

***First Additional Reaction to fire  
classification report on  
classification report Nr 11749C  
Initially a Translation of "Classificatierapport Nr  
11749C"***

**Owner of the classification report**

RECTICEL nv  
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**Introduction**

This classification report defines the classification assigned to the products 'POWERDECK B', 'POWERDECK B Tapered', 'POWERDECK F' and 'POWERDECK F Tapered' mechanically fixed on a steel deck cover type 750/106, for the steel deck side as the fire exposed side, in accordance with the procedures given in the standard EN 13501-1: 2002: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

**This classification report consists of 6 pages**

## 1. DETAILS OF CLASSIFIED PRODUCT

### a) Nature and end use application

The products '**POWERDECK B**', '**POWERDECK B Tapered**', '**POWERDECK F**' and '**POWERDECK F Tapered**' are defined as a 'factory made rigid polyurethane (PIR) foam product' with a steel deck covering on the exposed side.

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

'Self supporting with the insulation product mechanically fixed on a steel deck cover type 750/106 at the fire exposed side and used as a wall or ceiling within the building envelope'.

### b) Description

The tested materials '**POWERDECK B**' and '**POWERDECK B Tapered**' consist of a rigid PIR foam product, faced on the front side with a mineral coated, perforated glass fleece having a surface weight of 300 g/m<sup>2</sup> and on the back side with a bituminous glass fleece and a polypropylene fleece, having a total surface mass of ca. 400 g/m<sup>2</sup>.

	Nominal values
Thickness (mm)	40
Average volumic mass of the PIR foam (kg/m <sup>3</sup> )	30

The tested materials '**POWERDECK F**' and '**POWERDECK F Tapered**' consist of a rigid PIR foam product, faced on both sides with a mineral coated, perforated glass fleece having a surface weight of 300 g/m<sup>2</sup>. The facings are connected with the foam due to the foaming process.

	Nominal values
Thickness (mm)	40
Average volumic mass of the PIR foam (kg/m <sup>3</sup> )	30

## 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 nv Ghent, Belgium	Recticel nv	11749A	EN 13823 (February 2002)
WFRGENT nv Ghent, Belgium	Recticel nv	11749B (*)	EN ISO 11925-2 (February 2002)
WFRGENT nv Ghent, Belgium	Recticel nv	11749D	Extended application report in accordance with CEN TC 127 N2157
TNO-Centre of Fire Research Delft, The Netherlands	Recticel nv	2004-CVB- R0396	EN ISO 11925-2 (February 2002)

(\*) Indicative test for determination of worst case

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 30s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - front side / mid point behind surface	$F_s \leq 150\text{mm}$	6	(-)	Yes	(-)	Yes	
	Ignition filter paper		(-)	Yes	(-)	Yes	
	$F_s \leq 150\text{mm}$	6	(-)	Yes	(-)	Yes	
	Ignition filter paper		(-)	Yes	(-)	Yes	
EN 13823 (1)	FIGRA (W/s)	3	51,30	(-)	$\leq 120$	(-)	
	LFS <sub>-edge</sub>		(-)	No	(-)	No	
	THR <sub>600s</sub> (MJ)		0,77	(-)	$\leq 7,5$	(-)	
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		15,17	(-)	$\leq 180$	(-)	
	TSP <sub>600s</sub> (m <sup>2</sup> )		76,80	(-)	$\leq 200$	(-)	
	Flaming droplets/particles						
	f<10s		(-)	Yes	(-)	Yes	
	f>10s		(-)	Yes	(-)	Yes	
EN 13823 (2)	FIGRA (W/s)	1	42,38	(-)	$\leq 120$	(-)	
	LFS <sub>-edge</sub>		(-)	No	(-)	No	
	THR <sub>600s</sub> (MJ)		0,4	(-)	$\leq 7,5$	(-)	
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		10,09	(-)	$\leq 180$	(-)	
	TSP <sub>600s</sub> (m <sup>2</sup> )		42,3	(-)	$\leq 200$	(-)	
	Flaming droplets/particles						
	f<10s		(-)	Yes	(-)	Yes	
	f>10s		(-)	Yes	(-)	Yes	

(-) Not applicable

(1) Official test results on test report nr. 11749A

(2) Official test results on test report nr. 11749B

### 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

a) Reference and direct field of application

This classification has been carried out in accordance with clause 10.6 of EN 13501-1: 2002.

b) Classification

The products '**POWERDECK B**', '**POWERDECK B Tapered**', '**POWERDECK F**' and '**POWERDECK F Tapered**' in relation to their reaction to fire behavior are 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 :

- Fire attack from the steel deck side
- With a void
- Fixing: Mechanically fixed on a steel deck type 750/106 at the fire exposed side
- Vertical joint in insulation

This classification is valid for the following product parameters:

- Nominal thicknesses of minimum 40mm and all greater thicknesses
- Nominal density: 30 kg/m<sup>3</sup>
- Nominal surface mass perforated glass fleece: 300 g/m<sup>2</sup>
- Nominal surface mass bituminous glass fleece+polypropylene fleece: 400 g/m<sup>2</sup>

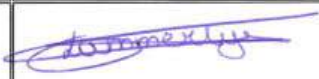

### 4. RESTRICTIONS

At the time the standard EN 13501-1 (February 2002) 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 classification assigned to the product in this report is appropriate to a declaration of conformity by the certification body within the context of a system 1 attestation of conformity and CE marking under the Construction Products Directive, as the sampling was performed by a notified body.

Report	Name	Signature (*)	Date
Prepared by	I. LAMMERTYN		05 OKT. 2011
Reviewed by	ir. K. CATRY		05 OKT. 2011

(\*) For and on behalf of "WFRGENT nv"

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

The present report constitutes a first addition to Classification Report Nr 11749C dated 22/09/2005. It has been drafted in accordance with the regulations of "EN ISO/IEC 17025: 2005 "Application Note : clause 5.10 [5.10/4] – Issue 01 - 2008/04/16 – amendment of test reports : clients changing product / company names (II) – for commercial reasons". The products **Powerdeck B/Powerdeck B Tapered/Powerdeck F/Powerdeck F Tapered** have not been retested. Present additional report does not contain any technical modifications to the original test report.

Both the original and the new denomination of the product and of the company entrusted with marketing the product will be documented and entered in the laboratory's archives.

This initial document is a translation into English of the classification report Nr. 11749C, originally issued in Dutch. This translated test report has been issued under the responsibility of and checked by WFRGENT nv This translation is issued according to the "Interpretations of the European standard EN ISO/IEC 17025: 2005" which applies to fire test laboratories, as defined in the EGOLF agreement EA 08: 2008.

In case of doubt, the original version in Dutch prevails.

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