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Unifloor Underlay Systems  
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## Testreport

**Project number:** 89210247  
**Report number:** 89210247.03br

**Date**  
03/02/2017

**Project number**  
89210247

### **Received:**

A floor covering combination (underlay system, glue and floorcovering), marked as:  
“**Jumpax Heat Traditional, Jumpax Basic (MDF) with 1.2 mm Heatfoil**”;  
TÜV-reference: MT16-117021.18

**Report number**  
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**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 Heat Traditional,  
Jumpax Basic (MDF) with 1.2  
mm Heatfoil

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 Heat Traditional, Jumpax Basic (MDF) with 1.2 mm Heatfoil\*  
Tested in combination with : 2 mm LVT\*  
Production direction : No production direction applicable\*  
Total thickness (mm) : 11.1\*\*  
Total mass (gr/m<sup>2</sup>) : 9113\*\*  
Density (kg/m<sup>3</sup>) : 824\*\*

\* Applicant's declaration

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

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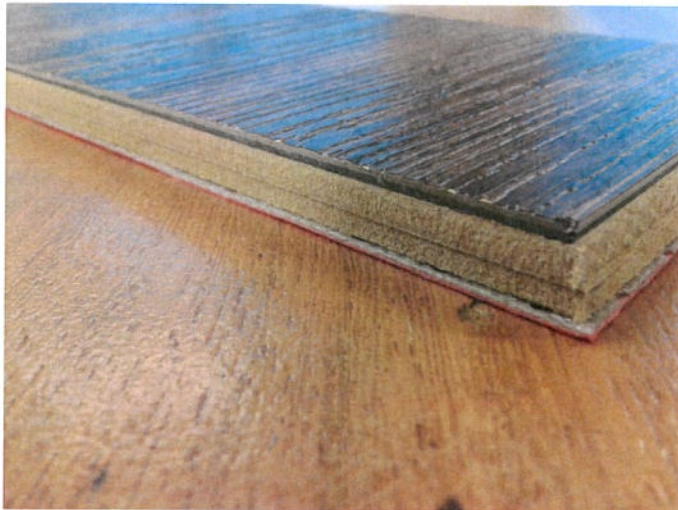


Figure 1, Picture of the received sample

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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 :  $\geq 7$  days,  $23 \pm 2$  °C and  $50 \pm 5$  %  
 Description of substrate : Fibre cement board,  $8 \pm 2$  mm,  $1800 \pm 200$  kg/m<sup>3</sup>  
 conforming to EN 13238.  
 Flame application : Surface.  
 Flame application time : 15 seconds.

Orientation:			
Total burning time <sup>1</sup>	15	15	15
Flame tip reaches 150 mm (s)	No	No	No
Extent of damaged area, length (mm)	15	15	15
Extent of damaged area, width (mm)	10	10	10
Material melts (yes/no)	Yes	Yes	Yes
Shrinks away <sup>2</sup> (yes/no)	No	No	No
Glowing <sup>3</sup> (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  
 Conditioning time, climate :  $\geq 7$  days,  $23 \pm 2$  °C and  $50 \pm 5$  %  
 Description of substrate : Fibre cement board,  $8 \pm 2$  mm,  $1800 \pm 200$  kg/m<sup>3</sup>  
 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 <sup>2</sup> )	Peak light attenuation (%)	Smoke production (%.min)
1	13.0	10.3	43.3	109
2	11.0	10.5	47.4	117
3	11.0	10.5	38.9	106
<b>Mean</b>	<b>11.7</b>	<b>10.4</b>	<b>43.2</b>	<b>111</b>

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

Specimen 1, 2, and 3: Flashing, transitory- or sustained flaming are observed.

Specimen 1, 2, and 3: Extinguished naturally before the end of the test duration

## CONCLUSION

According to EN 13501-1:2007+ A1:2009 the tested sample of the aforementioned quality “**Jumpax Heat Traditional, Jumpax Basic (MDF) with 1.2 mm Heatfoil**”, in relation to its reaction to fire behaviour is classified: **B<sub>n</sub>**.  
The additional classification in relation to smoke production is: **s1**.

The aforementioned quality meets the requirement of reaction to fire classification:  
**B<sub>n</sub> – s1**

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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.

