

# FIRE CERTIFICATE – "DESIGN" MAT Ref. 8325-8327-8305-8330-8331-8309-8323-8335-8337-8345-8355-8356-8349

Fire certificate – "Design" mat
Brandschutzbescheinigung – Eingangsmatte "Design"
Certificado de ignifugación – Felpudo "Diseño"
Brandveiligheidsattest – Entreemat "Design"
CPI – Zerbino "Design"

#### **Report**

Project number : T11-33930

Report number : T11.33930.01br

## Received:

A sample entrance mat in an aluminium frame, marked as:

## "Design / Diseño"

Mat set in an aluminium frame, 100% PA loop pile, system height: 22 mm.

TÜV sample reference: MT11.33930.01.

## Request:

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

#### Test method:

Reaction to fire (radiant panel): EN ISO 9239-1.

#### Results:

See page two.



#### **TEST RESULTS**

Radiant Panel test ISO 9239-1:2010

Date of testing : 07-11-2011

Conditioning time, climate : > 5 days,  $23 \pm 2$  °C and  $50 \pm 5$  %

Description of substrate : Fibre cement board, 8±2 mm, 1800±200 kg/m<sup>3</sup>

conforming to EN 13238.

Sampling procedure : by contractor.

Description of cleaning used : none.
Fixing method : loose laid.

Test	Flame	CRF Peak light		Smoke	
specimen,	spread	(kW/m²)	attenuation	production	
orientation	(cm)		(%)	(% x min)	
1, 🗷	4.0	9.7*	18.5	94	
2, ↑	30.0	7.0*	61.4	565	
3, ↑	33.0	6.5*	65.2	649	
4, ↑	33.0	6.5	61.8	583	
Average	32.0	6.6	62.8	599	

Remarks: no flashing, transitory or sustained flaming

\* specimen extinguished naturally

Comments: Loop pile material got out of the frame during the test,

heavy black smoke emission.

## CONCLUSION

According to EN 13501-1:2007 the tested sample of the aforementioned quality **Design / Diseño** meets the requirements of **Class C**<sub>ff</sub>-s1.

#### <u>Statement</u>

The test results relate to the behaviour of the test speciments of the examined 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.

The validity of this report will expire five years after its issue or directly after alterations of 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.

Author: Review:

Mrs. I. Pierik Mr. J. Brinks

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#### **APPENDIX I: Flooring Radiant Panel Single Specimen Report**

## Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2002

Laboratory : TÜV Rheinland Nederland B.V.

Date of test : Nov. 07 2011 Specimen description : MT 11.33930.01 Test name : Cross Prod #1

File name : D:\FRPFILES\11110002.CSV

Flux calibration file name : C:\FRPSOFT\CALIB\FLX11005.CSV

Thickness (mm) : Density (kg/m³) :

Test duration : 13 minutes 46 seconds (826 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 03 seconds (123 s)
Time to flameout : 13 minutes 18 seconds (798 s)

Extent of burning (mm) : 40

Critical flux at extinguishment (kW/m²) : >= 10.9

RF-10 (kW/m²) : >= 10.9

RF-20 (kW/m²) : >= 10.9

RF-30 (kW/m²) : >= 10.9

Flame spread at 10 minutes (mm) : 40
Flame spread at 20 minutes (mm) : -1
Flame spread at 30 minutes (mm) : -1
Peak light attenuation (%) : 18.45

Time to peak light attenuation : 5 minutes 20 seconds (320 s)

Total integrated smoke (% min) : 93.74

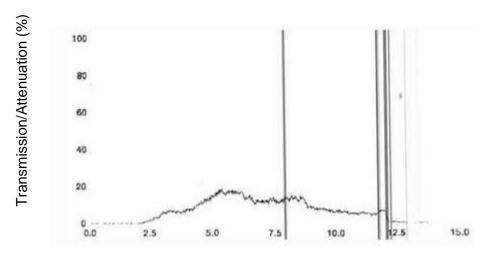
Potential classification : A2(fl)/B(fl)

Smoke production classification : s1



# **APPENDIX I: Flooring Radiant Panel Single Specimen Report**

## **Smoke Graph**



Time (min)

Test name: Cross Prod #1

File name : D:\FRPFILES\11110002.CSV

## **Rake Results**

Position	Time (s)	Flux	Qsb	Position	Time (s)	Flux	Qsb
(mm)		(kW/m²)	(MJ/m²)	(mm)		(kW/m²)	(MJ/m²)
60	-	11.5	-	510	-	3.6	-
110	-	10.6		560	-	2.9	
160	-	9.8	-	610		2.4	-
210	-	8.9	-	660	-	2.2	
260		7.8	-	710	-	1.9	
310		6.8	-	760	-	1.6	
360		5.9		810		1.3	-
410	-	5.3		860	-	1.2	-
460	-	4.3	-	910	-	1.1	

## **Comments**

Specimen extinguished naturally.