

Our easy panel system works by pumping controlled flows of warm water through small diameter plastic tubing, which can be fed from solar, biomass or heat pump sources.



Thermogroupuk

SUSTAINABLE HEATING SOLUTIONS



Thermotube easy panel heating system

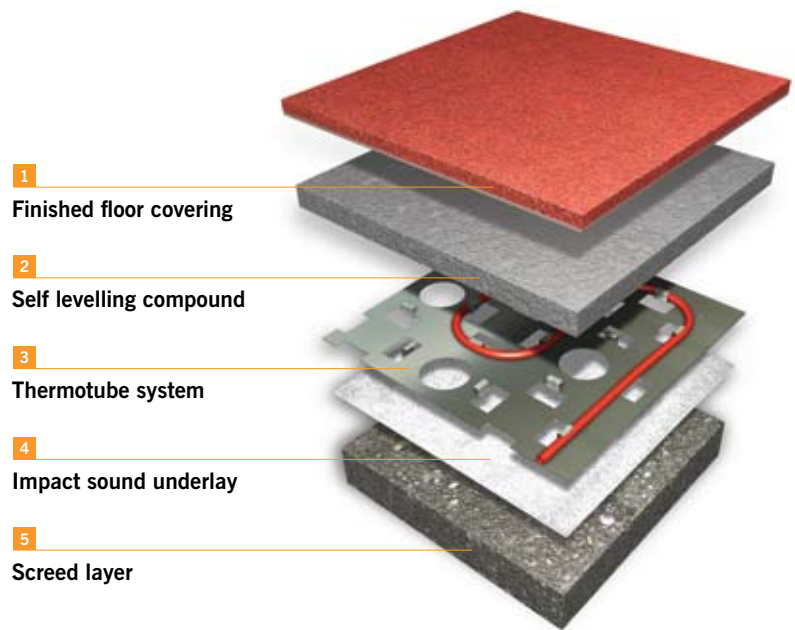
Based on its low height of approximately 15mm and the excellent heat conductivity of the steel panels, a highly energy efficient and heated screed floor, with a build height of 28mm is possible.

Comfortable room climate

The Thermogroup UK easy panel system is fitted as a floating floor above a load-bearing sub-floor and is ideally suited for the retrofit of old buildings due to its low height.

Oxygen impermeable heating pipe

The heating pipe (\varnothing 8mm) that is fixed to the steel panels, has an internal oxygen barrier and in this way minimises the corrodibility of the entire heating system. The oxygen permeability of the organic barrier (EVOH) is only approximately 0.02 g/m³d and therefore many times lower than required under DIN 4726. The heating pipes are connected to the facility by the well-proven Thermogroup UK manifolds with John-Guest push-fittings.



1
Finished floor covering

2
Self levelling compound

3
Thermotube system

4
Impact sound underlay

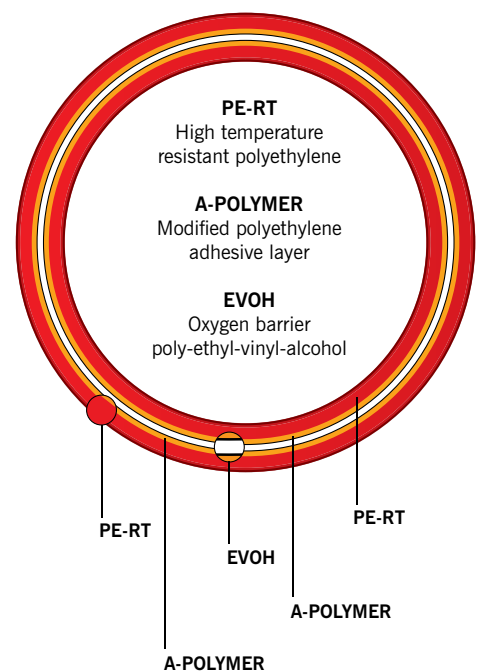
5
Screed layer

Data

	EASY PANEL	NOTES
Material	galvanised steel	basic material of the easy panels
Measurements	1180mm x 775mm x 15mm	customised production is possible
Installation height	from 28mm	for pipe \varnothing 8mm + 20mm of screed above pipe
Effective floor area	0.82 m ² per panel	without overlap
Weight per m ²	approximately 60kg/m ²	for pipe \varnothing 8mm + 20mm of screed above pipe
Heating pipe \varnothing	DN 08 - 12 possible	oxygen impermeable according to DIN 4726
Heat output	60 - 80 W/m ²	depending on the building situation
Load bearing capacity	up to 500 kg/m ²	avoid point loads at border areas



