

XPS Installation Guide



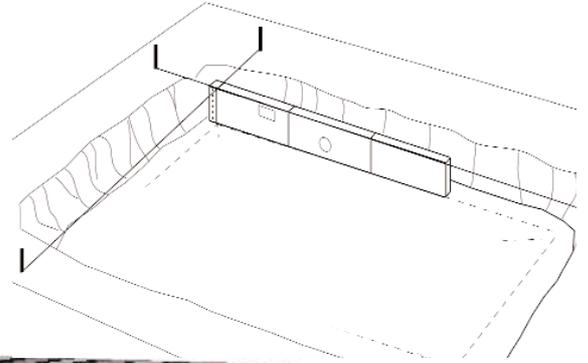
XPS Installation Method - Panel Pool Construction

XPS thermal boarding is an **Extruded** Polystyrene closed cell board (XPS). The boards 1200 x 600 x 80mm will enable you to prevent minimal heat loss through the walls and floor (optional) of the pool. **IMPORTANT:** do not be tempted to use cheaper alternative under floor insulation such as EPS, Jablite, Polyurethane, Polystyrene or similar products as these absorb water and will have an adverse effect on retaining heat in your pool!



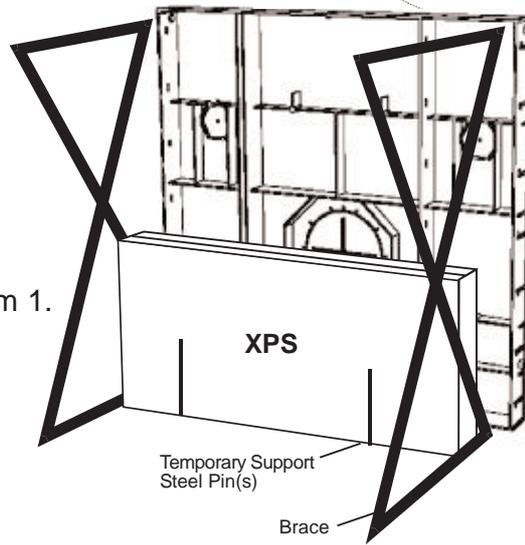
To insulate a panel pool wall structure read the following instructions. If panels have been supplied in increments of 6ft then trimming will be necessary using a handsaw.

STEP 1 Assemble pool wall and place into position as per manufacturers instruction. Do not place any concrete around the panel at this stage.



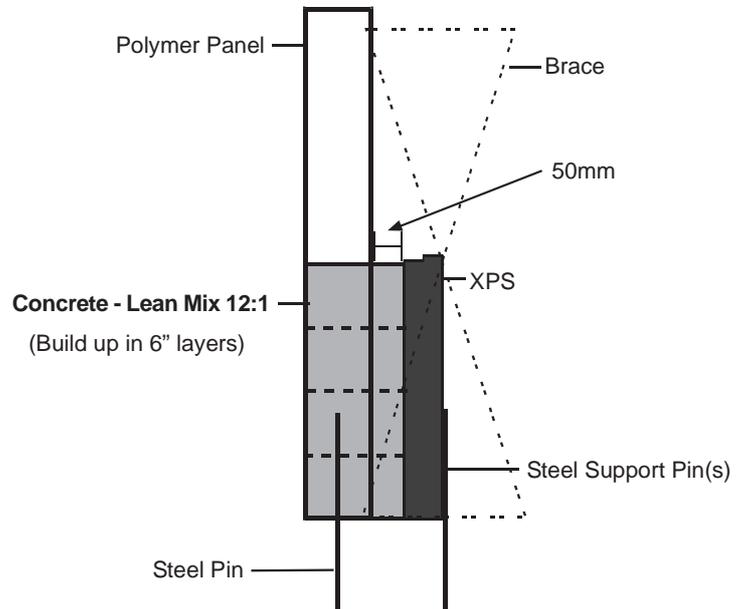
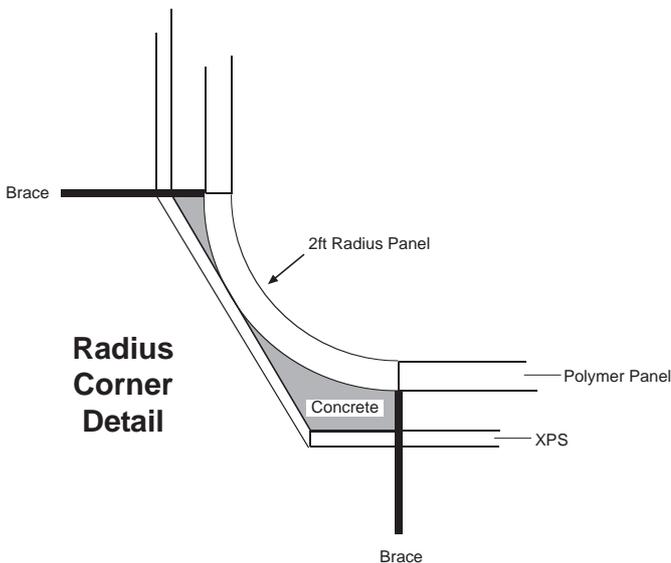
STEP 2 Place one layer of XPS boarding (50mm away from back of panel) horizontally and position at the base of the panel as per diagram 1. Using two steel support pins (450mm) insert these into the ground to temporarily prop up the XPS boarding. Repeat this process around the perimeter of the pool wall.

