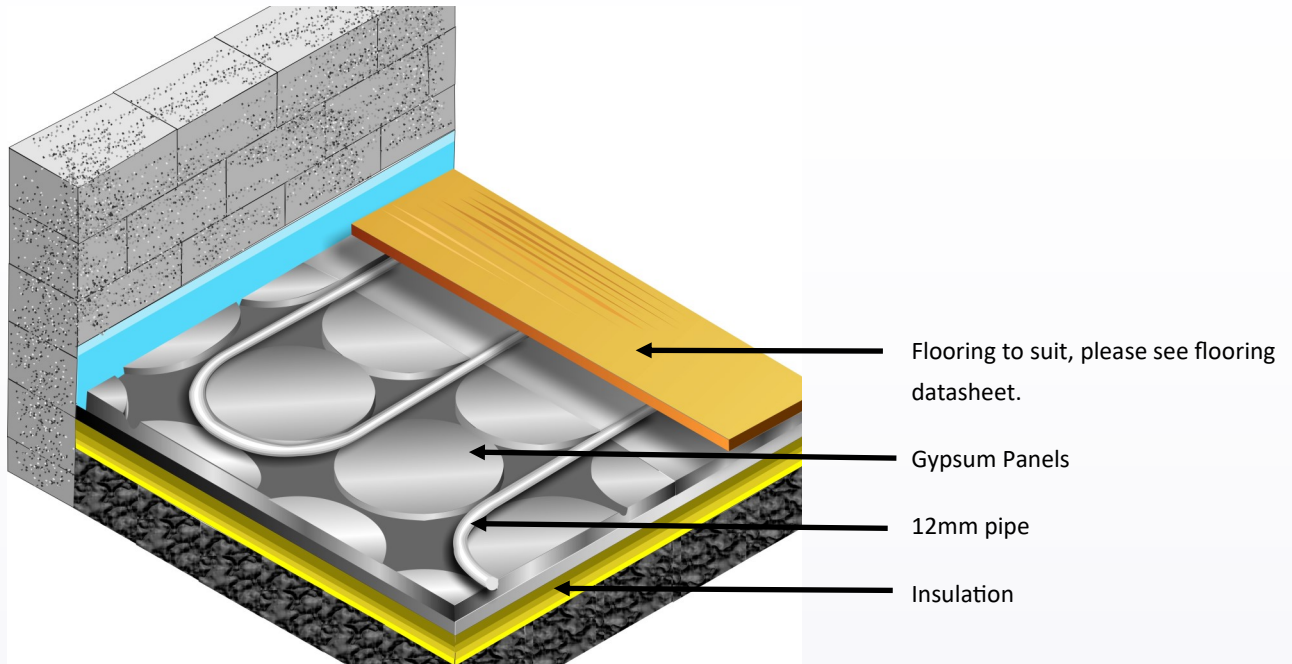


UNDERFLOOR HEATING
FLOOR CONSTRUCTIONS
GYPSUM OVERLAY RETROFIT

DESIGN | SUPPLY | INSTALL | SUPPORT | TRAIN

Gypsum Overlay:



Overview

A mainly retrofit underfloor heating floor construction used on ground and first floor installations in domestic properties.

High outputs for any given flow temperature, making it an ideal compliment to renewable and traditional heat sources. Due to maximum floor temperature limits, it is possible to have outputs of up to 100W/m^2 this is dependent on pipe concentration, floor covering and flow temperatures.

Minimal floor build up, so no changes to build.

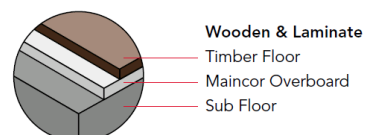
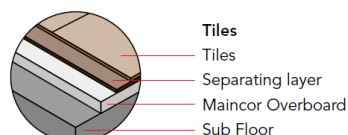
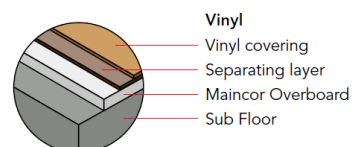
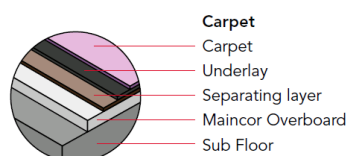
Insulation

Insulation levels must meet or exceed the requirements of part L of the building regulations.

Floor Coverings

Specific recommendations for floor coverings:

Carpet	A thin separating layer will be required
Tiles	Depending on the tile thickness but generally a thin separating layer will be required
Vinyl	A thin separating layer will be required
Wooden and laminate floors	Generally lay directly on the Overboards



Options

As the panel is pre-grooved, it is not possible to change the distance between the pipes.

FLOOR COVERING	MEAN WATER TEMPERATURE									
	30 °C		35 °C		40 °C		45 °C		50 °C	
	Heat Output W/m ²	Floor Surface Temp °C	Heat Output W/m ²	Floor Surface Temp °C	Heat Output W/m ²	Floor Surface Temp °C	Heat Output W/m ²	Floor Surface Temp °C	Heat Output W/m ²	Floor Surface Temp °C
Tile	56.60	25.24	84.90	27.86	113.20	30.48	141.50	33.10	169.80	35.72
Vinyl or 6mm Laminate	40.20	23.72	60.32	25.59	80.43	27.45	100.53	29.31	120.64	31.17
Carpet & Underlay (1.5 TOG)	30.00	22.78	45.00	24.17	60.00	25.56	75.00	26.94	90.00	28.33

Heat outputs are shown for pipes laid at 150mm centers, with an air temperature of 20°C.

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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