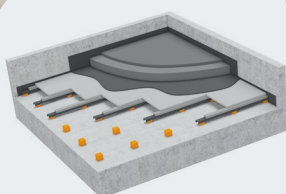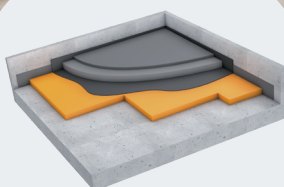# Effective Impact Noise Insulation
of Floors

» Sound control solutions for the most demanding situations

» Suitable for wet and dry construction
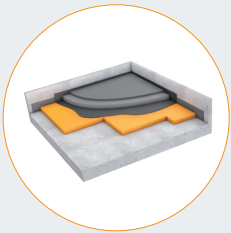
» Sound control for low-frequency ranges

getzner
engineering a quiet future

Highly effective protection against impact noise with the Acoustic Floor Mat

Easy-to-handle mats which are simple to install

## Acoustic Floor Mat – The ideal solution for all situations

Impact noise reduction up to 35 dB

Getzner's products are highly effective and cost-efficient solutions made of foamed polyurethane designed to reduce impact noise transmitted through floors. They provide highly resilient impact noise protection in commercial and industrial premises, as well as in residential and public buildings.

The Acoustic Floor Mat is installed as a full-surface layer below the screed. Only a few millimetres thick and in a range of different types, the floor mats achieve between 21 and 35 dB impact noise reduction, or up to 38 dB as a double layer.
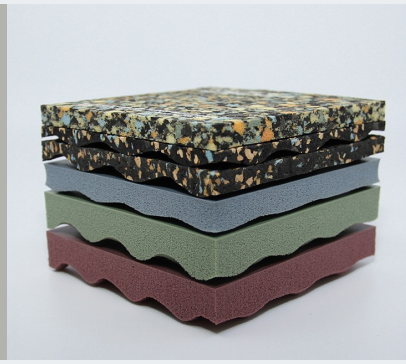
They can therefore be used as a cost-effective solution to meet demanding acoustic requirements as well as minimum specifications stipulated in standards.

Floor

Screed

PE film

Acoustic Floor Mat

Foundation
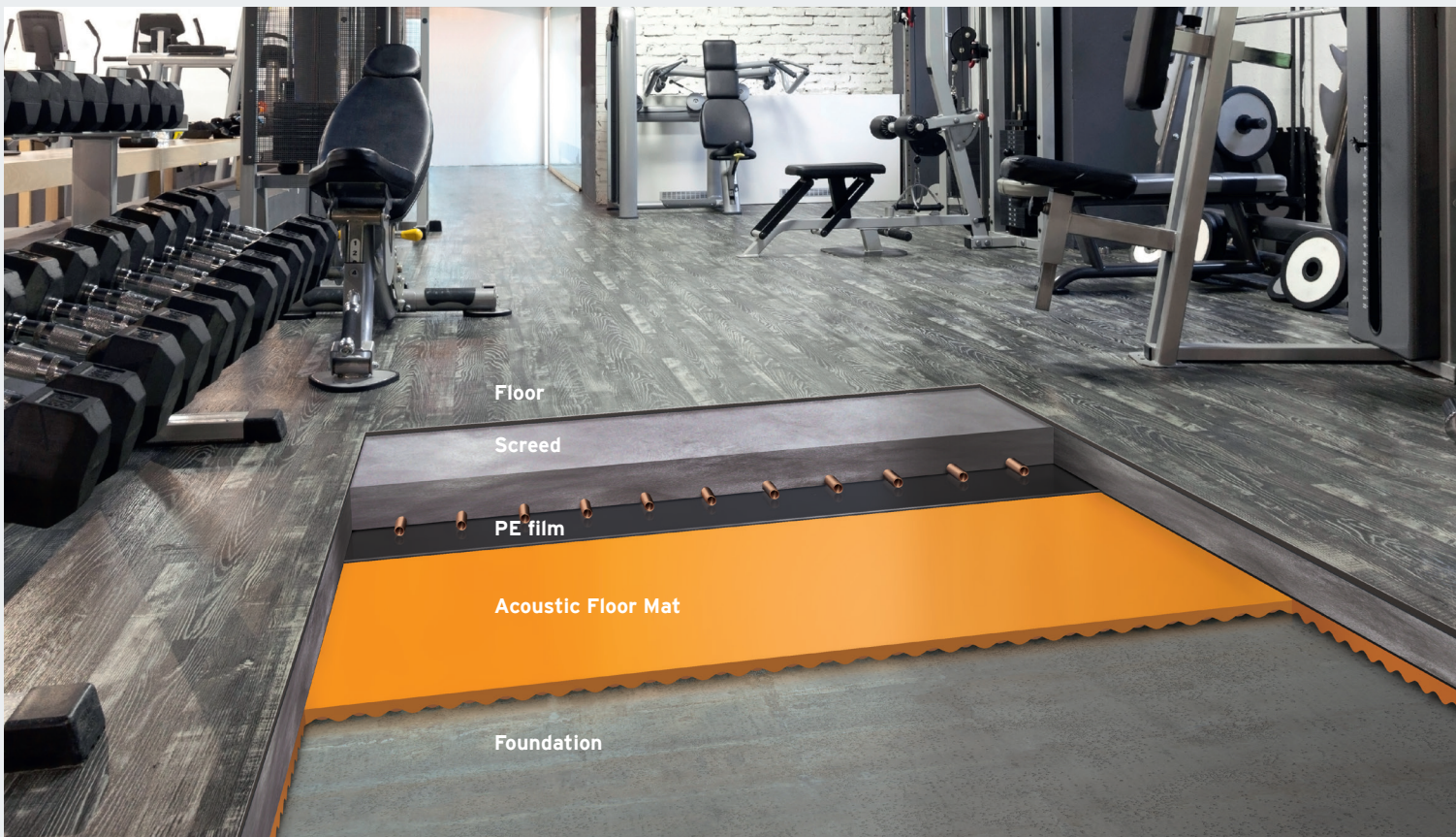
Sylomer® edge insulation strips

