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Report

Project number: 89208416
Report number: 89208416.02br

Date
06/08/2015

Received:

A underlay system glued with PVC floorcovering, marked as: **“Jumpax HD Nature with PVC floorcovering”**;
TÜV-reference: MT15-71874.02

Project number
89208416

Report number
89208416.02br

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

Fax number client
+31 (0) 570 855 544

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

Order:

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

Article
Jumpax HD Nature with PVC
floorcovering

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

Underlayment

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*

Floorcovering

Type of floorcovering : Heterogeneous poly(vinyl chloride)
Total thickness (mm) : 2 *

Adhesive

Type of glue used : Uzin KE66*

* Applicant's declaration

Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
2/12

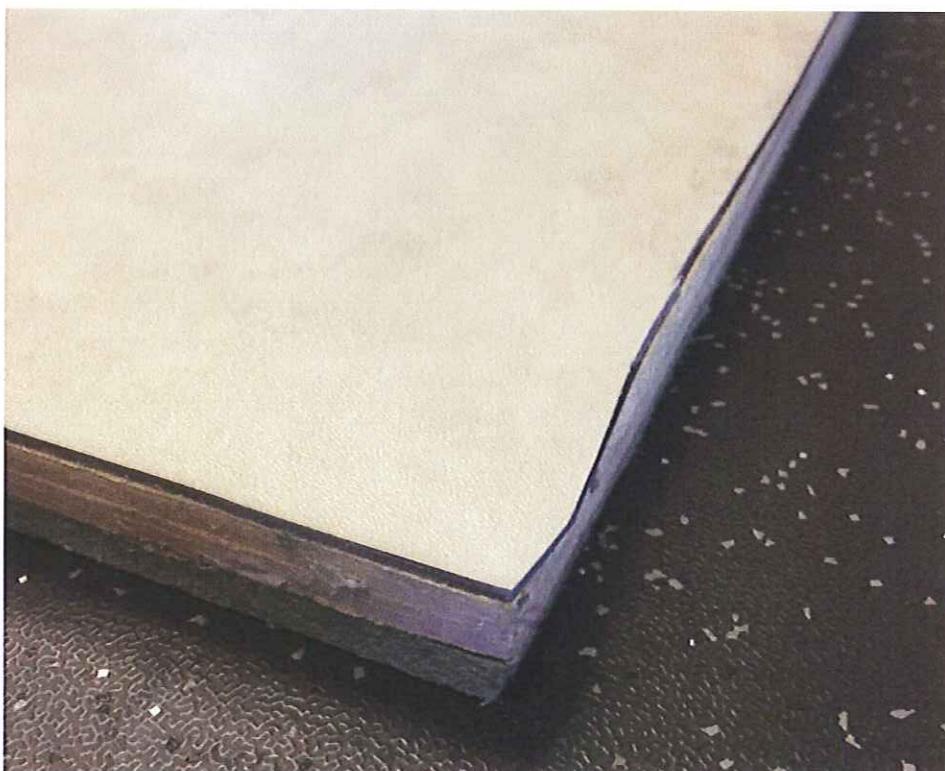


Figure 1. Picture of the received sample

Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
3/12

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)	50	50	50	54	52	54
Extent of damaged area, width (mm)	12	12	12	12	12	12
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

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 : Sample is glued on 24-7-2015 with Uzin KE66.

Test specimen, orientation	Flame spread (cm)	CRF (kW/m ²)	Peak light attenuation (%)	Smoke production (%.min)
1, Length	160	9.8	30.7	113
2, Width	140	10.1	24.3	75
3, Length	150	9.9	58.0	147
4, Length	120	10.4	34.5	92
Mean, Length	14.3	10.0	41.1	117

Specimen 1, 2, 3 and 4: Flashing and transitory flaming are observed, there is no sustained flaming are observed.

Specimen 1, 2, 3 and 4: Extinguished naturally before the end of the test duration.

Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
4/12

CONCLUSION

According to EN 13501-1:2007+ A1:2009 the tested sample of the aforementioned quality “**Jumpax HD Nature with PVC floorcovering**”, in relation to its reaction to fire behaviour is classified: **B_n**.
The additional classification in relation to smoke production is: **s1**.

