


# 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 500 million square feet

# WHY ACOUSTI-MAT?



## BECAUSE ONE ROOM'S FLOOR IS ANOTHER ROOM'S CEILING.

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 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4 and Acousti-Mat 3/4 Premium 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 Underlayments form a warranted engineered system, offering peace of mind in your sound system.

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

The entangled mesh Acousti-Mat sound control mats may also help contribute toward points for LEED® project certification. For information regarding Acousti-Mat's contribution to LEED, contact your Regional Representative at (800) 356-7887 or visit [www.maxxon.com/go\\_green](http://www.maxxon.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 CODE?

Maxxon sound control mats are in numerous codes as well as in over 100 UL Fire Designs. See the chart on page 12 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 has been observed that this code level STC and IIC performance does not guarantee acoustical privacy or that complaints will not be

received. In response, the authors of the International Building Code, the International Code Council, have issued an appendix to the code called ICC G2-2010 Guideline for Acoustics. This guideline concedes that current sound code minimums are not acceptable levels of sound control and establishes two additional levels of acoustical performance. Please refer to the chart below for the International Code Council's Guideline for Acoustics.

### ICC G2-2010 GUIDELINE FOR ACOUSTICS

	Laboratory Sound Rating	Field Sound Rating
Code Minimum	50 STC/IIC	45 F-STC/F-IIC
Acceptable Performance	55 STC/IIC	52 F-STC/F-IIC
Preferred Performance	60 STC/IIC	57 F-STC/F-IIC

### 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 premium line of sound control solutions, Acousti-Mat Premium series, which maximizes sound control while keeping topping depth at a minimum. See page 4 to learn more.

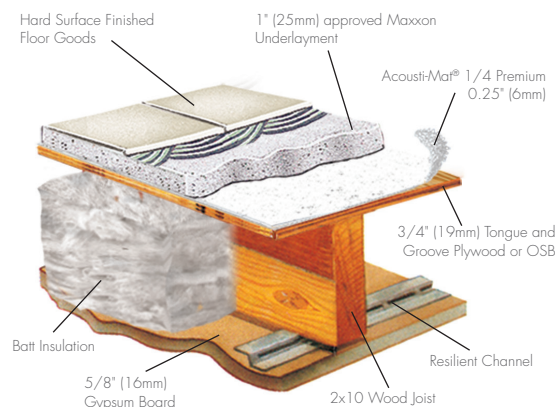


Mat	Commonly used in Assembly Type			
	Wood	Open Beam	Concrete	Steel Deck
Acousti-Mat 1/8	X		X	
Acousti-Mat 1/4	X		X	X
Acousti-Mat 1/4 Premium	X		X	X
Acousti-Mat 3/8	X		X	X
Acousti-Mat 3/8 Premium	X		X	X
Acousti-Mat 3/4	X	X	X	X
Acousti-Mat 3/4 Premium	X	X	X	X

# PREMIUM UPGRADE

As you determine the proper level of sound control for your project, keep in mind Maxxon's new Premium upgrade. Available on Acousti-Mat 1/4, Acousti-Mat 3/8 and Acousti-Mat 3/4, this innovative upgrade adds the noise deadening technology of a high performance acoustical fabric that is laminated to the bottom of each mat's entangled mesh core. The Premium fabric creates an absorptive cushion upon which the entangled mesh "spring" rests. The Acousti-Mat Premium line of sound control mats reduces impact noise without adding to the overall floor height, making it an ideal solution where floor height considerations play a factor or simply to provide upgraded sound control without adding to the required topping depth. Detailed information on Acousti-Mat 1/4 Premium, Acousti-Mat 3/8 Premium and Acousti-Mat 3/4 Premium is available on pages 6-9 of this brochure.

## ADDED IMPACT SOUND CONTROL WITHOUT ADDED HEIGHT.



## ACOUSTI-MAT SYSTEM SELECTOR

### INTERACTIVE SYSTEM SELECTOR

Maxxon Corporation now offers an Interactive System Selector to help you identify the best sound control system for your project. A few clicks of your mouse allows you to see how recommended Acousti-Mat products impact the sound control performance of your assembly. In addition to providing approximate sound ratings, the Interactive System Selector helps to identify the best solutions for upgraded sound control and matches your selections to a common UL Fire Rated Design. The Interactive System Selector also allows you to e-mail detail drawings and to request sound tests based on your selections. Get started at [www.maxxon.com/selector](http://www.maxxon.com/selector).



### SYSTEM SELECTOR CHART\*

Mat	Topping Min.	Total System Height	Approximate Sound Rating**		Typical Code Performance*** <small>(Using ICC G2-2010 Guideline for Acoustics)</small>
			F-IIC	F-STC	
Acousti-Mat 1/8	3/4" (19 mm)	≈ 1"	50-53	57-59	Code Minimum
Acousti-Mat 1/4	1" (25 mm)	1 1/4"	51-54	58-60	Code Minimum
Acousti-Mat 1/4 Premium	1" (25 mm)	≈ 1 1/4"	54-57	58-60	Acceptable
Acousti-Mat 3/8	1" (25 mm)	1 3/8"	54-57	58-60	Acceptable
Acousti-Mat 3/8 Premium	1" (25 mm)	≈ 1 3/8"	57-60	59-61	Preferred
Acousti-Mat 3/4	1 1/2" (38 mm) Reinforced	2 1/4"	57-60	59-62	Preferred
Acousti-Mat 3/4 Premium	1 1/2" (38 mm) Reinforced	≈ 2 1/4"	61-64	59-62	Preferred