Acoustic Floor Mat product range

Easy handling and quick installation

Advantages

- Impact noise reduction of up to 35 dB (ISO 717-2)
- Consistently high impact noise insulation across the load range and service life
- Load range up to 5000 kg/m^2
- Extremely low deflection, even under high loads
- Free from softeners
- Resistant to ageing, rot-proof, resistant to chemicals and odour-free
- A+ classification for indoor air quality
- Easy handling and quick installation thanks to low weight

Installation and delivery dimensions

The Acoustic Floor Mat is delivered in convenient sheets. The mats are installed as a full-surface layer, profiled side facing down and seamless, on a level foundation. A film is usually laid on top of this as a vapour barrier. The screed can then be laid directly on top of these layers. For further information on installation, please see the installation instructions.

Details

To avoid sound bridges, the screed must be completely separated from the support structure. Edge insulation strips are used for this purpose. Pipe openings must also be decoupled.

Range of use

- Supermarkets
- Fitness centres
- Hospitals
- Commercial kitchens
- Production halls and warehouses
- Hotels
- Nursing homes
- Schools and universities
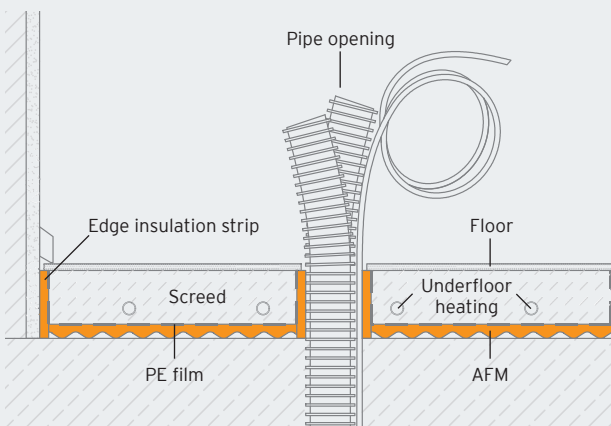- Concert halls
- Libraries

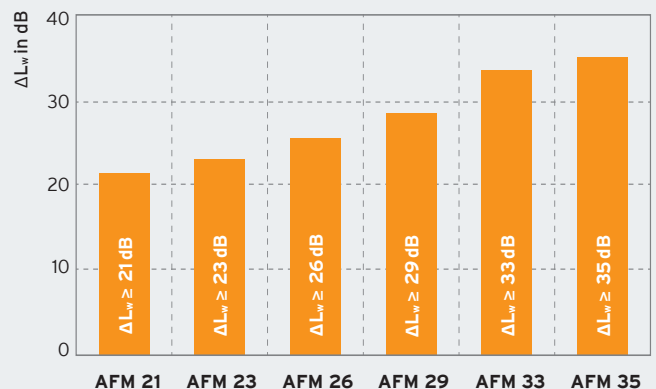Fig.1. Detailed view of installation with heated wet screed

