PARAFON Decibel Barrier

Certification Number
0809-CPR-1013 / Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland

Short Description
PARAFON Decibel Barrier is installed vertically in the plenum above the partitioning wall and reinforces effectively the sound insulation via the suspended ceiling. Can be used as a single or double in combination with PARAFON Decibel sound insulating suspended ceilings. Decibel Barrier is manufactured in non-combustible stone wool and has an aluminium layer on the front and glass-fibre felt on the back, the product is not visible after installation.

Usage Conditions
May be used continuously in 95 % relative humidity at a temperature of 30 °C, occasionally also at 100 % and 40 °C.

Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Thickness</th>
<th>Width x Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40 mm</td>
<td>1200 x 900 mm</td>
<td>4,8 kg/m²</td>
</tr>
</tbody>
</table>

Other format possible upon request.

Packaging
Package Type
Pallet

Fire Properties

<table>
<thead>
<tr>
<th>Reaction to Fire</th>
<th>Value</th>
<th>According to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction to Fire, Euroclass</td>
<td>A1</td>
<td>EN 13964:2014 (EN 13501-1)</td>
</tr>
</tbody>
</table>
Sound Properties

- Direct Sound Insulation: Single slabs: $R_w 21$ dB and Double slabs: $R_w 36$ dB

Mechanical Properties

- **Tensile/Flexural Strength**
  - Property: Flexural Tensile Strength
  - Value: NPD
  - According to: EN 13964:2014

- **Other Mechanical Properties**
  - Property: Shatter Properties
  - Value: NPD
  - According to: EN 13964:2014

Emissions

- Property: Emission Indoor Climate
  - Value: M1
  - According to: Finnish Classification

Release of Dangerous Substances to the Indoor Environment

- Property: Release of Formaldehyde
  - Value: E1
  - According to: EN 13964:2014

- Property: Release of Asbestos
  - Value: No content of asbestos
  - According to: EN 13964:2014

Durability

- Durability of Reaction to Fire Against Heat, Weathering: The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.

Facings

- Facing Material: Aluminium foil on front side, glass fiber tissue on back side.

Edges

- Treatment of Edges: Untreated

More Information

- Edge: Square

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Installation

Install vertically above the partition wall. All gaps and joints will be clogged and then sealed with air tight tape.

Maintenance

Using a soft brush, by vacuum cleaning or by wiping with a damp cloth or sponge.

Disposal and Recycling

May be used as thermal insulation or taken to a dump. No restrictions.

Sound Absorption Curves

Direct sound insulation ($R_w$) is measured according to SS-EN ISO 10140 and calculated according to SS-EN ISO 717-1. Sound insulation via suspended ceiling ($D_{n,f,w}$) is measured according to SS-EN ISO 10848 and calculated according to SS-EN ISO 717-1.