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Report

Project number: 89208416
Report number: 89208416.01br

Date
06/08/2015

Received:
A underlay system , marked as: “**Jumpax HD Nature**”;
TÜV-reference: MT15-71874.01

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89208416

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

Phone number client
+31 (0) 570 855 533

The samples have been received on 27/07/2015.

Fax number client
+31 (0) 570 855 544

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

Article
Jumpax HD Nature

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

Appendix
I : Flooring Radiant Panel Single
Specimen Report – 8 pages

Results:
See page three and four.

Appendix:
See page five up to and including twelve.

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 HD Nature *
Total thickness (mm) : 14 *
Measurement (mm x mm) : 600 x 1200 *
Total mass per unit area (kg/m²) : 8 *
Density (kg/m³) : 710 MDF & 260 softboard *
Raw Material : 2x 4 mm MDF & 6 mm softboard*
** Applicant's declaration*

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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 : 05/08/2015
 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:	Length			Width		
Total burning time ¹	15	15	15	15	15	15
Flame tip reaches 150 mm (s)	No	No	No	No	No	No
Extent of damaged area, length (mm)	61	62	61	64	64	64
Extent of damaged area, width (mm)	13	12	12	12	12	12
Material melts (yes/no)	No	No	No	No	No	No
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

² Shrinks away from flame without being ignited

³ The time at which it occurs and its duration

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

Date of testing : 04/08/2015
 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, orientation	Flame spread (cm)	CRF (kW/m ²)	Peak light attenuation (%)	Smoke production (%.min)
1, Length	52.0	3.4	8.8	72
2, Width	52.0	3.4	9.2	88
3, Width	52.0	3.3	34.8	137
4, Width	53.0	3.2	21.0	114
Mean, Width	52.3	3.3	21.7	113

Specimen 1, 2, 3 and 4: No flashing, transitory- or sustained flaming are observed.

Specimen 1, 2, 3 and 4: 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 HD Nature**", in relation to its reaction to fire behaviour is classified: **D_n**.

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

The aforementioned quality meets the requirement of reaction to fire classification:
D_n – s1

The classification is valid for the following end use applications:

- End use substrates of classes A1 and A2-s1,d0 , for example fibre cement board.
- 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.

The validity of this report will expire directly after alterations or modifications of the examined product (combination)(s) and/or the criteria. This report shall not be reproduced, except in full, without the written approval of the testing laboratory.

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

Author:

Mr. J. de Wolff



Review:

Mr. R. Boerboom



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APPENDIX I: Flooring Radiant Panel Single Specimen Report

Report produced with the Fire Testing Technology FRPSoft software

Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2002
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : Unifloor 89208416 TLC
Date of test : Aug. 04 2015

Specimen description : Jumpax HD Nature MT15-71874.01
Test name : Prod #1
File name : D:\FRPFILES\15080001.CSV
Test number in series : 4

Flux calibration file name : C:\FRPSOFT\CALIB\FLX15008.CSV

Thickness (mm) :
Density (kg/m³) :

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

Test Results

Time to ignition : 2 minutes 01 seconds (121 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 520
Critical flux at extinguishment (kW/m²) : 3.4
HF-10 (kW/m²) : 9.05
HF-20 (kW/m²) : 4.9
HF-30 (kW/m²) : 3.4
Flame spread at 10 minutes (mm) : 200
Flame spread at 20 minutes (mm) : 420
Flame spread at 30 minutes (mm) : 520
Peak light attenuation (%) : 8.77
Time to peak light attenuation : 13 minutes 49 seconds (829 s)
Total integrated smoke (%.min) : 71.75

Potential classification : **D(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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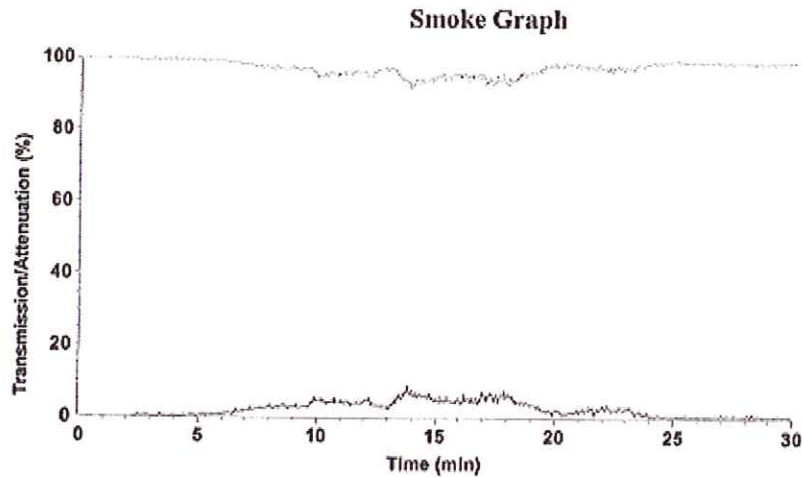
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Test name : Prod #1
File name : D:\FRPFILES\15080001.CSV

