

Reaction to fire classification report No. 18349C

Owner of the classification report

Trespa International B.V.
Wetering 20
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Introduction

This classification report defines the classification assigned to the product '**METEON®**' 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 10 pages

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **METEON®** is defined as a 'High Pressure Laminate (HPL) panel'.

Its classification is valid for the following end use application(s):

Used as HPL panels/sidings for exterior wall and ceiling finishes (including suspended ceilings).

b) Description of the tested product

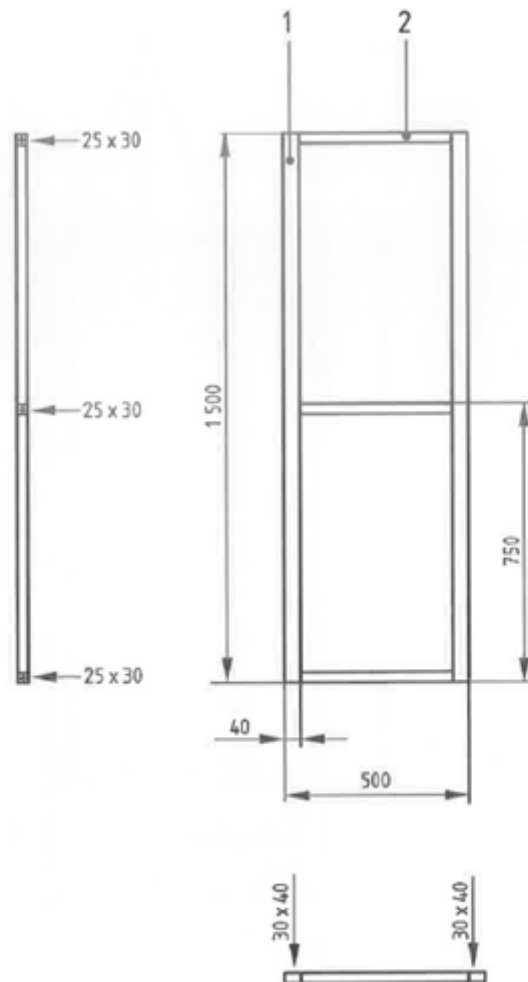
This description is based on information given by the sponsor.

Nominal values		
METEON®		
Material	High Pressure Laminate (HPL) panel suitable for exterior applications. The material consists of natural fibers impregnated with phenolic resin and a coat on the outside with acrylic resin.	
Manufacturer	Trespa International B.V.	
Supplier	Trespa International B.V.	
Product type	DUOCORE (6 mm)	DF (8 mm)
Total thickness (mm)	6,0	8,0
Total density (kg/m³)	1350	
Use of fire retardants	No	
Colours of the coating	A 12.1.8 (Passion Red)	
Organic content of the coating (g/m²)	Confidential information	
Colour groups	UNI	

		Nominal values	
Mounting and fixing			
EN ISO 11925-2		All test specimens were tested freehanging. The coated side (with passion red colour) was exposed to the flame. Per type of flame application, the first three specimens were tested lengthwise and the next three specimens were tested crosswise..	
EN 13823 (see Figure 3)			
Fixing		The HPL panels were mechanically fixed onto the untreated wooden battens using screws.	
Wooden battens		Frame as shown in Figures 1 and 2, made from untreated wooden battens, 30 mm x 40 mm for vertical members and 30 mm x 25 mm for horizontal members	
Air gap		Air gap with a thickness of 30 mm as a result of the depth of the wooden battens fixed on the HPL panels.	
Joints		An open (8 ± 2 mm) vertical joint at 200 mm from the inner corner and an open (8 ± 2 mm) horizontal joint at 500 mm from the bottom have been constructed in the HPL panels.	
Substrate		Particle board (Euro class D-s2,d0), not fire retardant treated, in accordance with EN 13238:2010	
Thickness (mm)		12 (*)	
Density (kg/m³)		712 (*)	
Insulation (as described in § B.2 of EN 438-7:2005)			
Material		Rock fibre insulation slabs	
Manufacturer		Rockwool Benelux BV	
Thickness (mm)		50	50 (*)
Density (kg/m³)		40	46 (*)

(*) Values verified by the laboratory.

