



Laboratory for Fire Safety

*Classification of reaction to fire performance in
accordance with EN 13501-1:2007+A1:2009 of Trespa
Meteon FR bonded with Bostik Paneltack*

Classification report

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Classification of reaction to fire performance in accordance with EN 13501-1:2007+A1:2009 of Trespa Meteon FR bonded with Bostik Paneltack

Classification report

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Product name Trespa Meteon FR bonded with Bostik Paneltack

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1 Introduction

On behalf of Bostik B.V. an investigation was performed with respect to the reaction to fire properties of Trespa Meteon FR bonded with Bostik Paneltack.

This classification report defines the reaction to fire classification of the product in accordance with the procedures described in EN 13501-1: 2007 + A1: 2009 and EN 438-7:2005: "HPL composite panels for internal and external wall and ceiling finishes".



For this type of measurements the Laboratory for Fire safety has been accredited by the Dutch "Raad voor Accreditatie" (RvA).

The RvA is member of EA MLA (**EA MLA: European Accreditation Organisation MultiLateral Agreement**: <http://www.european-accreditation.org>).

EA: "Certificates and reports issued by bodies accredited by MLA and MRA members are considered to have the same degree of credibility, and are accepted in MLA and MRA countries."

2 Product description

The product investigated is Trespa Meteon FR bonded with Bostik Paneltack, hereinafter also called 'the product'. The product is intended to be used as wall and ceiling finish for internal and external applications.

According to the sponsor the product is composed of:

Panel

- Product name: Trespa Meteon FR
- Description: Compact laminate panel
- Thickness of panel: 6 mm
- Density: 1456 kg/m³ (measured)
- Surface weight: 8.7 kg/m³ (measured)
- Colour: Red (A12.1.8), black core
- Surface: Satin

Bonding system

- Product name: Bostik Paneltack grey
- Description: Adhesive, applied on each vertical profile of the subframe, as one uninterrupted bead
- Dimensions: 3 mm thickness, 12 mm width
- Density: 1400 kg/m³
- Product name: Bostik Foamtape black
- Description: Foamtape for initial bonding of the panels, applied on each vertical profile of the subframe
- Dimensions: 3 mm thickness, 12 mm width
- Density: 60 kg/m³

- Product name: Bostik Primer SX black
- Description: Pretreatment primer for wooden support construction
- Product name: Bostik Primer Paneltack
- Description: “wash primer” for the improvement of the adhesion

Subframe

- Product name: Wood-based frame for HPL panels
- Description: Meranti frame members

Peutz did not conduct any sampling of this product and the sponsor of the test did not provide any information about the sampling operations.

The sponsor of the test has confirmed that flame retardant additives were utilised in the production of the product.

2.1 Mounting and fixing ISO 11925-2

Substrate: No substrate was used.

Mounting and fixing: The products were tested free hanging and the front side of the product was exposed to the flame.

The products were tested lengthwise as well as crosswise.

Seams: No seams were present.

2.2 Mounting and fixing EN 13823

Mounting: Mounted on the wooden subframe. See drawings in Annex 1 of this report. The wooden subframe is mounted against a non-combustible backing board (Calcium silicate board with a thickness of 12 mm, Class A2-s1,d0).

Fixing: The product was fixed using Bostik Paneltack bonding system in combination with Bostik Foamtape on the wooden subframe. No screws were used.

Subframe: Wood-based frame for HPL panels (Meranti frame members) in accordance with EN 438-7, Annex B.

Joints: In the long wing a horizontal and a vertical joint of 8 mm were present. The horizontal joint was open. The vertical joint was closed behind the panel by the vertical frame members. The joints in between the panels were open joints

Cavity: Behind the test specimen an air gap was present, depth 80 mm, filled with 50 mm Rockwool 211, resulting in 30 mm open air gap behind the panels.

3 Test reports and test results in support of the classification

3.1 Test reports

The following test reports were used:

Name of the laboratory	Name of client	Number and date of the test report	Test method
Peutz bv	Bostik B.V.	Y 1884-1E-RA-001, May 7 th 2018	EN 13823:2010
Peutz bv	Bostik B.V.	Y 1884-2E-RA-001, May 7 th 2018	EN-ISO 11925-2:2010

3.2 Test results

The test results are summarised as follows:

Test method	Parameter	Number of tests	Results		Criteria for class B-s1,d0	
			Continuous parameters average	Compliance parameters	Continuous parameters	Compliance parameters
EN-ISO 11925-2, flame application time 30 s						
– Surface exposure	F _s ≤ 150 mm	6	max. 24mm	-	≤150 mm	-
	Ignition filter paper		-	N	-	N
– Edge exposure	F _s ≤ 150 mm	6	max. 18 mm	-	≤ 150 mm	-
	Ignition filter paper		-	N	-	N
EN 13823						
	THR _{600s} [MJ]	3	4.6	-	≤ 7.5	-
	FIGRA _{0,2MJ} [W/s]		71.7	-	≤ 120	-
	FIGRA _{0,4MJ} [W/s]		71.7	-	-	-
	TSP _{600s} [m ²]		28.3	-	≤ 50	-
	SMOGRA [m ² /s ²]		4.7	-	≤ 30	-
	LFS < edge		-	Y	-	Y
	Droplets/particles – FDP ≤ 10 s – FDP > 10 s		-	N N	-	N N

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009 and EN 438-7:2005: "HPL composite panels for internal and external wall and ceiling finishes".

