

# Permagard Easi-Fix Helical Resin Fix Tie

## Description

Permagard Easi-Fix Helical Resin Fix Tie is a 6mm $\Phi$  304 stainless-steel finned helical remedial wall tie designed to be used to re-tie cavity walls where a resin bond is required at both ends. Resin fixed remedial 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.

## Features

- Austenitic 304 Stainless Steel
- Quick and easy installation
- No mechanical parts
- Multiple drip points
- High tensile strength with flexibility
- Allows for thermal movement
- Effective solution for re-tying cavity walls
- Tested to BS 1243 and BS DD 140



## Technical Specification

Material	Austenitic Stainless Steel 304
Diameter	6mm
Standard lengths (mm)	195, 213, 220, 245
Pack size	100 per box
Diameter of clearance hole	10mm min
Minimum tie spacing	Ties should be at 900mm centres horizontally by 450mm vertically in a staggered pattern (2.5 ties per m <sup>2</sup> ), or as specified
Fixing agent	Permagard Polyester Resin

## Tie Selection

Cavity Range	Resin Tie Length
25mm-50mm	195mm
50mm-75mm	213mm - 220mm
75mm-100mm	220mm - 245mm

\*70mm Inner leaf embedment

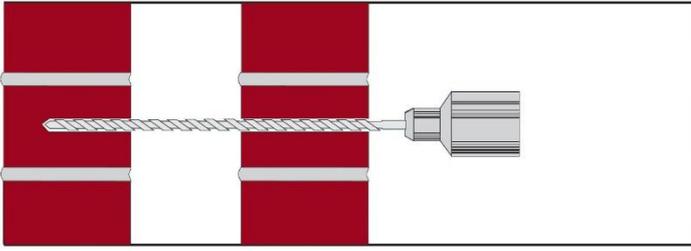
## Tie Classification DD 140

Material	Tie Size	Tie Density	Fixing
Engineering Bricks	6mm $\Phi$	2.5/m <sup>2</sup>	Class 3
Hard Clay Bricks	6mm $\Phi$	2.5/m <sup>2</sup>	Class 2
Concrete Blocks	6mm $\Phi$	2.5/m <sup>2</sup>	Class 2
Soft Clay Bricks	6mm $\Phi$	2.5/m <sup>2</sup>	Class 2

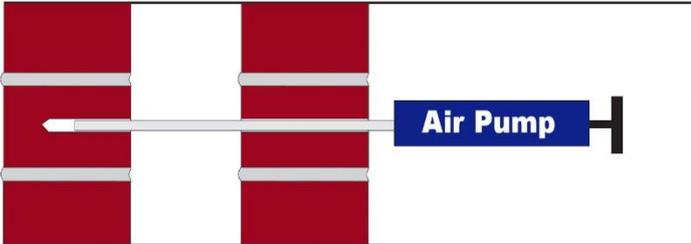
## Limitations

These ties are not suitable for use in cavity walls where the cavity is filled with loose insulating fibre or styrene material.

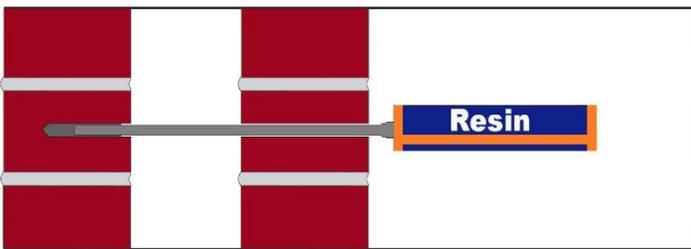
## Method Statement



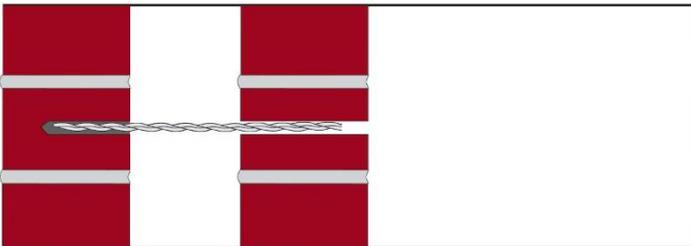
Step 1: Drill a 10mm clearance hole through the outer leaf into the inner leaf material until the recommended depth (70mm) is reached. The installer should check that the drill hole avoids frogs and core holes in the brick if present.



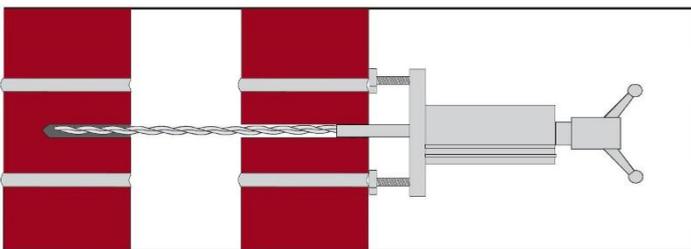
Step 2: Clean inner and outer hole of debris using air pump or pneumatic air jet.



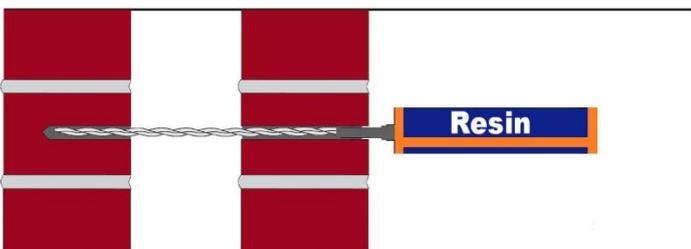
Step 3: Once completely clean fill the inner leaf with fixing resin.



Step 4: Insert the Easi-Fix Helical Resin Tie into the resin making sure the end of the tie is approx. 25mm from the outer face of the outer leaf.



Step 5: Once the resin is fully cured (see manufacturer data sheet) if required the fixing strength of the tie can be tested with a pull tester.



Step 6: Fill the outer leaf with resin allowing the resin to flow along the fins of the tie. Either fill to the surface or if a colour match is required leave the resin recessed and fill with coloured mortar.