

Commercial Floor Heating

We are pleased to announce our new underfloor heating literature for the commercial project market. It details our standard systems, from traditional solid floors through to our new E-dB system.

The E-dB system has been designed and engineered to perform when installed. Installation is consistent and accurate ensuring maximum thermal transfer on each and every project. Acoustics and underfloor heating have not historically been mentioned in the same breath, now they can be having developed this system which meets and exceeds Part E regulations. Underfloor heating is common choice for such developments as apartment blocks and installing underfloor heating into an acoustic timber construction has always been challenging and the heating effect inefficient. The E-dB system has addressed the challenges and can meet the aspirations of developers, main contractors, architects and consultants. Removing the need for screed, using low flow temperatures and providing low thermal inertia for an almost direct acting response.

Whilst underfloor heating systems have not drastically changed nor improved over the last decade. The main gains have arisen due to changes in regulations leading to renewable heat sources and increased levels of insulation. This supports and maximises the efficient nature of underfloor heating. Our systems and solutions have moved with the times. The new range comprises acoustic and dry installed systems, refurbishment and project specific solutions. Images 1 and 2 below detail both a project specific approach and the new Terrain E-dB rail system.

Project specific solutions

Heat diffusion panels for new build, modular off-site and refurbishment projects. Various sizes, thicknesses and densities are available. Solution dependent on application and project specific requirements.

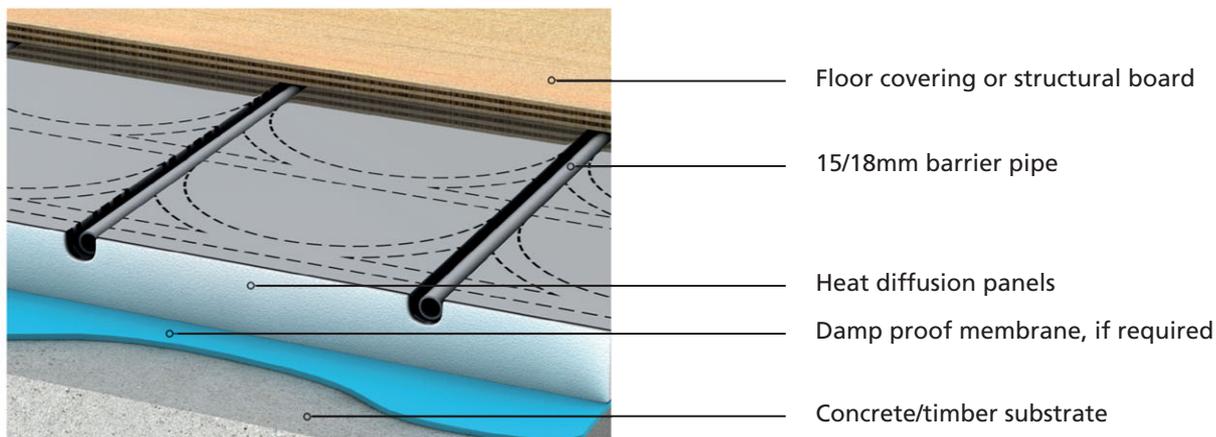


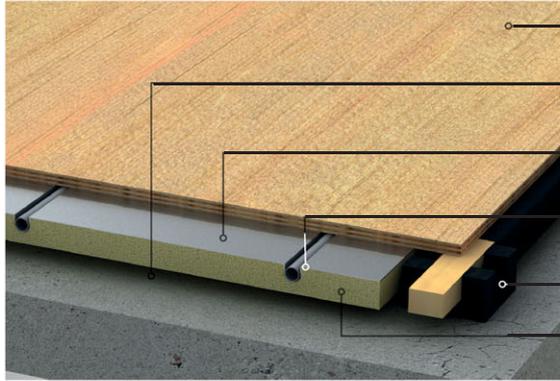
Image 1: Illustration of a project specific approach

TERRAIN

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Terrain E-dB

Excellent performance and reponse at low flow temperatures. Suitable for new build, renovation and material change of use applications. Part E compliant with potential regulatory benefits for BREEAM and Code for Sustainable Homes. Constructional and performance benefits when compared to a traditional screed system.*



- 18mm chipboard or 19mm cement fibre structural board
- Voids can be created for services to run below
- Heat diffusion panel
- 15mm barrier pipe
- Instacoustic cradle and batten system
- Insulation levels in accordance with current building regulations, meeting the values set within the heating compliance guide on intermediate floors with underfloor heating

*independent testing at BSRIA

Image 2: Illustration of the new Terrain E-dB system

Future controls

As a forward thinking company Polypipe Terrain are continually striving for new ways to develop systems. Within this envelope of work we now have a control system that can be accessed via smartphone, tablet and laptops from anywhere in the world with an internet connection.

Locally it works on a Bluetooth connection. Maintaining a zonal control strategy with complete management of the time and temperature for each zone, whether you are home or away.

Further integration can also be achieved into home automation systems and full BMS systems for commercial projects, as illustrated in image 3 to the right.



Image 3: Illustration of an FMS control strategy

I hope that the information in this bulletin is helpful to you and introduces the breadth of training materials available from Polypipe Terrain. If you would like to find out further details on the training and support that Polypipe Terrain can offer you please email me at steve.bishop@polypipe.com

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