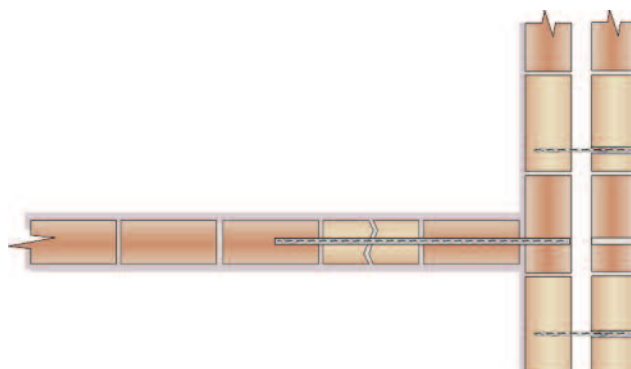


BRW02 Reconnecting a cracked internal wall to an external cavity wall using CemTies

METHOD STATEMENT

1. Mark the locations for the CemTie pins onto the face of the wall at the required spacing. (Refer to the Specification Notes for typical spacing requirements.)
2. Drill a 16mm \varnothing clearance hole through the outer wall and to the required depth (Refer to the Specification Notes for depth requirements).
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.
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. Ensure that the CemTies do not extend back into the outer leaf as they will be covered in grout and could form a cavity bridge.
9. Make good all holes at the surface using either a mixture of sand, cement and oxide colouring to match the original surrounding brick/stone surfaces or a silicone sealant coated with brick dust or drillings. Make good the crack using an appropriate Helifix bonding agent or filler 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 650/700w
For mixing HeliBond	Drill with mixing paddle
For insertion of the CemTies	Helifix Pointing Gun with Cemtie Pinning Nozzle
For smoothing pointing	Standard finger trowel

Specification Notes

The following criteria are to be used unless specified otherwise:

- A. CemTies are to be installed at a vertical spacing of 425mm.
- B. CemTies are to extend an equal distance, and typically to not more than 500mm, either side of the crack.
- C. Depth of hole to be CemTie length + 25mm.
- D. CemTies are to be installed within the centre third of the wall.
- E. Suitable Helifix wall ties to be installed on each side of the junction not more than 225mm back from the junction and at a maximum vertical spacing of 300mm (see Repair Details BRT01-03).
- 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

- If your application differs from this repair detail or you require specific technical information, call Helifix on 1300 66 70 71.