

Reaction to fire classification report No. 17954L

Owner of the classification report

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Introduction

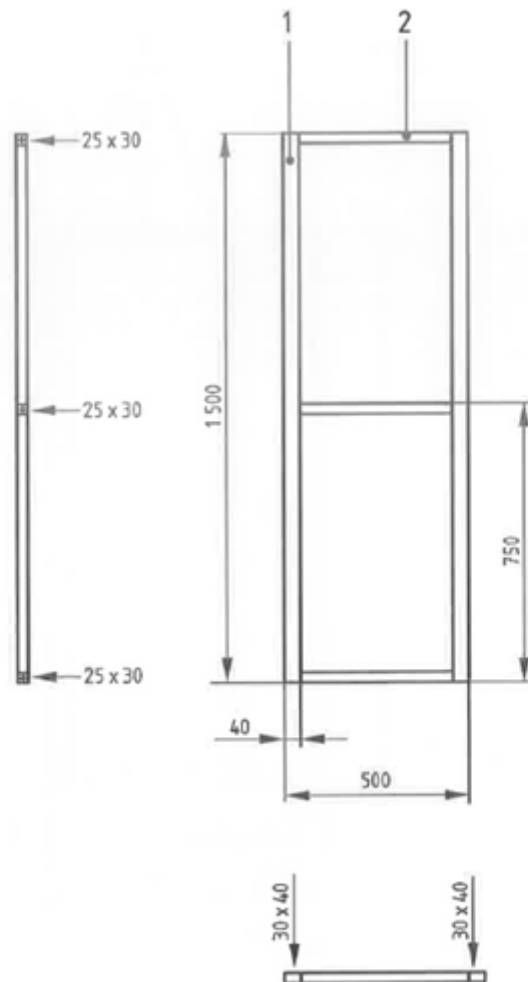
This classification report defines the classification assigned to the product '**METEON FR**' in accordance with the procedures given in the standard EN 13501-1:2007+A1:2009: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 13 pages

Nominal values	
Mounting and fixing	
EN ISO 11925-2	The products were tested freehanging and the front side (coating) of the products was exposed to the flame. The products were also tested lengthwise as well as crosswise.
EN 13823 (see Figure 3)	
<i>Fixing</i>	The HPL panels were mechanically fixed onto the untreated wooden battens using screws.
<i>Wooden battens</i>	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
<i>Air gap</i>	Air gap with a thickness of 30 mm as a result of the depth of the wooden battens fixed on the HPL panels.
<i>Joints</i>	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.
<i>Backing</i>	Calcium silicate board (according to EN 13238:2010).
<i>Thickness (mm)</i>	11 ± 2 (criteria according to EN 13238:2010)
<i>Density (kg/m³)</i>	870 ± 50 (criteria according to EN 13238:2010)
Insulation (as described in § B.2 of EN 438-7:2005)	
Material	Rock fibre insulation slabs
Manufacturer	Rockwool Benelux BV
Thickness (mm)	50
Density (kg/m ³)	40
	50 (*)
	39 (*)

