

ACOUSTI-MAT® 3 HP



WHEN PROBLEM FLOORS REQUIRE THE VERY BEST SOUND CONTROL AVAILABLE

For challenging floors, like those found in warehouse-to-multifamily conversion projects, only the best will do. Acousti-Mat® 3 HP delivers top quality noise reduction by combining the proven sound reduction of Acousti-Mat's floating floor technology with an added layer of isolation. The HP layer of acoustical fabric is laminated to the bottom of a core of fused entangled filaments, which is attached to a non-woven, water-resistant fabric. Acousti-Mat 3 HP is then topped with a high-strength Maxxon Underlayment.

Acousti-Mat 3 HP increases the IIC levels of the floor/ceiling assembly by up to 22 points over wood frame construction and up to 30 in concrete construction. At a height of 3/4" and requiring only a 1 1/2" reinforced topping, Acousti-Mat 3 HP provides ultimate sound control without significantly increasing the overall floor height over regular Acousti-Mat 3. It is considered a "green" building material, containing 40% recycled content. The entire Maxxon system is covered by one warranty, and is also GREENGUARD and GREENGUARD Gold Certified.

FEATURES & BENEFITS

- Increases IIC rating up to 22 points over wood frame and up to 30 points over concrete.
- Acousti-Mat 3 HP combines acoustical fabric with entangled mesh, for an overall approximate 3/4" mat profile.
- GREENGUARD and GREENGUARD Gold Certified.

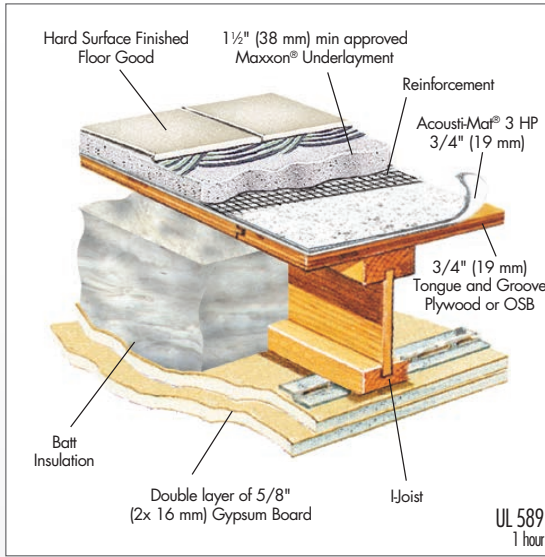


Top of the line sound control made better with a little extra HP.

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 and white acoustical fabric	
Thickness, nominal	3/4" (19 mm)	
Density	3.57 pcf (57.2 kg/m ³)	
Thermal Resistance R-Value		
Mat Only.....	2.150	
1 1/2" Maxxon Underlayment.....	0.288	
Mat/Underlayment.....	2.438	
Pressure/Deflection		
50 psf (244 kg/m ²).....	0.013" (0.33 mm)	
100 psf (488 kg/m ²).....	0.031" (0.79 mm)	
500 psf (2,440 kg/m ²).....	0.128" (3.25 mm)	
1,000 psf (4,880 kg/m ²).....	0.218" (5.54 mm)	
Underlayment Depth		
Gypsum Underlayment.....	1.5" (38 mm) Reinforced	
Fire Performance ASTM E-84		
Fuel Contribution.....	0	
Smoke Density.....	0	
Flame Spread.....	0	

DETAIL DRAWING



FIRE/SOUND RATINGS

Evaluation Reports - Meeting fire and sound code together
<i>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/1IC, Fire - 1 Hour</i>
International Code Council
ICC ESR #2540 For the following assembly types:
• Parallel Chord Truss • I-Joist • Precast Concrete
• 2x10 Wood Truss • Steel Joist
Additional ICC ESR Reports: ESR #1141, ESR #1153, ESR #1774
Underwriters Laboratory International
UL ER #8477-01 For the following assembly types:
• Parallel Chord Truss • I-Joist • Steel Joist
• 2x10 Wood Truss • Hambro • Precast Concrete

FIRE RATINGS

UL Design					
G230	L201	L513	L535	L563	M506
G516	L202	L514	L536	L564	M507
G524	L206	L515	L537	L565	M513
G551	L208	L516	L538	L569	M514
G553	L209	L517	L539	L570	M517
G560	L210	L518	L540	L574	M518
G561	L211	L519	L541	L576	M519
G563	L212	L520	L542	L577	
G566	L501	L522	L543	L579	
G574	L502	L523	L545	L581	
J917	L503	L524	L546	L583	
J919	L504	L525	L547	L588	
J920	L505	L526	L549	L589	
J924	L506	L527	L551	L590	
J927	L507	L528	L552	L592	
J931	L508	L529	L556	L593	
J957	L509	L530	L557	M500	
J991	L510	L532	L558	M503	
J994	L511	L533	L560	M504	
L006	L512	L534	L562	M505	

ULC Design					
L530	L201	L512	M501	M514	M521
L003	L511	M500	M503	M520	

LEED® INFORMATION

For information regarding how Acousti-Mat 3 HP may contribute toward points for LEED project contribution, contact your Regional Representative at (800) 356-7887 or visit www.maxxon.com/go_green.

SOUND TEST INFORMATION: International Building Code (IBC) requires a minimum 50 STC/1IC (45 F-STC/F-1IC) in multifamily construction. Because an STC/1IC 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 1IC is 55 (52 if field tested). The "preferred" level of performance for STC and 1IC 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.; Intertek; Twin City Testing Corporation; Maxxon R & D Test Center; 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.

WARRANTY: Maxxon Corporation warrants Acousti-Mat 3 HP 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 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 Acousti-Mat 3 HP. Because Maxxon Corporation does not perform the actual installation, 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 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 in connection with the sale and installation of Acousti-Mat 3 HP.

ACOUSTI-MAT 3 HP INSTALLATION



step 1
Sound mat is loose laid over the entire concrete or wood subfloor.

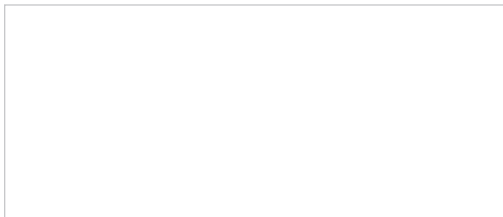
step 2
Seams between sections of sound mat are adhered with zip-strips or taped.*

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
Approved reinforcement is installed over the sound mat. The sound mat and reinforcement are then 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.

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



ACOUSTI-MAT[®] 3 HP

High Performance

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



THE MAXXON GREEN MARK
Maxxon products with this symbol may help contribute toward points for LEED project certification.

Another superior product from:
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