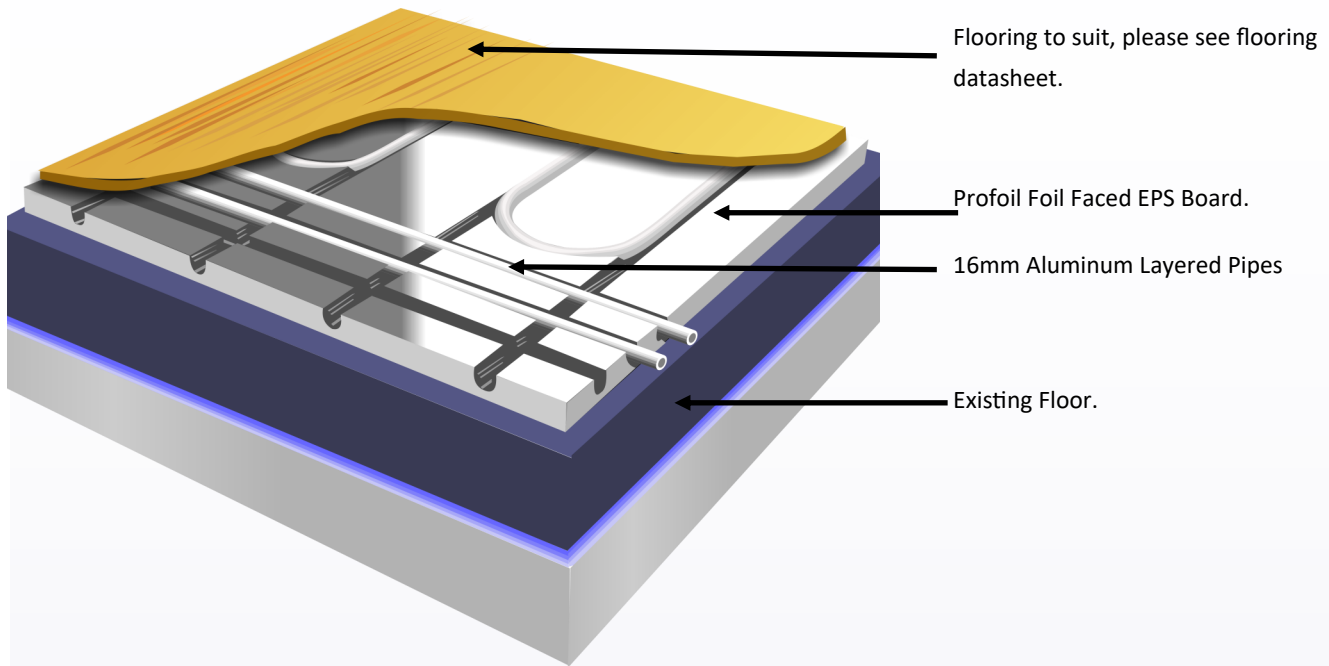


# UNDERFLOOR HEATING FLOOR CONSTRUCTIONS PROFOIL

DESIGN | SUPPLY | INSTALL | SUPPORT | TRAIN

## Foil Faced EPS Floating Floor System:



### Overview

An underfloor heating floor construction typically used to retrofit underfloor heating in domestic properties.

It is designed to be retrofitted to existing floors, making it suitable for both new builds and retrofit where an increase in floor height can be accommodated

Due to low heat outputs for any given flow temperature, this floor construction needs careful consideration when using heat sources that are sensitive to flow temperature, such as ground and air sourced heat pumps.

### Insulation

Where required, Insulation levels must meet or exceed the requirements of part L of the building regulations, typically 30mm for intermediate floors and 100mm for ground floors. Additional insulation such as Celotex or Kingspan may be required underneath the EPS (Expanded Polystyrene).

