

MASONRY ARCH CIRCUMFERENTIAL BEAM END FIXING USING STRUCSOL ULTRABAR (1 OF 2)

Recommended Tooling

- ✦ For cutting slots more than 40mm deep: Twin-bladed cutter with vacuum attachment.
- ✦ For drilling: SDS Rotary hammer drill 650 / 700w.
- ✦ For mixing StrucSol HSGrout: 3-jaw chuck drill with mixing paddle.
- ✦ For injection of StrucSol HSGrout: Applicator gun + nozzle.
- ✦ For Injection of the StrucSol Crack Filler: A 400ml Mastic Gun is required.
- ✦ PPE Clothing and Protection.

General Notes

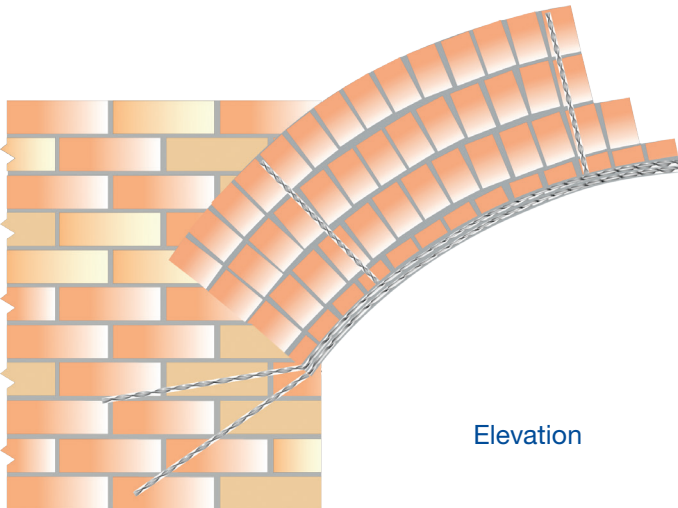
If you require specific advice on your project, please call the StrucSol technical help line 0116 2375082. We can supply a full support service which includes:

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

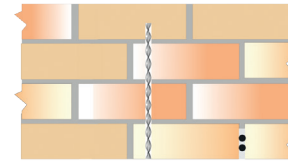
Method Statement:

1. 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.
 2. On either side of the arch, drill two 14mm clearance holes to the required depth. One hole should be angled upwards and the other downwards and angled left & right at an angle of approximately 30 degrees (IE 60 degrees between holes).
 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 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. Insert the nozzle to the full depth of the drilled hole and pump the grout to fill the hole. Maintain the grouting pressure to ensure that all voids are filled with grout.
 8. Bend the StrucSol Ultrabar to the correct shape and insert the end into the full depth of the grout filled hole.
 9. Continue to fix the other StrucSol Ultrabar as above until all of the ends have been fixed.
 10. 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.
 11. Clean tools with clean, fresh water.
- ✦ *Pointing may be carried out as soon as is convenient after the StrucSol HSGrout has started to gel.*
 - ✦ *For structural bridge or tunnel repairs refer to StrucSol Technical Dept..*

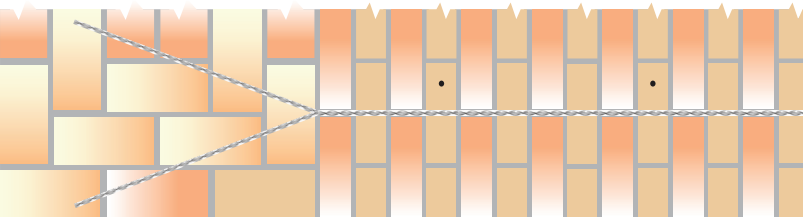
MASONRY ARCH CIRCUMFERENTIAL BEAM END FIXING USING STRUCSOL ULTRABAR (2 OF 2)



Elevation



Section



Plan

SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise.

- A** Depth of StrucSol Ultrabar anchorage holes to be between 250mm and 450mm.
- 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.
- C** 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.