

# INSTALLATION

ANZ  
CS08

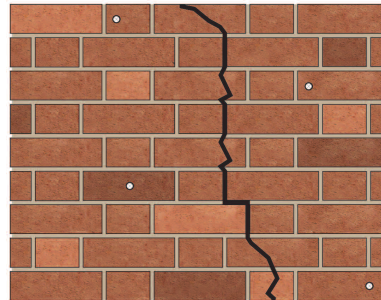
## Cross stitching a cracked solid wall using CemTies

Product	Description	Code
CemTie	Helical stainless steel pin	HCT
HeliBond	Injectable cementitious grout	HLB
HeliPrimer	Water-based primer for porous substrates	HWB
CrackBond	Epoxy resin for filling cracks	HCB

### Method Statement

1. Mark the points for CemTie installation on the face of the wall.\*
2. Drill a 14mm clearance hole (16-18mm if CemTie 600mm or longer) at the required location and angle, and to the specified depth.\*
3. Clean out all dust from the hole and thoroughly flush with water. Where the substrate is very porous or flushing with water is inappropriate, use HeliPrimer WB. Ensure the hole is damp or primed prior to commencing step 8.
4. Attach the required length of CemTie pinning nozzle to the Helifix Pointing Gun so that the flared end of the pinning nozzle sits inside the cone.
5. Mix HeliBond cementitious grout thoroughly using a drill and mixing paddle and load into the gun.
6. Pump grout to fill the nozzle.
7. Wind the CemTie into the nozzle and ensure that it is fully covered in grout.
8. Insert the nozzle to the full depth of the drilled hole and pump the grout. Slowly withdraw the nozzle while pumping. The CemTie will be carried out with the HeliBond grout as it is forced through the nozzle. Back pressure will help to push the nozzle back out of the hole.
9. Make good all holes at the surface using either a mixture of sand, cement and oxide colouring to match the original surrounding brick surfaces or a silicone sealant coated with brick dust or drillings. Make good the crack using an appropriate Helifix bonding agent or filler, e.g. CrackBond, depending on the width of the crack.
10. Clean tools with clean, fresh water.

**CAUTION.** Always locate, identify and isolate any electrical, water or gas services which may be present in the wall or the wall cavities and can pose a safety risk before drilling or cutting. Always take the necessary safety precautions. Use electrical safety gloves and wear appropriate footwear and eyewear.



#### RECOMMENDED TOOLING

For drilling .....SDS rotary hammer drill 650/850w  
 For mixing HeliBond .....Drill with mixing paddle  
 For insertion of the CemTies .....Helifix Pointing Gun HD with CemTie pinning nozzle

#### \*SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A. CemTies are to be installed perpendicular to the direction of the plane of the crack (e.g. in the horizontal plane for vertical cracks and in the vertical plane for horizontal cracks).
- B. CemTies are to start a minimum of 225mm away from the crack.
- C. Depth of hole to be CemTie length + 25mm.
- D. Angle of drilling to be such that the CemTies will pass through the crack within the centre third of the wall.
- E. CemTies are to start from alternate sides of the crack and to be at 225mm spacing measured along the length of the crack.
- F. In hot conditions ensure the masonry is well wetted or primed to prevent premature drying of the HeliBond due to rapid de-watering. Ideally additional wetting of the hole, or priming with HeliPrimer VWB, should be carried out just prior to inserting the CemTie.
- G. Do not use HeliBond when the air temperature is +4°C and falling or apply over ice. In all instances the slot must be thoroughly damp or primed prior to injection of the HeliBond grout.

The above specification notes are for general guidance only and Helifix reserves the right to amend details/notes as necessary.

#### GENERAL NOTES

- Product details available from Helifix.
- Contact Helifix if your application differs from this repair detail or you require specific technical information.