

INTRODUCTION

The FoilBoard system provides assured performance in timber suspended floors between joists at 400mm. The panels are manufactured from 18mm of extruded polystyrene insulation (XPS) with a 6mm pre-bonded high-density wood layer and pre-bonded soft temper aluminium. As no thick rigid plates are used the panels can be easily trimmed on site. The FoilBoard panels are laid between joists and supported by battens or "L" shaped brackets. This ensures that the system is in direct contact with the floor deck, maximising the transfer of heat from pipe to the deck. Once the panels are in place the pipe is pressed into the channels piercing the foil diffuser, and is fitted into notches in the joists to pass from one joist space to the next.



SPECIFICATION

OMNIE FoilBoard system using universal panels comprising of 18mm extruded polystyrene insulation (XPS) with a 6mm of pre-bonded high-density wood layer and pre-bonded heat diffusers to be installed between joists at 400mm PE-RT pipe to DIN 4726 of 12mm (133mm centres pipe) to be inserted into the pre-routed grooves. Floor deck to be laid and fixed over. The system to be designed, installed and commissioned to BS1264.

LAYFAST – Speed up installation time. This product uses our multi-directional pipe channel system.

For more information see DS UFH 22

DRYSYSTEM – No wet trades required, designed for dry constructions.

For more information see DS UFH 24



TECHNICAL DETAILS

Foilboard Panel
18mm extruded polystyrene insulation (XPS) with a 6mm of pre-bonded high-density wood layer and pre-bonded soft temper aluminium (k=0.033W/mK)

Panel thickness
24mm

Compressive Strength
300 kPa

Thermal Conductivity
0.034 W/mK

Panel Dimensions
Joists at 400mm centres - 1200 x 340 x 24mm

Weight with Water
1.5 kg/m² (50mm)

Pipe Centres and Pipe
133mm & - 12mm PE-RT to DIN 4726

Heat Output
Heat outputs are dependent on the water temperature, floor construction, system dimensions, floor finish & design conditions. Please call 01392 36 36 05 to discuss your specific requirements.

As a guide the heat outputs below are based on 12mm PE-RT pipe at 133mm centres with 18mm chipboard laid under 15mm wood, carpet and underlay, and tiles. Air Temperature = 20°C. (0.15 m²K/W = 1.5 TOG).

Floor Finish	55/48 (°C)	50/43 (°C)	45/38 (°C)	40/33 (°C)
18mm chipboard deck with Tile Finish (0.01m ² K/W)	85 W/m ²	72 W/m ²	58 W/m ²	44 W/m ²
18mm chipboard deck with 15mm Wood Finish (0.1m ² K/W)	68 W/m ²	57 W/m ²	46 W/m ²	35 W/m ²
18mm Direct Structural Wood Finish (0.13m ² K/W)	92 W/m ²	77 W/m ²	63 W/m ²	48 W/m ²
18mm chipboard deck with Carpet & Underlay (0.15 m ² K/W)	62 W/m ²	52 W/m ²	42 W/m ²	32 W/m ²