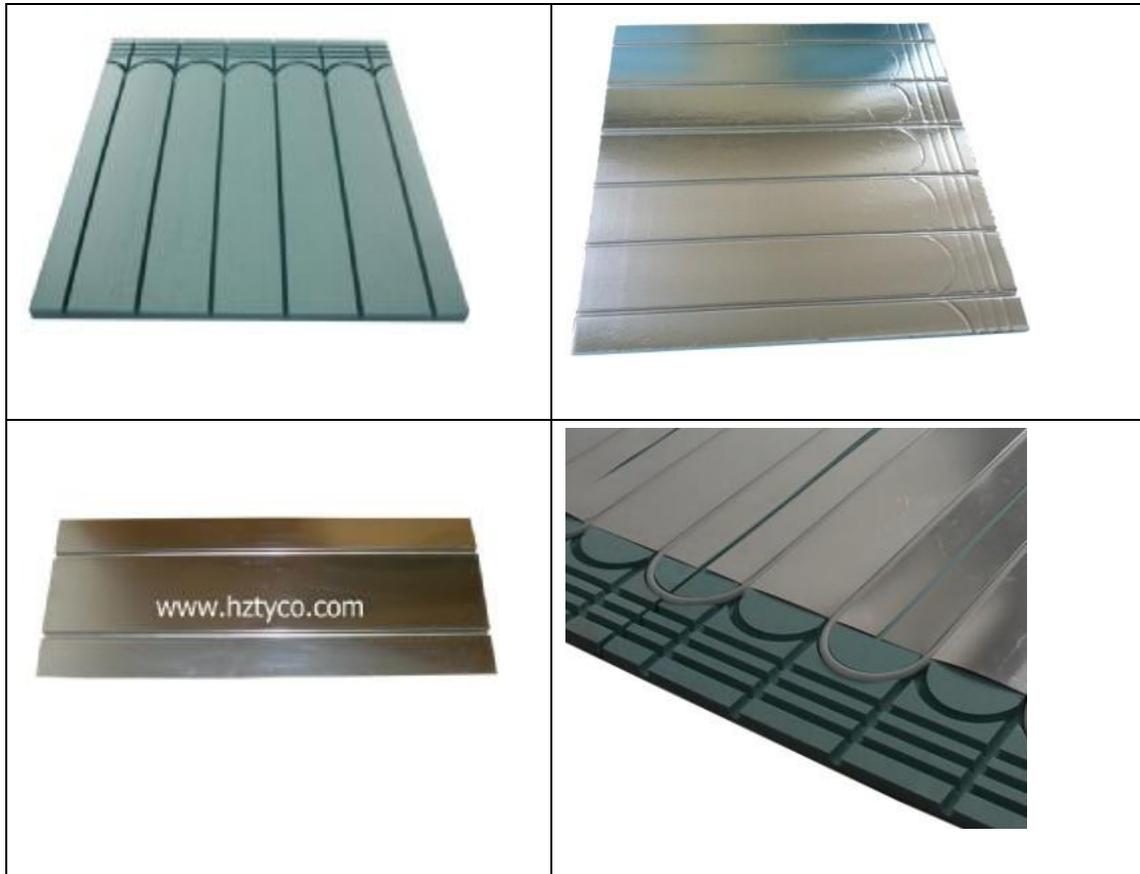


## TYCO WATER FLOOR HEATING INSULATION PANEL



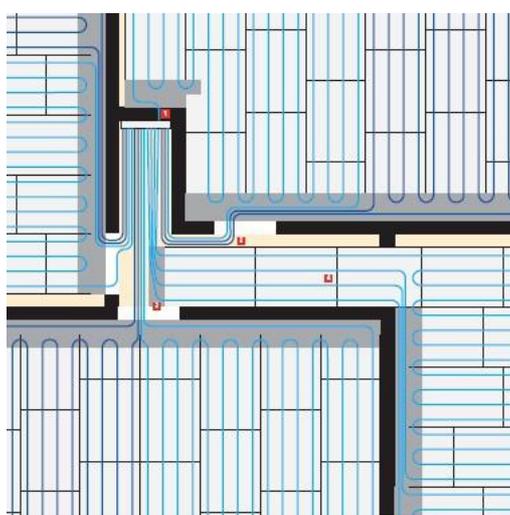
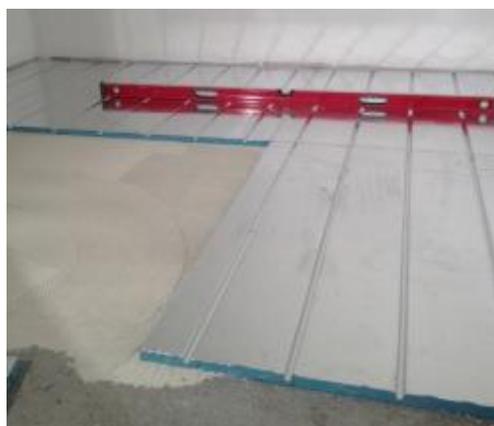
TYCO under floor heating insulation board is a low profile System for new build or renovation projects. It is a lightweight insulated panel with high compressive strength intended for use on light weight floor coverings, e.g. laminate, engineered wood and carpet. Due to its ease of handling and cutting it is also suitable for larger areas and multiple room installations. The installation uses 16/20mm pipe and 200mm centres for a highly responsive system.

### Technical data of TYCO under floor heating insulation board

Dimensions	1200 x 1200 x 28/30 mm
Materials	Extruded Polystyrene-XPS2 (BS EN 13164)
Compressive Strength	250 (kPa) @ 10% compression
Thermal Conductivity	0.03(W/mk)
Recommended Flow Temperature	50 - 60°C
Pipe Centres	150/200mm
Maximum Circuit Length	100m
Typical Coverage per Loop	13 - 15m <sup>2</sup>
Applications	New Build or renovation, single or multiple rooms
Floor Coverings	1) Tiles/slate/ceramic etc. used with TYCO floor heating insulation board;

	<ol style="list-style-type: none"> <li>2) Carpet/vinyl –use with suitable plywood covering;</li> <li>3) Laminate floors - use directly over insulation asfloating floor;</li> <li>4) Natural wood - fix to battens between panels.</li> </ol>
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**Installation:**

<p><b>STEP 1.</b></p> <p>Planning the installation will save time later and make installation easier. The main consideration is the amount of runs and the route those pipes will take from the manifold. There are a number of parallel grooves at either end of the boards. If more transit grooves are needed then the grooves at the opposite ends can be cut off and used. Where possible route pipes through rather than around walls and doorways to cut down on pipework congestion. When lining up panels use a short length of pipe placed in the grooves to align them together</p>	
<p><b>STEP 2.</b></p> <p>Plates need to be supported so that they sit level and make a good contact with the floor placed on them from above. Maintaining this contact is essential in producing good heat transfer performance.</p>	
<p><b>STEP 3.</b></p> <p>After placing the boards and ensuring they are flat and level and the joints are butted up firmly, tape the joints using aluminum self adhesive tape.</p>	

#### STEP 4.

Start laying the pipework by pressing it firmly into the grooves. Where the pipework is connected to the manifold there will be a need to use plain insulation and pipe staples to accommodate the closer pipe centres



#### STEP 5.

Where the pipe changes direction cut the foil in the return loops using a craft knife to prevent damage to the board. This will ensure a tight fit for the pipework.





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**STEP 6.**

After installing the pipework , Aluminum self-adhesive tape can be placed over the end loops to prevent the pipework from becoming dislodged during the installation of the finished floor.



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