\* Approximate ratings above include a hard surface finished floor good in traditional wood frame construction. Actual ratings may vary based on project variables. F-IIC/F-STC levels above are an approximation of sound reduction potential in a well-designed, acoustically sound assembly. It should be expected that carpet and pad will significantly increase the overall performance of the sound control system. This information is based on solid data and years of experience in the underlayment industry, however, due to the many variables beyond our control (for example quality control of drywall installation, type of resilient channel, design and density of the building materials, flanking paths, etc.), it should not be considered a guarantee of performance. The code performance listed represents typical levels found in wood frame construction utilizing insulation, resilient channel and gypsum board ceiling.

\*\* See Page 3 for explanation of ICC G2-2010 Guideline for Acoustics.

\*\*\* Consult the System Selector and/or Maxxon for approximate sound ratings over concrete or steel deck.



# ACOUSTI-MAT® — BUILD FOR THE REAL WORLD

You know “good enough” sound control meets code requirements. But you also know toddlers squeal as they run down hallways, teenagers love Taylor Swift, and 20-somethings climb onto their treadmills about the same time others are climbing into bed.

Sure, you know how to meet minimum sound requirements. But you choose to build for the quiet and comfort of real people. People who eat, sleep, dance, study, laugh and live in the real world. Acousti-Mat is for professionals who build wood-frame, multifamily homes for the real world. Professionals who consider performance as well as price.

That’s why we’ve been revolutionizing the sound control industry since 1972. And, it’s why we offer 7 sound control underlayment solutions today. Each living up to our promise of performance and dependability. Add easy ordering, continuing education, and an exceptional warranty and you’d think you had everything you need to build the best floor assembly possible.

But, there’s one more ingredient we’re proud to include with every Acousti-Mat product... real service.



## VIRTUAL ACOUSTI-MAT® APARTMENT

Maxxon is excited to launch a truly ground breaking, first of its kind, tool to the sound control industry - the Virtual Acousti-Mat® Apartment. This virtual reality themed walk through will allow users to experience common multifamily sounds combined with the powerful sound reduction of Acousti-Mat.

In each of the six hotspot locations, users will be introduced to a variety of room-specific noises upstairs neighbors may produce. You will have the option to hear each noise in 6 levels of sound control by clicking on the appropriate logo:

- 3/4" Underlayment, no sound mat
- 3/4" Underlayment & **ACOUSTI TOP**
- **ACOUSTI MAT** 1/8
- **ACOUSTI MAT** 1/4
- **ACOUSTI MAT** 3/8
- **ACOUSTI MAT** 3/4

Visit [www.Maxxon.com/VAA](http://www.Maxxon.com/VAA) today!



# ACOUSTI MAT

## DOUBLE MAT SYSTEM

### TECHNICAL DATA

#### Description

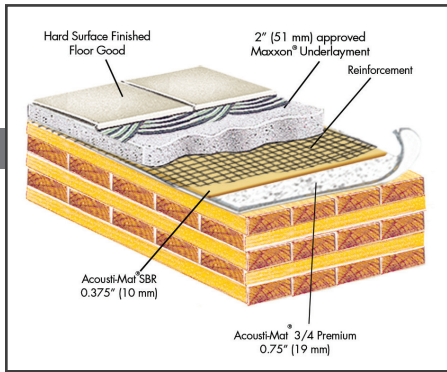
Acousti-Mat 3/4 .....Entangled polymeric filament mat (optional Premium layer – Microfibrous non-woven fabric)  
Acousti-Mat SBR .....Blend of Styrene Butadiene Rubber

**Thickness** (nominal) .... Acousti-Mat 3/4 Premium – 3/4" (19mm)  
Acousti-Mat SBR – 3/8" (10mm)

**Underlayment Depth**..... min. 2" (51 mm)

**UL Fire Designs** ..... See page 12

**Fire & Sound Code Listings** ..... See page 12



### BENEFITS

- Acousti-Mat® SBR paired with either Acousti-Mat® 3/4 or Acousti-Mat® 3/4 Premium to form the Double Mat System
- The proven solution for the toughest assemblies like Open Beam and Mass Timber construction
- Sound Tests available
- Sound control that stays in place under a Maxxon Underlayment when floor goods are removed
- Enhanced IIC & STC performance
- Solutions available at 3" or less

### PROJECT SPOTLIGHT

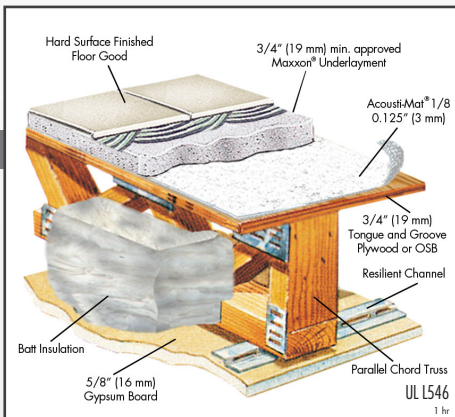


### C&E LOFTS ST. PAUL, MN

Contractor: Frana Companies

Architect: BKV Group

Scope: 32,000 sq. ft. of Acousti-Mat 1/4, 56,000 sq. ft. of reinforced double mat system of Acousti-Mat SBR and Acousti-Mat 3/4 topped with 88,000 sq. ft. of Gyp-Crete 2000/3.2K and 3/4" Commercial Topping.



