

SPIRA-LOK (cont'd)

FEATURES

- One piece anchor
- Austenitic Stainless Steel
- Helical configuration

- Central Core Cruciform Shape

- Pointed End Symmetry
- Pullout resistance

- Engineered Design

BENEFITS

- Simplified handling
- Long term durability
- Acts as a drip. Maximizes cutting edge contact. Provides self-tapping action. Simulates thread conditions without pre-load stress. Accommodates in-plane cyclic loading. Provides flexibility to accommodate differential movement between wythes
- Optimizes axial strength in tension and compression. Dissipates installation energy. Centralizes load transfer.
- Installation ease
- Up to 10 times conventional wall capacity
- Can be immediately tested for performance verification on site. Can be used in various building materials

Note: An architect and/or engineer should be consulted for the optimum spacing of this product.

LOAD REQUIREMENTS

The primary function of a wall tie system is to enable the outer masonry to withstand wind loads while allowing differential movement between adjacent wythes. Masonry walls should not be considered as a continuous panel but rather as a series of load sharing units. **Spira-Lok Wall Ties** function as a flexible load sharing connection for masonry walls rather than as a rigid anchor.

TYPICAL PERFORMANCE CHARACTERISTICS			
Material	Effective Minimum Embed (Inches)	Ultimate Tension/Compression (lbs)	
		8 mm	10mm
Mortar Joint	3"	780	616
Brick (solid)	3 5/8"	700	700
Brick (cavity)	3 5/8"	1280	1390
CMU (hollow) 6" (normal wt. cmu)	1"	801	907
CMU (grouted) (Lightweight Block)	2"	550	550
Concrete	1 1/4"	1200	1300
Wood Stud			
• 2 x 4	• 3"	517	N/R
• 2 x 6	• 3"	520	N/R
Metal Stud	16 gauge	310	N/R
Granite	1 1/8"	620	650
Travertine	7/8"	590	800
Limestone	3"	600	620
3/16" Steel	3/16"	520	N/R

Unsupported Length	BUCKLING STRENGTH (lb)	
	8 mm	10 mm
1 inch (25 mm)	1638	2335
2 inch (50 mm)	1290	1613
4 inch (100 mm)	690	1185
6 inch (150 mm)	375	614

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Patch-Lok Helical Patch Reinforcement

APPLICATIONS

Patch-Lok Helical Patch Reinforcement is used for providing a powerful mechanical key between the damaged substrate and the patching compound used to effect a repair. Primarily designed for spalled concrete repairs, Patch-Lok can also be used wherever a strong, non-chemical bond between a substrate and patching compound is required.

SIZES: Available in 8mm x 3" lengths in Type 304 or 316 Stainless Steel. (Can be bent or cut to suit requirements)

INSTALLATION PROCEDURE

1. Area to be clean and sound
2. Drill 1/4" (6.5mm) pilot holes to a depth of 1 3/4" (45mm) using an SDS Hammer Drill. Patch-Lok reinforcement is to be placed according to the engineer's instruction, but normally 2" (50mm) from the edge of the repair and with a nominal grid of 6-8" (150-200mm) centers, and not less than two Patch-Lok per patch.
3. Using an SDS Hammer Drill and the Patch-Lok Installation Tool provided, insert the Patch-Lok reinforcement into the pilot holes ensuring that they remain below the intended finished profile of the repair.
4. Apply the patching compound.