Heavy Duty Masonry Pinning System

Description

- 12mm 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 and CE marked.

Applications

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

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

<table>
<thead>
<tr>
<th>Wall Diameter</th>
<th>Strength of Masonry</th>
<th>Pilot Hole Diameter</th>
<th>Tested Embedment Depth</th>
<th>Mean Tensile Load Capacity</th>
<th>Displacement at 1/3rd of Mean Tensile Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>30.0 N/mm²</td>
<td>8mm</td>
<td>215mm</td>
<td>8.45kN</td>
<td>&lt;2mm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Wall Tie Diameter</th>
<th>Strength of Masonry</th>
<th>Pilot Hole Diameter</th>
<th>Offset Shear (Gap)</th>
<th>Mean Load Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>30.0 N/mm²</td>
<td>8mm</td>
<td>10-12mm</td>
<td>6.71kN</td>
</tr>
</tbody>
</table>

### TYPICAL PROPERTIES OF THOR HELICAL DEEP PINNING TIES

<table>
<thead>
<tr>
<th>Diameter</th>
<th>CSA (mm²)</th>
<th>0.2% Proof Stress</th>
<th>Ult Tensile Strength*</th>
<th>Mean Tensile Capacity #</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>28mm²</td>
<td>&gt;820N/mm²</td>
<td>1025-1225N/mm²</td>
<td>30kN</td>
</tr>
</tbody>
</table>

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