diagram 1.

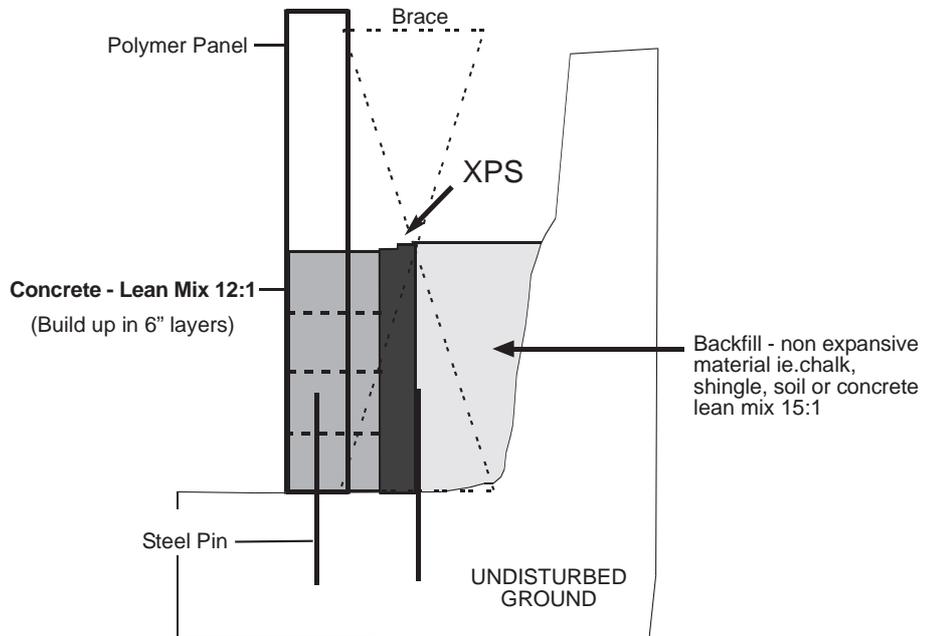


STEP 3 When the first layer of XPS is in position, infill between the panel and the boarding with a concrete lean mix (ratio 12:1). It is important to make the concrete mix fairly dry. A runny wet mixture may result in the boards being displaced or dislodge.

Build up in layers around the perimeter of the pool i.e. 6" depth layers.



