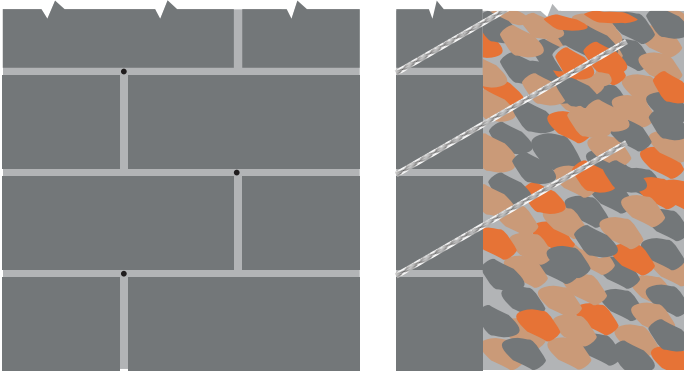


## HIDDEN REPAIR OF STONE-FACED RANDOM STONE WALLS USING GROUT TIES THROUGH MORTAR JOINTS



### Recommended Tooling

- ▣ For drilling: SDS rotary hammer drill 650 / 700w.
- ▣ For mixing StrucSol HSGrout: SDS Rotary percussion 3-jaw chuck drill with mixing paddle.
- ▣ For insertion of Grout Ties: Grout Tie Pointing Gun.
- ▣ 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 holes on the outer face of the wall.
  2. Drill 14mm clearance hole (16mm if the Grout Tie is longer than 450mm) at the required location through the brick face of the wall and into the back-up material to the specified depth. To avoid marking the stone faces, the hole should be drilled through the perpendicular mortar joint between two adjacent stones. The hole should be angled upwards to pass through the upper stone and then continue into the back-up material.
  3. Clean out all dust from the hole and thoroughly flush with water. Ensure the slot is damp prior to commencing step 7.
  4. Attach the required length of the Grout Tie Pinning Nozzle to the gun.
  5. Mix StrucSol HSGrout using a power mixer and load into the Grout Tie Pointing Gun.
  6. Pump grout to fill the nozzle.
  7. Wind the Grout Tie 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.
  9. Make good all the holes at the surface 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.
  10. Clean tools with clean, fresh water.
- ▣ *Pointing may be carried out as soon as is convenient after the StrucSol HSGrout has started to gel.*

## SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise.

<b>A</b>	Grout Ties are to be installed at an angle of 30° to 40° to allow sufficient fixing in the stone facing.
<b>B</b>	The density of the ties will depend upon the conditions, of the masonry and the loading it is expected to withstand. In general, the density should not be less than 2.5 ties / m <sup>2</sup> (900mm x 450mm).
<b>C</b>	The depth of the fixing into the back-up material MUST be sufficient to provide a secure connection (prior testing may be required).
<b>D</b>	Depth of hole to be Grout Tie length +25mm.
<b>E</b>	In hot conditions, ensure the masonry is well wetted or primed to prevent premature curing of the StrucSol HSGrout due to rapid de-watering.
<b>F</b>	Do not use StrucSol HSGrout 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 StrucSol HSGrout.

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

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Please always wear the appropriate safety and protective clothing when installing fixing and anchor products. Always observe the necessary Health & Safety guidelines.

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The above information is given in good faith, and may be subject to alteration at any time without prior notification.