The aforementioned quality meets the requirement of reaction to fire classification: B_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.
- Glued down with Uzin KE66

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 + PVC MT15-71874.02
Test name : Prod #1
File name : D:\FRPFILES\15080003.CSV
Test number in series : 4

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

Thickness (mm) :
Density (kg/m³) :

Test duration : 12 minutes 21 seconds (741 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 02 seconds (122 s)
Time to flameout : 12 minutes 19 seconds (739 s)
Extent of burning (mm) : 160
Critical flux at extinguishment (kW/m²) : 9.81
HF-10 (kW/m²) : 9.81
HF-20 (kW/m²) : ≥ 10.9
HF-30 (kW/m²) : ≥ 10.9
Flame spread at 10 minutes (mm) : 160
Flame spread at 20 minutes (mm) : -1
Flame spread at 30 minutes (mm) : -1
Peak light attenuation (%) : 30.73
Time to peak light attenuation : 3 minutes 33 seconds (213 s)
Total integrated smoke (%.min) : 112.66

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.

Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
5/12

APPENDIX I: Flooring Radiant Panel Single Specimen Report

Report produced with the Fire Testing Technology FRPSoft software

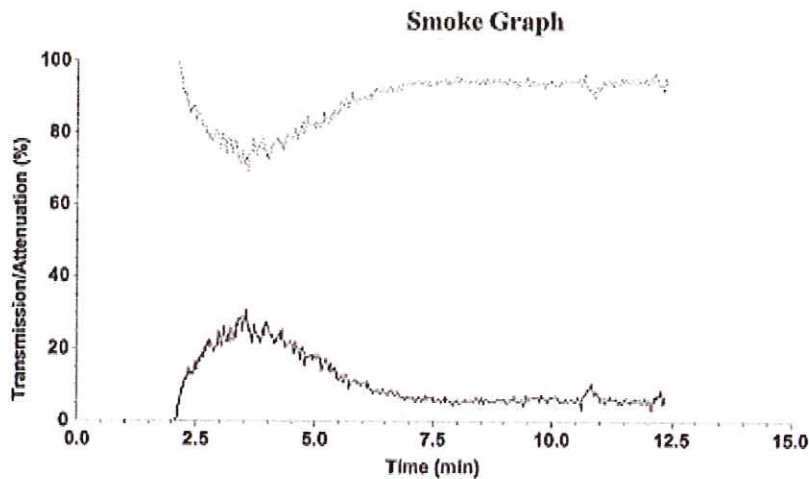
Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
6/12



Test name : Prod #1
File name : D:\FRPFILES\15080003.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	174	11.6	1.850	510	-	3.5	-
110	250	10.6	2.451	560	-	2.9	-
160	312	9.8	2.763	610	-	2.5	-
210	-	8.9	-	660	-	2.1	-
260	-	7.9	-	710	-	1.8	-
310	-	7.0	-	760	-	1.6	-
360	-	6.0	-	810	-	1.4	-
410	-	5.1	-	860	-	1.2	-
460	-	4.2	-	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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Report produced with the Fire Testing Technology FRPSoft software

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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 +PVC
Test name : #3 Prod
File name : D:\FRPFILES\15080007.CSV
Test number in series : 4

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

Thickness (mm) :
Density (kg/m³) :

Test duration : 12 minutes 31 seconds (751 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 : 12 minutes 30 seconds (750 s)
Extent of burning (mm) : 150
Critical flux at extinguishment (kW/m²) : 9.91
HF-10 (kW/m²) : 9.91
HF-20 (kW/m²) : >= 10.9
HF-30 (kW/m²) : >= 10.9
Flame spread at 10 minutes (mm) : 150
Flame spread at 20 minutes (mm) : -1
Flame spread at 30 minutes (mm) : -1
Peak light attenuation (%) : 57.99
Time to peak light attenuation : 4 minutes 40 seconds (280 s)
Total integrated smoke (%.min) : 147.27

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.

Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
7/12

APPENDIX I: Flooring Radiant Panel Single Specimen Report

Report produced with the Fire Testing Technology FRPSoft software

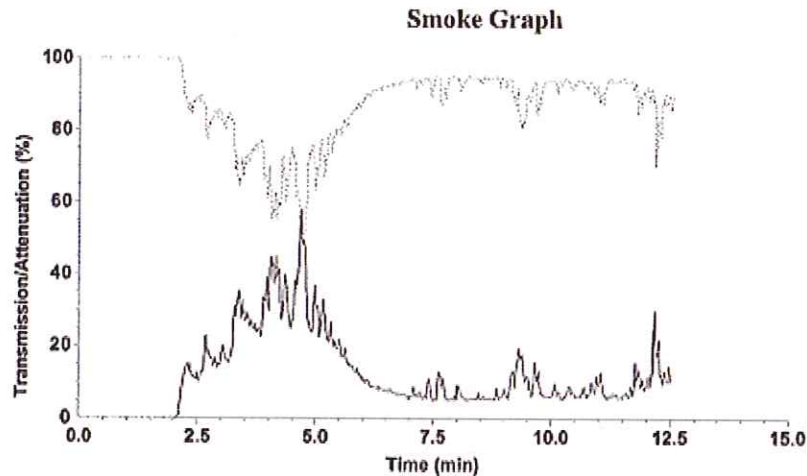
Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
8/12



Test name : #3 Prod
File name : D:\FRPFILES\15080007.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	197	11.5	2.080	510	-	3.5	-
110	265	10.6	2.582	560	-	2.9	-
160	-	9.7	-	610	-	2.4	-
210	-	8.8	-	660	-	2.1	-
260	-	7.8	-	710	-	1.8	-
310	-	6.9	-	760	-	1.5	-
360	-	5.9	-	810	-	1.3	-
410	-	5.0	-	860	-	1.2	-
460	-	4.2	-	910	-	1.1	-

Comments

Specimen extinguished naturally.

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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 +PVC MT15-71874.02
Test name : #4 Prod
File name : D:\FRPFILES\15080008.CSV
Test number in series : 4

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

Thickness (mm) :
Density (kg/m³) :

Test duration : 12 minutes 07 seconds (727 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 : 12 minutes 05 seconds (725 s)
Extent of burning (mm) : 120
Critical flux at extinguishment (kW/m²) : 10.4
HF-10 (kW/m²) : 10.4
HF-20 (kW/m²) : ≥ 10.9
HF-30 (kW/m²) : ≥ 10.9
Flame spread at 10 minutes (mm) : 120
Flame spread at 20 minutes (mm) : -1
Flame spread at 30 minutes (mm) : -1
Peak light attenuation (%) : 34.54
Time to peak light attenuation : 4 minutes 47 seconds (287 s)
Total integrated smoke (%.min) : 91.58

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.

Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
9/12

APPENDIX I: Flooring Radiant Panel Single Specimen Report

Report produced with the Fire Testing Technology FRPSoft software

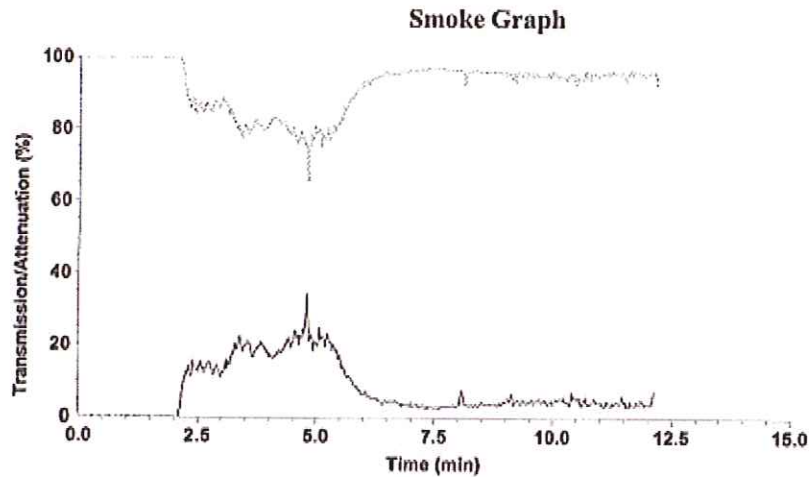
Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
10/12



