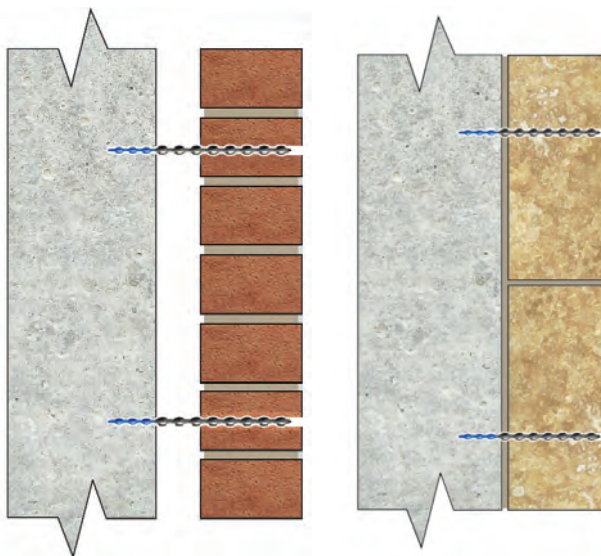


# DryFix Asymmetric Tie

Dry mechanical pinning and remedial tying system

## APPLICATIONS

- For securing relatively soft near leaf materials to hard far leaf materials, such as concrete or hard brick
- For pinning delicate masonry features
- The asymmetric tie has a longer outer section with a standard diameter and a shorter reduced diameter inner section



Over 100 standard repair specifications are available online, covering all common structural faults.

**Relevant Repair Details: WT29**



## FEATURES

- Requires no resin, grout or mechanical expansion
- Does not stress or fracture fragile substrates
- Quick, easy, concealed installation using the Power Driver Attachment
- Installed tie is recessed below face of masonry
- Highly economical with low installed costs
- Effective in most common building materials
- Leaves masonry virtually unmarked
- Usable in all weathers and temperatures
- Security of fixing in both leaves must be tested separately



For full product information, case studies and downloadable repair details go to:

[www.helifix.co.uk/products/remedial-products/dryfix-asymmetric-tie/](http://www.helifix.co.uk/products/remedial-products/dryfix-asymmetric-tie/) 1

## TECHNICAL SPECIFICATIONS

### DRYFIX ASYMMETRIC TIE

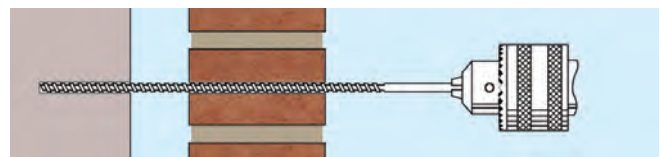
Material	Austenitic stainless steel Grade 304 (1.4301) or 316 (1.4401)
Diameter	Longer section is standard 8mm or 10mm diameter with a shorter reduced diameter section of 6.5mm or 8mm respectively
Length	Near leaf thickness + cavity width + required penetration into the far leaf less required penetration of the PDA
Standard lengths	155mm, 170mm, 195mm, 220mm, 245mm, 270mm, 295mm and 325mm – in boxes of 100
Diameter of pilot hole	Diameter of pilot holes to be ascertained on site, by conducting pull-out tests. These will determine diameter of tie and pilot holes required to comply with the specification
Depth of pilot hole	Length of DryFix + 25mm (Taking care to not penetrate through far leaf)
Minimum fixing density	In accordance with project specification or check with Helifix Technical Department
Bonding agent	None required

### RECOMMENDED TOOLING

For drilling pilot hole	Rotary percussion 3-jaw-chuck drill
For installing DryFix tie	Power Driver Attachment fitted to an electric hammer drill (SDS type)

### INSTALLATION PROCEDURES

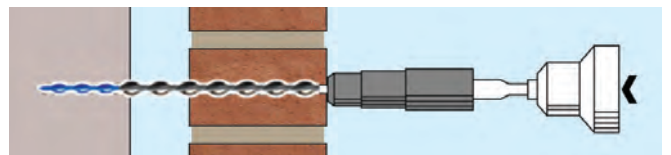
1. Mark the position for the DryFix tie on the face of the near leaf.
2. Drill an appropriate diameter pilot hole (depending on the density of near and far leaf materials) which must be evaluated, prior to commencement of the works, using a Helifix Load Test Unit. Drill through the near leaf and into the back-up substrate, to the predetermined depth, using an appropriate rotary percussion drill (3-jaw-chuck-type).
3. Fit the special patented DryFix Power Driver Attachment (PDA) insertion tool to an electric hammer drill (SDS type).
4. Load the wider diameter end of the DryFix tie into the PDA insertion tool.
5. Power-drive the tie into position until its outer end is recessed below the face of the near leaf by the insertion tool.
6. Make good the entry hole with matching materials.



1. Drill small pilot hole using rotary percussion drill, 3-jaw-chuck type.



2. Load tie into DryFix Power Driver Attachment fitted to SDS hammer drill.



3. Drive in tie until outer end is fully recessed below face of masonry.

**NOTE:** Some substrates, such as hard concrete and granite, are not suitable for Asymmetric Tie installation, due to the inability of the tie to cut into the material. Appropriately sized pilot holes for near and far leaves are essential for a successful tie. Too large, and the tie will 'push in', and too small, the tie will 'wedge', not cut into the substrate.