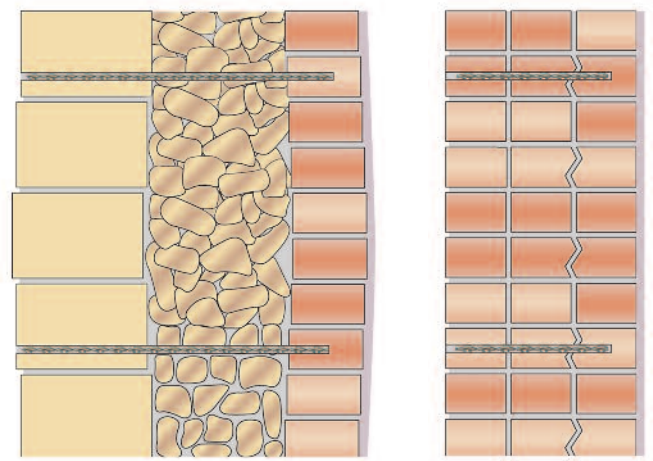


# BRF01 Repair of delaminated or separating masonry in a rubble-filled or solid wall using CemTies

## 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 12–14mm Ø clearance hole, or 16mm Ø if the CemTie is longer than 450mm, at the required location and to the specified depth. (Refer to the Specification Notes for typical 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. (Alternatively, fill the hole with grout and wind the CemTie into the grout-filled hole.)
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.
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

## 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/m<sup>2</sup> (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. Depth of hole to be CemTie length + 25mm. CemTies should be embedded to a minimum depth of 75mm into the far leaf.
  - D. 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.