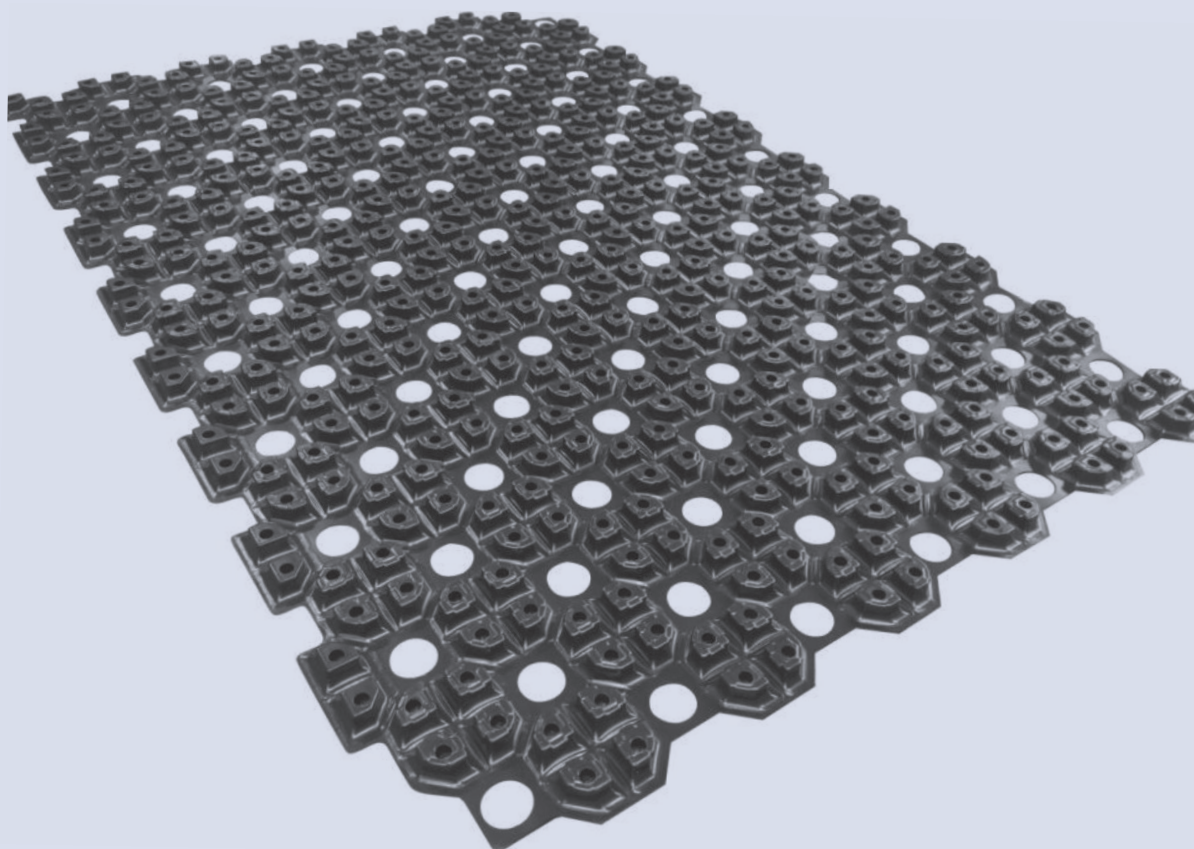
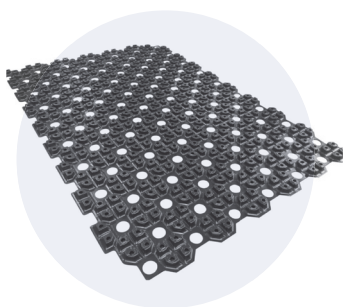




Henco Underfloor Heating

Castellated UFH Panel Manual

Construction and application



Underfloor heating

UFH-CASTMAT

The mat is intended for use on mineral substrates in renovated rooms. These can be cement concrete substrates, anhydrite screeds or existing ceramic floors. Depending on the type of substrate, an appropriate primer should be selected.

Underfloor heating polystyrene mat made in the thermoforming process. The mat is perforated and coated with an adhesive that allows it to stick to the substrate. The glue is secured with siliconized paper.