(*) Measured by the laboratory

Dimensions in millimetres

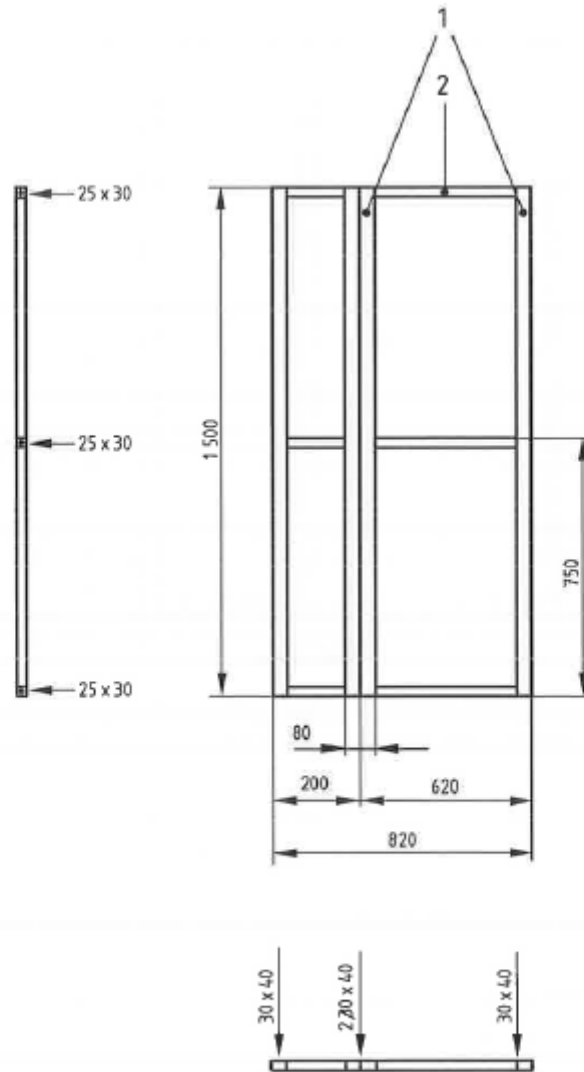


Key

- 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

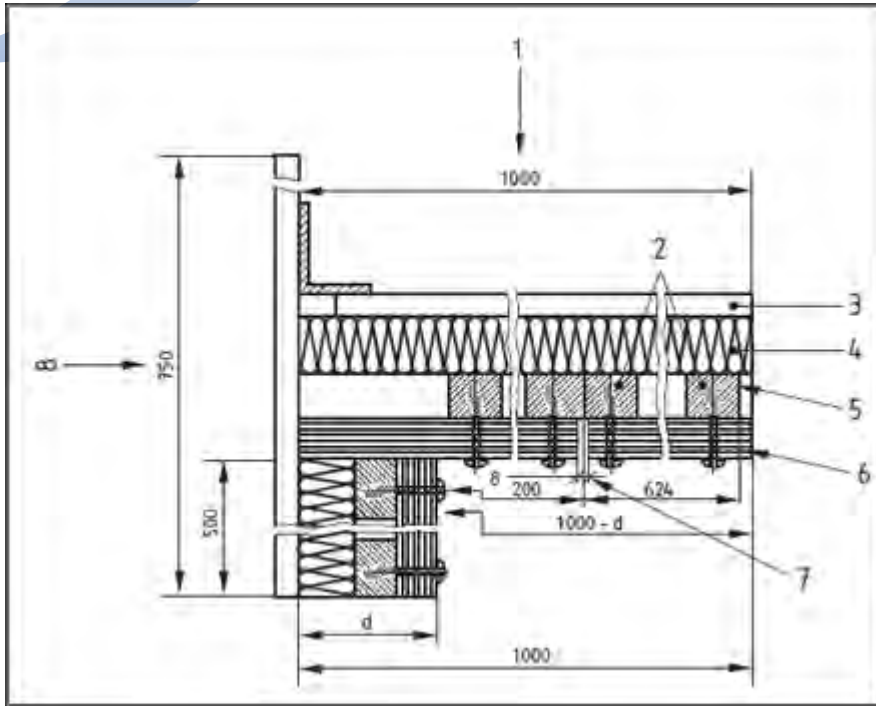
Dimensions in millimetres



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



- 1. long wing
- 2. wooden batten
- 3. backing
- 4. mineral wool
- 5. air gap 30 mm
- 6. product
- 7. vertical joint
- 8. short wing

