

Superior underfloor heating from Eltrace



The occupants of this property have taken full advantage of the surrounding countryside views and designed their extension to a converted farmhouse with a unique large window. To avoid any load bearing on the window itself, the architect had to calculate the size and strength of steelwork required to hold the ceiling and roof in position above the glass.

A band of heated floor approx 1 metre wide was installed inside the window to eliminate condensation and counter the effect of draughts. A direct acting heating system in a medium thermal mass was installed with the RFC17 heating cable system from Eltrace. The 17 w/m cable was attached to reinforcing steelwork directly above a layer of foil faced high density thermal insulation, finally covered with a 50mm layer of sand and cement screed.

Medium thermal mass systems are still direct acting and offer greater efficiency and energy savings than low thermal mass system due to their ability to retain heat energy for longer periods.

A conservatory is a valuable addition to any home and to make them comfortable all year round has created the need for electric underfloor heating.

The comfort level of this tiled floor for a major UK conservatory company was greatly enhanced with the latest RFM 150 w/m² mat heating system from Eltrace.

Digital temperature control with adjustable time settings means that the floor can be controlled to come on and off at the temperature you want when you want it, ensuring maximum efficiency and energy saving. The system installed was a direct acting heating system in a thin screed finish (low thermal mass) ensuring the floor level was raised by the minimum amount possible.

A Kahrs engineered wood floor is a true investment that offers a special interior design finish to any room. Our fitters installed a new walk-in wardrobe in this 40m² bedroom and then to warm the whole floor without damaging the oak flooring they fitted the Eltrace RFE130 underfloor heating system. Eltrace have used the whole surface of the floor to radiate heat with their specially formulated carbon film heating mats.

The Eltrace RFE130 system was laid on top of a 6mm layer of Depron insulation and is so thin it occupies the minimum space possible under the Kahrs floor.

The en-suite tiled floor was heated with the Eltrace RFM mat heating system.

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