

Søuld

Sustainable building materials made
from eelgrass for healthy living.

General Installation Instructions

1. INTRODUCTION

Søuld Acoustic Mats are made primarily of eelgrass, a natural material that expands and contracts in response to air humidity and temperature. The organic matter is inherently variable, leading to slight fluctuations in the mats' dimensions and weight as the mats adjust to changing conditions. It is therefore important to carefully follow Søuld's instructions for correct storage, acclimatisation and installation.

2. PREPARATION & INSPECTION

Søuld's Installation Instructions are provided as a guide for the installer, and it is the installer's responsibility to complete all necessary preparation. For optimal results the installer must properly assess the conditions of the building and installation surfaces, select the appropriate suppliers/contractors, and carefully follow Søuld's instructions.

Before beginning the installation, the installer must check the Søuld products they have received and notify Søuld immediately if there are any product defects or non-conformities. Søuld is not responsible for any product adjustments, repairs or replacements after installation.

3. TRANSPORTATION & STORAGE

- For transport, Søuld recommends loading a maximum of 10x Søuld Acoustic Mats per pallet.
- When loading the mats, place and stack them with the more porous front side facing upwards.
- Søuld Acoustic Mats must remain flat during transportation and storage. They must be stacked according to their dimensions and mounted on supports to ensure easy handling and lifting and to avoid damaging the material at delivery. The edges must be protected whenever the material is handled, especially when unpacking it.
- Søuld's products waiting to be installed should be stored in original packing in a climate-controlled environment without high temperature and relative humidity levels, always avoiding sudden changes in these conditions.

4. ACCLIMATISATION

- Before beginning installation, Søuld's products must be unpacked and left to acclimatise to the final temperature and humidity conditions of the room/building for a minimum of 2 weeks.
- To achieve optimal product acclimatisation, distribute the mats separately (not stacked) throughout the site of installation.
- During acclimatisation, the mats will adapt to the temperature and humidity conditions that are expected to be present in the use phase of the room/building.
- Lack of acclimatisation could result in changes to the Acoustic Mats dimensions, weight and performance.

5. SURFACE CONDITIONS

- Clean and smooth the installation surfaces before mounting Søuld products. Remove dust, loose particles, dirt and grease. Smooth any rough areas and fill any holes so that the surfaces have a uniform, even

level with a maximum surface variation of +/- 2 mm. Be extra careful with painted surfaces to ensure there are no flakes or chipping paint.

- Surfaces must be completely dry before installation. Never install Søuld products on a freshly painted surface.
- Do not install Søuld Acoustic Mats in wet rooms, bathrooms or near kitchen sinks.
- To meet Søuld's Acoustic Mats C-s1,d1 fire classification, installation surfaces must meet the following end-use conditions: Substrates of classes A1 and A2-s1,d0 with at least 12mm thickness and a minimum density of 525 kg/m³.

6. CUTTING

- Søuld Acoustic Mats are easy to cut using a table saw, circular saw or equal.
- It is recommended to use a sharp blade to minimize frayed edges.
- Only cut one mat at a time.

7. SAFETY

- It is necessary to use a mechanical ventilation system or wear a protective face mask when cutting and installing Søuld Acoustic Mats. This is to protect from the dust and particles that may be emitted.

8. MAINTENANCE

- Søuld Acoustic Mats are robust and durable products designed for interior wall or ceiling application. However, to preserve the life of the products, Søuld Acoustic Mats should be not installed in high-traffic, humid or dirty environments.
- After installation and during everyday use, gently clean Søuld products with a soft duster to remove dust and particles.
- To perform a deeper clean, use a vacuum cleaner with a brush attachment, sweeping lightly across the product surfaces. To avoid loosening the product fibres, do not apply too much pressure or drag cleaning equipment across the surfaces.
- Do not use scouring pads or any sharp/rough cleaning equipment that could fray the surfaces. Avoid banging or dragging objects across the surfaces.
- Do not use commercial cleaning products. Do not use alcohol, stain removers, thinners, acetone, trichloroethylene, ammonia, bleach, vinegar, anti-limescale cleaners, powder cleaners or detergents, or any other products that contain these substances.

9. REPAIRS

- Søuld's eelgrass mats have a consistent fibrous structure throughout the interior and surface. Hence, minor damages to the surface typically don't impact the appearance of the mats. Mats with significant damage will need to be replaced, as it is not possible to repair damaged mats.

