

## FLOOR GRILLE TRENCH HEATING SYSTEM

### **PREPARATION**

Your **electrician** or **plumber** will need to be contacted to calculate the BTU output required to heat the room sufficiently. This will dictate the number of heating elements you need and where they are to be positioned.

Your **plumber** will advise if the existing house boiler is capable of coping with the extra supply, also whether you want to run off the existing house circuit or if you can create a new route directly back to the boiler.

You will need to consult your **electrician** if you are having the electrical heating system as you may wish to consider thermostatic or timer control which will allow you greater flexibility and efficiency.

Your **builder** should lay the damp-proof membrane, insulation and screed, in accordance with building regulation requirements. The base of the trench needs to finish approximately 300mm deep from finished floor level to allow for good air circulation around the heating elements.

### **INSTALLATION**

Once the blockwork and concrete is laid, the aluminium angle support brackets can be laid out into position. The distance between these can be checked and confirmed by placing the plywood spacer boards between the brackets where the floor grilles will sit.

Depending on the method of delivery or collection of your trench elements, the brass inserts may not be pre-fitted. These can be inserted once the support brackets are secured into position and hammered into position. Please make sure when doing this that metal surfaces are protected by a cushion block.

Once the supports are secured into place, it is important that the spacer boards are left in position whilst the final screed is being laid. Removal of these boards and tamping down the screed may result in a very slight lean on the aluminium angle which will result with the grilles needing to be trimmed.

Once the screed is dried the boards can be removed prior to fitting of the floor tiles.

When installing electrical and water heating elements please refer to our product information and make sure that these are positioned to the outer edge of the trench and not in the centre of the trench. Efficiency of this system relies on air being sucked from the outer walls, over the elements and flow freely into the centre of the room.

Finally fit the floor grilles. Minor trimming if required can be done with a metal file.

Your floor grilles have a painted matt black finish and may need re-touching in the future. Occasionally traces of rust appear but these can be cleaned and eradicated with a fresh coat of paint. Please do not to leave your floor grilles in damp conditions or rain as this will cause them to rust.

**Please remember never to cover up any electrical heating elements once commissioned.**