# ACOUSTI MAT 1/8

### TECHNICAL DATA

**Description** ..... Entangled polymeric filament mat

**Thickness** ..... nominal 1/8" (3 mm)

**Composite Weight** ..... ≈8.45 oz/y<sup>2</sup>

**Thermal Resistance R-Value** (ft<sup>2</sup>•°F•h/BTU)

Mat Only ..... 0.400

3/4" Maxxon Underlayment ..... 0.144

Mat/Underlayment System ..... 0.544

**Underlayment Depth** ..... See page 4

#### Pressure/Deflection

50 psf (244 kg/m<sup>2</sup>) ..... 0.013" (0.33 mm)

100 psf (488 kg/m<sup>2</sup>) ..... 0.017" (0.43 mm)

200 psf (976 kg/m<sup>2</sup>) ..... 0.021" (0.53 mm)

300 psf (1,465 kg/m<sup>2</sup>) ..... 0.025" (0.63 mm)

#### Fire Performance ASTM E-84 w/ Maxxon Underlayment

Fuel Contribution ..... 0

Smoke Contribution ..... 0

Flame Spread ..... 0

**UL Fire Designs** ..... See page 12

**Fire & Sound Code Listings** ..... See page 12

### 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 STC rating 6–15 points when compared to a bare wood frame system
- Increases IIC rating up to 9 points over wood frame
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet

### PROJECT SPOTLIGHT



### BREWHOUSE INN MILWAUKEE, WI

Contractor: Gorman & Company

Architect: Gorman & Company

Scope: EPS board and Gyp-Crete 2000®/3.2K were used to remove up to 7" of slope from existing floors. Acousti-Mat® 1/8 and Gyp-Crete 2000/3.2K were installed for superior sound control. Total project was 76,235 sq. ft.



# ACOUSTI-MAT 1/4

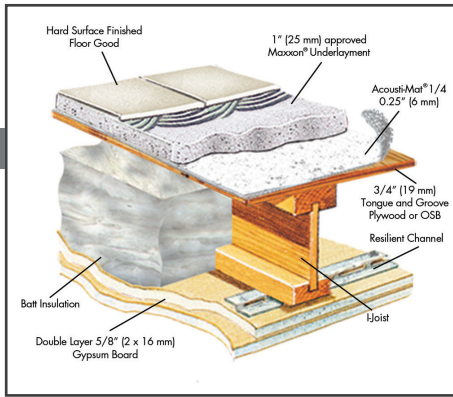
## TECHNICAL DATA

**Description** ..... Entangled polymeric filament mat  
**Thickness** ..... 1/4" (6 mm)  
**Composite Weight** ..... ≈ 13.95 oz/y<sup>2</sup>  
**Thermal Resistance R-Value** (ft<sup>2</sup>•°F•h/BTU)  
 Mat Only ..... 0.620  
 1" Maxxon Underlayment ..... 0.192  
 Mat/Underlayment System ..... 0.812  
**Underlayment Depth** ..... See page 4

**Pressure/Deflection**  
 500 psf (2,441 kg/m<sup>2</sup>) ..... 0.044" (1.12 mm)  
 1,000 psf (4,882 kg/m<sup>2</sup>) ..... 0.067" (1.70 mm)  
 2,000 psf (9,765 kg/m<sup>2</sup>) ..... 0.188" (4.78 mm)

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

**UL Fire Designs** ..... See page 12  
**Fire & Sound Code Listings** ..... See page 12



## BENEFITS

- Low 1/4" profile allows a thinner floating floor composite
- Requires only 1" Maxxon Underlayment (3/4" with reinforcement)
- Increases STC rating 6–15 points when compared to a bare wood frame system
- Increases IIC rating up to 10 points over wood frame and up to 20 points over concrete
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet

## PROJECT SPOTLIGHT



## EASTERN NEW MEXICO UNIVERSITY

PORTALES, NM

Contractor: Bradbury Stamm Construction, Inc.

Architect: Van H. Gilbert Architect, PC

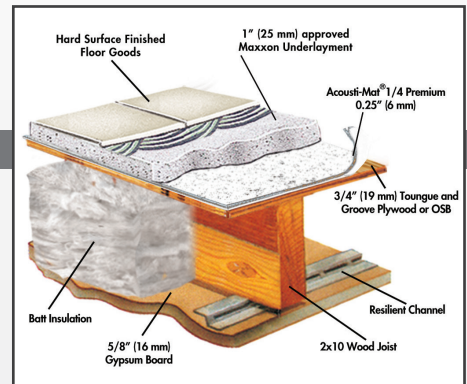
Scope: 47,700 sq. ft. of Acousti-Mat® 1/4 and Maxxon® Reinforcement topped with Level-Right®.

