



TIMÓLEON DATA SHEET TI1003 - CLIPPLATE

ClipPlate-11 System for Concrete & Screeded Floor Constructions

INTRODUCTION

The ClipPlate-11 system has been purposely designed to avoid using fixings and staples in the floor and to speed up the installation of underfloor heating systems.

ClipPlates are a series of interlocking sheets with an integrated 10mm expanded polystyrene insulation layer. The castellations in the panel provide grip for the pipe, whilst also providing protection from site traffic and the screed being laid.

ClipPlates can be installed over any subfloor. Where floor build-up is limited the integrated 10mm EPS provides some resistance when the product is laid over an un-insulated floor. The panel is designed to allow pipes to be installed at spacings as close as 50mm and at 45° & 90° bends, providing additional flexibility.

INSTALLATION

- 1 Around the perimeter of the room lay 8mm expansion foam against the wall with the gaiter coming into the room.
- 2 Lay the interlocking plates covering the entire floor ensuring the gaiter of the expansion foam is sitting on the plate.
- 3 Starting at the manifold, lay the pipe into the ClipPlate at the correct centres according to the design.
- 4 Pressure test prior to screed being laid.
5. Keep the pipework under pressure while the screed is laid.

Note : Please refer to installation guides for full installation details

SPECIFICATION

Timoleon ClipPlate-11 system using 16mm PE-RT pipe inserted into 1m x 1m ClipPlates with 10mm pre-bonded EPS. Expansion foam to be installed around the perimeter of the room. The system to be designed, installed and commissioned to BS1264.

TECHNICAL INFORMATION

Pipe – 16mm PE-RT pipe with EVOH oxygen barrier.

