
„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA
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Classification of reaction to fire in accordance with EN 13501-1:2018

Issue number: K72/2022

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Customer: SIA “TopDeck”.

Customer’s address: Cēsu street 3, k4-5A, Riga, LV-1012, Latvia.
Reg. No. 40203119268.

Manufacturer and owner of the test report: SIA “TopDeck”.

Prepared by: SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*).

Test performed at: SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*), “Pienavas katlu māja”, Pienava, Džūkstes pagasts, Tukuma novads, LV-3147, Latvia (“*Pienava heat plant*”, Pienava, Džūkste parish, Tukums region, LV-3147, Latvia).

Product name: Decking TopDex.

Laboratory involved in testing is accredited by the Latvian National Accreditation Bureau (LATAK) according to the standard LVS EN ISO/IEC 17025 under the terms of Latvian legislation with reg.No.T-316. Laboratory is a notified body with reg. No. NB 2040 under construction product regulation No. 305/2011.

Classification report refers only to these test objects. This classification report may not be reproduced otherwise than in full text, excepted with the prior written approval of the Forest and Wood Products Research and Development Institute

1. Introduction

This classification report defines the reaction to fire classification assigned to decking TopDex in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

Decking TopDex is defined as wood-polymer composites (WPC) decking material according standard EN 15534-1:2014+A1:2017.

2.2. Product description

- Product name: Decking TopDex.
- Manufacturer: SIA "TopDeck".
- Materials used for manufacturing:
 - wood plastic composite (WPC).
- Thickness: 25 mm.
- Profile type: hollow core with rippled edge surface.
- Tested colour: graphite.

3. Test reports and test results in support of classification

3.1. Specific conditions

Not applicable

3.2. Test reports

Name of laboratory	Name of sponsor	Test reports	Test method
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	SIA "TopDeck"	7067-1/2022	EN ISO 9239-1:2010
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	SIA "TopDeck"	7067-2/2022	EN ISO 11925-2:2020

3.3. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN ISO 9239-1:2010 Test duration (30 min).	Critical heat flux CHF (kW/m ²)	4	Not applicable	(-)
	Heat flux at 30 th min HF-30		6.3	(-)
	Integrated smoke value TIS (%. min)		77.1	(-)
EN ISO 11925-2:2020 Exposure time 15 s. Test duration 20 s.	Flame spread (Fs)	6	(-)	Compliant
	Ignition of filter paper		(-)	Compliant
	Flaming droplets/particles		(-)	Compliant
(-) not applicable				

4. Classification and field of application

4.1. Reference of classification

This classification has been carried out in accordance with clause 12 of EN 13501-1:2018.

4.2. Classification

Decking TopDex in relation to its reaction to fire behaviour is classified:

C_{fi}

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 _{fi}	-	s	1

Reaction to fire classification: C_{fi}-s1

4.3. Field of application

4.3.1 This classification is valid for the following product end use applications:

Product primary is intended to use as wood-polymer composites (WPC) decking material.

4.3.2. This classification is also valid for following product parameters:

- valid for product thickness as tested;
- valid only for product composition as tested;
- valid only for profile type as tested;
- valid only without additional coatings;
- valid only for colour as tested;
- product performance determined without substrate and classification is valid for product mounting as free-standing system without substrate.

5. Limitations.

5.1. No restrictions on the duration of validity of this classification report as long as the product specifications remain unchanged.

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

Prepared by



E. Bukšāns

(signature and name)

Reviewed by



K. Būmanis

(signature and name)

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