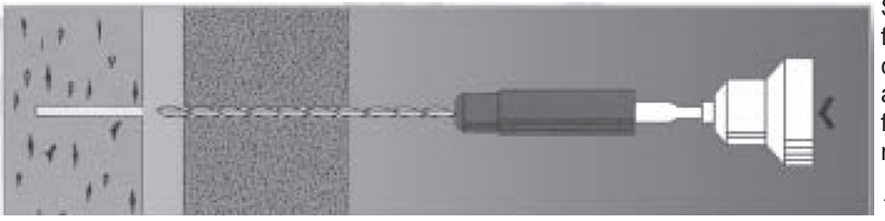
RESTORATION

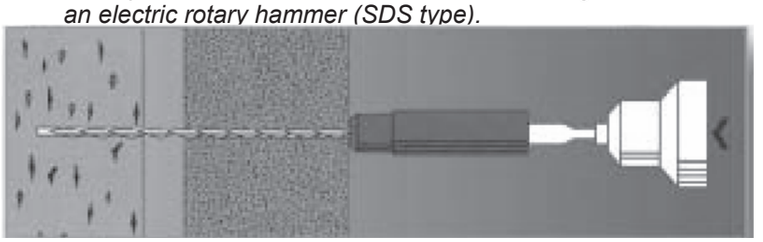
SPIRA-LOK

Helical Wall Tie System

The dry set procedure of masonry stabilization involves simply driving a Spira-Lok Helical stainless steel tie through the masonry, via a small pilot hole, using our installation tool. The self-tapping dry set tie cuts a threaded groove into the masonry as it is driven into position to provide a solid connection between wythes without the use of toxic adhesives, mechanical expanders or rigid connections.



1. *A small pilot hole is drilled, to a predetermined depth, through the masonry and into the backup material using a hammer drill (3-jaw-chuck-type).*
2. *The Spira-Lok Wall Tie is loaded into the setting tool which is mounted to an electric rotary hammer (SDS type).*



3. *The setting tool automatically recesses the tie (approx. 3/8") into the face of the masonry*
4. *The pilot hole is aesthetically finished with a compatible material.*

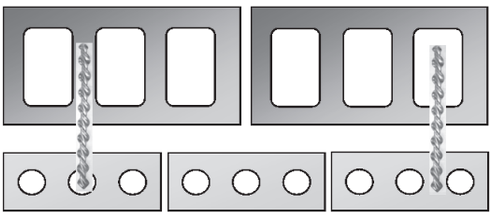
Spira-Lok Wall Ties are engineered from austenitic stainless steel which combines axial strength to withstand all anticipated wind loadings with sufficient flexibility to accommodate normal wall movement.

The Spira-Lok Wall Tie System provides an effective and economical stress-free connection between all commercially used materials in cavity and solid masonry construction and has been widely used in high-rise and commercial applications throughout the world.

INSTALLATION TECHNIQUES have evolved to optimize the performance of the Spira-Lok Wall Tie System. Installation procedures are available along with product specifications for typical masonry stabilization. Rotary percussion usually achieves the best results.

Part Number	Size
8 MM (5/16")	Requires 1/4" Drill Hole
HWT8/155	8 MM X 155 MM (6.1")
HWT8/170	8 MM X 170 MM (6.7")
HWT8/195	8 MM X 195 MM (7.7")
HWT8/220	8 MM X 220 MM (8.7")
HWT8/245	8 MM X 245 MM (9.8")
HWT8/270	8 MM X 270 MM (10.8")
HWT8/295	8 MM X 295 MM (11.8")
HWT8/330	8 MM X 330 MM (13.2")
HWT8/350	8 MM X 350 MM (14.0")
HWT8/400	8 MM X 400 MM (16.0")
HWT8/450	8 MM X 450 MM (18.0")
HWT8/525	8 MM X 525 MM (21.0")
HWT8/600	8 MM X 600 MM (24.0")

Part Number	Size
10 MM (3/8")	Requires 5/16" Drill Hole
HWT10/155	10 MM X 155 MM (6.1")
HWT10/170	10 MM X 170 MM (6.7")
HWT10/195	10 MM X 195 MM (7.7")
HWT10/220	10 MM X 220 MM (8.7")
HWT10/245	10 MM X 245 MM (9.8")
HWT10/270	10 MM X 270 MM (10.8")
HWT10/295	10 MM X 295 MM (11.8")
HWT10/330	10 MM X 330 MM (13.2")
HWT10/350	10 MM X 350 MM (14.0")
HWT10/400	10 MM X 400 MM (16.0")
HWT10/450	10 MM X 450 MM (18.0")
HWT10/525	10 MM X 525 MM (21.0")
HWT10/600	10 MM X 600 MM (24.0")



STANDARD DETAILS

The dry set technique may involve various tie diameters, drill bits and installation tools. An on-site survey should be carried out prior to project tendering to determine material strength, tie diameter & length, pilot hole size and appropriate drilling technique. Standard sample specifications are available.

Spira-Lok* Physical Characteristics
nominal dimensions

Outside tie diameter	8mm	10mm
Pitch length: in. (mm)	0.84 (21.4)	1.0(25.4)
Tie cross-sectional area: $in.^2$ (mm^2)	0.017 (11.6)	0.022 (14.2)
Yield strength: ksi (MPa)	65.9 (455)	73.8 (509)
Tensile strength: ksi (MPa)	137.0 (950)	137.0 (950)

* *Material: ASTM A-167 TYPE 304 Stainless Steel*