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DOMO OUDENAARDE NV
Floorcoverings - Residential flooring
De Bruwaan 4
9700 OUDENAARDE

via certification

your delivery of 2007-05-21	your reference	our reference PVH/5838	date Zwijnaarde, 2007-06-18
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Analysis Report 57300

Required tests :

EN 13501-1 (2002) Fire classification of construction products and building elements
Part 1: Classification using test data from reaction to fire tests

Identification number	Information given by the client	Date of receipt
T704687	quality FR treated use-surface backing layer total mass pile thickness total thickness surface structure	Nexos Plus no 100% PP Gelbacking ± 1.400 kg/m ² 6 mm 8 mm needlefelt

Pros Van Hoeyland
order responsible

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our reference	date	page
PVH/5838	2007-06-18	2 / 4

Reference : T704687 - Nexos Plus

EN 13501-1 (2002) Fire classification of construction products and building elements
Part 1: Classification using test data from reaction to fire tests

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 ¹	EN product standard	Class ³ Floorings
Non-FR machine-made wall-to-wall carpets and pile carpet tiles ²	EN 1307	E _{fl}
Non-FR needed textile floor coverings without pile ²	EN 1470	E _{fl}
Non-FR needed textile floor coverings with pile ²	EN 13297	E _{fl}
¹⁾ Floor covering glued or loose laid over a Class A2-s1,d0 substrate ²⁾ Textile floor coverings having a total mass of max. 4.8 kg/m ² , a minimum pile thickness of 1,8 mm (ISO 1766) and <ul style="list-style-type: none"> - a surface of 100% wool - a surface of 80% wool or more – 20% polyamide or less - a surface of 80% wool or more – 20% polyamide/polyester or less - a surface of 100% polyamide - a surface of 100% polypropylene and if with SBR-foam backing, a total mass of > 0.780 kg/m². All polypropylene carpets with other foam backings are excluded. ³⁾ Class as provided for in Table 2 in the Annex to Decision 2000/147/EC.		

Classification: E_{fl}

Reference : T704687 - Nexos Plus

EN 13501-1 (2002) Fire classification of construction products and building elements
Part 1: Classification using test data from reaction to fire tests

Test in accordance with

EN ISO 9239-1 (2002): Reaction to fire tests for floorings

Part 1: Determination of the burning behaviour using a radiant heat source

End of tests: 15 June 2007

Floor covering

- substrate : - fibre cement board
- density $(1800 \pm 200) \text{ kg/m}^3$
- dimensions 105 cm x 23 cm x 0,5 cm.
- adhesive : - UZIN UZ 50 / Unipro - low emission, solvent-free dispersion adhesive –
"EC1 very low emission"
- cleaning : - textile floor coverings are subjected to the laboratory spray extraction
cleaning procedure according to ISO 11379

Conditioning

minimum 14 days at $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \% \text{ RH}$

or

until constant mass is achieved

Radiant heat flux

Test	flame spread distance (cm)			flame time	heat flux * kW/m ²
	10 min	20 min	30 min		
width					
1	23	35	35	22 min 55 s	6,2
length					
1	25	35	36	28 min 5 s	6,0
2	22	35	35	21 min 55 s	6,2
3	23	33	33	24 min 40 s	6,6
average					6,3

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

Fire classification in accordance with EN 13501-1 (2002)		
Class	EN ISO 11925-2 or CWFT	EN ISO 9239-1 (test duration = 30 min)
B _{fl}	E _{fl}	heat flux ≥ 8,0 kW/m ²
C _{fl}	E _{fl}	heat flux ≥ 4,5 kW/m ²
D _{fl}	E _{fl}	heat flux ≥ 3,0 kW/m ²

Reference : T704687 - Nexos Plus

Smoke production

Air flow rate in the stack : 2,5 m/s (measured before testing).

The following parameters are measured :

- maximum light attenuation (%)
- total light attenuation (%min)

Test	maximum light attenuation (%)	total light attenuation (%min)
width		
1	26	71
length		
1	28	104
2	20	104
3	30	75
average		94

Additional classification in accordance with EN 13501-1 (2002)	
smoke production \leq 750%.min	s1
smoke production $>$ 750%.min	s2

Fire classification in accordance with EN 13501-1 (2002):

C_{fl} / s1

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.