### Screed

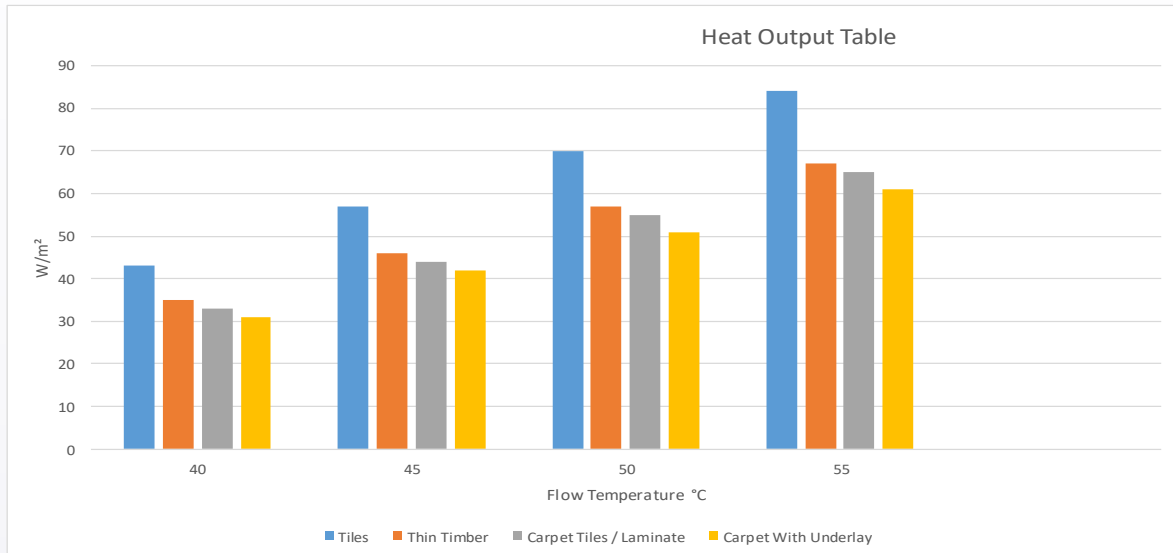
No screed is used on this system.

### Floor Coverings

Most floor coverings can be used, please see our floor covering data sheet for more information.

## Options

To suit different heat sources or heat losses, it is possible to change the distance between the pipes. There is limited options for this as the panels are supplied with fixed pipe centers. Fitting the pipes



closer together allows for greater outputs for a given flow temperature, or a reduction in flow temperature for a given output.

This is important for heat sources where the efficiency is effected by flow temperature such as heat pumps or overcoming areas with high heat loads such as older buildings or conservatories.

Heat outputs are shown for pipes laid at 150mm centers, with an air temperature of 20°C, less concentrated pipe would have the effect of lowering these figures.

## Options

Our preference is for a 16mm pipe which contains a layer of Aluminum, the advantage of which is the pipe stays in the shape which the installer forms. An alternative is to use a 15mm pipe without the Aluminum layer which some installers prefer.

## Control Options:

We offer a full range of controls, from a simple Night Set Back (NSB) dial thermostat to full Wi-Fi controlled systems. These include:

### Rotary Dial NSB

The simple Rotary Dial NSB thermostat offers simple performance, allowing the use of Night Set Back, which itself offers increase efficiency and comfort than an on / off system. A centralized timer is used to provide user selectable timing from one convenient location.

### Programmable Digital

The programmable digital thermostat enables the end user to set unique time and temperature profiles on a room by room basis. Especially suited where rooms of differing uses are located on the same floor, such as bungalows or homes containing an office

### Programmable Digital With Wi-Fi

Similar in operation to the programmable thermostat, the Wi-Fi thermostats have the ability to be adjusted from a centralized location either in or away from the property, via a simple phone app. These systems are especially suited to holiday homes, bed and breakfasts or hotels, where it might be desirable to adjust the heating from elsewhere.

### Wiring Centers

Our wiring centers are favored by our installers, these are available in 4 and 8 way units, providing ease of fitment.



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