

Easi-Fix® Neoprene Wall Tie



Description

The Easi-Fix Neoprene wall tie is the reliable double mechanical precision pre-torqued tie that sets high standards in replacement wall ties. Its unique, special precision limited torque nut combined with the precision modified 304 stainless steel bar provides a fixing system which permits:

- Rapid continuous fixing to both inner and outer leaf's in under ten seconds
- Ensures inner leaf fixes to pre-torqued level before outer leaf engages
- Pre-torque setting reliably produces pull out figures of over 2.5 kilo newtons
- Independent pull testing of the inner leaf after fixing into the wall allows any or every tie to be pull tested on the inner leaf after initial fixing if required
- Can be easily fitted using a power drill for fast, efficient low-cost installation

The combination of the special precision limited torque nut and the precision modified bar means that initial rotations of the nut are inhibited by the bar. This allows the bar to rotate and the inner neoprene sleeve to engage with and tighten onto the inner wall leaf.

At the correct pre-designed torque, the in-built resistance offered by the special nut and bar combination is overcome, allowing the nut to rotate down the bar and tighten the outer neoprene sleeve to similarly engage with and tighten into the outer wall leaf.

The quality of fix for the inner leaf can be readily proven by the use of an industry standard pull tester to the bar before the external leaf is fixed. After pull testing has been carried out the outer leaf can be tightened.

Features

- Rapid fixing replacement wall tie
- Fast and reliable installation
- Pull out figures of over 2.5 kilonewtons (kN)
- Independent pull testing after every inner leaf fixing
- Reliable design and product

Selection of Tie Lengths

To determine the required cavity wall tie length simply add the penetration depths of each leaf to the width of the cavity and round up to the 25mm increment (e.g. brick to brick with a 50mm cavity).

External Leaf 100mm – 10mm recess from the external face = 90mm + Cavity 50mm + Internal leaf minimum embedment depth 55mm = 195mm – use a 200mm tie.

Cavity Wall Tie Spacing

Masonry wall ties - 900mm x 450mm staggered centres in a domino 5 pattern (2.5 ties/m²)

Additional ties should be placed at 300mm centres (225mm for blockwork) adjacent to open reveals.

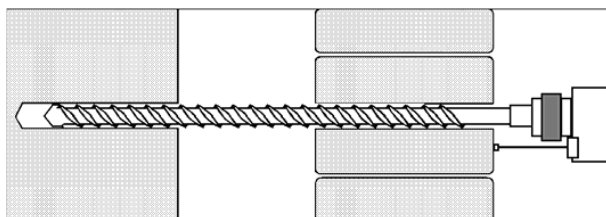
Technical Specification

Material	304 Stainless Steel, Neoprene
Diameter	9.8mm
Standard Lengths	200mm, 213mm, 225mm
Pilot Hole Depth	Selected tie length plus 20mm
Pilot Hole Diameter	10mm
Fixing Tool	Easi-Fix Auto Key

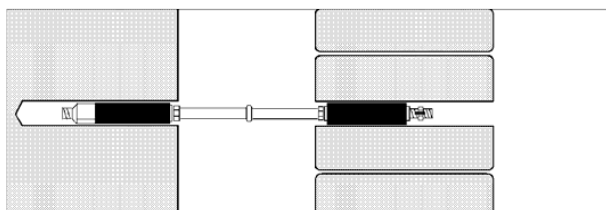
Typical tensile failure in accordance with BSI DD140

Base Material	Compressive Strength N/mm ²	Tie Anchorage (kN)
Common facing brick	20 – 27.5	4.56
Deep frogged brick	20 – 27.5	4.00
Dense concrete block	7 – 10.5	4.56
Lightweight block	3.5 – 7.3	1.73

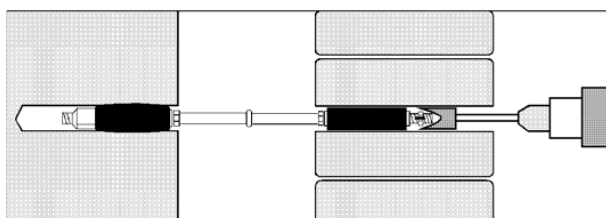
Installation Method



1. Drill a 10mm hole to a minimum depth of 55mm into the inner leaf. Remove dust and debris.



2. Insert the Easi-Fix Auto Key into a drill and fit over special brass torque nut. Run nut slowly down the bar until resistance is met - the tie is now fixed. Do not over tighten. Ideally drills should be run at slow speed and mid to high torque setting for the most efficient fix.



3. To pull test a tie, fix the Easi-Fix Auto Key over the special brass nut and turn anti clockwise two revolutions only. This will release the outer leaf and allow the inner leaf which is still fixed to be pull tested. After pull testing has been completed re-tighten the outer leaf. Make good with matching mortar or mastic.

Note: When fixing the Easi-Fix Neoprene Wall Tie initial resistance will be met (internal leaf will be fixed) then give way temporarily when the nut moves down the bar to engage the outer leaf. This is normal and resistance will again be met whilst the outer leaf is tightening. It is important not to overtighten wall ties.