BONAR FLOORS NV Postbus 17 NL-1560 AA KROMMENIE NEDERLAND

your e-mail of 2009-01-12

your reference

our reference PVH/1606

Zwijnaarde, 2009-02-20

Analysis Report 66812

Required tests:

Classification of reaction to fire in accordance with EN 13501-1:2007

Identification number	Information given by the client		Date of receipt
T900380	quality FR treated use-surface surface structure	Tuftiguard 12mm Heavy Duty FR yes PA6.6/Aluminium loop pile	2009-01-14

Pros Van Hoeyland order responsible

Notified body No: 0493

For further information, please contact our sectorial adviser Pros Van Hoeyland

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date

page

PVH/1606

2009-02-20

2/5

Reference:

T900380 - Tuftiguard 12mm Heavy Duty FR

Classification of reaction to fire in accordance with EN 13501-1:2007

1. Method:

Test Method

- EN ISO 11925-2:2002

Standard

- EN 13501-1:2007

The test results relate to the behaviour of the test specimens of a 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.

Floor covering

- substrate

- fibre cement board

- density (1800 \pm 200) kg/m³

- dimensions 250 mm x 90 mm x 5 mm

adhesive

: - none / specimens were tested loose laid

- cleaning : - textile floor coverings are subjected to the laboratory spray extraction

cleaning procedure according to ISO 11379

Conditioning

minimum 14 days at (23 ± 2) °C and (50 ± 5) % RH

or

until constant mass is achieved

2. Results:

End of tests: 16 February 2009

The tests are carried out in accordance with EN ISO 11925-2 - surface ignition.

Surface ignition - test specimen loose-laid on the substrate

test specimen	lengthwise		
	1	2	3
time to reach 150 mm mark (s)	I	I	1
ignition filter paper within 20 s after flame application	no	no	no

I = mark not reached within 20 s after application of the flame.

Criteria floorings

time to reach the mark $- \ge 20 \text{ s}$: Class E_{fl}

-< 20 s : Class E_{fl}

Classification: Class En

Limitations

This classification document does not represent type approval or certification of the product.

Performed under accreditation in the fire lab under the responsibility of Pros Van Hoeyland.





date

page

PVH/1606

2009-02-20

3/5

Reference:

T900380 - Tuftiguard 12mm Heavy Duty FR

Classification of reaction to fire in accordance with EN 13501-1:2007

1. Method:

Test Method

- EN ISO 9239-1:2002

Standard

- EN 13501-1:2007

The test results relate to the behaviour of the test specimens of a 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.

Floor covering

- substrate

- fibre cement board

- density (1800 ± 200) kg/m³ - dimensions 105 cm x 23 cm x 0,5 cm.

- adhesive

: - none / specimens were tested loose laid

- cleaning

: - textile floor coverings are subjected to the laboratory spray extraction

cleaning procedure according to ISO 11379

Conditioning

minimum 14 days at (23 ± 2) °C and (50 ± 5) % RH

until constant mass is achieved



date

page

PVH/1606

2009-02-20

4/5

Reference:

T900380 - Tuftiguard 12mm Heavy Duty FR

2. Results:

End of tests: 11 February 2009

Radiant heat flux

Test	flame spread distance (cm)			flame time	heat flux * kW/m²
	10 min	20 min	30 min		
length					
1	16	28	33	30 min 0 s	6.6
2	15	27	32	28 min 10 s	6.8
3	14	25	32	30 min 0 s	6.8
verage					6.7

^{*} heat flux at the time of flame extinguishment or after a test duration of 30 minutes.

Fire classification in accordance with EN 13501-1:2007			
Class	EN ISO 11925-2 or CWFT	EN ISO 9239-1 (test duration = 30 min	
B _{fl}	Efi	heat flux ≥ 8,0 kW/m ²	
Cfl	E _{fl}	heat flux ≥ 4,5 kW/m ²	
D _{fl}	E _{fi}	heat flux ≥ 3,0 kW/m ²	

Smoke production

Test	maximum light attenuation (%)	total light attenuation (%min)
length		
1	9	62
2	10	75
3	- 9	88
average		75

Additional classification in accordar	nce with EN 13501-1:2007
smoke production ≤ 750%.min	s1
smoke production > 750%.min	s2





date

page

PVH/1606

2009-02-20

5/5

Reference:

T900380 - Tuftiguard 12mm Heavy Duty FR

3. Classification:

Reaction to fire classification: Cn / s1

Limitations

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