4.2 Classification

The product, Trespa Meteon FR bonded with Bostik Paneltack, has been classified to its reaction to fire behaviour as:

B

The additional classification for the smoke production is:

s1

The additional classification for flaming droplets is:

d0

Reaction to fire classification:

B-s1, d0

4.3 Field of application

The classification is valid for the following product parameters:

- Composition: Composition as tested. No variation in the type or composition of material is allowed.
- Thickness: 6 mm or greater.
- Nominal density: 1456 kg/m³.
- Colours: All colours with an organic content lower than or equal to the tested products.
- Use of fire retardants: Yes.

The classification is valid for the following end use applications:

- Mounting and fixing: Panels mounted to the wooden frame with the Bostik Paneltack bonding system.
Valid for all types of supporting frames (particularly wood and aluminium) against non-combustible walls (A2-s1,d0 or better, e.g. concrete, masonry walls, excluding gypsum plasterboard), with a thickness of at least 9 mm and a density of at least 652,5 kg/m³.
- Insulation: The result is valid with the standard insulation specified in EN 438-7 B.2 and also valid for the same type of panel used without insulation.
Insulation: 50 mm mineral wool with a density 30-70 kg/m³ according to EN 13162.
Organic content of the insulation $\leq 5\%$.
Melting point of the insulation $> 1000\text{ }^{\circ}\text{C}$.
The result is also valid for the same type of panel used without insulation.
- Joints: Horizontal joints are open and vertical joints are closed by the subframe.
The result is also valid for the same type of panel used in applications with open horizontal joint $\leq 8\text{ mm}$.
The result is also valid for the same type of panel used in applications without joints.
The result is also valid for the same type of panel used in applications with any type of closed horizontal joint (e.g. using profiles or tongues).
- Air gap: Open air gaps.
- Other: The product is to be used as wall and ceiling finish for internal and external applications.

5 Limitations

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

Mook,

J.J. Mertens, MSc



Head of Laboratory for Fire Safety

D.J. Den Boer, BEng



Management

This report contains 9 pages

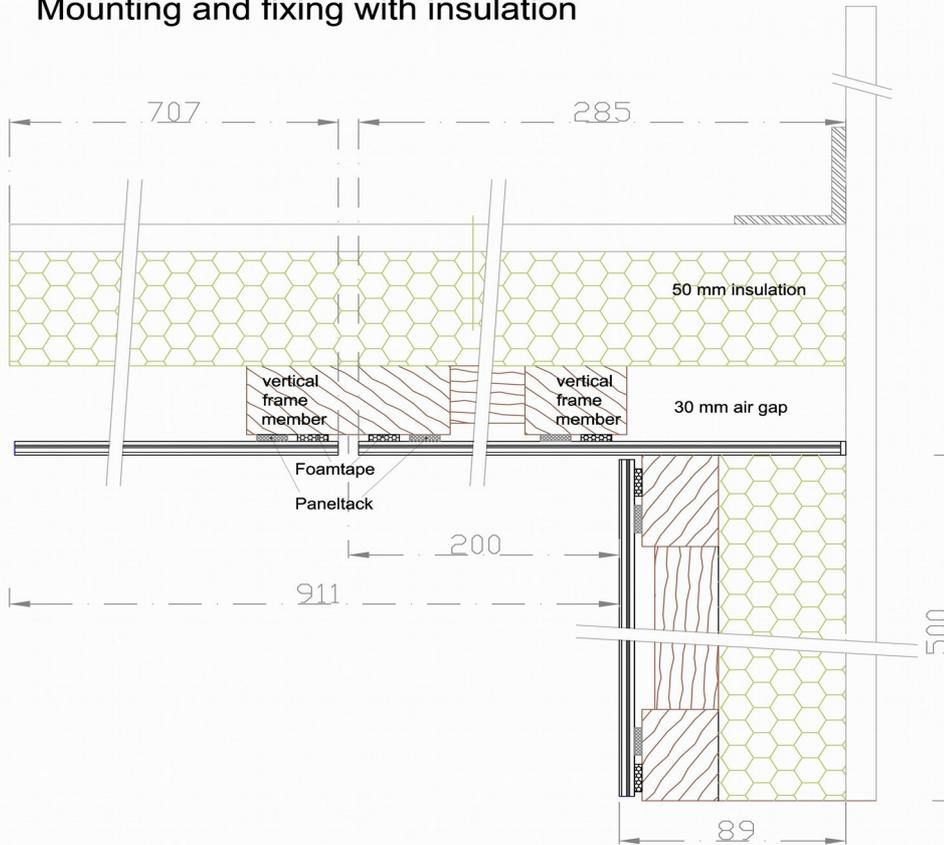
Appendix I Drawings

(1 page)

Appendix 1 Drawings



Mounting and fixing with insulation



- Bostik Foamtape 
- Bostik Paneltack 