TÜV Rheinland Nederland B.V.



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Report

Project number: T10-30209 Report number: T10.30209.01br

Received:

Floor covering tile with magnetic underlay marked as "MFD";

1. PVC tiles; TÜV reference: MT10.30209.01

2. Magnetic underlay; TÜV reference: MT10.30209.02

Request:

Classification of burning behaviour according to EN 13501:2007.

Test method:

Identification parameters

: EN 14041

Ignitability (direct impingement of flame) : EN ISO 11925-2

Reaction to fire (radiant panel)

: EN ISO 9239-1

Results:

See page two up to and including three.

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Date

December 7, 2010

Project number T10-30209

Report number T10.30209.01br

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Your reference

Article MFD

Appendix

TÜV Rheinland Nederland B.V. applies General Terms & Conditions which are filed at the office of the Clerk for civil affairs at the Court in Zutphen (the Netherlands) under number 12/2009, dated March 26th 2009



Test results:

> Identification parameters EN14041

Product : PVC tile*

Dimension, mm : 457.2x457.2x3.0*

Surface structure : structured

Colour and design : uni Total mass per unit area g/m^2 : 5300*

Total thickness, mm : 3.0*

Product : magnetic underlay

Total mass per unit area g/m^2 : 2000 Total thickness, mm : 0.5

* = manufacturer's declaration

➤ Ignitability EN-ISO 11925-2

Conditioning time, climate : min. 3 days, 23 ± 2 °C and 50 ± 5 %

Description of substrate : 6 mm. Fibre cement board, 1800 kg/m³.

Flame application : Surface.
Application time : 15 seconds.

Direction:	In production					
Total burning time ¹ (15 s)	15	15	15	15	15	15
Flame tip reaches 150 mm (s)	no	no	no	no	no	no
Extent of damaged area, length (mm)	35	45	35	50	47	45
Extent of damaged area, width (mm)	9	10	10	11	11	11
Material melts (yes/no)	yes	yes	yes	yes	yes	yes
Shrinks away ² (yes/no)	no	no	no	no	no	no
Glowing ³ (sec)	no	no	no	no	no	no
Flaming debris (yes/no)	no	no	no	no	no	no
Ignition of filter paper (yes/no)	no	no	no	no	no	no

¹ Inclusive a flame application time of 15 or 30 seconds with surface or edge impingement

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² Shrinks away from flame without being ignited

³ The time at which it occurs and its duration



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Article

MFD

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Radiant Panel test EN ISO 9239-1

Conditioning time, climate

: min. 3 days, 23 ± 2 °C and 50 ± 5 %

Description of substrate

: Fibre cement board, 6±1 mm, 1800±200 kg/m³

conforming to EN 13238

Sampling procedure

: by contractor.

Description of cleaning used

: none.

Fixing method

: loose lai	d.	
CRF	peak light	Smoke
	attenuation	production
(kW/m^2)	(%)	(%.min)
0.5	24.0	1.47

Flame	CRF	peak light	Smoke	
spread		attenuation	production	
(cm)	(kW/m^2)	(%)	(%.min)	
18,0	9,5	34,2	147	
28,0	7,7	36,7	161	
19,0	9,4	46,8	189	
19,0	9,4	34,1	143	
22,0	8,8	39,2	164	
	spread (cm) 18,0 28,0 19,0	spread (cm) (kW/m²) 18,0 9,5 28,0 7,7 19,0 9,4 19,0 9,4	spread (cm) (kW/m²) attenuation (%) 18,0 9,5 34,2 28,0 7,7 36,7 19,0 9,4 46,8 19,0 9,4 34,1	

Remarks: no flashing, transitory- or sustained flaming,

Conclusion:

According to EN 13501 the tested sample of the aforementioned quality MFD, PVC tile on magnetic underlay, meets the requirements of Class B_{FL} - s1.

The test results only relate to the behaviour of the test specimens of the examined product under the particular conditions of the test in laboratory conditions; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. The method might not be suitable if the product is exposed to much larger flames or heat radiant sources.

Project leader:

Mr. J. Brinks

Author:

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^{*} specimen extinguished naturally