matt Rock – 8 mm (Printed decors - Single-sided)				
Surface flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Kraft + F33 – NA17 – Matt – 8 mm (Printed decors - Double-sided)				
Surface flame impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	30	-
	Ignition of filter paper		-	Compliant

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3.3.8 Test report No. R0016912 and 22082D – Composition difference review

The determination of the worst-case composition (single-sided vs double sided) was performed on HPL with a thickness of 8 mm. This worst-case colour determination is also representative for the HPL panels with a thickness of 6 mm.

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
Kraft F33 – NA17 Matt Rock – 8 mm Double-sided Printed decors	$FIGRA_{0.2MJ}$ [W/s]	1	89	-
	$FIGRA_{0.4MJ}$ [W/s]		53	-
	THR_{600s} [MJ]		3.4	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		7.1	-
	TSP_{600s} [m^2]		26	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant
Kraft F33 – NA17 Matt Rock – 8 mm Single-sided Printed decors	$FIGRA_{0.2MJ}$ [W/s]	1	75	-
	$FIGRA_{0.4MJ}$ [W/s]		24	-
	THR_{600s} [MJ]		3.4	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		6.9	-
	TSP_{600s} [m^2]		25	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant
Kraft F33 – NA17 Matt – 8 mm Double-sided Printed decors	$FIGRA_{0.2MJ}$ [W/s]	1	117	-
	$FIGRA_{0.4MJ}$ [W/s]		74	-
	THR_{600s} [MJ]		3.5	-
	LFS < edge		-	Compliant
	SMOGRA [m^2/s^2]		7	-
	TSP_{600s} [m^2]		23	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		 - -	 Compliant Compliant

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3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products			
Classification criteria			
Class Test method(s)	**B**	**C**	**D**
EN ISO 11925-2 Exposure = 30 s	$F_s \leq 150$ mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	$FIGRA_{0.2\ MJ} \leq 120$ W/s LFS < edge of specimen $THR_{600s} \leq 7.5$ MJ	$FIGRA_{0.4\ MJ} \leq 250$ W/s LFS < edge of specimen $THR_{600s} \leq 15$ MJ	$FIGRA_{0.4\ MJ} \leq 750$ W/s
Additional classification			
Smoke production	**s1** = SMOGRA ≤ 30 m^2/s^2 and $TSP_{600s} \leq 50$ m^2 ; **s2** = SMOGRA ≤ 180 m^2/s^2 and $TSP_{600s} \leq 200$ m^2; **s3** = not s1 or s2		
Flaming Droplets/particles	**d0** = no flaming droplets/ particles in EN 13823 within 600 s; **d1** = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; **d2** = not d0 or d1.		

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

4.2 CLASSIFICATION

The product, **Trespa® Meteon® FR, 6 mm**, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

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

d0

Reaction to fire classification: B – s2, d0

4.3 FIELD OF APPLICATION

4.3.1 Direct field of application

This classification is valid for the following product parameters:

Thickness	≥ 6 mm
Density	≥ 1350 kg/m^3

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Surface density	≥ 8.1 kg/m^2
Fire retardant	Yes
Other properties	Valid for all colours of the colour group Printed Decors (NA, NM, NW C, CM) Valid for all colours of colour group UNI (A, L)

As per NEN-EN 438-7:2005, this classification is valid for the following end use applications:

Substrate	Wood based substrate (Class D-s2, d0 or better) OR Non-combustible (class A1/A2, 870 kg/m³, according to EN 13238:2010) OR No substrate
Insulation	With or without insulation (Class A1/A2 – thickness 50 mm – Density 45 kg/m^3 following requirements of §B.2 of EN 438-7:2005) OR Without insulation
Application	Mounted any types of frames (wood, aluminium, steel)
Air gap	Yes
Methods and means of fixing	Mechanically up to 800 mm
Joints	With open horizontal joints (≤ 10 mm) or any type of closed joints.

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.

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5. LIMITATIONS

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

The classification assigned to the product in this report is within the context of system 1 **Assessment and Verification of Consistency of Performance (AVCP)** and **CE marking** under the **Construction Products Regulation**.

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

Robin Timmermans

Ondertekend door: Robin TIMMERMANS

Project Leader Reaction to Fire

Bauke Knottnerus

Signed by: Bauke KNOTTNERUS

Manager Reaction to Fire

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