

Permagard Easi-Fix Helical Drive Ties

Description

Permagard Easi-Fix Helical Drive Tie is a 304 stainless-steel finned helical tie designed to be used to anchor building façades to structural members, stabilize multiple width brick walls or as remedial wall ties to re-tie a wide range of differing materials like air-crete blocks, clay bricks, stone, concrete blocks and timber studs.

Features

- Austenitic 304 Stainless Steel
- Quick and easy installation
- No mechanical parts
- No resin or neoprene (high fire rating)
- Effective solution for tying cavity and solid walls

The Permagard Easi-Fix Helical Drive Tie is installed using a proprietary setting tool that is used with an SDS-Plus shank hammer drill to drive and countersink the tie. The helical design allows the tie to be driven quickly and easily into a pre-drilled pilot hole. As the tie is driven into the substrate, the fins of the tie undercut the masonry to provide an expansion-free anchorage that will withstand tension and compression loads.

Once installed the Permagard Easi-Fix Helical Drive Tie provides a mechanical connection between a masonry façade and its backup material or between multiple widths of brick.

For installation of Permagard Easi-Fix Helical Drive Ties a light hammer drill is recommended ie no more than 1.5NM impact and not less than 3000 impacts per minute.

Benefits

- Rapid installation, simply drill and drive
- Low installation costs
- Can be installed through cavity insulation
- Multi water drips across the tie
- High tensile strength with flexibility
- Allows for thermal movement
- Designed and tested to DD140



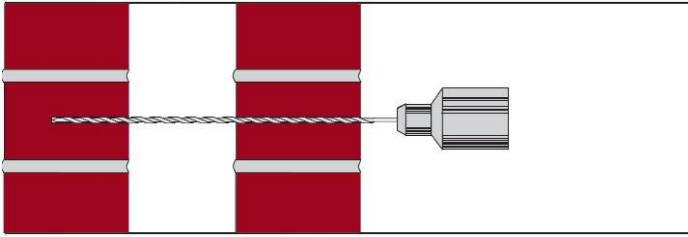
Easi-Fix Helical Drive Tie Classification DD140

Material	Tie Size	Tie Density	Fixing
Engineering Bricks	8mm Φ	2.5/m ²	Class 2
Hard Clay Bricks	8mm Φ	2.5/m ²	Class 2
Concrete Blocks	8mm Φ	2.5/m ²	Class 2
Soft Clay Bricks	8mm Φ	2.5/m ²	Class 3
Timber Studs	8mm Φ	4.44/m ²	Class 5&6
Air-crete Blocks	8mm Φ	2.5/m ²	Class 4

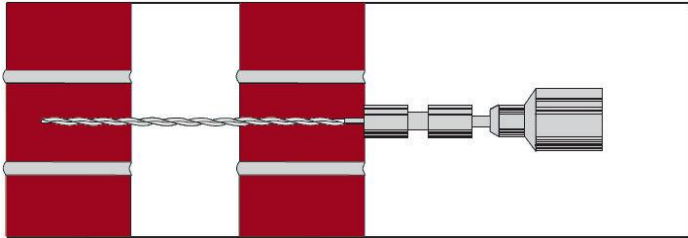
Tie Selection

Cavity Range	Innner Leaf Embedment		
	50mm	70mm	90mm
25mm-50mm	170mm	195mm	220mm
50mm-75mm	195mm	220mm	245mm
75mm-100mm	220mm	245mm	270mm
100mm-125mm	245mm	270mm	295mm
125mm-150mm	270mm	295mm	320mm

Installation Procedure Adding Wall Ties

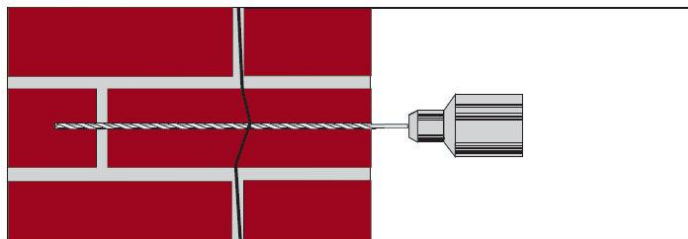


Step 1: Drill pilot hole through outer leaf and then continue pilot hole if required until recommended depth in inner leaf is reached.

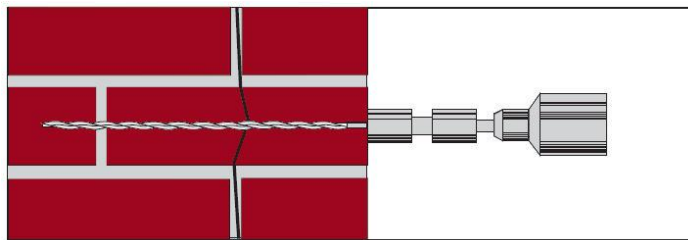


Step 2: Insert Easi-Fix Helical Drive Tie into the fixing tool, then position the front of the tie into the pilot hole and drive the tie home. Re-point hole with sand and cement or resin to match the substrate.

Installation Procedure Masonry Crack Repair



Step 1: Drill pilot hole through masonry until recommended depth is reached.



Step 2: Insert Easi-Fix Helical Drive Tie into the fixing tool, then position the front of the tie into the pilot hole and drive the tie home. Re-point hole with sand and cement or resin to match the substrate.

Specification

Material	Austenitic Stainless Steel 304
Ultimate tensile strength	> 15kn
Buckling strength >100mm	>4kn

Pilot Drill & Embedment Depth Selection

Material	N / mm ²	Tie Diameter	Minimum Embedment Depth	Pilot Hole Diameter
Air Crete Block	2.8	8mm	90mm	N/A
Leca Block	3.5	8mm	70mm	N/A
Concrete Block	7.0	8mm	70mm	5.5mm
Old Soft Brick	<5.0	8mm	70mm	5.0mm
Old Med Brick	<5.0	8mm	70mm	5.0mm
Most Modern Bricks	>11.0	8mm	70mm	5.5mm
Semi Engineering Bricks	30.0	8mm	50mm	N/A



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