

„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 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 MAS2.
- 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 and 21 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 | E166-2/2025 (EXAP report) | 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 | (-) |
| | Flaming droplets <10s Flaming droplets >10s | | no no | Compliant Compliant |
| EN ISO 11925-2:2020 | Flame spread (Fs) ≤ 150mm | 6 | yes | Compliant |
| Exposure time 30 s. | Ignition of filter paper | | no | Compliant |
| Test duration 60 s. | Flaming droplets/particles | | no | Compliant |
| (-) not applicable | | | | |

Test results according to REACTION TO FIRE EXTENDED APPLICATION REPORT No. E166-2/2025 for color, thickness, surface coating, veneering and glue and product composition:

| Specimen No. | 10163-1-1 | 10163-1-2 | 10163-1-3 | 10163-1-4 | 166-1-1 |
|----------------------------|-----------------------|-----------|-----------|-----------------------|---------|
| $FIGRA_{0,2MJ}, W/s$ | 94.3 | 99.8 | 96.6 | 65.9 | 80.3 |
| $FIGRA_{0,4MJ}, W/s$ | 21.8 | 14.9 | 26.8 | 65.9 | 62.6 |
| THR_{600s}, MJ | 2.6 | 2.0 | 2.9 | 6.1 | 2.5 |
| $SMOGRA, m^2/s^2$ | Threshold not reached | | 2.0 | Threshold not reached | |
| TSP_{600s}, m^2 | 27.1 | 26.2 | 28.3 | 20.5 | 22.4 |
| $LFS < edge\ of\ specimen$ | yes | yes | yes | yes | yes |
| Flaming droplets <10s | no | no | no | no | no |
| Flaming droplets >10s | no | no | no | no | no |

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:

The 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 fire retardant pine plywood with a thickness range from 12 – 21 mm;
- valid for product composition as tested;
- valid only for fire retardant pine plywood with fire retardant lacquering systems as tested;
- valid with or without alpi veneering;
- 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 an 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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