
„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: INVISIBLE® Acoustic Ceilings Scandinavia Ltd.

Address: Ahertajankuja 1 A, 13, 02100 Espoo, Finland.

Reg. No. 2825809-7.

Manufacturer and owner of classification report: INVISIBLE® Acoustic Ceilings Scandinavia Ltd.

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*).

Product name: VISIBLE™ Acoustic Spray.

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 VISIBLE™ Acoustic Spray in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

VISIBLE™ Acoustic Spray is defined as spray applied acoustical absorber on ceilings and walls. Product is not described by harmonised technical specification standard.

2.2. Product description

- Product name: VISIBLE™ Acoustic Spray.
- Product description: acoustic material.
- Manufacturer: INVISIBLE® Acoustic Ceilings Scandinavia Ltd.
- Materials used for manufacturing:
 - sprayed mixture of zero carbon acoustic spray, adhesive, water and flame retardant
 - 1st component of 2: VISIBLE™ Adhesive component 2.5 % of total mass.
 - 2nd component of 2: VISIBLE™ Adhesive additive - fire-retardant component 6 % of total mass.
- Nominal thickness tested: 10 mm.
- Density: 95 kg/m³.

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	INVISIBLE® Acoustic Ceilings Scandinavia Ltd	5374-1/2021	EN 13823:2020
SIA „Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	INVISIBLE® Acoustic Ceilings Scandinavia Ltd	5374-2/2021	EN ISO 11925-2:2020

3.3. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2020	$FIGRA_{0,2MJ}(W/s)$	3	97.5	(-)
	$FIGRA_{0,4MJ}(W/s)$		94.5	(-)
	$THR_{600s}(MJ)$		4.9	(-)
	LFS		(-)	Compliant
	$SMOGRA(m^2/s^2)$		Threshold not reached	(-)
	$TSP_{600s}(m^2)$		34.2	(-)
EN ISO 11925-2:2020	Flaming droplets <10s	12	(-)	Compliant
	Flaming droplets >10s		(-)	Compliant
	Flame spread (Fs)		(-)	Compliant
	Ignition of filter paper		(-)	Compliant
Exposure time 30 s. Test duration 60 s.			(-)	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

VISIBLE™ Acoustic Spray 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 spray applied acoustical absorber on ceilings and walls.

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

- Valid for thickness as tested;
- Valid for density range within $\pm 15\%$ of tested;
- Valid only for product composition as tested and all components mixed according manufacturer's instructions;
- Applied on any substrates of reaction to fire classes A2-s1,d0 and A1;
- Valid for product mounting without air gap between product and substrate;
- Valid for product application without joints;
- With and without additional coating.

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



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(signature and name)

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