



TIMÓLEON DATA SHEET TI1011 - TORONFLOOR SYSTEM

ToronFloor System for Suspended Floor Constructions

INTRODUCTION

The ToronFloor system is a low build up structural underfloor heating system designed to work well with heat pumps. The panels have the pipe as close to the floor finish as possible. This maximises the heat output of the panels whilst minimising the temperature of the water being used.

The system replaces the chipboard or plywood floor deck used in the construction, the panels having pre-routed channels to accept the continuous pipe.

The Toron panels are laid on the joists according to the Timoleon design, the pipe is then installed into the channels with the ends of each circuit dropping into the joist space to be connected to a common flow and return. Once installed an aluminium strip is applied to further improve performance and provide a method for detecting the pipe. A 6mm covering ply completes the floor.

INSTALLATION

1. Lay the Toron plywood or chipboard panels according to the design, starting from the corner of the room.
2. All tongues and grooves must be fully glued and the panels screwed to the top of the joists.
3. Starting at the manifold install the pipe into the channels, following the drawing.
4. Run the pipe into the joist space where the circuits are to be connected to a common flow and return.
5. Notch the joist wherever the pipe will cross and where regulations permit.
6. Pressure test prior to laying floor deck and finish.
7. Use 6mm ply or equivalent to cover the panels. Keep the system under pressure until the covering ply or flooring has been installed.

Note : Please refer to installation guides for full installation details

SPECIFICATION

Timoleon ToronFloor system with 22mm moisture resistant plywood or chipboard routed to accept 12mm PE-RT to BS7291. The Toron flooring panels laid over the joists at 400mm centres and with a 6mm ply or equivalent laid over. The system to be designed, installed and commissioned to BS1264.

TECHNICAL INFORMATION

Pipe – 12mm EVOH oxygen barrier PE-RT pipe.

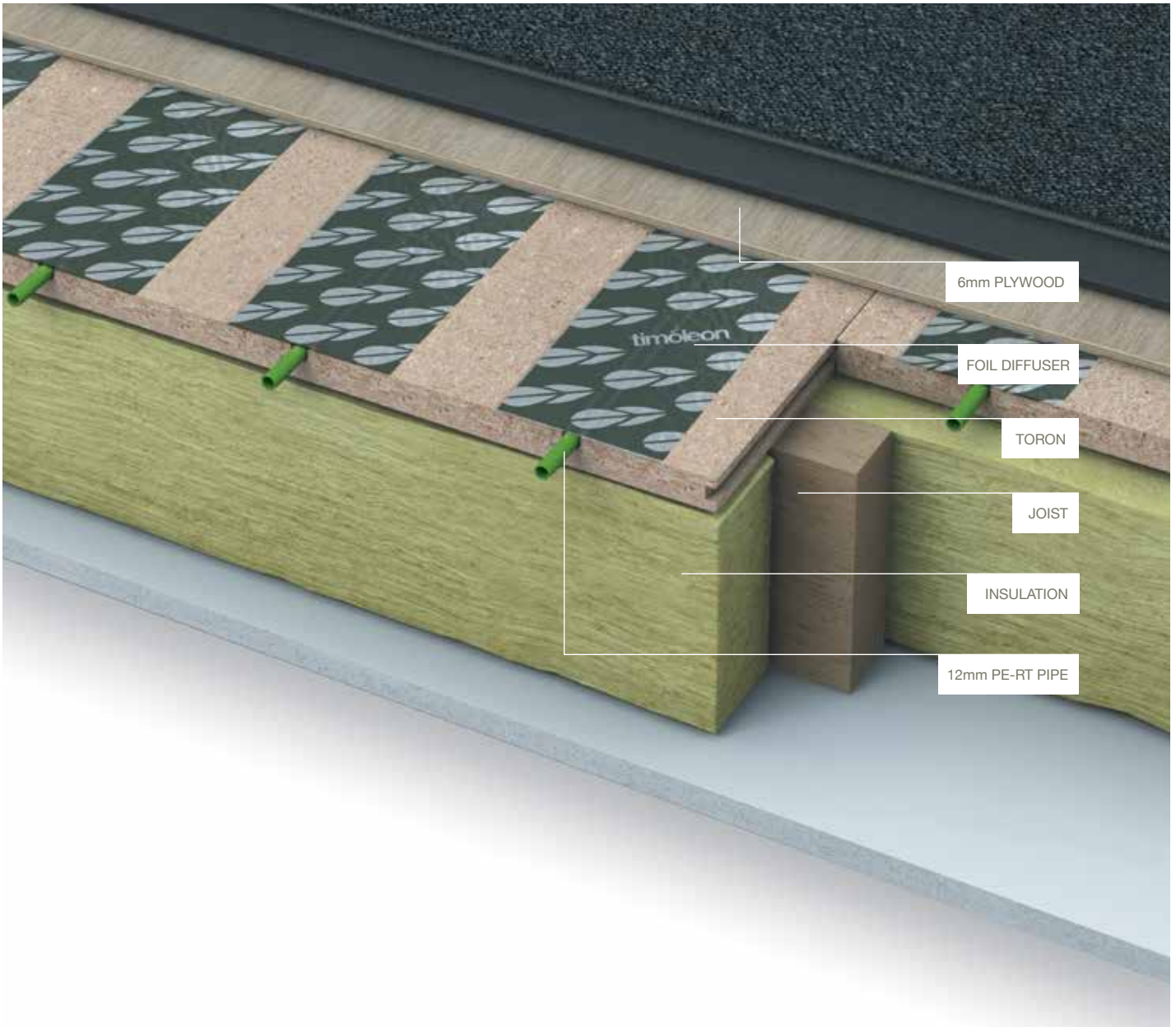
Panel – 22mm tongue and groove Plywood or Chipboard panel (2400mmx600mm) moisture resistant.

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)	67	54	40
	15mm Wood Finish (0.1m ² K/W)	59	47	35
	Carpet & Underlay (0.15 m ² K/W)	56	45	33

Heat output based on standard product with high-output aluminium foil and 6mm ply installed over.

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? Call the project team on
01392 363605

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