10. REUSE, RECYCLING & DISPOSITION

- Søuld's Acoustic Mats are designed to be fully circular.
- By agreement with the customer, Søuld can take back used Søuld products, shred them down and recycle the fibres. The recycled fibres can be blended into standard Søuld products or used as a base for second-generation Søuld materials.
- Used Søuld products that are not returned to Søuld can be disposed of via combustion at heating plants.

Mounting with Screws

MATS FRONT & BACK

Due to the production process, the front and back sides of Søuld's Acoustic Mats have a slightly different texture. The front side is the most porous. The back side is harder and more compressed. Søuld always recommends installing the mats with the front side facing outwards, into the space. It is important to note that if Søuld Acoustic Mats are installed with the back side facing outwards, the material's performance specifications will not be fulfilled.

SELECTING SCREWS

Mounting screws should be selected according to the conditions of each specific installation site, including the type of walls or ceilings. Søuld generally recommends corrosion-treated steel or brass screws with a wide and flat head, plus a washer.

Due to the high salt content of Søuld's eelgrass materials, the steel screws should be protected with a C5 (or Danish A4) class. Søuld recommends selecting screws that are black or a similar colour to the Acoustic Mats, or for a subtle colour contrast, select corrosion-protected burnished brass screws.

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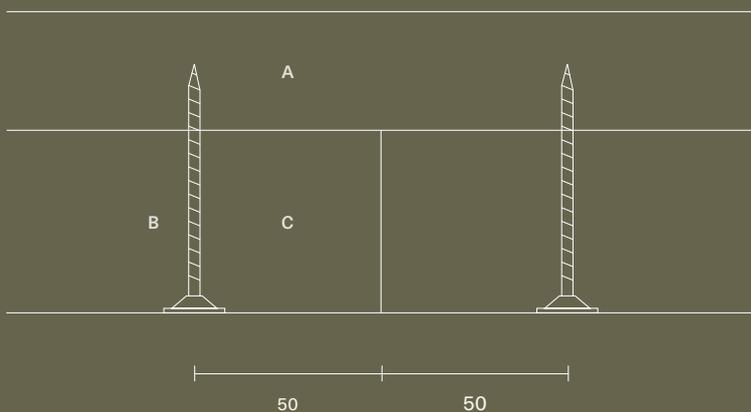
INSTRUCTIONS

1. Read and follow steps 1 through 6 of Søuld's General Instructions before proceeding with the Mounting Instructions. Pay careful attention to acclimatisation, surface preparation and safety.
2. Select the necessary equipment for mounting with screws.
3. Position the mats in the desired positions, then mark the wall or ceiling with a pencil to form a mounting guide. If needed, position and mark drill holes for wall plugs.
4. Before mounting all the mats, mount one mat to ensure the desired outcome.
5. When inserting the screws, do not force or push the screws in too deep as this will deform the material. The screws should be gently tightened, just enough to hold the mats to the walls or ceilings.
6. Mount the mats to the walls or ceiling one-by-one and row-by-row, starting from the lower levels. Ensure the first row is perfectly aligned before moving on to the next row. Søuld recommends mounting the mats with the front side facing outwards into the space.
7. Once all the mats are mounted, check if all the screws are evenly placed and adjust if needed. Loosen any screws that are too tight.

INSTALLATION INSTRUCTIONS

MOUNTING DIRECTLY ON WALL/CEILING

Technical Drawing

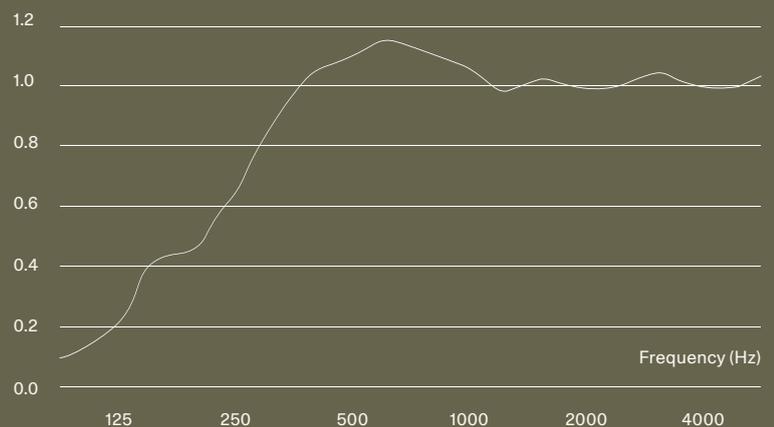


A	Ceiling/wall *	Screws/panel	Min. 8
B	Screw	Cc	Max 350 mm
C	Søuld	From edge to screw	50 mm

