

Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
Laboratory : Savonia University of Applied Sciences
Sponsor : TimberWise
Date of test : Jun. 10 2013

Specimen description : Tammiparketti vaneri
Test name : 3.5 mm pinta
File name : C:\FRPSOFT\DATA\13060002.CSV

Flux calibration file name : C:\FRPSOFT\CALIB\FLX13001.CSV

Thickness (mm) : 15
Density (kg/m³) : 640.9

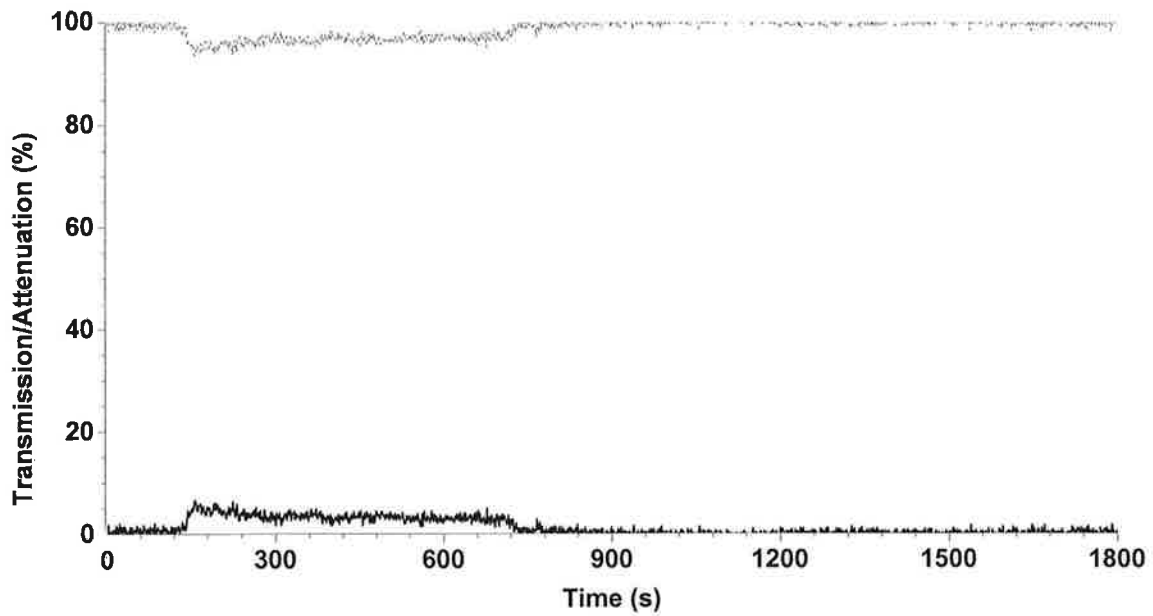
Test duration : 30 minutes (1800 s)
Substrate used? : No
Conditioned? : No
Conditioning temp. (°C) : N/A
Conditioning RH (%) : N/A

Test Results

Time to ignition : 2 minutes 25 seconds (145 s)
Time to flameout : 28 minutes 01 seconds (1681 s)
Extent of burning (mm) : 370
Critical flux at extinguishment (kW/m²) : 6.16
HF-10 (kW/m²) : 9.36
HF-20 (kW/m²) : 7.02
HF-30 (kW/m²) : 6.16
Flame spread at 10 minutes (mm) : 210
Flame spread at 20 minutes (mm) : 330
Flame spread at 30 minutes (mm) : 370
Peak light attenuation (%) : 6.59
Time to peak light attenuation : 2 minutes 36 seconds (156 s)
Total integrated smoke (%.min) : 38.9
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.

Smoke Graph



Test name : 3.5 mm pinta
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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	147	11.3	1.667	510	-	3.7	-
110	274	10.6	2.917	560	-	3.1	-
160	455	10.1	4.578	610	-	2.7	-
210	579	9.4	5.417	660	-	2.3	-
260	754	8.4	6.319	710	-	2.0	-
310	1018	7.5	7.598	760	-	1.7	-
360	1377	6.4	8.760	810	-	1.5	-
410	-	5.3	-	860	-	1.2	-
460	-	4.5	-	910	-	1.0	-

Comments

Specimen extinguished naturally.

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Tabulated Results

Time (s)	T (%)	Attenuation (%)	Time (s)	T (%)	Attenuation (%)
0	99.99	0.012			
30	98.64	1.365	1230	99.62	0.382
60	99.62	0.382	1260	99.38	0.621
90	98.76	1.244	1290	100	-0.001
120	99.08	0.916	1320	100.3	-0.323
150	95.74	4.258	1350	100.8	-0.754
180	95.26	4.744	1380	99.43	0.573
210	95.94	4.06	1410	100.8	-0.777
240	95.81	4.191	1440	99.34	0.664
270	95.81	4.195	1470	100.7	-0.683
300	98.3	1.701	1500	101.1	-1.118
330	96.18	3.819	1530	100.6	-0.604
360	96.71	3.295	1560	99.61	0.39
390	97.73	2.274	1590	99.46	0.538
420	97.27	2.734	1620	99.62	0.381
450	96.02	3.977	1650	100.3	-0.332
480	95.91	4.092	1680	100.5	-0.451
510	97.19	2.807	1710	99.87	0.135
540	97.73	2.268	1740	99.27	0.734
570	97.12	2.883	1770	99.72	0.279
600	97.36	2.636	1800	99.69	0.315
630	97.15	2.849			
660	95.85	4.15			
690	96.99	3.014			
720	97.2	2.797			
750	100.1	-0.085			
780	99.96	0.037			
810	99.7	0.298			
840	100.1	-0.127			
870	99.52	0.482			
900	99.69	0.314			
930	100.1	-0.068			
960	100.8	-0.828			
990	100.1	-0.061			
1020	100	-0.038			
1050	100.2	-0.23			
1080	100	-0.017			
1110	100.2	-0.18			
1140	101.4	-1.357			
1170	100.3	-0.325			
1200	98.91	1.091			

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