# ACOUSTI-MAT 1/4 PREMIUM

## TECHNICAL DATA

**Description** ..... Entangled polymeric filament mat attached to water-resistant fabric  
 Premium Layer ..... Microfibrous non-woven fabric  
**Thickness, nominal** ..... 1/4" (6 mm)  
**Composite Weight** ..... ≈ 19.95 oz/y<sup>2</sup>  
**Thermal Resistance R-Value** (ft<sup>2</sup>•°F•h/BTU)  
 Mat Only ..... 1.050  
 1" Maxxon Underlayment ..... 0.192  
 Mat/Underlayment ..... 1.242  
**Underlayment Depth** ..... See page 4

**Pressure/Deflection**  
 500 psf (2,441 kg/m<sup>2</sup>) ..... 0.047" (1.19 mm)  
 1,000 psf (4,882 kg/m<sup>2</sup>) ..... 0.068" (1.72 mm)  
 2,000 psf (9,765 kg/m<sup>2</sup>) ..... 0.098" (2.48 mm)  
**Fire Performance** ASTM E-84  
 Fuel Contribution ..... 0  
 Smoke Density ..... 0  
 Flame Spread ..... 0  
**UL Fire Designs** ..... See page 12  
**Fire & Sound Code Listings** ..... See page 12



## BENEFITS

- Acousti-Mat 1/4 Premium attaches an acoustical fabric entangled mesh mat, for an overall approximate 1/4" mat profile
- Requires only a 1" topping (3/4" with reinforcement)
- Increases STC rating 6–15 points when compared to a bare wood frame system
- Increases IIC rating up to 13 points over wood frame and up to 20 points over concrete
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet

## PROJECT SPOTLIGHT



## SOLARIUM AT PONCE HALL FLAGLER COLLEGE

ST. AUGUSTINE, FL

Contractor: A.D. Davis Construction Corp.

Architect: Kenneth Smith Architects, Inc.

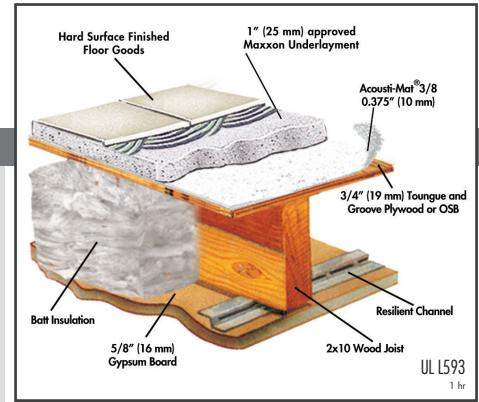
Scope: 2,700 sq. ft. of Acousti-Mat® 1/4 Premium topped with 1–3" of Maxxon® Underlayment.

# ACOUSTI MAT 3/8

## TECHNICAL DATA

<b>Description</b> .....	Entangled polymeric filament mat
<b>Thickness</b> .....	3/8" (10 mm)
<b>Composite Weight</b> .....	≈21.54 oz/y <sup>2</sup>
<b>Thermal Resistance</b> R-Value (ft <sup>2</sup> •°F•h/BTU)	
Mat Only .....	0.780
1" Maxxon Underlayment .....	0.192
Mat/Underlayment System .....	0.972
<b>Underlayment Depth</b> .....	See page 4

<b>Pressure/Deflection</b>	
500 psf (2,441 kg/m <sup>2</sup> ) .....	0.067" (1.70 mm)
1,000 psf (4,882 kg/m <sup>2</sup> ) .....	0.116" (2.95 mm)
2,000 psf (9,765 kg/m <sup>2</sup> ) .....	0.172" (4.37 mm)
<b>Fire Performance</b> ASTM E-84 w/ Maxxon Underlayment	
Fuel Contribution .....	0
Smoke Density .....	0
Flame Spread .....	0
<b>UL Fire Designs</b> .....	See page 12
<b>Fire &amp; Sound Code Listings</b> .....	See page 12



## BENEFITS

- Durable and proven solution — the only mat in the industry tested after 10 years of use. (Acousti-Mat 3/8 retained 97% of original thickness, was as pliable as a new roll, and performed equally to a newly manufactured roll.)
- Increases IIC rating up to 13 points over wood frame and up to 20 points over concrete
- Requires only a 1" topping (3/4" with reinforcement)
- 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)
- Sound tests available on sales/technical sheet
- Increases STC rating 6–15 points when compared to a bare wood frame system
- GREENGUARD Gold Certified

## PROJECT SPOTLIGHT

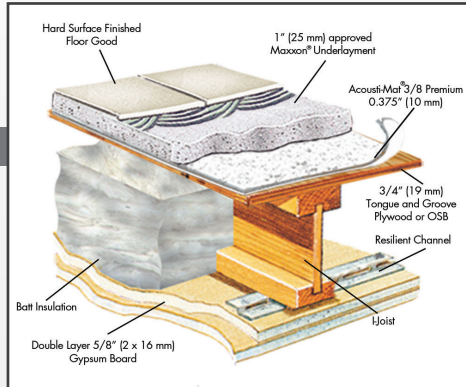


## THE METROPOLITAN CONDOS OMNI SAN DIEGO HOTEL SAN DIEGO, CA

Contractor: JMI Realty

Architect: Hornberger & Worstell, Inc.

Scope: 80,000 sq. ft. of Acousti-Mat® 3/8 and Maxxon® Underlayment installed in 36 luxury condominiums on floors 22 through 32, which overlooks San Diego harbor and the San Diego Petco Ballpark.



