ACOUSTI-MAT®

ULTIMATE SOUND CONTROL SYSTEMS

- NEW CONSTRUCTION
- RENOVATION
- WOOD FRAME CONSTRUCTION
- CONCRETE CONSTRUCTION
- OPEN BEAM CONSTRUCTION
- LIGHT GAUGE STEEL CONSTRUCTION
- HARD SURFACE AREAS

PROVEN SOUND CONTROL SOLUTIONS

- Documented sound tests over a variety of assemblies
- More than 100 UL Fire Rated Designs
- Light weight, easy to install
- Low deflection rate with high load levels
- Durable — chemical and moisture insensitive
- Proven on over 200 million square feet
WHY ACOUSTI-MAT?

FOOTFALL NOISE FROM THE TENANT UPSTAIRS. LOUD MUSIC IN THE APARTMENT ABOVE.

We have all experienced the pitfalls of an inferior sound control system. Whether in a commercial, multifamily, or single family application, sound control is important to the end user. Don’t let your project be one of the casualties of poor sound control.

With Acousti-Mat®, design possibilities include the full spectrum of floor good options such as marble, ceramic tile or hardwood, without sacrificing sound control. Acousti-Mat can be installed in hard surface areas only, or throughout the entire floor plan to ensure peace and quiet from impact and airborne noises. Backed by over 1,000 third party acoustical tests, Acousti-Mat is the proven sound control solution in all types of construction.

Designed for today’s fast-track project schedules, Acousti-Mat installation is fast and easy. After laying Acousti-Mat over the subfloor, Maxxon dealers pour a high-strength Maxxon Underlayment over it. Acousti-Mat I, Acousti-Mat II, Enkasonic®, and Acousti-Mat 3 have a core of fused entangled filaments attached to a non-woven fabric that creates a void and actually isolates sound waves between the subfloor and the high-strength Maxxon Underlayment.

When installed together, the Acousti-Mat and Maxxon Underlayment form an engineered system that is warranted against manufacturing defects. This single-warranty system simplifies the claim process should there be a defect in the materials installed.

Not only do Acousti-Mat and Enkasonic help reduce noise pollution, they also promote indoor air quality. The Acousti-Mat/Maxxon Underlayment system is the only sound control mat/underlayment system that is GREENGUARD Certified and GREENGUARD Gold Certified.

Manufactured with 40% pre-consumer recycled content, Acousti-Mat sound control mats may also help contribute toward points for LEED® project certification. For information regarding Acousti-Mat and Enkasonic’s contribution to LEED, contact your Regional Representative at (800) 356-7887 or visit www.mxxon.com/go_green.
CHOOSING A SOUND MAT

WHICH SOUND MAT IS RIGHT FOR MY PROJECT?

There are many factors that go into determining which sound control mat you should choose:

WHAT IS THE FLOOR/CEILING ASSEMBLY?
The inherent design of a building can dictate the level of sound control you need in order to meet and/or exceed code. Knowing the base sound performance of your floor/ceiling assembly will help narrow down your choices for a sound control mat.

WHAT IS THE FIRE DESIGN CODE?
Maxxon sound control mats are in numerous codes as well as in over 100 UL Fire Designs. See the chart on page 10 for a complete list of Maxxon’s UL Fire Designs. Refer to Maxxon’s Fire & Sound Manual for a list of UL numbers, the Maxxon sound control mats included in the design, and how each mat performs acoustically on the given assembly.

WHAT IS THE ACOUSTICAL REQUIREMENT?
The International Building Code specifies that assemblies shall have a sound transmission class (STC) of not less than 50 (45 if field tested). This STC rating measures the amount of airborne noise transmitted through common walls, partitions, and floor/ceiling assemblies. The code also specifies that the impact insulation class (IIC) rating, which measures the impact noise, be no less than 50 (45 if field tested).

It should be noted that an STC/IIC of 50 provides only marginal sound control, therefore the International Code Council (ICC) now recommends that an “acceptable” level of performance for both STC and IIC is 55 (52 if field tested). The “preferred” level of performance for STC and IIC is 60 (57 if field tested). Typically a floor/ceiling assembly cannot meet these levels on their own merit, so a sound control mat is needed.