Dimensions in millimetres

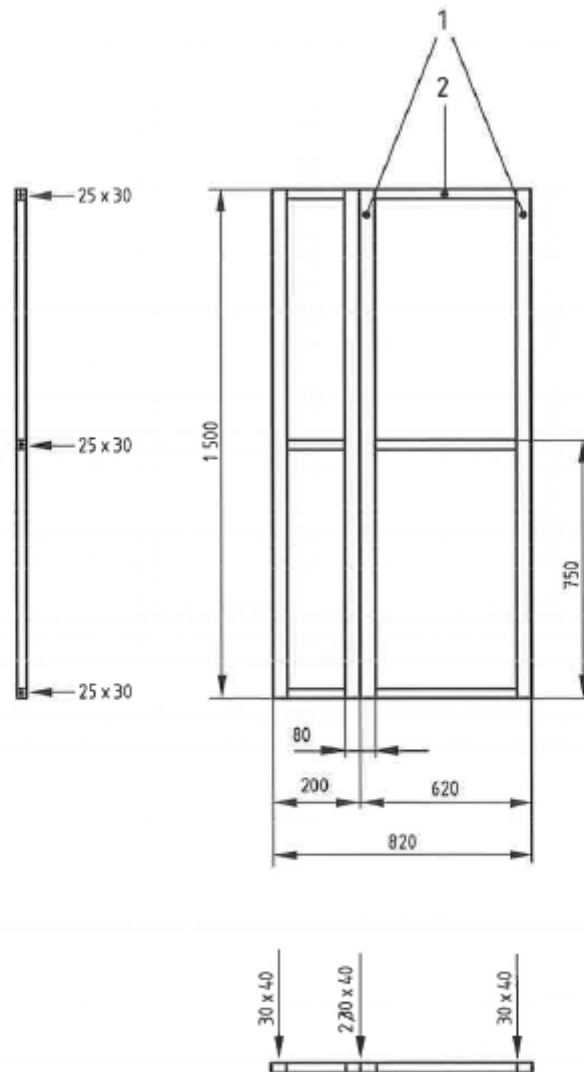


Key

- 1 Vertical frame member 40 mm x 30 mm
- 2 Horizontal frame member 25 mm x 30 mm

Figure 1: Wood-based frame for HPL panels, short wing

Dimensions in millimetres



Key

- 1 Vertical frame member 40 mm x 30 mm
- 2 Horizontal frame member 25 mm x 30 mm

Figure 2: Wood-based frame for HPL panels, long wing

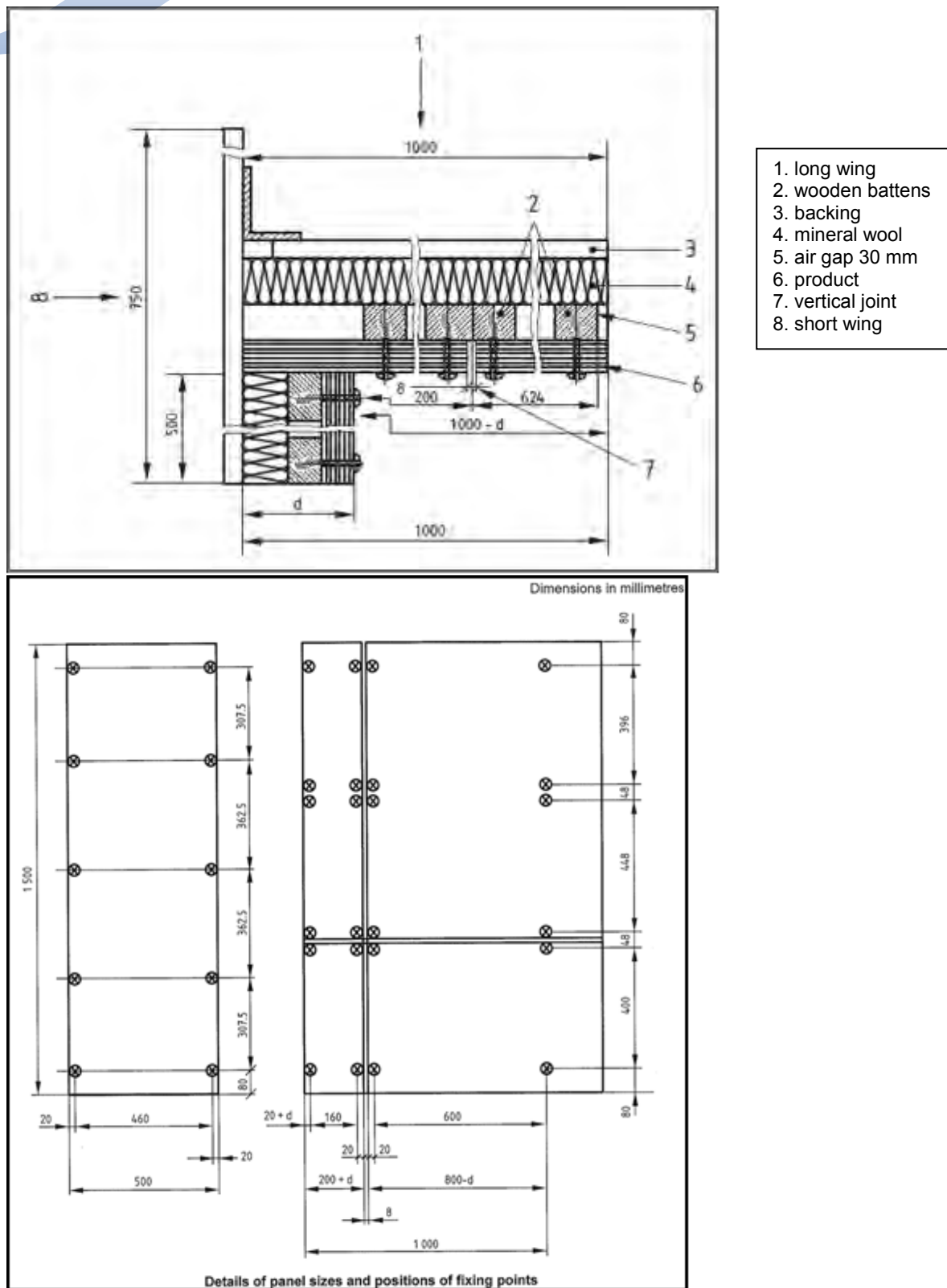


Figure 3: Mounting specifications for EN 13823:2010+A1:2014 (*)

