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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® PLUS - Zero Carbon 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® PLUS - Zero Carbon Acoustic Spray in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1. General

VISIBLE® PLUS - Zero Carbon Acoustic Spray is defined as acoustical absorber on ceilings and walls. Product is not described by harmonised technical specification standard.

2.2. Product description

- Product name: VISIBLE® PLUS - Zero Carbon Acoustic Spray.
- Product description: Acoustic material.
- Manufacturer: INVISIBLE® Acoustic Ceilings Scandinavia Ltd.
- Materials used for manufacturing:
 - base material – VISIBLE® Zero Carbon Acoustic System made of recycled acoustic cellulose, adhesive and fire retardant;
 - cover material – INVISIBLE® Smooth Extra / fade® +Plus made of Perlite based acoustic plaster.
- Nominal thickness tested: 35 mm;
- Mass per unit area: 3 kg/m².

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	5784-1/2021	EN 13823:2020
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	INVISIBLE® Acoustic Ceilings Scandinavia Ltd	5784-2/2021	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)	3	48.8	(-)
	<i>FIGRA</i> _{0,4MJ} (W/s)		45.0	(-)
	<i>THR</i> _{600s} (MJ)		4.0	(-)
	<i>LFS</i>		(-)	Compliant
	<i>SMOGRA</i> (m ² /s ²)		3.8	(-)
	<i>TSP</i> _{600s} (m ²)		45.2	(-)
	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

VISIBLE® PLUS - Zero Carbon 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 mass per unit area tested;
- valid only for product composition as tested and all components mixed according to the manufacturer's instructions;
- applied on substrates of reaction to fire classes A2-s1,d0 and A1 material with a minimum density of 525 kg/m³;
- valid only for product structure as tested when insulating material is fully protected from direct flame source. Protecting construction should be used in the way that insulation material cannot be exposed to flame in end use application.
- valid for product mounting without air gap between product and substrate;
- valid for product application without joints;
- valid without additional coatings.

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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