Material Description & Properties

100% Agglomerated Cork underlay for impact noise and thermal insulation.

KEY FEATURES

- 100% natural, reusable and recyclable.
- Excellent acoustic performance.
- Excellent thermal resistance capacity.
- Flexible and adaptable.
- High durability.
- High performance with reduced thickness.

* Tested according to MMFA/EPLF higher requirements group 1 and 2.

PHYSICAL AND MECHANICAL PROPERTIES

<table>
<thead>
<tr>
<th>TEST</th>
<th>LIMIT</th>
<th>UNIT</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>—</td>
<td>kg/m³</td>
<td>220 – 280</td>
</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 0.5</td>
<td>mm</td>
<td>≥ 1.3</td>
</tr>
<tr>
<td>Compression Strength (CS)</td>
<td>≥ 400</td>
<td>kPa</td>
<td>470</td>
</tr>
<tr>
<td>Compression Creep (CC)</td>
<td>≥ 35</td>
<td>kPa%</td>
<td>50</td>
</tr>
<tr>
<td>Impact Sound (IS)</td>
<td>≥ 18</td>
<td>dB</td>
<td>19</td>
</tr>
<tr>
<td>Thermal Resistance (R)*</td>
<td>≥ 0.15</td>
<td>m²/C/W</td>
<td>0.039</td>
</tr>
<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 100 000</td>
<td>cycles</td>
<td>≥ 100 000</td>
</tr>
</tbody>
</table>

* Suitable for underfloor heating and cooling.

THERMAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Conductivity</td>
<td>0.0516 W/m·°C</td>
</tr>
<tr>
<td>Thermal Resistance</td>
<td>0.0388 m²·°C/W</td>
</tr>
</tbody>
</table>

* ISO 7322

**ISO 8301

STANDARD DIMENSIONS

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness (mm)</td>
<td>2</td>
</tr>
<tr>
<td>Width and Length (m)</td>
<td>1 x 15</td>
</tr>
</tbody>
</table>
ACOUSTICAL RESULTS


<table>
<thead>
<tr>
<th>Thickness</th>
<th>Flooring</th>
<th>$\Delta L_w (C_{50})$</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 mm</td>
<td>Laminate</td>
<td>19 dB</td>
</tr>
<tr>
<td>3 mm</td>
<td>Glued down wood</td>
<td>26 dB</td>
</tr>
<tr>
<td>5 mm</td>
<td>Ceramic</td>
<td>16 dB</td>
</tr>
</tbody>
</table>

$\Delta L_w$ impact sound pressure level reduction index of the covering under test, on a normalized floor.

**TEST APPARATUS ($\Delta L_w$)**

- **01.** Floor covering composed by glued down wood, non glued laminate floor or ceramic or natural stone tiles
- **02.** Agglomerated cork resilient layer - PRO 10
- **03.** Reinforced concrete slab of thickness 140mm
Note: Following ISO8013-1998 measured in Cantilever Test System
GENERAL INSTALLATION INSTRUCTIONS

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.

Room Conditions
Temperature > 10ºC / 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.

Vapor Insulation Barrier (only for Non Glued Floors)
PE (Polyethylene) vapor insulation barrier covering the entire flooring area, minimum 50mm wide vertically around the perimeter of the entire floor MUST be installed prior to the Amorim PRO 10.

Install by overlapping (minimum 100mm) the PE foil, and use an adequate tape to adhere/fix it, if necessary. After completion, PE foil should cover the entire area without gaps. Never mechanically fasten the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Installation Instruction for Amorim PRO 10
Unpack the Amorim PRO 10 at least 24h before the installation and store it in the room where the installation will take place. Cut the Amorim PRO 10 to desired length and install directly over the entire floor pulled 30mm up the walls with crown of the rolled materials up, removing all trapped air.

An independent perimeter insulation barrier can be installed around the entire perimeter of the room with width equal to that of the floor build up.

Both solutions are valid, the most important is 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.

After completion, the Amorim PRO 10 should cover the entire flooring area without gaps and with joints butted tight and preferably taped.

Final Flooring
Always follow manufacturers recommended installation instructions.

Recommended Adhesives:
- Wood floor to Amorim PRO 10: Water-Based Emulsion/Polyurethane Glue;
- Vinyl and linoleum to Amorim PRO 10: Water-Based Emulsion/Synthetic Resin Glue;
- Ceramic to Amorim PRO 10: Flexible Cement Glue;
- Amorim PRO 10 to slab/screed: Water-Based Emulsion/Acrylic Adhesives;

Application Process

NON GLUED FLOORS


GLUED FLOORS

1. Perimeter barrier application; 2. Underlay application (glued); 3. Final floor application (glued); 4. Perimeter insulation barrier cut.

Important Notes
Never mechanically fasten the Amorim PRO 10 to the flooring floor as this will severely diminish its acoustical value.

For detailed installation instructions, please contact us.