

INSTALLATION

ANZ
ST04

Creating a movement joint between a new party wall and an existing masonry wall using StarTies

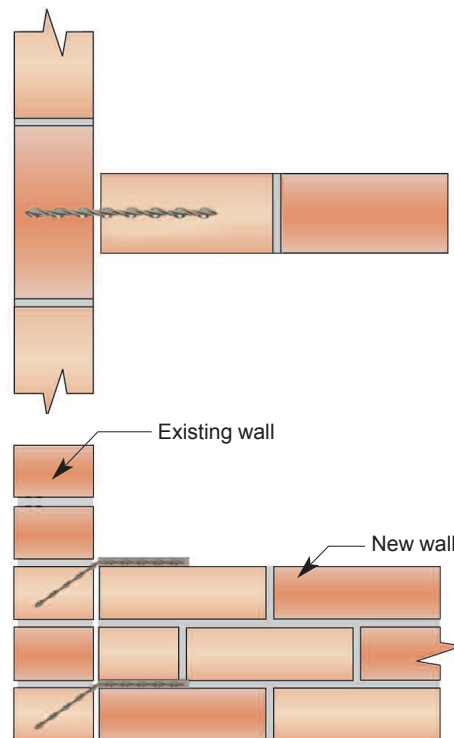
Product	Description	Code
StarTie	Stainless steel new build wall tie	HST

Method Statement

1. Drill a 5mm \varnothing pilot hole into the existing wall to the specified depth using a light-weight rotary percussion drill.*
Wherever possible, the hole should be drilled directly into the masonry, but it may also be drilled into the existing mortar if this is strong and in good condition. The hole may be drilled perpendicular to the face of the wall or at an angle. This choice will be determined by the degree of alignment between the mortar joints in the existing wall and new leaf. If they are in alignment (as depicted), and the joint in the existing wall is of poor quality, then the hole should be drilled at an angle to ensure that the StarTie penetrates solid masonry.
2. Attach the Helifix StarTie support tool to an SDS hammer drill set to a slow speed and light hammer only. (StarTies are self-tapping and will work themselves into the wall following the hammer action of the drill.)
3. Load the StarTie into the support tool.
4. Drive the StarTie into the pre-drilled pilot hole.
5. If required, bend the exposed end of the StarTie down using the support tool so that it lies parallel to the new mortar bed.
6. Fit the movement sleeve over the exposed end of the StarTie and then bed complete tie assembly into the mortar of the new wall. Ensure that no mortar comes in contact with the end of the StarTie covered by the sleeve as this must remain free to move.

NOTE. Avoid leaning or pushing heavily on the drill during operation to ensure the accuracy of the hole's diameter.

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 drillingRotary percussion drill 650/850w
For installation of StarTieSDS rotary hammer drill 650/850w and support tool

*SPECIFICATION NOTES

The following criteria are to be used unless specified otherwise:

- A. Pilot hole size may be increased to suit site conditions. A 6mm or 6.5mm hole may be required to allow StarTie to penetrate hard materials (e.g. hard extruded or concrete bricks).
- B. StarTies to be installed at a maximum 300mm vertical spacing.
- C. StarTie length to equal:
Existing leaf penetration + new leaf embedment
Typically, ties should be sufficiently long to penetrate 35-95mm into the existing leaf depending on its hardness, with harder materials requiring less penetration. Typically, 60-70mm penetration is to be achieved when installing into common, dry-pressed or extruded brickwork. The sleeved portion of the StarTie should extend at least 150mm to 200mm into the new wall.
- D. Depth of pilot hole to equal tie penetration.

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

GENERAL NOTES

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