

Reaction to fire classification report Nr 14559E

Owner of the classification report

DECOPRINT N.V.
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Introduction

This classification report defines the classification assigned to the product '**Non Woven**' 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 7 pages

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **Non woven** is defined as a 'Decorative wall covering '.

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

'internal decorative wall covering'.

b) Description

Sample 1 : Non Woven 8009 white

General description		Wallcovering bonded to plasterboard utilising a laboratory adhesive
Product reference of wallcovering		Non woven 8009
Overall wallcovering thickness		0.23 mm (MV)
Manufacturer of wallcovering		Decoprint NV
Overall wallcovering weight per unit area		130 g/m ² (129 g/m ² MV)
Batch reference of wallcovering		2175.10
Range reference of wallcovering		Non woven 8009
Pattern reference of wallcovering		None
Colour reference of wallcovering (as determined by warringtonfire)		White
Composition		48,1 % cellulose 15,8 % polyester 17,8 % binder 17,8 % fillers 0,5 % others
Print		None
Adhesive	Product reference	A laboratory adhesive
	Generic type	A ready mixed PVA adhesive
	Name of manufacturer	Known to the laboratory
	Application rate	200 g/m ²
	Application method	Brush
	Flame retardant details	The supplier was unable to provide this information
Substrate	Product reference	Gypsum plasterboard
	Generic type	Gypsum board with a 2 mm thick coating of gypsum finish plaster
	Name of manufacturer	Gyproc
	Thickness	12,5 mm
	Density	700 kg/m ³
	Flame retardant details	None

MV values verified by the laboratory after conditioning

Sample 2 : Non woven 8000 white

General description		Wallcovering bonded to plasterboard utilising a laboratory adhesive
Product reference of wallcovering		Non woven 8000
Overall wallcovering thickness		0.27 mm (MV)
Manufacturer of wallcovering		Decoprint NV
Overall wallcovering weight per unit area		158 g/m ² (157g/m ² MV)
Batch reference of wallcovering		5178.0121
Range reference of wallcovering		Non woven 8000
Pattern reference of wallcovering		"flowers"
Colour reference of wallcovering (as determined by warringtonfire)		White
Print	Product reference	Known to the laboratory
	Generic type	Water based inks
	Name of manufacturer	Known to the laboratory
	Application rate	Ca 12 g/m ²
	Application method	engraving
	Curing process	Oven
	Flame retardant details	None
Adhesive	Product reference	A laboratory adhesive
	Generic type	A ready mixed PVA adhesive
	Name of manufacturer	Known to the laboratory
	Application rate	200 g/m ²
	Application method	Brush
	Flame retardant details	The supplier was unable to provide this information
Substrate	Product reference	Gypsum plasterboard
	Generic type	Gypsum board with a 2mm thick coating of gypsum finish plaster
	Name of manufacturer	Gyproc
	Thickness	12,5 mm
	Density	700 kg/m ³
	Flame retardant details	None

MV values verified by the laboratory after conditioning

Sample 3 : Non woven 8000 blue

General description		Wallcovering bonded to plasterboard utilising a laboratory adhesive
Product reference of wallcovering		Non woven 8000
Overall wallcovering thickness		0.27 mm (MV)
Manufacturer of wallcovering		Decoprint NV
Overall wallcovering weight per unit area		165 g/m ² (162 g/m ² MV)
Batch reference of wallcovering		5749.6059
Range reference of wallcovering		Non woven 8000
Pattern reference of wallcovering		lines

Colour reference of wallcovering (as determined by warringtonfire)		Blue and grey
Composition		48,1 % cellulose 15,8 % polyester 17,9 % binder 17,9 % fillers 0,3 % others
Print	Product reference	Known to the laboratory
	Generic type	Water based inks
	Name of manufacturer	Known to the laboratory
	Application rate	Ca 12 g/m ²
	Application method	engraving
	Curing process	Oven
Adhesive	Flame retardant details	None
	Product reference	A laboratory adhesive
	Generic type	A ready mixed PVA adhesive
	Name of manufacturer	Known to the laboratory
	Application rate	200 g/m ²
	Application method	Brush
Substrate	Flame retardant details	The supplier was unable to provide this information
	Product reference	Gypsum plasterboard
	Generic type	Gypsum board with a 2mm thick coating of gypsum finish plaster
	Name of manufacturer	Gyproc
	Thickness	12,5 mm
	Density	700 kg/m ³
Flame retardant details		None

VM values verified by the laboratory after conditioning

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	DECOPRINT N.V.	14559B 14559D	EN 13823 (February 2002)
WFRGENT N.V. Ghent, Belgium	DECOPRINT N.V.	14559A 14559C	EN ISO 11925-2 (February 2002)
WFRGENT N.V. Ghent, Belgium	DECOPRINT N.V.	14559F	EXAP according to CEN/TS 15117

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - front side	$F_s \leq 150\text{mm}$	6	(-)	Yes	(-)	Yes
	Ignition filter paper		(-)	No	(-)	No
	$F_s \leq 150\text{mm}$	6	(-)	Yes	(-)	Yes
	Ignition filter paper		(-)	No	(-)	No
EN 13823 (2)	FIGRA _{0,2MJ} (W/s)		104	(-)	≤ 120	(-)
	FIGRA _{0,4MJ} (W/s)		68	(-)	≤ 120	(-)
	LFS _{-edge}		(-)	Yes	(-)	Yes
	THR _{600s} (MJ)		1,7	(-)	$\leq 7,5$	(-)
	SMOGRA (m ² /s ²)	3	0	(-)	≤ 30	(-)
	TSP _{600s} (m ²)		25	(-)	≤ 50	(-)
	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. 14559A

(2) Based on the results obtained in test report Nr. 14559B

		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. 14559C, only edge exposure was performed per product variation

	Sample 1	Sample 2	Sample 3
Average FIGRA (W/s)	83,66	108,89	104,79
Average THR _{600s} (MJ)	1,6	1,8	1,6
Average SMOGRA (m ² /s ²)	0	0	0
Average TSP _{600s} (m ²)	30	25,8	24,8

Based on the results obtained in test report Nr. 14559D, only 2 tests were performed per product variation

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 **Non Woven** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	s1	d0

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, with a thickness of 12,5 mm and a nominal density of minimum 525 kg/m³, or better
- Fixing: Glued

This classification is valid for the following product parameters:

- Nominal thickness : 0,25 ± 0,2 mm
- Nominal mass per unit area: from 130 g/m² till 165 g/m²
- Non woven 8000 8009 8940 8942 and 8057
- 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 APR. 2011
Reviewed by	dr. ir. Bart SETTE		26 APR. 2011
(*) For and on behalf of "WFRGENT nv"			

EN 13501-1 B-C-D WG 3E*

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