

### PRODUCT INFORMATION

|              |                                     |
|--------------|-------------------------------------|
| Trade Name   | Søuld Acoustic Mats FR              |
| Supplier     | Søuld ApS                           |
| Product Type | Acoustic absorbent; Flame retardant |
| Application  | Interior wall or ceiling claddings  |
| Mounting     | Adhesive or screws                  |

### COMPOSITION OF INGREDIENTS

| Ingredients        | Function        | Supplier    | Origin  |
|--------------------|-----------------|-------------|---------|
| Eelgrass           | Matrix          | Farmers     | Denmark |
| Flame retardant    | Fire protection | Burnblock   | Denmark |
| Bi-component fibre | Binder          | Fibervision | Denmark |

### CE MARKING AND ETA

|                   |                    |   |
|-------------------|--------------------|---|
| European standard | EAD 040005-00-1201 | Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibers |
|-------------------|--------------------|---|

### DIMENSIONS AND DENSITY

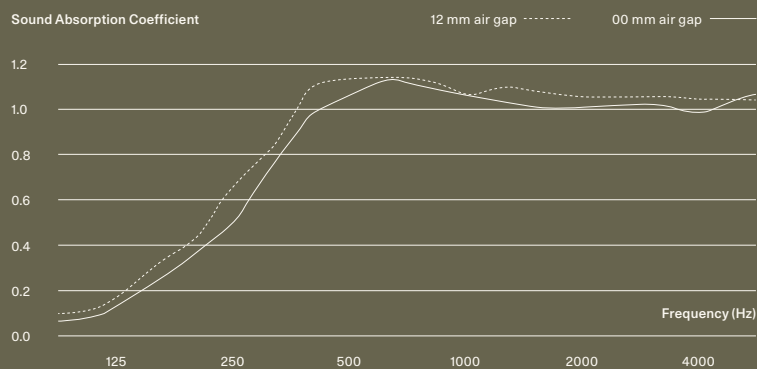
| Parameter      | Thickness [mm] | Length [mm] | Width [mm]    | Density [kg/ m <sup>3</sup> ] |
|----------------|----------------|-------------|---------------|-------------------------------|
| Standard sizes | 35             | 1100        | 600/1500/3000 | 137                           |
| Custom size    | 35             | ≤ 1100      | ≤ 3000        | 137                           |
| Tolerances     | -3/+8 %        | ± 2,0 %     | ± 1,5 %       | ± 10 %                        |

Søuld Acoustic Mats 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 Mats 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

DS/EN ISO 354, DS/EN ISO 11654

| Installation Method                             | aw            | NRC  | SAA  | Class |       |
|---|---------------|------|------|-------|-------|
| Direct mounted on concrete wall/ceiling         | 00 mm air gap | 0,85 | 0,90 | 0,88  | B(MH) |
| Air slot between Concrete Wall and Acoustic Mat | 12 mm air gap | 0,95 | 0,90 | 0,93  | A     |



### REACTION TO FIRE

| Installation Guide | Installation Method | Standard   | Class                          |
|--------------------|---------------------|------------|--------------------------------|
| See sould.dk       | Glued               | EN 13501-1 | D-s1,d1                        |
| See sould.dk       | Glued / Screwed     | EN 13501-1 | C-s1,d1 Only for custom orders |

### DANISH INDOOR CLIMATE LABEL

DICL CRITERIA

| Parameter           | Unit                 | Time                 | Result  | DICL criteria | Evaluation |
|---------------------|----------------------|----------------------|---------|---------------|------------|
| TVOC                | [mg/m <sup>3</sup> ] | 28 days              | 0,140   | ≤ 1,0         | Pass       |
| Formaldehyde        | [µg/m <sup>3</sup> ] | 28 days              | < 0,005 | ≤ 1,0         | Pass       |
| CMR compounds       | [mg/m <sup>3</sup> ] | 28 days              | < 0,001 | < 0,001       | Pass       |
| Odour acceptability | n.a.                 | 29 days              | -       | -             | -          |
| Particle emission   | [mg/m <sup>3</sup> ] | adv. of 3 & 15 hours | 0,28    | ≤ 0,75        | Low        |

### CRADLE TO CRADLE

VERSION 3.1

|                              |                |
|------------------------------|----------------|
| Cradle to Cradle Certified®  | Gold level     |
| Material Health Certificate™ | Platinum level |

