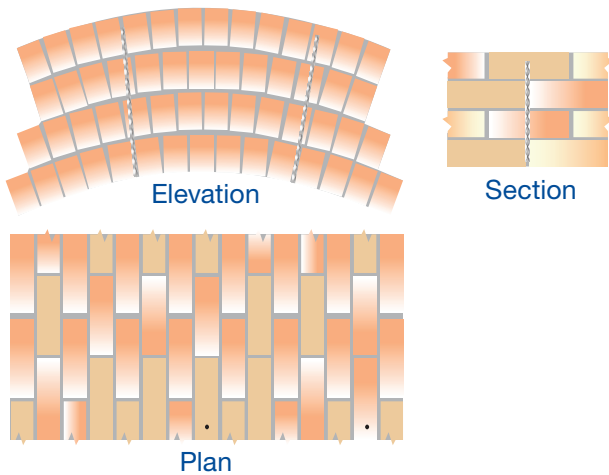


## MASONRY ARCH PINNING OF SEPARATED BRICK RINGS, THROUGH BRICK FACES USING GROUT TIES



### Recommended Tooling

- ▣ For drilling: SDS Rotary hammer drill 650 / 700w.
- ▣ For mixing StrucSol HSGrout: 3-jaw chuck drill with mixing paddle.
- ▣ For insertion of Grout Ties: Grout Tie Pointing Gun + Grout Tie Pinning Nozzle.
- ▣ 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 locations for the pins onto the underside of the arch at the required spacing.
2. Drill 14mm clearance holes (16mm if the Grout Tie is longer than 450mm) to the required depth and at the specified spacing.
3. Clean out ALL dust from the hole and thoroughly flush with water. Ensure the hole is damp or primed prior to commencing step 8.
4. Attach the required length of Grout Tie Pinning Nozzle to the gun.
5. Mix cementitious grout 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 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.
10. Clean tools with clean, fresh water.

- ▣ *If there is a lot of movement in the arch, then the ties will have to be installed in phases. After each phase, the ties should be left for 24 hours for the grout to achieve initial set. After 24 hours continue with the next phase.*
- ▣ *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>	Nominal spacing between lines of Grout Ties to be 450mm.
<b>B</b>	Nominal spacing between Grout Ties along lines to be 450mm.
<b>C</b>	Depth of hole to be Grout Tie length +25mm.
<b>D</b>	Where arch rings are badly delaminated and / or brickwork is very loose, the Grout Ties will have to be installed in phases. In this case consideration should be given to using extra ties to help stabilise the brickwork prior to installing the first phase of Grout Ties.
<b>E</b>	In hot conditions, ensure the masonry is well wetted to prevent premature curing of the StrucSol HSGrout due to rapid de-watering. Ideally additional wetting of the slot should be carried out just prior to injecting the StrucSol HSGrout.
<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 slot MUST be thoroughly damp or wetted 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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