

Willems 08-01-2020

To whom it may concern.

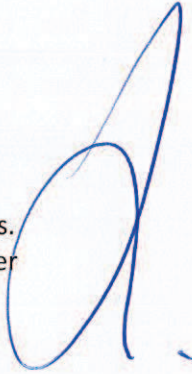
This letter is to confirm that the contract vinyl wallcovering product of the collection GONI is 450 g/m² on non-woven fabric backing and produced by BN WALLS for TEXDECOR.

This quality of wallcovering is tested under the classification report Nr.13321E as

B-s2-d0

Best regards.

Benoit Janssens.
Quality manager



Additional reaction to fire classification report No. 13321E

Owner of the additional classification report

BN INTERNATIONAL B.V.
Rokerijweg 5
NL-1271 AH HUIZEN
THE NETHERLANDS

Introduction

This additional classification report defines the classification assigned to the product '**BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED**' in accordance with the procedures given in the standard EN 13501-1:2007: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This additional classification report consists of 7 pages

This report is additional to that issued as No. 13321C, dated 03/11/2008. This report is drafted in accordance with the regulations of EGOLF Agreement EGA 08rev2:2013 "Application note: clause 5.10 / 4-2 – Amendment of reports: client changing product/company names (ii) for commercial reasons – Issue of additional reports". The original report remains valid and is not replaced by this report. The product has not been retested and this report does not involve technical changes or technical reviews of the original report. The original and the new name of the product and of the company commercially responsible for the product, as well as the declarations concerning this additional report, are documented by the laboratory and maintained in the laboratory records.

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED** is defined as a 'decorative wall covering'.

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

Used for attaching onto walls or ceilings, by means of an adhesive.

b) Description of the tested product

The product "**BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED**" consists of a vinyl based wall covering with a non woven backing. The vinyl layer has a weight from 300 g/m² till 390 g/m². The weight of the non woven backing is 60 g/m².

Nominal values		
Mass per unit area (g/m ²)	360	450

Mounting: The product was glued onto a calcium silicate board (12.5 mm, 870 kg/m³) with BK10-PVA adhesive (200 g/m²).

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. No.	Test method
WFRGENT nv Ghent, Belgium	BN International B.V.	12677D, 12677E, 12677F, 12564, 13321B	EN 13823 (February 2002)
WFRGENT nv Ghent, Belgium	BN International B.V.	12677A, 12677B, 12677C, 13321A	EN ISO 11925-2 (February 2002)
WFRGENT nv Ghent, Belgium	BN International B.V.	13321D	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) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - front side	F _s ≤ 150 mm Ignition filter paper	6	(-)	Yes	(-)	Yes
			(-)	No	(-)	No
	F _s ≤ 150 mm Ignition filter paper	6	(-)	Yes	(-)	Yes
			(-)	No	(-)	No
EN 13823 (2) FIGRA _{0,2 MJ} (W/s) FIGRA _{0,4 MJ} (W/s) LFS _{<edge} THR _{600s} (MJ) SMOGRA (m ² /s ²) TSP _{600s} (m ²) Flaming droplets/particles f < 10 s f > 10 s	3	14	(-)	≤ 120	(-)	
		(-)	(-)	(-)	(-)	
		(-)	Yes	(-)	Yes	
		1.2	(-)	≤ 7,5	(-)	
		4	(-)	≤ 180	(-)	
		49	(-)	≤ 200	(-)	
		(-)	No	(-)	No	
(-)	No	(-)	No			

(-) Not applicable.

(*) The material didn't melt nor pull away from the pilot burner.

(1) Based on the results obtained in test report No. 12677A, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED white, design 15074.

(2) Based on the results obtained in test report No. 12677D, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED white, design 15074.

EN ISO 11925-2 (*) (3) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - front side	$F_s \leq 150$ mm Ignition filter paper $F_s \leq 150$ mm Ignition filter paper	6 6	(-) (-) (-) (-)	Yes No Yes No	(-) (-) (-) (-)	Yes No Yes No
EN 13823 (4)	FIGRA _{0,2 MJ} (W/s) FIGRA _{0,4 MJ} (W/s) LFS _{<edge} THR _{600s} (MJ) SMOGRA (m ² /s ²) TSP _{600s} (m ²) Flaming droplets/particles f < 10 s f > 10 s	3	10 (-) (-) 1.4 0 43 (-) (-)	(-) (-) Yes (-) (-) (-) No No	≤ 120 (-) (-) ≤ 7,5 ≤ 180 ≤ 200 (-) (-)	(-) (-) Yes (-) (-) (-) No No
EN ISO 11925-2 (*) (5) 30 s flame application: <u>Edge exposure</u> - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
EN 13823 (6)	FIGRA _{0,2 MJ} (W/s) FIGRA _{0,4 MJ} (W/s) LFS _{<edge} THR _{600s} (MJ) SMOGRA (m ² /s ²) TSP _{600s} (m ²) Flaming droplets/particles f < 10 s f > 10 s	2	18 (-) (-) 1.2 6 48 (-) (-)	(-) (-) Yes (-) (-) (-) No No	≤ 120 (-) (-) ≤ 7,5 ≤ 180 ≤ 200 (-) (-)	(-) (-) Yes (-) (-) (-) No No

(-) Not applicable.

