



TIMÓLEON DATA SHEET TI1004 - FOILBOARD BATTEN

FoilBoard System for Battened Floor Constructions

INTRODUCTION

Our FoilBoard system can be laid between timber battens. The FoilBoard panels are manufactured from XPS insulation with pre-bonded soft temper aluminium. As no thick rigid plates are used the panels can be easily trimmed on site.

The panels are designed so that when a floor deck is laid over and fixed to the battens it will be in direct contact with the heat diffuser, ensuring good thermal transfer. The nature of the FoilBoard panel to transfer heat efficiently increases performance by over 30% compared to systems that do not use heat diffusers.

The standard product is available in thicknesses from 25mm to 75mm and for a variety of batten centres. However, FoilBoard can be manufactured to a specification to suit your construction.

INSTALLATION

1. Lay 50mm battens at 400mm centres and to best practice.
2. Between each batten lay the FoilBoard loop panels at each end of the run.
3. Lay FoilBoard straight panels between the loop panels, trimming where necessary.
4. Notch the batten wherever the pipe will cross.
5. Starting at the manifold, lay the pipe into the FoilBoard according to the design.
6. Pressure test prior to laying the floor deck and finish. Keep under pressure.

Note : Please refer to installation guides for full installation details

SPECIFICATION

Timoleon Foilboard Batten system using 16mm PE-RT pipe installed into FoilBoard panels comprising of 50mm XPS with pre-bonded heat diffusers to be installed between 50x50mm battens at 400mm centres. Floor Deck to be laid and fixed over. The system to be designed, installed and commissioned to BS1264.

TECHNICAL INFORMATION

Pipe – 16mm PE-RT Pipe

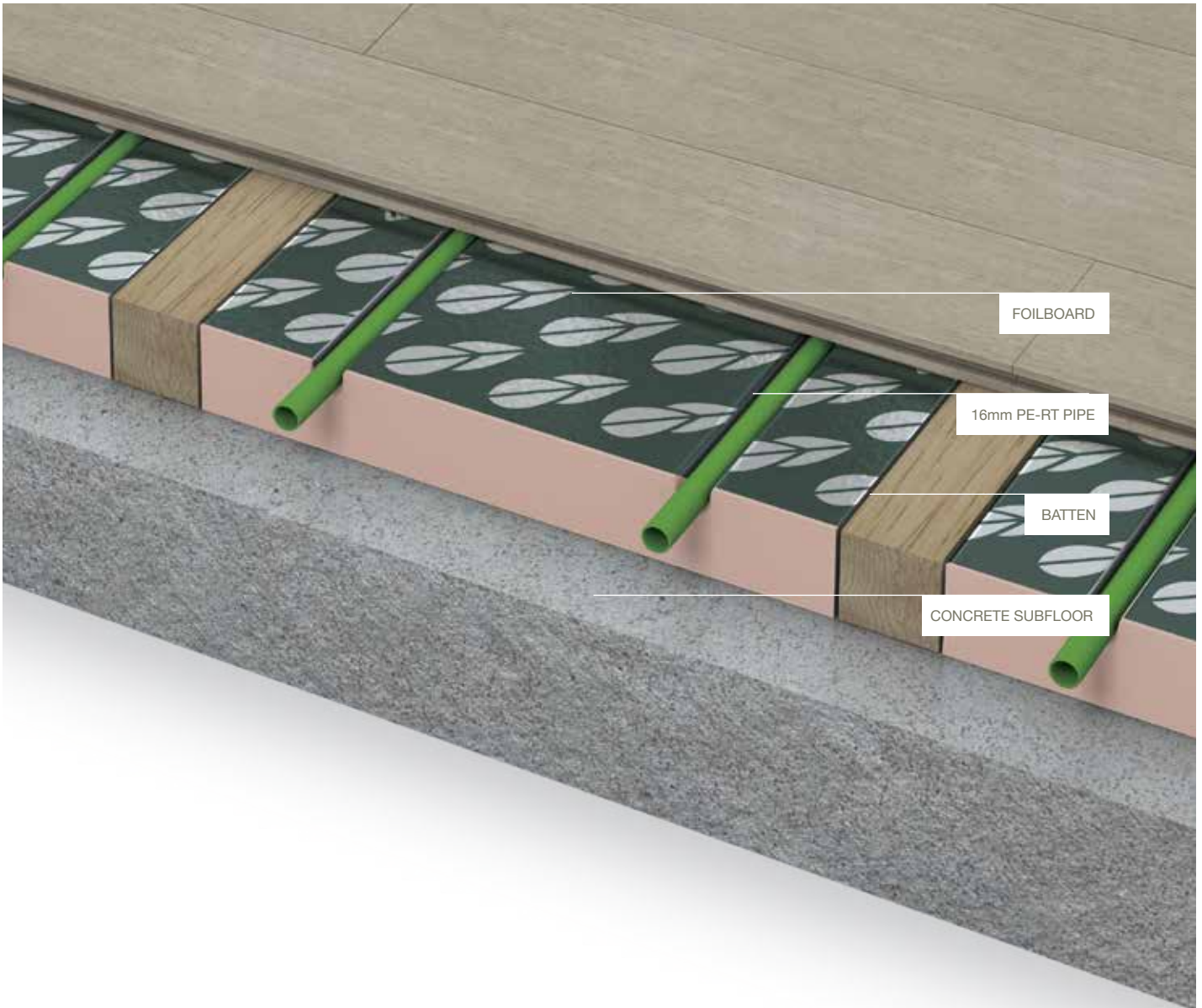
Foilboard Batten Panel – XPS polystyrene panel with pre-bonded soft temper aluminium ($k=0.033W/mK$).

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)	46	37	27
	15mm Wood Finish (0.1m ² K/W)	41	33	24
	Carpet & Underlay (0.15 m ² K/W)	37	29	22

Based on 16mm PE-RT pipe at 200mm centres using standard product (**high performance configurations available**) with 18mm chipboard laid over (plus 10mm ply for tiles). 0.15 m²K/W = 1.5 TOG. Air Temperature = 20°C

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 Call the project team on
01392 363605

The logo for timoleon, featuring the word 'timoleon' in a lowercase, sans-serif font. A stylized leaf icon is positioned above the letter 'o'.