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## Classification of reaction to fire in accordance with EN 13501-1:2018

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**Sponsor:** Søuld ApS.

Address: Hermodsgade 24, st, 2200 København N, Denmark.

Reg. No. 32841562.

**Manufacturer and owner of classification report:** Søuld ApS.

**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:** Søuld Acoustic Boards FR and Søuld Acoustic Mats FR.

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 Søuld Acoustic Boards FR and Søuld Acoustic Mats FR in accordance with the procedures given in EN 13501-1:2018.

## 2. Details of classified product

### 2.1. General

Søuld Acoustic Boards FR and Søuld Acoustic Mats FR is defined as fire retardant treated panelling system for buildings.

### 2.2. Product description

- Product name: Søuld Acoustic Boards FR (18 mm); Søuld Acoustic Mats FR (35 mm).
- Product description: acoustic mats and boards made of seagrass.
- Manufacturer: Søuld ApS.
- Materials used for manufacturing:
  - Eelgrass, binder, fire retardant
  - Eelgrass, binder, fire retardant
- Nominal thickness tested: 18 mm and 35 mm.
- Density: 18 mm –  $266 \text{ kg/m}^3 \pm 10\%$ ; 35 mm –  $137 \text{ kg/m}^3 \pm 10\%$ ;  
Surface density:  $4800 \text{ g/m}^2$  for 35 mm thickness and  $4800 \text{ g/m}^2$  for 18 mm thickness.

## 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	Søuld ApS	8826-1/2023	EN 13823:2020+A1:2022
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Søuld ApS	8826-2/2023	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> <sub>0,2MJ</sub> (W/s)	4	520.8	(-)
	<i>FIGRA</i> <sub>0,4MJ</sub> (W/s)		388.6	(-)
	<i>THR</i> <sub>600s</sub> (MJ)		18.5	(-)
	<i>LFS</i>		no	Compliant
	<i>SMOGRA</i> (m <sup>2</sup> /s <sup>2</sup> )		9.4	(-)
	<i>TSP</i> <sub>600s</sub> (m <sup>2</sup> )		88.9	(-)
	Flaming droplets <10s Flaming droplets >10s		yes (-)	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

Søuld Acoustic Boards FR and Søuld Acoustic Mats FR in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets/particles is:

d1

The format of the reaction to fire classification for construction product excluding floorings and linings is:

Fire behaviour		Smoke production			Flaming droplets	
D	-	s	2	,	d	1

**Reaction to fire classification: D-s2, d1**

### 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 thicknesses as tested;
- valid only for product composition as tested;
- valid for fire retardant as tested;
- valid without additional coating as tested;
- valid for mounting on wood based substrates of reaction to fire class D-s2,d0 and all A2-s1,d0 and A1 substrates having density at least 337 kg/m<sup>3</sup> and thickness at least 9 mm fixed with glue Turbo Tack 291 (manufacturer Dana Lim A/S);
- valid for product mounting with air gap between product and substrates of reaction to fire class A2-s1,d0 or A1 having density at least 525 kg/m<sup>3</sup> and thickness at least 12 mm and mounted with air gap constructed by wooden battens of class D-s2,d0 or better or any A1 or A2-s1,d0 product.
- product tested with standard horizontal and vertical joints;
- product has no orientation effect.

### 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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