

## Wil-Mat

Impact flooring mat

Wil-Mat is a resin bonded rubber sheeting that is resistant to aging, deformation and creep.

By installing Wil-Mat onto the structural floor and applying a screed or floor finish over it, significant improvements for both impact sound isolation and airborne transmission loss can be made.

The main component of Wil-Mat is rubber which has been recycled from car tyres. Wil-Mat is therefore considered extremely environmentally friendly.

### Advantages

- Excellent insulation characteristics
- No loss of thickness even under high static or dynamic loads
- Maximum load bearing capacity 3 tonnes/m<sup>2</sup> (30kN/m<sup>2</sup>)
- Minimises construction height
- Resistant to aging and deformation
- High resistance to creep over time
- Excellent recovery properties
- Quick and easy to install
- Can be fully recycled

### Applications

Wil-Mat is applied under the entire intermediate floor area in dwellings, commercial and industrial buildings.

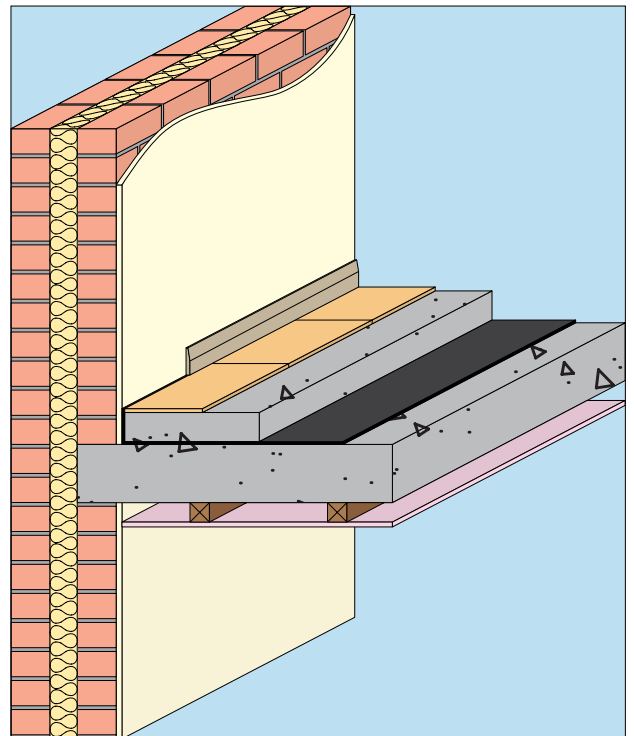
It has been tested in conjunction with:-

- Screed
- Ceramic tiles
- Timber laminates
- Tongue and grooved chipboard
- Ceilings and without ceilings

Wil-Mat is particularly suited as an insulation layer in hotels, hospitals, libraries, schools, universities, general offices, kitchens, pool decks.

### Standards and Approvals

Wil-Mat is tested according to BS EN 29052 Part 1:1992.



## Physical Information

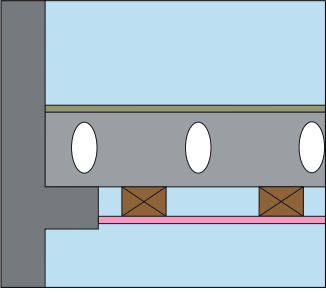
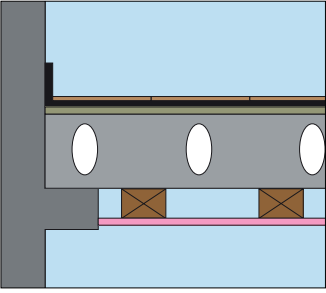
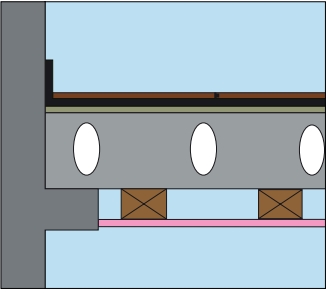
Material	Wil-Mat 45	Wil-Mat 48	Wil-Mat 60	Wil-Mat 70
Thickness (mm)	4.5	4 or 8	6	6
Roll Width (mm)	1000	1000	1000	1000
Roll Length (mm)*	12,000	10,000	10,000	10,000