# ACOUSTI MAT 3/8 PREMIUM

## TECHNICAL DATA

<b>Description</b> .....	Entangled polymeric filament mat attached to water-resistant fabric
Premium Layer .....	Microfibrous non-woven fabric
<b>Thickness, nominal</b> .....	3/8" (10 mm)
<b>Composite Weight</b> .....	≈23.54 oz/y <sup>2</sup>
<b>Thermal Resistance</b> R-Value (ft <sup>2</sup> •°F•h/BTU)	
Mat Only .....	1.380
1" Maxxon Underlayment .....	0.192
Mat/Underlayment .....	1.572
<b>Underlayment Depth</b> .....	See page 4

<b>Pressure/Deflection</b>	
500 psf (2,441 kg/m <sup>2</sup> ) .....	0.069" (1.75 mm)
1,000 psf (4,882 kg/m <sup>2</sup> ) .....	0.146" (3.71 mm)
2,000 psf (9,765 kg/m <sup>2</sup> ) .....	0.264" (6.71 mm)
<b>Fire Performance</b> ASTM E-84	
Fuel Contribution .....	0
Smoke Density .....	0
Flame Spread .....	0
<b>UL Fire Designs</b> .....	See page 12
<b>Fire &amp; Sound Code Listings</b> .....	See page 12

## BENEFITS

- Acousti-Mat 3/8 Premium combines acoustical fabric with entangled mesh for an overall approximate 3/8" (10 mm) mat profile
- Requires only a 1" topping (3/4" reinforcement)
- Increases IIC rating up to 17 points over wood frame and up to 25 points over concrete
- Increases STC rating 6–15 points when compared to a bare wood frame system
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet

## PROJECT SPOTLIGHT



## KRJ BUILDING NORTH FARGO, ND

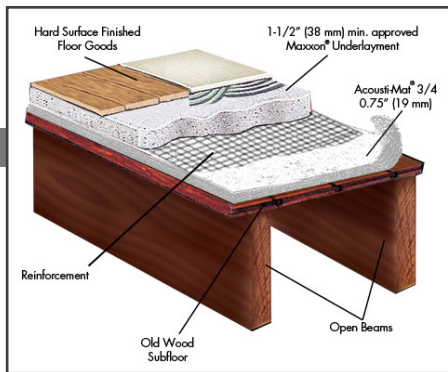
Contractor: MBA Development Co.

Architect: Mutchler Bartram Architects

Scope: Gyp-Crete 2000®/3.2K poured as a leveling layer. 9,000 sq. ft. of Acousti-Mat® 3/8 Premium topped with Gyp-Crete 2000/3.2K poured at a depth of 1 1/8".



# ACOUSTI-MAT 3/4



## TECHNICAL DATA

<b>Description</b> .....	Entangled polymeric filament mat
<b>Thickness</b> .....	3/4" (19 mm)
<b>Composite Weight</b> .....	≈21.54 oz/y <sup>2</sup>
<b>Thermal Resistance R-Value</b> (ft <sup>2</sup> •°F•h/BTU)	
Mat Only .....	1.550
1½" Maxxon Underlayment .....	0.288
Mat/Underlayment System .....	1.838
<b>Underlayment Depth</b> .....	See page 4

## Pressure/Deflection

50 psf (244 kg/m <sup>2</sup> ).....	0.05" (1.27 mm)
100 psf (488 kg/m <sup>2</sup> ).....	0.08" (2.03 mm)
200 psf (976 kg/m <sup>2</sup> ).....	0.15" (3.81 mm)
300 psf (1,465 kg/m <sup>2</sup> ).....	0.21" (5.33 mm)

## Fire Performance ASTM E-84 w/ Maxxon Underlayment

Fuel Contribution.....	0
Smoke Density .....	0
Flame Spread .....	0

## UL Fire Designs .....

## Fire & Sound Code Listings .....

## 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 rating up to 17 points over wood frame and up to 25 rating points (or more) over concrete
- Increases STC rating 6–15 points when compared to a bare wood frame system
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet

## PROJECT SPOTLIGHT



## DISTRICT CONDOS - PHASE II WINNIPEG, MB CANADA

Contractor: Streetside Development Corporation

Architect: 701 Architecture, Inc.

Scope: 32,000 sq. ft. of Maxxon® Moistop, Reinforced Acousti-Mat® 3/4 topped with 1½" Gyp-Crete 2000®/3.2K.

# ACOUSTI-MAT 3/4 PREMIUM

## TECHNICAL DATA

<b>Description</b> .....	Entangled polymeric filament mat attached to water-resistant fabric
Premium Layer .....	Microfibrous non-woven fabric
<b>Thickness, nominal</b> .....	3/4" (19 mm)
<b>Composite Weight</b> .....	≈30.34 oz/y <sup>2</sup>
<b>Thermal Resistance R-Value</b> (ft <sup>2</sup> •°F•h/BTU)	
Mat Only .....	2.150
1½" Maxxon Underlayment .....	0.288
Mat/Underlayment.....	2.438
<b>Underlayment Depth</b> .....	See page 4