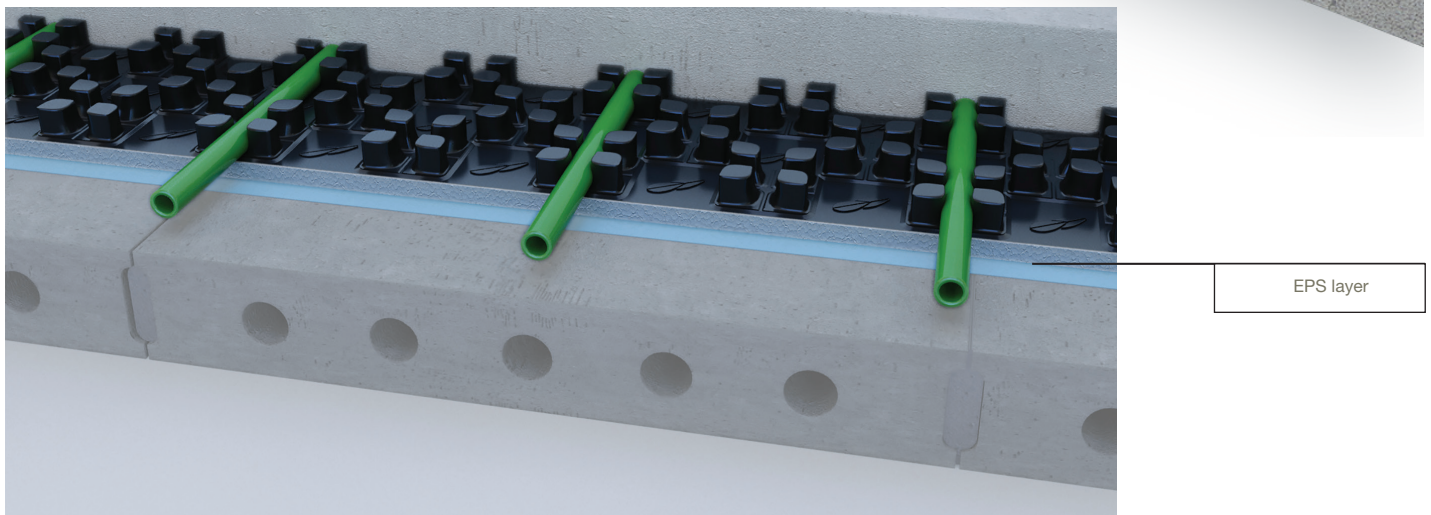
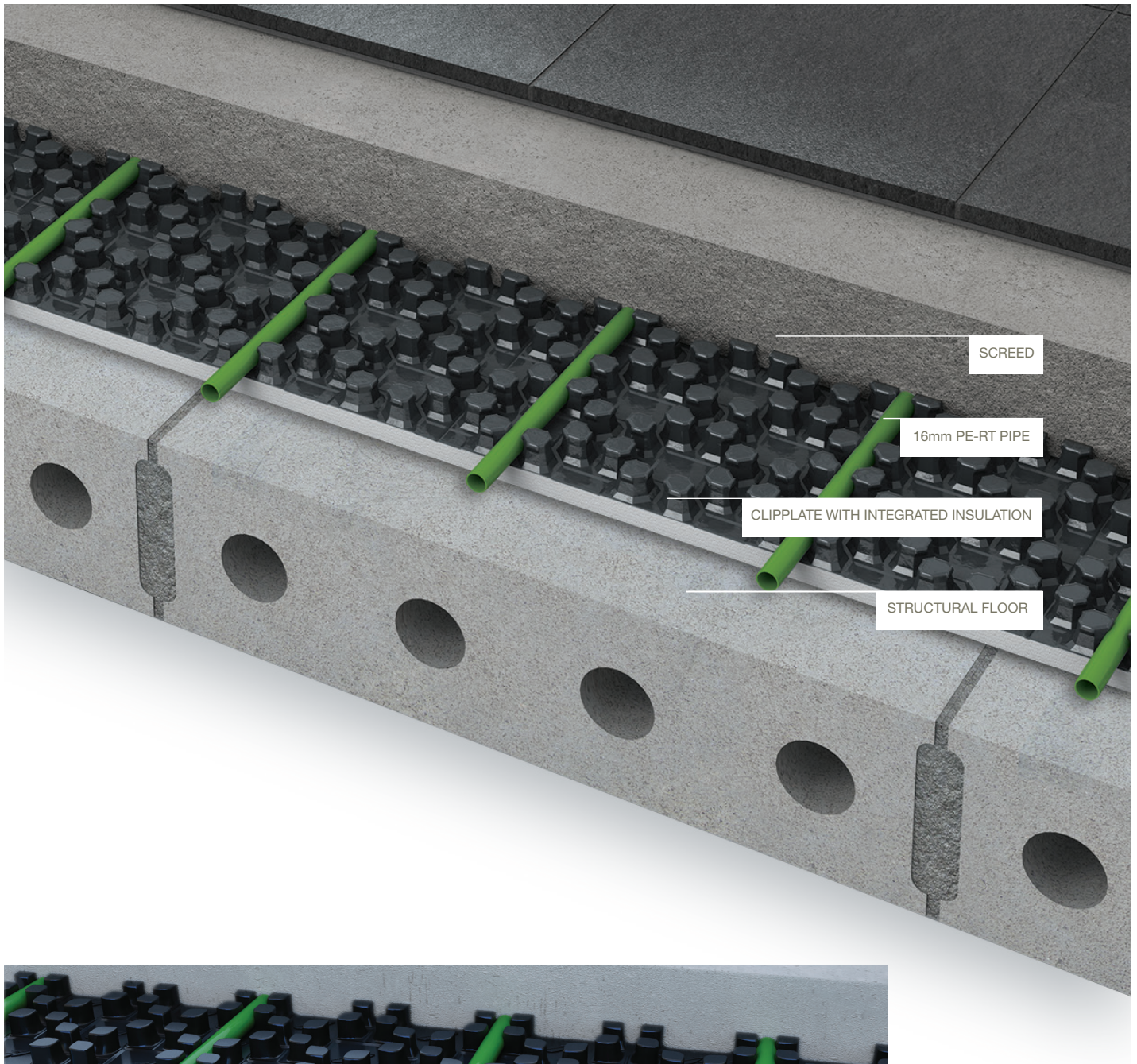
ClipPlates – 29mm thick (including 10mm EPS pre-bonded insulation – $K=0.038$ W/mK).

Heat outputs are dependent on the water temperature, floor construction, system dimensioning, floor finish & design conditions. Please call 01392 363605 for advice.

Heat Output Table (W/m ²)		Flow & return water temperature (°C)		
		50/40	45/35	40/30
Floor Finish	Tile Finish (0.01m ² K/W)	118	94	69
	15mm Wood Finish (0.1m ² K/W)	83	66	48
	Carpet & Underlay (0.15 m ² K/W)	70	55	41

Based on 16mm PE-RT pipe at 150mm centres with 65mm sand/cement screed laid over. 0.15 m²K/W = 1.5 TOG.
Air Temperature = 20°C

TIMÓLEON DATA SHEET TI1003 - CLIPPLATE SYSTEM



? Call the project team on
01392 363605

timoleon