INSTALLATION

ANZ
RT02

Wall tie retrofit using RetroTies

Product	Description	Code
RetroTie	Stainless steel helical remedial wall tie	HRT
EpoxyPlus TE	Thixotropic pure epoxy resin	HTE

Method Statement

1. Mark the points for RetroTie installation on the face of the wall.*
2. Drill a 5mm diameter pilot hole (subject to confirmation on site) through the near leaf and to the required depth into the back-up substrate.*
3. Widen the hole through the near leaf to 12mm diameter.
4. Clean the hole of spoil using a brush and airjet.
5. Attach the support tool to a light-weight SDS hammer drill set to a slow speed and hammer only.
6. Load the RetroTie into the support tool, insert through the near leaf, and drive home into the back-up substrate.
7. Place the end of the nozzle of the resin applicator over the exposed end of the RetroTie in the near leaf. Masking tape may be placed around the hole to protect the surface of the wall from resin spillage. Cloth may also be wrapped around the nozzle to help seal the opening during injection and protect the wall face from spillage.
8. Inject resin until the hole is filled.
9. Allow the resin to cure and make good.

NOTE. Avoid leaning or pushing heavily on the drill during operation to ensure the accuracy of the hole's diameter and to limit spalling of the near leaf as the drill breaks into the cavity.

CAUTION. Always locate, identify and isolate any electrical, water or gas services which may be present in the wall or the wall cavities and can pose a safety risk before drilling or cutting. Always take the necessary safety precautions. Use electrical safety gloves and wear appropriate footwear and eyewear.

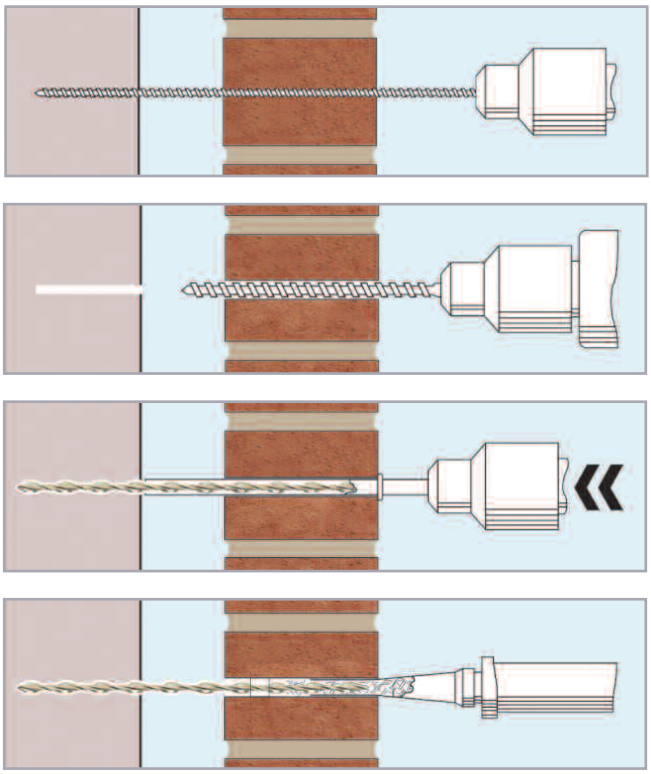
DRILLING GUIDE

Far Leaf Material	**Far Leaf Pilot** *(mm)*	**Penetration into Far Leaf** *(mm)*
Aircrete	None	75–90
Timber Stud	None	55
Clay Brick	5–6	70
Concrete Block	5–6	70
Concrete	6–6.5	35

NOTE. The smallest possible diameter pilot hole should be used wherever possible. All figures quoted are indicative dependent on the exact nature of the substrate. Testing may be undertaken on site using the Helifix Load Test unit.

GENERAL NOTES

- Product details available from Helifix.
- Contact Helifix if your application differs from this repair detail or you require specific technical information.



RECOMMENDED TOOLING

For drilling ..... Rotary percussion drill 650/850w

For cleaning the clearance hole ..... Air jet and brush

For injection of EpoxyPlus resin ..... Applicator gun with nozzle

For installation of RetroTie ..... SDS rotary hammer drill 650/850w and Support Tool

*SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

A. RetroTies to be spaced in accordance with building code requirements to suit site conditions and location. Relevant Australasian standards include AS3700, NZS1170.5 and NZS4210.

B. Depth of pilot hole to be RetroTie length + 10mm.

C. RetroTie length to equal:
Minimum 3/4 of near leaf thickness + cavity width + far leaf penetration depending on material, typically 70mm
Refer to the Drilling Guide for further guidance.

D. Ties may be installed from either side of the wall.

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

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