

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1: 2007

Sponsor Forbo Novilon B.V.
De Holwert 12
NL-7741 KC COEVORDEN
The Netherlands

Prepared by Efectis Nederland BV
Lange Kleiweg 5
P.O. Box 1090
NL-2280 CB RIJSWIJK
The Netherlands

Notified Body no. 1234

Product name **Forbo Novilux Traffic 2009 vinyl floor covering**

Classification report no 2008-Efectis-R0599

Issue number 1

Date of issue September 2008

Project number 2008792

This classification report consists of four pages and may only be used in its entirety.

This report is issued by Efectis Nederland BV (previously TNO Centre for Fire Research). Efectis Nederland BV and her sister company Efectis France are full subsidiaries of Efectis Holding SAS since 1 January 2008, in which the Dutch TNO and the French CTICM participate. The activities of the TNO Centre for Fire Research were privatized in Efectis Nederland BV since 1st July 2006. This is in response to international developments and requests by customers. In order to be able to give a better answer to the customer's request and offer a more comprehensive service of high quality and a wider range of facilities, the international collaboration has been further expanded. This is done with highly experienced partners in fire safety in Norway (Sinter-NBL), Spain (Afiti-Licof), Germany (IFT), USA (South West Research Institute) and China (TFRI). Further information can be found at our website.

1. Introduction

This classification report defines the classification assigned to **Forbo Novilux Traffic 2009 vinyl floor covering** in accordance with the procedures given in EN 13501-1: 2007 and EN 653.

2. Details of classified product

2.1 General

The product, **Forbo Novilux Traffic 2009 vinyl floor covering**, is defined as a floor covering.

The floor covering is a quality of the Novilon "653" product family with a thickness range of 1.7 mm to 3.2 mm and surface density range of 1450 g/m² to 2600 g/m².

2.2 Product description

According to the sponsor:

- The product is a heterogeneous PVC floor covering according to EN 653;
- The base of the product is an impregnated glass fleece web;
- The backing of the product consists of a grey coloured mechanical foam layer;
- The product is provided with a 0.7 mm thick top layer, under which an imitation print is applied;
- The product has an overall nominal thickness of 3.0 mm and a nominal weight of 2500 g/m².

2.3 Manufacturer/Importer

Forbo Novilon B.V.
De Holwert 12
NL-7741 KC COEVORDEN
The Netherlands

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratories	Name of sponsor	Test reports	Test method
Efectis Nederland BV, The Netherlands	Forbo Novilon B.V., The Netherlands	2004-CVB-R0238(E) 2004-CVB-R0239(E) 2008-Efectis-R0562 2008-Efectis-R0563	EN ISO 11925-2:2002 EN ISO 9239-1

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN-ISO 11925-2 surface flame impingement	Fs ≤150 mm	6	-	Compliant
	Ignition of filter paper		-	Compliant
EN ISO 9239-1	Critical Heat Flux [kW/m ²]	3	9.7 - 8.7	-
	Smoke density [%.min]		93 - 199	-

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 12 of NEN-EN 13501-1:2007

4.2 Classification

The product, **Forbo Novilux Traffic 2009 vinyl floor covering**, in relation to its reaction to fire behaviour is classified:

B_{fl}

The additional classification in relation to smoke production is:

s1

Reaction to fire classification: B_{fl}-s1

4.3 Field of application

This classification is valid for the following product parameters:

- Thickness 3.0 mm
- Surface density 2500 kg/m² (nominally)
- Other properties the backing of the product consists of a grey coloured mechanical foam layer

This classification is valid for the following end use applications:

- Substrate non-combustible (class A1/A2 according to EN 13501-1)
- Methods and means of fixing gluing. Adhesive used: a vinyl adhesive (Uzin KE 18)
- End use conditions floor covering

4.4 Duration of the validity of this classification report

There are no limitations in time on the validity of this report.

5. Limitations

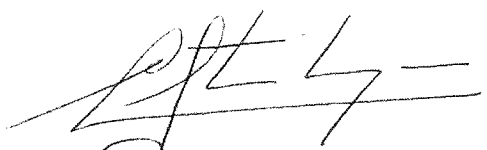
This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of 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.

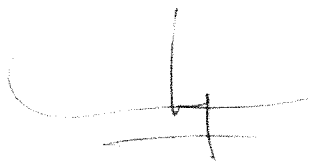
The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Signed



Ing. C.C.M. Steinhage

Approved



W. Langstraat

This report is issued by Efectis Nederland BV (previously TNO Centre for Fire Research). Efectis Nederland BV and her sister company Efectis France are full subsidiaries of Efectis Holding SAS since 1 January 2008, in which the Dutch TNO and the French CTICM participate. The activities of the TNO Centre for Fire Research were privatized in Efectis Nederland BV since 1st July 2006. This is in response to international developments and requests by customers. In order to be able to give a better answer to the customer's request and offer a more comprehensive service of high quality and a wider range of facilities, the international collaboration has been further expanded. This is done with highly experienced partners in fire safety in Norway (Sinter-NBL), Spain (Afiti-Licof), Germany (IFT), USA (South West Research Institute) and China (TFRI). Further information can be found at our website.