



A-666-BOŚ/2014

Poznań, 31st March 2014

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to: sports floor system Lumaflex Duo Linosport xf² 3.2mm, in accordance with the procedures given in PN-EN 13501-1+A1:2010 [EN 13501-1:2007+A1:2009].

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH PN-EN 13501-1+A1:2010

Sponsor:	Tarkett Polska Sp. z o.o. ul. Smoleńskiego 2 PL-01-698 Warszawa Poland
Prepared by:	Wood Technology Institute (Instytut Technologii Drewna) ul. Winiarska 1 60-654 Poznań Poland
Notified Body No	1583
Product name:	sports floor system Lumaflex Duo Linosport xf ² 3.2mm
Classification report No.:	5/2014
Issue number:	1
Date of issue:	31 st March 2014

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2 Details of classified product

2.1 General

The product, sports floor system Lumaflex Duo Linosport xf² 3.2mm, is defined as a flooring.

2.2 Product description

The product, sports floor system Lumaflex Duo Linosport xf² 3.2mm, is described below or is described in the reports provided in support of classification listed in 3.1.

The system consists of linoleum on jute backing, adhered to birch plywood. Under the plywood there is a polyurethane foam Tarfoam and beneath it there is a backing Tarfilm.

Thickness of linoleum together with jute backing	3.2 mm
Surface finish of linoleum	coating xf ² – protection based on UV-cured polyurethane
Thickness of plywood	18 mm
Dimensions of plywood	2430 × 138 mm or 2430 × 295 mm
Thickness of polyurethane foam	15 mm

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	Tarkett Polska Sp. z o.o. ul. Smoleńskiego 2 PL-01-698 Warszawa Poland	666/2014/S.K record no. 1/666/2014/S.K	EN ISO 9239-1 (radiant heat source method) 27 th March 2014 direct application
Wood, Wood-Based Materials, Packaging, Furniture, Wooden Constructions and Woodworking Machines Testing Laboratory of Wood Technology Institute in Poznań	Tarkett Polska Sp. z o.o. ul. Smoleńskiego 2 PL-01-698 Warszawa Poland	666/2014/S.K record no. 2/666/2014/S.K	EN ISO 11925-2 (direct impingement of single flame method) 28 th March 2014 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-666-BOŠ/2014/6K	Critical heat flux (kW/m ²)	3	4.55	(–)
	Smoke production (%·min)		242.9	(–)
EN ISO 11925-2 (direct impingement of single flame method) Exposure time: 15 s A-666-BOŠ/2014/7K	The flame spread $F_s \leq 150$ mm within 20 s from the time of application	6	(–)	YES

(–):not applicable

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with PN-EN 13501-1+A1:2010.

4.2 Classification

The product, sports floor system Lumaflex Duo Linosport xf² 3.2mm, in relation to its reaction to fire behaviour is classified:

C_{fl}

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	
C_{fl}	-	s	1

ie.: **C_{fl}-s1**

Reaction to fire classification: C_{fl}-s1

4.3 Field of application

This classification is valid for the following product parameters:

- Thickness of linoleum: 3.2 mm
- Thickness of plywood: minimum 18 mm
- Thickness of polyurethane foam: 15 mm

(Test report no. 666/2014/S.K of 31st March 2014)

This classification is valid for the following end use applications:

- The product used only on floorings or bases of reaction to fire classes A1 or A2-s1,d0.
- The product used in a horizontal position with the exposed side up.

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, but not longer than until **31st March 2019**.

SIGNED

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APPROVED

**Dr Hanna Wróblewska,
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