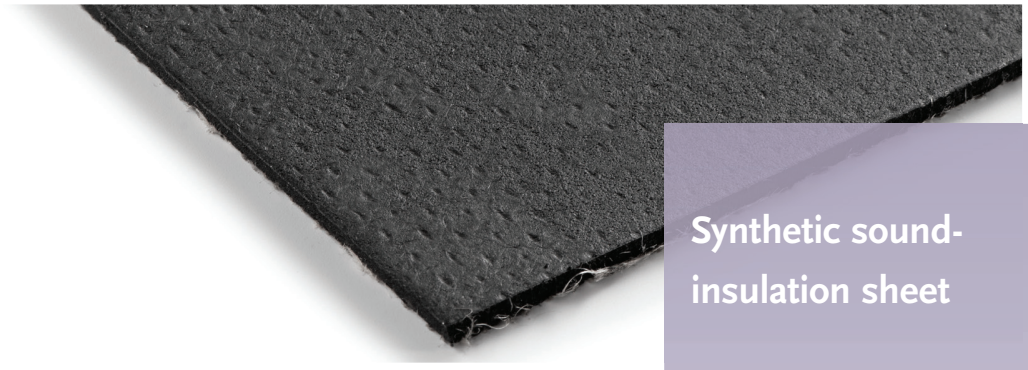

Synthetic sound-insulation sheet

ISOMAT KE

Isomat KE is a sound-insulating mat made of synthetic material, which has jute backing on one or both sides. The jute backing reinforces the internal tensile strength and can be easily glued to plywood or steel plate.

APPLICATIONS
Isomat KE has been specifically developed to improve the sound insulation of light metal, wood and synthetic sheet material. The whole surface area of Isomat KE should preferably be glued. Isomat KE is recommended for situations where the reduction of noise penetrating a relatively light wall or floor should be reduced. For example, the engine noise that penetrates through the wooden floor of a motor yacht into the steering cabin, or noise that penetrates air channels and machine casing. The greatest reduction is achieved if the wall or floor, to which Isomat KE is applied, is not heavier than the insulation sheet itself.

SOUND INSULATION
More information on sound insulation is given in the graphs. The insulation values have been measured in accordance with DIN EN 20140 and ISO 140.

FIRE-CLASSIFICATION
Flame-resistant according to : DIN 4102 B2 and DIN 75200 max. 100 mm/min.

DIMENSIONS
Sheet dimensions: 1000 x 1000 mm. Thickness: see weight. Other dimensions on request.

WEIGHT
- Type KE 8: 8 kg/m² (thickness: 3 mm)
- Type KE 14: 14 kg/m² (thickness: 5.2 mm)
- Type KE 18: 18 kg/m² (thickness: 7.5 mm)
- Type KE 24: 24 kg/m² (thickness: 10 mm)

Density: 2,800 kg/m³.

SHAPE, APPEARANCE AND COLOUR
Sheet colour: dark grey

COMPOSITION
Isomat KE sheeting is composed of polymer filled with barium. This heavy-mass sheeting does not contain any heavy metals.

RESISTANCE TO LIQUIDS
Resistant to water, oil, and many solvents and cleaning agents.

PROPERTIES
- Sound-insulating
- High-density
- Extremely pliant
- Durable

APPLICATIONS
- Motor yacht floors
- Air channels
- Machine casings
- Doors and panels
- Dividing walls

FIRE CLASSIFICATION
DIN 4102B2

SOUND ABSORPTION
See chart

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TEMPERATURE RESISTANCE

The material can withstand temperatures of -40°C to approximately 80°C.

INSTALLATION

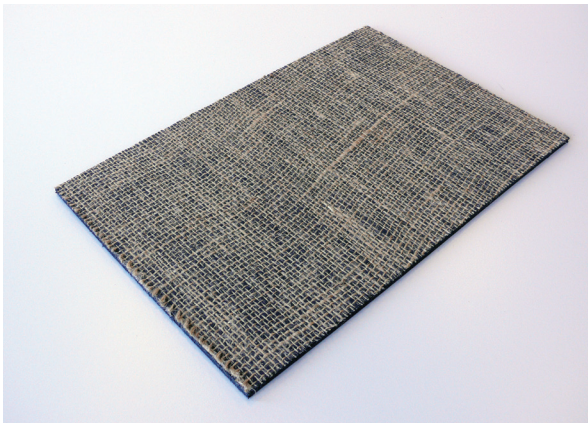
- Can be cut to size easily using a knife, circular saw, band saw or sheet scissors.
- Synthetic material can be thermoplastically remodelled at temperatures of approximately 100°C. Can be heated in an oven or with an infrared emitter or burner.
- Make sure that the surface is dry, and free of dust and grease.
- For proper sound insulation, the sheets must be properly aligned to each other. Any seams between the sheets and connecting areas should be sealed with Silicon sealer.
- Glue with Select AAC contact glue on areas that do not reach temperatures higher than 70°C.

CUSTOM SOLUTIONS

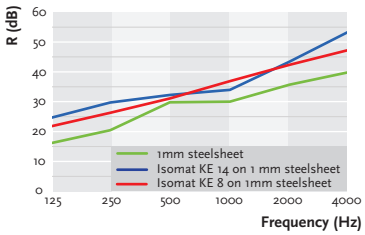
We can manufacture Isomat KE in any desired size or shape, including any cut-aways with our water jet cutter or punching machine. The added costs are returned by faster and simpler installation. Ask us for options and prices!

DISCLAIMER

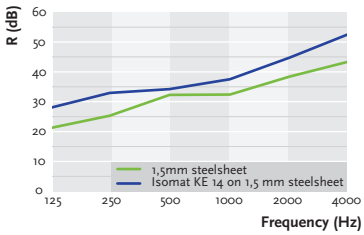
The recommendations and information listed in this product sheet are shown as complete and accurate as possible, but offer no guarantees. Check with one of our specialists or perform your own test.



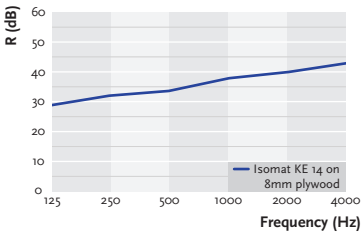
Isomat KE



Isomat KE glued to a 1 mm steel plate



Isomat KE glued to a 1,5 mm steel plate



Isomat KE glued to 8 mm multiplex

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