

## Bay Window Restraint Scheme in Solid or Cavity wall using Thor Heliforce Bar & Thor Restraint Ties

### Method Statement

1. Use a twin bladed diamond tipped wall chasing unit to cut out horizontal slots in the mortar bed as the specification notes require. For clean dust free cutting use vacuum attachment to Chasing unit.

**Note.** When installing grouted bar in mortar bed joint, ensure the joint is removed in its entirety to the specified depth, so that the top and bottom faces of the brick are clearly visible within the slot. Failure to follow this procedure will result in reduced effectiveness of the repair.

2. Remove all dust and debris from the slot and seal all faces of the slot using Thor primer.

3. Cut the required number of Thor Heliforce bars to the appropriate length, ensuring that they fit into the prepared slot.

4. Mix the Thor Flexi Grout components together in the bucket provided, using a power mixing paddle, until both components are thoroughly blended. Additional fluids should not be added.

5. Load the Thor Flexi Grout into the Flexi Grout gun.

6. Inject a 10-15mm thick bead of grout into the back of the prepared slot. Insert the Thor Heliforce bar into the slot pushing the bar to the back of the slot to ensure displacement of the grout.

7. Install a further 10mm bead of Thor flexi grout

8. Install the second Thor Heliforce bar into the slot and cover with a third 10mm bead of Thor Flexi grout. Compact the grout and bar composite into the slot using a finger trowel or similar tool.

9. The Grout should finish approximately 10mm from the surface of the brickwork, allowing for application of mortar pointing to finish the repair.

**10. Note.** Pointing can be commenced immediately grout has been trowelled.

**Note.** Thor Flexi Grout has an accelerated setting time, should the grout become too stiff to inject, empty the contents of the gun back into the mixing bucket. Re-agitate the mixture using the Paddle mixer, without adding additional fluid. Then reload the Injection gun and proceed as before.

11. Mark the horizontal and vertical positions of the joists onto the external masonry.

12. Insert the Thor Heliforce restraint tie into the tie support tool, attached to an SDS drill. Fire the tie home into the joist. Load testing can be carried out at this point.

13. Apply resin stop sleeve to Tie end, pushing the stop 90mm into the outer leaf masonry.

14. Load the Thor Poly Resin into the delivery gun, attach the Nozzle and extension tube. Inject the Thor Resin over the end of the Tie to complete.

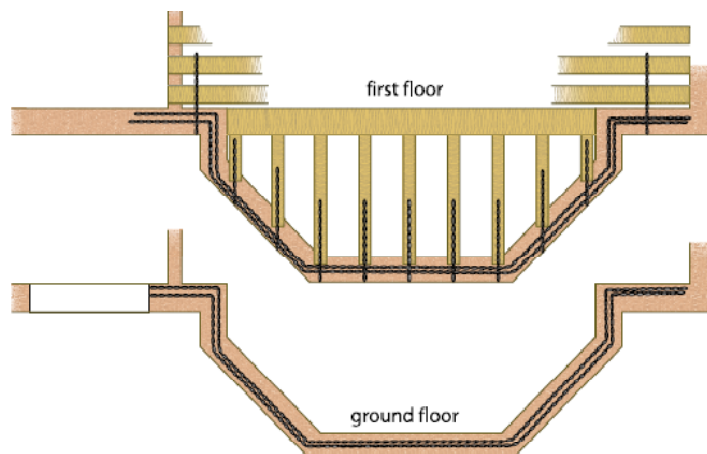
### Specification

The following criteria are to be used unless specified otherwise:

- A. Finished depth of slot to be approximately 45-55mm
- B. Finished thickness of slot to be no less than the thickness of the mortar bed
- C. The top and bottom cords of each masonry beam should be separated by as much vertical spacing as is practical up to a maximum vertical spacing of 900mm.
- D. Overlaps in Thor HR bars should be a minimum of 500mm at staggered spacings.
- E. Masonry fractures located within the cords of the beam must be backfilled with Thor epoxy non shrink resin.

These notes are for general use only. Should these notes not apply to your specific project, please consult the Structured Designs Team who can adapt it as necessary. Structured Designs are able to offer a full project design service by our in house design team.

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