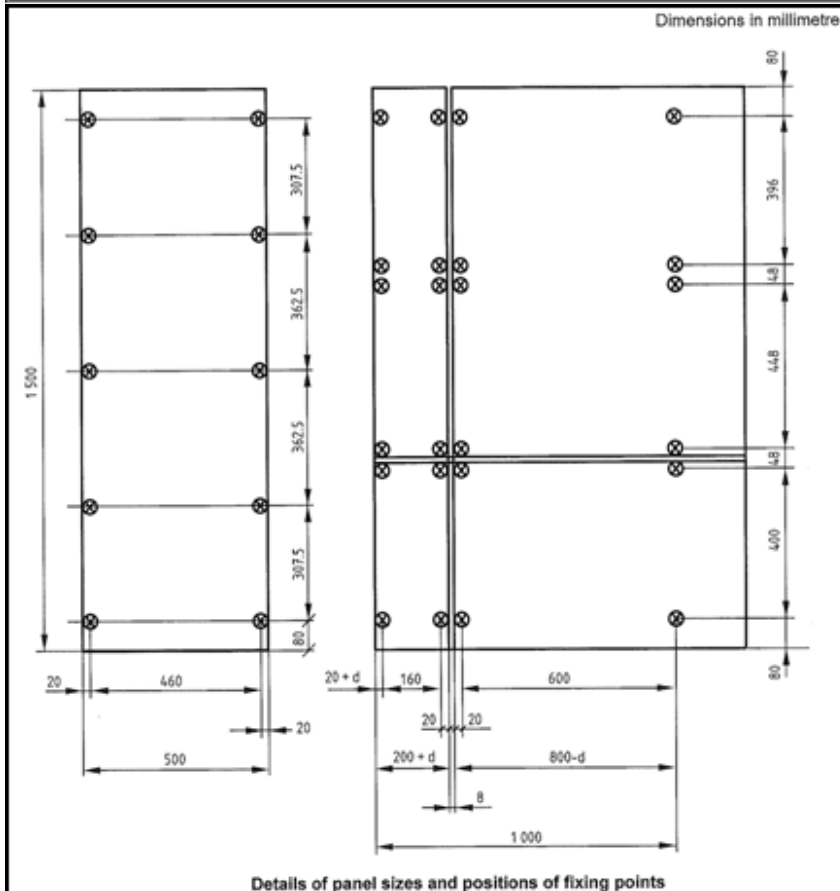


Figure 3: Mounting specifications for EN 13823:2010+A1:2014 (*)

(*) Drawing not to scale

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

a) Test reports and EXAP report

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	17954F: 12/09/2016 17954G: 12/09/2016 17954H: 12/09/2016 17954J: 12/09/2016 17954K: 12/09/2016	EN ISO 11925-2 (November 2010/AC:2011)
WFRGENT nv Ghent, Belgium	Trespa International B.V. Weert, The Netherlands	17954A: 12/09/2016 17954B: 12/09/2016 17954C: 13/09/2016 17954D: 13/09/2016 17954E: 14/09/2016	EN 13823 (July 2010+A1:2014)
WFRGENT nv Ghent, Belgium	Trespa International B.V. Weert, The Netherlands	17954M	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:						
<u>Surface exposure</u> - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
<u>Edge exposure</u> - mid point 1,5 mm behind surface	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
(*) The material didn't melt nor pull away from the pilot burner.						
(1) Based on the results obtained in test report No. 17954H – Product type KRAFT, colour M 51.0.1, thickness 8 mm.						
EN 13823 (2)	FIGRA _{0,2 MJ} (W/s)	3	64	(-)	≤ 120	(-)
	FIGRA _{0,4 MJ} (W/s)		46	(-)	(-)	(-)
	LFS _{<edge}		(-)	Yes	(-)	Yes
	THR _{600s} (MJ)		3,1	(-)	$\leq 7,5$	(-)
	SMOGRA (m ² /s ²)		7	(-)	≤ 30	(-)
	TSP _{600s} (m ²)		48	(-)	≤ 50	(-)
	Flaming droplets/particles					
	f < 10 s		(-)	No	(-)	No
	f > 10 s		(-)	No	(-)	No
(2) Based on the results obtained in test report No. 17954B – Product type KRAFT, colour A 12.1.8, thickness 8 mm.						

(-) Not applicable.

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 (*) (3) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - mid point 1,5 mm behind surface	$F_s \leq 150$ mm Ignition filter paper	6	(-)	Yes	(-)	Yes	
			(-)	No	(-)	No	
	$F_s \leq 150$ mm Ignition filter paper	6	(-)	Yes	(-)	Yes	
			(-)	No	(-)	No	
(*) The material didn't melt nor pull away from the pilot burner. (3) Based on the results obtained in test report No. 17954J – Product type KRAFT, colour NW04, thickness 6 mm.							
EN 13823 (4)	FIGRA _{0,2 MJ} (W/s)	3	81	(-)	≤ 120	(-)	
	FIGRA _{0,4 MJ} (W/s)		81	(-)	(-)	(-)	
	LFS _{<edge}		(-)	Yes	(-)	Yes	
	THR _{600s} (MJ)		6,8	(-)	≤ 7,5	(-)	
	SMOGRA (m ² /s ²)		9	(-)	≤ 180	(-)	
	TSP _{600s} (m ²)		85	(-)	≤ 200	(-)	
	Flaming droplets/particles						
	f < 10 s		(-)	No	(-)	No	
f > 10 s	(-)	No	(-)	No			
(4) Based on the results obtained in test report No. 17954E – Product type KRAFT, colour NW04, thickness 6 mm.							

