

INSTALLATION

**ANZ
RF01**

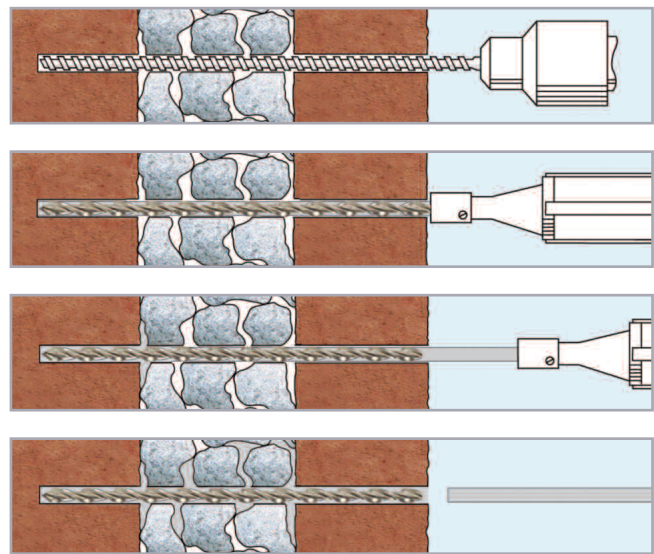
Pinning rubble-filled walls using CemTies

Product	Description	Code
CemTie	Helical stainless steel pin	HCT
HeliBond	Injectable cementitious grout	HLB
HeliPrimer	Water-based primer for porous substrates	HWB

Method Statement

1. Mark the points for CemTie insertion on the face of the wall.*
2. Drill a clearance hole at the required location and to the specified depth and diameter.*
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.
10. Make good the entry hole with matching materials.
11. 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 drillingSDSrotary hammer drill 650/850w
 For mixing HeliBondDrill with mixing paddle
 For insertion of the CemTiesHelifix 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 at a minimum density of approx. 2.8 ties/m² (approx. 600mm horizontal and 600mm vertical spacing).
- B. The density is to be increased around openings with ties placed at a maximum 300mm vertical spacing and 225mm back from the opening.
- C. CemTie length should equal 50mm less than all the materials being tied.
- D. Clearance hole diameter to be:

CemTie Length	Up to 600mm	600 to 1000mm	1000 to 1200mm
Drilled Hole Diameter	14mm	16-18mm	18mm

- E. Depth of hole to be CemTie length + 25mm.
- 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 should be carried out just prior to inserting the CemTie.

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.