

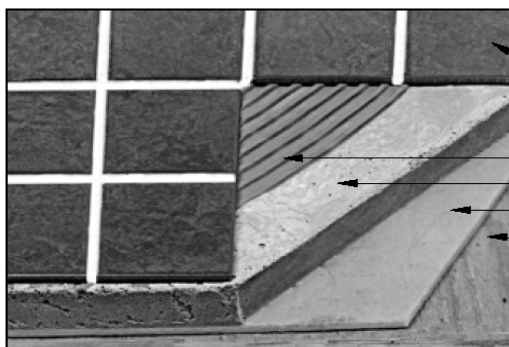
## Noise Control Floor Underlayment Soundmatt

### Description

Kinetics Soundmatt is a floor underlayment used to control sound transmission of both impact and airborne noise in floor systems. Soundmatt is a 5/16" (8 mm) thick underlayment comprised of precompressed molded glass fibers which provides a system stiff enough to prevent grout cracking in tile floors while being resilient enough to greatly reduce noise.

Applications include:

- ◆ Condominiums
- ◆ Apartments
- ◆ Schools
- ◆ Hotels
- ◆ Other multi-story occupied spaces



### Sample Installation:

- Ceramic Tile
- Thin Set Mortar
- Mortar Bed
- Soundmatt
- Plywood Subfloor

### Application

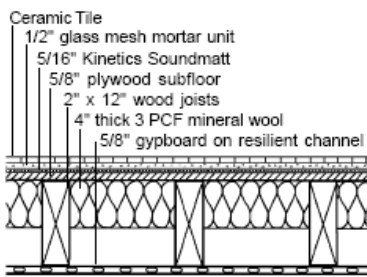
Kinetics Soundmatt is used for controlling noise in condominiums, apartments, multi-family dwellings, commercial buildings, and other areas where footfall and impact noise can be the cause of occupant complaints.

Soundmatt allows the designer to meet and exceed codes. For example, the UBC (Uniform Building Code) for Sound Transmission Control states that "hotels and apartment houses" are "required to meet a sound transmission class (STC) of 50" and "an impact insulation class (IIC) of 50."

Impact noise can be intrusive to occupants in spaces below. Construction that calls for hard floor surfaces such as hardwood flooring, ceramic tile, quarry tile, marble, wood parquet and vinyl tile are all areas where impact noise is of concern. Without a floor underlayment, intrusive impact noise can be objectionable.

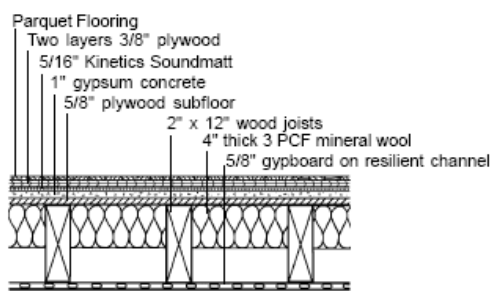
### Independent Laboratory Tests \* per ASTM E90-97 and E492-900

#### STC - 63



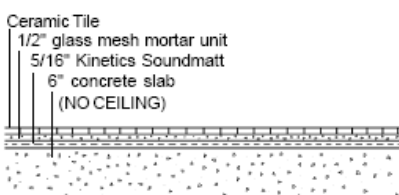
#### IIC - 54

#### STC - 58



#### IIC - 54

#### STC - 60



#### IIC - 53

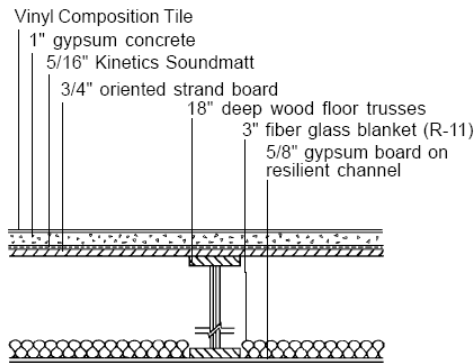
### Certified:

Soundmatt is tested with the Tile Council of America, Inc., using method ASTM-C627. Report number TCA-052-96. Please consult the factory for appropriate installation instructions.

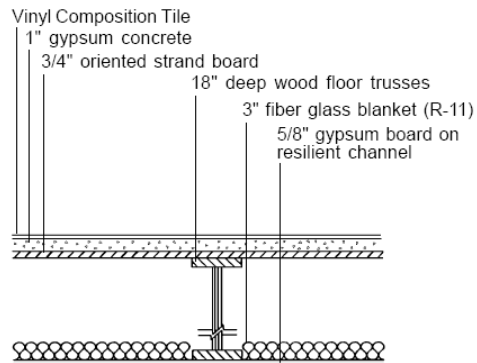
\*Testing performed by National Research Council of Canada

# Independent Field Comparison Test \*\* per ASTM E1007-90

## FIIC - 51 (with Soundmatt)



## FIIC - 33 (without Soundmatt)



\*\*Testing performed by Yerges Acoustics, Downers Grove, IL

# Rollout Isolation Mat Model RIM

**Description** The Kinetics Model RIM Floating Concrete Floor is a form work system which consists of 2 inch (51 mm) thick high density precompressed molded fiber glass isolation pads, separated by low density acoustical fiber glass. The density and spacing of the fiber glass isolation pads are factory-engineered to provide uniform deflection of the floating floor under a wide range of design loadings.

The isolation material is shipped to the job site in 4 foot (1219 mm) rolls, 50 feet (15 m) long and 1.5' (38 mm) thick. A 1/2 inch (13 mm) thick pouring form is then installed on top of the rolled out isolation material, the system temporarily waterproofed, reinforcing laid, and concrete poured.

A sound transmission class of STC 73 was achieved at Riverbank Acoustical Laboratories with the Kinetics® Model RIM Floating Floor System illustrated. This performance is sufficiently high in that additional sound transmission loss would be required only in very extreme situations. Mechanical equipment noise, loud musical instruments and industrial noise can all be significantly attenuated with a Kinetics® Floating Concrete Floor.

An impact insulation class rating of IIC 70 was also achieved with the Kinetics® Model RIM Floating Concrete Floor. This performance will isolate all but the most severe impact sources. Pedestrian footfalls and similar impact sources are rendered virtually inaudible below the isolated floor.

Kinetics Noise Control provides factory engineering and full installation drawings. Material provided includes Model RIM floating floor material, 3/4 inch (19 mm) thick PIB perimeter isolation board, perimeter adhesive, sealant, metal junction plates for



joining the pouring form. 6 mil (152 micron) polyethylene for temporary waterproofing and isolated floor drains. Factory supervision and factory installation are available.