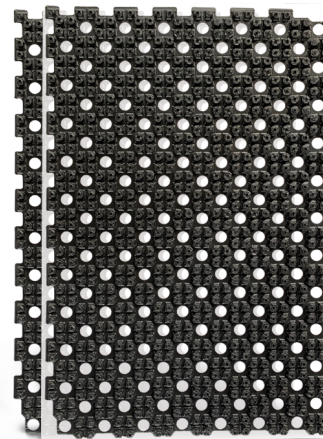


## Lowtop Castellated Mat (Adhesive)

Thermoformed and perforated mat for low-profile underfloor heating with the usage of special underlays. This mat allows assembly of a wet-built floor covering up to 3cm high.

Our lowtop mat is dedicated to renovated buildings and other buildings where the technical conditions make it impossible to perform underfloor heating in a traditional form.



Product Code	Product Description	Dimensions
TIOCAS0002	Lowtop castellated mat with adhesive	1130 x 730 x 16mm

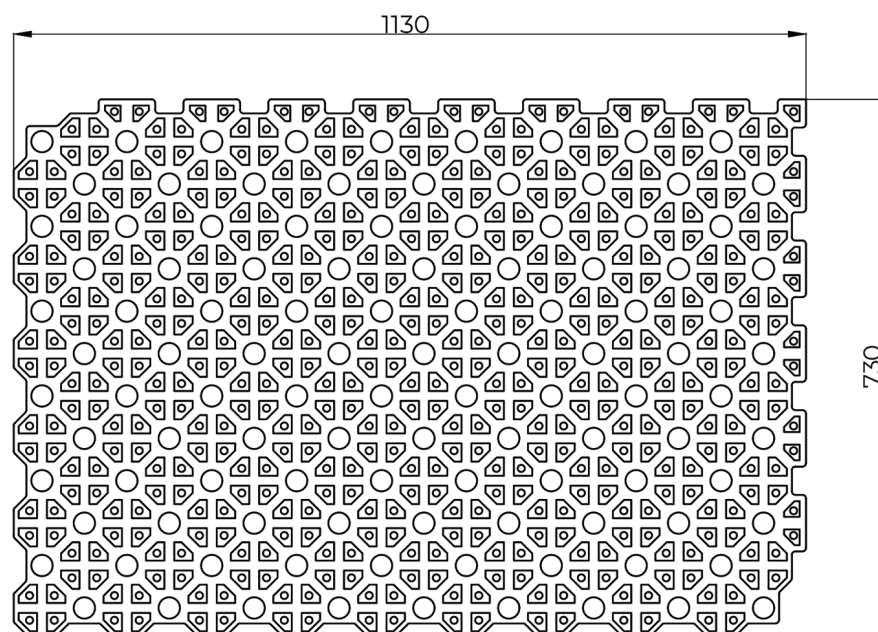
The mat is intended for use on mineral substrates in renovated rooms. These can be cement concrete substrates, anhydrite screeds or existing ceramic floors. Depending on the type of substrate, an appropriate primer should be selected.

### Recommendations:

For absorbent substrates - Baunit Grund

For non-absorbent substrates Baunit SuperPrimer

- Mat size (length x width): 1130 mm x 730 x 16mm
- Effective panel size (length x width): 1115 mm x 715 mm
- Effective area: 0.79m<sup>2</sup>
- Tab height: 16 mm
- Mat thickness: 1 mm
- Permissible size of heating pipes: 12 mm
- Pipe spacing: 5 cm, 10cm, 15 cm, 20 cm (multiple of 5)
- Underfloor heating construction system according to DIN 18560-2: A



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.

### IMPORTANT

The routes and spacing of the pipes, the number and length of the under-floor heating loops as well as the flow settings should result from the calculations included in the underfloor heating design.

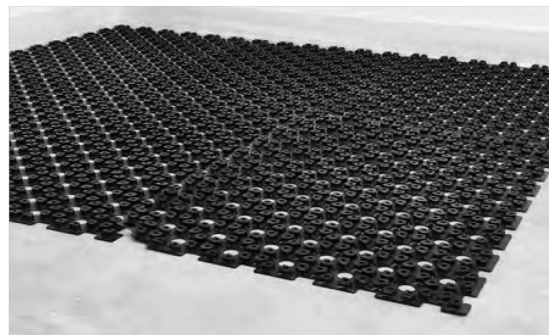
After performing the necessary leak test on the installation, perform a self-leveling screed.

LOWTOP mat 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.

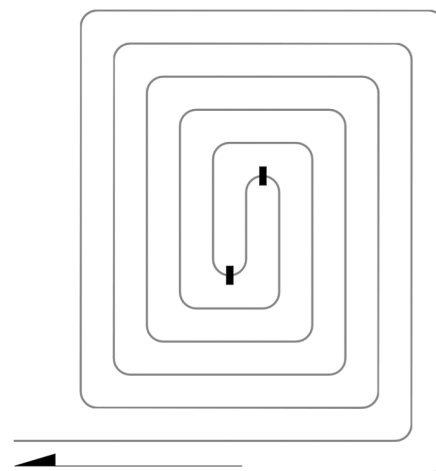
The pipe should be anchored between the tabs in LOWTOP mats and led parallel or diagonally to the mat edge. For this purpose, you do not need to use special tools or additional mounting accessories. The mat is durable enough to support the weight of the person installing underfloor heating.

#### 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°C. 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.



Installation of LOWTOP mats.

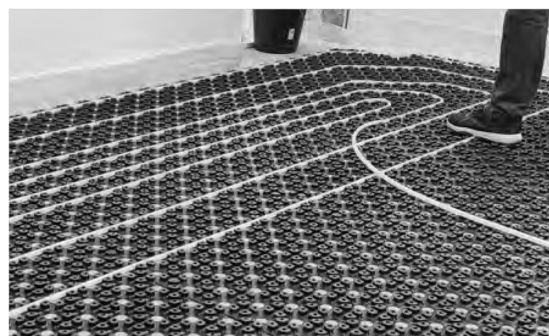


Underfloor heating installation with usage of LOWTOP castellated mat.

#### Screed

The base for the screed must be properly primed and sealed. The holes in the LOWTOP mats allow the material to penetrate into the mineral substrate and bond with it, creating a monolithic whole, which makes it possible to make a 3cm 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 - in order to avoid defects on the surface of the screed, follow the recommendations of the manufacturer of the self-levelling 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.



Fastening underfloor heating pipe in LOWTOP castellated mat.



Flooding the underfloor heating system self-leveling mass.