(-) Not applicable.

Preliminary tests EN ISO 11925-2

Determination of the worst case colour (group) for thickness 8 mm

		KRAFT colour A12.1.8 (UNI)	KRAFT colour M51.0.1 (METALLICS)	KRAFT colour NW04 (NW/NA/NM)
<u>Edge exposure</u>	$F_s \leq 150$ mm	Yes	Yes	Yes
	Ignition filter paper	No	No	No
	Average maximal flame spread (mm)	30,0	58,3	40,8
<u>Surface exposure</u>	$F_s \leq 150$ mm	Yes	Yes	Yes
	Ignition filter paper	No	No	No
	Average maximal flame spread (mm)	55,0	50,0	30,0

Based on the results obtained in test reports Nos 17954G, 17954H and 17954K.

Determination of the worst case colour (group) for thickness 6 mm

		KRAFT colour A12.1.8 (UNI)	KRAFT colour NW04 (NW/NA/NM)
<u>Edge exposure</u>	$F_s \leq 150\text{mm}$	Yes	Yes
	Ignition filter paper	No	No
	Average maximal flame spread (mm)	27,5	34,2
<u>Surface exposure</u>	$F_s \leq 150\text{mm}$	Yes	Yes
	Ignition filter paper	No	No
	Average maximal flame spread (mm)	50,8	62,5

Based on the results obtained in test reports Nos 17954F and 17954J.

Preliminary tests EN 13823

Determination of the worst case colour (group) for thickness 8 mm

	FIGRA (W/s)	THR _{600s} (MJ)	SMOGRA (m ² /s ²)	TSP _{600s} (m ²)
KRAFT colour A12.1.8 (UNI)	64	3,1	7	48
KRAFT colour M51.0.1 (METALLICS)	80	3,0	5	42
KRAFT colour NW04 (NW/NA/NM)	64	2,5	6	40

Based on the results obtained in test reports Nos 17954B, 17954C and 17954D.

Determination of the worst case colour (group) for thickness 6 mm

	FIGRA (W/s)	THR _{600s} (MJ)	SMOGRA (m ² /s ²)	TSP _{600s} (m ²)
KRAFT colour A12.1.8 (UNI)	82	6,5	10	100
KRAFT colour NW04 (NW/NA/NM)	81	6,8	9	85

Based on the results obtained in test reports Nos 17954A and 17954E.

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 and is based on the product standard EN 438-7:2005.

b) Classification

The product **METEON FR in thickness 8 mm or greater** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	s1	d0

The product **METEON FR in thickness 6 mm** 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 conditions:

- Substrate: Euroclass A2-s1,d0 or better, excluding gypsum plasterboards (paper faced), with a thickness of at least 9 mm and a density of at least 652,5 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 (according to § B.2 of EN 438-7:2005)

This classification is valid for the following product parameters:

METEON FR 8 mm or greater (Euroclass B-s1,d0)

- Product type: KRAFT
- Nominal thickness of the HPL panel: 8 mm or greater
- Nominal density of the HPL panel: 1350 kg/m³
- Colours: All colours of the colour groups UNI, METALLICS and NW/NA/NM with an organic content lower than or equal to the tested products (§1b).
- Use of fire retardants: Yes
- Amount of fire retardants: Confidential information

METEON FR 6 mm (Euroclass B-s2,d0)

- Product type: KRAFT
- Nominal thickness of the HPL panel: 6 mm
- Nominal density of the HPL panel: 1350 kg/m³
- Colours: All colours of the colour groups UNI and NW/NA/NM with an organic content lower than or equal to the tested products (§1b).
- Use of fire retardants: Yes
- Amount of fire retardants: Confidential information

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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