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# INSTYTUT TECHNOLOGII DREWNA

WOOD TECHNOLOGY INSTITUTE • INSTITUT DE TECHNOLOGIE DU BOIS • INSTITUT FÜR HOLZTECHNOLOGIE

60-654 POZNAŃ – POLSKA • ul. Winiarska 1  
tel.: (+48 61) 849 24 00 • fax: (+48 61) 822 43 72 • e-mail: office@itd.poznan.pl • http://www.itd.poznan.pl

BANK MILLENNIUM SA 36 1160 2202 0000 0000 6089 3555 • NIP 7770000985 • REGON 000124050 • KRS 0000106475

JEDNOSTKA NOTYFIKOWANA NR 1583 • NOTIFIED BODY No. 1583

A-942-BOŚ/2012

Poznań, 2 July 2012

## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to the flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B<sub>fl</sub> covered with 3 layers of **Bona Traffic HD** top coating, in accordance with the procedures given in EN 13501-1:2007.

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

<b>Sponsor:</b>	Bona AB Murmansgatan 130 SE-200 21 Malmö Sweden
<b>Prepared by:</b>	Wood Technology Institute (Instytut Technologii Drewna) ul. Winiarska 1 PL-60-654 Poznań Poland
<b>Notified Body No.:</b>	1583
<b>Product name:</b>	flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B <sub>fl</sub> covered with 3 layers of <b>Bona Traffic HD</b> top coating
<b>Classification report No.:</b>	13/2012
<b>Issue number:</b>	1
<b>Date of issue:</b>	2 July 2012

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AC 098

CERTYFIKAT AKREDYTACJI  
JEDNOSTKI CERTYFIKUJĄCEJ WYROBY  
ACCREDITATION CERTIFICATE  
FOR PRODUCT CERTIFICATION BODY



AB 088

CERTYFIKAT AKREDYTACJI  
LABORATORIUM BADAWCZEGO  
ACCREDITATION CERTIFICATE  
OF TESTING LABORATORY



MEDAL IM. MICHAŁA OCZAPOWSKIEGO  
MICHAŁ OCZAPOWSKI MEDAL



POLSKA PLATFORMA TECHNOLOGICZNA  
SEKTORA LEŚNO-DRZEWNEGO  
POLISH TECHNOLOGY PLATFORM  
FOR FORESTRY AND WOOD SECTOR

## 2 Details of classified product

### 2.1 General

The product, flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B<sub>fl</sub> covered with 3 layers of **Bona Traffic HD** top coating, is defined as a flooring.

### 2.2 Product description

The product, flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN® Flammex particleboard of class B<sub>fl</sub> covered with 3 layers of **Bona Traffic HD** top coating, is described below or is described in the reports provided in support of classification listed in 3.1.

Total thickness of particleboard	12 mm
Density of particleboard	660 kg/m <sup>3</sup>
Type of finish	two-component waterborne polyurethane finish
Application rate	100-120 g/m <sup>2</sup> per layer
Number of lacquer layers	3

## 3 Reports and results in support of this classification

### 3.1 Reports

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
Wood, Wood-Based Materials, Packaging, Furniture, Wooden Constructions and Woodworking Machines Testing Laboratory of Wood Technology Institute in Poznań	Bona AB Murmansgatan 130 SE-200 21 Malmö Sweden	942/2012/S.K record no. 1/942/2012/S.K	EN ISO 9239-1 (radiant heat source method) 27 June 2012 direct application
Wood, Wood-Based Materials, Packaging, Furniture, Wooden Constructions and Woodworking Machines Testing Laboratory of Wood Technology Institute in Poznań	Bona AB Murmansgatan 130 SE-200 21 Malmö Sweden	942/2012/S.K record no. 2/942/2012/S.K	EN ISO 11925-2 (direct impingement of single flame method) 20 June 2012 direct application

### 3.2 Results

Test method and test number	Parameter	No. Tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN ISO 9239-1 (radiant heat source method) A-942-BOŚ/2012/6K	Critical heat flux (kW/m <sup>2</sup> )	3	9.92	(–)
	Smoke production (%·min)		11.41	(–)
EN ISO 11925-2 (direct impingement of single flame method) Exposure time: 15 s A-942-BOŚ/2012/7K	The flame spread $F_S \leq 150$ mm within 20 s from the time of application	6	(–)	COMPLIANT

(–): not applicable

## 4 Classification and field of application

### 4.1 Reference of classification

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

### 4.2 Classification

The product, flooring consisting of a 12-millimetre-thick fire-resistant EUROSPAN<sup>®</sup> Flammex particleboard of class B<sub>fl</sub> covered with 3 layers of **Bona Traffic HD** top coating, in relation to its reaction to fire behaviour is classified:

**B<sub>fl</sub>**

The additional classification in relation to smoke production is:

**s1**

The format of the reaction to fire classification for floorings is:

Fire behaviour		Smoke production	
<b>B<sub>fl</sub></b>	-	<b>s</b>	<b>1</b>

ie.: **B<sub>fl</sub>-s1**

**Reaction to fire classification: B<sub>fl</sub>-s1**

### 4.3 Field of application

This classification is valid for the following product parameters:

- total thickness of particleboard: minimum 12 mm
- particleboard class: B<sub>fl</sub>

(Test report no. 942/2012/S.K of 2 July 2012)

The classification is valid for the following end use applications:

- The product used only on floorings or bases of fire-resistance classes A1<sub>fl</sub> and A2<sub>fl</sub>.
- The product used in a horizontal position with the exposed side up.
- The product used indoors.

## 5 Limitations

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

This document is valid provided that neither the composition nor production technology of the product are changed.

**SIGNED**

**Jacek Pawłowski, M.Sc.**

*Jacek Pawłowski*

**APPROVED**

**Dr Hanna Wróblewska,  
Prof. of Wood Technology Institute**

**KIEROWNIK**  
Sekcji Badań Palności

*Hanna Wróblewska*