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EN ISO/IEC 17025
T-316

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

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Sponsor: Adler Werk Lackfabrik, Johann Berghofer GmbH & Co KG.

Address: Bergwerkstrasse 22, A-6130 Schwaz, Tirol, Austria.
Reg. No. 21399w.

Manufacturer and owner of classification report: Adler Werk Lackfabrik, Johann Berghofer GmbH & Co KG.

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: Coating system Lignovit Platin on Spruce wood cladding.

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 Coating system Lignovit Platin on Spruce wood cladding in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

Coating system Lignovit Platin on Spruce wood cladding is defined as solid wood panelling and cladding. The product can be defined as solid wood panelling and cladding according to harmonized standard EN 14915:2013.

2.2. Product description

- Product name: Coating system Lignovit Platin on Spruce wood cladding.
- Manufacturer: Adler Werk Lackfabrik, Johann Berghofer GmbH & Co KG.
- Materials used for manufacturing:
  - spruce wood boards with density ≥ 400 kg/m^3;
  - primed with Lignovit Lasur Naturgrau (5315053955) from 4 sides with consumption 50 g/m^2;
  - top coated from 3 sides, top coating variables:
    - Lignovit Platin Quarzgrau (5318055716) with consumption 80 g/m^2;
    - Lignovit Platin Achatgrau (5318053571) with consumption 80 g/m^2;
    - Lignovit Platin Pyritgrau (5318076548) with consumption 80 g/m^2.
- Profile type: rectangular.
- 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	Test method
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Adler Werk Lackfabrik, Johann Berghofer GmbH & Co KG	682-1/2025	EN 13823:2020+A1:2022
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Adler Werk Lackfabrik, Johann Berghofer GmbH & Co KG	682-2/2025	EN ISO 11925-2:2020

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)	6	595	(-)
	$FIGRA_{0,4MJ}$(W/s)		595	(-)
	THR_{600s}(MJ)		12.7	(-)
	LFS < edge of specimen		yes	Compliant
	SMOGRA(m^2/s^2)		2	(-)
	TSP_{600s}(m^2)		32	(-)
	Flaming droplets <10s		no	Compliant
	Flaming droplets >10s		no	Compliant
EN ISO 11925-2:2020	Flame spread (Fs) ≤ 150mm	24	yes	Compliant
Exposure time 30 s. Test duration 60 s.	Ignition of filter paper		no	Compliant
	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

Coating system Lignovit Platin on Spruce wood cladding in relation to its reaction to fire behaviour is classified:

D

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	
D	-	s	1	,	d	0

Reaction to fire classification: D-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 solid wood panelling and cladding for installation in buildings.

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

- valid for spruce wood cladding with a thickness of 19 mm and larger thicknesses;
- valid for product composition as tested;
- valid only for rectangular profile spruce wood boards with essentially flat closed cladding system or profiled flat cladding with minimal profile thickness of at least 19 mm;
- valid only with additional coating system 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 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 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 cladding mounting with steel fixings;
- valid only for colours as tested.

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

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