

REPAIR OF BRICK QUOINS ON RANDOM STONE WALLS USING GROUT TIES AND STRUCSOL ULTRABAR (1 OF 2)

Recommended Tooling

- ✦ For cutting slots 40mm deep or over: Twin-bladed cutter with a vacuum attachment.
- ✦ For drilling: SDS rotary hammer drill 650 / 700w or diamond core drill.
- ✦ For mixing StrucSol HSGrout: 3-jaw chuck drill with a mixing paddle.
- ✦ For injecting the StrucSol HSGrout, use the StrucSol Crack-stitching Gun and StrucSol Stainless Nozzle.
- ✦ For installation of the Grout Ties: StrucSol Grout Tie Pointing Gun, StrucSol Grout Tie Pinning Nozzle.
- ✦ To flatten the pointing, use the StrucSol Finger Trowel.
- ✦ For Injection of the StrucSol Crack Filler: A 400ml Mastic Gun is required.
- ✦ PPE Clothing and Protection.

General Notes

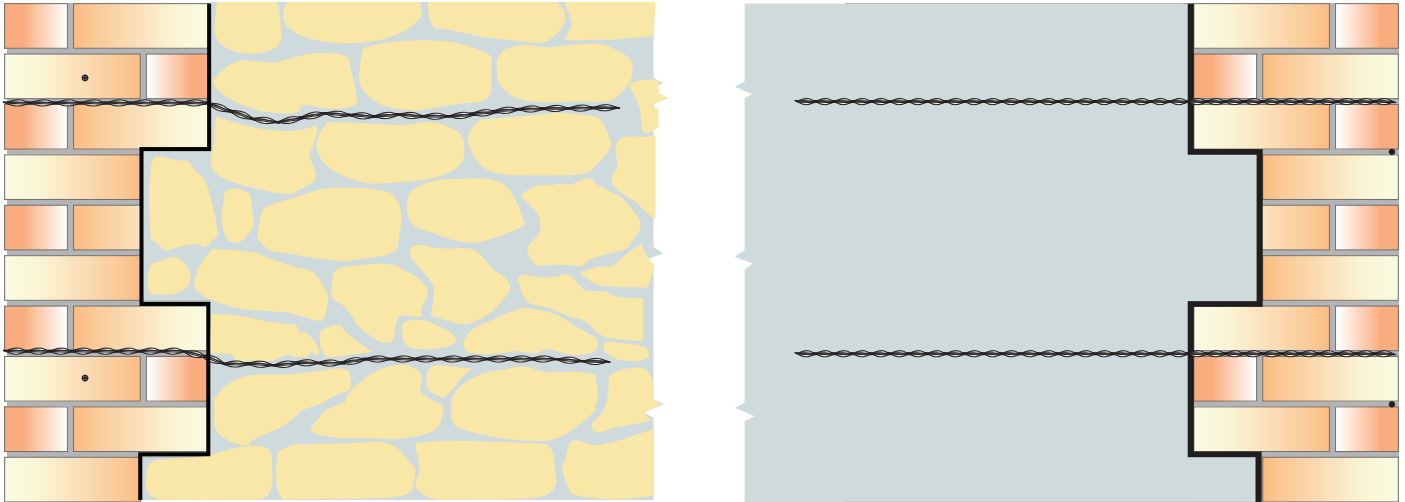
If you require specific advice on your project, please call the StrucSol technical help line 0116 2375082. We can supply a full support service which includes:

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

Method Statement:

1. For the Grout Ties, mark the positions for the holes on the outside face of the wall.
 2. Drill a 16mm clearance hole at the required location through the brick quoin and into the back-up material to the required depth.
 3. For the StrucSol Ultrabars, using a twin bladed wall chaser, cut horizontal slots into the mortar joints to the specified depth and at the required vertical spacing. Once into the random stone, follow the mortar joint between the stones in as straight a line as the stones allow. Make sure that no mortar is left in the cut slots in order to give an excellent bond.
 4. Remove all dust and thoroughly flush with water. Make sure the slots are damp prior to injecting the StrucSol HSGrout.
 5. Attach the required length of the Grout Tie Pinning Nozzle to the gun.
 6. Mix StrucSol HSGrout cementitious grout using a StrucSol paddle (+3-jaw chuck drill) and put into the StrucSol Crack-stitching Gun.
 7. Pump grout to fill the nozzle.
 8. Screw the Grout Tie into the nozzle and ensure that it is fully covered in grout.
 9. Insert the nozzle to the full length of the drilled hole and pump the grout.
 10. In the horizontal slots, inject a bead of StrucSol HSGrout, approx. 10mm deep into the back of the slot using the Mortar Nozzle.
 11. Push the 6mm StrucSol Ultrabar into the grout to obtain good coverage.
 12. Inject a second 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.
 13. 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.
 14. Clean tools with clean, fresh water.
- ✦ *Pointing may be carried out as soon as is convenient after the StrucSol HSGrout has started to gel.*

REPAIR OF BRICK QUOINS ON RANDOM STONE WALLS USING GROUT TIES AND STRUCSOL ULTRABAR (2 OF 2)



SPECIFICATION NOTES

A	StrucSol Grout Ties and StrucSol Ultrabar to be installed at a vertical spacing of 450mm.
B	StrucSol Grout Ties and StrucSol Ultrabar to extend at least 500mm past the joint between the quoin and wall.
C	Depth of hole to be Grout Tie length +25mm.
D	StrucSol Grout Ties are to be installed within the centre third of the wall.
E	Depth of slot into masonry to be 35-45mm.
F	Height of slot to be equal to full mortar joint height, (minimum 8mm). For thin mortar joint specifications refer to the StrucSol Technical Help Line.
G	In hot conditions, ensure that the masonry is well wetted or primed to prevent premature curing of the StrucSol HSGrout due to rapid de-watering. Ideally additional wetting of the holes and slots should be carried out just prior to inserting the Grout Ties and StrucSol Ultrabar.
H	Do not use StrucSol HSGrout if the air temperature falls below 5°C, or if ice starts to develop around the affected area.
The above specification notes are for general guidance only and StrucSol reserve the right to amend as necessary.	