(*) The material didn't melt nor pull away from the pilot burner.

(3) Based on the results obtained in test report No. 12677B, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED black, design 15073.

(4) Based on the results obtained in test report No. 12677E, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED black, design 15073.

(5) Based on the results obtained in test report No. 12677C, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED red, design 15076.

(6) Based on the results obtained in test report No. 12677F and 12564, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED red, design 15076.

EN ISO 11925-2 (*) (7) 30 s flame application: <u>Surface exposure</u> - front side	$F_s \leq 150$ mm	6	(-)	Yes	(-)	Yes	
	Ignition filter paper		(-)	No	(-)	No	
	<u>Edge exposure</u> - front side	$F_s \leq 150$ mm	6	(-)	Yes	(-)	Yes
	Ignition filter paper		(-)	No	(-)	No	
EN 13823 (8)	FIGRA _{0,2 MJ} (W/s)		53	(-)	≤ 120	(-)	
	FIGRA _{0,4 MJ} (W/s)		(-)	(-)	(-)	(-)	
	LFS _{-edge}		(-)	Yes	(-)	Yes	
	THR _{600s} (MJ)		2.5	(-)	$\leq 7,5$	(-)	
	SMOGRA (m ² /s ²)	3	13	(-)	≤ 180	(-)	
	TSP _{600s} (m ²)		70	(-)	≤ 200	(-)	
	Flaming droplets/particles						
	f < 10 s		(-)	No	(-)	No	
f > 10 s		(-)	No	(-)	No		

(-) Not applicable.

(*) The material didn't melt nor pull away from the pilot burner.

(7) Based on the results obtained in test report No. 13321A, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED red, design 95600, 450 g/m².

(8) Based on the results obtained in test report No. 13321B, BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED red, design 95600, 450 g/m².

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007 and prEN 15102:2004.

b) Classification

The product **BN CONTRACT WALLCOVERING - NONWOVEN FABRIC BACKED** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	s2	d0

c) Field of application

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

- Glued on any backing with a fire performance of A2 or better with a density of equal to or greater than 820 kg/m³ and a thickness of equal to or greater than 9 mm.
- Without a void
- Fixing: glued with BK10-PVA adhesive (200 g/m²)
- With joints

This classification is valid for the following product parameters:

- Nominal mass per unit area: from 360 g/m² till 450 g/m²
- All colours

4. RESTRICTIONS

At the time the standard EN 13501-1 (2007) 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 001:

“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.

DS102e v1
10/02/2014

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."

PREPARED BY

APPROVED BY

This document is the original version of this additional classification report and is written in English.

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The authenticity of the electronic signatures is assured by Belgium Root CA.

Willems 08-01-2020

To whom it may concern.

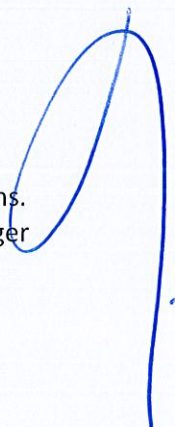
This letter is to confirm that the contract vinyl wallcovering product of the collection GONI is 450 g/m² on non-woven fabric backing and produced by BN WALLS for TEXDECOR.

This quality of wallcovering is tested under the classification report Nr.4700-5433-0518R as

ASTM E84 – 15a

Best regards.

Benoit Janssens.
Quality manager





COMMERCIAL TESTING COMPANY

1215 South Hamilton Street • Dalton, Georgia 30720
Telephone (706) 278-3935 • Facsimile (706) 278-3936

Standard Method of Test for
Surface Burning Characteristics of Building Materials

ASTM E84-15a

BN Walls Contract – NW Fabric Backed 450 g/m² – 20 oz.

Report Number 18-05385

Test Number 4700-5433-0518R

July 30, 2015

BN International
Huizen, The Netherlands

Commercial Testing Company

(Authorized Signature)

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. Sample selection and identification were provided by the client. A sampling plan, if described in the referenced test procedure, was not necessarily followed. This report, or the name of Commercial Testing Company, shall not be used under any circumstance in advertising to the general public.

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INTRODUCTION

This report is a presentation of results of a surface flammability test on a material submitted by BN International, Huizen, The Netherlands.

The test was conducted in accordance with the ASTM International fire-test-response standard E84–15a, *Surface Burning Characteristics of Building Materials*, sometimes referred to as the Steiner tunnel test. ASTM E84 is an American National Standard (ANSI) and has been approved for use by agencies of the Department of Defense. The ASTM E84 test method is the technical equivalent of UL No. 723. The test is applicable to exposed interior surfaces such as walls and ceilings. The test is conducted with the specimen in the ceiling position with the surface to be evaluated face down toward the ignition source. Thus, specimens shall either be self-supporting by its own structural quality, held in place by added supports along the test surface, or secured from the back side.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

PURPOSE

The purpose of the test is to provide only the comparative measurements of surface flame spread and smoke development of materials with that of select grade red oak and fiber-reinforced cement board, Grade II, under specific fire exposure conditions. The test exposes a nominal 24-foot long by 20-inch wide test specimen to a controlled air flow and flaming fire adjusted to spread the flame along the entire length of a red oak specimen in 5½ minutes. During the 10-minute test duration, flamespread over the specimen surface and density of the resulting smoke are measured and recorded. Test results are calculated relative to red oak, which has an arbitrary rating of 100, and fiber-reinforced cement board, Grade II, which has a rating of 0.