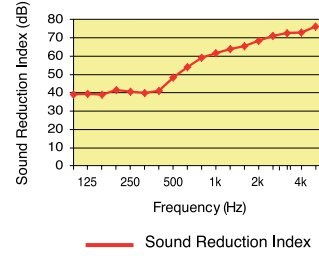
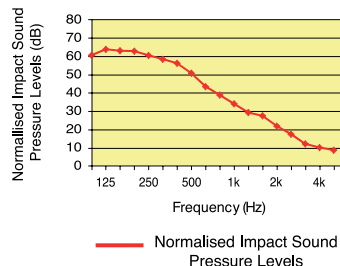
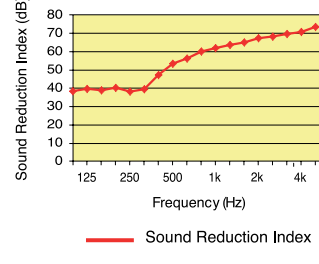
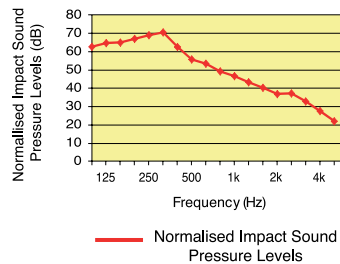
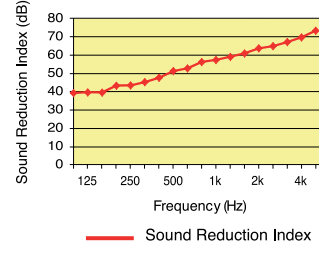
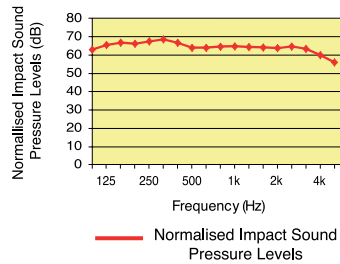
\* Non standard thicknesses and lengths are available upon request

## Technical Information

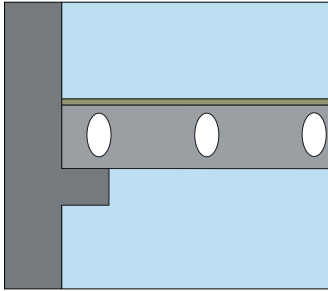
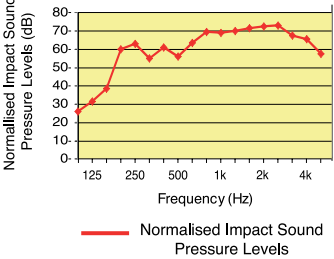
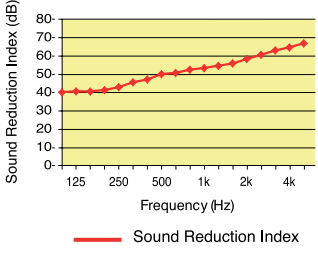
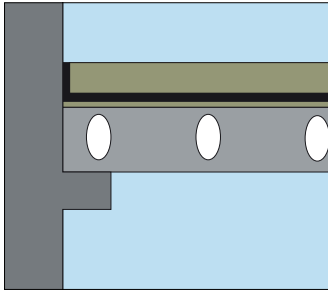
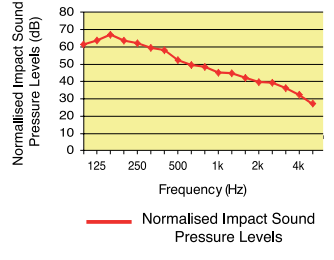
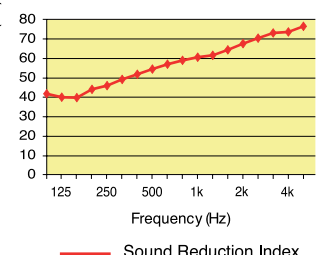
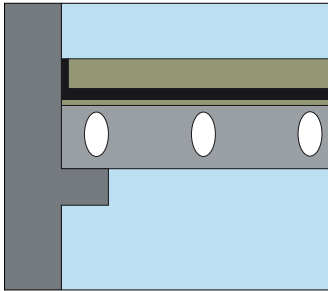
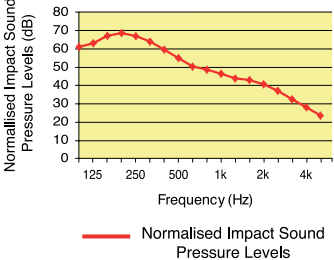
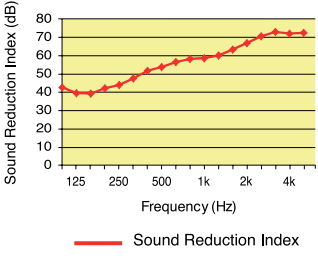
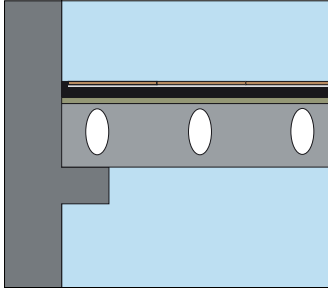
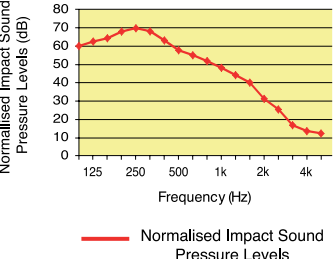
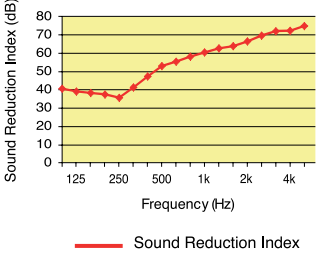
Material	Wil-Mat 45	Wil-Mat 48	Wil-Mat 60	Wil-Mat 70
Colour	Black / Anthracite	Black / Anthracite	Black / Anthracite	Black / Anthracite
Weight (kg/m <sup>2</sup> )	2.70	4.26	3.60	3.60
Max Load Bearing (kg/m <sup>2</sup> )	3000	3000	3000	3000
Thermal Conductivity (W/mK)	0.14	0.14	0.14	0.14
Deflection	-	1.8kPa <1mm	1.8kPa <1mm	1.8kPa <1mm
Temperature Resistance	-20 to +80°C	-20 to +80°C	-20 to +80°C	-20 to +80°C

