

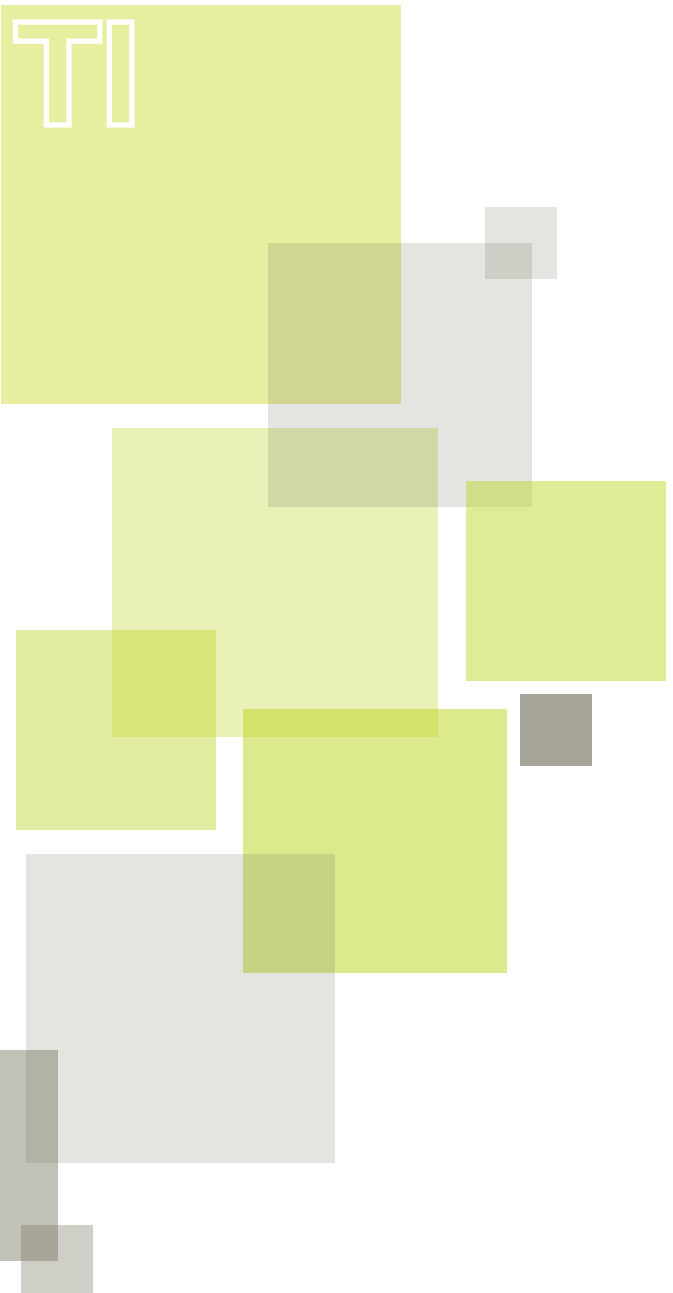


Installation Guides, Data Sheets & Technical Index's

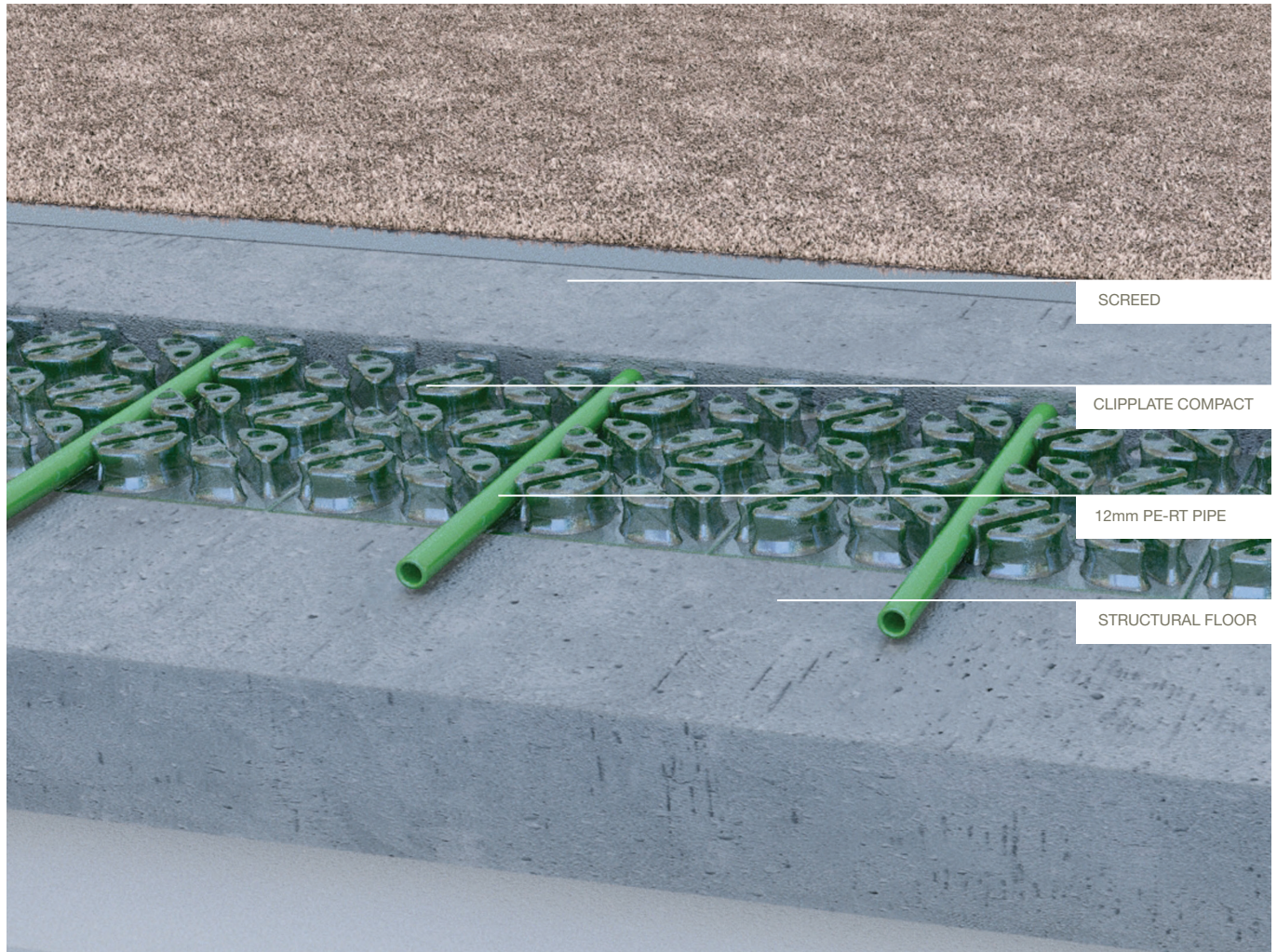
ClipPlate-11 & ClipPlate Compact

TI 5002

Detailed technical information on the use with underfloor heating.