### EPD (ENVIRONMENTAL PRODUCT DECLARATION)

ISO 14025/EN 15804

| Parameter      | Unit                                     | A1: Raw material | A2: Transport | A3: Manufacturing | A1-A3: Sum |
|----------------|--|------------------|---------------|-------------------|------------|
| GWP – Total    | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | -2,7             | 0,2           | 0,8               | -1,8       |
| GWP – Fossil   | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | 1,9              | 0,2           | 0,7               | 2,8        |
| GWP – Biogenic | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | -4,6             | 0,0           | 0,1               | -4,5       |
| GWP – Luluc    | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | 0,0              | 0,0           | 0,0               | 0,0        |

[Download full EPD](#)

### PRODUCTION & RECYCLABILITY

|                     |                  |
|---------------------|------------------|
| Production location | Thisted, Denmark |
| Waste in production | Can be recycled  |
| Recyclability       | Recyclable       |

### APPEARANCE AND ODOUR

|       |                     |
|-------|---------------------|
| Color | Warm browns         |
| Odour | Subtle wind and sea |

Søuld Acoustic Mats 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.

### PRODUCT INFORMATION

|              |   |
|--------------|---|
| Trade Name   | Søuld Acoustic Mats                     |
| Supplier     | Søuld ApS                               |
| Product Type | Acoustic absorbent: Non-flame retardant |
| Application  | Interior acoustic panels                |
| Mounting     | Adhesive, screws or mechanical fixtures |

### COMPOSITION OF INGREDIENTS

| Ingredients        | Function | Supplier    | Origin  |
|--------------------|----------|-------------|---------|
| Eelgrass           | Matrix   | Farmers     | Denmark |
| Bi-component fibre | Binder   | Fibervision | Denmark |

### DIMENSIONS AND DENSITY

| Parameter      | Thickness [mm] | Length [mm] | Width [mm]    | Density [kg/ m <sup>3</sup> ] |
|----------------|----------------|-------------|---------------|-------------------------------|
| Standard sizes | 40             | 1100        | 600/1500/3000 | 120                           |
| Custom size    | 40             | ≤ 1100      | ≤ 3000        | 120                           |
| Tolerances     | -3/+8 %        | ± 2,0 %     | ± 1,5 %       | ± 10 %                        |

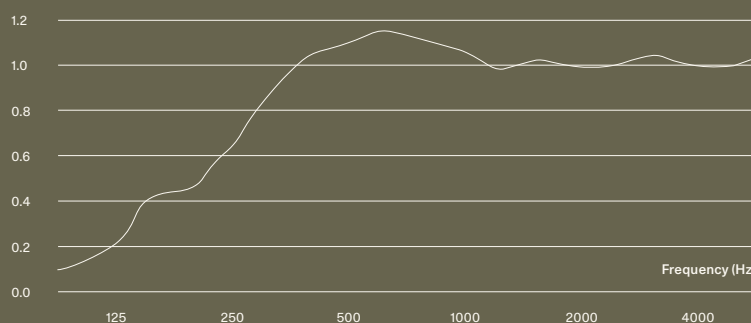
Søuld Acoustic Mats are made using a natural material. Therefore, minor variations in the mats moisture content and dimensions may occur. Depending on the relative air humidity and temperature, the material expands and contracts continuously. Minor variations should be accepted as the Acoustic Mats respond 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

DS/EN ISO 354, DS/EN ISO 11654

| Installation Method                     | aw           | NRC  | SAA  | Class |   |
|---|--------------|------|------|-------|---|
| Direct mounted on concrete wall/ceiling | 0 mm air gap | 0,95 | 0,90 | 0,92  | A |

### Sound Absorption Coefficient



### REACTION TO FIRE

EN 13501-1

| Installation Method                              | Standard | Class |
|--|----------|-------|
| No reaction to fire performances are determined. |          |       |

### DANISH INDOOR CLIMATE LABEL

DICL CRITERIA

| Parameter           | Unit                 | Time                 | Result  | DICL criteria | Evaluation |
|---------------------|----------------------|----------------------|---------|---------------|------------|
| TVOC                | [mg/m <sup>3</sup> ] | 28 days              | 0.140   | ≤ 1.0         | Pass       |
| Formaldehyde        | [µg/m <sup>3</sup> ] | 28 days              | < 0.005 | ≤ 1.0         | Pass       |
| CMR compounds       | [mg/m <sup>2</sup> ] | 28 days              | < 0.001 | < 0.001       | Pass       |
| Odour acceptability | n.a.                 | 29 days              | -       | -             | -          |
| Particle emission   | [mg/m <sup>2</sup> ] | adv. of 3 & 15 hours | 0.28    | ≤ 0.75        | Low        |

