



Globally Proven
Construction Solutions

GenieMat[®] RST

Reduced Sound Transmission Mat

Installation Instructions



- Easy to install with LATICRETE[®] polymer modified thin-set, rolls out quickly
- 94% recycled content
- Suitable for residential and light commercial applications

Product Specifications

GenieMat [®] RST Product	Thickness	Roll Size	Robinson Floor Test (ASTM C627)
RST02	2 mm	1.22m X 22.90m	Extra heavy commercial
RST03	3 mm	1.22m X 9.14m	Moderate commercial
RST05	5 mm	1.22m X 9.10m	Moderate commercial
RST10	10 mm	1.22m X 4.57m	Light commercial
RST12	12 mm	1.22m X 4.57m	Light commercial
RST15	15 mm	1.22m X 4.57m	Light commercial

The Robinson Floor Test (ASTM C627) is intended to determine the performance level of the floor system (e.g Extra Heavy is for food plants, dairies, breweries, kitchens, etc...). Thinner reduced sound transmission mat tend to have less compressibility and therefore perform better in the Robinson Floor Test, but perform lower in sound control performance testing (ASTM E2179 and ASTM E492). Conversely, thicker sound control products are more compressible and do not achieve the same results in the Robinson Floor Test, but perform better when tested for sound control properties.

GenieMat[®] RST reduced sound transmission mat has been laboratory tested to the following international impact sound insulation standards:

ASTM E492

ASTM E2179

EN ISO 717

EN ISO 140-8:1998

EN ISO 10140-3:2010

For all GenieMat RST reduced sound transmission mat thicknesses impact sound insulation tests have been conducted to ASTM standards with various flooring types and to EN ISO standards without flooring.



SECTION 1 – JOB SITE CONDITIONS

Areas to receive GenieMat® RST reduced sound transmission mat should be weather tight and maintained at a minimum, constant room temperature greater than 10°C for 48 hours before, during and after installation. Temperatures for installation should not exceed 32°C.

SECTION 2 – SUBFLOOR REQUIREMENTS AND PREPARATIONS

Substrates must be inspected prior to installation. Concrete floors must be fully cured and permanently dry. Subfloor shall be dry, clean, smooth, level and structurally sound. It should be free of dust, solvent, wax, oil, grease, sealers, curing and hardening compounds, old adhesive residue and other extraneous material. Mechanical removal of residue can be performed; however, solvents or acid cleaners SHOULD NOT be used. Maximum substrate variation to be 5mm in 3m from the required plane and 1.5mm in 300mm when measured the high spot to prevent irregularities, roughness or other defects from coming through finish material. It is important for installers to test the concrete for moisture as concrete subfloor can be a source of moisture related flooring failures. Moisture testing should be performed as per ASTM F1869, ASTM F2170 or as required by recognized code methods. Floors systems, including the framing system and subfloor panels, to receive tile or stone must conform to the National Construction Code(NCC) or other applicable building codes. Maximum allowable substrate deflection of L/360 for ceramic tile or L/480 for stone under all anticipated loads.

SECTION 3 – MATERIAL STORAGE AND HANDLING

GenieMat RST reduced sound transmission mat should be delivered to job site in its original, unopened packaging with all labels intact and still affixed. GenieMat RST should be stored to prevent damage. Verify that the GenieMat RST delivered is the correct thickness and amount required for the project. The GenieMat RST reduced sound transmission mat must be acclimated at room temperature for a minimum of 24 hours prior to commencing installation. GenieMat RST reduced sound transmission mat is stretched slightly when rolled at the factory. At the job site, the installer should allow all cuts to relax before installing GenieMat RST reduced sound transmission mat down with an appropriate LATICRETE® thin-set (see section 6 for a list of approved products). Shaking GenieMat RST reduced sound transmission mat once it is unrolled can help to relax product more quickly.

SECTION 4 – PERIMETER ISOLATION STRIPS

To ensure proper sound control performance, it is essential to install GenieMat PMIO6PF perimeter isolation strips before placing and trimming GenieMat RST reduced sound transmission mat. Proper placement of the GenieMat PMIO6PF perimeter isolation strips onto perimeter walls and any permanently installed structures (e.g. kitchen islands, walls, etc...) will isolate or break the transmission of sound through the wall or permanently installed structure. If perimeter joints are exposed, treat with a suitable acoustic grade sealant (e.g. LATASIL™)

SECTION 5 – INSTALLATION of GenieMat RST Reduced Sound Transmission Mat

NOTE: GenieMat RST reduced sound transmission mat installations to receive tile or stone must be fully adhered to the substrate with a suitable LATICRETE thin-set adhesive (See section 7 for a complete list). No substitutions or alternative methods are permitted. Install GenieMat PMIO6PF perimeter isolation strips. Place GenieMat RST reduced sound transmission mat so that it is perpendicular to the subsequent installation direction of the topping material*. Trim the ends of each GenieMat RST reduced sound transmission mat section as necessary in order to fit the surface area to be covered.