TIMÓLEON DATA SHEET TI10018 - CLIPPLATE Compact



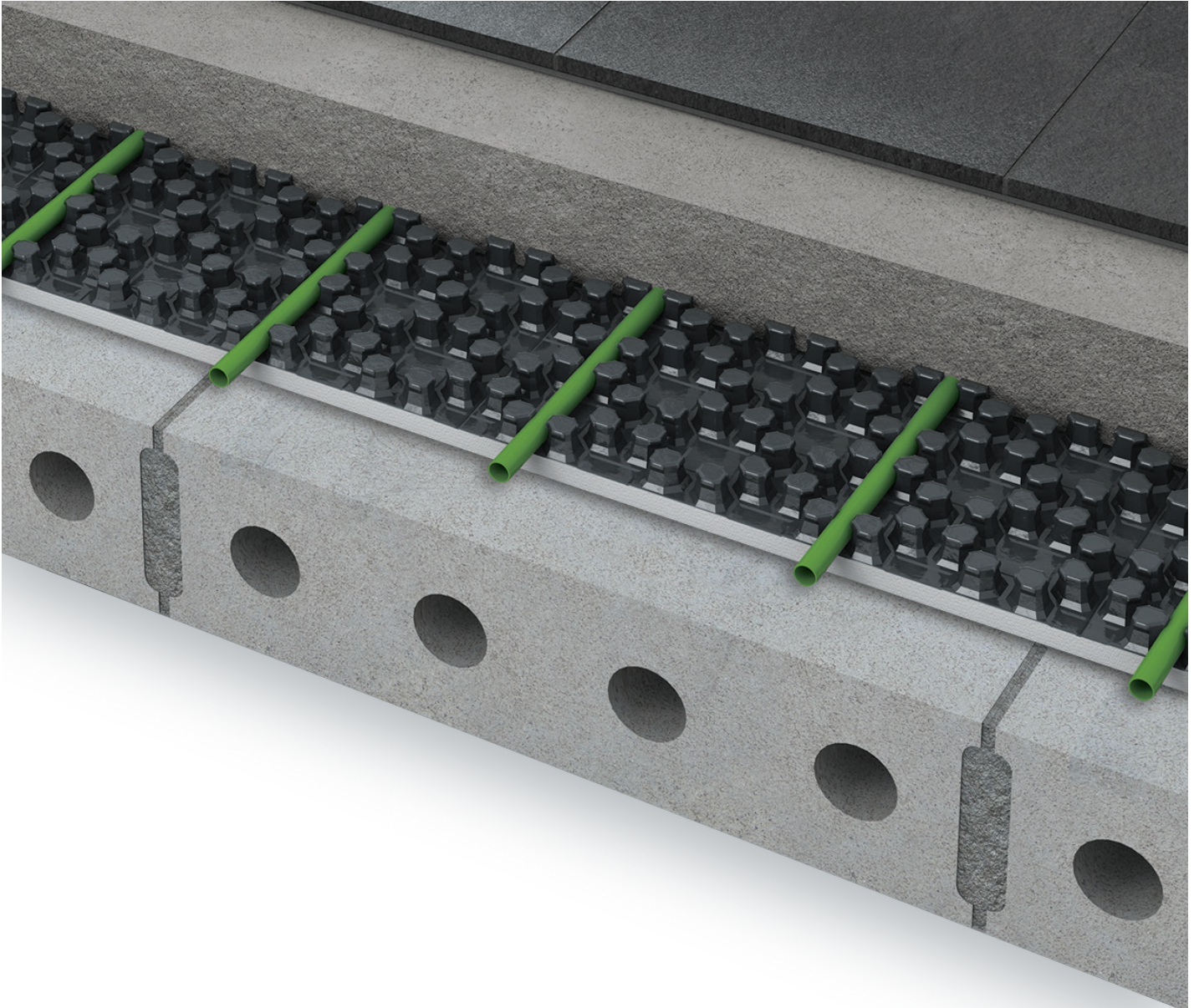
The ClipPlate Compact panel is designed for refurbishment applications. The panel is 14mm thick and uses 12mm pipe making it a much thinner panel. The panel comes with holes within it to allow the screed to flow within the panel. The plate has an adhesive layer on the underside that ensures the plate stays in place when the screed is being poured.

The design enables very thin screeds to be poured over the plate to give the lowest possible screed build up with an underfloor heating system – just 20mm.



PRIOR TO INSTALLATION

If it is necessary to store the system once you have taken delivery ensure it is kept dry, out of direct sunlight and away from sharp objects or possible chemical spillage. Ensure the area is weather tight.



The ClipPlate system has been purposely designed to avoid fixings and staples in floor and to speed up the installation of underfloor heating systems. The ClipPlate system is a series of interlocking sheets with an integrated 10mm expanded polystyrene insulation layer. The castellations in the panel provide grip for the pipe, whilst also providing protection from site traffic and the screed being laid.

ClipPlates can be installed over any subfloor. Where floor build-up is limited the integrated 10mm EPS provides some resistance when the product is laid over an uninsulated floor.

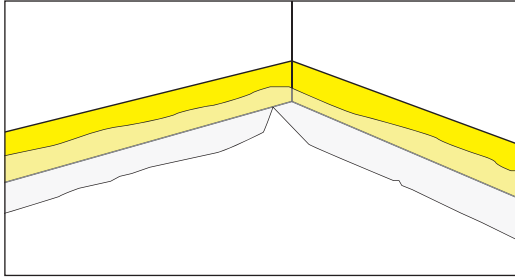
The panel is designed to allow pipes to be installed at spacings as close as 50mm and at 45° & 90° bends, providing additional flexibility.



