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Extended application classification of reaction to fire in accordance with EN 13501-1:2018

Issue number: K72/2021

Date of issue: 04.11.2021.

Sponsor: Vesterby Træteknik A/S.

Address: Thorsvej 12-14, 6862 Tistrup, Denmark.
Reg. No. 2211.

Manufacturer and owner of classification report: Vesterby Træteknik 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 POLAR PINE and Perforated BLACK TONED.

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 Perforated POLAR PINE and Perforated BLACK TONED in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

Perforated POLAR PINE and Perforated BLACK TONED is defined as fire retardant treated birch plywood according to product standard EN 13986:2004+A1:2015.

2.2. Product description

- Product name: Perforated POLAR PINE and Perforated BLACK TONED
- Manufacturer: Vesterby Træteknik A/S.
- Options tested:
 - Diameter of holes: 10mm distance between centres of perforation holes: 16 mm;
 - Diameter of holes: 20mm distance between centres of perforation holes: 32 mm;
- Materials used for manufacturing:
 - 12 mm fire retardant birch plywood;
 - 0.6 mm alpi oak and polar pine veneer;

product secret

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	Vesterby Træteknik A/S	6224-1/2021	EN 13823:2020
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Vesterby Træteknik A/S	6224-2/2021	EN ISO 11925-2:2020

3.3. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2020	<i>FIGRA</i> _{0,2MJ} (W/s)	7	118.0	(-)
	<i>FIGRA</i> _{0,4MJ} (W/s)		111.3	(-)
	<i>THR</i> _{600s} (MJ)		5.9	(-)
	<i>LFS</i>		no	Compliant
	<i>SMOGRA</i> (m ² /s ²)		2.4	(-)
	<i>TSP</i> _{600s} (m ²)		32.3	(-)
	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

Perforated POLAR PINE and Perforated BLACK TONED 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 use as acoustic panelling in buildings

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

- valid for product thickness as tested;
- valid only for product composition as tested;
- valid only for perforation geometry as tested;
- valid only for fire retardant birch plywood as tested
- valid only for veneers as tested;
- valid for coating systems as tested;
- valid for product mounting without air gap between product and substrate;
- product performance determined on wood frame structure with mineral wool filling and gypsum plasterboard secondary substrate and classification is valid for product mounting on wood or steel frames with stone wool substrate;
- product tested without standard horizontal and vertical joints.

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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Reviewed by



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