## TECHNICAL DATA SHEET

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<table>
<thead>
<tr>
<th>Designation</th>
<th>Surface Form</th>
<th>Material</th>
<th>Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acoustic Absorber SH002</td>
<td>Convoluted (egg crate) Rectangle</td>
<td>Open celled polyurethane acoustic foam</td>
<td>Anthracite, light grey, raspberry red, orange</td>
</tr>
</tbody>
</table>

### Convoluted acoustic foam absorber SH002

Highly effective sound absorber manufactured from acoustic foam

The stated data are averages, which have been calculated to the best of our knowledge. Because these data are subject to change within the established specification, they are to be regarded as non-binding. Liability for damages and losses of every type is excluded. The data do not exempt the buyer from carrying out his own tests and trials. We reserve the right to make technical changes and updates.
The Acoustic Absorber SH002 is highly effective in terms of sound insulation and sound absorption. The sound absorbing element can be used flexibly in many different application areas through the individual choosable basic material (available in different fire protection classes and colors) and different material thicknesses.

Properties

- Outstanding acoustic properties
- Attractive appearance with convoluted surface
- Conversion of sound into thermal energy based on open celled pore structure
- Professional acoustic solution for various application areas
- Creative design versatility through different formats, thicknesses and colors
- Equally suitable for wall and floor assembly
- Available with optional flame retardant additive in different fire protection classes
- Made of special acoustic foam that, compared to conventional foams within xenon tests, take a considerably longer time until showing colour changes, thus have superior light ageing properties.
- Free of mineral fibre
- CFC-free

Temperature Resistance
-40 °C to +100 °C

Heat Conductivity
0,033 W/mK – DIN 52612
Areas of application
- Significant acoustical improvement in recording studios
- Acoustical improvement in HIFI rooms
- Sound insulation of rehearsal rooms
- Significant acoustical improvement in office buildings and call center
- Acoustic ceiling and wall coverings

Physical Effect
Air particle oscillation is decelerated and converted into thermal energy.

Tolerance
This product is manufactured according to DIN 7715 Part 5 P3.

Optional Features
- aixFOAM self-adhesive back
- aixFOAM assembly/suspension cassette for the dimension 1000 mm x 500 mm
- Available fire classification: UL 94 HF 1, FMVSS 302 (DIN 75200), FAR 25.853, DIN 4102 B2 (only with aixFOAM self-adhesive back)
- Special sizes
**Designation**  
Acoustic Absorber SH002

**Surface Form**  
Convoluted (egg crate)  
Rectangle

**Material**  
Open celled polyurethane acoustic foam

**Colors**  
Anthracite, light grey, raspberry red, orange

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**Mounting options and accessories**

- Oscillating plugs in connection with aixFOAM assembly/suspension cassette
- Hanging systems Style and Basic in connection with aixFOAM assembly/suspension cassette
- aixFOAM self-adhesive back

**Standard dimensions**

<table>
<thead>
<tr>
<th>Length [mm]</th>
<th>Width [mm]</th>
<th>Standard Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>500</td>
<td>30 (15 mm foundation, 15 mm nap)</td>
</tr>
<tr>
<td>1000</td>
<td>500</td>
<td>40 (20 mm foundation, 20 mm nap)</td>
</tr>
<tr>
<td>1000</td>
<td>500</td>
<td>60 (30 mm foundation, 30 mm nap)</td>
</tr>
<tr>
<td>2000</td>
<td>1000</td>
<td>30 (15 mm foundation, 15 mm nap)</td>
</tr>
<tr>
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<td>2000</td>
<td>1000</td>
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</tr>
</tbody>
</table>

Figure shows SH002 light grey w. assembly cassette
**Designation**
Acoustic Absorber SH002

**Material**
Open celled polyurethane acoustic foam

**Surface Form**
Convoluted (egg crate)

**Colors**
Anthracite, light grey, raspberry red, orange

### Sound absorption coefficient

<table>
<thead>
<tr>
<th>Frequency [Hz]</th>
<th>125 Hz</th>
<th>250 Hz</th>
<th>500 Hz</th>
<th>1000 Hz</th>
<th>2000 Hz</th>
<th>4000 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 mm (15 mm basis / 15 mm nap)</td>
<td>0.10</td>
<td>0.21</td>
<td>0.50</td>
<td>0.90</td>
<td>0.98</td>
<td>0.93</td>
</tr>
<tr>
<td>40 mm (20 mm basis / 20 mm nap)</td>
<td>0.11</td>
<td>0.32</td>
<td>0.63</td>
<td>0.90</td>
<td>0.91</td>
<td>0.95</td>
</tr>
<tr>
<td>60 mm (30 mm basis / 30 mm nap)</td>
<td>0.16</td>
<td>0.54</td>
<td>1.01</td>
<td>0.99</td>
<td>1.01</td>
<td>1.02</td>
</tr>
</tbody>
</table>

All measurements were conducted on polyester acoustic foam material following DIN 52212.