



Laboratory for fire safety

*Classification of reaction to fire performance in
accordance with EN 13501-1:2007+A1:2009 of Grespania
Coverlam bonded with Bostik Paneltack HM*

Classification report

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Classification of reaction to fire performance in accordance with EN 13501-1:2007+A1:2009 of Grespania Coverlam bonded with Bostik Paneltack HM

Classification report

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Notified Body no. NB 2264

Product name Grespania Coverlam bonded with Bostik Paneltack HM

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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 Grespania Coverlam bonded with Bostik Paneltack HM.

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 ETAG N° 034 (2012): "Kits for external wall claddings"



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 Grespania Coverlam bonded with Bostik Paneltack HM, hereinafter also called 'the product'. The product is intended to be used as wall and ceiling finish for internal and external applications.

Tile

- Product name: Grespania Coverlam
- Description: Laminated porcelain tile
- Thickness of tile: 5.6 mm
- Surface weight: 14 kg/m² (measured)
- Colour: Grey (Pirineos Grafito)

Bonding system

- Product name: Bostik Paneltack HM
- Description: Adhesive
- Thickness: 3 mm
- Density: 1400 kg/m³

- Product name: Bostik Foam Tape
- Description: Foam Tape for initial bonding of the porcelain tile
- Dimensions: 3 mm thickness, 13 mm width
- Density: 60 kg/m³



- Product name: Bostik Primer MSP
- Description: Pretreatment primer for porcelain tile
- Product name: Bostik Simson Prep M
- Description: Pretreatment primer for aluminium profiles

Subframe

- Product name: Lomax frame system
- Description: Aluminium Profiles (T + L), brackets en supporting clips

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 no flame retardant additives were utilised in the production of the product.

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 1686-1E-RA-001, October 4, 2017	EN 13823:2010
Peutz bv	Bostik B.V.	Y 1686-2E-RA-001, October 4, 2017	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	$F_s \leq 150$ mm	6	max. 19 mm	-	≤ 150 mm	-
	Ignition filter paper		-	N	-	N
– Edge exposure	$F_s \leq 150$ mm	6	max. 4 mm	-	≤ 150 mm	-
	Ignition filter paper		-	N	-	N
EN 13823						
	THR _{600s} [MJ]	3	3	-	≤ 7.5	-
	FIGRA _{0,2MJ} [W/s]		44.8	-	≤ 120	-
	FIGRA _{0,4MJ} [W/s]		44.8	-	≤ 120	-
	TSP _{600s} [m ²]		18.4	-	≤ 50	-
	SMOGRA [m ² /s ²]		0.7	-	≤ 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 ETAG 034 (2012): "Kits for external wall claddings"

4.2 Classification

The product, Grespania Coverlam bonded with Bostik Paneltack HM, 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 end use conditions:

Mounting and fixing:

- Tiles glued to the metal frame with the Bostik Paneltack HM system.
- Results are also valid with higher density of the fixing devices.

Substrates:

- Concrete walls, masonry walls.

Insulation:

- Ventilated constructions: The subframe is backed with a minimum 50 mm mineral wool insulation with a density 30-70 kg/m³ according to EN 13162 with a cavity of minimal 40 mm between the tiles and the insulation.
- Results are also valid for a greater thickness of mineral wool insulation layer with the same density and the same or better reaction to fire classification.
- Results are also valid for a cavity without insulation.

Cavity:

- The depth of the cavity is minimum 40 mm unfilled.
- Test results are also valid for a larger cavity between the back of the tile and the insulation behind the subframe.

Joints:

- Horizontal joints are open and vertical joints are closed with an aluminium profile
- The result is also valid for the same type of tile used in applications with open horizontal joint ≤ 8 mm, and for use in applications with horizontal joints closed by steel or aluminium profiles.
- Maximum joint width: 8 mm.

The classification is also valid for the following product parameters:

- For greater dimensions (height and width) of cladding elements.
- Use of Bostik foam tape with 3 mm height and 13 mm width on each vertical profile.
- Use of Bostik Paneltack HM, 3 mm height and 13 mm width on each vertical profile.

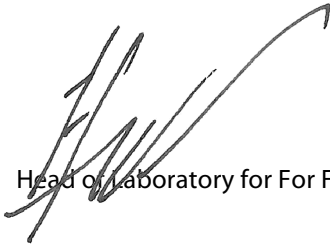
5 Limitations

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

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Head of Laboratory for For Fire Testing



Management

This report contains 9 pages