

Stabilise Facades Fast!



Heli-Tie™ Helical Wall Tie
U.S. Patent 7,269,987

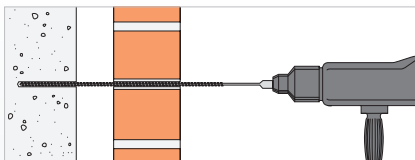
The stainless-steel Heli-Tie™ wall tie is used to anchor building facades to structural members or to stabilise multiple-skin brick walls. The helical design enables the tie to be driven quickly and easily into a predrilled pilot hole (or embedded into mortar joints in new construction). As it is driven, 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 wood and steel studs.

Features

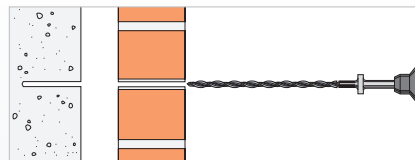
- Can install in the face of red brick or into the mortar bed joint
- Installs quickly and easily
- Provides an inconspicuous repair that helps preserve a building's appearance
- Patented manufacturing process enables easier driving and better interlock with the substrate
- Batch number printed on each tie for easy identification and inspection

Installation



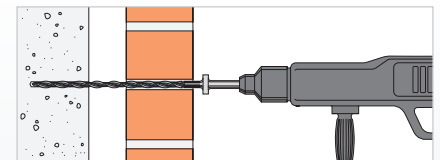
1. Drill

Drill pilot hole through the façade and to the specified embedment depth in the base material (add 25mm to drill depth if base material is concrete). Drill should be in rotation only mode when drilling into soft masonry or into hollow backing material.



2. Insert

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



3. Drive

With the SDS-PLUS rotohammer in rotation and 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.

Helical Wall Tie Product Data

Size (mm)	Model No.	Material	Drill Bit Dia. (mm)	Quantity		Region Availability
				Box	Ctn	
9 x 180	HELI09180A4	316SS	5.5	100	400	AU NZ
9 x 205	HELI09205A4			100	400	
9 x 230	HELI09230A4			100	400	
9 x 255	HELI09255A4			150	300	
9 x 280	HELI09280A4			150	300	
9 x 305	HELI09305A4	304SS	6.5	150	300	ZA
9 x 255	HELI371000A			50	200	
9 x 280	HELI371100A			50	200	
9 x 305	HELI371200A			50	200	

For load data and special-order lengths, please contact your local Simpson Strong-Tie branch for details.

Complementary Products



HELIT00L09 (AU & NZ) | HELIT00L37A (ZA)

Heli-Tie™ Fastener — Installation Tool *(sold separately)*

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.

Heli-Tie™ Wall Tie — Tension Tester *(sold separately)*

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 (Model **HELIKEY09**)



HELITEST09

Fix Facades Fast!



Heli-Tie™ Helical Wall Tie

U.S. Patent 7,269,987

Restoration or repair of damaged brick and masonry structures presents a unique challenge to contractors and Designers. The Simpson Strong-Tie® Heli-Tie™ helical stitching tie provides a unique solution to the preservation and repair effort. Made of 304 stainless steel, the 6 mm diameter x 1000 mm long tie is installed into the bed joint of damaged or cracked masonry courses using Simpson Strong-Tie POLY-GP Fast Cure Polyester Anchoring Adhesive or Simpson Strong-Tie AT-HP Blue Fast Cure Methacrylate Anchoring Adhesive*.

Helical Wall Tie Product Data

Size (mm)	Model No.	Material	Quantity		Region
			Box	Ctn	
6 x 1000	HELIST254000	304SS	1	10	AU NZ ZA

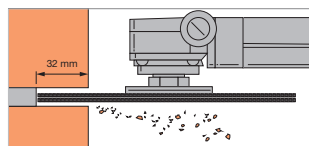
For special-order lengths, please contact your local Simpson Strong-Tie branch for details.

Features

- Helical design distributes loads uniformly over a large surface area
- Installs into the mortar joint to provide an inconspicuous repair and preserve the appearance of the structure
- Type 304 stainless steel offers superior corrosion resistance to original reinforcement
- Patented manufacturing process results in consistent, uniform helix configuration
- Batch number printed on each tie for easy identification and inspection

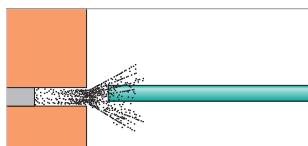
*Not all Simpson Strong-Tie anchoring adhesives mentioned are available in all regions please contact your local branch for stock availability.

Installation



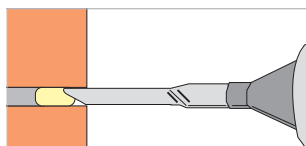
1. Grind

Chase bed joint 500mm on either side of the affected area to a depth of approximately 32mm with a rotary grinding wheel. Vertical spacing of installation sites should be approximately 300mm for red brick or "every course" for concrete masonry units.



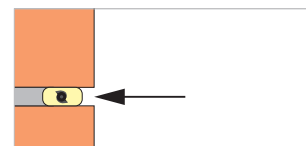
2. Clean

Clear bed joint of all loose debris.



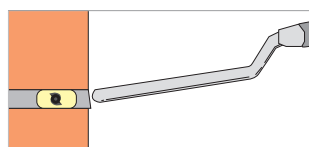
3. Fill

Mix non-shrink repair grout or mortar (by others) as per product instructions and place into the prepared bed joint, filling the void to approximately two-thirds of its depth; alternatively, Simpson Strong-Tie AT-HP BLUE or Poly GP may be used*.



4. Insert

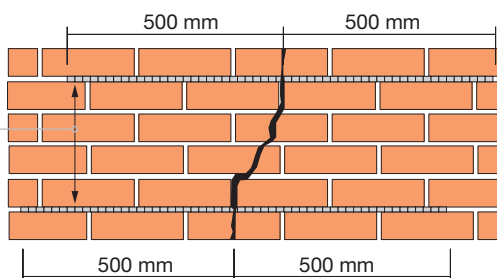
Embed the tie at one-half the depth of the void. Trowel displaced grout to fully encapsulate the tie.



5. Seal

Fill any remaining void and vertical cracks with repair mortar (by others) to conceal repair site.

- 300mm. max for brick
- Every other course for CMU applications



Simpson Strong-Tie® Australia Pty Ltd
Call **1300 STRONGTIE** (1300 787 664)
www.strongtie.com.au

Simpson Strong-Tie® (New Zealand) Ltd
Call **09 477 4440**
www.strongtie.co.nz

Simpson Strong-Tie® South Africa Pty Ltd
Call **087 354 0629**
www.strongtie.co.za

This flier is effective until June 30, 2019, and reflects information available as of December 1, 2016. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.