Pipe opening
Edge insulation strip
Floor
Screed
Underfloor heating
PE film
AFM

Fig. 2: Overview of the Acoustic Floor Mat range

ΔL$_w$ in dB

AFM 21: ΔL$_w$ ≥ 21 dB
AFM 23: ΔL$_w$ ≥ 23 dB
AFM 26: ΔL$_w$ ≥ 26 dB
AFM 29: ΔL$_w$ ≥ 29 dB
AFM 33: ΔL$_w$ ≥ 33 dB
AFM 35: ΔL$_w$ ≥ 35 dB

Acoustic Floor Blocks for impact noise protection in demanding situations

Efficient decoupling with a low installation height

Impact noise reduction up to 38 dB

## Acoustic Floor Blocks – Quality for the most demanding situations
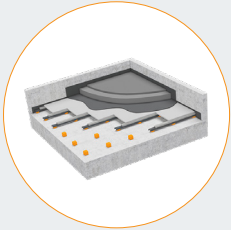
Point bearings from Getzner are particularly suited for rooms with demanding sound control requirements. That is why they are often found in buildings such as recording studios, cinemas, nightclubs and gyms. However, car parks, luxury apartments and hotel rooms can also be effectively decoupled from unwanted surrounding noise.

The homogenously foamed bearings made from Sylomer® stand out due to their proven effectiveness and durability. The range, made up of various materials, provides the perfect solution whatever the application. They can be used under both dry and wet screeds and offer planners and fabricators an economical form of impact noise protection.

