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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

MEMBER OF EOTA

European Technical Assessment ETA-21/1036 of 2021/12/17

General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	Søuld Acoustic Mats: Building
Product family to which the above construction product belongs:	Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres
Manufacturer:	Søuld Aps Storhavevej 4 DK-9940 Læsø Tlf: +45 93 805 810 www.sould.dk
Manufacturing plant:	Søuld Aps Storhavevej 4 DK-9940 Læsø
This European Technical Assessment contains:	5 pages
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 040005-00-1201 for Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres
This version replaces:	

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

Technical description of the product
Søuld Acoustic Mats: Building are manufactured from eelgrass formed into nonwoven mats using airlaid technology.

The mats are manufactured with the following dimensions:

	Value	Tolerance
Length	1100 mm	± 22 mm
Width	600 mm	± 9 mm
Thickness	35 mm	-1/+3 mm
Density	133 kg/m^3	± 6 kg/m^3

The mats are not faced.

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

Søuld Acoustic Mats: Building are intended for airborne sound insulation for interior wall or ceiling applications. The mats can be installed using screws or mounted directly on a surface using adhesive.

It is assumed that the product will be installed according to the manufacturer's instructions or (in absence of such instructions) according to the usual practice of the building professionals.

The airborne sound insulation mats shall not be used in structures where it will be exposed to wetting or weathering and in such with direct contact to soil.

The installation is carried out by appropriate personnel which have adequate experience in installing the material under the supervision of the person responsible for technical matters on site.

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with the ETA-Danmark A/S, which identifies the product that has been assessed.

Changes to the product or manufacturing process, which could result in this deposited data/information being incorrect, should be notified to the ETA-Danmark A/S before the changes are introduced.

ETA-Danmark A/S will decide whether or not such changes affect the European Technical Assessment and consequently the validity of the CE marking on the basis of the European Technical Assessment and if so whether further assessment or alterations to the European Technical Assessment, shall be necessary.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic
3.2 Safety in case of fire (BWR 2)	
Reaction to fire	Søuld Acoustic Mats: Building are classified as **C-s1,d1**. 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 mats fixed mechanically to the substrate - with the mats 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 mats are glued to the substrate the following adhesive shall be used: - Marine Bond & Seal 541, manufactured by DANA LIM A/S • when the mats are screwed to the substrate the mounting instructions in enclosure 6-7 shall be followed - for mats with tested density of 146 kg/m^3 ± 15% - with a nominal thickness of 35 mm ± 2 mm of the mats - with no changes allowed to the composition of the mats listed in section II.1 of this ETA
3.3 Hygiene, health and the environment (BWR 3)	
Biological resistance	On test specimens of Søuld Acoustic Mats: Building the fungal growth is covering less than 25% of the surface of each specimen, equal to a rating of 2 in accordance with EN ISO 846
3.4 Safety in use (BWR 4)	
Corrosion developing capacity	Not relevant for airborne sound insulation products
3.5 Protection against noise (BWR 5)	
Specific airflow resistivity	No performance assessed
Dynamic stiffness	Not relevant for airborne sound insulation products
Impact sound reduction	Not relevant for airborne sound insulation products
Compressibility	Not relevant for airborne sound insulation products

Characteristic	Assessment of characteristic
Sound absorption	The sound absorption coefficients and absorption class are given in the below table:

No.	Test object	Area of test object	Sound absorption coefficient							
		[m^2]	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	α_w NRC SAA	Abs. class
A1	Søuld, 35 mm coated panel. Directly mounted. Surface weight: 4.800 g/m^2	10,5	0,15	0,55	1,00	1,00	1,00	1,00	0,85 0,90 0,88	B(MH)
A2	Søuld, 35 mm coated panel. Mounted on 12 mm MDF lists. Surface weight: 4.800 g/m^2	10,5	0,20	0,65	1,00	1,00	1,00	1,00	0,95 0,90 0,93	A
A3	Søuld, 35 mm coated panel. Mounted on 25 mm MDF lists. Surface weight: 4.800 g/m^2	10,5	0,25	0,80	1,00	1,00	1,00	1,00	1,00 0,95 0,95	A
A4	Søuld, 35 mm coated panel. Mounted on 40 mm MDF lists. Surface weight: 4.800 g/m^2	10,5	0,45	0,85	1,00	1,00	1,00	1,00	1,00 0,95 0,96	A

3.6 Energy economy and heat retention (BWR 6)	No performance assessed

4 Assessment and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 1999/91/EC of the European Commission1, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 1 due to the reaction to fire classification.

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking

Issued in Copenhagen on 2021-12-17 by

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Managing Director, ETA-Danmark