

Radical Screedboard

- ✓ High density, low profile board
- ✓ Easy to install
- ✓ 12mm pipe @ 150mm centres
- ✓ Pipe comes with 50 year warranty

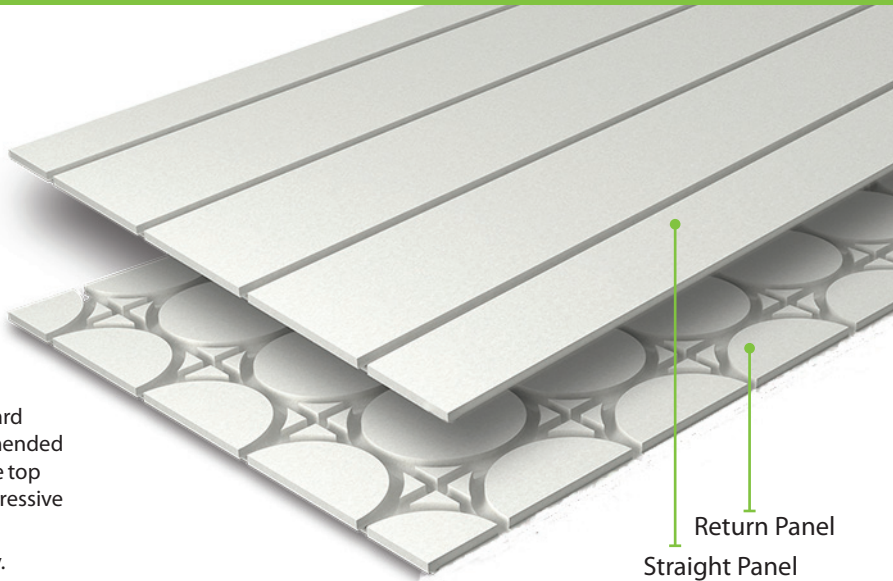
Radical Screedboard is a superb, high density and flexible screedboard solution for laying over a concrete subfloor. It is particularly recommended for tiled floor areas because ceramic tiles can be laid directly over the top with no additional layers required. Boards are high density with impressive sound insulation and heat retention qualities.

The system uses a 12mm PE-RT pipe which we can supply separately.

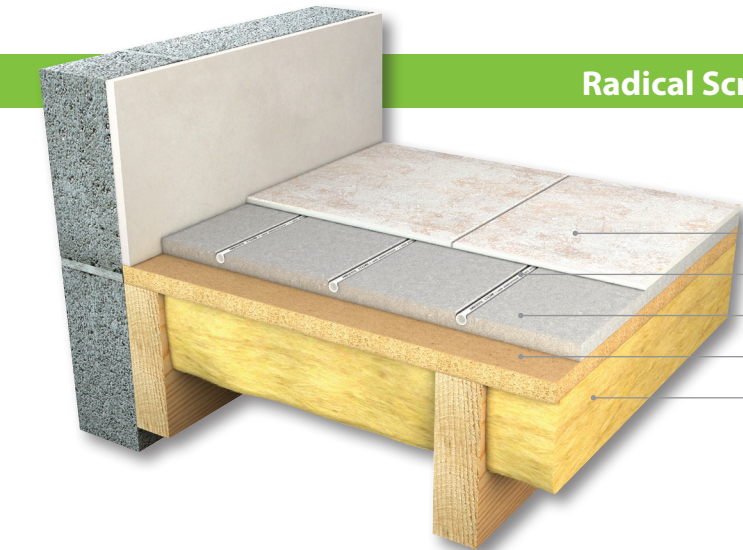
The pre-grooved channels can be used for all pipe run combinations. The panels can also be easily routed where required for added flexibility.

- Slimline 18mm board
- Versatile return and straight sections
- High compressive strength
- Flexible, pre-grooved screedboard
- Easy to install
- Suitable for new build and refurbishments
- PE-RT pipe comes with a 50 year warranty.

Quotes & Technical Support - 0161 711 0612



| Radical Screedboard technical data |                   |                   |
|------------------------------------|-------------------|-------------------|
|                                    | Return Panel      | Straight Panel    |
| Panel Size                         | 900 x 600 x 18mm  | 1000 x 600 x 18mm |
| Weight (per board)                 | 8kg               | 11kg              |
| Properties                         |                   |                   |
| Density                            | 1150 ± 50 (kg/m3) | 1150 ± 50 (kg/m3) |
| Thermal conductivity               | ≤ 0,32 W/(mk)     | ≤ 0,32 W/(mk)     |
| Minimum compression strength       | 5 (kPa)           | 5 (kPa)           |
| Specific heat capacity             | 1.1 (kj/kgk)      | 1.1 (kj/kgk)      |
| Air sound                          | 86dB              | 86dB              |
| Impact sound                       | 28dB              | 28dB              |



Radical Screedboard System - Floating Floor Construction

- Stone, ceramic tiles or timber flooring
- 12mm UFH pipe
- 18mm grooved screedboard
- Subfloor or slab
- Insulation

System Overview

As part of our range of low floor build-up solutions, we have produced the Screedboard system. The complete underfloor heating system is incorporated within an 18mm heavy duty screedboard. This is an excellent solution over and above the Lite system where the heated area is to be tiled upon with ceramics or stone and they can be laid directly on to the screedboard without the need for any further layers.

The Screedboard system can be used in existing and new build applications. It requires a flat and level sub floor for the screedboard to fully support the floor finish on top. The screedboard is pre-grooved to take 12mm underfloor heating pipework.

The pipework is then laid into the grooves and taken back to the manifold to complete the circuit. The installation is completed once the manifold has been pressure tested.

The system benefits from an improved heating output over other Retrofit systems due to the thermal conductivity of the screedboard. Radical will ensure that every underfloor heating design will be tailored specifically to the needs of each individual project. Our precise system designs for domestic and commercial applications include detailed pipe layouts plus full instructions covering all characteristics of each system.

## Radical Liteboard System - Floating Floor Construction



### System Overview

As part of our range of low floor build-up solutions, we have developed the Radical Lite system, incorporating the insulation and underfloor heating pipework within an 18mm or 25mm height. This is an excellent solution in cases where the floor buildup depth is limited – commonly found on refurbishment projects where floor to ceiling heights are fixed.

The Radical Lite system can be used in existing and new build applications. It requires a flat and level solid sub floor for the insulation to fully support the floor finish on top. The insulation is pre-grooved to take either 12mm or 16mm underfloor heating pipework and over laid with foil to assist the distribution of heat.

The installation involves covering the complete floor area with insulation and where necessary, using battens to provide extra support to door thresholds or perimeter edging. The pipework is then laid into the grooves as per the installation drawings and taken back to the manifold to complete the circuit. The installation is completed once the manifold has been pressure tested and signed off by a site representative.

The system is then overlaid with a fully floating floor deck onto which your floor finish is applied. In the case of wooden floors, this can be laid directly onto the insulation to minimise height buildup and maximise the heating output.

## Radical Timber Board System - Joisted Floor Construction



### System Overview

The Radical Timber Board System is another development of our overlay range, which is designed to provide a structural flooring solution that incorporates a 12mm underfloor heating pipe. A 6mm ply is required to be fixed down over a high grade chipboard. This protects the top of the pipe and provides extra floor strength. Floor finishes can be installed directly on top of this to complete the floor buildup.

Grooved chipboard panels are laid at 90° to the direction of the joists and all joints should be glued and screwed. The 12mm pipe is installed in the normal fashion with tail pipes running beneath the chipboard to minimise additional channels being routed in the chipboard. The pipes terminate at the underfloor heating manifold where the system is pressure tested and signed off by a site representative.