WHAT IS THE BUDGET?
Of course, budget also needs to be taken into consideration when selecting a sound control mat. However, future use of the project should also be considered; improving acoustics once construction is complete is costly and time-consuming.

OTHER CONSIDERATIONS
What about projects that demand even better sound control or those with floor height limitations? Maxxon now offers a high performance line of sound control solutions, Acousti-Mat HP. See page 10 to learn more. Need help determining which sound mat is right for your project? Maxxon’s Interactive System Selector can help — www.maxxon.com/selector.

ACOUSTI-MAT® I
The Thin Solution

• Increases IIC levels up to 7-10 points in wood frame construction
• Increases IIC levels up to 20 points in concrete construction
• Helps meet code in apartment construction
• Requires only a 3/4” Maxxon Underlayment topping

ACOUSTI-MAT® II
The Industry Standard

• Increases IIC levels up to 8-10 points in wood frame construction
• Increases IIC levels up to 20 points in concrete construction
• Ideal for multifamily construction

Enkasonic®
The Original Sound Control Mat

• Increases IIC levels up to 10-12 points in wood frame construction
• Increases IIC levels up to 22 points in concrete construction
• Increased sound deadening for “preferred” levels of sound control

ACOUSTI-MAT® 3
The Superior Sound Control System

• Increases IIC levels up to 15-17 points in wood frame construction
• Increases IIC levels up to 25 points in concrete construction
• Sound control for open beam construction/renovation

www.MaxxonCorporation.com
ACOUSTI-MAT® I
The Thin Solution

TECHNICAL DATA

**Description**
Entangled polymeric filament mat

**Thickness**
3/16” (5 mm)

**Density**
2.64 lb/sf (42.2 kg/m²)

**Thermal Resistance**
R-value [°F•h/ft²•BTU]
- Mat Only: 0.400
- 3/4” Maxxon Underlayment: 0.144
- Mat/Underlayment System: 0.544

**Underlayment Depth**
See page 8

**Pressure/Deflection**
- 50 psf (244 kg/m²): 0.013” (0.33 mm)
- 100 psf (488 kg/m²): 0.017” (0.43 mm)
- 200 psf (976 kg/m²): 0.021” (0.53 mm)
- 300 psf (1464 kg/m²): 0.025” (0.63 mm)

**Fire Performance**
- ASTM E-84 w/ Maxxon Underlayment
- Fuel Contribution: 0
- Smoke Contribution: 0
- Flame Spread: 0

**Smoke Thickness**
3/16” (5 mm)

**Density**
2.64 pcf (42.2 kg/m³)

**Description**
Entangled polymeric filament mat

**Underlayment Depth**
See page 8

- **Mat Only**: 0.400
- 3/4” Maxxon Underlayment: 0.144
- Mat/Underlayment System: 0.544

**Thermal Resistance**
- R-value [ft²•°F•h/BTU]
- 50 psf (244 kg/m²): 0.013” (0.33 mm)
- 100 psf (488 kg/m²): 0.017” (0.43 mm)
- 200 psf (976 kg/m²): 0.021” (0.53 mm)
- 300 psf (1464 kg/m²): 0.025” (0.63 mm)

**Fuel Contribution**
0

**Smoke Contribution**
0

**Flame Spread**
0

**BENEFITS**
- Economical choice when needing a high-quality sound control mat requiring only a 3/4” Maxxon Underlayment pour depth.
- Helps meet both fire rating and sound rating requirements.
- Cost-effective choice for both new floors and retrofit where floor height is a concern.
- Increases IIC levels 7–10 points over wood frame.
- Increases STC rating 3–6 points compared to a 3/4” Maxxon Underlayment/wood frame system, 6–15 points when compared to a bare wood frame system.
- Always with 40% pre-consumer recycled content.
- GREENGUARD Gold Certified.

