

Stable and reliable

MEHA – the natural choice for insulating and levelling fills



Extremely stable thanks to bound form as per DIN 18560-2



Insulates heat and sound



Sustainable, ecological and exemplary natural product, dust-free



Suitable for dry, wet and mastic asphalt floor screeds



Proven quality – for over 60 years





High stability through bound form

Elongated granulate form (does not roll away)

Hemp = solid material that is not artificially expanded.
→ Because there is no trituration, stability is guaranteed

Impregnation has an adhesive effect.
→ Bonding to form an insulating panel

Structural-physical properties

Heat and sound-insulating properties (heat conductivity as per DIN: 0.060 W/(m*k), impact sound reduction (concrete floor) 19-26 dB)

Fire behaviour in line with DIN (B2).
Exemplary ecological properties

Building approval by DIBt [Z-23.11-1185]

Processing benefits

Packaging unit: 100 l per bag / Volumetric weight (compressed): approx. 140 kg/cbm

From 10 to 200 mm (recommended installation thickness)

Dust-free, natural building material – tried and tested for more than 60 years

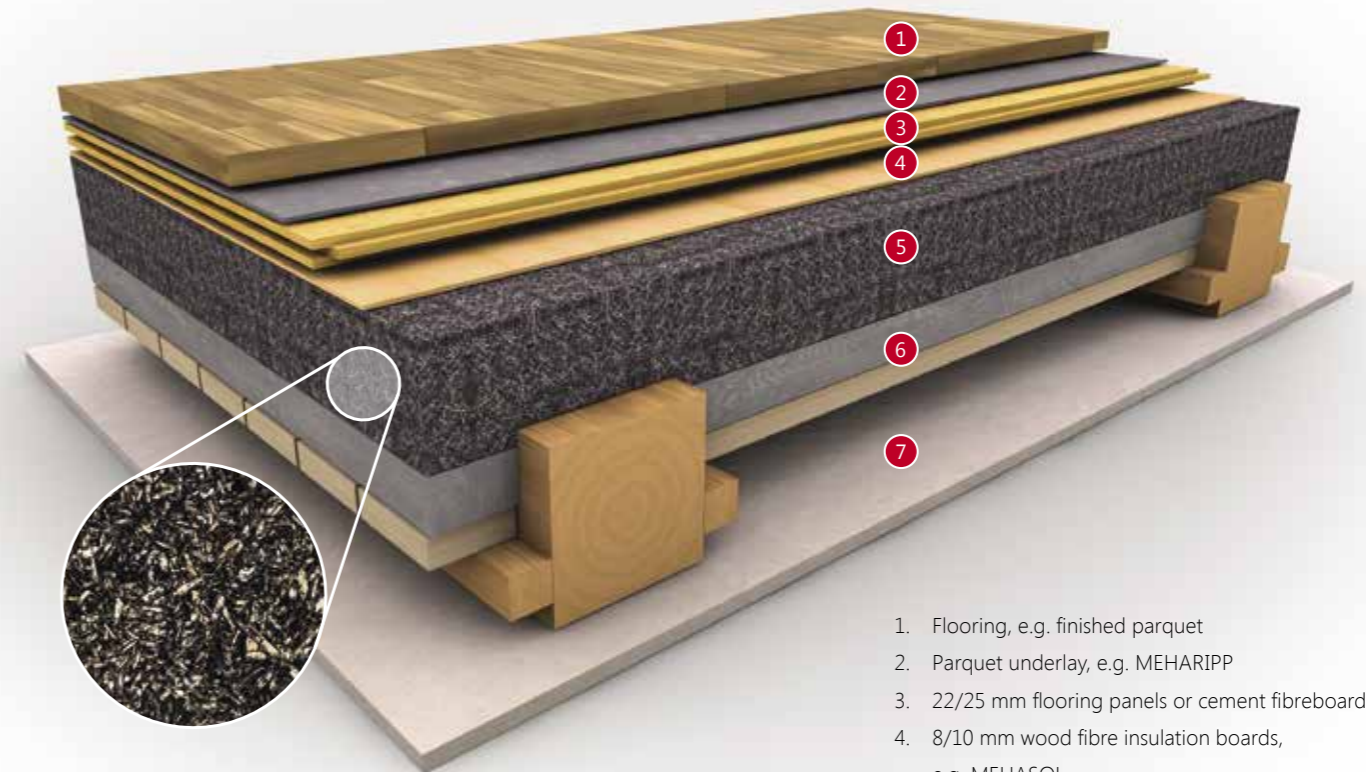
MEHA – the natural choice with more than 60 years of experience