Floor

Screed

PE film

Lost shuttering

Void damping
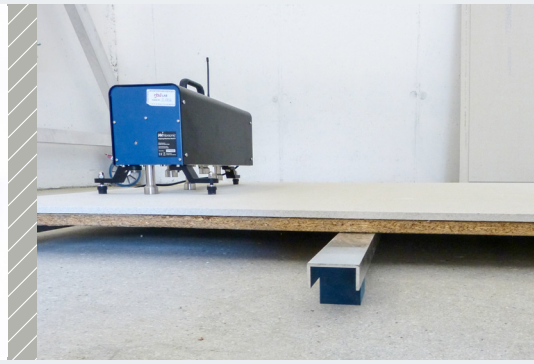
Acoustic Floor Blocks

Foundation
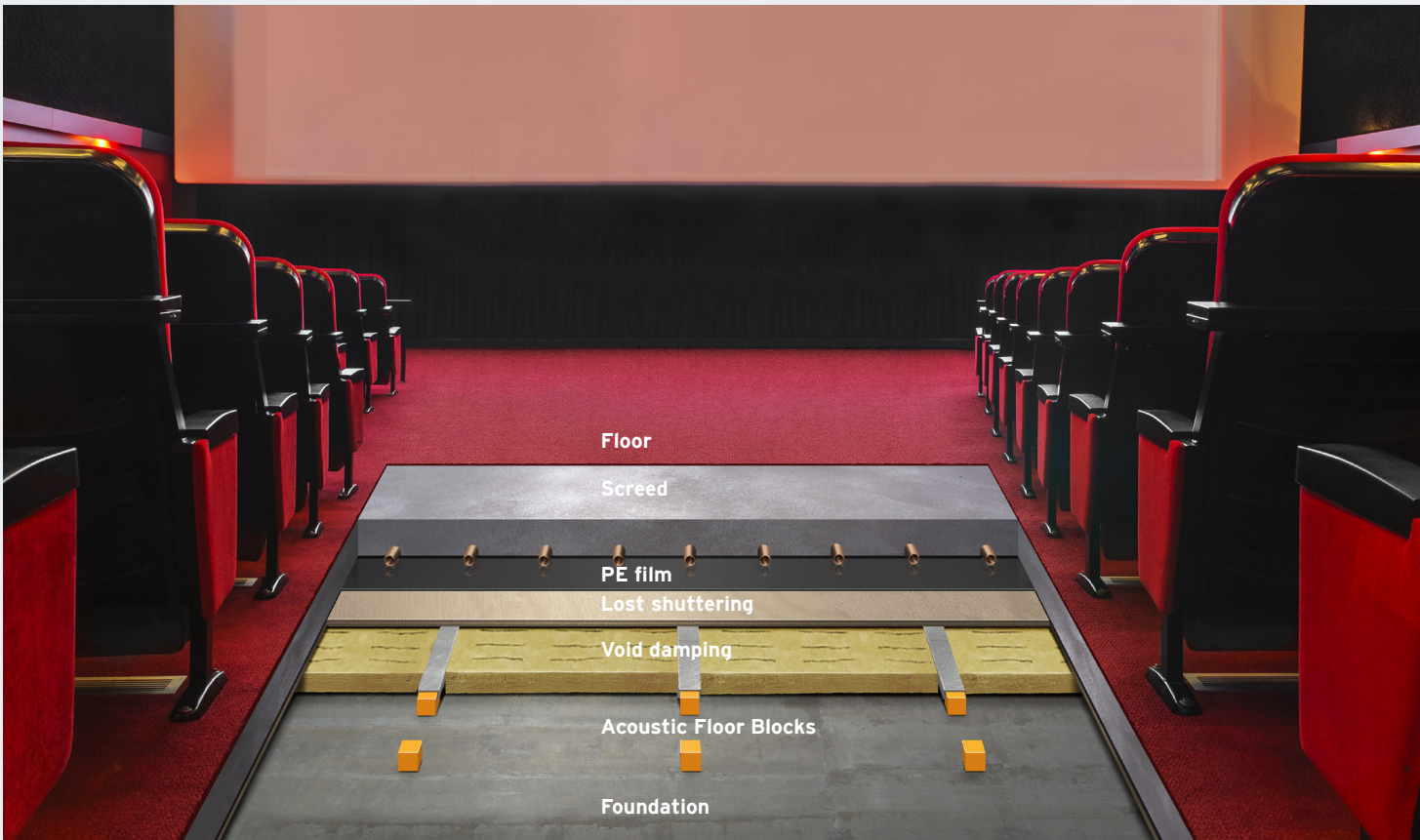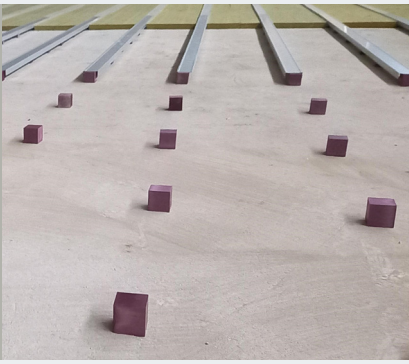
Flexible spacing allows the solution to be adapted to the situation

Acoustic Floor Blocks product range

Proven effectiveness

Advantages

- High-quality Sylomer® material with proven long-term properties
- Impact noise reduction even in the low-frequency range
- Natural frequencies up to 8 Hz possible
- Flexible floor installation heights of 80 mm to 500 mm
- Low deflection
- Free from softeners
- Economical sound control solution to meet demanding requirements
- Increased walking comfort

Installation and delivery dimensions

The Acoustic Floor Blocks come in manageable boxes of 245 pieces

each. They are installed according to the previously defined grid plan. If necessary, the cavities between the bearings can be insulated with mineral wool. The Acoustic Floor Blocks are fixed in their positions using the corresponding profile rails or drywall panels. Depending on the type of implementation, it is possible to use either a floating screed or drywall panels of the appropriate strength.

Details

Edge insulation strips from Getzner prevent sound transmission between the floating screed and adjacent components, such as walls, supports or pipe openings. They are therefore an indispensable addition to the AFM and AFB products for floating floors.

Range of use

- Cinemas
- Recording studios
- Concert halls
- Fitness centres
- Theatres
- Conference centres
- Nightclubs
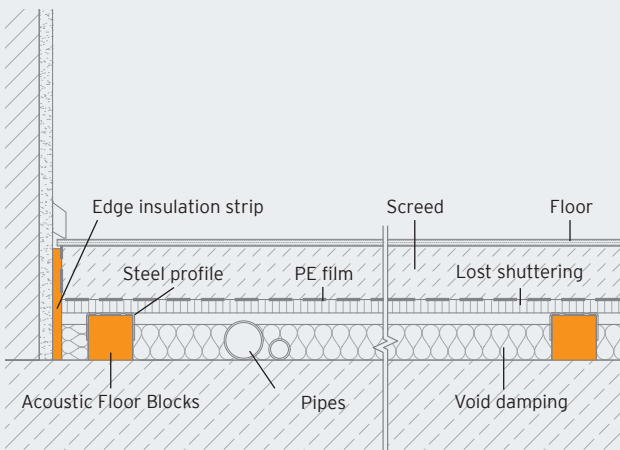- Dance studios
- Bowling alleys
- Schools