**PROJECT SPOTLIGHT**
THE FLUX
MINNEAPOLIS, MN

Contractor: Frana Companies
Architect: BKV Group
Scope: 25,000 sq. ft. of AcoSTi-MaT® I in hard surface areas, 191,000 sq. ft. of Maxxon® Underlayment poured at a depth of 3/4”, 35,000 sq. ft. of LevellRight® WearTop™ poured at 3/8” in living units on 1st and 2nd floors.

**SOUND TEST INFORMATION**
F-IIC (Field Impact Insulation Class) sound tests were performed in accordance with ASTM E 1007 and E989; F-STC (Field Sound Transmission Class) sound tests were performed in accordance with ASTM E 336 and E 492. Actual tests and assembly details are available upon request. Maxxon Underlayments and Acousti-Mat® I are but single components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the installation of all components of construction to ensure the ultimate designed acoustical performance.

- **Approved Maxxon Underlayment**
- UL L546

**SOUND TESTS**

<table>
<thead>
<tr>
<th>Floor System</th>
<th>Topping</th>
<th>Insulation</th>
<th>Resilient Channel</th>
<th>Ceiling Drywall</th>
<th>Floor Covering</th>
<th>Rating</th>
<th>Test Numbers</th>
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<td>Luxury Vinyl Tile</td>
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ACOUSTI-MAT® II
The Industry Standard

SOUND TEST INFORMATION
Field Impact Insulation Class (IIC) sound tests were performed in accordance with ASTM E-1007 and E-989. F-SC (1/4” of approved Maxxon® Underlayment in the field) sound tests were performed in accordance with ASTM E-336 and E-492. Actual tests and assembly details are available upon request.

Maxxon Underlayments and Acousti-Mat II are but single components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the acoustical design of all components of constructions to ensure the ultimate acoustical performance.

BENEFITS
• Low 1/4" profile allows a thinner floating floor composite.
• Increases STC rating 3–6 points compared to a 3/4” Maxxon Underlayment/wood frame system, 6–15 points when compared to a bare wood frame system.
• Increases IIC level up to 10 points over wood frame and up to 20 points over concrete.
• Always with 40% pre-consumer recycled content.
• GREENGUARD Gold Certified.

PROJECT SPOTLIGHT
THE MERIWETHER CONDOMINIUMS
PORTLAND, OR

Location: South Waterfront Project, Portland, OR
Contractor: Hoffman Construction
Scope: 303,000 sq. ft. of 1” Maxxon Underlayment over Acousti-Mat II, 34,000 sq. ft. of corridors with 1/2” of approved Maxxon® Underlayment.

<table>
<thead>
<tr>
<th>Floor System</th>
<th>Topping</th>
<th>Insulation</th>
<th>Resilient Channel</th>
<th>Ceiling Drywall</th>
<th>Floor Covering</th>
<th>Rating</th>
<th>Test Numbers</th>
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<td>Yes</td>
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<td>1” (25 mm) Maxxon*</td>
<td>Yes</td>
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<td>5/8” (16 mm)</td>
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<td>18” PARALLEL CHORD TRUSS</td>
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<td>No</td>
<td>Armstrong Vinyl</td>
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<tr>
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SOUND TEST INFORMATION
F-SC (1/4” of approved Maxxon® Underlayment in the field) sound tests were performed in accordance with ASTM E-336 and E-492. Actual tests and assembly details are available upon request.
TECHNICAL DATA

**Description**
Entangled polymeric filament mat

**Thickenss**
0.4” (10.2 mm)

**Density**
4.65pcf (74.4 kg/m³)

**Thermal Resistance R-Value (ft²•°F•h/ Btu) Mat Only**
0.780

**Thermal Resistance R-Value (ft²•°F•h/ Btu) Mat/Underlayment System**
1.068

**Underlayment Depth**
See page 8

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**Pressure/Deflection**
500 psf (2440 kg/m²) …………… 0.087” (2.191 mm)
1000 psf (4880 kg/m²) …………… 0.131” (3.327 mm)
2000 psf (9760 kg/m²) …………… 0.189” (4.801 mm)
4000 psf (19520 kg/m²) ………… 0.256” (6.502 mm)

