

# Heli-Tie™

## Helical Wall Tie



### Repair of building façades

The stainless-steel Heli-Tie™ wall tie is used to anchor building façades to structural members or to stabilise multiple-skin brick walls. The helical design enables the tie to be driven quickly and easily into a predrilled pilot hole (or embedded into mortar joints in new construction). As it is driven, the fins of the tie undercut the masonry to provide an expansion-free anchorage that will withstand tension and compression loads.

The Heli-Tie wall tie is installed using a proprietary setting tool that is used with an SDS-Plus shank rotohammer to drive and countersink the tie. Heli-Tie wall ties perform in concrete and masonry as well as timber and steel studs.

#### Features and Benefits

- Can install in the face of brick or into the mortar bed joint
- Installs quickly and easily
- Provides an inconspicuous repair that helps preserve a building's appearance
- Type 316 stainless steel offers superior corrosion resistance when wall cavity exposure exists
- Patented manufacturing process enables easier driving and better interlock with the substrate
- Batch number printed on each tie for easy identification and inspection

#### Applications

- Repair of building façades

#### Base Material

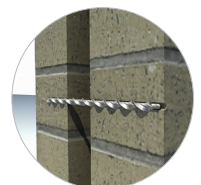
- Brick

#### Finish

- Stainless Steel



Batch number printed on each tie for easy identification and inspection



Patented manufacturing process enables easier driving and better interlock with the substrate

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Call **1300 STRONGTIE** (1300 787 664)  
[www.strongtie.com.au](http://www.strongtie.com.au)

Simpson Strong-Tie® New Zealand  
Call **09 477 4440**  
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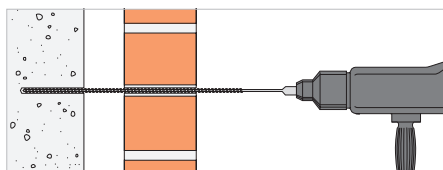


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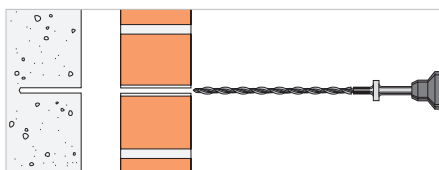
**SIMPSON**  
**Strong-Tie**

### Installation Sequence



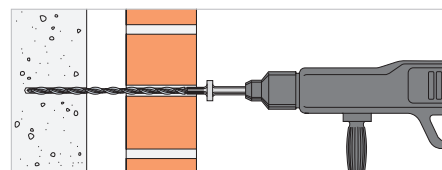
#### 1. Drill

Drill a pilot hole through the façade and to the required embedment depth in the base material. Ensure the drilling depth is at least 10 mm longer than the tie length to prevent the tie from bottoming out (25 mm if the base material is concrete). Set the drill to rotation only mode when drilling into soft masonry or hollow backing materials.



#### 2. Insert

Position the shank end of the Heli Tie™ fastener in the installation tool and insert the tie into the pilot hole.



#### 3. Drive

With the SDS-PLUS rotary hammer drill in hammer mode, drive the tie until the tip of the installation tool enters the exterior surface of the masonry and countersinks the tie below the surface.

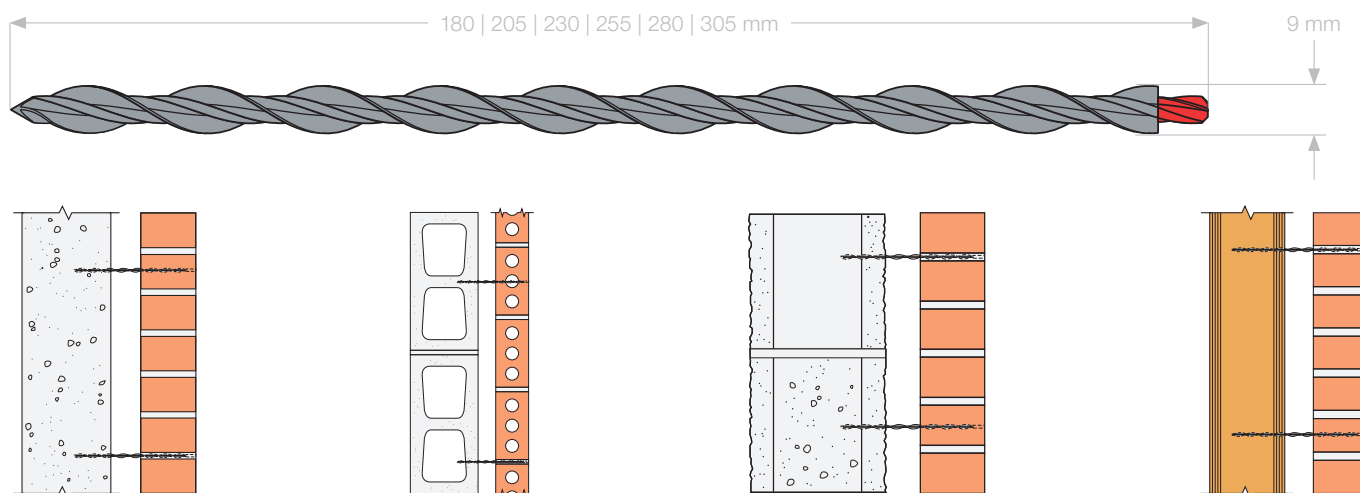
PLEASE NOTE: A test hole should be performed to ensure the tie will go in. Test holes should also be used to establish the optimum pilot hole diameter for the substrate (5.5, 6.0, or 6.5 mm).

Patch the hole in the façade with a matching masonry mortar.

### Heli-Tie™ Helical Wall Tie Product Availability

Size (mm)	Model No.	Drill Bit Dia. (mm)	Material	Pack Qty	Ctn Qty
9 x 180	HELI09180A4	5.5 to 6.5	316 Grade Stainless Steel	100	400
9 x 205	HELI09205A4				
9 x 230	HELI09230A4				
9 x 255	HELI09255A4				
9 x 280	HELI09280A4				
9 x 305	HELI09305A4				
9 x 10,000	HELI09A2-X		Type 304 Stainless Steel	1	—

\*Ties cannot be cut from 10m coils as they will be banana shaped



### Complementary Products

#### Heli Tie™ Fastener Installation Tool

Required to correctly install the Heli Tie™ wall ties, this tool speeds up installation and automatically countersinks the tie into the façade material. The one-piece design with no moving parts, improves longevity and prevents the Heli Tie fasteners from jamming. Installation tools sold separately.

Installation Tool Model No. **HELITOOLO9**



#### Heli Tie™ Wall Tie Tension Tester

Recommended equipment for on-site testing to accurately determine load values in any specific structure, the Heli Tie™ wall tie tension tester features a key specifically designed to grip the Heli Tie fastener and provide accurate results. Replacement test keys sold separately.

Tester Model No. **HELITEST09**

Test Key Model No. **HELITKEY09**



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