



## AlphaJoint 4010 Installation

ISSUE 1.4  
11th January 2010

### - USING ALPHAFIX

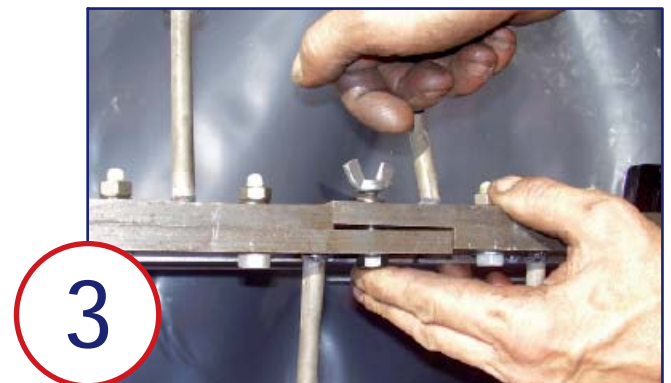
1. For slabs up to 200mm thick attach one AlphaFix at the start of the run, one AlphaFix at the midpoint of a 3m length of AlphaJoint 4010 and one at the joining position of the next 3m formwork length (i.e. AlphaFix attached at 1.5m centres).

For slabs above 200mm thick, attach AlphaFix as above and drive additional road form pins through the holes in the dowel plates on one side - see figure 11 - this will resist sideways thrust in the slab.

2. Join the 3m lengths of AlphaJoint 4010 by bringing the lapped ends together and installing the 10mm diameter hollow split dowel into the 10mm slots punched into the steel strip.

3. The lapped ends are fixed together with an M8 x 40mm steel bolt through the hollow split dowel, as shown. Where the AlphaFix units are attached, the AlphaFix block with the M8 threaded end would replace the M8 steel bolt.

4. The AlphaFix block (referred to as the AlphaFix End) with the M8 threaded rod passes through the slots in the 10 x 40mm steel armour strips. Ensure the AlphaFix End is inserted through a slot with a split dowel fitted and secure it with the M8 wingnut supplied.



## AlphaJoint 4010 Installation

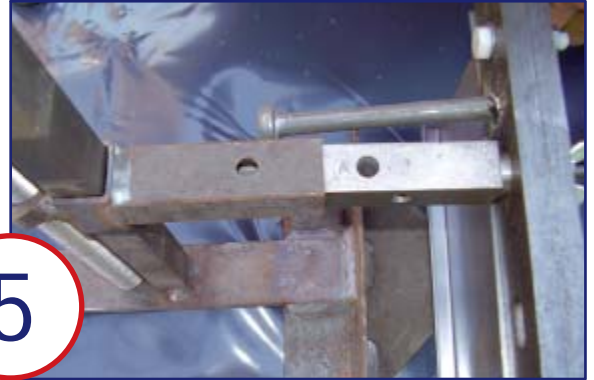
ISSUE 1.4  
11th January 2010

- USING ALPHAFIX

5. Slide the box section of the AlphaFix installer onto the AlphaFix End which is now attached to the AlphaJoint 4010 formwork and orientated correctly.

**NOTE:** At this point, be sure to check that the AlphaFix End is displaying Slot Set 'A'. This will ensure that the AlphaJoint 4010 is installed upright and correct before any concrete is placed.

5



6. Connect the AlphaFix installer to the AlphaFix End with an M8 steel bolt.

6



7. To set the joint for line, use a hammer drill with an SDS adaptor, a 12.5mm square drive and 24mm extended socket which fits over a 22mm diameter road form pin. Drive the pin through the hole at the end of the AlphaFix base.

7



8. After fixing the pin into position, tighten the M16 bolt at the rear of the hole through which the road form pin has passed; this will secure the AlphaFix to the pin so that the AlphaJoint 4010 can be manipulated for line and level.

8



## AlphaJoint 4010 Installation

ISSUE 1.4

11th January 2010

- USING ALPHAFIX

9. Ensure that the AlphaJoint 4010 formwork run is straight, if not, adjust to line by way of the bolt at the rear of the AlphaFix.

9



10. Set the AlphaJoint 4010 formwork to the final floor level by adjusting the nut on the top of the AlphaFix unit.

10



11. Drive additional pins into the subbase through the hole in the dowel plates to increase the stability of the joint. The number of additional pins will increase as the slab depth increases - be sure to fix sufficient to resist the poured concrete pressure. For slabs deeper than 275mm, a tack weld can be used to weld the road form pin to the dowel plate but this must only be employed if the site engineer considers it necessary for extra rigidity on deeper slabs.

11

