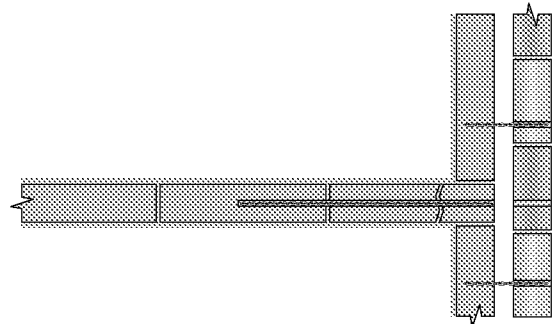


Reconnecting a Cracked Internal Wall to an External Cavity Wall using CemTies

METHOD STATEMENT

1. Remedial wall ties should be fitted, as shown, on either side of the internal wall (See relevant pages on DryFix, RetroTie and ResiTie).
2. Mark positions for holes on the outer face of the wall.
3. Drill a 16mm clearance hole through the outer wall and to the required depth.
4. 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 9.
5. Attach the required length of CemTie pinning nozzle to the gun.
6. Mix HeliBond cementitious grout using a power mixer and load into the Helifix Pointing Gun HD.
7. Pump grout to fill the nozzle.
8. Wind the CemTie into the nozzle and ensure that it is fully covered in grout.
9. Insert the nozzle to the bottom of the drilled hole and pump the grout until the CemTie is fully embedded.
10. Make good all holes at the surface with matching mortar and brick dust. The crack within the wall should be weather-proofed using an appropriate Helifix bonding agent e.g. HeliBond or CrackBond, depending on the width of the crack and the surface made good or left ready for any decoration.
11. Tie inner and outer leaves together using appropriate Helifix wall ties.
12. Clean tools with clean, fresh water.



RECOMMENDED TOOLING

- For drilling SDS rotary hammer drill 650/700w
 For mixing HeliBond 3-jaw-chuck drill with mixing paddle
 For insertion of the CemTies Helifix Pointing Gun Kit HD with pinning nozzle

Specification Notes

The following criteria are to be used unless specified otherwise:

- A. Wall ties to be inserted at 225mm vertical spacing, 225mm back from the junction, and staggered on alternate sides of the junction.
- B. CemTies are to be installed at a vertical spacing of 450mm.
- C. CemTies are to extend at least 500mm past the crack.
- D. Depth of hole to be CemTie length +25mm.
- E. CemTies are to be installed within the centre third of the wall.
- F. CemTies should not extend back into the outer leaf as they will be covered in grout and could form a cavity bridge.
- G. In hot conditions ensure the masonry is well wetted or primed to prevent premature curing of the HeliBond due to rapid de-watering. Ideally additional wetting of the hole, or priming with HeliPrimer WB, should be carried out just prior to inserting the CemTie.
- H. Do not use HeliBond when the air temperature is -4°C and falling or apply over ice. In all instances the hole must be thoroughly damp or primed prior to injection of the HeliBond.

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 advice on your particular project, call the Helifix Technical Sales Team on 020 8735 5222. Our Technical Department can provide you with a full support service including:

- ◆ Advice, assistance and recommendations on all structural repair matters
- ◆ Devising and preparing complete repair proposals for specific situations
- ◆ An insurance-backed warranty via our Approved Installers scheme