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. 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 FRPSoft 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 : MT16-117021.18 Jumpax Heat Traditional / Jumpax Basic (MDF)  
Test name : # sample 1  
File name : D:\FRPFILES\17010027.CSV  
Test number in series : 3

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

Thickness (mm) : 11.1  
Density (kg/m<sup>3</sup>) : 824

Test duration : 12 minutes 40 seconds (760 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 : 12 minutes 39 seconds (759 s)  
Extent of burning (mm) : 130  
Critical flux at extinguishment (kW/m<sup>2</sup>) : 10.29  
HF-10 (kW/m<sup>2</sup>) : 10.29  
HF-20 (kW/m<sup>2</sup>) : Not calculated (test duration < 20 minutes)  
HF-30 (kW/m<sup>2</sup>) : Not calculated (test duration < 30 minutes)  
Flame spread at 10 minutes (mm) : 130  
Flame spread at 20 minutes (mm) : Not measured  
Flame spread at 30 minutes (mm) : Not measured  
Peak light attenuation (%) : 43.26  
Time to peak light attenuation : 3 minutes 10 seconds (190 s)  
Total integrated smoke (%.mm) : 108.88

**Potential classification** : A2(0)/B(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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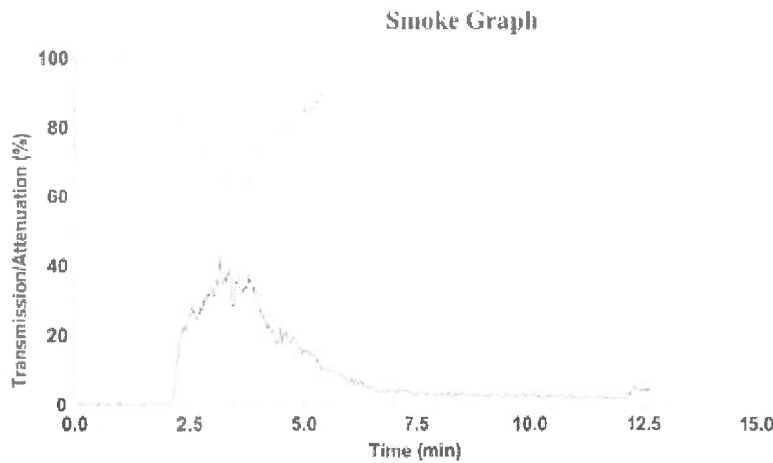
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Test name : # sample 1  
File name : D:\FRPFILES\17010027.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsb (MJ/m <sup>2</sup> )
60	222	11.1	2.459	510	-	3.7	-
110	298	10.5	3.124	560	-	3.1	-
160	-	10.0	-	610	-	2.6	-
210	-	9.4	-	660	-	2.2	-
260	-	8.4	-	710	-	1.9	-
310	-	7.5	-	760	-	1.6	-
360	-	6.4	-	810	-	1.4	-
410	-	5.3	-	860	-	1.2	-
460	-	4.4	-	910	-	1.1	-

### Comments

Specimen extinguished naturally.

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. 09 2017

Specimen description : MT16-117021.18 Jumpax Heat Traditional / Jumpax Basic (MDF)  
Test name : # sample 2  
File name : D:\FRPFILES\17010028.CSV  
Test number in series : 3

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

Thickness (mm) : 11.1  
Density (kg/m<sup>3</sup>) : 824

Test duration : 12 minutes 42 seconds (762 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 : 12 minutes 40 seconds (760 s)  
Extent of burning (mm) : 110  
Critical flux at extinguishment (kW/m<sup>2</sup>) : 10.48  
HF-10 (kW/m<sup>2</sup>) : 10.48  
HF-20 (kW/m<sup>2</sup>) : Not calculated (test duration < 20 minutes)  
HF-30 (kW/m<sup>2</sup>) : Not calculated (test duration < 30 minutes)  
Flame spread at 10 minutes (mm) : 110  
Flame spread at 20 minutes (mm) : Not measured  
Flame spread at 30 minutes (mm) : Not measured  
Peak light attenuation (%) : 47.43  
Time to peak light attenuation : 3 minutes 36 seconds (216 s)  
Total integrated smoke (%.min) : 117.38

**Potential classification** : A2(f)/B(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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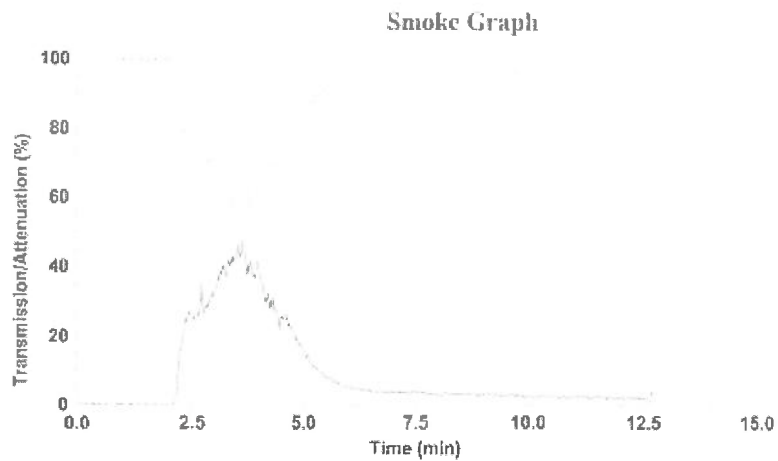
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Test name : # sample 2  
File name : D:\FRPFILES\17010028.CSV