**Fire Performance**
ASTM E-84 w/ Maxxon Underlayment Fuel Contribution: 0
Smoke Density: 0
Flame Spread: 0

**Underlayment Depth**
5/8” (16 mm) Gypsum Board

**UL Fire Designs**
See page 10

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**BENEFITS**
- Exceeds code minimum to achieve the “Preferred Performance” higher IIC and STC levels, as outlined in the ICC Guideline for Acoustics. (For more information, see page 3.)
- Durable and proven solution — the only mat in the industry tested after 10 years of use. (Enkasonic retained 97% of original thickness, was as pliable as a new roll, and performed equally to a newly manufactured roll.)
- Increases IIC level up to 12 points over wood frame and up to 20 points over concrete.
- Increases STC rating 3–6 points compared to a 3/4” Maxxon Underlayment/wood frame system, 6–15 points when compared to a bare wood frame system.
- Always with 40% pre-consumer recycled content.
- GREENGUARD Gold Certified.

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**PROJECT SPOTLIGHT**
THE METROPOLITAN CONDOMINIUMS
OMNI SAN DIEGO HOTEL, SAN DIEGO, CA

**Contractor:** JWI Realty

**Architect:** Hornberger & Worstell, Inc.

**Scope:** 80,000 sq. ft. of Enkasonic® and Maxxon® Underlayment installed in 36 luxury condominiums on floors 22 through 32, which overlooks San Diego harbor and the San Diego Petco Ballpark.

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**SOUND TESTS**

<table>
<thead>
<tr>
<th>Floor System</th>
<th>Topping</th>
<th>Insulation</th>
<th>Resilient Channel</th>
<th>Ceiling Drywall</th>
<th>Floor Covering</th>
<th>Rating</th>
<th>Test Numbers</th>
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</thead>
<tbody>
<tr>
<td>2x10 WOOD JOIST</td>
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<tr>
<td>1 1/2” (38 mm) maxxon*</td>
<td>Yes</td>
<td>Yes</td>
<td>5/8” (16 mm)</td>
<td>None</td>
<td>60 STC, 54 IIC</td>
<td>82-166, 82-12</td>
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<td>1 1/2” (38 mm) maxxon*</td>
<td>Yes</td>
<td>Yes</td>
<td>5/8” (16 mm)</td>
<td>Vinyl</td>
<td>61 STC, 67 IIC</td>
<td>82-141, 82-9</td>
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<tr>
<td>2 layers - 3/8” plywood</td>
<td>Yes</td>
<td>Yes</td>
<td>5/8” (16 mm)</td>
<td>T&amp;G Oak</td>
<td>60 STC, 61 IIC</td>
<td>82-98, 82-7</td>
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<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>Plank</td>
<td>57 F-IC</td>
<td>82663-08-201-10</td>
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<tr>
<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>DuraCeramic Tile</td>
<td>61 F-IC</td>
<td>82663-07-201-10</td>
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</tr>
<tr>
<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>Wood</td>
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<td>No Enkasonic (control)</td>
<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>No</td>
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<td>None</td>
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<td>HAMBRO D-500 COMPOSITE FLOOR SYSTEM</td>
<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>Yes</td>
<td>1 1/2” (12 mm)</td>
<td>Vinyl</td>
<td>53 IIC</td>
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<tr>
<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>Yes</td>
<td>1 1/2” (12 mm)</td>
<td>Quarry Tile</td>
<td>54 IIC</td>
<td>7004078</td>
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<tr>
<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>Yes</td>
<td>1 1/2” (12 mm)</td>
<td>Floating laminate</td>
<td>53 IIC</td>
<td>7004080</td>
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<td>1 1/2” (38 mm) maxxon*</td>
<td>No</td>
<td>Yes</td>
<td>1 1/2” (12 mm)</td>
<td>Quarry Tile</td>
<td>54 STC</td>
<td>5004027</td>
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<td>Yes</td>
<td>Yes</td>
<td>2 layers - 5/8” (2 x 16 mm)</td>
<td>Ceramic</td>
<td>56 F-IC</td>
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<tr>
<td>1 1/2” (38 mm) maxxon*</td>
<td>Yes</td>
<td>Yes</td>
<td>2 layers - 5/8” (2 x 16 mm)</td>
<td>Ceramic</td>
<td>57 F-STC</td>
<td>48-06-02</td>
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</table>

SOUND TEST INFORMATION: Fire (Field Impact Insulation Class) sound tests were performed in accordance with ASTM E 1037 and E 1999. F-STC (Field Sound Transmission Class) sound tests were performed in accordance with ASTM 1366 and E 492. Actual tests and assembly details are available upon request. Maxxon Underlayments and Enkasonic are but single components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the installations of all components of construction to ensure the ultimate desired acoustical performance.

