

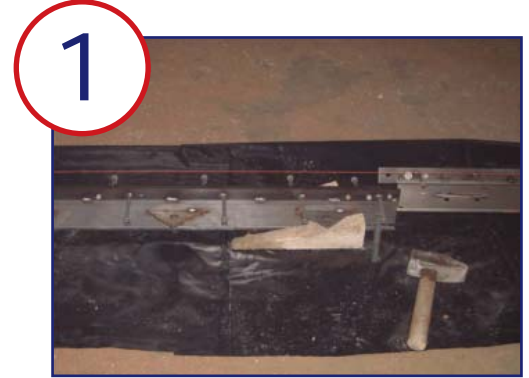


AlphaJoint 4010 Installation

ISSUE 1.3
11 January 2010

- USING T-BARS & PIN FIXINGS

1. Layout the run of AlphaJoint 4010 to a string line, working away from any 4-way, T-sections or corner units. Along each side of the AlphaJoint 4010 place tapered timber wedges under the dowels at each end and at the middle of the first AlphaJoint 4010 3m section.



2. Adjust the wedges to raise or lower the AlphaJoint 4010 to the correct level, ensuring that it is also level laterally across the two metal strips.



3. Using a hammer drill and 14mm bit (for 16mm pins), drill a vertical hole adjacent to the head of a stud at the end of the first rail to be placed. The hole should be drilled to a depth 100mm less than the depth of the final pin height. Driving the pin this last 100mm into solid material ensures rigid support. For a 200mm rail using 400mm pins, the hole should be approx. 150mm deep.



4. Weld the pins and t-bars to the studs. The t-bars are supplied over-length to make holding and welding easier but the excess material is easily removed with bolt croppers to ensure the t-bar is not showing above the shear stud. For additional support at junctions of the Alphajoint, weld a 6mm support bar between the 16mm pin and the divider plate.



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5. At the AlphaJoint 4010 intersections use an M8 nylon bolt with steel nut and washer. This ensures the joint opens correctly; the nylon bolt will shear as the two steel strips will pull apart when the concrete contracts.



6. If considered necessary, a cable tie can be used to fix the two joining AlphaJoint 4010 sections together at the bottom of the divider plate.



7. For slabs up to 200mm deep, pins and T-bars are placed on opposite sides of the joint at approx. 1m centres. However, these centres should DECREASE as the slab thickness INCREASES.



8. Work AWAY from any column or joint intersections.



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9. Double check that the AlphaJoint 4010 line is straight.



10. Pins are cut off just above the 10mm x 100mm shear studs so that they will not protrude above the level of the finished floor.

