IDEAL UPGRADE FOR MULTIFAMILY CONSTRUCTION WHERE FLOOR HEIGHT IS A CONCERN

A breakthrough in sound control, Acousti-Mat® 1/4 Premium takes the proven sound reduction of Acousti-Mat’s floating floor technology and adds an additional layer of isolation. An acoustical fabric is laminated to the bottom of a core of fused entangled polymeric filaments, attached to a non-woven, water-resistant fabric, and then topped with a high-strength Maxxon Underlayment.

Acousti-Mat 1/4 Premium increases the IIC levels of the floor/ceiling assembly by up to 13 points over wood frame construction and up to 20 points over concrete construction. Acousti-Mat 1/4 Premium is an approximate 1/4” thick mat and requires only a 1” underlayment topping.

FEATURES & BENEFITS

- Increases IIC rating up to 13 points over wood frame and up to 20 points over concrete
- Acousti-Mat 1/4 Premium combines acoustical fabric with entangled mesh, for an overall approximate 0.25” mat profile
- Added impact sound control with no added height
- Requires only a 1” topping
- GREENGUARD and GREENGUARD Gold Certified
TECHNICAL DATA

Description: Entangled polymeric filament mat attached to non-woven fabric
Premium Layer: Microfibrous non-woven fabric
Color: Clear with water resistant finish
Thickness, nominal: 0.25” (6 mm)
Composite Weight: 19.95 oz/y²

Thermal Resistance R-Value (R°F•F•h/ BTU):
Mat Only: 1.050
1" Maxxon Underlayment: 0.192
Mat/Underlayment: 1.242

Underlayment Depth:
Maxxon Underlayment: 1” (25 mm)

Pressure/Deflection:
500 psf (2,441 kg/m²): 0.047” (1.19 mm)
1,000 psf (4,882 kg/m²): 0.068” (1.72 mm)
2,000 psf (9,765 kg/m²): 0.098” (2.48 mm)
4,000 psf (19,530 kg/m²): 0.180” (4.57 mm)

Fire Performance ASTM E-84:
Fuel Contribution: 0
Smoke Density: 0
Flame Spread: 0

SOUND PERFORMANCE

<table>
<thead>
<tr>
<th>Floor System</th>
<th>Underlayment</th>
<th>Insulation</th>
<th>Resilient Channel</th>
<th>Drywall</th>
<th>Sound Mat</th>
<th>Floor Covering</th>
<th>Rating</th>
<th>Test Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; PARALLEL CHORD TRUSS</td>
<td>1&quot; (25 mm)</td>
<td>Yes</td>
<td>Yes</td>
<td>1 layer 5/8&quot;</td>
<td>Accousti-Mat 1/4 Premium</td>
<td>None</td>
<td>Tile</td>
<td>37 FIC</td>
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<tr>
<td>3/4&quot; [19 mm]</td>
<td>Yes</td>
<td>Yes</td>
<td>1 layer 5/8&quot;</td>
<td>Accousti-Mat 1/4 Premium</td>
<td>Tile</td>
<td>34 FIC</td>
<td>13-124</td>
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<td>1&quot; (25 mm)</td>
<td>Yes</td>
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<td>Accousti-Mat 1/4 Premium</td>
<td>Vinyl Plank</td>
<td>43 FIC</td>
<td>L13-124</td>
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<tr>
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<td>Yes</td>
<td>1 layer 5/8&quot;</td>
<td>Accousti-Mat 1/4 Premium</td>
<td>Vinyl Plank</td>
<td>34 FIC</td>
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<td>1 layer 5/8&quot;</td>
<td>Accousti-Mat 1/4 Premium</td>
<td>None</td>
<td>36 FIC</td>
<td>L13-127</td>
<td></td>
</tr>
</tbody>
</table>

9½" TJI JOISTS | 3/4" [19 mm] | Yes | Yes | 1 layer 5/8" | Accousti-Mat 1/4 Premium | None | Vinyl | 53 FIC, 29 IC | 19-86-2 |

3/4" [19 mm] | Yes | Yes | 2 layers 5/8" | Tile | 34 FIC | L13-124 |


Underlayment Insulation: 1" Maxxon Underlayment
Mat/Underlayment: 2 layers 5/8”

SOUND TEST INFORMATION: International Building Code (IBC) requires a minimum 50 STC/RC (45 STC/FRC) in multifamily construction. Because an STC/RC of 50 provides only marginal sound control, the International Code Council (ICC), author of the IBC, now recommends that an “acceptable” level of performance for both STC and RC is 55 (52 if field tested). The “preferred” level of performance for STC and RC is 60 (57 if field tested). Precast Concrete: International Code Council (ICC), author of the IBC, now recommends that an “acceptable” level of performance for STC and RC is 55 (52 if field tested). The “preferred” level of performance for STC and RC is 60 (57 if field tested).

ACCUSOUND® INSTALLATION

Sound mat is loose laid over the entire concrete or wood subfloor.
Seams between sections of sound mat are adhered with zip strips or taped.*
Isolation strips are installed, then taped, around the perimeter of the entire room to eliminate flanking paths. Isolation strips are also installed, then taped, around any vertical penetration through the floor.
Sound mat is topped with an approved Maxxon Underlayment, at a depth specific to the application. To ensure uniform depth and a smooth finish, installers use a screed to the application.

In as little as two hours after the underlayment has been poured, the floor is hard enough to accommodate foot traffic, so light subgrades may continue working. Total drying time varies depending on the type of finished goods to be installed, but is generally completed within 10 to 14 days.

LEED® INFORMATION

For information regarding how Acousti-Mat 1/4 Premium may contribute toward points for LEED project contribution, contact your Regional Representative at [800] 356-7887 or visit www.maxxon.com/go_green.

ACOUSTI-MAT 1/4 PREMIUM

For more info: 800-356-7887 • Email: info@maxxon.com
www.MaxxonCorporation.com

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