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„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA  
VAT No. LV 43603022749  
Dobeles iela 41, Jelgava, LV-3001, Latvia  
Phone +371 63010605 \* E-mail meka@e-koks.lv \* Web www.e-koks.lv



## Classification of reaction to fire in accordance with EN 13501-1:2018

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**Sponsor:** Akzo Nobel Industrial Coatings AB.

Address: Staffanstorpsvägen 50, 23291, Arlöv, Sweden.  
Reg. No. 556035-9993.

**Manufacturer and owner of classification report:** Akzo Nobel Industrial Coatings AB.

**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:** Coated spruce wood cladding.

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.

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## 1. Introduction

This classification report defines the reaction to fire classification assigned to coated spruce wood cladding in accordance with the procedures given in EN 13501-1:2018.

## 2. Details of classified product

### 2.1. General

Coated spruce wood cladding is defined as solid wood cladding according standard EN 14915:2013.

### 2.2. Product description

- Product name: Coated spruce wood cladding.
- Manufacturer: Akzo Nobel Industrial Coatings AB.
- Materials used for manufacturing:
  - spruce wood with 19 x 148 mm dimensions with nominal density 470 kg/m<sup>3</sup>;
  - coating Rubbol WP 112 FR with consumption 125-140 g/m<sup>2</sup> and Rubbol WF 33xx with consumption 125-150 g/m<sup>2</sup>.
- Nominal thickness tested: 19 mm.
- Tested colour: white, red, black.

## 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	Akzo Nobel Industrial Coatings AB	6449-5/2022	EN 13823:2020
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Akzo Nobel Industrial Coatings AB	6449-6/2022	EN ISO 11925-2:2020

### 3.3. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2020	$FIGRA_{0,2MJ}(W/s)$	8	333.4	(-)
	$FIGRA_{0,4MJ}(W/s)$		333.4	(-)
	$THR_{600s}(MJ)$		13.2	(-)
	LFS		no	Compliant
	$SMOGRA(m^2/s^2)$		28.2	(-)
	$TSP_{600s}(m^2)$		131.2	(-)
	Flaming droplets <10s Flaming droplets >10s		(-) (-)	Compliant Compliant
EN ISO 11925-2:2020  Exposure time 30 s. Test duration 60 s.	Flame spread (Fs)	18	(-)	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 11 of EN 13501-1:2018.

### 4.2. Classification

Coated wood spruce cladding in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s2

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	
D	-	s	2	,	d	0

**Reaction to fire classification: D-s2, 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 use as solid wood cladding.

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

- valid for product thickness 19 mm and larger thicknesses;
- valid only for with spruce wood;
- valid for density deviations within natural limits of spruce wood;
- valid for shiplap profile with minimal profile thickness 9 mm or larger;
- valid only for product composition as tested;
- valid for coating system as tested;
- mounted with ventilated or non-ventilated air gap to substrate of any D-s2,d0 and A1 or A2-s1,d0 with a minimum density of 510 kg/m<sup>3</sup>; 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 air gap between product and substrate. Valid also for product mounting on substrates without air gap;
- valid for product application with standard vertical and horizontal joints;
- valid for vertical and horizontal arrangements;
- valid for all colour tones.

### 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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