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Testreport

Project number: 89210247
Report number: 89210247.01br

Date
03/02/2017

Project number
89210247

Received:

A floor covering combination (underlay system, glue and floorcovering), marked as:
“**Jumpax Prefab, Jumpax Nature with 4 mm CocoFloor**”;
TÜV-reference: MT16-117021.16

Report number
89210247.01br

Phone number client
+31 (0) 570 85 55 33

Sampling procedure:

The samples are selected by the applicant. The test house has had no influence on the sampling procedure.

Fax number client
+31 (0) 570 85 55 44

The samples have been received on 15/12/2016.

Order:

Classification of burning behaviour according to EN 13501-1:2007+ A1:2009.

Article
Jumpax Prefab, Jumpax Nature
with 4 mm CocoFloor

Test methods: Ignitability of products subjected to direct impingement of flame (ISO 11925-2:2010/C1:2011) and determination of the burning behaviour using a radiant heat source (ISO 9239-1:2010)

Appendix
I : Flooring Radiant Panel Single
Specimen Report – 6 pages

Results:

See page three and four.

Appendix:

See page five up to and including ten.

TRN 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 35/2010,
dated November 17th 2010.

PRODUCT IDENTIFICATION

Applicant : Unifloor Underlay Systems
Name : Jumpax Prefab, Jumpax Nature with 4 mm
CocoFloor *
Tested in combination with : Prefab Tapis 10mm*
Production direction : No production direction applicable*
Total thickness (mm) : 30.8**
Total mass (gr/m²) : 15865**
Density (kg/m³) : 514**

* Applicant's declaration

** Determination by the test house after conditioning to constant mass is achieved.

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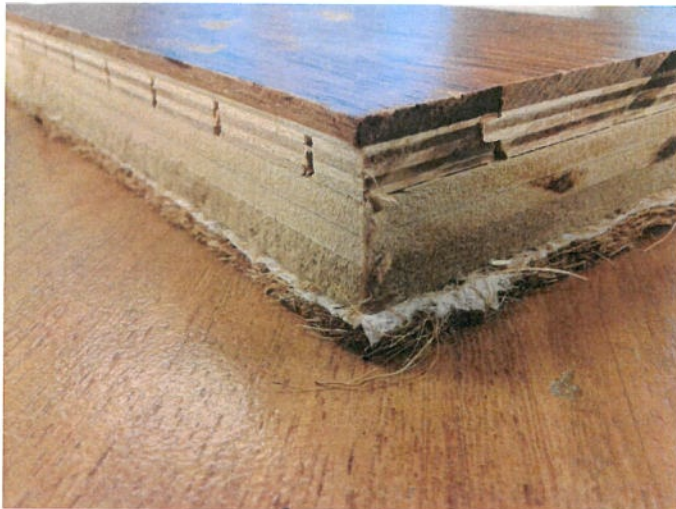


Figure 1. Picture of the received sample

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TEST RESULTS

Ignitability of products subjected to direct impingement of flame Method EN ISO 11925-2 :2010/C1:2011

Date of testing : 03/01/2017
 Conditioning time, climate : ≥ 7 days, 23 ± 2 °C and 50 ± 5 %
 Description of substrate : Fibre cement board, 8 ± 2 mm, 1800 ± 200 kg/m³
 conforming to EN 13238.
 Flame application : Surface.
 Flame application time : 15 seconds.

Orientation:			
Total burning time ¹	15	15	15
Flame tip reaches 150 mm (s)	No	No	No
Extent of damaged area, length (mm)	50	50	50
Extent of damaged area, width (mm)	12	10	10
Material melts (yes/no)	Yes	Yes	Yes
Shrinks away ² (yes/no)	No	No	No
Glowing ³ (sec)	No	No	No
Flaming debris (yes/no)	No	No	No
Ignition of filter paper (yes/no)	No	No	No

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

2 Shrinks away from flame without being ignited

3 The time at which it occurs and its duration

Determination of the burning behaviour using a radiant heat source Method EN ISO 9239-1:2010

Date of testing : 09/01/2017 and 11/01/2017
 Conditioning time, climate : ≥ 7 days, 23 ± 2 °C and 50 ± 5 %
 Description of substrate : Fibre cement board, 8 ± 2 mm, 1800 ± 200 kg/m³
 conforming to EN 13238.
 Sampling procedure : By contractor.
 Description of cleaning used : None.
 Fixing method : None, sample is tested loose laid on the substrate.