MEHA Dämmstoff und Handels GmbH has been a specialist in insulating and levelling fills in floor construction since 1957. The company offers innovative products in the field of environmentally friendly insulating materials.

MEHA insulating and levelling fills have been successfully used in floor construction for over 60 years, allowing users to benefit from a multitude of advantages. The ecologically exemplary levelling fills easily meet the bound form requirement as per DIN 18560-2, have a heat and sound-insulating effect, guarantee the highest level of stability and ensure dust-free laying.



Insulating fill with adhesive effect in bound form



1. Flooring, e.g. finished parquet
2. Parquet underlay, e.g. MEHARIPP
3. 22/25 mm flooring panels or cement fibreboards
4. 8/10 mm wood fibre insulation boards, e.g. MEHASOL
5. **MEHABIT**
6. Wooden beam floor with heavy filling (loam, cinder, etc.)
7. Subfloor

MEHABIT is a highly resilient, dust-free insulating and levelling fill as standard. It primarily consists of the ligneous stalk of the hemp plant, the so-called hemp hurd, which is impregnated using a solvent-free bitumen film that is also used for drinking water.

This bitumen impregnation fulfils two functions: it provides the hemp with natural protection in line with construction-specific requirements, while also creating an adhesive effect that enables the material to set easily following installation (it can be walked on with caution).

Due to the increased pressure load of the complete floor construction, the fill compacts on its own to form a pressure-resistant insulating board and thereby easily complies with the „bound form“ requirement of 18560-2. **MEHABIT** is therefore ideally suited to floors subjected to heavy strain (children's rooms, corridors).

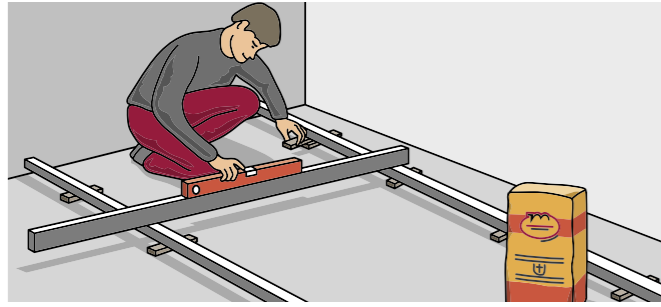
Field of application

- Height compensation in concrete or wooden beam floors, as a substructure under dry, wet and mastic asphalt floor screeds.
- Stable filling and covering of gaps and pipeline bundles.

Protection from moisture

- Only install **MEHABIT** on a dry base surface. Ensure that adequate protection from moisture is provided. The general processing and laying guidelines apply, as do the set-up recommendations and the laying notes. The product data sheets must be observed.

