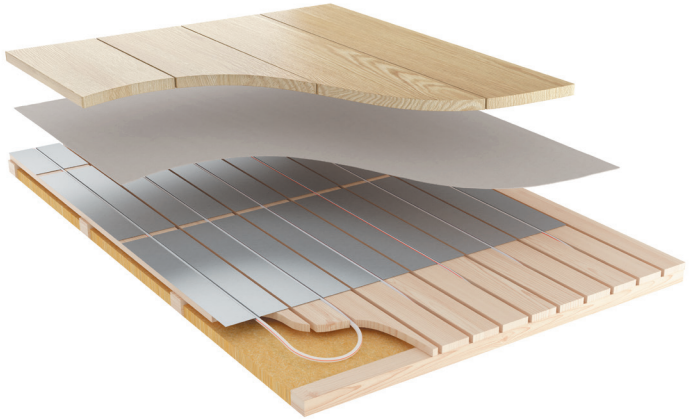
Wooden beam layer with Roth QuickTemp heat emission plates on formwork

Roth QuickTemp heat emission plates for formwork are specially designed so that the floor heating system does not increase the building height compared to a normal floor construction.
The heat emission plates for formwork are supplied for 16 and 20 mm underfloor heating pipes.

The heat emission plates are mounted on the formwork which is attached to joists or the beam layer. The distance between the formwork boards must be approx. 19 mm for 16 mm pipe, and approx. 23 mm for 20 mm pipe. The center distance between the pipes must be 300 mm. The heat emission plates have longitudinal grooves where Roth X-PERT S5® or Roth Alu-LaserPlus® are pressed into and thus fixed. The tracks of the plates are shaped so that the pipe is locked and acts as a “pipe holder”.



Technical data

Roth QuickTemp heat emission plate for 16 mm pipe	HVAC No. 7339217216
Material:	0.7 mm aluminum plate
Length:	1.200 mm
Bredde:	260 mm
Material consumption:	2.7 pcs/m²
Pipe consumption:	approx. 3.3 m/m²
Dividing instruction:	for every 200, 400, and 600 mm

Roth QuickTemp heat emission plate for 20 mm pipe	HVAC No. 7339217020
Material:	0.5 mm aluminum plate
Length:	1.200 mm
Width:	260 mm
Material consumption:	2.7 pcs/m²
Pipe consumption:	approx. 3.3 m/m²
Dividing instruction:	for every 200, 400, and 600 mm

Accessories

Roth heating pipe X-PERT S5® 16 mm á 90 m	HVAC No. 7087207216
Roth heating pipe X-PERT S5® 16 mm á 200 m	HVAC No. 7087207235
Roth heating pipe X-PERT S5® 16 mm á 650 m	HVAC No. 7087207237
Roth Alu-LaserPlus® pipe 16 mm á 100 m	HVAC No. 7087100216
Roth Alu-LaserPlus® pipe 16 mm á 240 m	HVAC No. 7087100246
Roth Alu-LaserPlus® pipe 16 mm á 500 m	HVAC No.7087100276
Roth heating pipe X-PERT S5® 20 mm á 120 m	HVAC No. 7087207220
Roth heating pipe X-PERT S5® 20 mm á 240 m	HVAC No.7087207240
Roth heating pipe X-PERT S5® 20 mm á 600 m	HVAC No. 7087207249
Roth Alu-LaserPlus® pipe 20 mm á 100 m	HVAC No. 7087100220
Roth Alu-LaserPlus® pipe 20 mm á 240 m	HVAC No. 7087100250

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Installation instructions

1. The formwork of suitable thickness is fixed with 2 nails in each beam or joists. The formwork must have a suitable thickness to the desired top floor used.
The first formwork board is laid 50 mm from the outer wall and are then laid with a gap distance of 19 mm (for 16 mm pipe) or 23 mm (for 20 mm pipe).
To ease the laying of the pipes at the turns, the wodden boards are not attached to the last joist/beam before the pipes are layed.

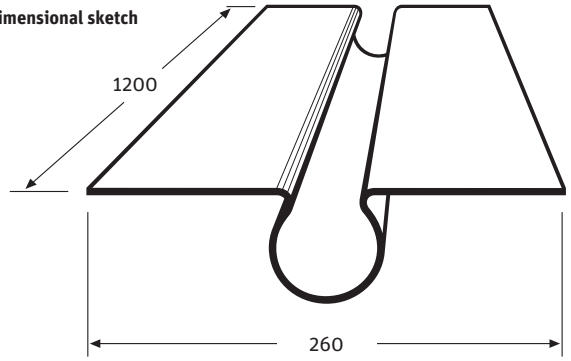
2. The laying of the heat emission plates can then begin. The boards are pressed down into the gaps between the formwork boards and must be laid with a distance of approx. 20 mm, possibly shifted to the plates next to it.

3. Before laying the pipes, make sure that the tracks are completely clean and free of dirt. Lay the pipes according to Roth's recommended laying pattern.
At the ends, the pipe is bent 180 degrees and passed under the formwork and then back into the next track.
The pipes must lie all the way down in the tracks and must not lie above the upper edge of the plates. Where the pipes are bent, it must be ensured that the pipes can expand.

4. The last pipe end is attached to the distribution pipe and the pipe is ready for pressure testing and adjustment. The floor heating installation is now ready for the top floor. Before the top floor is laid according to the floor manufacturer's instructions, a floor board, foam or similar must be laid.
The top floor should not be thicker than 28 mm. Carpets, vinyl etc. requires an intermediate floor of min. 18 mm chipboard or similar.

We reserve the right to make design changes without prior notice announcement.

Dimensional sketch



Installation tips

The underfloor heating pipes expand when exposed to heat, and this can cause noise nuisance if the pipe comes into contact with the wooden structure. It may therefore be a good idea to test-run the system with hot water before laying the subfloor. This way, you can check whether the pipes make contact with the wooden structure during expansion.

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