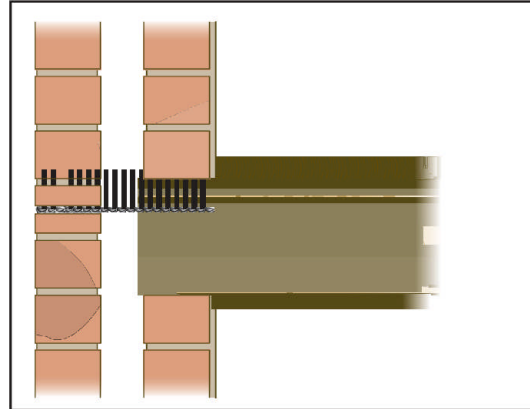




Restraining a Bowed Cavity Wall using Thor HR Restraint Tie into Joist Ends

Method Statement

1. Mark the horizontal and vertical positions of the joists onto the external masonry.
2. Drill a 12mm diameter hole through the brickwork, ensuring the pilot holes line up with the internal joists.
3. Insert the Thor HR restraint tie into the tie support tool, attached to a drill. Fire the tie home into the joist. Load testing can be carried out at this point.
4. Apply resin stop sleeve to Tie end, pushing the stop 90mm into the outer leaf masonry.
5. Load the Thor Poly Resin into the delivery gun, attach the nozzle and extension tube. Mix the resin as described on the packaging. Inject the Thor Resin over the end of the Tie to complete.
6. Make good pilot holes at surface level using brick dust and resin, or colour matched mortar.



FIXING TEST DATA END GRAIN TIMBER

Embedment	75mm
Fixing Load	1.6kN

Test provide indicative values of the tie performance. The couplet test produces results of a conservative nature compared to actual wall tests

SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A. Where joist ends have softened due to prolonged contact with moisture, drive the Tie in until good resistance is felt.
- B. Tie should be load tested prior to applying the resin to the tie end.

RECOMMENDED TOOLING

- A. 2.5Kg SDS Hammer drill
- B. 12mm drill bit of appropriate length
- C. Thor HR Restraint Tie tool of appropriate length
- D. Thor HR poly Resin and applicator gun with extension nozzle

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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.