

RECOMMENDED SPECIFICATION FOR CONCRETE, MORTAR BED OR DOUBLE LAYER
PLYWOOD OVER ACOUSTI-MAT® SOUND DEADENING MAT

PART 1 GENERAL

1.01 SUMMARY

- A. This is the recommended specification for concrete, mortar bed or double layer plywood over Acousti-Mat sound deadening pad.

1.02 SECTION INCLUDES

- A. Acousti-Mat® Sound Control Mats: Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4, Acousti-Mat 3/4 Premium
 - a. Acousti-Mat Perimeter Isolation Strip
 - b. Acousti-Mat Tape
- B. Maxxon Reinforcement or Reinforcement Wire (concrete or mortar bed applications)
- C. Concrete (Option-1)
- D. Mortar Bed (Option-2)
- E. Double Layer Plywood (Option-3)

1.03 QUALITY ASSURANCE

- A. Acousti-Mat shall be installed according to Manufacturer's install instructions.
- B. Concrete, mortar bed or double layer plywood shall be installed by an experienced applicator.

1.04 DELIVERY, STORAGE AND HANDLING

- A. General Requirements: Materials shall be delivered in their original, unopened packages, and protected from exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

1.05 SITE CONDITIONS

- A. Environmental Requirements: Before, during and after installation of concrete, mortar bed or double layer plywood and Acousti-Mat Sound Control Mat, building interior shall be enclosed and maintained at a temperature above 50 degrees F (10 degrees C).

PART 2 PRODUCTS



2.01 MATERIALS

- A. Acousti-Mat Perimeter Isolation Strip: Acousti-Mat Perimeter Isolation Strip as supplied by Acoustical Solutions.
- B. Sound Deadening Mat: Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4 or Acousti-Mat 3/4 Premium as supplied by:
Acoustical Solutions, 2420 Grenoble Road Richmond, VA 23294, (800) 782-5742
AcousticalSolutions.com.
- C. Acousti-Mat Tape as supplied by:
Acoustical Solutions, 2420 Grenoble Road Richmond, VA 23294, (800) 782-5742
AcousticalSolutions.com or equal.
- D. Maxxon Reinforcement (MR) as manufactured by Maxxon Corporation, Hamel, MN.
- E. Reinforcement Wire: Welded wire mesh 6 inch x 6 inch or equal.
- F. Concrete: Portland cement concrete as manufactured by local batch plant.
- G. Mortar Bed: Portland cement mortar bed as manufactured by Bostik, Mapei, TEC or equal.
- H. Plywood: Plywood shall be a minimum 3/8" thick over Acousti-Mat 3/8 or Acousti-Mat 3/8 Premium or a minimum of 3/4" thick over Acousti-Mat 3/4 or Acousti-Mat 3/4 Premium (minimum 4 ply thick, grade A, B, J or X) that meets all the hardwood manufacturer's specifications.

PART 3 EXECUTION

3.01 PREPARATION

- A. Condition and Cleaning of Subfloor: Subfloor shall be structurally sound. General Contractor shall clean subfloor to remove mud, oil, grease, and other contaminating factors before the installation of the Acousti-Mat and topping.
- B. Expansion Joints: Allow joints to continue through the concrete, mortar bed or plywood at the same width.

3.02 APPLICATION OF ACOUSTI-MAT AND (OPTIONAL) REINFORCEMENT MESH

- A. Acousti-Mat and Acousti-Mat Perimeter Isolation Strip Installation: Install Acousti-Mat and Acousti-Mat Perimeter Isolation Strips following manufacturers recommendations and specifications.
- B. Reinforcement Application (for Concrete or Mortar Bed topping): Maxxon Reinforcement or Reinforcement Wire: The MR or wire is loose laid and over-lapped approximately 2



inches on all sides. The thickness of the Concrete will be minimum 2 ½- 3 inch over the MR or wire. Do not mechanically attach the MR or wire through the Acousti-Mat to the subfloor.

3.03 APPLICATION OF CONCRETE, MORTAR BED OR DOUBLE LAYER PLYWOOD OVER ACOUSTI-MAT

- A. Scheduling: Application of concrete, mortar bed or double layer plywood shall not begin until the building is enclosed, including roof, windows, doors and other fenestration.
- B. Schedule the Acousti-Mat sound control system as late as possible in the construction cycle.
- C. Concrete Application: Place the recommended concrete a minimum 2 ½-3-inch-thick over Acousti-Mat. Spread and screed Concrete over the reinforcement wire to a smooth surface.
- D. Mortar Bed Application: Place the recommended Mortar Bed a minimum 1 ¼ inch (33 mm) thick over Acousti-Mat. Spread and screed Mortar Bed over the reinforcement wire to a smooth surface.
- E. Plywood Application: Follow the Hardwood manufacturers recommendations for gluing, nailing, or screwing two layers of plywood together. DO NOT nail, screw, or staple the plywood through the Acousti-Mat. The double plywood underlayment must be floating over the Acousti-Mat.
- F. Install finished floor goods to the concrete, mortar bed or double plywood underlayment per manufacturer's recommendations. Care must be taken to ensure no nails, screws, or staples penetrate the Acousti-Mat.

3.04 PROTECTION

- A. Protection From Heavy Loads: During construction, place temporary wood planking over Acousti-Mat, concrete or mortar bed wherever it will be subject to heavy wheeled or concentrated loads.

END OF SECTION

