



# SOUND ZERO MAT

## DESCRIPTION

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Sound Zero Mat 5mm is made specifically to reduce sound transmission through floor tiling systems. It is made from graded and compressed rubber product that sits flat for ease of use.

## USES

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Sound Zero Mat is ideal for use under ceramic tile, slate, stone and other type of flooring such as bamboo and hardwood floors in many applications. For general living areas, where tiling takes place directly to the mat or where a sand/cement screed is used over the mat.

The typical applications include:

- Office buildings
- Airports
- Shopping centres
- Hotels
- Homes
- Apartments

## FEATURES AND BENEFITS

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- No curling so it stays flat during installation.
- Easy to place
- Shipped flat on pallets
- Easily cut to size
- Easy to transport and place

## APPLICATION

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### Surface preparation

- All surfaces must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds and any other loose or contaminating materials.
- Steel trowel finished concrete must be acid etched or mechanically abraded.
- Mechanically remove all paint and contaminants and prime with Davco Ultraprime.
- If the floor is not level, it is recommended to install Lanko 133 Pro Level. This is particularly important if large format tiles are to be installed and directly adhered to the matting. Allow the Pro Level to cure for 24 hours before covering.

- A screed may be needed if falls are required. Allow the screed to cure for 7 days minimum before covering. Ensure to prime the surface with Davco Ultraprime before application of the mat.

### General Living Area Installation

- Allow primer to dry completely (depending on ambient temperature, 15 - 20min).
- Apply a bed of Tradeflex adhesive onto the substrate with a 6mm square notched trowel.
- Place the mat onto the adhesive bed and press evenly into the adhesive (this may be done with a lightly weighted roller).
- Make sure there is even adhesive coverage and minimise the amount of voids under the mat as they can change the acoustic properties of the system.

### External Wet Area Installation

- For application in external wet areas, the use of a waterproofing membrane on top of the mat is essential to meet the requirements of the BCA.
- Apply the waterproofing membrane directly over the mat, as per the instructions for the membrane.
- A screed will be needed to create the falls in external wet areas. Apply the screed over the membrane.
- The tiles may then be wet bed fixed into the screed, or the screed allowed to cure for 7 days before tiling as below.
- Some adhesives will allow tiling to be carried out over the screed, after 24 hours – contact Davco for more information.

### Tile Adhesives

- When directly adhering tiles onto the Sound Zero Mat, use Tradeflex Two Part or F1 Express Tile Adhesives.
- Use an appropriately sized trowel for the tiles.
- Larger tiles may require back buttering.
- Ensure that an adequate bed depth and as close to 100% coverage is achieved. This will help ensure well bonded tiles and the best sound reduction results.
- Refer to the tile adhesive datasheet for more detailed information on the tiling process.



# SOUND ZERO MAT

## Grouting

- Grouting should not be carried out for at least 24 hours after the completion of tiling.
- For grout joints 1-6mm wide use Davco's *Sanitized*<sup>®</sup> Colorgrouts.
- For grout joints 6-12mm wide use Davco Slate and Quarry Grout.
- Refer to the individual product datasheet for more information.

## PRECAUTIONS

- Protect Sound Zero Mat from contamination after application, and before tiling, so as to provide a clean surface and ensure a positive bond of the tiles.
- Only undertake tiling using recommended adhesive systems. If there is a need to change the system, contact ParexDavco for advice before proceeding.
- Do not use in a wet area, without the application of a waterproofing membrane.

## PACKAGING

- Sound Zero Mat is available in 5mm thicknesses (1.1 m x 1.1 m mats - 1.21m<sup>2</sup>). Shipped flat.
- For the 5mm Mat – 200 sheets/pallet.

## IMPACT SOUND RATING

### BCA Requirements

The new BCA Deemed-to-Satisfy Provisions require the  $L'_{n,w} + C_i$  of a floor to be determined by testing in the laboratory. The impact sound insulation requirements for floors are:

- $L'_{n,w} + C_i$  not more than 62 for floors separating dwellings and for floors separating dwellings from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification.

The terms to describe the impact sound insulation rating of a floor when tested on-site, is the weighted standardised impact sound pressure level ( $L'_{nT,w}$ ) plus the spectrum adaptation term ( $C_i$ ).  $L'_{nT,w} + C_i$  is similar to the laboratory term  $L'_{n,w} + C_i$ . For floors tested on-site, the impact sound insulation requirements are as follows:

- $L'_{nT,w} + C_i$  not more than 62 for floors separating dwellings and for floors separating dwellings from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification.

## DISCLAIMER

*The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. All workmanship must be carried out in accordance with AS 3958.*

*The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application. Users are asked to check that the literature in their possession is the latest issue.*

## TECHNICAL DATA

### Properties:

Weight:	5mm Mat – approx 4.60Kg/ mat
Volume:	5mm Mat – 0.00605 m <sup>3</sup>
Density:	5 mm Mat – 760 Kg/m <sup>3</sup>

### Sound Rating: -

### Impact Sound 5mm Sound Zero Mat

ISO 140-7 : 1998 & 717-2 : 1998

Weighted Standardised Impact Sound

Pressure Level

$L_{nT,w}$ :	61
$C_i$ :	-6

### Floor Construction

- 8mm Ceramic Tile
- Davco Tradeflex Adhesive (approx 3mm)
- Sound Zero Mat 5mm
- Davco Tradeflex Adhesive (approx 1.5mm)
- 200mm Concrete Slab (40 MPa)
- 13mm Plasterboard ceiling suspended approx 110mm below slab

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