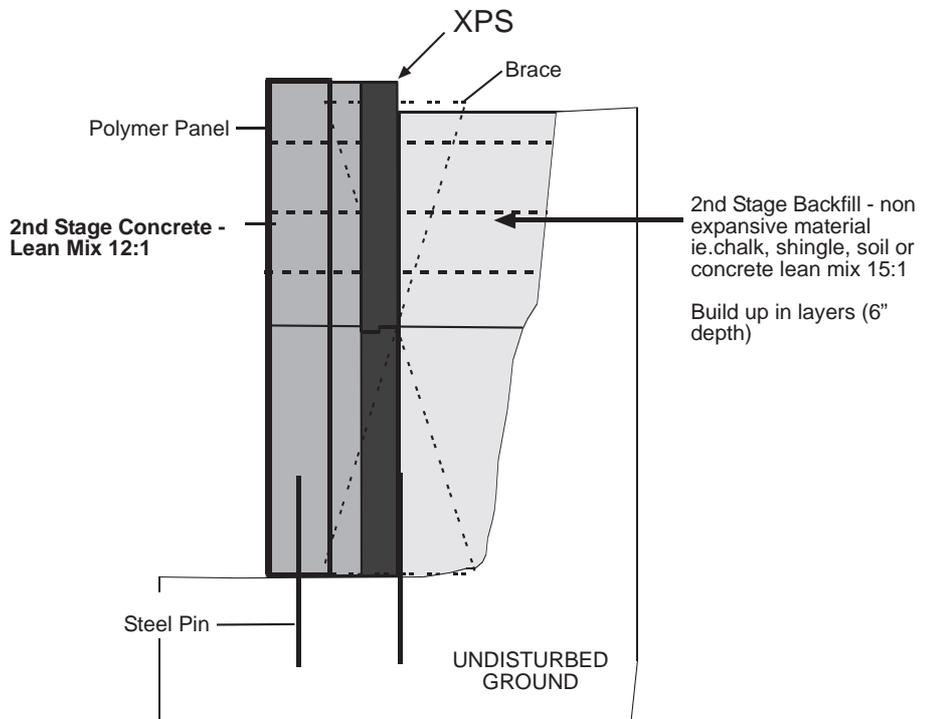
STEP 4 Using a non-expansive material, backfill up to the height of the first XPS board.



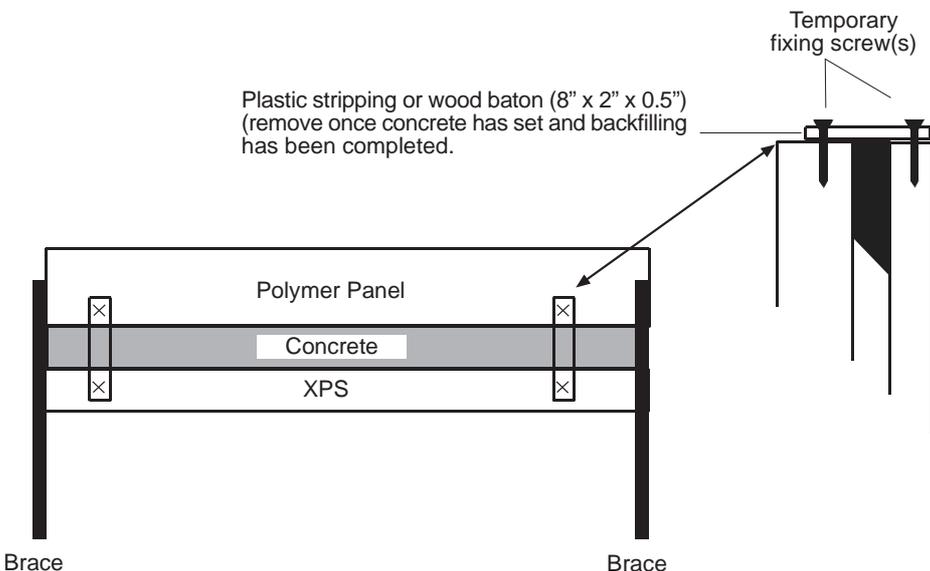
STEP 5 Apply 2nd XPS sheet on top of the 1st XPS board. **Prior to pouring** 2nd concrete stage, use either plastic stripping or wooden batons to hold the XPS boards in place, see Plan View diagram below.

It is important to make the concrete mix fairly dry. A runny wet mixture may result in the boards being displaced or dislodge.

Build up in layers around the perimeter of the pool i.e. 6" depth layers. Commence backfilling at the same time in 6" layers.



PLAN VIEW



Floor Installation

XPS boarding can be used to insulate the pool floor. It is important to make sure that adequate soil has been removed prior to laying the down the XPS sheets. The amount of soil to be removed will depend on the ground conditions.

Ideally, you will need to form a flat level surface on which the XPS can be laid on. In the event that there are too many undulations or the ground conditions do not allow this, then it is our recommendation to blind the whole floor area with a concrete lean mix (ratio 15:1). The diagram below allows for 50mm depth but this can be increased or decreased dependant on site conditions.