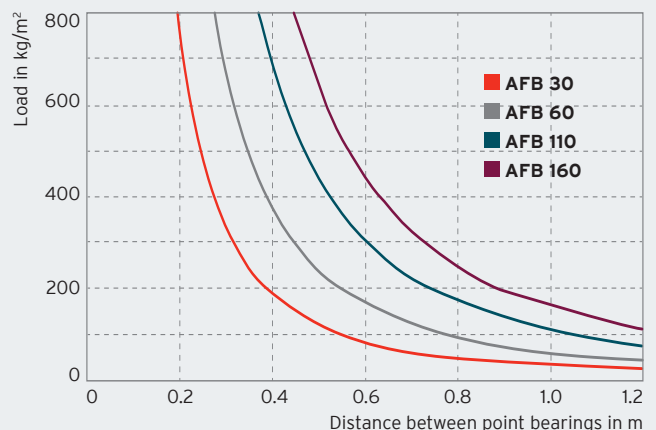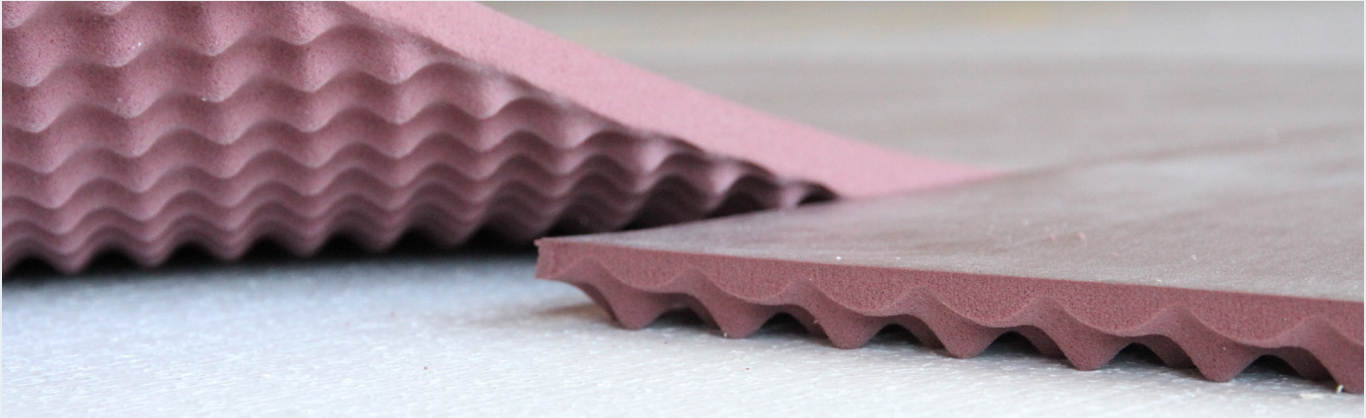Fig. 1 Detailed view of installation with wet screed

Fig. 2: Distance between point bearings with different loads

Tests

In addition to regular internal quality control, the products also undergo external quality checks to ensure consistent product quality. The effectiveness of all types of the Acoustic Floor Mat have been successfully tested in accordance with standardised test procedures at external institutes and through on-site measurements and have been granted European Technical Assessment (ETA) certification.

Floating floor references (extract)

– Bakery, Bad Vöslau (AT), 2020
– Migros En Gruvatiez, Orbe (CH), 2020
– Peninsula Hotel, Istanbul (TR), 2019-2020
– Mall of Tripla, Helsinki (FI), 2019
– COOP Vernier (CH), 2019
– Medipol Hospital, Istanbul (TR), 2019
– Mall of Tallinn, Tallinn (EE), 2018
– Lidl-Markt, Vienna (AT), 2018
– Migros, Ilanz (CH), 2017
– Sparmarkt, Graz (AT), 2017
– Hard Rock Cafe, Lyon (FR), 2016
– Citygrove cinema, London (GB), 2016
– Floor above cinema, Sao Paulo (BR), 2016
– Auditorium in the Palace of Versailles (FR), 2015
– Fitness studios in London (GB), 2015
– Red Bull Music Academy, Tokyo (JA), 2014
– Paris Philharmonic Hall (FR), 2013

Find out more at
**https://www.getzner.com/
en/applications/construc-
tion/building-acoustics/
floating-floors**

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