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1

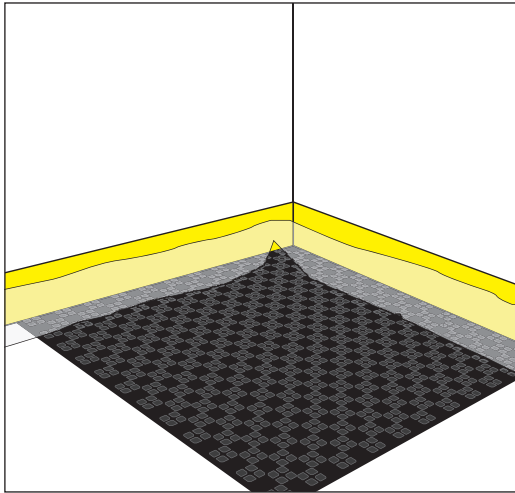


Lay the expansion foam around the perimeter of the room ensuring the gaiter is facing into the room.

2

Lay any additional insulation in accordance with Building Regulation requirements. Insulation should be laid so that there are no gaps and is installed hard up against the expansion foam.

3



Starting from one corner lay the first ClipPlate with the edgefoam gaiter lying on top.

If using clipPlate Compact. Remove the peel-off layer and stick the clipPlate Panel to the subfloor.

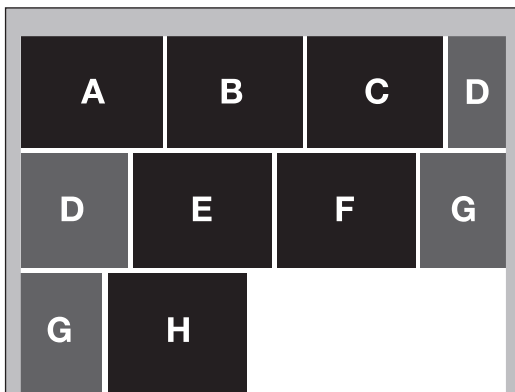
4



Lay the second ClipPlate by interlocking the uninsulated strip of "castles" into the first sheet.

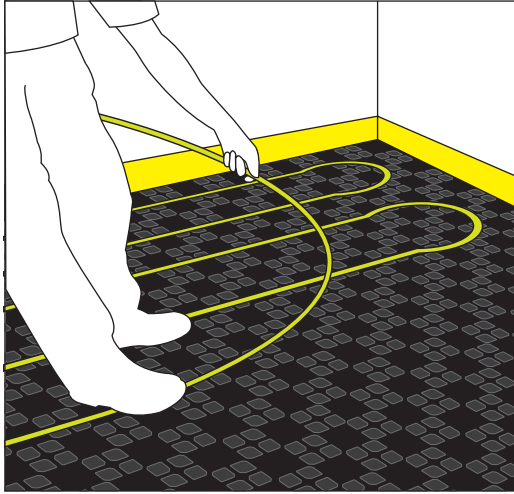
If using ClipPlate Compact the panels simply lay side-by-side.

5



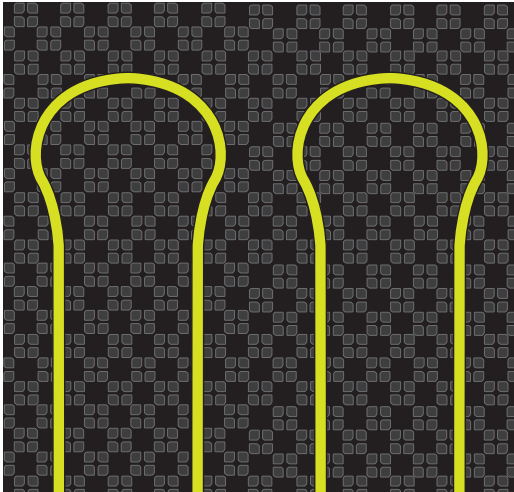
Continue to lay the interlocking ClipPlates across the floor, trimming the panels where necessary.

6



Referring to the Timoleon CAD design and starting at the manifold position lay the pipe into the ClipPlates at the appropriate centres as shown on the provided CAD drawings.