* Min. fire class A2-s1,d0

ACOUSTIC PERFORMANCE

Sound Absorption Coefficient



aw	0,85
NRC	0,90
SAA	0,88
Class	(B/MH)

Mounting with Glue

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RECOMMENDED GLUES

Danalim - Marine Bond & Seal 541 or similar. NOTE: Be very careful not to get glue on the front of Søuld's Acoustic Mats, as this cannot be removed with a satisfactory result.

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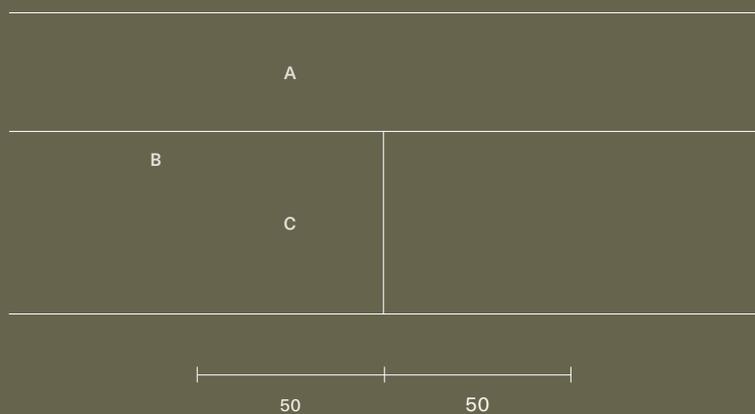
INSTRUCTIONS

1. Read and follow steps 1 through 6 of Søuld's General Instructions before proceeding with the Mounting Instructions. Pay careful attention to acclimatisation, surface preparation and safety.
2. Select the necessary equipment for mounting with glue.
3. Position the mats in the desired positions, then mark the wall or ceiling with a pencil to form a mounting guide.
4. Before mounting all the mats, mount one mat to ensure the desired outcome.
5. Apply the glue as strips on the backside of the mats. The strips of glue should be approx. 8 mm in diameter and should be placed approx. 100 mm apart.
6. After applying the glue, carefully place the mats in their desired positions on the walls or ceilings, and carefully press the mats into place.
7. Mount the mats to the walls or ceilings one-by-one and row-by-row, starting from the lower levels. Ensure the first row is perfectly aligned before moving on to the next row. Søuld recommends mounting the mats with the front side facing outwards into the space.
8. Leave the mats to dry for 24-48 hours and do not touch or move the mats during drying time.

INSTALLATION INSTRUCTIONS

MOUNTING DIRECTLY ON WALL/CEILING

Technical Drawing

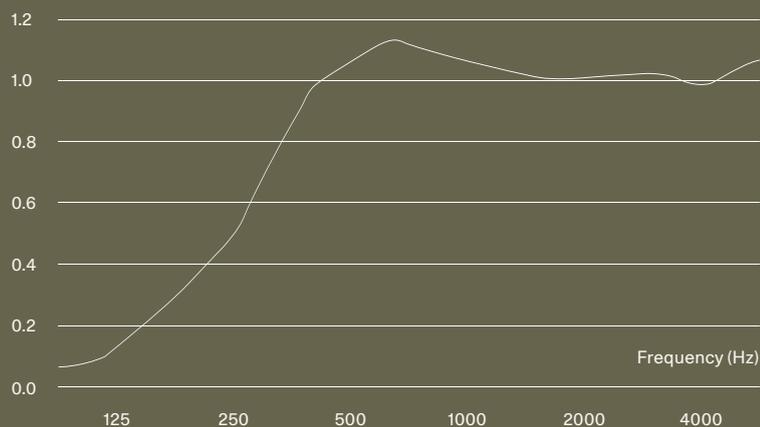


A	Ceiling/wall *
B	Glue
C	Søuld

* Min. fire class A2-s1,d0

ACOUSTIC PERFORMANCE

Sound Absorption Coefficient



aw	0,85
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