* Approved Maxxon Underlayment
**BENEFITS**

- Provides maximum sound isolation for open beam, concrete slab, and conventional wood frame construction.
- Puts a stop to noise that has been impossible to control.
- Increases IIC level up to 17 points over wood frame and up to 25 rating points (or more) over concrete.
- Increases STC rating 3–6 points compared to a 3/4" Maxxon Underlayment/wood frame system, 6–15 points when compared to a bare wood frame system.
- Always with 40% pre-consumer recycled content.
- GREENGUARD Gold Certified.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>Thickness</th>
<th>Density</th>
<th>Thermal Resistance</th>
<th>Underlayment Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>…Entangled polymeric filament mat</td>
<td>0.8&quot; (20.3 mm)</td>
<td>2.60 psf (42.6 kg/m²)</td>
<td>Mat Only: 1100</td>
<td>See page 8</td>
</tr>
<tr>
<td></td>
<td>1 1/2&quot; (38 mm)</td>
<td>1550</td>
<td>1 1/2&quot; Maxxon Underlayment</td>
<td>1.288</td>
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<td>Mat/Underlayment System</td>
<td>1.838</td>
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**Pressure/Deflection**

<table>
<thead>
<tr>
<th>Pressure/Deflection</th>
<th>30 psf (244 kg/m²)</th>
<th>0.05&quot; (1.27 mm)</th>
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</thead>
<tbody>
<tr>
<td>100 psf (488 kg/m²)</td>
<td>0.08&quot; (2.03 mm)</td>
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</tr>
<tr>
<td>200 psf (976 kg/m²)</td>
<td>0.15&quot; (3.81 mm)</td>
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</tr>
<tr>
<td>300 psf (1464 kg/m²)</td>
<td>0.21&quot; (5.33 mm)</td>
<td></td>
</tr>
</tbody>
</table>

**Fire Performance**

- ASTM E-84 w/ Maxxon Underlayment
  - Fuel Contribution: 0
  - Smoke Density: 0
  - Flame Spread: 0

<table>
<thead>
<tr>
<th>UL Fire Designs</th>
<th>ICC-ES Evaluation Report ESR-2540</th>
</tr>
</thead>
<tbody>
<tr>
<td>See page 10</td>
<td></td>
</tr>
</tbody>
</table>

**SOUND TESTS**

- **OPEN BEAM**
  - 1 1/2" (38 mm) Maxxon®
  - No Insulation
  - No Resilient Channel
  - None
  - Vinyl
  - 46 FIC
  - 02 31573.3

