

KeedeRoll™ MT

Acoustical & Uncoupling Membrane



KeedeRoll MT is a fast, durable and cost effective solution to protect tile and reduce unwanted noise in one roll.

- Light weight
- “Extra Heavy Rated” on the Robinson Wheel Test
- Reinforcement for mortar
- **21 point IIC Delta on 8” concrete**
- Exceeds code on 8” concrete (54 IIC)

Tile poses a unique challenge for builders attempting to control noise. Like most hard surfaces, ceramic tile performs poorly in many environments; unlike most hard surfaces, solving this issue while maintaining a durable floor is difficult.

KeedeRoll MT combines our patented Muffling Technology with our uncoupling KEEDE technology to create a quiet yet durable subfloor. Specifically designed for ceramic tile, **KeedeRoll MT** contains all the benefits of both an uncoupling mat and a sound mat.



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KeedeRoll MT **SOUND** Testing

STC AND IIC

Sound is measured in two different ways: STC and IIC

Sound Transmission Class (STC)

Measures the transmission of airborne noise through walls and floors.

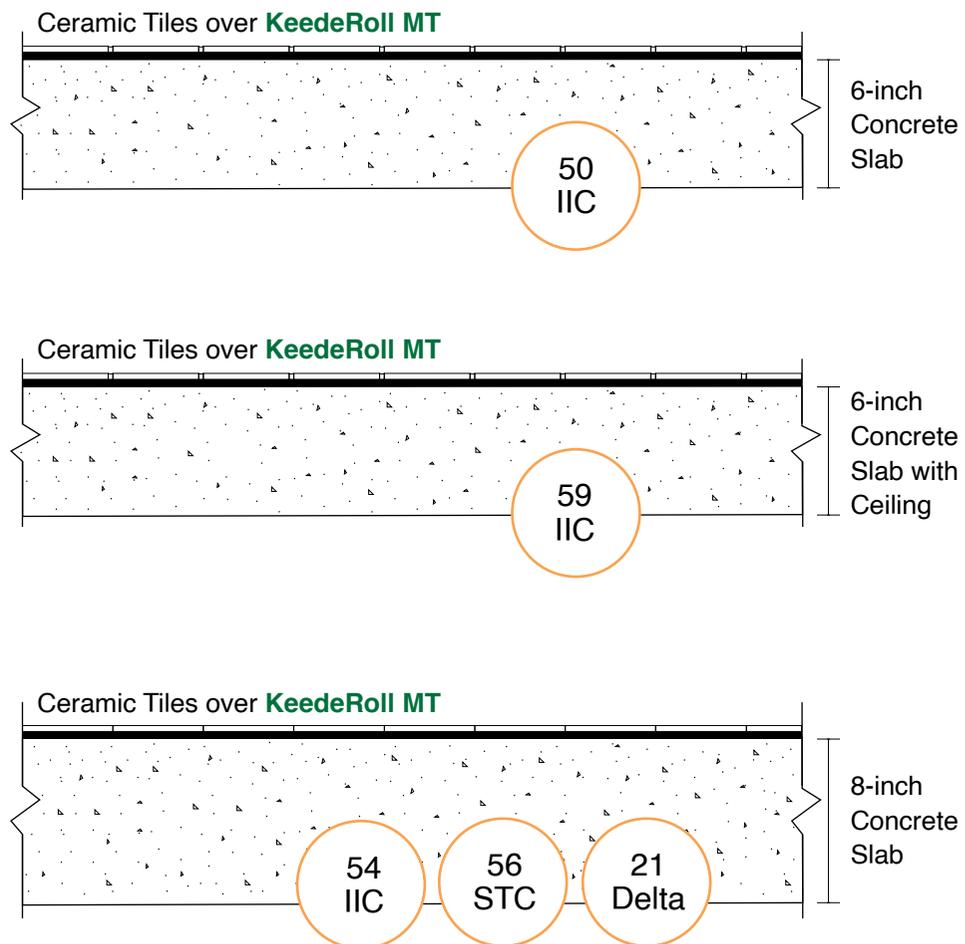
Impact Isolation Class (IIC)

Measures the transmission of noise caused by impact; the most common form of impact noise in residential construction is footfall.

Ceramic tile floor systems are most concerned with impact noise. Softening the connection between the subfloor and the floor covering reduces the amount of noise passing through your assembly. This technique is part of the reason why carpet performs better than hard surfaces acoustically: carpet pad softens the connection between the carpet and the subfloor. **KeedeRoll MT** thus muffles impact noise, while also protecting the tile against shear.

SOUND TEST

ASTM E492 and ASTM E2179:



PRODUCT REQUIREMENTS

KeedeRoll MT offers ease of installation and convenience on a roll. Installers can easily cut **KeedeRoll MT** around obstructions like: pipes, wires and posts with scissors, and install tile over the mat as soon as it's laid down over thin-set.

