DBI
FIRE AND SECURITY

Reaction to Fire
Classification Report

Name of client:	Søuld ApS		
Product name:	Søuld		
File no.:	PCA10748Arev1		
Date:	2021-10-01	**Revision no.:**	0
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Ref:	NSA / MPA		

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ilac-MRA DANAK TEST Reg.no.0012

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.

Revision chronology

Rev. no.	Date	Description	Author	Approved
0	2021-08-25		MPA	NSA
1	2021-10-01	Corrected 146 kg/m^2 to 146 kg/m3 in section 4.3 The client's datasheet on enclosure 2 has been revised with corrected density and thickness.	MPA	NSA

1. Introduction

This classification report defines the classification assigned to the product “Søuld” in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product “Søuld” is used for thermal- and/or air born sound insulation in constructions. Søuld boards 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 “Søuld” is defined as a construction material consisting of sea weed in form of boards. These boards are used for insulation of constructions. The material is treated with a flame retardant designated “Burnblock”. Data sheet and mounting instructions of the product given by the client are shown in enclosure 1-8.

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	PFA11771A	EN ISO 11925-2 EN 13823	2021-08-15 2021-08-05/09
		PFA11771B	EN 13823	2021-08-05/12

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)	6	380	(-)
	FIGRA $_{0.4\ MJ}$ (W/s)	6	207	(-)
	THR $_{600s}$ (MJ)	6	10.4	(-)
	SMOGRA (m^2/s^2)	6	6	(-)
	TSP $_{600s}$ (m^2)	6	47	(-)
	LFS < edge	6	(-)	Y
	$FDP_{f\leq 10s}$	6	(-)	N
	$FDP_{f>10s}$	6	(-)	Y
EN ISO 11925-2				
Surface flame attack, 30 s exposure	$F_s \leq 150$ mm within 60 s.	6	(-)	Y
	No ignition of filter paper	6	(-)	Y
Edge flame attack, 30 s exposure	$F_s \leq 150$ 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 “Søuld” in relation to its reaction to fire behaviour is classified: C

The additional classification in relation to smoke production is: s1

The additional classification in relation to flaming droplets/particles is: d1

Reaction to fire classification:

C-s1,d1

4.3 Field of application

The classification is valid for the following end use conditions:

- Any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³
- with the product fixed mechanically to the substrate
- with the product glued to the substrate
- with no air gap
- with horizontal and vertical joints

The classification is also valid for the following product parameters:

- When the product is glued to the substrate the following adhesive shall be used:
  Marine Bond & Seal 541, manufactured by DANA LIM A/S
- when the product is screwed to the substrate the mounting instructions in enclosure 6-7 shall be followed
- for boards with tested density of 146 kg/m^3 ± 15%
- with a nominal thickness of 35 mm ± 2 mm of the board
- with no changes allowed to the composition of the product listed in enclosure 2

5. Limitations

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

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