

REPLACEMENT WALL TIE



9mm WALL TIE SYSTEM

DESCRIPTION

- 9mm Remedial Wall 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 stainless steel 316 grade.
- Independently performance tested and CE marked.

APPLICATION

- Replacing Cavity Wall Ties.
- Secures Solid Walls of Double-leaf or Collar-jointed Construction.
- Ties Rubble-filled Walls.

BENEFITS

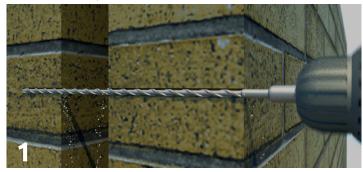
- Patented driving shank system for speed and simplicity.
- Patented precise pitch engineering for unrivalled reliability.
- Patented SDS tool for reduced tooling costs.
- Small pilot hole for minimal disturbance and visual impact.
- No adhesives fire resistant and cold temperature tolerant.
- Quick,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

PRODUCT SPECIFICATION

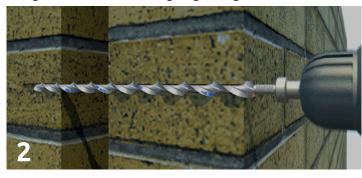
Thor Helical 9mm CD Ties are available in standard lengths of: 150mm, 180mm, 205mm, 230mm, 255mm, 280mm, 305mm, 350mm, 400mm, 450mm & 500mm.

Step 1

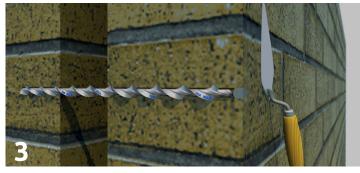
Drill pilot hole to a depth at least 10mm longer than length of the tie: refer to performance table for drill diameter.



Step 2 Insert driving shank of the tie into SDS tool and drive tie straight into both walls using a lightweight hammer-drill.



Patch pilot hole of recessed tie with colour matched mortar.



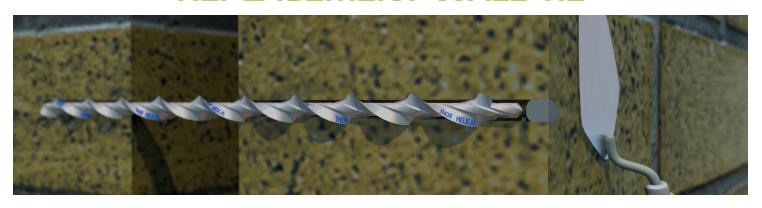
*Good practice - Check walls for electrical and water services.

Conforms to BS EN 845-1: 2013 and conditions for (marking





REPLACEMENT WALL TIE



TYPICAL AXIAL PERFORMANCE - CE MARK TESTING TO BS EN 845- 1								
Substate Type	Comprehensive Strength (N/mm²)	Pilot Hole Diameter (mm)	Tie Embedment (mm)	Cavity Width (mm)	Mean Load at 5mm deflection (N)		Mean Displacement at 1/3 rd of Mean Load (mm)	
					Tension	Compression	Tension	Compression
Aircrete	3.5	0	85	225	1490	1500	0.66	0.28
Dense Aggregate Concrete	7	6	60	150	2870	2700	0.83	0.46
Common Brick	30	6	60	150	1940	2680	0.75	0.27
Perforated Brick	40	5.5	60	150	1990	2790	0.72	0.57
Structural Concrete C30	30	7	40	150	2370	2690	0.37	0.28

EFFECT OF CYCLIC & SEISMIC MOVEMENT - BRICK WALLS - 75mm CAVITY					
Test Purpose	Cam-Cycling Represening	Applied	Mean Tensile Load at 2mm Deflection		
reser dipose	cam cycling representing	Movements	Before Cycles	After Cycles	
Performance after 100 years service cycles	Thermal & Moisture Movement +/-2mm	48,000 cycles	2.9kN	2.4kN	
Seizmic performance in cracked brickwork	Seismic Event +/-10mm	5.3Hz for 3 minutes	2.9kN	2.9kN	

TYPICAL PROPERTIES OF THOR HELICAL CD TIES							
Diameter	CSA (mm²)	o.2% Proof Stress	Mean Tensile Capacity #				
9mm	16mm² >850N/mm²		1025-1225N/mm²	17kN			
	•	within a calibrated tolerance o	•				

