

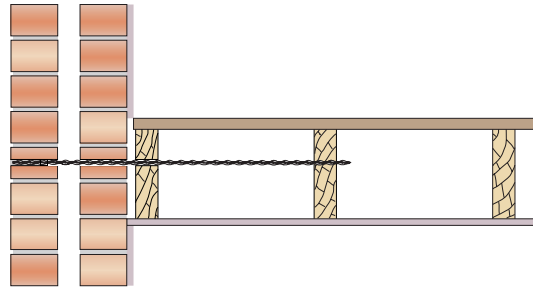
# Restraining a Bowed Cavity Wall using BowTies into Joist Side

RB02

## Method Statement

1. Mark the positions for the BowTie clearance holes on the external wall.
2. Drill the clearance hole (normally 12mm) through the masonry so as to penetrate the joist in the middle third of the timber away from the edges and continue through the first joist.
3. Clean out the hole to clear any dust or debris.
4. Insert the BowTie power support tool into an SDS rotary hammer drill and place the BowTie into the support tool.
5. Drive the BowTie into, and through, the second joist.
6. Place the sleeve over the tie and push it to the back of the hole in the outer leaf masonry (use the power support tool).
7. Inject Helifix PolyPlus Resin into the hole to fill it completely.
8. Allow the resin to gel (normally 15 to 20 minutes).
9. Make good all holes at the surface with brick dust or matching mortar or leave ready for any decoration.

**N.B. Ensure ceiling void is free of pipes and cables.**



## Recommended Tooling

For drilling and insertion of BowTies: SDS rotary hammer drill 650/700w.

For installation of BowTies: BowTie support tool.

For injection of PolyPlus resin: Applicator gun with nozzle.

## General Notes

If your application differs from this repair detail or you require specific advice on your particular project, call the Helifix Technical Sales Team on 020 8735 5222. Our Technical Department can provide you with a full support service including:

- Advice, assistance and recommendations on all structural repair matters
- Devising and preparing complete repair proposals for specific situations
- An insurance-backed warranty via our Approved Installers scheme

## SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A** BowTie penetration into the side grain of the timber joist must be a minimum of 50mm.
- B** The maximum horizontal spacing between BowTies is 600mm.
- C** The floor boards must be in sound condition and securely fixed to the joists. If any boards are rotten, then these must be replaced. Loose boards should be secured with nails/screws. If boards have been cut adjacent to the wall (eg for installation/access to services), then they may need to be replaced with ply boarding.

The above specification notes are for general guidance only and Helifix reserves the right to amend details/notes as necessary.