(*) Drawing not to scale

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
WFRGENT nv Ghent, Belgium	Trespa International B.V. Weert, The Netherlands	18349A: 10/04/2017 18349D: 10/04/2017	EN ISO 11925-2 (November 2010/AC:2011)
WFRGENT nv Ghent, Belgium	Trespa International B.V. Weert, The Netherlands	18349B: 11/04/2017 18349E: 10/04/2017 & 11/04/2017	EN 13823 (July 2010+A1:2014)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class D-s2,d0		
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters	
EN ISO 11925-2 (*) (1) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - mid point 1,5 mm behind surface	F _s ≤ 150 mm Ignition filter paper	6	(-)	Yes	(-)	Yes	
			(-)	No	(-)	No	
	F _s ≤ 150 mm Ignition filter paper	6	(-)	Yes	(-)	Yes	
			(-)	No	(-)	No	
(*) The material didn't melt nor pull away from the pilot burner. (1) Based on the results obtained in test report No. 18349D – Product type DF, colour A.12.1.8, thickness 8 mm.							
EN 13823 (2)	FIGRA _{0,2 MJ} (W/s)	5	166	(-)	(-)	(-)	
	FIGRA _{0,4 MJ} (W/s)		166	(-)	≤ 750	(-)	
	LFS _{<edge}		(-)	Yes	(-)	(-)	
	THR _{600s} (MJ)		12,3	(-)	(-)	(-)	
	SMOGRA (m²/s²)		5	(-)	≤ 180	(-)	
	TSP _{600s} (m²)		78	(-)	≤ 200	(-)	
	Flaming droplets/particles						
	f < 10 s		(-)	No	(-)	No	
	f > 10 s		(-)	No	(-)	No	
(2) Based on the results obtained in test report No. 18349E – Product type DF, colour A 12.1.8, thickness 8 mm.							

(-) Not applicable.

Test method	Parameter	Number of tests	Results		Criteria for Class D-s2,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (3) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - mid point 1,5 mm behind surface	F _s ≤ 150 mm	6	(-)	Yes	(-)	Yes
	Ignition filter paper		(-)	No	(-)	No
	F _s ≤ 150 mm	6	(-)	Yes	(-)	Yes
	Ignition filter paper		(-)	No	(-)	No
(*) The material didn't melt nor pull away from the pilot burner.						
(3) Based on the results obtained in test report No. 18349A – Product type DUOCORE, colour A.12.1.8, thickness 6 mm.						
EN 13823 (4)	FIGRA _{0,2 MJ} (W/s)	3	129	(-)	(-)	(-)
	FIGRA _{0,4 MJ} (W/s)		129	(-)	≤ 750	(-)
	LFS _{<edge}		(-)	Yes	(-)	(-)
	THR _{600s} (MJ)		16,2	(-)	(-)	(-)
	SMOGRA (m²/s²)		6	(-)	≤ 180	(-)
	TSP _{600s} (m²)		87	(-)	≤ 200	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
(4) Based on the results obtained in test report No. 18349B – Product type DUOCORE, colour A.12.1.8, thickness 6 mm.						

(-) 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. The product standard EN 438-7:2005 and Egolf recommendation EGR 003-2016 have been used for the direct field of application.

b) Classification

The product **METEON®** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
D	s2	d0

c) Field of application

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

- Substrate: Wood based substrates and substrates of Euro classes A1 and A2-s1,d0, with a thickness of at least 10 mm and a density of at least 510 kg/m³
- 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)

This classification is valid for the following product parameters:

- Commercial name: METEON®
- Product types: DUOCORE & DF
- Nominal thickness of the HPL panel:
 - 6 mm for the product type DUOCORE
 - 8 mm and all greater thicknesses for the product type DF
- Nominal density of the HPL panel: 1350 kg/m³
- Colours: All colours of the colour group UNI and with an organic content lower than or equal to the tested product (§1b).
- Use of fire retardants: No

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.

The classification assigned to the product in this report is appropriate to a Declaration of Performance (DoP) of the essential characteristics of the construction product by the manufacturer within the context of a System 1 Assessment and Verification of Constancy of Performance (AVCP).

Under the Construction Products Regulation (CPR: EU 305/2011), such a Declaration of Performance (DoP) is a requirement for affixing the CE marking.

PREPARED BY

APPROVED BY

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