<table>
<thead>
<tr>
<th>Floor System</th>
<th>Topping</th>
<th>Insulation</th>
<th>Resilient Channel</th>
<th>Ceiling Drywall</th>
<th>Floor Covering</th>
<th>Rating</th>
<th>Test Numbers</th>
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</thead>
<tbody>
<tr>
<td>OPEN BEAM</td>
<td>1 1/2&quot; (38 mm) Maxxon®</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>Vinyl</td>
<td>46 FIC</td>
<td>02 31573.3</td>
</tr>
<tr>
<td></td>
<td>1 1/2&quot; (38 mm) Maxxon®</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>Floating Wood</td>
<td>52 FIC</td>
<td>02 31573.4</td>
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<td></td>
<td>1 1/2&quot; (38 mm) Maxxon®</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
<td>47 FSTC</td>
<td>02 31573.6</td>
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<td>Bare Floor over Open Beam (control)</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
<td>33 FIC</td>
<td>02 31573.5</td>
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<tr>
<td></td>
<td>2&quot; (51 mm) Maxxon®</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
<td>30 FSTC</td>
<td>02 31573.7</td>
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<tr>
<td>B ¼ CAST IN PLACE CONCRETE (203 mm)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
<td>65 FIC</td>
<td>03 56381.6</td>
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<tr>
<td></td>
<td>2&quot; (51 mm) Maxxon®</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
<td>61 FIC</td>
<td>03 56381.5</td>
</tr>
<tr>
<td></td>
<td>Bare Concrete, No Acousti-Mat (control)</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
<td>36 FIC</td>
<td>03 56381.1</td>
</tr>
<tr>
<td>STEEL JOIST 1 2/3&quot; DEEP (203 mm w/ 3/4&quot; (19 mm) T&amp;G Plywood Subfloor)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>5/8&quot; (16 mm)</td>
<td>Ceramic</td>
<td>57 FIC</td>
</tr>
<tr>
<td></td>
<td>3/4&quot; (19 mm) T&amp;G</td>
<td>Yes</td>
<td>Yes</td>
<td>5/8&quot; (16 mm)</td>
<td>Ceramic</td>
<td>57 FIC</td>
<td>04-22-2</td>
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<td></td>
<td>Steel Joist</td>
<td>Yes</td>
<td>Yes</td>
<td>5/8&quot; (16 mm)</td>
<td>Wood</td>
<td>58 FIC</td>
<td>04-23</td>
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<td></td>
<td>3/4&quot; (19 mm) T&amp;G</td>
<td>Yes</td>
<td>Yes</td>
<td>5/8&quot; (16 mm)</td>
<td>Ceramic</td>
<td>58 FIC</td>
<td>480-006-03</td>
</tr>
<tr>
<td></td>
<td>Paralleled 20&quot; deep, 24&quot; OC</td>
<td>Yes</td>
<td>Yes</td>
<td>2 layers - 5/8&quot; (2 x 16 mm)</td>
<td>Ceramic</td>
<td>59 FSTC</td>
<td>480-006-04</td>
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<tr>
<td></td>
<td>3/4&quot; (19 mm) T&amp;G</td>
<td>Yes</td>
<td>Yes</td>
<td>2 layers - 5/8&quot; (2 x 16 mm)</td>
<td>Tile</td>
<td>63 FIC</td>
<td>R05-200</td>
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<tr>
<td></td>
<td>Paralleled 20&quot; deep, 24&quot; OC</td>
<td>Yes</td>
<td>Yes</td>
<td>2 layers - 5/8&quot; (2 x 16 mm)</td>
<td>Wood</td>
<td>59 FIC</td>
<td>R05-200</td>
</tr>
</tbody>
</table>

**PROJECT SPOTLIGHT**

**SECURITY WAREHOUSE LOFTS**

MINNEAPOLIS, MN

- Contractor: J.E. Dunn Construction
- Architect: Oertel Architects
- Scope: 80,000 sq. ft. of Acousti-Mat® 3 installed over leveled floors, then covered with 2" of Maxxon® Underlayment. As the final topping, LevelRight® WearTop™ provides a concrete-look wear surface.

**PROJECT SPOTLIGHT**

**WIREWORKS LOFTS**

ST. LOUIS, MO

- Contractor: E.M. Harris Construction Co.
- Architect: Johannes/Cohen Collaborative
- Scope: 16,000 sq. ft. of Acousti-Mat® 3 covered with 1 1/2" approved Maxxon® Underlayment; 24,000 sq. ft. of Acousti-Mat® II covered with 1 1/2" approved Maxxon Underlayment.

**SOUND TEST INFORMATION**

- FIC (Field Impact Insulation Class) sound tests were performed in accordance with ASTM E 1007 and E989. FSTC (Field Sound Transmission Class) sound tests were performed in accordance with ASTM E 336 and E 492. Actual tests and assembly details are available upon request. Maxxon Underlayments and Acousti-Mat® 3 can be single components of an effective sound control system. Any sound control system is better than its weakest component. Care must be taken in the installation of all components of construction to ensure the ultimate designed acoustical performance.