### Rake Results

Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsh (MJ/m <sup>2</sup> )	Position (mm)	Time (s)	Flux (kW/m <sup>2</sup> )	Qsh (MJ/m <sup>2</sup> )
60	194	11.1	2.149	510	-	3.7	-
110	250	10.5	2.621	560	-	3.1	-
160	-	10.0	-	610	-	2.6	-
210	-	9.4	-	660	-	2.2	-
260	-	8.4	-	710	-	1.9	-
310	-	7.5	-	760	-	1.6	-
360	-	6.4	-	810	-	1.4	-
410	-	5.3	-	860	-	1.2	-
460	-	4.4	-	910	-	1.1	-

### Comments

Specimen extinguished naturally.

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. 09 2017  
  
**Specimen description (MDF)** : MT16-117021.18 Jumpax Heat Traditional / Jumpax Basic  
**Test name** : # sample 3  
**File name** : D:\FRPFILES\17010029.CSV  
**Test number in series** : 3  
  
**Flux calibration file name** : C:\FRPSOFT2.9A\CALIB\FLX16016.CSV  
  
**Thickness (mm)** : 11.1  
**Density (kg/m<sup>3</sup>)** : 824  
  
**Test duration** : 13 minutes 09 seconds (789 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** : 13 minutes (780 s)  
**Extent of burning (mm)** : 110  
**Critical flux at extinguishment (kW/m<sup>2</sup>)** : 10.48  
**HF-10 (kW/m<sup>2</sup>)** : 10.48  
**HF-20 (kW/m<sup>2</sup>)** : Not calculated (test duration < 20 minutes)  
**HF-30 (kW/m<sup>2</sup>)** : Not calculated (test duration < 30 minutes)  
**Flame spread at 10 minutes (mm)** : 110  
**Flame spread at 20 minutes (mm)** : Not measured  
**Flame spread at 30 minutes (mm)** : Not measured  
**Peak light attenuation (%)** : 38.94  
**Time to peak light attenuation** : 3 minutes 31 seconds (211 s)  
**Total integrated smoke (%.min)** : 105.89  
  
**Potential classification** : A2(II)/B(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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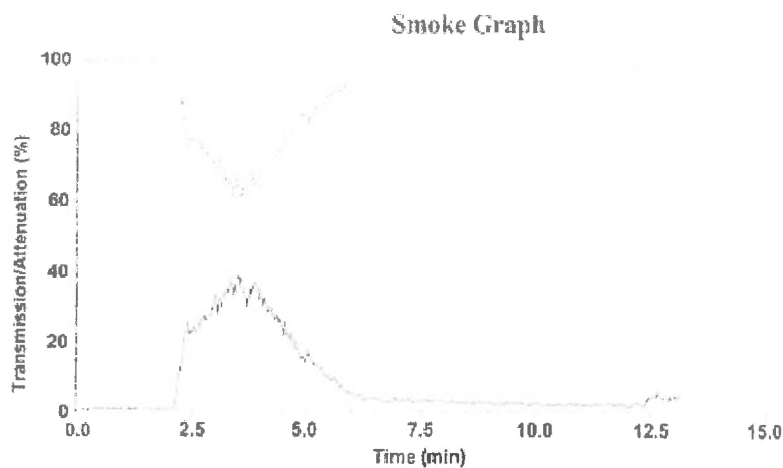
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Test name : #sample 3  
File name : D:\FRPFILES\17010029.CSV

**Rake Results**

Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)	Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)
60	212	11.1	2.348	510	-	3.7	-
110	279	10.5	2.925	560	-	3.1	-
160	-	10.0	-	610	-	2.6	-
210	-	9.4	-	660	-	2.2	-
260	-	8.4	-	710	-	1.9	-
310	-	7.5	-	760	-	1.6	-
360	-	6.4	-	810	-	1.4	-
410	-	5.3	-	860	-	1.2	-
460	-	4.4	-	910	-	1.1	-

Comments

Specimen extinguished naturally.

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.