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	287	11.6	3.051	510	1738	3.5	5.118
110	421	10.6	4.128	560	-	2.9	-
160	510	9.8	4.517	610	-	2.5	-
210	606	8.9	4.786	660	0	2.1	0.000
260	735	7.9	5.144	710	-	1.8	-
310	851	7.0	5.102	760	-	1.6	-
360	992	6.0	5.030	810	-	1.4	-
410	1187	5.1	5.010	860	-	1.2	-
460	1430	4.2	5.021	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 9239-1:2002
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : Unifloor 89208416 TLC
Date of test : Aug. 04 2015

Specimen description : Jumpax HD Nature MT15-71874.01
Test name : Cross #2
File name : D:\FRPFILES\15080002.CSV
Test number in series : 4

Flux calibration file name : CAFRPSOFT\CALIB\FLX15008.CSV

Thickness (mm) :
Density (kg/m³) :

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

Test Results

Time to ignition : 2 minutes 01 seconds (121 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 520
Critical flux at extinguishment (kW/m²) : 3.4
HF-10 (kW/m²) : 9.05
HF-20 (kW/m²) : 4.9
HF-30 (kW/m²) : 3.4
Flame spread at 10 minutes (mm) : 200
Flame spread at 20 minutes (mm) : 420
Flame spread at 30 minutes (mm) : 520
Peak light attenuation (%) : 9.18
Time to peak light attenuation : 22 minutes 47 seconds (1367 s)
Total integrated smoke (%.min) : 87.51

Potential classification : D(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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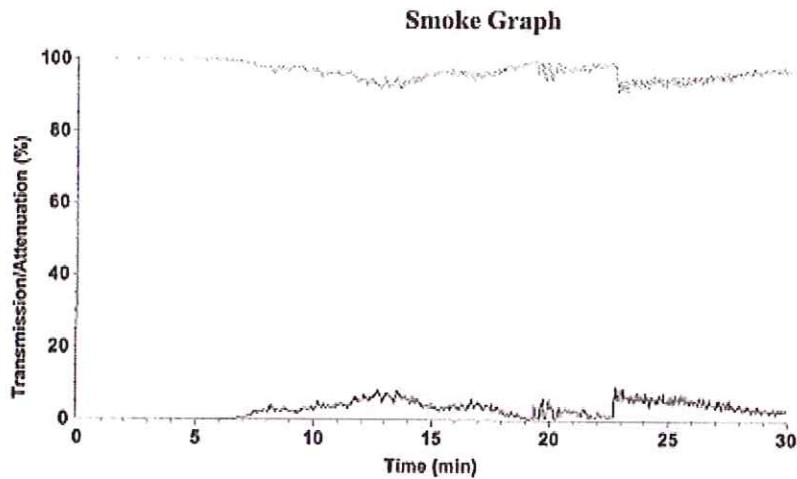
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Test name : Cross #2
File name : D:\FRPFILES\15080002.CSV

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	284	11.6	3.019	510	1706	3.5	5.024
110	408	10.6	4.000	560	-	2.9	-
160	530	9.8	4.694	610	-	2.5	-
210	606	8.9	4.786	660	-	2.1	-
260	711	7.9	4.976	710	-	1.8	-
310	825	7.0	4.946	760	-	1.6	-
360	973	6.0	4.934	810	-	1.4	-
410	1142	5.1	4.820	860	-	1.2	-
460	1386	4.2	4.866	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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Standard : EN ISO 9239-1:2002
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : Unifloor 89208416 TLC
Date of test : Aug. 04 2015

Specimen description : Jumpax HD Nature MT15-71874.01
Test name : Cross #3
File name : D:\FRPFILES\15080005.CSV
Test number in series : 4

Flux calibration file name : C:\FRPSOFT\CALIB\FLX15009.CSV

Thickness (mm) :
Density (kg/m³) :

