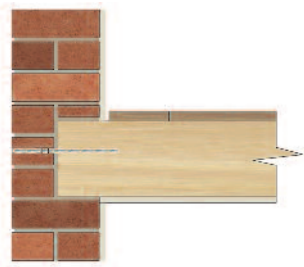


BowTie

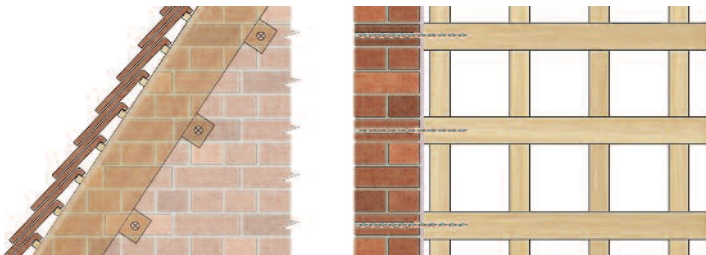
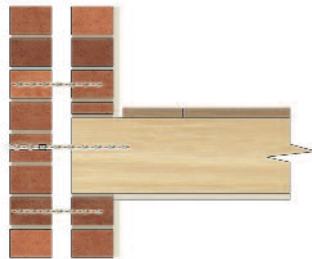
Remedial ties for tying masonry to timber joists



BowTie into joist end through a solid wall



BowTie into joist end through a cavity wall



Restraining gable walls using mini retrofit purlins and BowTies

Applications

- For connecting masonry walls to internal timber joists
- Standard BowTies are recommended when installing into joist ends

Features

- Quick, easy, non-disruptive external installation
- Self-tapping design – no splitting of timbers
- Effective in all common building materials
- Suitable for hardwood use
- Easily tested for security of fixing
- Fully concealed – no unsightly external plates



Over 50 standard repair specifications are available online, covering all common structural faults.
Relevant Repair Detail: RB04

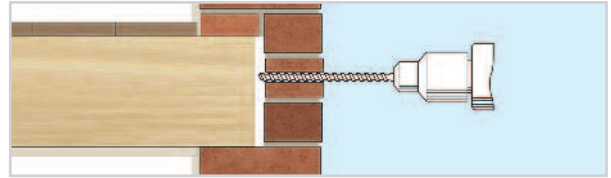
Scan the QR Code for full Product Information, Case Studies and downloadable Repair Details



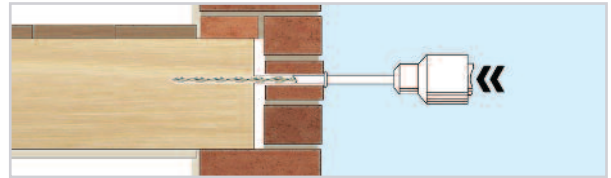
Drilling clearance hole for installing BowTie into joist end

Installation Procedures

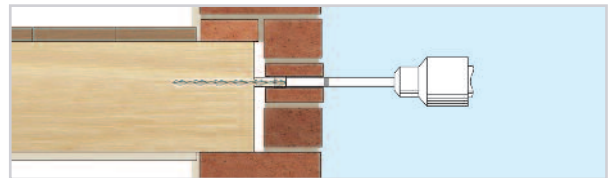
1. Mark the positions of the joists on the external wall.
2. Drill clearance holes (normally 12mm), **through the masonry only**, in line with the centre of the joists.
3. Clean out the hole to clear any dust or debris.
4. Fit the power support tool into an SDS rotary hammer drill and insert the BowTie.
5. Drive the BowTie (roto stop) into the joist to the required depth (75mm minimum).
6. Fit the sleeve over the tie and push it to the back of the hole in the masonry (use the support tool).
7. Inject Helifix EpoxyPlus resin into the hole to fill it completely.
8. Make good all holes at the surface with brick dust or matching mortar or leave ready for any decoration.



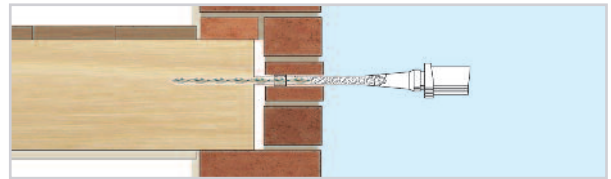
1. Mark the position of the joist centre on the external wall and then drill a clearance hole (normally 12mm) through the wall. Clean out the hole



2. Fit the BowTie Support Tool to an SDS rotary hammer drill, insert the BowTie and drive it into joist end to the required depth – at least 75mm



3. Fit the plastic sleeve over the BowTie and use the support tool to push it to the back of the hole in the masonry (in the outer leaf in a cavity wall)



4. Inject EpoxyPlus resin to fill the hole and bond the BowTie to the masonry and then make good

Technical Specifications

Material:	Austenitic stainless steel Grade 316 as standard (Grade 304 also available)
Diameter:	8mm standard (10mm available)
Length:	Thickness of the wall + any cavity + sufficient to drive 75mm minimum into the joist end
Standard lengths:	Cut lengths up to 500mm
Diameter of masonry clearance hole:	12mm
Fixing density:	Every joist in the affected area is to be secured
Bonding agent:	EpoxyPlus TE in masonry only
RECOMMENDED TOOLING	
For drilling clearance holes and insertion of BowTies:	SDS rotary hammer drill 650/700w with roto stop
For injection of EpoxyPlus resin:	Applicator gun and injection sleeve