

DryFix

Dry mechanical pinning and remedial tying system





Over 50 standard repair specifications are available online, covering all common structural faults.

Relevant Repair Details: RP01, RT01, RT04, RT05, RT06, RT08, RT09

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



Applications

- Versatile replacement wall tie
- For securing multiple layers of masonry
- For pinning delicate masonry features
- For pinning render and thin panels
- Seismic retrofit of masonry walls

Features

- Requires no resin, grout or mechanical expansion
- Quick, easy, non-disruptive installation using the Power Driver Attachment
- Installed tie is recessed below face of masonry
- Highly economical with low installed costs
- Effective in all common building materials
- Leaves masonry virtually unmarked
- Usable in all weather, temperature and environmental conditions
- Far and near leaf security of fixing easily proof tested



DryFix tie being power-driven into pilot hole

PRODUCT SHEET - PS/DF01

Installation Procedures

- I. Mark the position for the DryFix tie on the face of the near leaf.
- 2. Drill an appropriate diameter pilot hole (depending on density of far leaf material) through the near leaf and into the back-up substrate, to predetermined depth, using a rotary percussion drill (3-jaw-chuck-type).
- 3. Fit the special DryFix PDA insertion tool to a rotary hammer drill (SDS type).
- 4. Load the DryFix tie into the 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.



I. Drill small pilot hole, typically 5mm in diameter, 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

Technical Specifications

Material:	Austenitic stainless steel Grade 316 as standard (Grade 304 also available)
Diameter*:	8mm standard (10mm and Asymmetric Dryfix available)
Cross sectional area:	10mm² (15mm²)
Stock Lengths:	50 — 400mm
Required Length:	Near leaf thickness less 10mm + cavity width + far leaf penetration, typically 70mm (Refer to Installation Details for further instruction)
Minimum Fixing Density:	Project Specific
Diameter of pilot hole:	Diameter of pilot hole (typically 5mm) to be ascertained on site
Depth of pilot hole:	Length of Dryfix + 10mm
Bonding agent:	None required
* NOTE D:	

* NOTE Diameter measures from fin edge to fin edge.

Characteristic Performance Data

AS/NZS2699.1 Type B remedial classification (8.0mm tie)*					
Test Type (Connection type)	Cavity Width (mm)	Axial Stiffness (kN/mm)	Axial Strength (kN)	Residual Strength (kN)	Classification*
Type B Remedial Tie (Drive-in connection to brick at both ends of th	75 e tie)	0.61	1.902	2.321	Earthquake Heavy Duty, for cavity 75mm

* NOTE Standard AS/NZS2699.1 type B classification does not strictly apply. AS/NZS2699.1 type B pertains to veneer tie classification only. Remedial cavity wall tie tests performed in accordance with AS/NZS2699.1 type B in the absence of any other suitable remedial seismic standard. Classification derived from laboratory testing using selected materials. See the Helifix Remedial Wall Tie sheet (PS/DFRTRTi01) and related test materials for further details. Site conditions, including base materials and cavity widths, can vary widely and published loads and classifications are to be used as guide values only.

RECOMMENDED TOOLING	
For drilling pilot hole:	Rotary percussion 3-jaw-chuck drill
For installing DryFix tie:	Power Driver Attachment fitted to a rotary hammer drill (SDS type).
For proof testing:	Helifix Load Test Unit

Related Publications

Technical:	Remedial Stainless Steel Wall Ties PS/DFRTRTi01
Drilling and Load Testing:	Drilling and Testing Guide PS/DT01
Health and Safety:	Safe Installation Guide
Relevant Repair Details:	RP01, RT01, RT04, RT05, RT06, RT08 and RT09



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