7



Repeat until all circuits are laid

8



Pressure Test each circuit and keep under pressure whilst screed is being laid.



WARNING

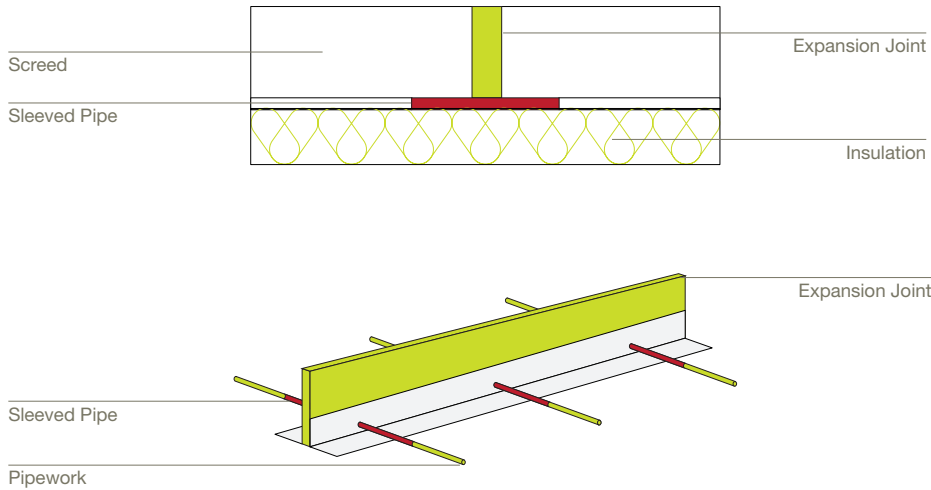
If the pipe work is kinked during the installation, the coil must be replaced.
No connections should be made unless accessible.

Note on expansion joints

For heating screeds intended for the application of stone or ceramic coverings, joint areas shall not exceed 40m² with a maximum length of 8m. In the case of rectangular rooms, joint areas can exceed these dimensions but maximum to the length relation of 2 to 1.

If induced contraction joints are placed in heating screeds, these may be cut a depth of not more than one third of the screed thickness taking into account the location of pipes and shall be sealed after heating up.

Only flow and return pipe should pass through expansion joints. Where this is the case the connecting pipes shall be covered with a flexible insulation tube of some 0.3 m in length spanning the expansion joint.



Please refer to the construction specification for details.

Filling/pressure testing

1. If the manifold is being used to pressure test all circuits at once close both primary isolation valves.
2. Connect a pressure tester to any drain valve, vent the system of air and increase the pressure to 6 bar.
3. Once at this pressure, leave for 60 minutes. If the pressure has dropped examine the pipework. It may be necessary to pressure test individual circuits to determine if there has been damage to the pipe.
4. If the pressure is maintained and passes the test record the results on the pressure test certificate. Have the test witnessed and certified by a third party.
5. Maintain this test pressure whilst the screed is being laid.

Screeding

It is advisable to keep the system under pressure when laying the screed at a minimum of 6 bar using water.

It is essential that the concrete or screed is allowed to fully cure before the underfloor heating system is first put into operation. Any operation of the heating system prior to curing will reduce the moisture content of the screed or concrete and may result in failure of the floor.

Initial warm up should only take place at least 21 days after the laying of the cement screed or in accordance with the manufacturer's instructions.

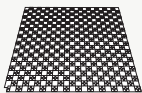
During the initial heat up, the mixing valve should be set to supply temperature between 20 °C and 25 °C which needs to be maintained for at least 3 days. After this period, the flow temperature can then be increased to the design maximum and should be held for a further 4 days to complete the process.



WARNING

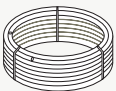
Under no circumstances should the underfloor heating system be used to increase the drying time for the screed, and always follow manufacturers instructions.

Accessories for this system



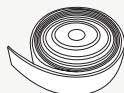
ClipPlate

Code USC-CP030
Dimensions 1000 x 1000



16mm Underfloor heating pipe

Code UPI-16XXX
Dimensions 16mm



Roll of edge foam

Code USC-EF50M
Dimensions 50m