Test name : #4 Prod
File name : D:\FRPFILES\15080008.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	201	11.5	2.123	510	-	3.5	-
110	295	10.6	2.874	560	-	2.9	-
160	-	9.7	-	610	-	2.4	-
210	-	8.8	-	660	-	2.1	-
260	-	7.8	-	710	-	1.8	-
310	-	6.9	-	760	-	1.5	-
360	-	5.9	-	810	-	1.3	-
410	-	5.0	-	860	-	1.2	-
460	-	4.2	-	910	-	1.1	-

Comments

Specimen extinguished naturally.

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APPENDIX I: Flooring Radiant Panel Single Specimen Report

Report produced with the Fire Testing Technology FRFSoft software

Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
11/12

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+PVC MT15-71874.02
Test name : Cross #2
File name : D:\FRPFILES\15080004.CSV
Test number in series : 4

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

Thickness (mm) :
Density (kg/m³) :

Test duration : 12 minutes 07 seconds (727 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 : 12 minutes 05 seconds (725 s)
Extent of burning (mm) : 140
Critical flux at extinguishment (kW/m²) : 10.14
HF-10 (kW/m²) : 10.14
HF-20 (kW/m²) : >= 10.9
HF-30 (kW/m²) : >= 10.9
Flame spread at 10 minutes (mm) : 140
Flame spread at 20 minutes (mm) : -1
Flame spread at 30 minutes (mm) : -1
Peak light attenuation (%) : 24.27
Time to peak light attenuation : 4 minutes 22 seconds (262 s)
Total integrated smoke (%.min) : 74.48

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.

APPENDIX I: Flooring Radiant Panel Single Specimen Report

Report produced with the Fire Testing Technology FRFSof software

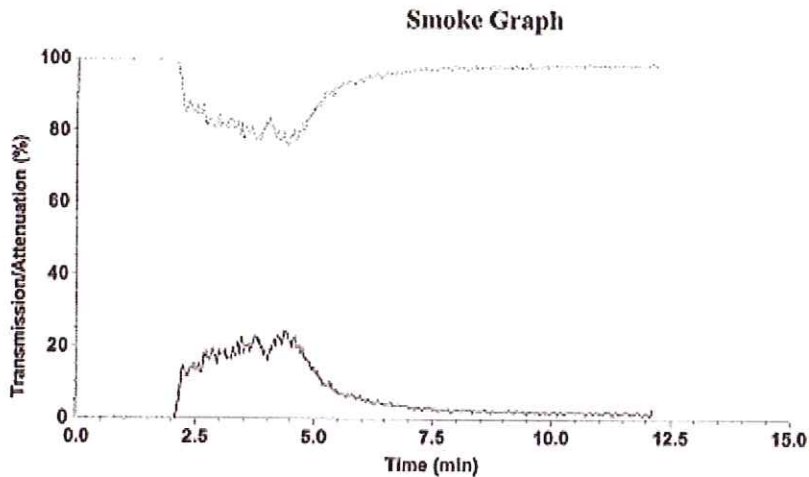
Date
06/08/2015

Project number
89208416

Report number
89208416.02br

Article
Jumpax HD Nature with PVC
floorcovering

Page
12/12



Test name : Cross #2
File name : D:\FRPFILES\15080004.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	199	11.6	2.116	510	-	3.5	-
110	275	10.6	2.696	560	-	2.9	-
160	-	9.8	-	610	-	2.5	-
210	-	8.9	-	660	-	2.1	-
260	-	7.9	-	710	-	1.8	-
310	-	7.0	-	760	-	1.6	-
360	-	6.0	-	810	-	1.4	-
410	-	5.1	-	860	-	1.2	-
460	-	4.2	-	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.

(end of the report)