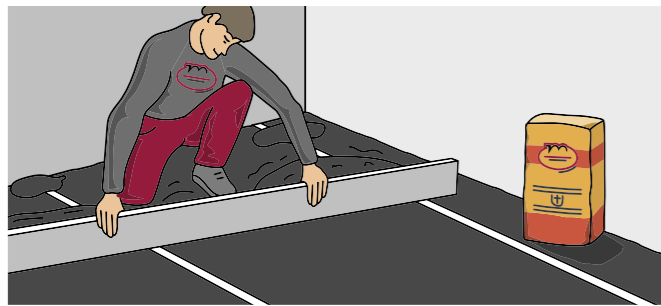
Installation instructions



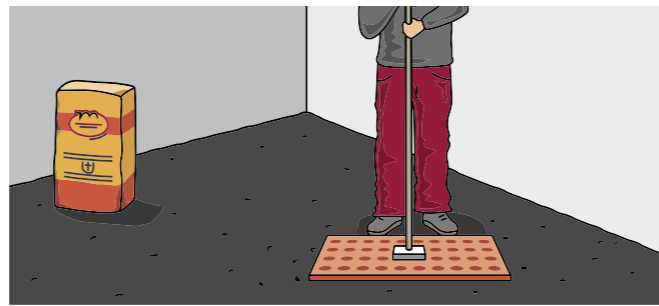
1. Check the residual moisture and load-bearing capacity of the base surface. Adequate moisture protection pursuant to DIN 18533 and DIN 18534 must be ensured. Align levelling rails (e. g. iron or aluminium) at parallel distances on the cleaned suspended floor. Include an additional height of roughly 10 – 12 % in your calculations.



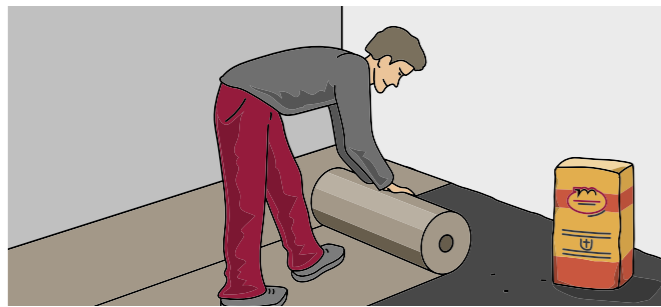
2. Spread the MEHA fills using a rake. It is possible that some of the **MEHABIT** has hardened slightly in the transport bags; however, you can easily crush these lumps.



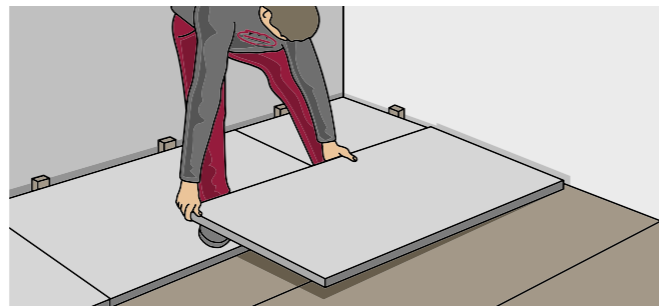
3. Using a straightedge, remove the fill above the levelling rails in the lateral direction(!), pushing it back and forth. Then remove the levelling rails and fill in the resulting grooves.



4. Compress and smooth the dry fill using a perforated wooden rammer. This fulfils two functions: the granulate chips are aligned horizontally and any air that remains in the insulating layer can escape. For fill heights of up to 80 mm, a single compression process is sufficient (if greater levelling heights are required, the fill is compressed once for approximately every 80 mm). You can now carefully walk on the compressed insulating layer.



5. Cover the **MEHABIT** / **MEHAPOR** layer with **MEHARIPP** (up to 30 mm), and larger fill heights with **MEHASOL**. One of the purposes this serves is to prevent loose hemp hurds from entering the groove of the particleboards when the particleboards are laid subsequently. When **MEHABIT**, **MEHAPOR** and **MEHASPORT** are installed in areas where greater, and in particular dynamic loads are to be expected, sufficient pressure distribution must be provided (by means of load distribution plate) to ensure that the installed fill is compressed evenly.

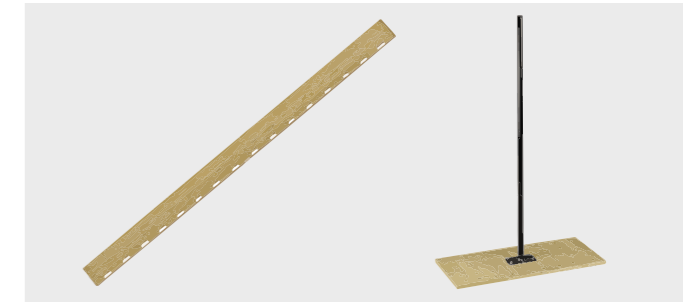


6. You can then immediately start with the floating installation of the base plates. Keep a distance of approx. 1.5 from the wall on all sides. To do so, fix wedges to the panels nearest the walls. These wedges must be removed again once the subfloor is completed.

