

# Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2002  
 Laboratory : TÜV Rheinland Nederland B.V.  
 Sponsor : 89202177 - SMG - Swisslon Plus - wave - ipk  
 Date of test : Aug. 06 2012

Specimen description : MT12-36133.02  
 Test name : Prod #1  
 File name : D:\FRPFILES\12080005.CSV  
 Test number in series : 4

Flux calibration file name : C:\FRPSoft\CALIB\FLX12008.CSV

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

Test duration : 15 minutes 48 seconds (948 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 : 15 minutes 46 seconds (946 s)  
 Extent of burning (mm) : 340  
 Critical flux at extinguishment (kW/m<sup>2</sup>) : 6.44  
 HF-10 (kW/m<sup>2</sup>) : 7.23  
 HF-20 (kW/m<sup>2</sup>) : >= 10,9  
 HF-30 (kW/m<sup>2</sup>) : >= 10,9  
 Flame spread at 10 minutes (mm) : 300  
 Flame spread at 20 minutes (mm) : -1  
 Flame spread at 30 minutes (mm) : -1  
 Peak light attenuation (%) : 86.51  
 Time to peak light attenuation : 6 minutes 42 seconds (402 s)  
 Total integrated smoke (%.min) : 563.5

## Potential classification

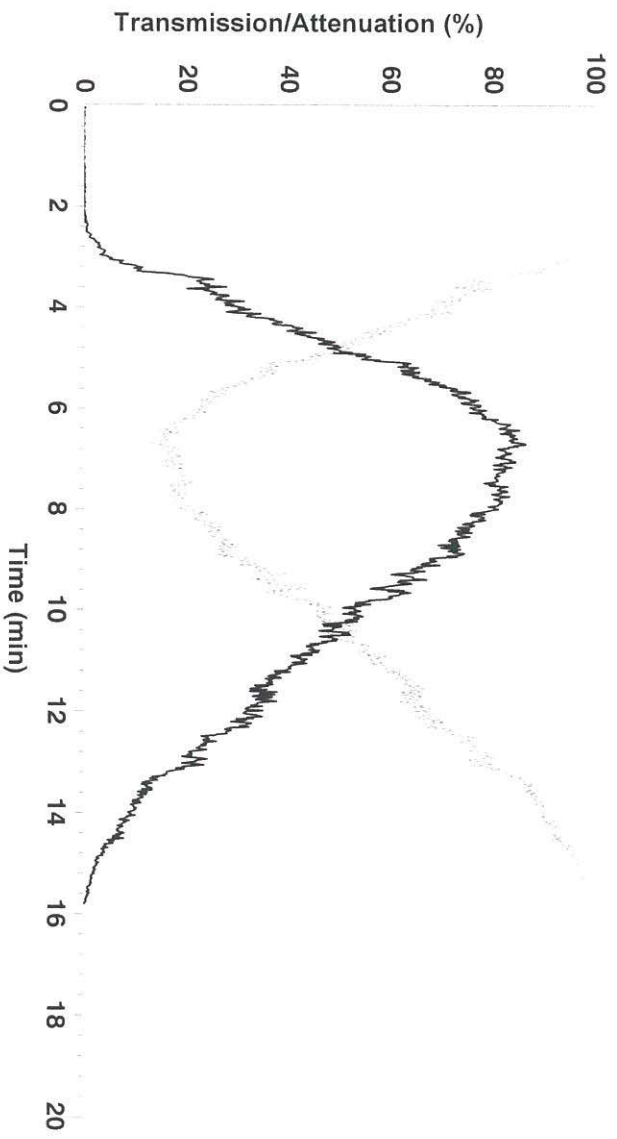
: C(FI)

## 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 : Prod #1  
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### 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	205	11.2	2.132	510	-	3.6	-
110	303	10.4	2.940	560	-	3.0	-
160	376	9.7	3.340	610	-	2.4	-
210	426	8.9	3.382	660	-	2.1	-
260	479	7.9	3.378	710	-	1.8	-
310	645	7.1	3.895	760	-	1.5	-
360	-	6.0	-	810	-	1.3	-
410	-	5.1	-	860	-	1.2	-
460	-	4.3	-	910	-	1.1	-

### Comments

Specimen extinguished naturally.

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