Advantages

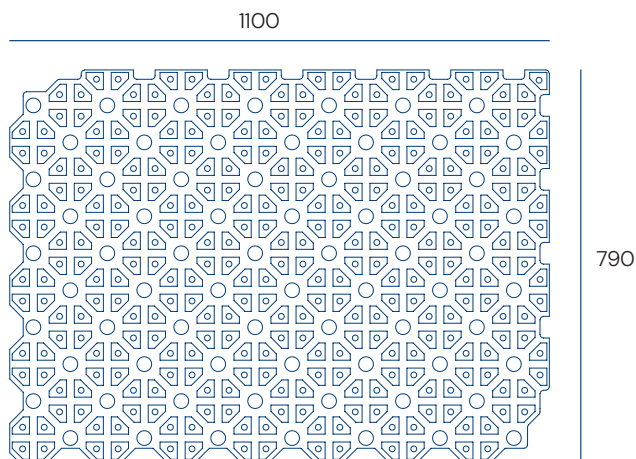
- ✓ A mat dedicated to a **very low installation** by concrete screed
- ✓ The mat holds the pipe permanently and remain it **stable**, so there is **no** need to use **additional fastening elements**
- ✓ The perforation of the mat guarantees a **good connection** of the new screed with the already existing mineral basis
- ✓ The mats are originally covered with an **adhesive ensuring** a permanent connection to the already existing mineral basis.

Usage

- ✓ **Mat dedicated to pipes with an external diameter of 16 mm**, which can be led in spacings of 7.5; 15; 22.5; 30 cm (Multiplicity 7.5). It is suggested to use the Pert-Evoh-Pert pipe 16x2 mm

It should be remembered that the floor on which we plan to make underfloor heating with this technique is properly thermally **insulated**, **leveled**, even and **free of dirt**.

Technical data



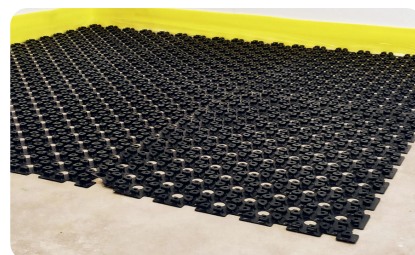
Mat Size (L x W)	1100 mm x 790 mm
Effective Panel Size (L x W)	1050 mm x 750 mm
Effective Area	0.82 m²
Tab Height	20 mm
Mat Thickness	1 mm
Permissible Size of Heating Pipes	16 mm
Pipe Spacing Options	7.5 cm, 15 cm, 22.5 cm, 30 cm
Underfloor Heating Standard	DIN 18560-2: A

Performing the installation

The substrate should be properly prepared and sealed. Edge dilatation should be arranged next to the walls. Expansion between rooms as well as dividing larger surfaces may be necessary and depends on the surface of the underfloor heating and the type of floor finish.

Step 1

CASTMAT16 should be placed parallel to the walls and glued to the base, fastening them to each other in the same row. It is possible thanks to two extreme rows of tabs profiled in a way that enables connection. Mats should be placed only where the underfloor heating pipes will be led.

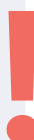


Step 2

The pipe should be anchored between the tabs in CASTMAT16 mats and led parallel or diagonally to the mat edge. For this purpose, you do not need to use special tools or additional mounting accessories. The mat is durable enough to support the weight of the person installing underfloor heating.

Attention

The underfloor heating loop should be guided in the bifilar system (cochlea). Each of these loops has two turns of the pipe through 180°. For safety reasons, it is recommended to additionally secure this arc with an assembly hook before making a self-leveling screed, thus preventing the pipe from falling out of the holder before the screed becomes bound.



Important

The routes and spacing of the pipes, the number and length of the underfloor heating loops as well as the flow settings should result from the calculations included in the underfloor heating design. After performing the necessary leak test on the installation, perform a self-leveling screed.