Dry subfloors – clean and easy



7. You can then immediately lay parquet, plastic flooring or carpets on these flooring panels. This allows you to create a homely, healthy floor quickly and cleanly.



Tools: As already mentioned in the instructions, for laying insulating material from MEHA correctly we recommend the MEHA special smoothing board and the MEHA wooden rammer designed specifically for this purpose. Further tips on installation can be found on page 7.

MEHA coverings



MEHARIPP

2.5 mm-thick, stable ribbed board with moisture-regulating impregnation. Because the ribs are filled, they keep their form even when under pressure and maintain their function even when the floor is subjected to high weight loads. Made of 100% used paper. **Purpose:**

- For covering MEHA fills: the ribs on the fill stabilise the granulate so that it can be walked on without any difficulties, e.g. when laying the insulating layer.
- As a parquet underlay: thanks to the pinpointed position of the full ribs, which are elastic under pressure, optimal sound insulation values can be achieved.



MEHASOL

Heat and sound-insulating wood fibre insulation boards made of soft-wood fibre, natural colour, 8 mm to 19 mm. **Purpose:**

- Pressure-distributing covering of MEHA fills for fill heights of more than 80 mm or on wooden beam floor without floor boards.
- As a substructure under self-supporting finished parquet.

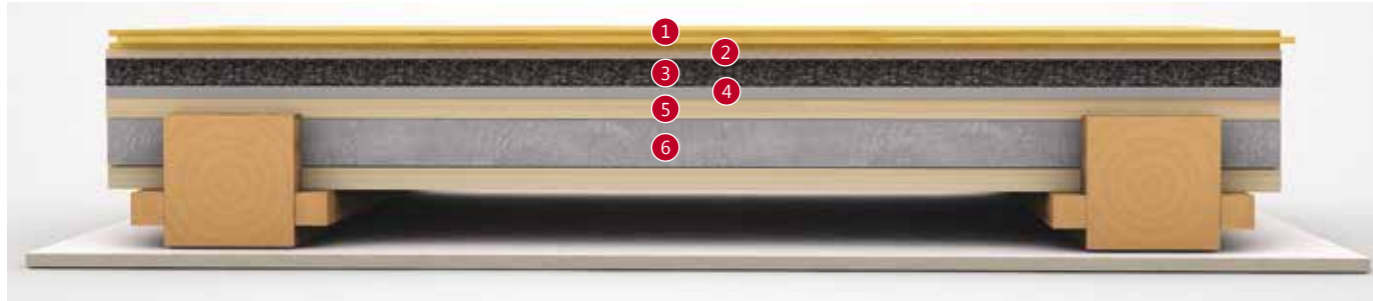


MEHAFIPP

0.5 mm-thick, stable, cost-effective felt board. **Purpose:**

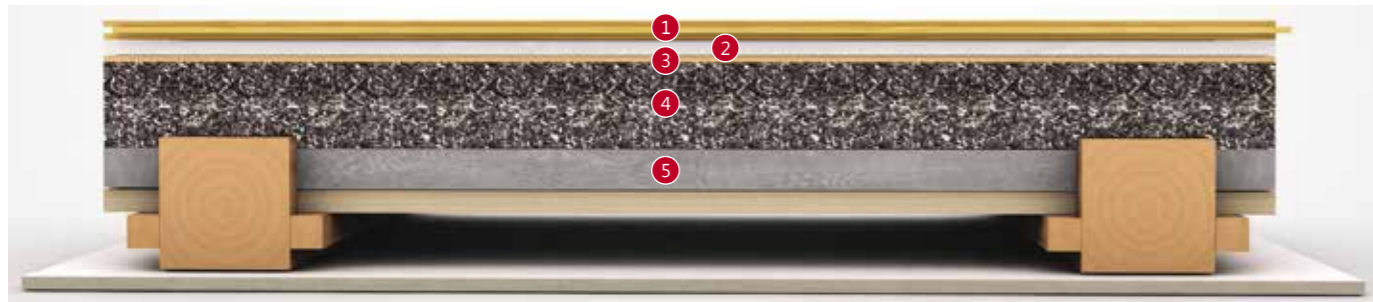
- As trickle protection for cracked subgrades.
- As a vapour-permeable separation layer, e.g. between polystyrene and flooring panel.

