



HELICO

WALL TIE



The Helico Wall Tie provides a quick, effective and economical solution for securing and stabilizing masonry. This stainless steel helical tie is dry set. The Helico Wall Tie cuts a threaded groove into the masonry as it is driven into position through a pre-drilled pilot hole. The end result is a strong and permanent connection between wythes without the use of toxic adhesives or rigid mechanical connectors.

Helico Wall Ties are manufactured from Type 304 austenitic stainless steel and thus provide excellent corrosion resistance.

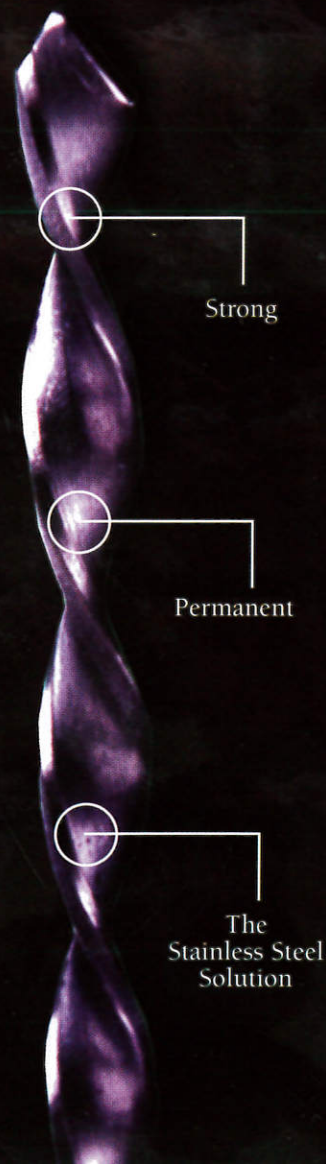
Available in 7.5mm widths with material thickness of 2mm, Helico Ties are able to withstand anticipated loadings with enough flexibility to allow for normal wall movement. Various tie lengths are available to suit wall conditions.

Applications For The Helico Wall Tie Include

- Brick to concrete block (mortar joint or solid brick)
- Brick to concrete (mortar joint or solid brick)
- Multi wythe brick
- Brick to wood stud (mortar joint or solid brick)
- Stone, marble or granite panels to concrete
- Brick to clay tile
- Terra Cotta to masonry

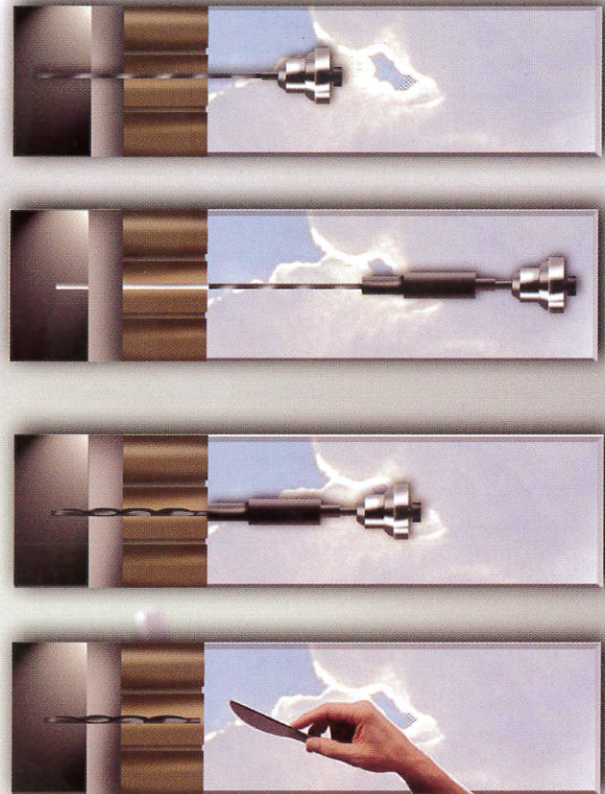
Advantages & Features

- Economical and easy to install
- Only a small pilot hole is required
- No toxic adhesives required
- Can be site tested immediately after installation
- One piece flexible stainless steel wall tie
- Resists corrosion
- Used in a wide variety of materials
- Allows for movement between wythes
- Able to withstand cyclic loading
- Combines flexibility with strength
- Usable in all weather conditions



INSTALLATION:

1. Drill pilot hole to a predetermined depth through the masonry and into the backup material using a rotary percussion drill (3-jaw-chuck-type). For concrete block, normal strength mortar or materials of similar density a 1/4" (6.5mm) pilot hole is recommended. For concrete, high density clay brick, or similar density materials a 7mm pilot hole is required. However, in all cases, test drilling and pull out strength tests should be performed in order to ensure correct pilot hole size has been selected.
2. Load the Helico Wall Tie into a drive tool which is mounted to an electric hammer drill (SDS type). The SDS hammer drill, in the hammer only setting, is always used with the drive tool to insert the Helico Wall Tie.
3. The drive tool automatically recesses the tie into the face of the masonry.
4. Once the Helico Wall Tie installation is completed, the pilot hole is ready to be filled and finished with compatible material.



Structural Performance

| SIZE | EMBEDMENT & SUBSTRATE | PULL-OUT STRENGTH |
|-------------|----------------------------------|-------------------|
| 7.5mm x 195 | 38 mm into hollow concrete block | 638 LBF |
| 7.5mm x 195 | 50 mm into poured concrete | 541 LBF |
| 7.5mm x 195 | 75 mm into wood stud | 652 LBF |

SITE TESTING

On site testing should be carried out to determine material strength, tie length, pilot hole size and appropriate drilling techniques. We strongly urge on site testing be preformed to verify pullout strengths. Helico Wall Ties may be load tested immediately after installation to verify strength of the wall tie connection. As always, Helico Wall Ties should be installed by qualified contractors. Installation, including wall tie positioning, must be approved by the project engineer.

Warranty

Seller makes no warranty of any kind, expressed or implied, written or oral except that the goods sold under this agreement shall be of the standard quality of seller, and buyer assumes all risk and liability resulting from the use of the goods, whether used individually or in combination with other goods. Seller neither assumes nor authorizes any person to assume for seller any other liability in connection with the sale or use of the goods sold.



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