



warringtonfiregent  
global safety

## **Reaction to fire classification report Nr 14637E**

### **Owner of the classification report**

BN International BV  
Rokerijweg 5  
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The Netherlands

### **Introduction**

This classification report defines the classification assigned to the product '**Residential / Consumer wall covering - non woven backed**' in accordance with the procedures given in the standard EN 13501-1+A1: 2009: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

**This classification report consists of 5 pages**



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## 1. DETAILS OF CLASSIFIED PRODUCT

### a) Nature and end use application

The product **Residential / Consumer wall covering - non woven backed** is defined as a 'decorative wall covering'.

Its classification is valid for the following end use application(s):

'Applying to internal walls or partitions by means of adhesive for the primary purpose of decoration'.

### b) Description

The product **Residential / Consumer wall covering – non woven backed** consist of a vinyl based wall covering with a non woven backing.

The mass per unit area of the vinyl layer varies, the mass per unit area of the non woven is approximately  $85 \pm 5 \text{ g/m}^2$ .

More details are available in the test report(s) in support of this classification (§2a).

## 2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

### a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. Nr.	Test method
WFRGENT N.V. Ghent, Belgium	BN International B.V.	14637B 14637D	EN 13823 (February 2002)
WFRGENT N.V. Ghent, Belgium	BN International B.V.	14637A 14637C	EN ISO 11925-2 (February 2002)
WFRGENT N.V. Ghent, Belgium	BN International B.V.	14637F	EXAP according to CEN/TS 15117

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s2,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30s flame application: <u>Surface exposure</u> - front side	$F_s \leq 150\text{mm}$	6	(-)	Yes	(-)	Yes
	Ignition filter paper		(-)	No	(-)	No
	<u>Edge exposure</u> - front	6	(-)	Yes	(-)	Yes
	Ignition filter paper		(-)	No	(-)	No
EN 13823 (2)	FIGRA <sub>0,2 MJ</sub> (W/s)	3	102	(-)	$\leq 120$	(-)
	FIGRA <sub>0,4 MJ</sub> (W/s)		102	(-)	$\leq 120$	(-)
	LFS <sub>-edge</sub>		(-)	Yes	(-)	Yes
	THR <sub>600s</sub> (MJ)		1,6	(-)	$\leq 7,5$	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		8	(-)	$\leq 180$	(-)
	TSP <sub>600s</sub> (m <sup>2</sup> )		66	(-)	$\leq 200$	(-)
	Flaming droplets/particles f<10s		(-)	No	(-)	No
	f>10s		(-)	No	(-)	No

(-) Not applicable

(\*) The material did not melt nor pull away from the pilot burner.

(1) Based on the results obtained in test report Nr. 14637A, white

(2) Based on the results obtained in test report Nr. 14637B, white

		Sample 1	Sample 2	Sample 3
<u>Edge exposure</u>	$F_s \leq 150\text{mm}$	Yes	Yes	Yes
-front	Ignition filter paper	No	No	No

Based on the results obtained in test report Nr. 14637C, only edge exposure was performed per product variation (Sample 1 black, Sample 2 red, Sample 3 white)

	Sample 1	Sample 2	Sample 3
Average FIGRA (W/s)	20,55	48,57	101,43
Average THR <sub>600s</sub> (MJ)	0,96	0,98	1,52
Average SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3,43	0	7,96
Average TSP <sub>600s</sub> (m <sup>2</sup> )	56,64	45,02	66,19

Based on the results obtained in test report Nr. 14637D, only 2 tests were performed for the dark and light product, only one test was performed for the red product (Sample 1 black, Sample 2 red, Sample 3 white)

### 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

a) Reference and direct field of application

This classification has been carried out in accordance with EN 13501-1+A1: 2009 and EN 15102:2007.

b) Classification

The product **Residential /Consumer wall covering - non woven backed** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
<b>B</b>	<b>s2</b>	<b>d0</b>

c) Field of application

This classification for the product as described in §1b, is valid for the following end use conditions :

- Substrate: Euroclass A2-s1 d0 or better with a density of equal to greater than 653 kg/m<sup>3</sup> and a thickness of equal or greater than 12,5 mm.
- With or without backing board: Euroclass A2-s1 d0 or better with a density of equal to greater than 653 kg/m<sup>3</sup> and a thickness of equal or greater than 12,5 mm.
- Fixing: Glued (Perfax 200 g/m<sup>2</sup>)
- With joints

This classification is valid for the following product parameters:

- Nominal mass per unit area: from 200 g/m<sup>2</sup> till 325 g/m<sup>2</sup>
- All colours



#### 4. RESTRICTIONS

At the time the standard EN 13501-1+A1:2009 was published, no decision was made concerning the duration of validity of a classification report.

#### 5. WARNING

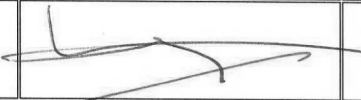
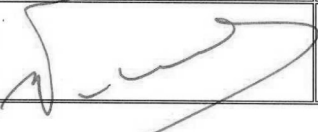
This classification report does not represent type approval nor certification of the product.

The following statement is included in accordance with Fire Sector Group Recommendation 001rev2:

“The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of a system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.”

Report	Name	Signature (*)	Date
Prepared by	ir. Kim CATRY		26 NOV. 2010
Reviewed by	Prof. Dr. Ir. Paul VANDEVELDE		26 NOV. 2010
(*) For and on behalf of "WFRGENT N.V."			

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