GRUEN

Thermo Direct Heating Panel

Thin, warm, no screed

Grooved PU panels with aluminium heat spreaders. Tile goes directly on top; no screed, no waiting.



TECHNOLOGY PATENTED TECHNOLOGY

LAYERS

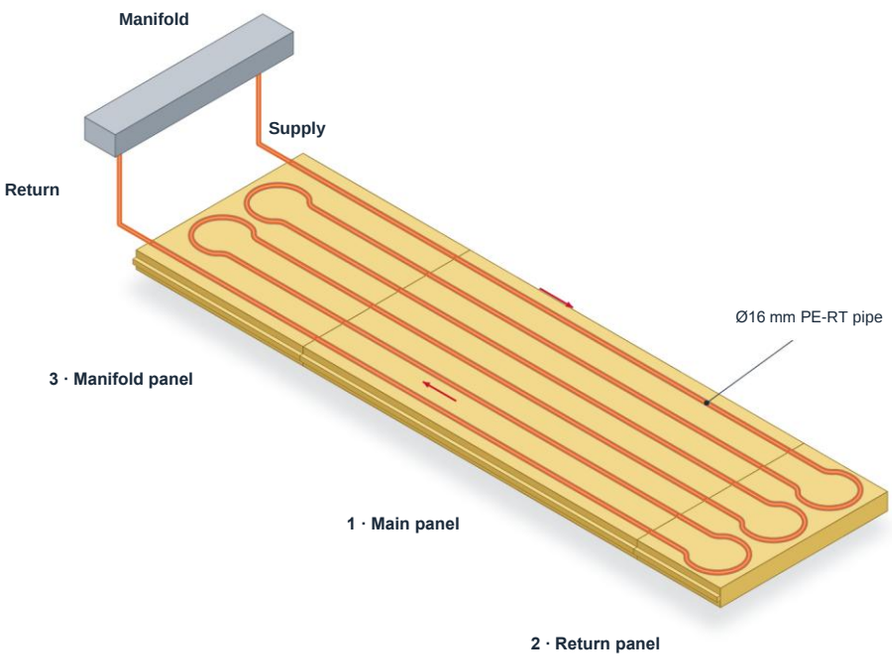
1. Porcelain tile · 10 mm
2. Levelling layer, mesh · 5 mm
3. Ø16 mm pipe
4. Aluminium heat spreader
5. Grooved PU panel · 60 mm
6. Concrete slab

Low-profile underfloor heating for bathrooms, no screed

Grooved PU panel;
no screed needed, tile directly on top.

Thermo Direct Heating Panel

PANEL MODEL	SIZE (CM)	ITEM NO.	PRICE €/PC
Main panel	120 × 60 × 6	TDA.1.120.60.6	Price on request
Return panel	30 × 60 × 6	TDK.1.30.60.6	Price on request
Manifold panel	60 × 60 × 6	TDD.1.60.60.6	Price on request

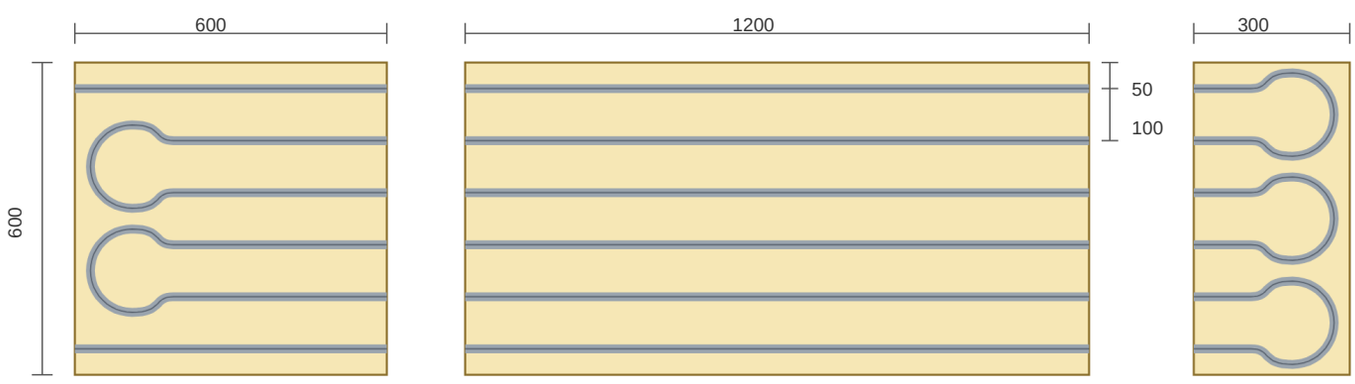


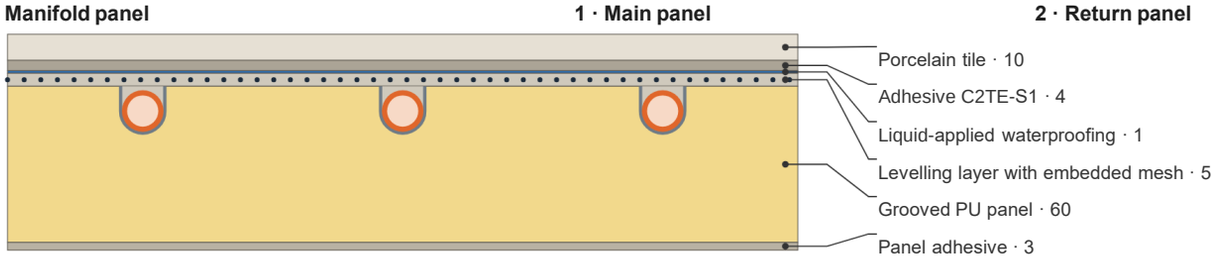
System components

Grooved PU main panel
Ω-grooved return panel
Manifold panel
Aluminium heat spreader
Perimeter insulation strip (10 mm)
AR glass-fibre mesh (160 g/m²)

Groove spacing 100 mm · Pipe Ø16 mm PE-RT · Compressive strength ≥ 300 kPa* · Under tile ≈ 10 mm · Total ≈ 83 mm

Technical drawing Dimensions in mm





Section · Total ≈ 83 mm · Cover above pipe ≈ 21 mm