PARAFON Decibel Light

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

Short Description
PARAFON Decibel Light has a core of non-combustible stone wool and an aluminium membrane at the back and satisfies the lower requirements on sound insulation via the suspended ceiling. In combination with PARAFON Decibel Barrier installed vertically in the plenum, or the sound absorbing PARAFON Bass placed on top of the suspended ceiling, the sound insulation with Decibel Light can be reinforced significantly if required.

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>Thickness</th>
<th>Width x Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edge A:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40 mm</td>
<td>600 x 600 mm</td>
<td>4,9 kg/m²</td>
</tr>
<tr>
<td>40 mm</td>
<td>600 x 1200 mm</td>
<td>4,9 kg/m²</td>
</tr>
<tr>
<td>Edge E24:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40 mm</td>
<td>600 x 600 mm</td>
<td>5,9 kg/m²</td>
</tr>
</tbody>
</table>

Packaging

Package Type
Carton

Fire Properties

Reaction to Fire
### Sound Properties

**Acoustic Absorption Index**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>According to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Absorption $\alpha_w$, Construction Depth 200 mm</td>
<td>0.90</td>
<td>EN 13964:2014 (EN ISO 354 / EN ISO 11654)</td>
</tr>
</tbody>
</table>

**Practical Sound Absorption Class**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>According to</th>
</tr>
</thead>
</table>

**Sound Reduction**

$R_w = 21$ dB (SS-EN ISO 10140/ SS-EN ISO 717-1), $D_{n,f,w}$ 35 dB (SS-EN ISO 10848 / SS-EN ISO 717-1)

### Mechanical Properties

**Tensile/Flexural Strength**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>According to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Tensile Strength</td>
<td>NPD</td>
<td>EN 13964:2014</td>
</tr>
</tbody>
</table>

**Other Mechanical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>According to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shatter Properties</td>
<td>NPD</td>
<td>EN 13964:2014</td>
</tr>
</tbody>
</table>

### Emissions

**Release of Dangerous Substances to the Indoor Environment**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>According to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release of Formaldehyde</td>
<td>E1</td>
<td>EN 13964:2014</td>
</tr>
<tr>
<td>Release of Asbestos</td>
<td>No content of asbestos</td>
<td>EN 13964:2014</td>
</tr>
</tbody>
</table>

### Durability

**Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation**

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**

Pre painted glass fiber surface layer.

**Backside**

Aluminium foil.

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Gloss Factor
Exclusive: 2 Classic: 2 Black: 0.5
Light Reflectance
Exclusive: ~85 % Classic: ~83 %
Black: ~4 %

Colours
Also possible: Colortone free NCS color

Edges
Treatment of Edges
Edge A are thin spray painted, Edge E painted.

Edge Variations

Installation
Installation with Armstrong Prelude suspension system.

Suspension Height

Minimum suspension height for removal

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
The sound absorption is measured according to ISO 354. The absorption values and classes are calculated according to ISO 11654. NRC according to ASTM C 423. Direct sound insulation (Rw) is measured according to SS-EN ISO 10140 and calculated according to SS-EN ISO 717-1. Sound insulation via suspended ceiling (Dn,w) is measured according to SS-EN ISO 10848 and calculated according to SS-EN ISO 717-1.
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