* Approved Maxxon Underlayment
MAXXON® CSM [CRACK SUPPRESSION MAT] AND MAXXON® REINFORCEMENT

Project conditions such as potential movement of the subfloor — which could cause ceramic tile or other hard surface floor goods to crack — often require reinforcement of the underlayment.

Maxxon CSM and Maxxon Reinforcement provide reliable and cost-effective alternatives to traditional metal lath, which is difficult to install and has been rapidly increasing in cost. Using Maxxon CSM or Maxxon Reinforcement can also reduce the depth of the underlayment over a sound control mat.

MAXXON CSM

- Passes Extra Heavy ratings tests by the TCNA
- Water resistant fabric
- 40% pre-consumer recycled content
- Always a “green” building material
- May help contribute points toward LEED® project certification

MAXXON REINFORCEMENT

- Excellent durability
- Light — easy to handle
- No memory (unlike metal lath)
- Dimensionally stable in hot weather; not brittle in cold
- Long rolls reduce installation cost (compared to conventional galvanized metal lath)
- Can be used over wood, concrete and precast plank or in conjunction with a sound control mat

MAXXON CSM OR MAXXON REINFORCEMENT MAY BE USED:

- To reduce underlayment thickness to 3/4” (19 mm) over Acousti-Mat II or 1” (25 mm) over Enkasonic systems
- As the reinforcement on an Acousti-Mat 3 system
- In conjunction with any Maxxon Underlayment to reduce pour depth

ACOUSTI-MAT® & ENKASONIC® 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-strip 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 rooms receiving Acousti-Mat 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 screed to finish the underlayment surface. (If Acousti-Mat 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

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

UNDERLAYMENT DEPTH

<table>
<thead>
<tr>
<th>Sound Mat</th>
<th>Underlayment Depth</th>
<th>Underlayment Depth with Reinforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACOUSTIMAT I</td>
<td>3/4” (19 mm)</td>
<td>3/4” (19 mm)</td>
</tr>
<tr>
<td>ACOUSTIMAT II</td>
<td>1” (25 mm)</td>
<td>3/4” (19 mm)</td>
</tr>
<tr>
<td>ENKASONIC</td>
<td>1 1/2” (38 mm)</td>
<td>1 1/2” (38 mm)</td>
</tr>
<tr>
<td>ACOUSTIMAT 3</td>
<td>1 1/2” (38 mm) plus Maxxon CSM, Maxxon Reinforcement or metal lath</td>
<td>1 1/2” (38 mm)</td>
</tr>
</tbody>
</table>

1-800-356-7887

8
INSTALLATION DETAILS

Typical installation detail drawings. For alternate detail drawings, including transition options, please contact your Maxxon Regional Representative.

ACOUSTI-MAT® I

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Wall isolation**
- 1/4” Acousti-Mat I
- Wood or concrete subfloor

** Gypsum Wall Board must be installed within 1/2 inch of subfloor

---

ACOUSTI-MAT® II

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Wall isolation**
- 1/4” Acousti-Mat II
- Wood or concrete subfloor

** Gypsum Wall Board must be installed within 1/2 inch of subfloor

---

ENKASONIC®

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Wall isolation**
- 1-1/4” Maxxon Bulkhead
- 1-1/2” Maxxon Plywood or OSB subfloor

** Wall isolation is installed around the perimeter of the entire room to receive Acousti-Mat I, and around any floor penetrations such as toilet valves, electrical, plumbing, etc.

---

ACOUSTI-MAT® 3

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Wall isolation**
- 8” Acousti-Mat 3
- Wood or concrete subfloor

** Gypsum Wall Board must be installed within 1/2 inch of subfloor

---

AcoustiMat® I Hard Surface Transition

- VCT or other Floor Goods
- AcoustiMat® Isolation Strip
- Carpet to Vinyl Trim
- Carpet

---

AcoustiMat® I with Maxxon® CSM or MR

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Wall isolation**
- 1/4” Acousti-Mat I
- Wood or concrete subfloor

** Gypsum Wall Board must be installed within 1/2 inch of subfloor

---

AcoustiMat® II with Maxxon® CSM or MR

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Wall isolation**
- 1/4” Acousti-Mat II
- Wood or concrete subfloor

