FOAMSORBATM are extremely lightweight sound absorbing tiles. They are designed to be glued onto existing or new ceilings and high level wall surfaces. They have virtually no weight and are simple to fix. They are fibre and CFC free as well as having excellent fire ratings. Foamsorba tiles are used with great success in applications such as television studios, offices, community and multi-purpose halls, cinemas, classrooms, hallways, music rooms and shooting ranges etc.
APPLICATION
FOAMSORBA acoustic tiles are used to reduce reverberant noise levels in schools, leisure centres, community centres, offices, music studios and multi-purpose halls. Standard tiles should only be used in places where they cannot get hit or damaged.

FOAMSORBA-SLEET stick-on tiles can be covered on the face and all four edges with acoustic fabric facing to provide high resistance to football impacts etc. which makes it ideal for high level use in sports buildings. Samples are available on request for evaluation.

MANUFACTURE
FOAMSORBA acoustic tiles are manufactured from soft foam on a melamine resin base. This makes the tiles free of both artificial and natural mineral fibres (such as rock fibre and fibre glass). It is also free from halogens and CFCs and is environmentally friendly. FOAMSORBA tiles are safe in use, handling and application.

DENSITY
FOAMSORBA tiles have a density of approximately 11kg/m³. Hence the tiles have virtually no weight.

Due to their extremely low density and high acoustic performance, FOAMSORBA tiles are eminently suitable for installation into existing buildings without substantially increasing the load on the structure.

FLAMMABILITY
FOAMSORBA melamine foam meets the requirements of Class 1 of BS476 and also Class 0 of BS476. Class 0 is the optimum performance required by the Building Regulations Approved Document B.

When exposed to intense heat levels, it does not start to drip and produces no after glow.

INSTALLATION
FOAMSORBA acoustic tiles are simply, quickly and easily adhered directly to ceilings and walls by using FOAMSORBA adhesive. The tiles can be easily cut with a Stanley knife or sharp knife.

Further installation information is given on the back page of this brochure.

CLEANING & MAINTENANCE
Clean periodically using a vacuum cleaner as required. Tiles may be redecorated by spraying a fine mist coat of suitable paint.

HEALTH & SAFETY
FOAMSORBA tiles are free from mineral fibres, halogen and CFCs and are environmentally friendly.
**FOAMSORBA™**  
*Stick-on Acoustic Tiles*

**FINISHES:** FOAMSORBA tiles are available in three standard face patterns:-

- **FOAMSORBA-SLEET**  
  This has a plain, flat face structure where anonymity of the tile face is preferred.

- **FOAMSORBA-SNOW**  
  This has a unique moulded structure to allow design creativity for building specifiers.

- **FOAMSORBA-ICE**  
  This has a pyramid like surface and provides the greatest area of absorption of all.

**COLOURS**  
Standard colour is white. Non standard colours may be provided to RAL colours upon request, depending on quantity.

**DIMENSIONS & WEIGHT**  
Nominal dimensions of tiles are 1250 x 625mm.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mm</td>
<td>0.25kg/m²</td>
</tr>
<tr>
<td>50mm</td>
<td>0.6kg/m²</td>
</tr>
<tr>
<td>80mm</td>
<td>0.9kg/m²</td>
</tr>
</tbody>
</table>

Dimensional tolerance in accordance with M4 DIN 7715, Part 2.

**SPECIFICATION**

**Lecture Halls Leisure Halls**

<table>
<thead>
<tr>
<th>Sound absorption</th>
<th>Frequency (Hz)</th>
<th>125 250 500</th>
<th>1k 2k 4k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sleet 20mm</td>
<td></td>
<td>0.07 0.09 0.16</td>
<td>0.30 0.54 0.76</td>
</tr>
<tr>
<td>Sleet 50mm</td>
<td></td>
<td>0.13 0.23 0.48</td>
<td>0.74 0.97 0.92</td>
</tr>
<tr>
<td>Sleet 80mm</td>
<td></td>
<td>0.20 0.45 0.78</td>
<td>0.95 0.96 0.99</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sound absorption</th>
<th>Frequency (Hz)</th>
<th>125 250 500</th>
<th>1k 2k 4k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snow 35mm</td>
<td></td>
<td>0.08 0.21 0.45</td>
<td>0.71 0.82 0.91</td>
</tr>
<tr>
<td>Snow 45mm</td>
<td></td>
<td>0.15 0.27 0.63</td>
<td>0.91 1.03 1.06</td>
</tr>
<tr>
<td>Snow 65mm</td>
<td></td>
<td>0.17 0.44 0.88</td>
<td>1.08 1.10 1.16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sound absorption</th>
<th>Frequency (Hz)</th>
<th>125 250 500</th>
<th>1k 2k 4k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ice 55mm</td>
<td></td>
<td>0.13 0.25 0.50</td>
<td>0.75 0.88 0.94</td>
</tr>
<tr>
<td>Ice 85mm</td>
<td></td>
<td>0.22 0.49 0.77</td>
<td>0.96 0.96 1.05</td>
</tr>
<tr>
<td>Ice 115mm</td>
<td></td>
<td>0.40 0.77 0.92</td>
<td>1.01 1.00 1.04</td>
</tr>
</tbody>
</table>

