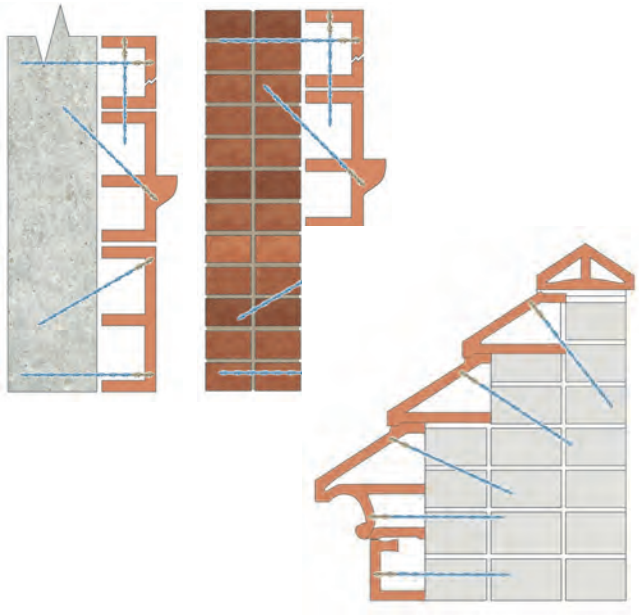
DryFix Terracotta Tie

Dry mechanical pinning and remedial tying system

APPLICATIONS

- Developed specifically to secure fragile terracotta facings and delicate decorations and features which have become loose or are suffering from stress fractures
- It has an 8mm diameter over the majority of its length with a short 10mm section at one end to grip the soft terracotta without enlarging the pilot hole



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

Relevant Repair Details: RDs WT14 to WT16

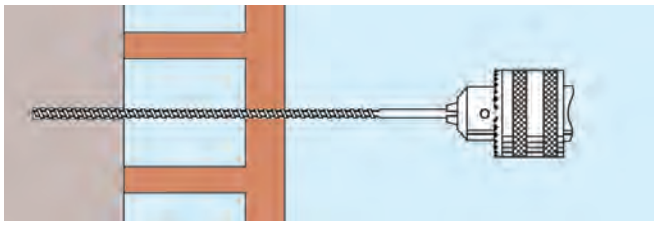
FEATURES

- Does not stress or fracture fragile substrates
- Requires no resin, grout or mechanical expansion
- Needs only a small diameter pilot hole
- Quick, easy, non-disruptive installation using the Power Driver Attachment
- Installed tie is recessed below face of terracotta
- Highly economical with low installed costs
- Leaves masonry virtually unmarked
- Usable in all weathers and temperatures

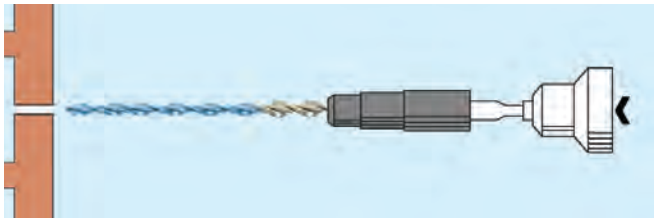
INSTALLATION PROCEDURES

1. Mark the position for the DryFix ties on the terracotta.
2. Drill an appropriate diameter pilot hole which must be evaluated, prior to commencement of the works, using a Helifix Load Test Unit. Drill through the terracotta and into the back-up substrate, to the predetermined depth, using an appropriate rotary percussion drill (3-jawchuck-type).
3. Fit the DryFix Power Driver Attachment to an electric hammer drill (SDS type).
4. Load the larger 10mm diameter end of the DryFix asymmetric Terracotta Tie into the insertion tool.
5. Power-drive the tie into position until its outer end is recessed below, or flush with, the face of the terracotta by the insertion tool.
6. Make good the entry hole with matching materials.

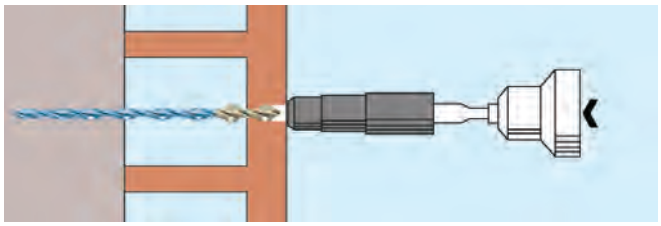
NOTE: Some substrates, such as hard concrete and granite, are not suitable for Terracotta Tie installation, due to the inability of the tie to cut into the material. Appropriately sized pilot holes for terracotta and backup material are essential for a successful tie. Too large, and the tie will 'push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



1. Drill a small pilot hole through the terracotta and into the backup material using a rotary percussion drill (3-jaw-chuck- type).



2. Load the tie into the insertion tool fitted to an electric hammer drill (SDS type).



3. The tie is power driven into position (with SDS hammer drill) until the outer end of the tie is automatically recessed below the face of the terracotta. Make good the entry hole with matching materials. In thin walled terracotta, the tie may need to be left flush with the surface.

TECHNICAL SPECIFICATIONS

DRYFIX TERRACOTTA TIE	
Material	Austenitic stainless steel Grade 304 (1.4301) or 316 (1.4401)
Diameter	8mm/10mm (Asymmetric)
Length	Near wall thickness + cavity width + required penetration into the far leaf less required penetration of the PDA
Standard lengths	245mm, 270mm, 295mm, 325mm, 350mm and 400mm – in boxes of 100
Diameter of masonry pilot hole	5mm – 6.5mm (determined by on-site testing)
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)

DryFix tie being power-driven into pilot hole

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