Agglomerated recycled rubber mixed with cork and EVA foam resilient layer for impact noise insulation of floating screed.

**Material Description & Properties**

Agglomerated recycled rubber mixed with cork and EVA foam resilient layer for impact noise insulation of floating screed.

**Product Specification**

- mm resilient acoustic underscreed made of agglomerated recycled SBR (Styrene Butadiene Rubber) combined with EVA foam and Cork with PU (polyurethane) elastomer bonding agent for impact noise insulation of floating screeds, with a density of 600 kg/m³ and an impact noise reduction $\Delta L_w$ of ___ dB

**Key Features**

- Impact noise reduction
- High load capacity with low deflection
- Long-term resilience
- Produced from recycled and natural materials

**Thermal Properties**

Thermal Conductivity: 0.0963 W/mK - as per ISO 8301

**Physical and Mechanical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>6/3 mm</th>
<th>8/4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Weight</td>
<td>600 Kg/m³</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>100 KPa</td>
<td></td>
</tr>
<tr>
<td>Recovery after 0.7MPa</td>
<td>&gt; 80%</td>
<td></td>
</tr>
<tr>
<td>Cpl level</td>
<td>&lt;1 mm²</td>
<td></td>
</tr>
</tbody>
</table>

(1) ASTM F1315 • (2) ASTM F152 • (3) ASTM F36 • (4) ISO 92/19 • (5) For both thicknesses 6/3 and 8/4 mm

**Load Deflection**

<table>
<thead>
<tr>
<th>Stress [MPa]</th>
<th>0.1</th>
<th>0.2</th>
<th>0.3</th>
<th>0.4</th>
<th>0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deflection [mm]</td>
<td>6/3mm</td>
<td>8/4mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FIRE CLASSIFICATION**

E/Efl - as per EN 13501-1 and ISO 11925

**Acoustical Results**

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>6/3</th>
<th>8/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\Delta L_w$ (dB) (1)</td>
<td>24</td>
<td>26</td>
</tr>
<tr>
<td>IIC (dB)</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

(1) as per ISO 10140-3 and ISO 717-2

**Test Apparatus ($\Delta L_w$)**

- Concrete floating screed with 70mm thickness
- Agglomerated resilient layer - U34C
- Reinforced concrete slab of thickness 140mm

**Dynamic Stiffness**

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>6/3</th>
<th>8/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Stiffness (MN/m³) (1)</td>
<td>45</td>
<td>32</td>
</tr>
</tbody>
</table>

(1) as per ISO 9052-1:1989; ISO 7626-5:1994

**Thermal Properties**

Thermal Conductivity: 0.0963 W/mK - as per ISO 8301
The following installation instructions are recommended by Amorim Cork Composites, but are not intended as a definitive project specification. They are presented in an attempt to be used with recommended installation procedures of the flooring manufacturers and screed.

**Room Conditions**
Temperature > -5ºC / Room moisture content < 75%.

**Subfloor**
All subfloor work should be structurally sound, clear and level. The moisture content of the subfloor should not be more than 2.5% (CM) by weight measured on concrete subfloors.

**Perimeter Insulation Barrier**
Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

**Agglomerated recycled rubber mixed with cork and EVA foam resilient layer for impact noise insulation of floating screed - U34C**

**Installation Instruction for Acousticork U34C**

**Screed and Final Flooring**
Cast a suitable screed over the Acousticork U34C previously installed. Always follow manufacturers recommended installation instructions. For detailed installation instructions, please contact us.

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The data provided in this Material Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper product may result in either equipments damage or personal injury. Please contact Amorim Cork Composites regarding specific application recommendations. Amorim Cork Composites expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Composites is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this MDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity. For contractual purposes, please request our Product Specifications Sheet (PDS).

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