100% Natural and Sustainable Product
Impact Noise Reduction and Thermal Insulation Properties
High Durability and Long Term Resilience
High Performance with Reduced Thickness

MATERIAL DESCRIPTION & PROPERTIES

**PRODUCT DESCRIPTION**
Agglomerated cork underlay for impact noise and thermal insulation.

**THERMAL PROPERTIES**
Thermal Conductivity: 0.04 W/mK (1)

ISO 8301

**PHYSICAL AND MECHANICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specific Weight (1)</th>
<th>Tensile Strength (1)</th>
<th>Compression at 0,7MPa (1)</th>
<th>Recovery after 0,7MPa (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 - 200 Kg/m³</td>
<td>&gt; 200 KPa</td>
<td>30%</td>
<td>&gt; 70%</td>
</tr>
</tbody>
</table>

ISO 7322

**ACOUSTICAL RESULTS**

<table>
<thead>
<tr>
<th>Flooring</th>
<th>Thickness (mm)</th>
<th>ΔLw (dB) (1)</th>
<th>IIC (dB) (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Glued Laminate</td>
<td>2</td>
<td>20</td>
<td>54</td>
</tr>
<tr>
<td>Glued Down Wood</td>
<td>3</td>
<td>26</td>
<td>59</td>
</tr>
<tr>
<td>Ceramic (or Natural Stone)</td>
<td>3 perforated</td>
<td>18</td>
<td>51</td>
</tr>
</tbody>
</table>

ISO 10140-3 and ISO 717-2 • ASTM E492-09 & ASTM E989-06

**STANDARD DIMENSIONS**

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>2</th>
<th>3</th>
<th>3 perforated</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (m) x Length (m)</td>
<td>1 x 10</td>
<td>1 x 10</td>
<td>0,5 x 10</td>
<td>1 x 10</td>
</tr>
</tbody>
</table>

Others sizes available upon request
**ACOUSTICAL RESULTS**


Normalized impact pressure level $L_{n,r}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{n,r,0}$ - Normalized impact sound pressure level of the Lab reference floor; $\Delta L_w$ - Impact sound pressure level reduction index of the covering under test, on a normalized floor.

<table>
<thead>
<tr>
<th>Ref. Test Report</th>
<th>Thickness</th>
<th>Flooring</th>
<th>$L_{n,r,w}$ ($C_{1,w}$)</th>
<th>$\Delta L_w$ ($C_{2,w}$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRL C/06/5L/3676/1a</td>
<td>2 mm</td>
<td>Non Glued Laminate</td>
<td>58 (0) dB</td>
<td>20 (-11) dB</td>
</tr>
<tr>
<td>SRL C/06/5L/3676/1a</td>
<td>3 mm</td>
<td>Glued Down Wood</td>
<td>52 (1) dB</td>
<td>26 (-12) dB</td>
</tr>
<tr>
<td>ACL034/16</td>
<td>3 mm perforated</td>
<td>Glued Down Wood</td>
<td>60 (0) dB</td>
<td>18 (-11) dB</td>
</tr>
<tr>
<td>SRL C/06/5L/3676/1a</td>
<td>5 mm</td>
<td>Ceramic (or Natural Stone)</td>
<td>62 (0) dB</td>
<td>16 (-11) dB</td>
</tr>
</tbody>
</table>

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

01. Floor covering composed by glued down wood, non glued laminate floor or ceramic or natural stone tiles

02. Agglomerated cork resilient layer - T61

03. Reinforced concrete slab of thickness 140mm

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**ACOUSTICAL RESULTS**


$L_{n,r}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{n,r,0}$ - Normalized impact sound pressure level of the Lab reference floor.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Flooring</th>
<th>IIC$_c$</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 mm</td>
<td>Laminates</td>
<td>54 dB</td>
</tr>
<tr>
<td>3 mm</td>
<td>Glued Down Wood</td>
<td>59 dB</td>
</tr>
<tr>
<td>3 mm perforated</td>
<td>Glued Down Wood</td>
<td>51 dB</td>
</tr>
<tr>
<td>5 mm</td>
<td>Ceramic (or Natural Stone)</td>
<td>50 dB</td>
</tr>
</tbody>
</table>
PHYSICAL AND MECHANICAL PROPERTIES

LOAD DEFLECTION

CREEP DEFLECTION @ 0.0045MPa (% OF START HEIGHT)

Note: Following ISO8013-1998 measured in Cantilever Test System

DYNAMIC STIFFNESS

Test procedure according ISO 9052-1 and ISO 7626-5 standards.

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Dynamic Stiffness (MN/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>98</td>
</tr>
<tr>
<td>3</td>
<td>96</td>
</tr>
<tr>
<td>5</td>
<td>93</td>
</tr>
</tbody>
</table>

INSTALLATION

GLUED FLOORS

NON GLUED FLOORS

Renewed concrete slab

Adhesive

Agglomerated cork resilient layer - T61

Floor covering composed by glued down wood, ceramic or nature stone

Perimeter insulation barrier

Vapor barrier

Floor covering composed by non glued laminate floor
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 > 10°C / 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 Acousticork T61. 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 concrete 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 Acousticork T61
Unpack the Acousticork T61 at least 24h before the installation and store it in the room where the installation will take place. Cut the T61 to desired length and install directly over the entire floor pulled 30mm up the walls with crown of the rolled materials up (Acousticork label side down), removing all trapped air. After completion, the T61 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 Acousticork: Water-Based Emulsion/Polyurethane Glue;
Vinyl and linoleum to Acousticork: Water-Based Emulsion/Synthetic Resin Glue;
Ceramic to Acousticork: Flexible Cement Glue;
Acousticork 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 Acousticork T61 to the flooring floor as this will severely diminish its acoustical value.

For detailed installation instructions, please contact us.