

„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: Solid Protect OÜ.

Customer's address: Vabaduse pst 174B, 10917, Harju maakond, Nõmme linnaosa, Tallinn, Estonia.
Reg. No. 16851651.

Manufacturer and owner of classification report: Solid Protect OÜ.

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: SPFR100.

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.

Classification report refers only to these test objects. This classification report may not be reproduced otherwise than in full text, excepted 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 fire retardant SPFR100 treated spruce wood in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

SPFR100 is defined as fire retardant treatment for wood in building materials. Product is not described by European product specification standard.

2.2. Product description

- Product name: SPFR100.
- Manufacturer: Solid Protect OÜ.
- Materials used for manufacturing:
 - solid spruce wood panels;
 - treated with fire-retardant SPFR100, 2 layers with total consumption 240 g/m².
- Nominal thickness tested: 18 mm and 50 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	Solid Protect OÜ	8972-1/2024	EN 13823:2020+A1:2022
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Solid Protect OÜ	8972-2/2024	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	$FIGRA_{0,2MJ}(W/s)$	5	56.1	(-)
	$FIGRA_{0,4MJ}(W/s)$		51.8	(-)
	$THR_{600s}(MJ)$		4.4	(-)
	$LFS < edge\ of\ specimen$		yes	Compliant
	$SMOGR(m^2/s^2)$		2.8	(-)
	$TSP_{600s}(m^2)$		24.3	(-)
	Flaming droplets <10s Flaming droplets >10s		(-) (-)	Compliant Compliant
EN ISO 11925-2:2020 Exposure time 30 s. Test duration 60 s.	Flame spread (Fs)	12	(-)	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

SPRF100 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 is intended to use as fire retardant treatment for wood in buildings.

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

- valid for spruce wood boards 18 mm thickness and larger thicknesses;
- valid only for spruce wood;
- valid only for fire retardant product as tested with consumption at least 240 g/m².
- valid without additional coating;
- mounted with ventilated or non-ventilated air gap to 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 air gap between product and substrate. Valid also for product mounting on substrates without air gap;
- valid for horizontal and vertical orientation;
- valid for elements fixed with metal 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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