

„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: Sommer-Savex A/S.

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Reg. No. DK13923795.

Manufacturer and owner of classification report: Sommer-Savex 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: Perforated FR plywood (SAA10011; SAA10012; SAA10014; SAA10015)

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 Perforated FR plywood (SAA10011; SAA10012; SAA10014; SAA10015) in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

Perforated FR plywood (SAA10011; SAA10012; SAA10014; SAA10015) is defined as fire-retardant treated perforated plywood panelling for buildings. The product can be described by the harmonized technical specification standard EN 13986:2004+A1:2015.

2.2. Product description

- Product name: Perforated FR plywood.
Product variables: SAA10011; SAA10012; SAA10014; SAA10015
- Manufacturer: Sommer-Savex A/S.
- Materials used for manufacturing:
 - 12 mm fire retardant birch plywood veneered with technical veneer or 12 mm fire retardant pine plywood;
 - special fire retardant treatment;
 - special lacquer top coating.
- perforation geometry variables:
 - front side $\varnothing$ 1.3 mm with a distance cc 4 mm and back side 10 mm with a distance cc 16 mm;
 - perforation $\varnothing$ 8 mm with a distance cc 16 mm;
- Birch plywood density: 640 – 700 kg/ m³;
- Pine plywood density: 650 kg/ m³;
- Tested thickness: 12 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	Sommer-Savex A/S	718-1/2025	EN 13823:2020+A1:2022
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Sommer-Savex A/S	718-2/2025	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	<i>FIGRA</i> _{0,2MJ} (W/s)	7	114	(-)
	<i>FIGRA</i> _{0,4MJ} (W/s)		110	(-)
	<i>THR</i> _{600s} (MJ)		6.6	(-)
	<i>LFS</i> < <i>edge of specimen</i>		yes	Compliant
	<i>SMOGRA</i> (m ² /s ²)		3	(-)
	<i>TSP</i> _{600s} (m ²)		36	(-)
	Flaming droplets <10s Flaming droplets >10s		(-) (-)	Compliant Compliant
EN ISO 11925-2:2020	Flame spread (Fs) ≤ 150mm	30	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

Perforated FR plywood (SAA10011; SAA10012; SAA10014; SAA10015) 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 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 product composition and geometry as tested;
- valid only for fire-retardant pine and birch plywood as tested;
- valid only for veneered birch plywood as tested;
- valid only for fire-retardant lacquering systems as tested;
- valid only for perforation geometry as tested;
- valid only with additional surface treatment as tested;
- valid for product mounting directly on substrates of reaction to fire class A1 and A2-s1,d0 having a density of at least 30 kg/m³ and thickness at least 20 mm;
- also valid for product mounting directly on the substrate of reaction to fire class of any A1 or A2-s1,d0 with a minimum density of 525 kg/m³ and thickness at least 12 mm;
- mounted on wood battens of reaction to fire class B-s1,d0 or any A1 and A2-s1,d0 battens if the air gap is filled with rock-fibre wool;
- product has no orientation limitations;
- 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



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