[Download full EPD](#)

### CRADLE TO CRADLE

VERSION 3.1

|                              |                |
|------------------------------|----------------|
| Cradle to Cradle Certified®  | Gold level     |
| Material Health Certificate™ | Platinum level |

### EPD (ENVIRONMENTAL PRODUCT DECLARATION)

ISO 14025/EN 15804

| Parameter      | Unit                                     | A1: Raw material | A2: Transport | A3: Manufacturing | A1-A3: Sum |
|----------------|--|------------------|---------------|-------------------|------------|
| GWP – Total    | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | -4,3             | 0,2           | 0,5               | -3,6       |
| GWP – Fossil   | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | 1,5              | 0,2           | 0,4               | 2,0        |
| GWP – Biogenic | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | -5,7             | 0,0           | 0,1               | -5,6       |
| GWP – Luluc    | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | 0.0              | 0,0           | 0,0               | 0.0        |

### PRODUCTION & RECYCLABILITY

|                     |                  |
|---------------------|------------------|
| Production location | Thisted, Denmark |
| Waste in production | Can be recycled  |
| Recyclability       | 100% recyclable  |

### APPEARANCE AND ODOUR

|       |                          |
|-------|--------------------------|
| Odour | Subtle wind and sea      |
| Color | Muted greens/warm browns |

Søuld Acoustic Mats 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.

### PRODUCT INFORMATION

|              |   |
|--------------|---|
| Trade Name   | Søuld Acoustic Boards FR                |
| Supplier     | Søuld ApS                               |
| Product Type | Acoustic absorbent: Flame Retardant     |
| Application  | Interior acoustic panels                |
| Mounting     | Adhesive, screws or mechanical fixtures |

### COMPOSITION OF INGREDIENTS

| Ingredients        | Function        | Supplier    | Origin  |
|--------------------|-----------------|-------------|---------|
| Eelgrass           | Matrix          | Farmers     | Denmark |
| Flame retardant    | Fire protection | Burnblock   | Denmark |
| Bi-component fibre | Binder          | Fibervision | Denmark |

### DIMENSIONS AND DENSITY

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

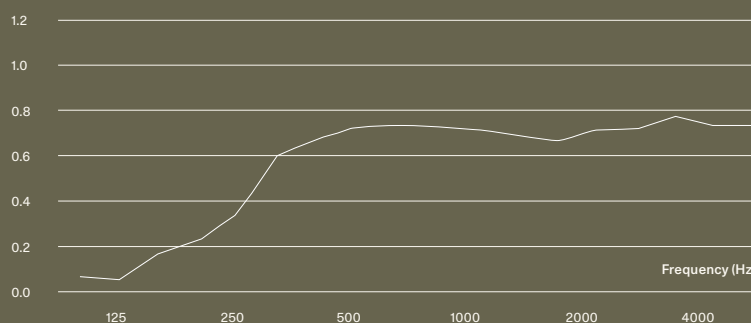
Søuld Acoustic Boards are made using a natural material. Therefore, minor variations in the mats moisture content and dimensions may occur. Depending on the relative air humidity and temperature, the material expands and contracts continuously. Minor variations should be accepted as the Acoustic Boards 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 |

### EPD (ENVIRONMENTAL PRODUCT DECLARATION)

ISO 14025/EN 15804

| Parameter      | Unit                                     | A1: Raw material | A2: Transport | A3: Manufacturing | A1-A3: Sum |
|----------------|--|------------------|---------------|-------------------|------------|
| GWP – Total    | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | -2,7             | 0,2           | 0,8               | -1,8       |
| GWP – Fossil   | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | 1,9              | 0,2           | 0,7               | 2,8        |
| GWP – Biogenic | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | -4,6             | 0,0           | 0,1               | -4,5       |
| GWP – Luluc    | [kg CO <sub>2</sub> -eq/m <sup>2</sup> ] | 0,0              | 0,0           | 0,0               | 0,0        |

[Download full EPD](#)

### CRADLE TO CRADLE

VERSION 3.1

|                              |                |
|------------------------------|----------------|
| Cradle to Cradle Certified®  | Gold level     |
| Material Health Certificate™ | Platinum level |

### PRODUCTION & RECYCLABILITY

|                     |                  |
|---------------------|------------------|
| Production location | Thisted, Denmark |
| Waste in production | Can be recycled  |
| Recyclability       | Recyclable       |

### 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.