

HEAVY DUTY MASONRY PINNING



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DESCRIPTION

- 12mm diameter hammer-driven tie for all types of masonry.
- Rapid SDS hammer insertion system.
- Work hardened helix induces self-tapping corkscrew action.
- Mechanical masonry-screw connection.
- Corrosion resistant 316 grade stainless steel.
- Independently performance tested.

APPLICATIONS

- Tying Masonry Facades to Party Walls.
- Securing Quoins or Stitching Cracks at the Corner of a Wall.
- Reconnecting Thick or Rubble-filled Walls.
- Providing Vertical Reinforcement to Parapet Wall.

BENEFITS

- Patented driving shank system for speed and simplicity .
- Patented precise thread engineering for unrivalled reliability.
- Patented SDS tool for reduced tooling costs.
- Small pilot hole for minimal disturbance and visual impact.
- Longer and stronger than any other helical tie system.
- No adhesives - fire resistant and cold temperature tolerant.
- Quick, easy and cost effective installation.

PRODUCT SPECIFICATION

Thor Helical 12mm Deep Pinning Ties are available in standard lengths of: 610mm to 1370mm (24" to 54") in 150mm (6") increments



STEPS

- 1 Drill 8mm pilot hole to a depth at least 15mm longer than length of the tie; use 10mm bit for hard masonry.



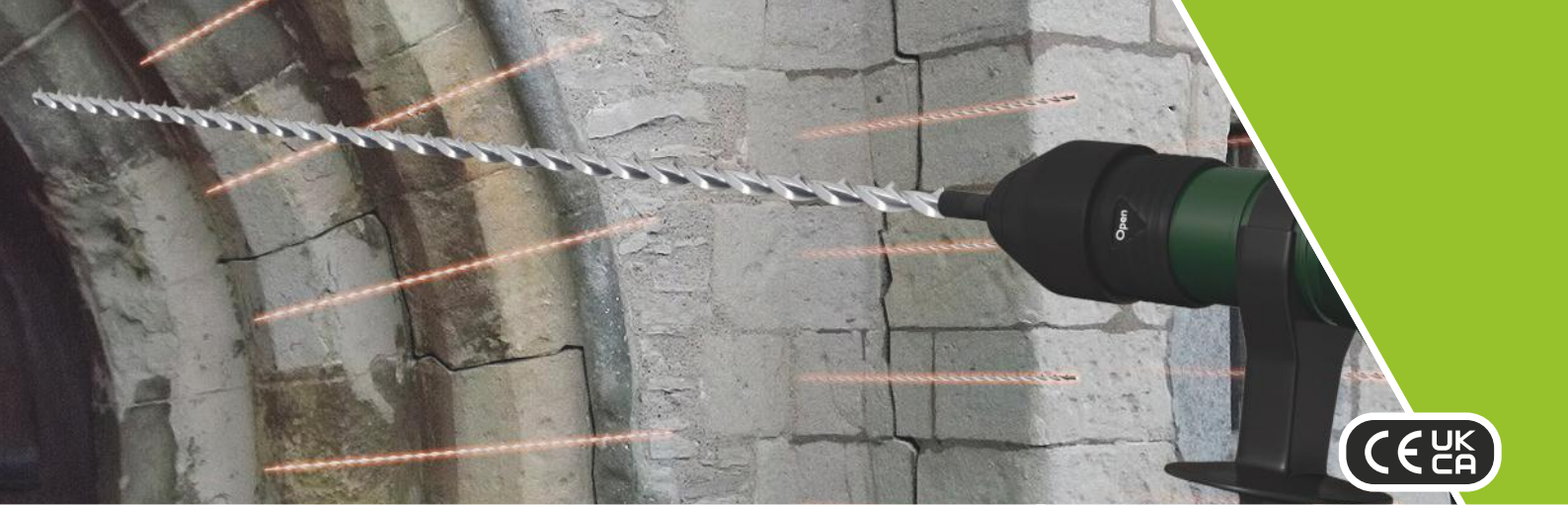
- 2 Insert driving shank of the tie into SDS tool & hammer home using a light to medium-weight SDS drill.



- 3 Patch pilot hole with colour matched mortar.



* Good practice - Check tools & drills periodically for wear.



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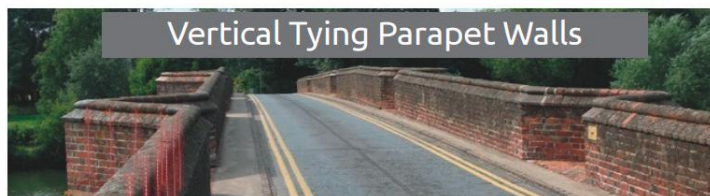
Secures & Ties Masonry Arches



Ties Thick or Rubble-filled Walls



Ties Facing Walls & Buttresses



Vertical Tying Parapet Walls

TYPICAL TENSILE PERFORMANCE – CE MARK TESTING TO BS EN 845-1

Wall Diameter	Strength of Masonry	Pilot Hole Diameter	Tested Embedment Depth	Mean Tensile Load Capacity	Displacement at 1/3rd of Mean Tensile Load
12mm	30.N/mm ²	8mm	215mm	8.45kN	<2mm

TYPICAL SHEAR PERFORMANCE – UKCA MARK TESTING TO BS EN 845-1

Wall Diameter	Strength of Masonry	Pilot Hole Diameter	Off set Shear (Gap)	Mean Load Capacity
12mm	30.N/mm ²	8mm	10-12mm	6.71kN

TYPICAL PROPERTIES OF THOR HELICAL DEEP PINNING TIES

Diameter	CSA (mm ²)	0.2% Proof Stress	Ult Tensile Strength*	Mean Tensile Capacity #
12mm	28mm ²	>820N/mm ²	1025-1225N/mm ²	30kN

* Ultimate Tensile Strength is measured within a calibrated tolerance of +/- 2%
Mean Tensile Capacity is an indicative value derived from CSA x Mean UTS