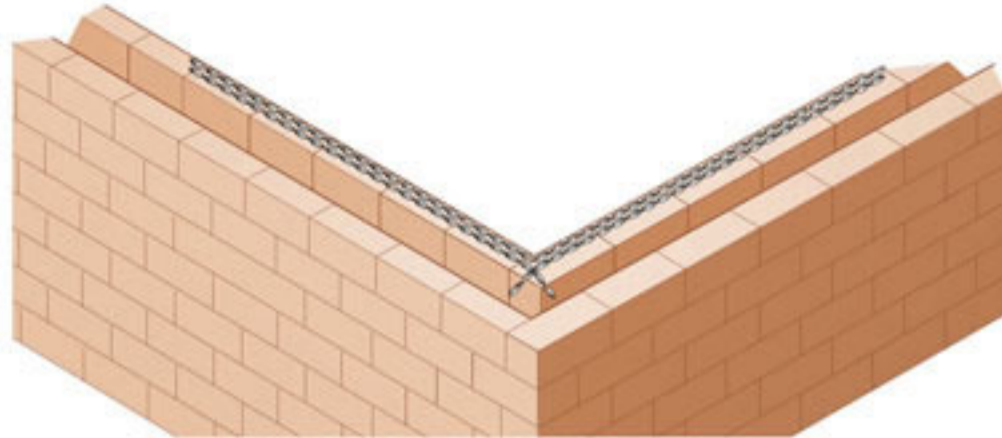


Creating Load Bearing Beams in Cavity Walls using Thor Heliforce Bars, Internal Corner Repair Detail

Method Statement

1. Use a twin bladed, diamond tipped wall chasing unit to cut out horizontal slots in a mortar bed as required by the specification. For clean, dust free cutting use a vacuum attachment on the chasing unit. Use a power/hand chisel to continue slots into the internal corner.
Note. When installing bar in a mortar bed joint ensure all the mortar is removed from the joint. Failure to do so will result in reduced effectiveness of the repair.
2. Drill 12mm dia. holes from within the slots to almost the full thickness of the masonry, remove all dust and flush with water.
3. Remove all dust and debris from the slot and thoroughly soak with clean water. Use Thor Primer to seal faces of slot where substrate is very porous or water can't be used.
4. Cut the required number of Thor Heliforce bars to the appropriate lengths, ensuring they fit into the prepared slots.
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 Thor WHO Grout into the Thor Crack Stitch Gun.
7. Fill the drilled holes with grout using a short Grout Tie pinning nozzle.
8. Inject a 10-15mm thick bead of grout into the back of the prepared slot. Insert the Thor Heliforce bar pushing the bar to the back of the slot to ensure full embedment in the grout.
9. Inject a further 10mm thick bead of grout.
10. Insert the second Thor Heliforce bar and cover with a third 10mm thick bead of grout and compress the grout and bar composite into the slot using a suitable finger trowel.
11. The grout should be finished approx. 10mm below the surface of the brickwork to allow the application of a colour matched mortar pointing to finish the repair.
12. **Note.** Re-pointing can be commenced when grout has begun to set.
Note. Thor WHO Grout has an accelerated gelling time. Should the grout become too stiff to inject, empty the contents of the grout gun back into the mixing bucket and re-mix using the powered mixing paddle without adding additional liquid. Reload the injection gun and proceed as before.



SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A. Finished depth of slot: 40-55mm.
- B. Overlaps in Thor Heliforce bars should be a minimum of 500mm at staggered centres.
- C. Masonry fractures within the "beam zone" must be stabilised as appropriate (e.g. backfilling with Thor Epoxy resin, deep repointing etc.)
- D. Any missing or very poor quality masonry must be replaced.
- E. If existing wall ties are defective in any way additional remedial wall ties should be installed.
- F. Multiple chords should be installed starting at the top and working down to the bottom
- G. **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 $+4^{\circ}\text{C}$ and falling.
- H. It is not essential that the Heliforce bars are installed in the horizontal bedjoints and may be installed in the face of the masonry blocks.

RECOMMENDED TOOLING

- A. Twin bladed wall chasing unit with vacuum attachment.
- B. Thor Grouting gun and injection nozzle.
- C. Power mixing paddle.
- D. Suitable finger trowel for mortar finishing.
- E. 12mm dia. drill bit of appropriate length.
- F. Grout Tie pinning nozzle of appropriate length.

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.