Test specimen	Flame spread (cm)	CRF (kW/m ²)	Peak light attenuation (%)	Smoke production (%.min)
1	31.0	7.5	3.1	12
2	38.0	6.0	3.0	9
3	39.0	5.7	1.5	7
Mean	36.0	6.4	2.5	9

Note: according the manufacturers declaration there is no production direction applicable, therefore three samples are sufficient for classification.

Specimen 1, 2, and 3: No flashing, transitory- or sustained flaming are observed.

Specimen 1, 2, and 3: Extinguished manually after the end of the test duration

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CONCLUSION

According to EN 13501-1:2007+ A1:2009 the tested sample of the aforementioned quality “**Jumpax Prefab, Jumpax Nature with 4 mm CocoFloor**”, in relation to its reaction to fire behaviour is classified: **C_{fl}**.

The additional classification in relation to smoke production is: **s1**.

The aforementioned quality meets the requirement of reaction to fire classification:
C_{fl} – s1

The classification is valid for the following end use applications:

- End use substrates of classes A1 and A2-s1,d0.
- Any way of fixation, glued down or loose laid.

Statements:

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.

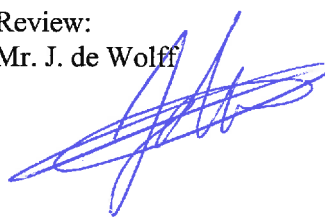
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Author:
Mr. M.A. van de Vlekkert



Review:
Mr. J. de Wolff



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(End of report)

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APPENDIX I: Flooring Radiant Panel Single Specimen Report

Report produced with the Fire Testing Technology FRPSol software

page 1

Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : 89210247 Unifloor
Date of test : Jan. 09 2017

Specimen description : MT16-117021.16 Jumpax Prefab / Jumpax Nature
Test name : # sample 1
File name : D:\FRPFILES\17010030.CSV
Test number in series : 3

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX16016.CSV

Thickness (mm) : 30.8
Density (kg/m³) : 514

Test duration : 30 minutes (1800 s)
Substrate used? : Yes
Substrate : Calcium silicate
Fixing method : None (loose laid)
Conditioned? : Yes
Conditioning temp. (°C) : 23
Conditioning RH (%) : 50

Test Results

Time to ignition : 2 minutes 04 seconds (124 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 310
Critical flux at extinguishment (kW/m²) : 7.49
HF-10 (kW/m²) : 10.10
HF-20 (kW/m²) : 7.86
HF-30 (kW/m²) : 7.49
Flame spread at 10 minutes (mm) : 150
Flame spread at 20 minutes (mm) : 290
Flame spread at 30 minutes (mm) : 310
Peak light attenuation (%) : 3.06
Time to peak light attenuation : 29 minutes 57 seconds (1797 s)
Total integrated smoke (%.min) : 12.32