Screed

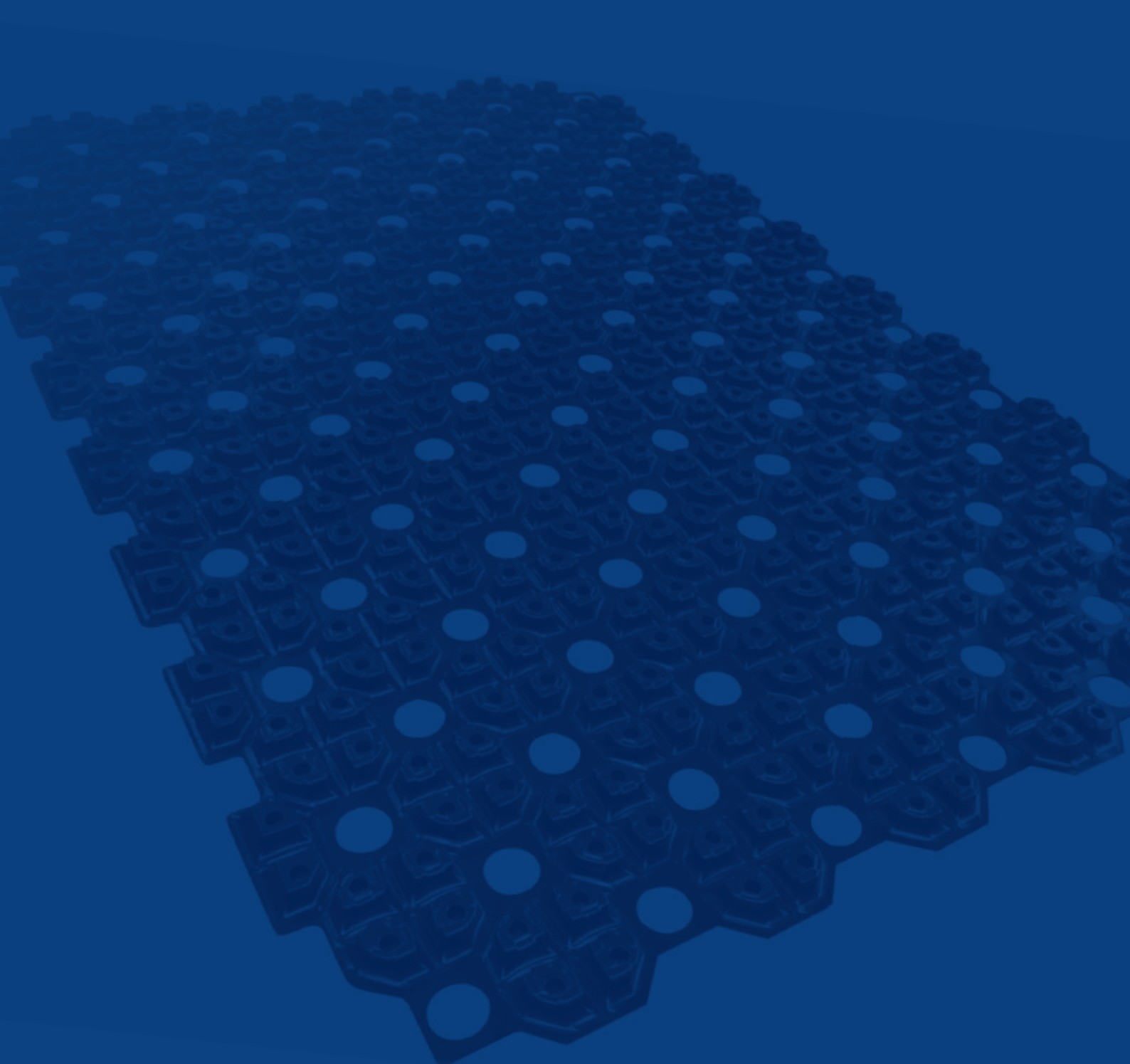
The base for the screed must be properly primed and sealed. The holes in the CASTMAT16 allow the material to penetrate in the mineral substrate and bond with it, creating a monolithic whole, which makes it possible to make a 3 cm thick screed without the risk of cracks occurring after drying. Flows of the compound into the gaps or cavities may result in the formation of depressions on the surface of the underlay. *(To avoid defects on the surface of the screed, follow the recommendations of the manufacturer of the self-leveling compound.)*

After full hardening and drying in accordance with the manufacturer's documentation, the screed annealing process should be carried out. The level of moisture in the underlay allows the floor to be finished in accordance with the documentation of the screed manufacturer.

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CASTMAT-16



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We care to connect

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