NOTE: You may trim section ends to exact dimension required (e.g. joints with walls, etc). Align the lengthwise edge of the GenieMat RST reduced sound transmission mat exactly with that of the neighboring section. Edges must contact but not overlap. Fold the first drop lengthwise (half the width of the roll). Spread an appropriate LATICRETE thin-set using a 6 mm x 6 mm square notch trowel. Carefully lay material into the wet LATICRETE thin-set. Do not let mat fall because this will trap air beneath GenieMat RST reduced sound transmission mat.** Folder over second half of the first sheet and the first half of the second sheet. Spread the appropriate LATICRETE thin-set as stated above. At the seam area, spread LATICRETE thin-set at 90° to seam so as to prevent excessive thin-set from escaping to the surface of the mat. Continue process for each consecutive drop. Always work at a pace so that you are always folding material back into a wet thin-set.

IMPORTANT: Use a 16 kg – 45 kg roller to roll over the just installed mat, whilst adhesive is still adjustable, to ensure proper transfer of thin-set adhesive. Go over each section again to ensure that the floor is properly rolled. Protect the installation of GenieMat RST reduced sound transmission mat from other trades or traffic.

*This would only apply to framed floor systems without control joints, and not to concrete.

**If the material is dropped into place rather than placed large air bubbles may be caught underneath which could cause uneven distribution of adhesive and also areas of low.

SECTION 6 – INSTALLATION OF TILE AND STONE FINISH

NOTE: Never mechanically fasten any material through GenieMat® RST reduced sound transmission mat. Mechanical connections, such as nails, screws, staples, etc... will transmit noise through the building structure and minimize or eliminate the effect of the GenieMat RST reduced sound transmission mat.

Make sure that the GenieMat RST reduced sound transmission mat installation is cured for 24 hrs at 21°C to allow foot traffic to occur without movement of the GenieMat RST reduced sound transmission mat. Ensure that the GenieMat RST reduced sound transmission mat is clean and dry. The surface must be free of any loose contaminants or potential bond breakers prior to the installation of tile or stone. Install the tile or stone, using the appropriate size notched trowel, using an appropriate LATICRETE® thin-set. Apply the adhesive to the GenieMat RST reduced sound transmission mat with the flat side of the trowel, pressing firmly to work the adhesive into the surface. Comb on additional adhesive with the notched side of the trowel. Back butter large format tiles with additional adhesive. Place tiles into the wet adhesive and beat in using a beating block or a rubber mallet to embed tile and adjust level. Check for complete coverage by periodically removing a tile and inspecting adhesive for transfer onto back of tile. Grout the installation after a minimum of 24 hours cure tile at 21°C. Please note that cooler temperatures require longer cure time. Grout with SPECTRALOCK® PRO Premium Grout[^]; PERMACOLOR® Grout; PERMACOLOR Select Grout. Do not bridge expansion joints in the substrate. Expansion joints should be carried through to the finish layer and treated with LATASIL. Install field movement joints in the finish layer as directed in the project specifications and details. As a guideline, follow AS 3958.1 or other relevant installation handbooks like the TCNA manual.

SECTION 7 – RECOMMENDED INSTALLATION MATERIALS[^]

The following products are listed due to extensive testing and field experience with GenieMat RST reduced sound transmission mat.

- 254 Adhesive
- 335 Adhesive
- 211 gauged with 4237 Latex Additive
- LATASIL™ Sealant
- SPECTRALOCK PRO Premium Grout[^]
- PERMACOLOR Select Grout
- PERMACOLOR Grout



STEP 1: Apply 254 to the sub floor using 6mm x 6mm square-notch trowel



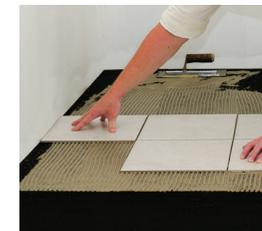
STEP 2: Unroll GenieMat® RST reduced sound transmission mat into the thin-set



STEP 3: Roll GenieMat RST reduced sound transmission mat with a 16kg inoleum roller



STEP 4: Apply polymer fortified thinset to GenieMat RST reduced sound transmission mat using an appropriate square notch



STEP 5: Lay ceramic or porcelain tiles and then grout

[^]United States Patent No.: 6,881,768 (and other Patents).