Søuld Acoustic Boards FR

MATERIAL DATA SHEET

PRODUCT INFORMATION

Trade Name	Søuld Acoustic Boards FR
Supplier	Søuld ApS
Product Type	Acoustic absorbent: Flame Retardant
Application	Interior acoustic panels
Mounting	Adhesive - see See sould.dk

COMPOSITION OF INGREDIENTS

Ingredients	Function	Origin
Eelgrass	Matrix	Denmark
Flame retardant	Fire protection	Denmark
Bi-component fibre	Binder	Denmark

DIMENSIONS AND DENSITY

Parameter	Thickness [mm]	Length [mm]	Width [mm]	Density [kg/ m³]
Standard sizes	18	1100	600/1500/3000	266
Custom size	18	≤ 1100	≤ 3000	266
Tolerances	-3/+8 %	± 2,0 %	± 1,5 %	± 10 %

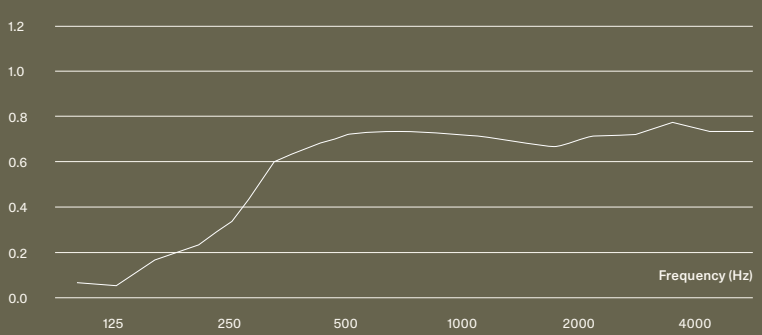
Søuld Acoustic Boards FR are made using a natural material. Therefore, minor variations in the mats moisture content and dimensions may occur. Depending on the relative air humidity and temperature, the material expands and contracts continuously. Minor variations should be accepted as the Acoustic Boards FR respond to changing indoor conditions throughout the seasons. It is important to follow Søuld's instructions for product installation, storage and acclimatisation to achieve optimal results.

ACOUSTIC PERFORMANCE

ASTM C423-17 & INDICATIVE ISO 11654

Installation Method		aw	NRC	SAA	Class
Direct mounted on concrete wall/ceiling	0 mm air gap	-	0,65	0,63	Indicative C

Sound Absorption Coefficient



REACTION TO FIRE

Installation Guide	Installation Method	Standard	Class
See sould.dk	Glued	EN 13501-1	D-s1,d2 / D-s2,d1
-	Unadhered	ASTM E84	Class I or A rating

CRADLE TO CRADLE

VERSION 4.1

Parameter	SER [µg/(m²h)]	Classroom [µg/m³]	Office [µg/m³]	Result
C2C Certified® Full Scope Certificate				Gold level
C2C Certified® Material Health Certificate				Gold level
C2C Certified® Circularity Certificate				Gold level
TVOC	25	12	39	Pass
Formaldehyde	< 3	< 2	< 5	Pass
Acetaldehyd	11	5.5	18	Pass

EPD (ENVIRONMENTAL PRODUCT DECLARATION)

ISO 14025/EN 15804

Parameter	Unit	A1: Raw material	A2: Transport	A3: Manufacturing	A1-A3: Sum
GWP – Total	[kg CO_2-eq/m²]	-2,7	0,2	0,8	-1,8
GWP – Fossil	[kg CO_2-eq/m²]	1,9	0,2	0,7	2,8
GWP – Biogenic	[kg CO_2-eq/m²]	-4,6	0,0	0,1	-4,5
GWP – Luluc	[kg CO_2-eq/m²]	0.0	0,0	0,0	0.0

Download full EPD

PRODUCTION & RECYCLABILITY

Production location	Denmark
Waste in production	Can be recycled
Recyclability	Recyclable
Warranty	2-year product warranty, subject to Søuld's Installation Instructions and Terms.

APPEARANCE AND ODOUR

Color	Bright Warm Brown
Odour	Subtle wind and sea

Søuld Acoustic Boards FR are made from a natural material with no additional dyes. Therefore, slight colour and structure variations may occur. If consistent colour and structure matching is required for the installation, please use products from the same pallet or the same production batch. All mats will be delivered untreated - without a sealing. That's to keep the natural characteristics of the eelgrass regarding scent, haptics and optics alive. The ageing of the surfaces through UV-light is a natural process. Please note that newly manufactured and freshly cut Acoustic Mats will impart a subtle, natural scent of the sea which decreases over time.