

Floor Laying Instructions

1. Set up pipe decoiler and all necessary tools and make sure working area is clear and clean.
2. Lay the damp proof membrane over entire floor area, overlapping at least 150mm up walls and where damp proof membrane sheets meet.
3. Roll out border edge insulation and lay floor insulation – this will help to hold the border edge in place until screeding. If the floor insulation is already in place, border edging can be stapled to the edges of the floor insulation using grip rail clips or a staple gun to fix to the wall. If required, lay polythene sheets across screeded area overlapping at least 150mm up walls and where sheets meet.
4. Lay grip rail lengths at 1m-1.2m intervals and as detailed on pipe layout instructions. Use the grip rail clips to secure the grip rail to the insulation (two or three clips per rail).
5. Fit the NovaTherm pipework as per the system designs and pipe laying instructions.
6. Screed the floor once the installation of pipework is complete and the system has been pressure tested.

Installation Method

1. Lay the grip rail lengths at approximately one metre intervals and at right angles to the direction the pipe is to be laid. Our grip rail has an adhesive backing strip and can also be secured further using grip rail clips provided. Lengths of grip rail can be clipped together end-to-end.
2. Check the system plans to see the number and length of each loop required. NovaTherm pipe is marked every metre to help you calculate loop lengths.
3. Starting on one side of the manifold, connect to the manifold flow bar. Make a note of which zone the loop serves on the manifold tag supplied.
4. Lay the pipe out, navigating the most efficient route between the manifold and the zone. Start laying the pipe into the grip rail, as per the system designs.
5. Individual grip rail clips can be used to hold the pipe to the insulation in between the grip rail and on tight bends.
6. On completion of the loop, follow the same route back to the manifold and connect to the return bar (bottom bar with blue caps), making a clear note of the actual loop length installed on the manifold tag.
7. Follow the same procedure for all loops until the area is evenly covered with pipe.
8. Once all loops are installed and connected to the manifold, the system can be pressure tested.

Manifold Positioning

NovaTherm manifolds are supplied ready assembled and simply need mounting on brackets prior to installation.

Note that the two manifold bars are offset so that the pipes can pass behind the lower bar for connection to the top bar – we recommend using the top bar as the flow and the bottom bar as the return. The manifold comes left-handed as standard, but can be changed, see opposite for 'how to change the handing of NovaTherm manifolds'.

Manifolds should be positioned where they are easily accessible to allow for future servicing and commissioning. We recommend allowing at least 200mm between the finished floor level and the bottom of the manifold, with 75mm clearance above and at least 50mm at either side.

