

# Resin Grouted Remedial wall ties

## Description

Resin grouted Thor Helical wall ties and pins have a suitable for use in wall tie replacement schemes that use thixotropic resins and grouts. The spiral twist ties have longitudinal helical flutes that maximise the physical interlock between the wall tie and the adhesive.

Proven through independent testing programs and 20 years of use, resin grouted replacement wall ties are identified in B.R.E. Digest 329 (Table 5) as being suitable for use in un-perforated masonry and in buildings that do not need a greater than half an hour fire performance.

- **Robust & corrosion free**
- **Engineered product upgrade**
- **Patented helix consistency.**

## Benefits

Thor Helical resin grouted remedial wall ties are best used where the quality of masonry is inconsistent or is suspect, such that mechanical ties might not gain or maintain a reliable grip.

The replacement wall tie provides an interlocking adhesion anchorage that exerts no point loaded expansive stress to the masonry.

The cross sectional profile and the twist configuration of the stainless steel helical wall tie enables it to accommodate differential movements in all directions.

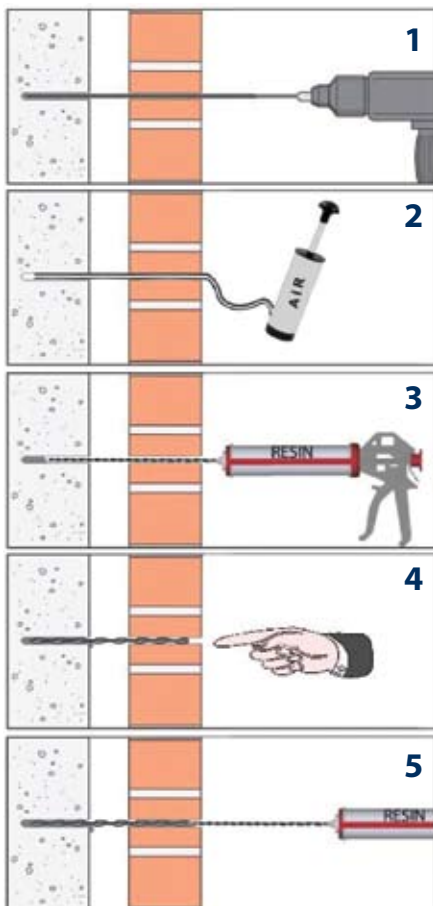
- **Rapid cost effective installation**
- **Combines axial strength with flexibility**
- **Stable, reliable & unobtrusive**

## Distinction

Traditional resin grouted wall ties comprise four components; a threaded shaft portion, a centralizing element at each end, to allow resin to fully encapsulate the shaft, and a drip ring located mid-cavity to inhibit moisture transfer from one leaf to another.

In contrast the one-piece helical wall tie has deep and continuous spiral troughs that prevent the migration of water across the cavity and allow resin to fully encircle the tie, even in smaller diameter bores.

The advanced precise pitch engineering of the Thor Helical tie (Pat EP1307303) ensure a consistent performance that is unequalled by other cavity wall tie brand.



## Method statement

1. Set depth gauge on drill and bore 8mm or 10mm hole through the near brick leaf and 65-75mm into far leaf material.
2. Blow all dust from bore using air pump or air-line. Alternatively clean holes with 'pipe-cleaner' type wire brush.
3. Insert nozzle extension to back of far leaf bore and dispense resin – At the start of each cartridge dispense a 2-3 shots of resin onto waste card to ensure resin is correctly mixed before use.
4. Push remedial wall tie through near leaf into resin in the far leaf. Recess the remedial wall tie to a depth of no more than 30mm beneath the wall surface.
5. Dispense resin to near leaf connection allowing it to flow along and around the helical flutes. Leave resin recessed and fill hole with coloured mortar or sealant.

## Product specification

**Product:** Thor Helical 5mm  $\varnothing$  Tie  
**Standard Lengths (mm):** 205 & 230mm  
**Material:** Austenitic Stainless steel -(304)  
**Ultimate Tensile Strength:** = 1100N/mm<sup>2</sup>  
**Pitch Deviation on Tie:** < 0.5%  
**Expansion Force Exerted by Tie:** = none

### CHARACTERISTIC TENSILE RESISTANCE

MATERIAL	BORE $\varnothing$	DEPTH	LOAD
Brick <20N/mm <sup>2</sup>	10mm	65mm	2.5kN
Concrete >20N/mm <sup>2</sup>	10mm	65mm	3.5kN

### REMEDIAL WALL TIE SELECTOR

CAVITY WIDTH	TIE LENGTH
30-50mm	205mm
55-75mm	230mm

### Twistfix Ltd

6th Floor, 8 Exchange Quay, Manchester M5 3EJ  
[www.twistfix.co.uk](http://www.twistfix.co.uk)  
 © Twistfix Ltd 2008 Doc QFN v 0801