

Reaction to Fire Classification Report

Name of client:	Søuld ApS		
Product name:	Acoustic Board FR		
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Client information

Client: Søuld ApS

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The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

1. Introduction

This classification report defines the classification assigned to the product "Acoustic Board FR" in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product "Acoustic Board FR" is used for thermal- and/or air born sound insulation in constructions. Acoustic Board FR can be applied on walls, ceilings, floors, roofs, between rafters and timber work. According to the client the product complies with EAD 040005-00-1201 "Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres."

2.2 Product description

The product "Acoustic Board FR" is defined as a construction material consisting of seaweed with a plastic based binder in form of boards. The material is treated with a flame retardant designated "Burnblock".

Further product specifications are known to DBI - Danish Institute of Fire and Security Technology and are filed under the file number below.

3. Reports and results in support of this classification.

3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method Field of application rules	Date
DBI	Søuld ApS	PFA12019A	EN ISO 11925-2:2020 EN 13823:2020 +A1:2022	2022-12-20 2022-12-19

3.2 Results

Test methods	Parameter	Number of tests ^a	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN 13823	FIGRA _{0.2 MJ} (W/s)	3	509	(-)
	FIGRA _{0.4 MJ} (W/s)	3	463	(-)
	THR _{600s} (MJ)	3	12	(-)
	SMOGRA (m ² /s ²)	3	5	(-)
	TSP _{600s} (m ²)	3	28	(-)
	LFS < edge	3	(-)	Y
	FDP _{f≤10s}	3	(-)	N
	FDP _{f>10s}	3	(-)	N
EN ISO 11925-2				
Surface flame attack, 30 s exposure	F _s ≤ 150 mm within 60 s.	6	(-)	Y
	No ignition of filter paper	6	(-)	Y
Edge flame attack, 30 s exposure	F _s ≤ 150 mm within 60 s.	6	(-)	Y
	No ignition of filter paper	6	(-)	Y
a Not for extended application Y "Compliant" (-) not applicable				

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11.4, 11.9 and 11.10 of EN 13501-1:2018.

4.2 Classification

The product "Acoustic Board FR" in relation to its reaction to fire behaviour is classified: D

The additional classification in relation to smoke production is: s1

The additional classification in relation to flaming droplets/particles is: d2

Reaction to fire classification:

D-s1, d2

4.3 Field of application

This classification is valid for the following end use conditions:


- any substrates of classes A1 and A2-s1,d0 of at least 12.5 mm thickness and with a density equal to or greater than 525 kg/m^3
- With the product glued to the substrate with "Turbo Tack 291" by DANA LIM A/S
- With no air gap
- With horizontal and vertical joints

This classification is valid for the following product parameters:


- With a nominal thickness of 18 mm
- With density as tested of $284 \text{ kg/m}^3 \pm 10 \%$
- No changes to the product's composition allowed.

5. Limitations

This classification document does not represent type approval or certification of the product.



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