The test results are expressed as Flame Spread Index and Smoke Developed Index. The Flame Spread Index is defined in ASTM E 176 as “a number or classification indicating a comparative measure derived from observations made during the progress of the boundary of a zone of flame under defined test conditions.” The Smoke Developed Index, a term specific to ASTM E84, is defined as “a number or classification indicating a comparative measure derived from smoke obscuration data collected during the test for surface burning characteristics.” There is not necessarily a relationship between the two measurements.

The method does not provide for measurement of heat transmission through the surface tested, the effect of aggravated flame spread behavior of an assembly resulting from the proximity of combustible walls and ceilings, or classifying a material as noncombustible solely by means of a Flame Spread Index.

The zero reference and other parameters critical to furnace operation are verified on the day of the test by conducting a 10-minute test using 1/4-inch fiber-reinforced cement board, Grade II. Periodic tests using NOFMA certified 23/32-inch select grade red oak flooring provide data for the 100 reference.

TEST SAMPLE

The test sample, selected by the client, was identified as **BN Walls Contract – NW Fabric Backed 450 g/m² – 20 oz.**, a vinyl wallcovering with a total weight of 13.6 ounces per square yard. Three test panels, each measuring two feet wide by eight feet in length, were prepared by adhering the material to 5/8-inch thick Type X gypsum board complying with ASTM Specification C1396 using Gardner-Gibson Dynamite 111 Heavy Duty Wallcovering Adhesive. The adhesive was applied with a roller to the back of the wallcovering, booked 5 to 7 minutes, the material placed onto the face of the gypsum board, and smoothed with a brush and roller. This method of sample preparation is described in ASTM E2404-13e1, *Standard Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) Wall or Ceiling Coverings, and of Facings and Wood Veneers Intended to be Applied on Site Over a Wood Substrate, to Assess Surface Burning Characteristics*, Section 8.3, *Wall or Ceiling Coverings Intended to be Applied over Gypsum Board*. After dead-stacking overnight, the prepared panels were transferred to storage racks and

conditioned to equilibrium in an atmosphere with the temperature maintained at $71 \pm 2^\circ\text{F}$ and the relative humidity at 50 ± 5 percent. For testing, the panels were placed end-to-end on the ledges of the tunnel furnace and the test conducted with no auxiliary support mechanism.

TEST RESULTS

The test results, calculated on the basis of observed flame propagation and the integrated area under the recorded smoke density curve, are presented below. The Flame Spread Index obtained in E84 is rounded to the nearest number divisible by five. Smoke Developed Indices are rounded to the nearest number divisible by five unless the Index is greater than 200. In that case, the Smoke Developed Index is rounded to the nearest 50 points. The flame spread and smoke development data are presented graphically at the end of this report.

Test Specimen	Flame Spread Index	Smoke Developed Index
Fiber-Reinforced Cement Board, Grade II	0	0
Red Oak Flooring	100	100
BN Walls Contract – NW Fabric Backed 450 g/m² – 20 oz.	25	35

OBSERVATIONS

Specimen ignition over the burners occurred at 0.20 minute. Surface flame spread was observed to a maximum distance of 5.31 feet beyond the zero point at 1.92 minutes. The maximum temperature recorded during the test was 585°F . For information purposes, the actual (unrounded) Flame Spread and Smoke Developed Indices were 25.0 and 33.4 respectively.

CLASSIFICATION

The Flame Spread Index and Smoke Developed Index values obtained by ASTM E84 tests are frequently used by code officials and regulatory agencies in the acceptance of interior finish materials for various applications. The most widely accepted classification system is described in the National Fire Protection Association publication NFPA 101 *Life Safety Code*, where:

Class A	0 – 25 Flame Spread Index	0 – 450 Smoke Developed Index
Class B	26 – 75 Flame Spread Index	0 – 450 Smoke Developed Index
Class C	76 – 200 Flame Spread Index	0 – 450 Smoke Developed Index

Class A, B, and C correspond to Type I, II, and III respectively in other codes. They do not preclude a material being otherwise classified by the authority of jurisdiction.

ASTM E 84 TEST DATA

Client: BN International

Test Number: 4700-5433-0518R

Material Tested: BN Walls Contract – NW Fabric Backed 450 g/m2 – 20 oz.

Date: July 30, 2015

Test Results:

Time to Ignition = 00.20 minutes
Maximum Flamespread Distance = 05.31 feet
Time to Maximum Spread = 01.92 minutes

Flame Spread Index = 25
Smoke Developed Index = 35