Adhesives for use BELOW KeedeRoll MT:

- Mapei Eco 420
- Roberts Carpet Glue
- Laticrete 125 Sound & Crack Adhesive

Thin-set Mortars for use ON and BELOW KeedeRoll MT:

- Custom Building Products Versabond
- Mapei Ultraflex 1
- Any thin-set which passes ANSI 118.11
- Boiardi Elastiment AP-3

Use trowel for adhesive

Use 3/16" v-notch trowel for thinset

For other approved adhesives and thin-set mortars please contact technical service at 1-800-227-3434.

FLOOR REQUIREMENTS

WOOD

Only APA rated OSB & Plywood substrates are suitable for KeedeRoll MT. Ensure the subfloor is structurally sound, stable, and built to code with movement joists placed in accordance with industry standards.

Minimum Thicknesses by Joist Width

- For a 16" o.c. joist, I-joist or floor truss a minimum subfloor thickness of 5/8" (16mm) is required with a minimum 1/8" tongue and groove gap between sheets.
- For a 19.2" o.c. joist, I-joist, or floor truss a minimum subfloor thickness of 3/4" (19mm) is required with a minimum 1/8" tongue and groove gap between sheets.
- For a 24" o.c. joist, I-joist or floor truss a double layer of plywood with one layer being at least 3/4" (19mm) and an added layer of 3/8" (10mm) subfloor is required. A minimum of 1/8" tongue and groove gap between sheets is also required. If a second layer of plywood is undesirable, a layer of Dependable's Skimflow LCB at 1/4" minimum thickness may be used in stead.

CONCRETE

Ensure all concrete is structurally sound, smooth, and stable prior to installing KeedeRoll MT. Additionally ensure the slab meets TCNA requirements and the temperature/environmental requirements of the tile. All moving and control joints must be honored.

GYPSUM CONCRETE

KeedeRoll MT serves as a TCNA approved barrier between tile and the gypsum concrete slab. Ensure the gypsum is structurally sound, smooth, and stable prior to installing KeedeRoll MT. It is recommended you seal the gypsum concrete prior to installing any adhesive or mortar. Dependable's Primer A will work as a sealer, follow the technical data sheet's installation instructions for details.

Substrate Preparation

- Ensure all substrates are structurally sound, smooth, and stable
- Mechanically remove any dust, paint, oil, wax, or potential bond breakers from the substrate
- The subfloor **MUST** be level, if leveling is required use a self-leveling underlayment prior to installing KeedeRoll MT. For wood & gypsum substrates use Skimflow LCB. For concrete substrates use Platform L3.
- Assure that the relative humidity of any concrete slab is in accordance with the finished floor's tolerance level. Use ASTM F2170 Standard Test Method for determining RH in concrete slabs to determine RH levels. If moisture remediation is required use Dependable's Vaporseal HM+ to remediate concrete. For gypsum concrete use a Delmhorst moisture meter to determine if the gypsum slab is suitable for installation of ceramic tile. Consult Technical Services for details on moisture in gypsum.
- If the concrete slab exhibits any cracking, ensure the cracks are in-plane. If the cracks are not in-plane do not install KeedeRoll MT.

INSTALLATION INSTRUCTIONS

Following the steps properly while installing KeedeRoll MT is essential to the success of your installation.

- Follow the mortar and/or adhesive manufacturer's instructions in preparation for installing KeedeRoll MT.
- If installing KeedeRoll MT as a soundmat it is recommended a perimeter isolation strip is used around the edges of the room.
- Starting from the wall and using the appropriate thin-set mortar or adhesive begin troweling out the mortar/adhesive using either a 1/4" x 3/16" v-notch trowel (for mortar) or 1/16" x 1/16" x 1/16" v-notch trowel for adhesives.
- Trowel enough area to cover with a portion of KeedeRoll MT you can install in the adhesive/mortar's working time.
- Place KeedeRoll MT into the mortar/adhesive with the fabric side down. Use a weighted roller to ensure the fabric is embedded into the mortar/adhesive. Roll the KeedeRoll until all airpockets are eliminated.
- Lift up a corner to ensure there is full coverage of mortar/adhesive on the fabric.
- Align the end and side sections of KeedeRoll MT and ensure the seams are butted tightly together. You may need to remove the selvedge edge in some areas to ensure a smooth installation.



INSTALLING TILE OVER KEEDEROLL MT

All tile must be installed according to the tile manufacturers' instructions.

- Tile may be installed over KeedeRoll MT as soon as it has been embedded into place
- Trowel the appropriate mortar using the recommended size trowel to key in mortar into the mat.
- Ensure the mortar has filled the entangled net and is encased into the fillaments.
- Spread the tile manufacturers' recommended mortar bed onto KeedeRoll MT, then embed the tiles into the setting material. Periodically lift the tile to ensure the tile has appropriate coverage. Back buttering the tile may be required on large format tiles.

LIMITATIONS

- This product is not intended for use in areas with standing water including, but not limited to: fountains, pools, and filled tubs.
- This product is not intended to be used as a war surface.
- Do not bond directly to particle board, vinyl flooring, metal or other surfaces not approved by Dependable
- KeedeRoll MT is not designed to work in environments not approved by the setting materials' manufacturer
- When installing natural stone over KeedeRoll on a wood substrate, we recommend the use of two layers of plywood

Technical Assistance

Visit our website: floorprep.com or call 1-800-227-3434.