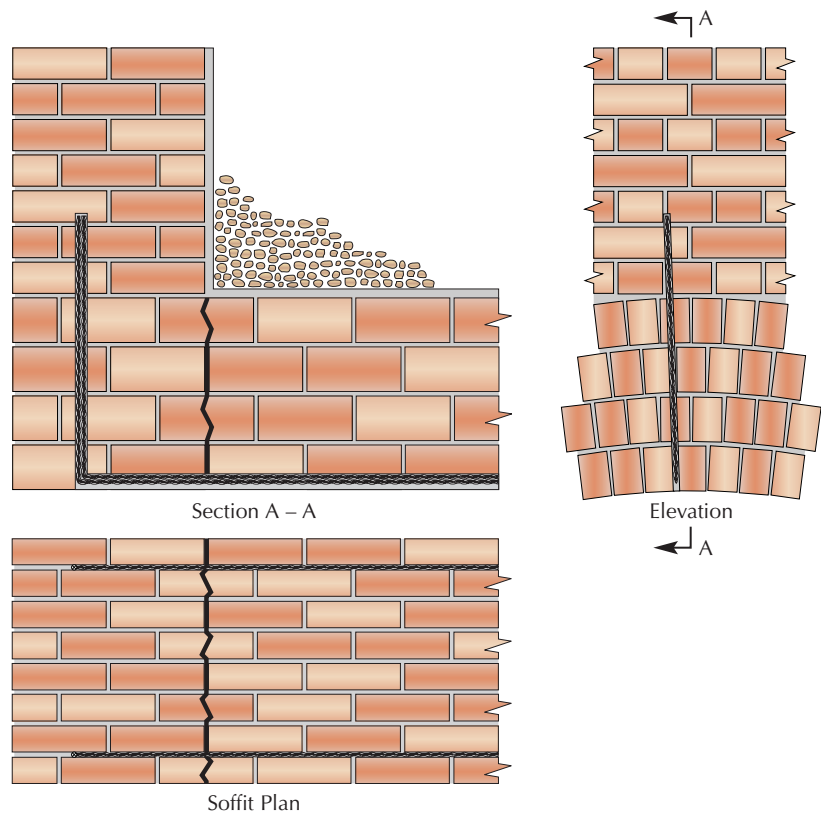


Masonry Arch Soffit Crack Stitching using HeliBars

Method Statement

- Using a twin-bladed, diamond-tipped wall chaser and vacuum attachment, cut slots into the mortar joints on the underside of the arch, to the specified depth and at the required spacing. Ensure that **NO** mortar is left attached to the exposed brick surfaces in order to provide a good masonry/grout bond.
- Where required drill 14mm clearance holes to the required depth at the ends of the slot.
- Clean out ALL dust from the slots and holes and thoroughly flush with water. Where the substrate is very porous or flushing with water is inappropriate, use Helifix WB Primer. Ensure the slots and holes are damp or primed prior to commencing steps 7 and 8.
- Attach the required length of CemTie pinning nozzle to the gun.
- Mix HeliBond cementitious grout using a power mixer and load into the Helifix pointing gun kit HD.
- Pump grout to fill the nozzle.
- 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.
- Change the pinning nozzle for a mortar nozzle and inject a bead of HeliBond grout, approx. 15mm deep, into the back of the slot.
- Bend the HeliBar to the correct shape and insert the end into the full depth of the grout filled hole. Push the remainder of the HeliBar into the bead of grout in the slot to obtain good coverage.
- Inject a second bead of HeliBond grout over the exposed rod and iron into the slot using a finger trowel. Inject additional HeliBond as necessary, leaving 10-15mm for new pointing.
- Point up the open slot with a matching mortar and make good the crack using an appropriate Helifix bonding agent depending on the width of the crack.

For structural bridge or tunnel repairs refer to the Helifix Technical Department.



Recommended Tooling

For drilling: SDS rotary hammer drill 650/700w.

For mixing HeliBond: 3-jaw-chuck drill with mixing paddle.

For cutting slots up to 40mm deep: Hilti DC-SE 20 wall chaser or similar with vacuum attachment.

For injection of HeliBond into slots: Helifix Pointing Gun Kit HD with mortar nozzle.

For injection of HeliBond into holes: Helifix Pointing Gun Kit HD with pinning nozzle.

For smoothing pointing: Standard finger trowel.

General Notes

If your application differs from this repair detail or you require specific advice on your particular project, call the Helifix Technical Sales Team on 020 8735 5222.

Our Technical Department can provide you with a full support service including:

- Advice, assistance and recommendations on all structural repair matters
- Devising and preparing complete repair proposals for specific situations
- An insurance-backed warranty via our Approved Installers scheme

SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A** Nominal spacing between crack stitches to be 450mm.
- B** Depth of slot to be approx. 40mm and full width of the mortar joint.
- C** In hot conditions ensure the masonry is well wetted or primed to prevent premature curing of the HeliBond due to rapid de-watering. Ideally additional wetting of the slots and holes, or priming with Helifix WB primer, should be carried out just prior to injecting the HeliBond grout.
- D** Do not use HeliBond when the air temperature is +4°C and falling or apply over ice. In all instances the slots and holes must be thoroughly damp or primed prior to injection of the HeliBond grout.

The above specification notes are for general guidance only and Helifix reserves the right to amend details/notes as necessary.