

## SECURING STRAIGHT PARAPET WALLS IN SOLID MASONRY USING STRUCSOL ULTRABARS AND GROUT TIES (1 OF 2)

### Recommended Tooling

- ▮ For cutting slots 40mm deep or over: Twin-bladed cutter with a vacuum attachment.
- ▮ For drilling: SDS Rotary percussion 3-jaw chuck drill.
- ▮ For mixing StrucSol HSGROUT: SDS Rotary percussion 3-jaw chuck drill with mixing paddle.
- ▮ For injection of StrucSol HSGROUT into slots: Applicator gun + Mortar Nozzle.
- ▮ For insertion of Grout Ties: Grout Tie Pointing Gun.
- ▮ For smoothing pointing: Standard Finger Trowel.
- ▮ For Injection of the StrucSol Crack Filler: A 400ml Mastic Gun is required.
- ▮ PPE Clothing and Protection.

### General Notes

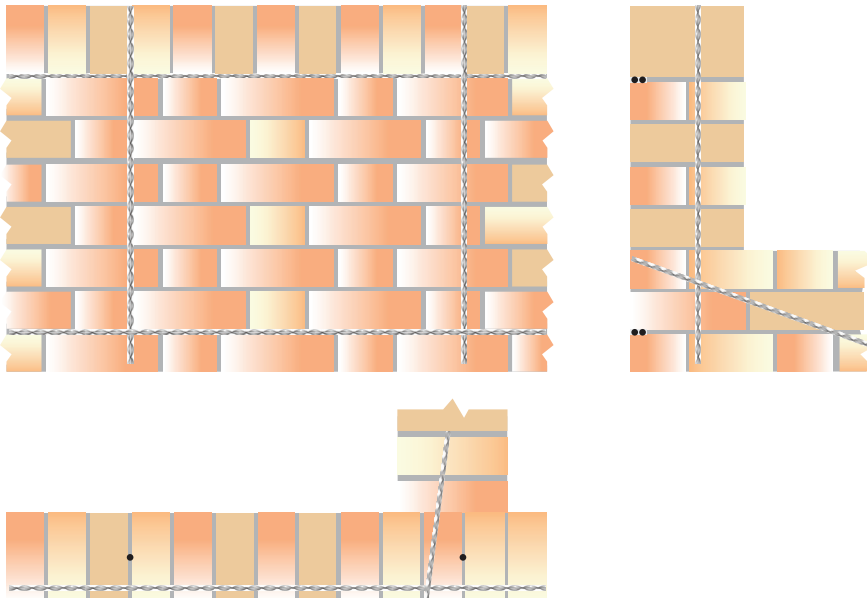
If you require specific advice on your project, please call the StrucSol technical help line 0116 2375082. We can supply a full support service which includes:

- ▮ Advice and assistance on all structural matters.
- ▮ Preparing repair proposals for specific projects.

### Method Statement:

1. Mark the positions for the Grout Tie holes on the top of the wall.
  2. Drill 14mm clearance holes (16mm if the Grout Tie is 450mm or longer) into the wall to the specified depth.
  3. Using a twin bladed wall chaser and vacuum attachment, cut slots into the brickwork to the specified depth and at the required vertical spacing. Ensure that no mortar is left attached to the exposed brick surfaces in order to provide a good masonry / grout bond.
  4. Clean out all dust and mortar from the slots and holes and thoroughly flush with water. Ensure the slots and holes are damp prior to commencing steps 9 and 10.
  5. Attach the required length of the Grout Tie Pinning Nozzle to the gun.
  6. Mix StrucSol HSGROUT using a power mixer and load into the Grout Tie Pointing Gun.
  7. Pump grout to fill the nozzle.
  8. Wind the Grout Tie into the nozzle and ensure that it is fully covered in grout.
  9. Insert the nozzle to the full depth of the drilled hole and pump the grout.
  10. Inject a bead of StrucSol HSGROUT, approx. 15mm deep, into the back of the slot using the Mortar Nozzle.
  11. Push the first 6mm StrucSol Ultrabar into the grout to obtain good coverage.
  12. Inject a second bead of StrucSol HSGROUT over the exposed StrucSol Ultrabar.
  13. Push the second 6mm StrucSol Ultrabar into the grout to obtain good coverage.
  14. Inject a third bead of StrucSol HSGROUT over the exposed StrucSol Ultrabar and iron it into the slot using a finger trowel. Inject additional StrucSol HSGROUT as necessary, leaving 10-15mm for new pointing.
  15. Point up the slots using a matching mortar, then make good all the holes at the surface and cracks using StrucSol TE resin or StrucSol Crack Filler and leave ready for decoration. To achieve a near perfect look, use StrucSol Stain Colour Matching mortar.
  16. Clean tools with clean, fresh water.
- ▮ *Pointing may be carried out as soon as is convenient after the StrucSol HSGROUT has started to gel.*

## SECURING STRAIGHT PARAPET WALLS IN SOLID MASONRY USING STRUCSOL ULTRABARS AND GROUT TIES (2 OF 2)



### SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise.

- A** Grout Ties are to be installed within the centre third of the width of the wall and at a horizontal spacing of 600mm. The Grout Ties are to extend at least 225mm into the main, or sound part of the wall.
- B** The parapet and supporting wall should be tied into abutting or cross walls where possible.
- C** StrucSol Ultrabars to be installed at a depth of 35-40mm and at a vertical spacing of 450mm (6 brick courses).
- D** Height of slot to be equal to full mortar joint height, (minimum 8mm). For thin mortar joint specifications refer to the StrucSol Technical Dept..
- E** If StrucSol Ultrabars are to be joined in a straight run, overlap the Ultrabars by a minimum of 500mm.
- F** Any fractures in the masonry within the 'beam zone' MUST be stabilised by crack-stitching, TE resin or replacement of the masonry.
- G** Depth of hole to be Grout Tie length +25mm.
- H** Any missing or very poor quality masonry MUST be replaced.
- I** If existing wall ties are defective in any way, additional StrucSol Remedial Wall Ties should be installed.
- J** In hot conditions, ensure the masonry is well wetted or primed to prevent premature curing of the StrucSol HSGrout due to rapid de-watering.

The above specification notes are for general guidance only and StrucSol reserve the right to amend as necessary.