Potential classification : C(f)
Smoke production classification : s1

These results relate only to the behaviour of the specimens of the product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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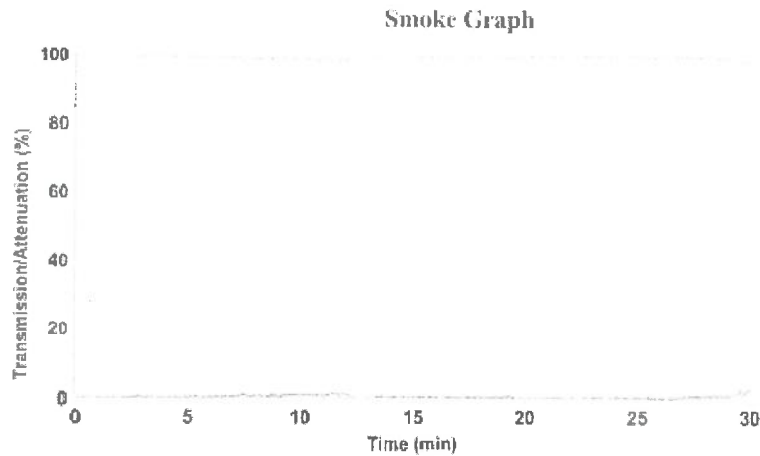
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Test name : # sample 1
File name : D:\FRPFILES\17010030.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsh (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsh (MJ/m ²)
60	320	11.1	3.544	510	-	3.7	-
110	486	10.5	5.095	560	-	3.1	-
160	681	10.0	6.810	610	-	2.6	-
210	830	9.4	7.800	660	-	2.2	-
260	1030	8.4	8.663	710	-	1.9	-
310	1359	7.5	10.172	760	-	1.6	-
360	-	6.4	-	810	-	1.4	-
410	-	5.3	-	860	-	1.2	-
460	-	4.4	-	910	-	1.1	-

Comments

Specimen was extinguished manually after end of test.

These results relate only to the behaviour of the specimens of the product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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Report produced with the Fire Testing Technology FRPSof6 software

page 1

Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : 89210247 Unifloor
Date of test : Jan. 09 2017

Specimen description : MT16-117021.16 Jumpax Prefab / Jumpax Nature
Test name : # sample 2
File name : D:\FRPFILES\17010031.CSV
Test number in series : 3

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX16016.CSV

Thickness (mm) : 30.8
Density (kg/m³) : 514

Test duration : 30 minutes (1800 s)
Substrate used? : Yes
Substrate : Calcium silicate
Fixing method : None (loose laid)
Conditioned? : Yes
Conditioning temp. (°C) : 23
Conditioning RH (%) : 50

Test Results

Time to ignition : 2 minutes 04 seconds (124 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 380
Critical flux at extinguishment (kW/m²) : 5.95
HF-10 (kW/m²) : 10.10
HF-20 (kW/m²) : 7.49
HF-30 (kW/m²) : 5.95
Flame spread at 10 minutes (mm) : 150
Flame spread at 20 minutes (mm) : 310
Flame spread at 30 minutes (mm) : 380
Peak light attenuation (%) : 2.99
Time to peak light attenuation : 28 minutes 15 seconds (1695 s)
Total integrated smoke (%.min) : 8.78

Potential classification : C (fl)
Smoke production classification : s1

These results relate only to the behaviour of the specimens of the product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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Report produced with the Fire Testing Technology FRPfall software

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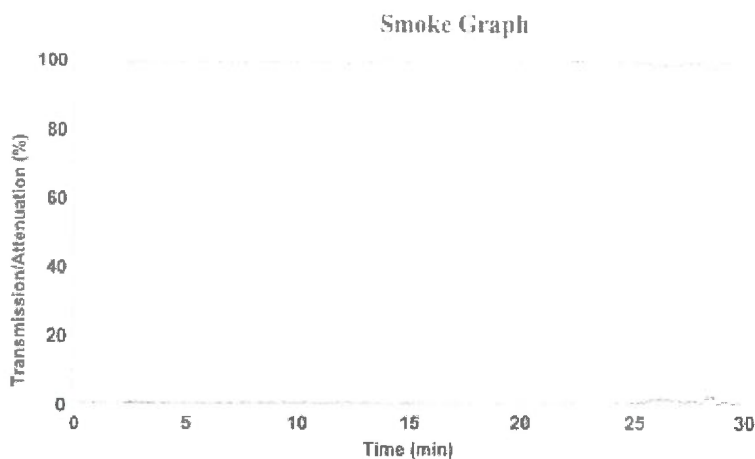
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Test name : # sample 2
File name : D:\FRPFILES\17010031.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)	Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)
60	343	11.1	3.799	510	-	3.7	-
110	458	10.5	4.801	560	-	3.1	-
160	677	10.0	6.770	610	-	2.6	-
210	834	9.4	7.838	660	-	2.2	-
260	1065	8.4	8.958	710	-	1.9	-
310	1203	7.5	9.004	760	-	1.6	-
360	1669	6.4	10.027	810	-	1.4	-
410	-	5.3	-	860	-	1.2	-
460	-	4.4	-	910	-	1.1	-

