

BRT07

# Replacing wall ties in a brick / solid concrete wall using DryFix

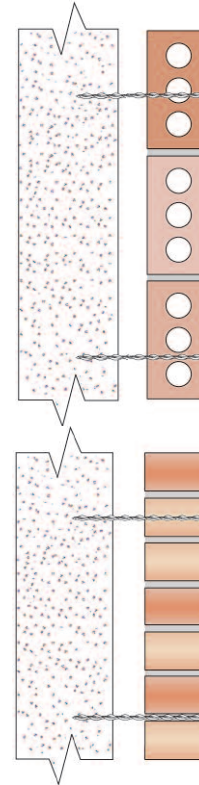
Product	Description	Code
DryFix	Stainless steel dry pinning system	HDF

## METHOD STATEMENT

1. Mark the locations for the DryFix ties onto the face of the wall at the required spacing.\* Wherever possible, the holes should be drilled directly into the masonry, but they may also be driven into the existing mortar provided that this is strong and in good condition.
2. Drill a 6mm Ø pilot hole through the near brick leaf and into the concrete substrate to the specified depth using a light-weight electric drill.\* A rotary percussion drill, 3-jaw-chuck type, should be used as standard. An SDS-type hammer drill set to a slow speed and light hammer may be preferred if the masonry is sufficiently dense to withstand the heavier SDS hammer action. A 6.5mm Ø pilot hole size may be preferred if the concrete substrate is particularly hard.
3. Attach a Helifix Power Driver Attachment to an SDS hammer drill set to a slow speed and light hammer only. (DryFix ties are self-tapping and will work themselves into the wall following the hammer action of the drill.)
4. Load a DryFix tie into the Power Driver Attachment.
5. Support the power driver attachment with one hand, while using the other to work the drill, and drive the DryFix tie into the pre-drilled pilot hole to approximately 10mm beyond the surface of the near leaf.
6. Make good the hole using either a mixture of sand, cement and oxide colouring to match the original surrounding brick surfaces or a silicone sealant coated with brick dust or drillings.

**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.



## RECOMMENDED TOOLING

- For drilling .....Rotary percussion or SDS rotary hammer drill 650/850w  
 For installation of DryFix .....SDS rotary hammer drill and DryFix Power Driver Attachment

## \* Specification Notes

The following criteria are to be used unless specified otherwise:

- A. DryFix ties are to be installed at 600mm vertical and horizontal centres into continuous brickwork. Ties are to be installed at 300mm centres around openings and articulation joints.
- B. The ResiTie or RetroTie systems may be used as alternatives to the DryFix system if drilling through the brick face is unacceptable and the existing mortar is weak or in very poor condition and unable to support a dry connection.
- C. The ResiTie, RetroTie or Asymmetric DryFix systems may be used as alternatives to the DryFix system if the pilot hole size required for DryFix installation into the concrete substrate greatly exceeds the pilot hole size required for optimal DryFix connection into the near leaf.
- D. Depth of pilot hole to be DryFix tie length + 10mm.
- E. DryFix length to equal:  
*Near leaf thickness less 10mm + cavity width + far leaf penetration*  
 Typically, ties should be sufficiently long to penetrate 35-50mm into the concrete depending on its hardness, with harder concretes requiring less penetration.

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

## GENERAL NOTES

- Helifix product details available at [www.helifix.com.au](http://www.helifix.com.au).
- If your application differs from this repair detail or you require specific technical information, call Helifix on 1300 66 70 71.