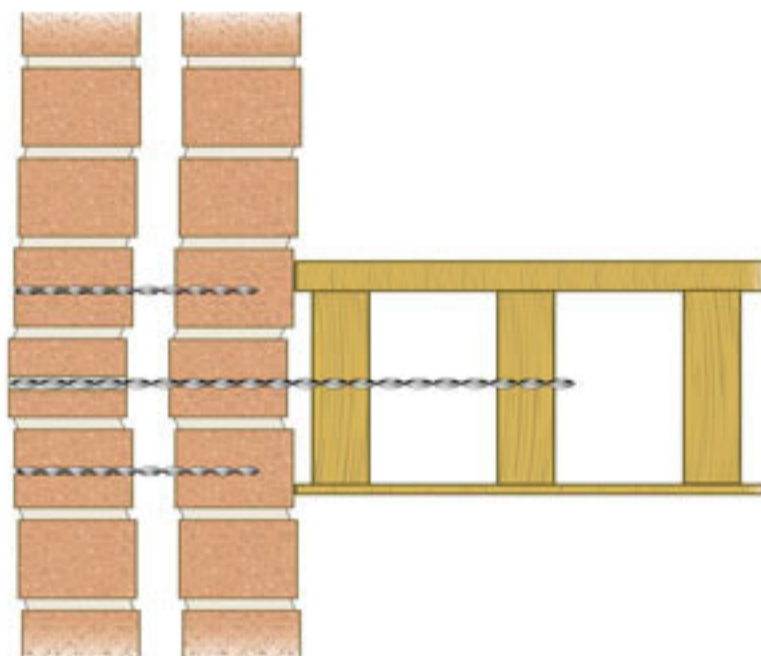


# Restraining a Bowed Cavity Wall using Thor Lateral Restraint Ties into Joist Sides

## Method Statement

1. Mark the fixing positions of the Thor LRT fixings and lift the floorboards in the associated area and check for services (e.g. gas, electric, water, data cabling etc.) and other obstructions. Adjust fixing positions as necessary.
2. Drill a 12mm clearance hole through the masonry to hit the centre third of the joist and remove all dust.
3. Screw the Thor LRT key onto the correct length Thor LRT fixing and insert into an SDS drill.
4. With an operative inside viewing and assisting the fixing of the restraint, drive the restraint in (rotation only) slowly winding through the joists as specified to leave the end of the tie recessed 10-15mm into the masonry.
5. Insert the resin stop sleeve over the tie end and push the stop 90mm into the brickwork.
6. Tensile load testing can be carried out at this stage if required.
7. Load the Thor Poly Resin into the applicator gun and attach the mixer nozzle and extension tube.
8. Inject the Thor Poly Resin over the end of the tie to completely fill the hole. If required, finish resin back from face of brickwork to allow application of a colour matched mortar.
9. Mark the positions of the Drive Fix Ties and drill pilot holes of the correct diameter from the face of the brickwork.
10. Install the Drive Fix Ties into the pre-drilled pilot holes using the Drive Fix Installation Tool and make good holes with a colour matched mortar.
11. Re-fix the floorboards securely fixing them with screws to the joists or replace with flooring grade plywood as required.



## FIXING TEST DATA SIDE OF TIMBER JOISTS

Joist Thickness	40mm	50mm	100mm
Fixing Load	10kN	14kN	17kN

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. Horizontal spacing of Thor LRT ties should not exceed 600mm.

## RECOMMENDED TOOLING

- A. 2.5kg SDS hammer drill
- B. Drill bits of appropriate diameters and lengths
- C. Thor LRT key
- D. Thor Poly resin applicator gun and extension tubes
- E. Thor Drive Fix Tie installation tool.

## 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.