Comments

Specimen was extinguished manually after end of test.

These results relate only to the behaviour of the specimens of the product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : 89210247 Unifloor
Date of test : Jan. 11 2017

Specimen description : MF16-117021.16 Jumpax Prefab / Jumpax Nature
Test name : # sample 3
File name : D:\FRPFILES\17010032.CSV
Test number in series : 3

Flux calibration file name : C:\FRP\SOFT2.9A\CALIB\FLX16016.CSV

Thickness (mm) : 30.8
Density (kg/m³) : 514

Test duration : 30 minutes (1800 s)
Substrate used? : Yes
Substrate : Calcium silicate
Fixing method : None (loose laid)
Conditioned? : Yes
Conditioning temp. (°C) : 23
Conditioning RH (%) : 50

Test Results

Time to ignition : 2 minutes 03 seconds (123 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 390
Critical flux at extinguishment (kW/m²) : 5.74
HF-10 (kW/m²) : 10.39
HF-20 (kW/m²) : 7.86
HF-30 (kW/m²) : 5.74
Flame spread at 10 minutes (mm) : 120
Flame spread at 20 minutes (mm) : 290
Flame spread at 30 minutes (mm) : 390
Peak light attenuation (%) : 1.46
Time to peak light attenuation : 12 minutes 05 seconds (725 s)
Total integrated smoke (%.min) : 6.91
Potential classification : C(fl)
Smoke production classification : s1

These results relate only to the behaviour of the specimens of the product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use

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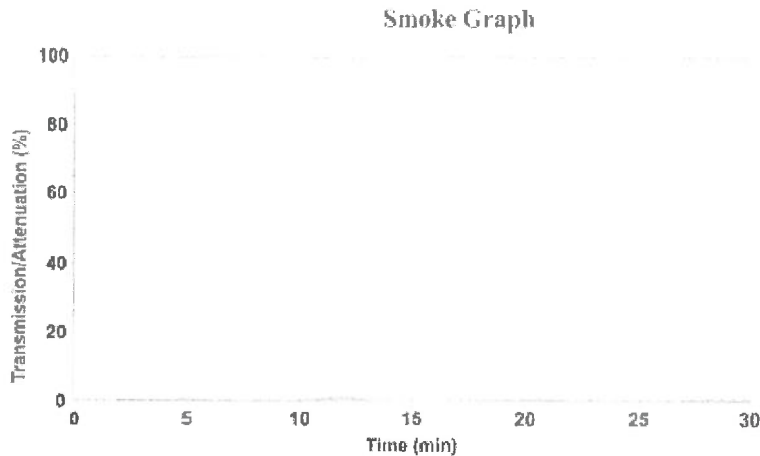
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Test name : #sample 3
File name : D:\FRPFILES\17010032.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	343	11.1	3.799	510	-	3.7	-
110	512	10.5	5.367	560	-	3.1	-
160	720	10.0	7.200	610	-	2.6	-
210	901	9.4	8.468	660	-	2.2	-
260	1063	8.4	8.941	710	-	1.9	-
310	1353	7.5	10.127	760	-	1.6	-
360	1542	6.4	9.818	810	-	1.4	-
410	-	5.3	-	860	-	1.2	-
460	-	4.4	-	910	-	1.1	-

Comments

Specimen was extinguished manually after end of test.

These results relate only to the behaviour of the specimens of the product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use