



Heckmann Building Products Inc.

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SUBMITTAL SHEET: #391 Remedial Tie

The No. 391 Remedial Wall Tie provides a quick, effective and economical solution for securing and stabilizing masonry. Existing facades constructed of brick, stone, masonry, precast concrete, etc. that have wall ties missing or corroded, can be re-attached using the No. 391 Remedial Tie without removing the veneer. This stainless steel helical tie is dry set. The Remedial Tie cuts a threaded groove into the masonry as it is driven into position through a pre-drilled pilot hole. The end result is a strong and permanent connection between wythes without the use of toxic adhesives or rigid mechanical connectors.

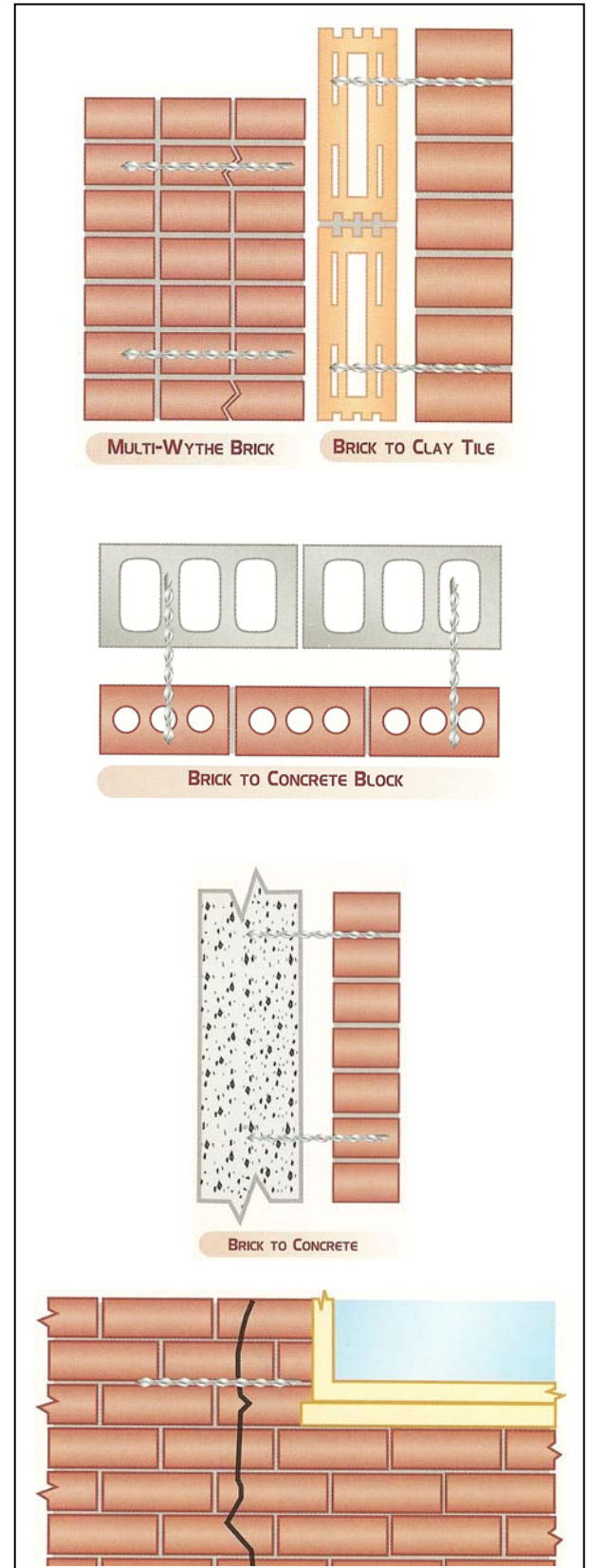
The Remedial Wall Ties are manufactured from Type 304 stainless steel and thus provide excellent corrosion resistance.

Available in 8 mm and 10mm width, Remedial Ties are able to withstand anticipated loadings with enough flexibility to allow for normal wall movement. Various tie lengths are available to suit wall conditions.

Standard Sizes:

Standard No.	Size
391-86	8 mm x 6"
391-88	8 mm x 8"
391-810	8 mm x 10"
391-812	8 mm x 12"
391-106	10 mm x 6"
391-108	10 mm x 8"
391-1010	10 mm x 10"
391-1012	10 mm x 12"
391-8T	Setting tool 8 mm
391-10T	Setting tool 10 mm

Stainless Steel: ASTM A 167 AISI Type 304.



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Physical Characteristics

Outside Tie Diameter	8 mm	10 mm
Pitch length in. (mm)	0.79 (20)	1.0 (25.4)
Tie cross-sectional area In ² (mm ²)	0.016 (10)	0.02 (13)
Yield strength ksi (MPa)	108 (745)	93 (640)
Tensile Strength ksi (MPa)	128 (883)	119 (820)

Ultimate shaft Buckling Strength Capacity (lbs)

Unsupported Length (mm)	8 mm	10 mm
1 inch (25 mm)	1,620	2,335
2 inch (50 mm)	1,425	1,613
4 inch (100 mm)	1,100	1,185
6 inch (150 mm)	725	614

Installation

			
Step 1: Drill a pilot hole using percussion hammer drill (3-jaw chuck type) through the mortar joint.	Step 2: Insert the Remedial Tie into the dry set installation tool mounted on the rotary hammer S.D.S. drill.	Step 3: Drive the Remedial Tie until the nose of the dry set installation tool is hard against the veneer.	Step 4: The dry set installation tool automatically recesses the Remedial Tie into the face of the masonry. Patch hole.

Performance Characteristics

Ultimate tension/compression
(lbs.)

Material	Effective minimum embed (inches)	8 mm	10 mm
Mortar Joint	3"	700	600
Brick (solid)	3 5/8"	700	700
Brick (cavity)	3 5/8"	1,200	1,400
CMU hollow 6"	1"	800	900
CMU grouted Lightweight	2"	550	550
Concrete	1 1/4"	1,200	1,300
Wood Stud 2 x 4	3"	520	n/r
2 x 6	3"	520	n/r
Metal Stud	16 gage	300	n/r
Granite	1 1/8"	500	650
Travertine	7/8"	500	800
Limestone	3"	600	620

This data reflects the results of lab, field, and in-house results and is provided as a guideline for the designer. Site testing is encouraged for verification of load carrying capacity.

(n/r = not recommended)

Approvals:

Comments: