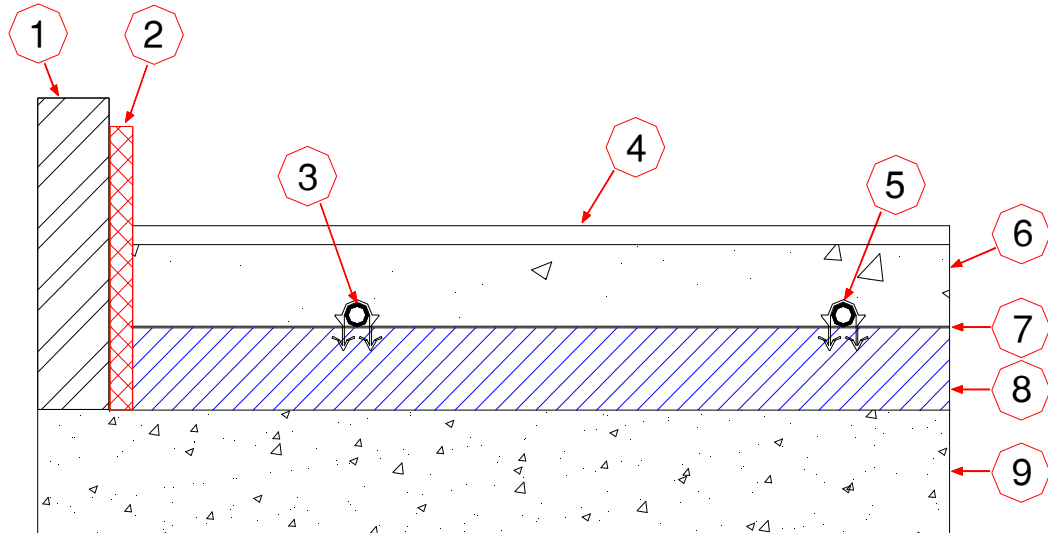


Document Title: Pro Underfloor - Typical Screed Floor Sections



System Components:

1. Wall, 2. Edge Strip, 3. Pro MLC Pipe, 4. Floor Finish, 5. Pipe Staple, 6. Screed, 7. Polyethylene Sheet 8. Thermal Insulation, 9. Structural Slab

Overview

Fig 1 shows a typical make of a screed floor. Using this method it is possible to achieve a high output (maximum output = 100w/m² within occupied areas). The pipe is secured to thermal insulation (supplied by others) by the Pipe Staples that are included in every Pro Underfloor Pack. A screed is laid over the pipe. The pipe is usually laid at 200mm centres and the Staples are to be used every 300mm. Please note that a minimum of 25mm of insulation is required to hold the clips. A staple gun is available for efficient fixing of the Pipe Staples and is recommended for regular underfloor heating installers.

Insulation

Ground floor insulation is to comply with Part L of the Building Regulations. If insulation is fitted below the concrete slab we recommend a further 25mm is fitted above the slab.

In addition to the floor grade thermal insulation, perimeter insulation is also required for screed floors. Edge strip is to be used around all interior and external walls. It takes up the slight expansion of the screed and reduces the heat loss to the buildings structure.

Floor Coverings

If using carpet and underlay is used the combined resistance of the two should not be less than 0.15m²K/W which is equal to a TOG value of 1.5. A combined TOG value of 2.5 should never be exceeded.

Screed

The polyethylene sheet is used to prevent screed from slipping between the insulation sheets.

We recommend a 65-75mm 4:1 sand cement screed. This can be reduced to 50mm if a liquid screed or reinforced screed is used. The screed should be allowed to fully cure and dry prior British Standards and the manufactures instructions. The UFH should not be used to speed up the drying time of the screed.

Pipe

The Pro Underfloor Pipe is a multi layer composite pipe. The pipe is contains an aluminium barrier which makes the pipe form stable and greatly simplifies installation. As standard the pipe work is laid at 200mm centres but any variances from this will be noted on your UFH layout and your quotation.