

„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

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Sponsor: Keflico A/S.

Address: Juelstrupparken 24, DK 9530 Stoevring, Denmark.
Reg. No. DK23980010.

Manufacturer and owner of classification report: Keflico A/S.

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: Keflico Design Panels – BASIC.

The 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. The laboratory is a notified body with reg. No. NB 2040 under construction product regulation No. 305/2011.

The classification report refers only to these test objects. This classification report may not be reproduced otherwise than in full text, except 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 Keflico Design Panels – BASIC in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

Keflico Design Panels – BASIC defined as fire retardant-treated pine plywood panelling for buildings. The product can be described by harmonized technical specification standard EN 13986:2004+A1:2015.

2.2. Product description

- Product name: Keflico Design Panels – BASIC.
- Manufacturer: Keflico A/S.
- Materials used for manufacturing:
 - 12 mm fire retardant pine plywood;
 - fire retardant lacquering system.
- Tested variables:
 - fire retardant lacquering system MAS2 in white, black and red colour;
 - veneered with Alpi veneer and fire retardant lacquering system.
- Tested thickness: 12 mm.

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	Keflico A/S	9667-1/2024	EN 13823:2020+A1:2022
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Keflico A/S	9667-2/2024	EN ISO 11925-2:2020
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Keflico A/S	10163-1-1	EN 13823:2020+A1:2022
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Keflico A/S	10163-1-2	EN 13823:2020+A1:2022
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Keflico A/S	10163-1-3	EN 13823:2020+A1:2022
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Keflico A/S	10163-1-4	EN 13823:2020+A1:2022

Sampling for all reaction to fire tests was done by DNV Business Assurance Denmark A/S (notified body NB 0527) at Keflico A/S, Denmark.

3.3. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2020+A1:2022	$FIGRA_{0,2MJ}$ (W/s)	3	93	(-)
	$FIGRA_{0,4MJ}$ (W/s)		93	(-)
	THR_{600s} (MJ)		5.2	(-)
	$LFS < edge\ of\ specimen$		yes	Compliant
	$SMOGRA$ (m ² /s ²)		2	(-)
	TSP_{600s} (m ²)		27	(-)
EN ISO 11925-2:2020 Exposure time 30 s. Test duration 60 s.	Flame spread (Fs) ≤ 150mm	6	yes	Compliant
	Ignition of filter paper		no	Compliant
	Flaming droplets/particles		no	Compliant
(-) not applicable				

Test results and specimens identification for additional tested variables:

Specimen No.	10163-1-1	10163-1-2	10163-1-3	10163-1-4
$FIGRA_{0,2MJ}$, W/s	94.3	99.3	96.6	65.9
$FIGRA_{0,4MJ}$, W/s	21.8	14.9	26.8	65.9
THR_{600s} , MJ	2.6	2.0	2.9	6.1
$SMOGRA$, m ² /s ²	Threshold not reached	Threshold not reached	2.0	Threshold not reached
TSP_{600s} , m ²	27.1	26.2	28.3	20.5
Tested variable	in black colour	in white colour	in red colour	with Alpi veneer

4. Classification and field of application

4.1. Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

4.2. Classification

Keflico Design Panels – BASIC in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction product excluding floorings and linings is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Reaction to fire classification: B-s1, d0

4.3. Field of application

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

Product primary is intended to be used as panelling in buildings.

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

- valid for product composition as tested;
- valid only for fire retardant pine plywood as tested;
- valid only for fire retardant lacquering systems as tested;
- mounted with a ventilated or non-ventilated air gap to the substrate of any A1 or A2-s1,d0 with a minimum density of 525 kg/m³ and thickness at least 12 mm, and with the air gap constructed by wooden battens of class D-s2,d0 or better or any A1 or A2-s1,d0 product.
- valid for product mounting with an air gap between substrates. Valid also for product mounting on substrates without air gap;
- valid for all colours.

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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