Thermotube			
STOCK NO	DESCRIPTION	SIZE	UNIT
1200	Easy panel, zinc plated	1180mm x 7754mm	(M ²)
1201	Impact sound underlay	50m x 1m	(M ²)
1202	Perimeter insulation foam	50m x 80mm	roll
1203	Thermotube	8mm x 40m	coil
1204	Thermotube	8mm x 200m	coil
1205	Thermotube	8mm x 600m	coil
1206	Thermotube copper inserts		10
1209	Single mini connection adaptor inc inserts	1/2" Female	EA
1210	Single mini connection adaptor inc inserts	1/2" Male	EA
1211	Double mini connection adaptor inc inserts	1/2" Female	EA
1212	Quad mini connection adaptor inc inserts	1/2" Female	EA
1213	Adaptor cone	3/4" x 1/2"	EA
1214	Pipe repair kit	8mm	EA
1220	Pipe protection cap		EA
1221	Manifold housing for larger area distribution	450 x 200 x 90	EA
1222	Connection box and thermostat complete (upto 16m ²)		EA



For more information about Thermotube please call our sales team on 08700 41 21 41

contact



Stock No 1211



Stock No 1209



Stock No 1210



Stock No 1212



Stock No 1213



Stock No 1206



Stock No 1221 Manifold Housing

Installation

Work out the size of the area to be heated in m². Easy panel sheets are 0.89m² each. Next use the following calculation to work out the total length of Thermotube you require.

$$\frac{\text{area to be heated (m}^2\text{)}}{0.115} = \text{length of pipe}$$

We recommend a max length of 35lm of pipe per circuit so:

$$\frac{\text{length of pipe (lm)}}{35} = \text{no of circuits}$$

Choose the appropriate adaptors to go with the connection box for the number of circuits you require.

Checklist

Basic system components for a standard installation comprise of the following:

- THERMOTUBE
- EASY PANEL SHEETS
- MANIFOLD HOUSING
- CONNECTION ADAPTORS
- IMPACT SOUND UNDERLAY

The easy panel system from **Thermogroup UK** is a reinforced floor system consisting of galvanised steel panels with arched brackets for the fixing of the heating pipe. **Ideal for retrofit in old buildings.** The easy panels are interconnected to each other, fitted with heating pipe and covered with a system approved screed with a depth of only 20mm above the pipe. It is also possible to cover the panels directly with Terrazzo.



Advantages at a glance

- EXTREMELY LOW BUILD UP FROM APPROXIMATELY 28MM INCLUDING SCREED
- FAST HEAT-UP WITH PIPE CLOSE TO SURFACE AND EXCELLENT CONDUCTIVITY OF SCREED
- HIGHLY ENERGY EFFICIENT THROUGH LOW FLOW TEMPERATURES
- IDEALLY SUITED FOR THE USE OF RENEWABLE ENERGIES EG HEAT PUMPS
- LOW WEIGHT FROM APPROXIMATELY 50KG/M² INCLUDING SCREED
- FAST AND EASY INSTALLATION WITHOUT SPECIAL TOOLS
- SECURE PUSH FIT CONNECTIONS
- MANIFOLD TESTED TO 10 BAR





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At Thermogroup UK we are constantly striving to package everything in recycled, degradable and recyclable materials to reduce our environmental impact. This brochure has been printed using soya based inks on paper which is elemental chlorine free, and manufactured using pulp from sustainable forests.



E&OE



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