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

Test Results

Time to ignition : 3 minutes 45 seconds (225 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 520
Critical flux at extinguishment (kW/m²) : 3.34
HF-10 (kW/m²) : 8.99
HF-20 (kW/m²) : 4.86
HF-30 (kW/m²) : 3.34
Flame spread at 10 minutes (mm) : 200
Flame spread at 20 minutes (mm) : 420
Flame spread at 30 minutes (mm) : 520
Peak light attenuation (%) : 34.75
Time to peak light attenuation : 23 minutes 43 seconds (1423 s)
Total integrated smoke (%.min) : 136.56
Potential classification : D(0)
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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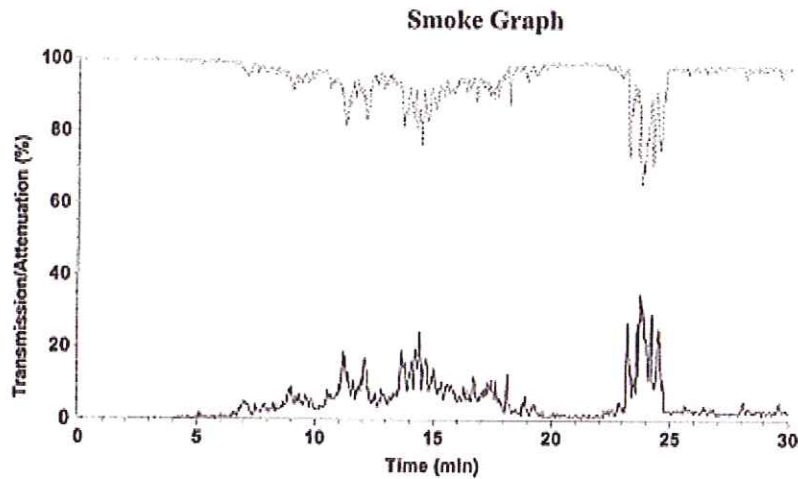
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Test name : Cross #3
File name : D:\FRPFILES\15080005.CSV

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	332	11.5	3.506	510	1707	3.5	4.916
110	423	10.6	4.121	560	-	2.9	-
160	526	9.7	4.631	610	-	2.4	-
210	615	8.8	4.817	660	-	2.1	-
260	749	7.8	5.183	710	-	1.8	-
310	868	6.9	5.152	760	-	1.5	-
360	989	5.9	4.978	810	-	1.3	-
410	1172	5.0	4.891	860	-	1.2	-
460	1408	4.2	4.862	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 9239-1:2002
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : Unifloor 89208416 TLC
Date of test : Aug. 04 2015

Specimen description : Jumpax HD Nature MT15-71874.01
Test name : Cross #4
File name : D:\FRPFILES\15080006.CSV
Test number in series : 4

Flux calibration file name : C:\FRPSOFT\CALIB\FLX15009.CSV

Thickness (mm) :
Density (kg/m³) :

Test duration : 30 minutes (1800 s)
Substrate used? : Yes
Substrate : Calcium silicate
Fixing method : none
Conditioned? : No
Conditioning temp. (°C) : N/A
Conditioning RH (%) : N/A

Test Results

Time to ignition : 2 minutes 01 seconds (121 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 530
Critical flux at extinguishment (kW/m²) : 3.22
HF-10 (kW/m²) : 8.61
HF-20 (kW/m²) : 4.86
HF-30 (kW/m²) : 3.22
Flame spread at 10 minutes (mm) : 220
Flame spread at 20 minutes (mm) : 420
Flame spread at 30 minutes (mm) : 530
Peak light attenuation (%) : 20.95
Time to peak light attenuation : 28 minutes 48 seconds (1728 s)
Total integrated smoke (%.min) : 114.19

Potential classification : **D(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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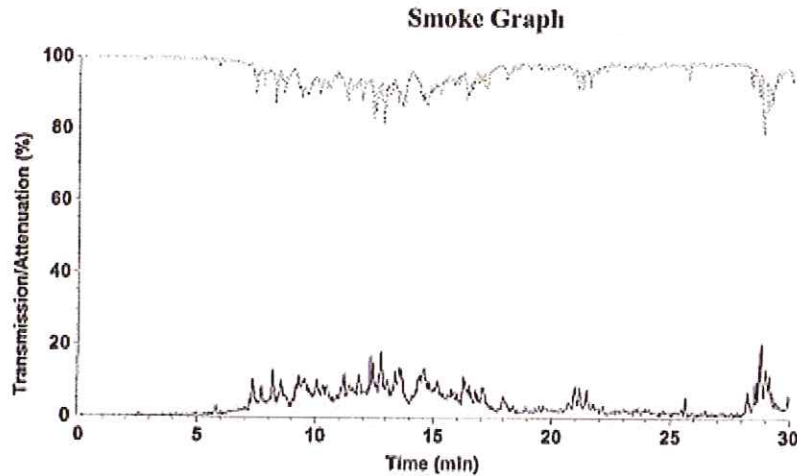
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Test name : Cross #4
File name : D:\FRPFILES\15080006.CSV

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	280	11.5	2.957	510	1604	3.5	4.620
110	401	10.6	3.907	560	-	2.9	-
160	474	9.7	4.174	610	-	2.4	-
210	562	8.8	4.402	660	-	2.1	-
260	674	7.8	4.664	710	-	1.8	-
310	772	6.9	4.583	760	-	1.5	-
360	929	5.9	4.676	810	-	1.3	-
410	1097	5.0	4.578	860	-	1.2	-
460	1334	4.2	4.606	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.

(end of the report)