

Power Driver Attachment

Applications

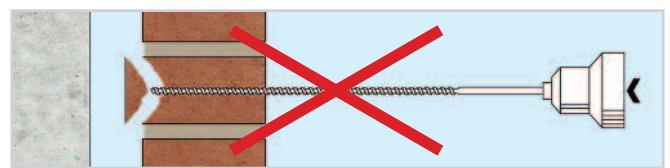
- For installing the DryFix pinning and tying system; InSkew warm roof batten fixing; TurboFast timber/MDF to masonry fixing

The Power Driver Attachment (PDA), fitted to an SDS hammer drill, ensures the rapid easy installation of DryFix, InSkew and TurboFast ties and fixings. There are two sizes, with the larger version for DryFix and TurboFast, of which variants can recess ties below the outer surface, making their full concealment very simple. The compact model is for the controlled installation of InSkews.

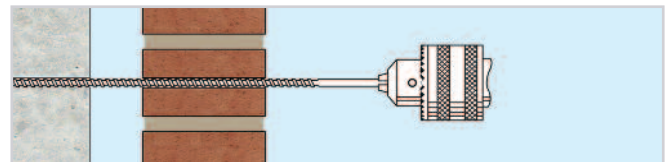
Advice Notes for DryFix Installation

DryFix can be installed through the brick or the mortar. If the mortar is of good enough quality, this will avoid any damage to the brick, but it must be tested at various locations as mortar strength can vary throughout a structure. If unsure of the mortar quality then install DryFix through the brick as it leaves only a small entry hole, which can be concealed with drilled-out brick dust. By installing through the brick a reliable connection can be guaranteed. Ties should be installed about 3cm from the end of the brick to avoid the frog.

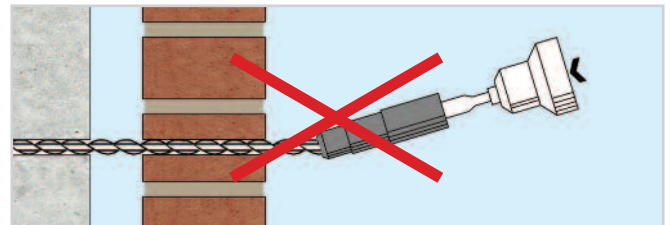
- Drill gently using a rotary percussion drill (3-jaw-chuck type). Do not use a heavyweight rotary hammer drill as this will damage the masonry, causing spalling of the internal face of the outer leaf.
- Stop the drill while pushing it across the cavity to avoid the drill bit whipping and bending as this will cause alignment problems for the tie. Restart the drill when contact is made with the surface of the far leaf masonry.
- Keep the drill bit perpendicular to the masonry for standard applications.
- Fit the power driver attachment to an SDS hammer drill and load the DryFix tie. Hold on to the power driver attachment during installation.
- Ensure the hammer drill is set to hammer only.
- Allow the hammer drill to drive the tie into the masonry. Simply maintain a steady connection between the tie and the installation tool.



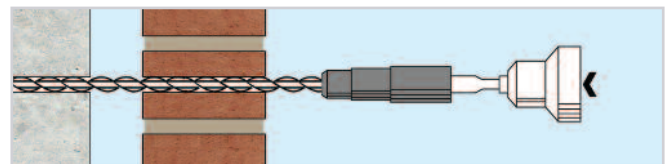
A. Do NOT use SDS type drill to drill the pilot hole



B. Use rotary percussion drill (3-jaw-chuck-type) to drill pilot hole



C. Do NOT drive tie in at an angle



D. Drive tie in perpendicular to the wall

- Do not push on the hammer drill as this may bend the tie and prevent the drill from developing full power and producing a reliable connection.
- Drive the tie slowly across the cavity to avoid whip as this may cause misalignment and bending.
- Ensure the tie locates the pilot hole in the inner leaf and drive in slowly until the outer end of the tie is recessed below the face of the masonry.
- Installation is very fast but attempting to go too quickly will lead to alignment and connection problems.
- For long DryFix ties a nozzle extension can be used.

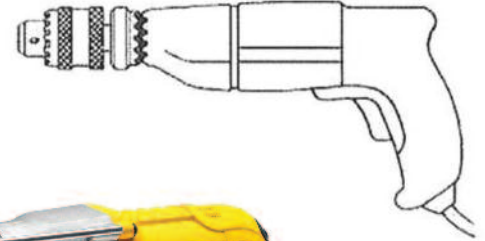
Drilling Notes

Correct drilling techniques are essential to ensure efficacy of remedial wall ties, and to minimise aesthetic and structural damage to the property under repair. Helifix requires the use of Rotary Percussion drill bits for drilling pilot / clearance holes wherever possible. This keeps spalling of the rear side of the outer leaf masonry, in cavity situations, to a minimum. Any spalling of the brick / block rear will reduce the effectiveness of the wall ties installed.

Rotary Percussion Drill (3 Jaw Chuck)

This type of rotary percussion drill is designed to provide a rotary drilling action, which may be amplified by a light 'tapping' action. This light percussion improves the drilling rate but is gentle and permits fragile masonry substrates such as brick, terracotta, mortar, hollow concrete block to be drilled without damage, particularly when the drill breaks through the material into a void or cavity. This kind of drill will commonly have a chuck speed up to 2500 rpm with 10-40,000 percussive 'taps' per minute.

NOTE: Not suitable for use with any Helifix Power Driver Attachments



Example: DeWalt Percussion DWD525KS

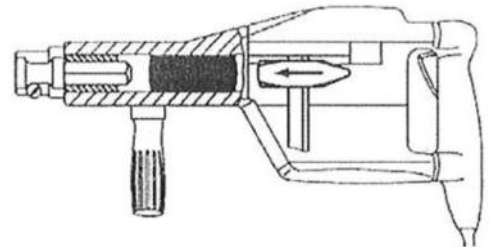
Rotary Hammer Drill

The rotary hammer drill, SDS type, is always used to drive the Helifix tie into position with either a 'DryFix' Power Driver Attachment for masonry stabilisation, or a Helifix Power Support Tool for masonry re-facing.

The SDS hammer drilling system is only used for drilling pilot holes into dense materials such as reinforced concrete, some limestone and sandstone and for blind holes in strong material. Sometimes the method may be used to drill mortar. The drilling of all holes should be tried first with the 3-jaw-chuck type drilling machine and the SDS method should be seen as a "last resort". It should not be used into cavity masonry as significant breakout is likely to occur in the cavity. A 3-jaw-chuck adaptor fitted to an SDS machine must NEVER be used in place of an rotary percussion drill.

Typically, SDS type Rotary Hammer Drills have a chuck speed range of 600-800 r.p.m. with approx. 4,000 hammer blows/minute. There are a wide variety of tools available.

NOTE: Fitting a 3-jaw chuck attachment to a rotary hammer drill does NOT alter its performance – it is still an SDS type drill!



Example: Bosch Rotary 2-28 DFX



SUSTAINABLE STRUCTURAL SOLUTIONS

The Mille, 1000 Great West Road,
Brentford, London TW8 9DW

Tel: 020 8735 5200 • Fax: 020 8735 5201 • email: info@helifix.co.uk

www.helifix.co.uk

May 2015