## Pressure/Deflection

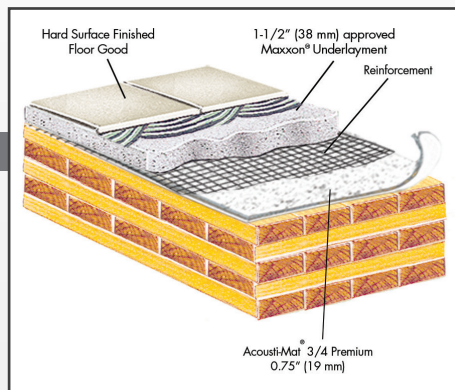
50 psf (244 kg/m <sup>2</sup> ).....	0.013" (0.33 mm)
100 psf (488 kg/m <sup>2</sup> ).....	0.031" (0.79 mm)
500 psf (2,441 kg/m <sup>2</sup> ).....	0.128" (3.25 mm)
1,000 psf (4,882 kg/m <sup>2</sup> ).....	0.218" (5.54 mm)

## Fire Performance ASTM E-84

Fuel Contribution.....	0
Smoke Density .....	0
Flame Spread .....	0

## UL Fire Designs .....

## Fire & Sound Code Listings .....



## BENEFITS

- Acousti-Mat 3/4 Premium combines acoustical fabric with entangled mesh, for an overall approximate 3/4" mat profile
- Increases IIC rating up to 20 points over wood frame and up to 30 points over concrete
- Increases STC rating 6–15 points when compared to a bare wood frame system
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet

## PROJECT SPOTLIGHT



## MEYER RAAPKE FLATS OMAHA, NE

Contractor: KSI Construction

Architect: Alley Poyner Macchietto Architecture PC

Scope: 18,000 sq. ft. of 1½" Gyp-Crete® to flatten floor. Acousti-Mat® 3/4 Premium and Maxxon Reinforcement with 1¼" Gyp-Crete 2000®/3.2K on second, third and fourth floors.

# MAXXON® REINFORCEMENT & MAXXON® FIBERS

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

## 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 REINFORCEMENT MAY BE USED:

- To reduce underlayment thickness to 3/4" (19 mm) over Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8 and Acousti-Mat 3/8 Premium
- As the reinforcement on an Acousti-Mat 3/4, Acousti-Mat 3/4 Premium or Double Mat system
- To reinforce underlayment in various specialty applications

## MAXXON FIBERS

- Ideal for wood frame and multi family construction
- Excellent “no fuzz” finishability with improved impact resistance
- Provides multi-dimensional reinforcement
- Enhances durability and toughness of Maxxon Underlayment



# ACOUSTI-MAT® INSTALLATION

Note: Installation procedures will vary slightly for Double Mat System. Contact Maxxon Corporation for specific installation procedures.



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.\*

*\*Once the mat has been loose laid, no further penetrations should be made. Rigid attachment through the sound mat minimizes the sound performance.*



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.



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.)

†See page 4 for underlayment depth guidelines



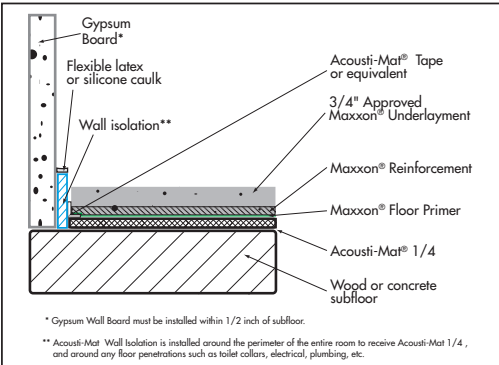
In as little as two hours after the underlayment has been poured, the floor is hard enough to accommodate foot traffic, so light subtrades may continue working. Total drying time varies depending on the type of finished floor goods to be installed, but is generally completed within 10 to 14 days.



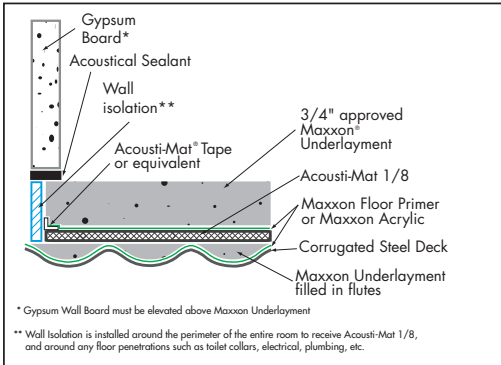
# INSTALLATION DETAILS

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

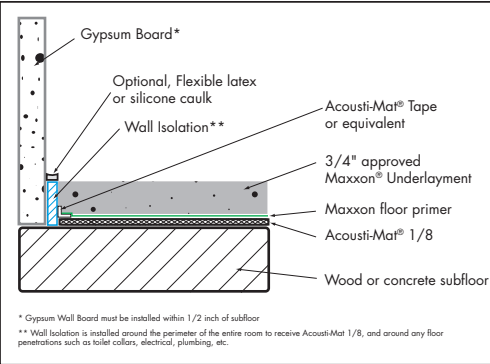
## ACOUSTI-MAT® 1/4 (REINFORCED)



