



TIMÓLEON DATA SHEET TI1001 - STAPLES

Staple system for Concrete & Screeded Floor Constructions

INTRODUCTION

The staple system provides a quick, flexible and simple method of installing underfloor heating into a screeded floor.

The pipe is easily fixed to the insulation using staples. The barbs on each staple fix into the insulation and hold the pipe in place. The Timoleon Gridded insulation has a laminated foil surface that provides an even stronger fix than plain insulation alone. The foil also provides a convenient grid guide that can easily help with the layout of the piping system. To speed up the process further a Pipe Stapler is available, making installation even easier and faster.

INSTALLATION

1. Around the perimeter of the room lay 8mm expansion foam against the wall with the gaiter coming into the centre of the room.
2. Lay the Gridded Insulation (or plain insulation and polythene sheet if not using Gridded Insulation), covering the entire floor ensuring the gaiter of the expansion foam is sitting on the Insulation.
3. Lay the pipe to and from the manifold on the grid at the appropriate centres fixing with staples (by hand or using a Pipe Stapler).
4. Pressure test prior to the screed being laid. Keep under pressure whilst screed is being laid.

Note : Please refer to installation guides for full installation details

SPECIFICATION

Timoleon Staple system using 16mm PE-RT pipe fixed using staples to Timoleon Gridded Insulation. The Gridded Insulation having a laminated film to aid the fixing of staples. Expansion foam to be installed to 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.

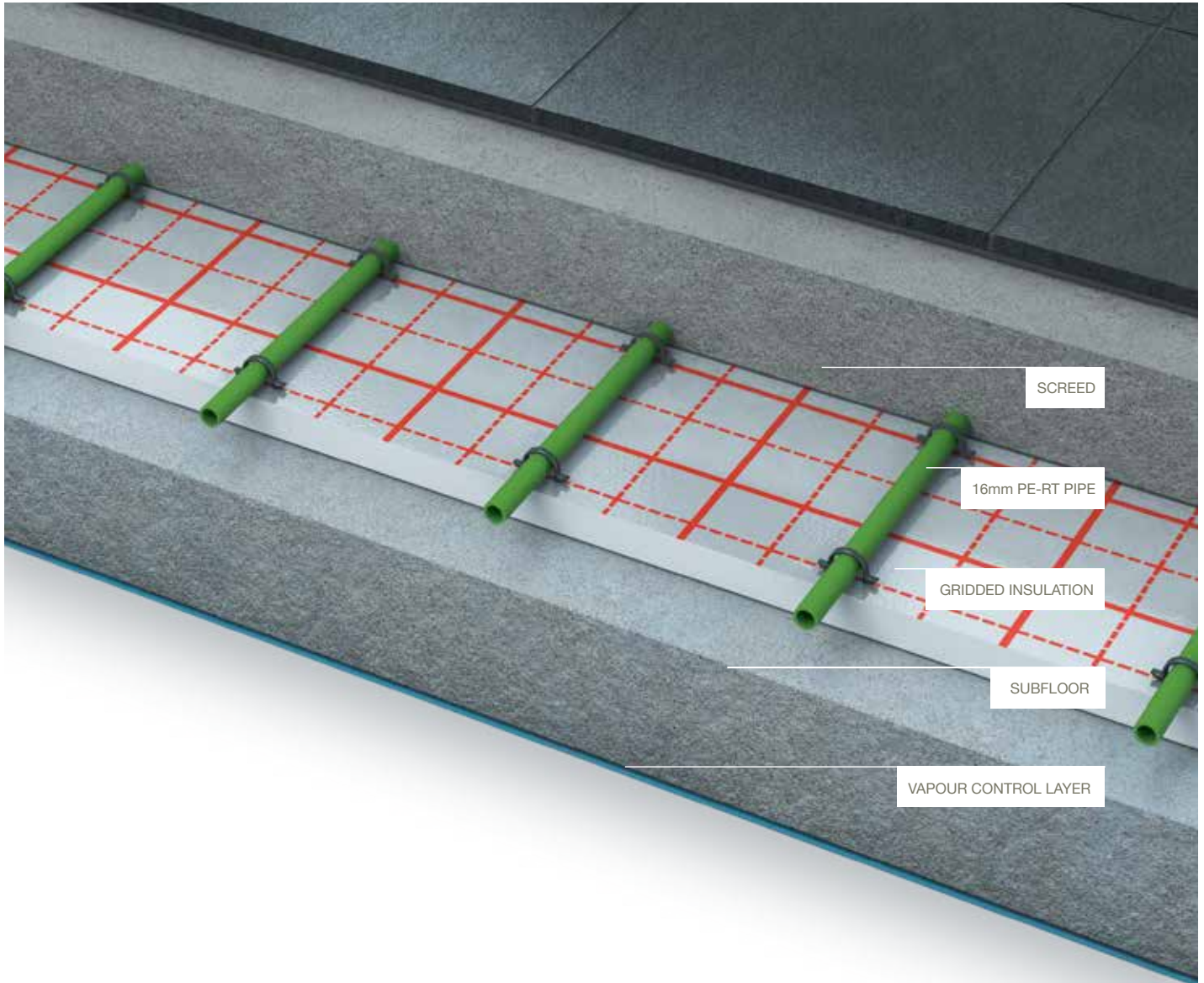
Gridded Insulation – 25mm thick SDN expanded polystyrene ($K=0.038$ W/mK) laminated to provide increased fixing.

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

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? Call the project team on
01392 363605

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