## Wil-Mat with Ceiling Insulation

Floor Structure	Floor Type	Impact dB (Ln,w)	Airborne dB (C;ctr)
	12.5mm Plasterboard 2" x 2" battens/ 150mm Concrete Floor	70	55 (-1;-5)
	12.5mm Plasterboard 2" x 2" battens/ 150mm Concrete Floor/ WIL-MAT 45/ 8mm Ceramic Tiles	60	54 (-3;-7)
	12.5mm Plasterboard 2" x 2" battens/ 150mm Concrete Floor/ WIL-MAT 60/ 6mm Laminate Floor	55	52 (-1;-5)



## Wil-Mat Under Screed Insulation

Floor Structure	Floor Type	Impact dB (Ln,w)	Airborne dB (C;ctr)
	15mm Screed/ 150mm Concrete Beam	76	53 (-1;-4)
			
	65mm Screed/ WIL-MAT 48/ Concrete Beam	56	57 (-1;-5)
			
	65mm Screed/ WIL-MAT 70/ Concrete Beam	58	56 (-1;-5)
			
	150mm Concrete Floor/ WIL-MAT 60 18mm T&G Chipboard	58	56 (-1;-5)
			

### Installation Guidelines

Before installing the Wil-Mat, ensure the concrete floor is dry, clean and free of dust. Minor variations of 1-2mm in the concrete surfacing will not be detrimental to the performance of the Wil-Mat.

Prior to cutting, unroll the Wil-Mat and leave it to settle for two to three hours. This allows any tensions in the roll from the production process to dissipate.

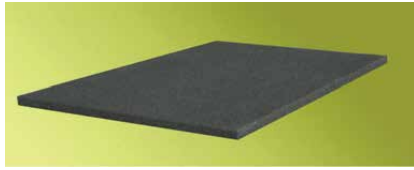
Lay out the Wil-Mat ensuring that the edges are tightly butted and taped to ensure the sheets do not move apart during the pouring of the screed layer.

Alternatively, the Wil-Mat can be adhesively bonded to the structural concrete and all the Wil-Mat joints can be adhesively bonded or sealants used instead of taping.

To prevent flanking, the Wil-Mat must be turned up at the wall edges to a height of 5mm above the finished floor level.

## Wil-Mat

There is a tested Wil-Mat solution to suit your every application. Either select a product on this brochure or contact our Technical Services Department at +603-7846 6728 for assistance.



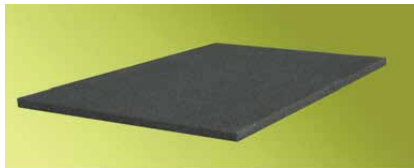
WIL-MAT 45  
Under ceramic tile insulation



WIL-MAT 48  
Under screed insulation



WIL-MAT 60  
Under laminate insulation



WIL-MAT 60  
Under ceramic tile insulation



WIL-MAT 70  
Under screed insulation

Wil-Mat 45 is especially suited to sound insulation of ceramic tiles. If the ceramic tiles are to be bonded to the Wil-Mat without a cementitious screed, a specialist adhesive will be required.

Wil-Mat 48 improves under screed sound insulation.

Wil-Mat 60 is an under laminate/timber laminate insulation.

Wil-Mat 60 (ceramic) provides an improved performance for under ceramic tile insulation. Specialist adhesive will be required to bond directly to the tile.

Wil-Mat 70 is an under screed sound insulation.

For further details on the correct adhesive to be used in each application, please contact our Technical Services Department.

SoundPro® is the registered trademark of Wilhams Insulation Far East Sdn Bhd

**WILHAMS**

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