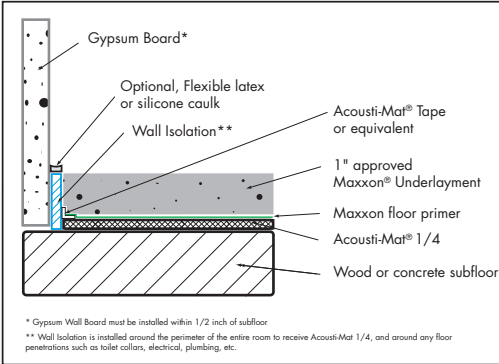
## STEEL DECK



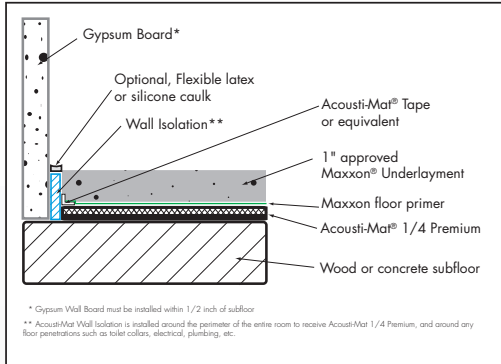
## ACOUSTI-MAT® 1/8



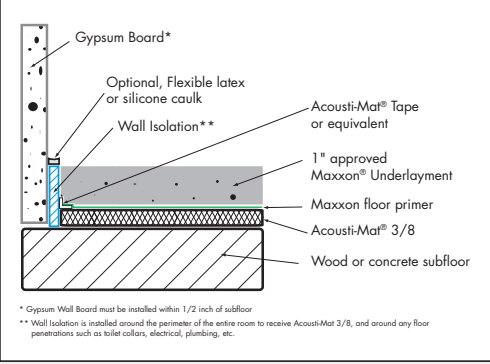
## ACOUSTI-MAT® 1/4



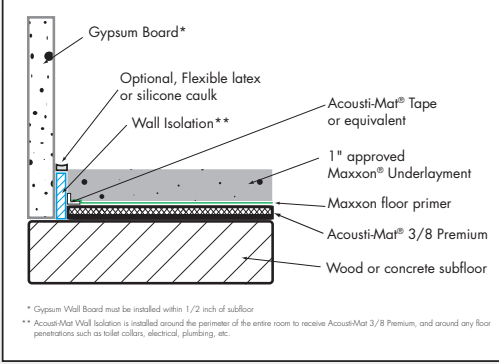
## ACOUSTI-MAT® 1/4 PREMIUM



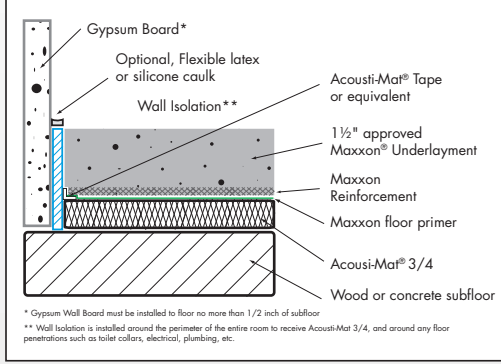
## ACOUSTI-MAT® 3/8



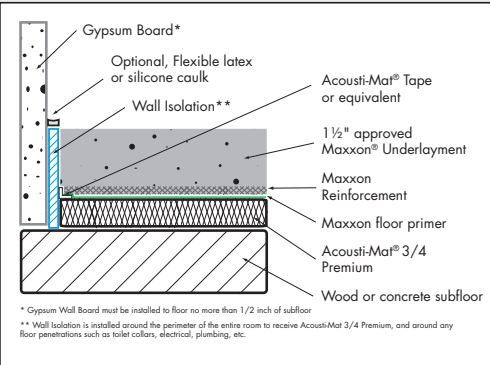
## ACOUSTI-MAT® 3/8 PREMIUM



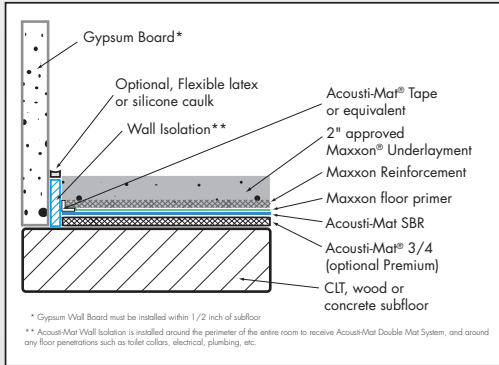
## ACOUSTI-MAT® 3/4



## ACOUSTI-MAT® 3/4 PREMIUM



## DOUBLE MAT



# LISTEN. LEARN. EARN.

## THE LUNCH & LEARN SERIES FROM MAXXON, THE FLOOR SPECIALISTS



Maxxon Corporation offers six AIA Approved continuing education opportunities. Each one-hour presentation is given at your office and earns participants 1 LU credit. Now there are two ways to earn continuing education credits with Maxxon - in person or online! For in person presentations, Maxxon will treat you to lunch! Learn more about the presentations below, and then select the one that best suits your office. Not sure which to select? A Maxxon representative will be happy to help you decide!

### **NEW** MODERN ACOUSTICAL SOLUTIONS AND PERFORMANCE VARIATIONS BY ASSEMBLY TYPE AND APPLICATION

In this course you will review the different types of sound control mat solutions available on the market today. You will learn about installation differences, performance variations and how these factors impact the marketability and budget of a project.