Dimensional tolerance in accordance with M4 DIN 7715, Part 2.
IN STALLATIO N FO A M SO RBA

adhered, around the tile perimeter and several bead stripes are
dilution ratio of 1 part water to 1 part primer. Uneven surfaces m ust
be treated with commercially available water-based prim ers at a
dry, solid and free from dust, oil and wax residues. Under surfaces
from oil and grease residue.

When applying the tiles, the under surface must be smooth, clean,
dry, solid and free from dust, oil and wax residues. Under surfaces
which lack sufficient solidity, for example, sandy surfaces, must first
be treated with commercially available water-based prim ers at a
dilution ratio of 1 part water to 1 part primer. Uneven surfaces m ust
first be levelled.

The adhesive is spread evenly over the entire back surface of the
acoustic tile to be adhered to or
the underside to which the tile is
to be adhered. The tiles are then
positioned into place, pressed to
the surface and adjusted. Any
adhesive drips or excess can be
wiped away while still fresh with
water. During adhesion and
afterwards, attention must be paid
to providing adequate ventilation
to ensure quick bonding. We
recommend a test adhesion be
carried out before proceeding
with full installation.

Coverage of ‘AK20’ adhesive is
approximately 1.2 – 1.5kg/m² when
the entire surface is being covered.

FOR NON ABSORBENT SURFACES

FOAMSORBA acoustic ‘silicone’ adhesive comes ready to use in
mastic tube cartridges. The adhesive adheres immediately upon contact. However, it is still possible to correct placement of tiles shortly after adhesion.

A bead of ‘silicone’ adhesive is applied to the back of the tile to be
adhered, around the tile perimeter and several bead stripes are
applied to the intermediate areas of the tile. The number of stripes depends on the particular tile version and tile size. Ensure that adequate bead stripes are applied to prevent any sagging of the tile in any area.

We recommend a test adhesion to be carried out before proceeding with the full installation.

Coverage is approximately 0.5 cartridges/m². Approx 1.0 cartridges/m² when adhering FOAMSORBA-SNOW.

APPLICATION DETAILS

When adhering FOAMSORBA-SNOW, special attention must be paid as the tiles are paired. This version of the tiles must be fitted in tile pairs in the same configuration as the tiles are shipped in. Each pair is folded open and adhered with the adjoining edges butting up to each other.

To prevent soiling of the tiles during adhesion, we recommend that clean gloves be worn. We recommend that adhesive is applied at a temperature range of between +10°C and 23°C. The adhesive must not be exposed to temperatures below 4°C.

For areas exposed to pollution that might eventually soil the tiles, we recommend the use of the tiles in the paint coated versions, such as light grey. We also recommend the use of paint coated tiles in situations where air might flow through the tiles. However, make sure to eliminate this airflow by filling and sealing any gaps, holes or other air paths in the backing surface first, before applying the tiles.

Attention must also be paid to ensure that there is no cold bridging on the backing surface and the backing surface is a ‘warm’ surface and that the dew point does not shift. Thermal conductivity of the tiles at 10°C is 0.034 W/(mK).

Due to fluctuations in atmospheric humidity, dimensional tolerance changes of up to 2% may occur with FOAMSORBA tiles. Acclimatisation tiles in the area where they are to be used for 72 hours before installation.

The standard FOAMSORBA tiles are uncoated and are white in their natural colour. But they are available in two standard paint coated colours in white or light grey at extra cost. Other paint coating colour options are available for orders exceeding 100m² upon request.

Prior colour sampling is required. Variations in colour cannot be completely excluded.

GUIDE SPECIFICATION

A. General
1. All FOAMSORBA tiles should be installed in accordance with manufacturer’s instructions.
2. The contractor shall be responsible for the examination and acceptance of all conditions and project suitability prior to the acoustic tile installation.

B. Product
1. Install FOAMSORBA-SLEET*/FOAMSORBA-SNOW*/FOAMSORBA-ICE* acoustic tiles,
size........mm x........mm x thickness........mm
2. Fix tiles using FOAMSORBA silicone*’AK20’ adhesive*
*Delete as applicable.

FOAMSORBA acoustic tiles are distributed by: