

STITCH-TIE® BAR

Provides reinforcement in mortar joints and dutchmen

The stainless steel Stitch-Tie Bar repairs cracked masonry and can provide reinforcement to create structural beams from existing brick veneers. The Stitch-Tie Bar comes with SureGrout, a high-performance, non-oxidizing, non-shrink, thixotropic, cement-based grout that's suitable for injecting by hand.

Cold rolled stainless steel wire profiles and twisted for use as an anchor, wall tie or as a reinforcement member for use in concrete, masonry, mortar or stone construction elements.



**EASY & FAST
INSTALLATION**



**ALMOST
INVISIBLE**



**304 & 316
STAINLESS STEEL**



**RETRO-REINFORCEMENT
OF BED JOINT MASONRY**



**BARS CAN BE SECURED IN
NON-LINEAR JOINTS**



**STRONG CONNECTION
TO BASE MATERIAL**

Axial Core

provides in-plane ductile strength and bridging stiffness for hole alignment & energy absorption during installation



- helical pitch -

Intimate Contact

4.5mm X 33ft coil, 6mm x 40" (1 meter)
long or 10ft coil

Load distributed
over the contact area of anchor

STITCH-TIE BAR

Provides Reinforcement in Mortar Joints and Dutchmen.

Overview

The Stitch-Tie Bar is used to repair cracked masonry and can provide reinforcement to create structural beams from existing brick veneers. The bars are manufactured of Type 304 stainless steel (Type 316 available upon request). The Stitch-Tie Bars and SureGrout provide excellent bonding characteristics within the masonry. When used together, Stitch-Tie Bars offer a superb combination of axial strength and flexibility, which helps absorb further localized stress. They are installed in existing mortar bed joints that have had mortar removed to accommodate the bar and grout material.

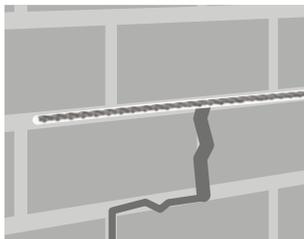
Installation



STEP 1. Grind away existing mortar, 20" minimum on each side of crack, 1-1/2"-2" deep. Clean with Water.



STEP 2. Apply a bead of SureGrout at the base of the ground joint.



STEP 3. Insert Stitch-Tie Bar into bead of SureGrout



STEP 4. Apply second/third bead of SureGrout over Stitch-Tie Bar, and compact with appropriate trowel.

Stitch-Tie Physical Characteristics*

nominal dimensions

Outside Tie Diameter	6mm
Mass: lb/ft (kg/m)	0.043 (0.062)
Cross Sectional Area (under load): in ² (mm ²)	0.012 (8)
Yield Strength: ksi (N/mm ²)	108 (745)
Ultimate Tensile Strength: ksi (N/mm ²)	130 (1060)
Ultimate Shear Load: ksi (pure shear, no bending) lbs (N)	265 (1180)
Elastic – Modulus: ksi (Gpa)	22,625 (156.3)
Helix Angle: (to longitudinal axis)	32.14°
Pitch Length: in. (mm)	0.59 (15)
Helical Pitch Length: in. (mm)	1.18 (30)

* Material: ASTM A-167 TYPE 304 Stainless Steel

Stitch-Tie Bar Kit

SureGrout S

6 Litre, 3 Litre and 1.5 Litre,
3900psi (27.5 Mpa) for soft masonry

600 ml Crack Stitching Gun and Nozzle

Mixing Paddle

Tuck Pointing Trowel