** Gypsum Wall Board must be installed within 1/2 inch of subfloor

---

AcoustiMat® II Hard Surface Transition

- VCT or other Floor Goods
- AcoustiMat® Isolation Strip
- Carpet to Vinyl Trim
- Carpet

---

AcoustiMat® II Hard Surface Transition

- VCT or other Floor Goods
- AcoustiMat® Isolation Strip
- Carpet to Vinyl Trim
- Carpet

---

AcoustiMat® 3 with Maxxon® CSM or MR

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Wall isolation**
- 8” Acousti-Mat 3
- Wood or concrete subfloor

** Gypsum Wall Board must be installed within 1/2 inch of subfloor

---

AcoustiMat® 3 Hard Surface Transition

- VCT or other Floor Goods
- AcoustiMat® Isolation Strip
- Carpet to Vinyl Trim
- Carpet

---

AcoustiMat® 3 Hard Surface Transition

- VCT or other Floor Goods
- AcoustiMat® Isolation Strip
- Carpet to Vinyl Trim
- Carpet

---

www.MaxxonCorporation.com
Acousti-Mat® got a high performance upgrade! Acousti-Mat II HP, Enkasonic HP, and Acousti-Mat 3 HP provide an added layer of sound control through the addition of a high performance acoustical fabric that is laminated to the bottom of each mat’s entangled mesh core. Topped with a high-strength Maxxon Underlayment, these mats add additional sound control without adding any height.

Acousti-Mat II HP increases the acoustical performance of a wood floor/ceiling assembly by up to 1.6 IIC points and up to 20 points over concrete construction. Acousti-Mat 3 HP offers an alternative wherever ultimate sound control is needed. This mat adds up to 22 points in wood frame construction and up to 30 points in concrete construction.

For more information on high performance sound control solutions, contact your Maxxon Regional Representative at (800) 356-7887 or visit www.maxxon.com.

FIRE & SOUND RATINGS

FIRE RATINGS

<table>
<thead>
<tr>
<th>UL Design</th>
<th>FIRE RATINGS</th>
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</thead>
<tbody>
<tr>
<td>G230</td>
<td>IIC: 62</td>
</tr>
<tr>
<td>G566</td>
<td>IIC: 62</td>
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<tr>
<td>J020</td>
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<td>L006</td>
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<td>J212</td>
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SOUND TEST INFORMATION

All acoustical testing was done by Architectural Testing, Riverbank Testing Laboratories, Intest, Inc., InterTek Laboratories; Twin City Testing Corporation; D.L. Adams Associates, L.T.D.; Veneklasen Associates; NGC Testing Services; AV Group or JGL Acoustics. For type of floor covering used, channel spacing and other information, contact Maxxon for test reports by number. The Maxxon floor underlayments and Acousti-Mat/Enkasonic are but single components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the installation of all components of construction to ensure the ultimate designed acoustical performance.

CODE LISTINGS

Maxxon Floor Underlayment systems are recognized by ICC-ES, U.S. Dept. of Housing and Urban Development 951i, CODE LISTINGS, ACOUSTI-MAT, Acousti-Mat II HP, Enkasonic HP, and Acousti-Mat 3 HP. For type of floor covering used, channel spacing and other information, contact Maxxon for test reports by number. The Maxxon floor underlayments and Acousti-Mat/Enkasonic are but single components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the installation of all components of construction to ensure the ultimate designed acoustical performance.

ACOUSTI-MAT® Superior Sound Control Systems

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

Maxxon Underlayment systems are warranted to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the underlayment ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of any underlayment. Because Maxxon Corporation does not install the underlayment, it cannot be held responsible for the results of the application. Maxxon Corporation specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques. This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of a particular purpose and of weather conditions, structural movement, structural design flaws and application techniques. This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of a particular purpose and of all other obligations or liabilities on Maxxon Corporation’s part. Maxxon Corporation neither assumes, nor authorizes any person to assume for Maxxon Corporation, any liability with the sale and installation of any of its floor underlayments.

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