### **NEW** FIRE AND ACOUSTICAL CONSIDERATIONS IN CROSS LAMINATED TIMBER CONSTRUCTION

This course will discuss the various types of Mass Timber Construction, focusing on the Fire and Acoustical Considerations associated with Cross Laminated Timber Construction. Topics will include the differences and benefits of each type of mass timber assemblies, the reasons behind two hour fire ratings and the role gypsum underlayments play in fire resistance, planned changes to the International Building Code, and the pitfalls and solutions to sound control in mass timber assemblies.

### BUILDING SMART — A NEW APPROACH FOR MID- & HIGH-RISE CONSTRUCTION

High-rise concrete construction starts are on the rise across the country. These

projects are going up fast, some at the rate of one floor every two days. This rigorous construction schedule has traditionally put a tremendous amount of pressure on concrete contractors due to the necessity of meeting specific floor flatness criteria. Plus, floor flatness measurements taken immediately after installation may change as the floor cures, resulting in costly and time-consuming floor prep before the installation of floor goods. Fortunately, a new method to achieving flat, "floor goods ready" floors is emerging. In this course, you will learn how this new approach is fast tracking mid- and high-rise construction, creating a super flat floor and protecting floor coverings from moisture related damage.

### SOUND CONTROL IN MULTISTORY CONSTRUCTION

In this course you'll learn how to build a floor/ceiling assembly with sound control in mind. Topics include common terminology as it relates to acoustical construction, the International Building Code criteria for sound control, and the four key considerations in the design of a floor/ceiling assembly.

### SPECIFYING THE RIGHT PRODUCT FOR THE RIGHT APPLICATION

Learn more about the benefits of underlayments and sound control mats, and how to select the right products for your project. Plus we'll cover how these products help enhance the safety and marketability of a project

### SURFACE APPLIED MOISTURE VAPOR BARRIERS **NOW OFFERED ONLINE!**

Concrete slabs can be subjected to moisture vapor emissions from the ground and due to varying humidity conditions. In this presentation, participants will learn how to assess the potential need for a vapor barrier, the types of vapor barriers available, and how to test the moisture content of a concrete slab.

## FIRE & SOUND RATINGS

### FIRE RATINGS

UL Design														UL Design	
G230	G566	J920	I006	L212	L508	L516	L525	L534	L542	L556	L569	L581	L901	M508	M519
G516	G574	J924	L201	L501	L509	L517	L526	L535	L543	L557	L570	L583	M500	M510	M533
G524	G587	J927	L202	L502	L510	L518	L527	L536	L545	L558	L571	L585	M502	M511	
G551	G592	J931	L206	L503	L511	L519	L528	L537	L546	L560	L573	L588	M503	M513	
G553	G597	J957	L208	L504	L512	L520	L529	L538	L547	L562	L574	L589	M504	M514	
G560	H502	J958	L209	L505	L513	L522	L530	L539	L549	L563	L576	L590	M505	M515	
G561	J917	J991	L210	L506	L514	L523	L532	L540	L551	L564	L577	L592	M506	M517	
G563	J919	J994	L211	L507	L515	L524	L533	L541	L552	L565	L579	L593	M507	M518	
														M514	
														M520	
														M521	
														L511	
														L512	
														M500	
														M501	
														M503	

### SOUND TEST INFORMATION

International Building Code (IBC) requires a minimum 50 STC/IIC (45 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 (52 if field tested). The "preferred" level of performance for STC and IIC is 60 (57 if field tested). Maxxon Underlayments and Acousti-Mat 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 selection and installation of all components of construction to ensure the ultimate designed acoustical performance. All acoustical testing was done by Architectural Testing; Riverbank Testing Laboratories; Intest, Inc.; Twin City Testing Corporation; Maxxon R & D Test Center; D.L. Adams Associates, L.T.D.; Veneklasen Associates;

### FIRE/SOUND RATINGS

Evaluation Reports - Meeting fire and sound code together			
Accepted by local building officials for fire and sound code compliance, Evaluation Reports are technical reports which verify that specific products meet the following code requirements and warrant regulatory approval. Minimum code requirements: Sound - 50 STC/IIC, Fire - 1 Hour			
International Code Council			
ICC ESR #2540	• Parallel Chord Truss	• I-Joist	• Precast Concrete
For the following assembly types:	• 2x10 Wood Truss	• Steel Joist	
Additional ICC ES Reports:	ESR #1141, ESR #1153, ESR #1774		
Underwriters Laboratory International			
UL ER #8477-01	• Parallel Chord Truss	• I-Joist	• Steel Joist
For the following assembly types:	• 2x10 Wood Truss	• Hambro	• Precast Concrete

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.

### CODE LISTINGS

Maxxon Floor Underlayment systems are recognized by ICC-ES, UL Evaluation Report 8477-01, U.S. Dept. of Housing and Urban Development 951i, City of Los Angeles, and are GREENGUARD Certified and GREENGUARD Gold Certified.

### WARRANTIES

See our website for complete warranty information.



Another superior product from:

Maxxon® Corporation • 920 Hamel Road • P.O. Box 253  
Hamel, MN 55340 USA • 763-478-9600 • Fax: 763-478-2431

# ACOUSTI MAT

SUPERIOR SOUND CONTROL SYSTEMS

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[www.Acousti-Mat.com](http://www.Acousti-Mat.com)

