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**via certification**

**your visit of**  
2008-11-04

**your reference**

**our reference**  
PVH/10987

**date**  
Zwijnaarde, 2008-12-02

**Analysis Report 65716**

Required tests :

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

Identification number	Information given by the client	Date of receipt
T810580	quality FR treated use-surface substrate, support backing layer total mass pile thickness total thickness surface structure	FP 600 yes 100% polyamide 6 75% PES – 25% PA latex 1,650 kg/m <sup>2</sup> ±5 mm ±6 mm cut pile

Pros Van Hoeyland  
order responsible

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Reference : T810580 - FP 600

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

Classification of textile floor coverings in accordance with EN 14041 (2004) § 4.1.4

“The textile floor coverings listed in Table 2, in the end uses identified in the table, are classified without further testing (CWFT) in the classes shown and do not require testing in respect of these end uses and classes”.

**Table 2 – Classes of reaction to fire for textile floor coverings, classified without further testing**

Floor covering type <sup>1</sup>	EN product standard	Class <sup>3</sup> Floorings
Non-FR machine-made wall-to-wall carpets and pile carpet tiles <sup>2</sup>	EN 1307	E <sub>fl</sub>
Non-FR needled textile floor coverings without pile <sup>2</sup>	EN 1470	E <sub>fl</sub>
Non-FR needled textile floor coverings with pile <sup>2</sup>	EN 13297	E <sub>fl</sub>
<sup>1)</sup> Floor covering glued or loose laid over a Class A2-s1,d0 substrate <sup>2)</sup> Textile floor coverings having a total mass of max. 4.8 kg/m <sup>2</sup> , a minimum pile thickness of 1,8 mm (ISO 1766) and <ul style="list-style-type: none"> <li>- a surface of 100% wool</li> <li>- a surface of 80% wool or more – 20% polyamide or less</li> <li>- a surface of 80% wool or more – 20% polyamide/polyester or less</li> <li>- a surface of 100% polyamide</li> <li>- a surface of 100% polypropylene and if with SBR-foam backing, a total mass of &gt; 0.780 kg/m<sup>2</sup>. All polypropylene carpets with other foam backings are excluded.</li> </ul> <sup>3)</sup> Class as provided for in Table 2 in the Annex to Decision 2000/147/EC.		

Classification: E<sub>fl</sub>

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**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  $(1800 \pm 200)$  kg/m<sup>3</sup>
  - 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  $(23 \pm 2)$  °C and  $(50 \pm 5)$  % RH  
or  
until constant mass is achieved

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## 2. Results:

End of tests: 1 December 2008

### Radiant heat flux

Test	flame spread distance (cm)			flame time	heat flux * kW/m <sup>2</sup>
	10 min	20 min	30 min		
length					
1	21	28	28	19 min 55 s	8.0
width					
1	21	31	33	26 min 0 s	6.9
2	14	14	14	12 min 0 s	11.0
3	20	23	23	14 min 20 s	9.1
<b>average</b>					<b>9.0</b>

\* 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 <sub>fl</sub>	E <sub>fl</sub>	heat flux ≥ 8,0 kW/m <sup>2</sup>
C <sub>fl</sub>	E <sub>fl</sub>	heat flux ≥ 4,5 kW/m <sup>2</sup>
D <sub>fl</sub>	E <sub>fl</sub>	heat flux ≥ 3,0 kW/m <sup>2</sup>

### Smoke production

Test	maximum light attenuation (%)	total light attenuation (%min)
length		
1	44	196
width		
1	50	170
2	17	36
3	33	97
<b>average</b>		<b>101</b>

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

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**3. Classification:**

**Reaction to fire classification: B<sub>fl</sub> / s1**

**Limitations**

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

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