The original sound control mat just got better. Enkasonic® HP provides additional impact noise control with an added layer of high performance acoustical fabric. The HP layer is laminated to the bottom of a core of fused entangled polymeric filaments, which is attached to a non-woven, water-resistant fabric. To complete the Maxxon engineered sound control system, Enkasonic HP is topped with a high-strength Maxxon Underlayment.

Enkasonic HP increases the IIC levels of the floor/ceiling assembly by up to 18 points over wood frame construction and up to 25 points over concrete construction. Enkasonic HP is an approximate 3/8" (10 mm) thick mat and requires only a 1" topping. Considered a “green” building material, Enkasonic HP is composed of 40% pre-consumer recycled content.

**FEATURES & BENEFITS**
- Increases IIC rating up to 18 points over wood frame and up to 25 points over concrete
- Enkasonic HP combines acoustical fabric with entangled mesh for an overall approximate 3/8" (10 mm) mat profile
- Requires only a 1" topping
- GREENGUARD and GREENGUARD Gold Certified
### TECHNICAL DATA

**Description**
- Entangled polymeric filament mat (40% recycled content) attached to non-woven fabric
- HP Layer: microfibrous non-woven fabric

**Color**
- Black with white water-resistant fabric

**Thickness, nominal**
- 3/8" (10 mm)

**Density**
- 3.84pcf (61.56 kg/m³)

**Thermal Resistance**
- R-Value: Mat Only... 1.380
- 1" Maxxon Underlayment... 0.192
- Mat/Underlayment... 1.572

**Pressure/Deflection**
- 500 psf (2,441 kg/m²)... 0.067" (1.70 mm)
- 1,000 psf (4,882 kg/m²)... 0.116" (2.95 mm)
- 2,000 psf (9,765 kg/m²)... 0.172" (4.37 mm)
- 4,000 psf (19,530 kg/m²)... 0.244" (6.20 mm)

**Underlayment Depth**
- Gypsum Underlayment... 1" (25 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>Minimum Tapping Depth</th>
<th>Sound Mat</th>
<th>Resilient Channel</th>
<th>Ceiling</th>
<th>Floor Coverings</th>
<th>Ratings</th>
<th>Test Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARALLEL CHORD TRUSS</td>
<td>3/4&quot;</td>
<td>None</td>
<td>Yes</td>
<td>5/8&quot;</td>
<td>Tile</td>
<td>FIC 37</td>
<td>F13-123</td>
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<td>Enkasonic® HP</td>
<td>Yes</td>
<td>5/8&quot;</td>
<td>None</td>
<td>FIC 37</td>
<td>F13-123</td>
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<td>Enkasonic® HP</td>
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<td>5/8&quot;</td>
<td>Vinyl Plank</td>
<td>FIC 59</td>
<td>F13-132</td>
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</tbody>
</table>

*SOUND TEST INFORMATION: All acoustic testing was done by Architectural Testing, Newtech Testing Laboratories, Intertek, Inc., Twin City Testing Corporation, Masscon R&D Test Center, D.L. Adams Associates, L.T.D.; Veralliance Associates, NGC Testing Services; AV Group or XAS Acoustics. For type of floor covering used, channel spacing and other information, contact Maxxon for test reports by number. International Building Code (IBC) requires a minimum 45 STC/IIC (40 F-STC/F-IIC) in multifamily construction. Because an STC/IIC 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 IIC is 55 (50 F-STC/F-IIC) in multifamily construction. Because an STC/IIC 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 IIC is 55 (50 F-STC/F-IIC) in multifamily construction.

### ENKASONIC HP INSTALLATION

**Step 1**
- Sound mat is loose laid over the entire concrete or wood subfloor.

**Step 2**
- Seams between sections of sound mat are adhered with zip-strips or taped. *Once the mat has been loose laid, no further penetrations should be made. Rigid attachment through the sound mat minimizes the sound performance.*

**Step 3**
- 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.

**Step 4**
- 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 screwed to finish the underlayment surfac. (If Enkasonic is installed only in hard surface areas, the underlayment is poured directly over the subfloor in areas to be covered with carpet and pad.)

**Step 5**
- As little as two hours after the underlayment has been poured, the floor is hard enough to accommodate foot traffic, so light subrodes may continue working. Total drying time varies depending on the type of finished floor goods to be installed, but is generally completed within 7 to 10 days.

### LEED® INFORMATION

For information regarding how Enkasonic HP may contribute toward points for LEED project contribution, contact your Regional Representative at (800) 356-7887 or visit www.maxxon.com/go_green.