

„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: Burnblock ApS.

Address: Wilders Plads 15C, 1403 Copenhagen, Denmark.

Reg. No. 33581173.

Manufacturer and owner of the classification report: Kebony AS.

Address: Havnevegen 35, 3739 Skien, Norway.

Reg. No. NO997870719.

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: Kebony Clear modified Radiata pine.

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.

1. Introduction

This classification report defines the reaction to fire classification assigned to Kebony Clear modified Radiata pine in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

Kebony Clear modified Radiata pine is defined as solid wood panelling and cladding according to harmonized product standard EN 14915:2013.

2.2. Product description

- Product name: Kebony Clear modified Radiata pine.
- Manufacturers:
 - BURNBLOCK ApS, Denmark – fire-retardant;
 - Kebony AS, Norway – Kebony wood.
- Materials used for manufacturing:
 - polymer impregnated Radiata pine (*Pinus radiata*) solid wood claddings in dimensions 19 x 145 mm;
 - fire retardant Burnblock JG30 with a concentration of 12% and with an average retention target of 50 kg/m³ by vacuum-pressure impregnation.
- Profile type: shiplap.
- Nominal thickness tested: 19 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 No. (date)	Test method
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Burnblock ApS	730-1/2025	EN 13823:2020+A1:2022
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Burnblock ApS	730-2/2025	EN ISO 11925-2:2020

Sampling for all reaction to fire tests was done by Control Union Finland Oy/ Finotrol (Notified Body 2412).

3.3. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2020+A1:2022	<i>FIGRA</i> _{0,2MJ} (W/s)	4	28	(-)
	<i>FIGRA</i> _{0,4MJ} (W/s)		12	(-)
	<i>THR</i> _{600s} (MJ)		1.8	(-)
	<i>LFS</i> < edge of specimen		yes	Compliant
	<i>SMOGRA</i> (m ² /s ²)		Threshold not reached	(-)
	<i>TSP</i> _{600s} (m ²)		22	(-)
	Flaming droplets <10s Flaming droplets >10s		no no	Compliant Compliant
EN ISO 11925-2:2020	Flame spread (Fs) ≤150 mm	12	yes	Compliant
Exposure time 30 s.	Ignition of filter paper		no	Compliant
Test duration 60 s.	Flaming droplets/particles		no	Compliant
(-) not applicable				

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

Kebony Clear modified Radiata pine 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 solid wood panelling and cladding for building construction.

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

- valid only for Kebony Clear modified Radiata pine solid wood claddings with a thickness of 19 mm as tested;
- valid for profiled Kebony Clear modified Radiata pine solid wood claddings with a closed system and essentially flat cladding profiles having a minimal profile thickness of at least 9 mm;
- valid for product impregnated with fire-retardant Burnblock JG30 and average retention level as tested;
- valid only for the product composition as tested;
- valid without additional coating;
- 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 an untreated wooden frame of class D-s2,d0 or better or any A1 or A2-s1,d0 product;
- valid for product mounting with an air gap between the product and substrate. Valid also for product mounting on substrates without an air gap;
- valid for horizontal and vertical arrangement for mounting with closed joints;
- valid for elements fixed with steel fixings.

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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(Signature validity can be checked: <https://www.eparaksts.lv/en>)