

Technical Data Sheet

Easi-Fix Double Mechanical Wall Tie

Description and Use

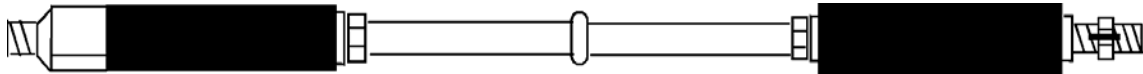
Unique design concept - a Pre-Torqued tie of the highest quality
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'Easi-Fix' is the reliable Double Mechanical Precision Pre-Torqued Tie that sets new standards in replacement wall ties. Its unique special coated black stainless steel precision limited torque nut combined with the precision modified stainless steel bar provides a fixing system which permits:

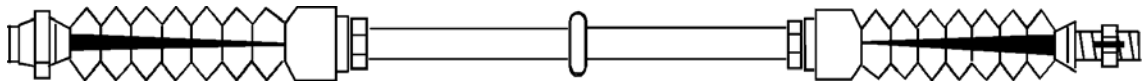
- * Rapid continuous fixing to both inner and outer leaves in under ten seconds.
- * Ensures inner leaf fixes to pre-torqued level before outer leaf engages
- * Pre-torque setting reliably produces pull out figures of over 2.5 kilo newtons.
- * Independent pull testing of the inner leaf AFTER fixing 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 or a single manual tool for fast, efficient low cost installation.

Easi-Fix Ties are available in the following Standard Designs and Styles.

Neoprene / Neoprene - Code PEFNN



Brass / Brass - Code PEFBB



Base material	Compressive strength (N/mm ²)	Tie anchorage (Kn)	
		PBB	PNN
Common facing brick	20-27.5	4.55	4.56
Deep frogged brick	20-27.5	3.32	4.00
Dense concrete block	7-10.5	3.12	4.56
Lightweight block	23-3.5	1.78	1.73
Motor bed joint 1:1:6			2.65

All Permagard wall ties are precision fabricated in Type 304 corrosion resistant stainless steel.

Installation Procedure

How does it all work? - Simply and reliably

The combination of the special stainless steel 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 expander 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 expander to similarly engage with and tighten onto the outer wall leaf. The quality of fix for the inner leaf can be readily proven by loosening the outer expander through the use of a manual key and securing an industry standard pull tester to the bar. After pull testing has been carried out the outer leaf can be re-tightened.

Fixing Instructions

1. Drill a 10mm or 12mm hole to a minimum depth of 55mm into the inner leaf. Remove dust and debris.
 2. Insert special 'Easi-Fix' key into drill and fit over special black 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 high torque setting for the most efficient fix. For example a Bosch GSR 9.6 V Cordless Drill should be operated at Speed 1 and Torque Setting 5 (maximum).
 - 3 To pull test a tie fix the manual outer key over the special black torque 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 with the manual key. Make good with matching mortar or mastic.
- * To put ties in manually fix the manual key onto the special nut and turn clockwise until tie is fitted. Initial resistance will be met 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. When fitted remove the manual key.

Availability

Double Mechanical

Neoprene / Neoprene (Code PEFNN)

Brass / Brass (Code PEFBB)

(outer leaf cannot be released after fixing)

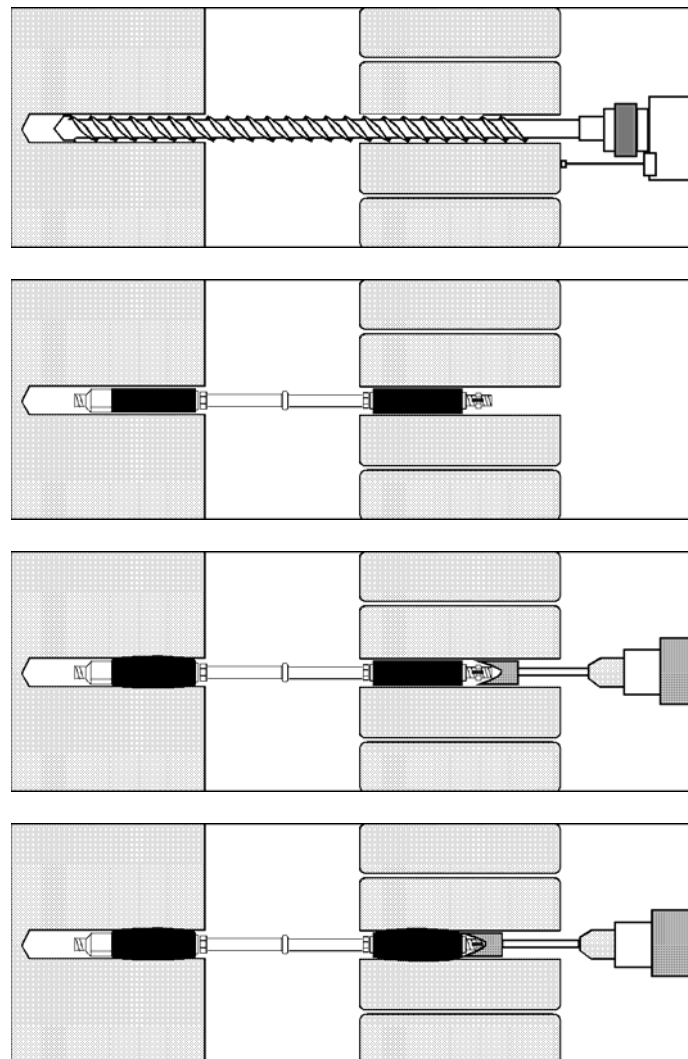
Standard lengths

(200mm & 213mm) Ex stock

Other lengths 3/4 days delivery

Standard diameters available 10 mm and 12mm

Packing 100 per box / 500 per outer box



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