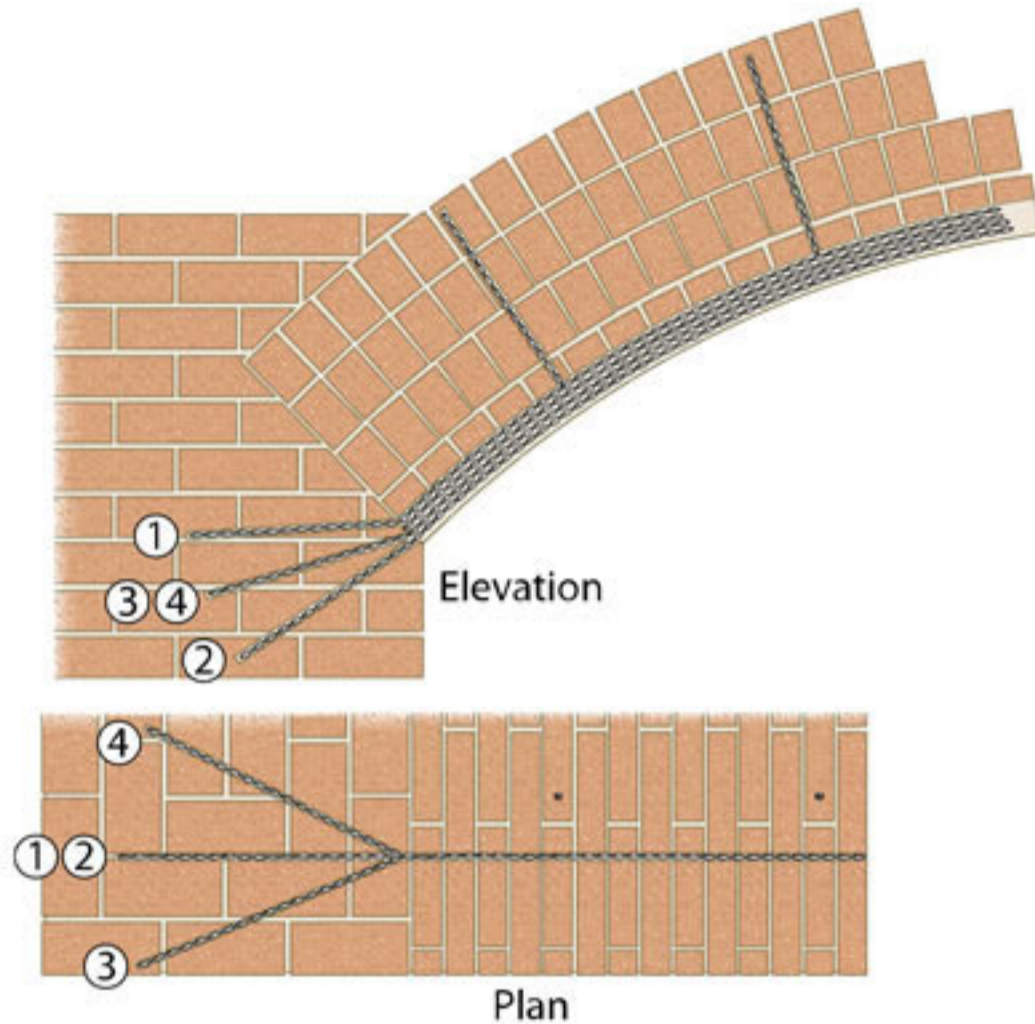


Masonry Arch Circumferential Beaming using Thor Heliforce Bars - End Fixing Detail

Method Statement

1. Drill 14mm clearance holes to the required depth in line with the slot (Bar 1 – top, Bar 2 – bottom) angled apart from the line of the slot to give an angle of about 30° between them.
2. If more than 2 Thor Heliforce bars are specified, drill 14mm clearance holes to the required depth outwards from the line of the slot (Bar 3 – left, Bar 4 – right) angled apart from the line of the slot to give an angle of about 60° between them.
3. Clean out all dust from the holes and thoroughly flush with water. Use Thor Primer to seal the faces of the hole where substrate is very porous or water can't be used.
4. Attach the appropriate length of Grout Tie pinning nozzle to the grout gun.
5. Mix the Thor WHO Grout constituents together, as directed, in the bucket provided using a powered mixing paddle. Additional liquid should not be added.
6. Load the grout into the grout gun and pump grout to fill the nozzle.
7. Insert the nozzle to the full depth of the clearance hole and pump the grout to fill the hole. Maintain sufficient grouting pressure to ensure that all voids are filled with grout.
8. Insert the pre-bent end of the Heliforce Bar into the grouted hole before proceeding with the rest of the bar installation. Repeat with the ends of the remaining Heliforce Bars.



SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A. Depth of the Heliforce Bar anchorage holes to be 450mm.
- B. **Climatic Conditions.** In hot conditions Thor WHO 60 grout should be stored and mixed in the shade to maximize the working life of the mixed product. As Thor WHO 60 grout is a cementitious product it should not be used when the temperature is +4°C and falling.

RECOMMENDED TOOLING

- A. 14mm dia. drill bit of appropriate length.
- B. Power mixing paddle.
- C. Thor Grout gun and injection nozzle.
- D. Grout Tie pinning nozzle of appropriate length.
- E. 2.5kg SDS hammer drill

General Notes

These notes are for general use only. Should these notes not apply to your specific project, please consult the Thor Helical Remedial Technical Support Team on 0870 6006164. Thor Helical Remedial are able to offer a full project design service by either our in house design team or our National network of Approved installers. In most instances this service is provided free of charge. Projects completed by our network of approved installers offer the benefit of a fully underwritten insurance backed guarantee.