Installation recommendations



Floating dry floor screed on wooden beam floor with existing planking

1. 22/25 mm flooring panel or cement fibreboard
2. 2.5 mm MEHARIPP or 8/10 mm MEHASOL
3. Approx. 10-80 mm **MEHABIT**
4. MEHAFIPP as trickle protection (if necessary)
5. Existing wooden floor boards
6. Wooden beam floor with heavy filling (loam, cinder)



Floating dry floor screed on wooden beam floor with heavy filling

1. 22/25 mm flooring panel or cement fibreboard
2. Sound insulating mat (optional)
3. 8/10 mm MEHASOL load distribution plate
4. Approx. 10-80 mm **MEHABIT**
5. Wooden beam floor with heavy filling (loam, cinder)



Dry floor screed on uneven concrete surface (full-area processing of fill)

1. 22/25 mm flooring panel or cement fibreboard
2. 2.5 mm MEHARIPP or 8/10 mm MEHASOL
3. Approx. 10-80 mm **MEHABIT** for compensating unevenness and for covering cable bundles
4. 150 mm solid layer with moisture barrier

Important installation instructions

Storage/transport

MEHA fills must be transported and stored in the original packaging and protected from moisture.

General

MEHABIT, **MEHAPOR** and **MEHASPORT** can be installed under **wet and mastic asphalt screeds** as well as under **dry subfloors** (floor installation boards, such as chipboard or OSB boards or cement fibre boards). Install the MEHA fills on dry ground only. Ensure that adequate protection from moisture is provided.

Waterproofing against ground moisture and non-pressurised water must be specified by the architect and put in place before the screed is installed. For structural elements in contact with soil (e.g. ground slabs), configure the waterproofing in accordance with DIN.

If necessary, the insulation and compensation layer must be protected against moisture by suitable measures (e.g. vapour barriers). A polyethylene film (PE film) must be placed underneath the insulation and levelling layer as protection against rising residual moisture from unfinished floors (e.g. concrete false ceilings). As a rule, no vapour barrier may be used within wooden beam ceilings to avoid possible condensation damage.

As a matter of principle, MEHA's fills should only be installed after window, heating and plastering work has been completed and the rooms have dried out.

When ordering the bulk material, take into account the necessary overspill of 10-12 % and any floor unevenness.

Tools

Special levelling board, special tamper, rake, gauges, spirit level, metal straight edge, wheel chocks.

Cover

For larger joints in wooden substrates, through which the material could trickle away, a diffusion-open **trickle protection** (e.g. MEHAFIPP) must be laid (**no foil**, otherwise there is a risk of condensation water damage!)

After stripping and compacting, and before applying the covering, the fill should be checked for **evenness** by means of a straight edge and spirit level. Unevenness is to be levelled out, **edge zones may have to be re-spread**.

When the fill is installed in areas where greater, and in particular dynamic loads are to be expected, sufficient pressure distribution must be provided (by means of load distribution plate) to ensure that the installed fill is compressed evenly.

Chip/OSB boards with tongue and groove are to be installed in a thickness of **18/19 mm, ideally 22 mm**, staggered and glued all round; for pouring heights from 100 mm in **25 mm** thickness or double-layer (staggered).

Even in the case of **cement-fibre boards** with a step fold, the fill must be covered with a load distribution plate. Otherwise, the installation guidelines of the individual manufacturers must be observed. The same applies to standards and recognised rules of technology.

If you have any further technical questions, please don't hesitate to use our hotline - we'd be glad to assist.

Telephone hotline: 06235 9255-14

You can find further assistance at www.meha.de

- Model tender specifications for dry, wet and mastic asphalt screeds.
- Product and safety data sheets.
- National and international sales partner.



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