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NEW! Innovative Masonry Anchors. (Patent Pending)

The efficient and reliable transfer of horizontal forces between a masonry wall and the building frame is critical to the stability of the building and its main components. This is easily achieved with the New Twist-On Wall Anchors.

The **Twist-On Hook** allows you to connect a masonry wall to **Joist, Joist Girder** or any other **Truss** as well as to a **Castelated** or **Rolled Beam**, while allowing free deflection. The anchor hooks to a **Vertical Sliding Bar** welded to the steel member.

A **Corrugated Anchor Bar** welded to the **Wall Anchor** provides secure anchorage in the mortar bed, **without grouting**, even in **hollow block** masonry. It remains effective even when the embedment depth differs with the varying distance between the steel and the masonry wall, as allowed by the construction tolerances. This is designed to save time & money as well as to provide a more reliable system with less quality control required.

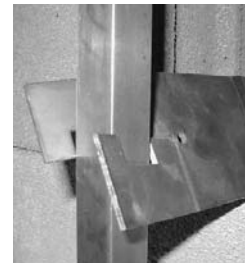
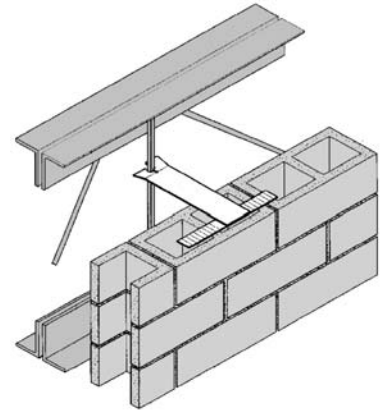
There are two types of Twist-On Wall Anchors:

No. 394 Twist-On I Type Wall Anchor: Equipped with the new Twist-On Hook that will attach to a joist, joist girder or any type of truss or beam with a welded vertical sliding bar. The embedded part is corrugated. The standard is 11 gage thick x 3-1/4" wide, Hotdip Galvanized After Fabrication. The twist-on hook can be fabricated for 1/2", 3/4", or 1" square bar. Specify length to suit masonry wall thickness and distance to steel.

No. 395 Twist-On T-Type Groutless Wall Anchor: 11 gage thick x 3-1/4" wide with the new Twist-On Hook on one end and with a 1-1/2" x 16" long **Corrugated Anchor Bar** factory-welded onto the other end. The Twist-On Hook will attach to a joist, joist girder or any type of truss or beam with a welded vertical sliding bar.

System Benefits

1. Allows the use of joists and joist girders along the perimeter of the building, while anchoring the masonry wall to the open web members with the same efficiency as to a rolled steel member. This can reduce significantly the total cost of the steel framing.
2. Allows the placement of the beam, joist, or joist girder along the wall, rather than built into the wall, while assuring proper connection to the masonry.
3. Allows the use of the masonry wall as a shear wall more often, because the connection is stronger and more reliable. If necessary, two anchors can be installed on a single vertical sliding bar, thus increasing the total shear resistance of the system in a very economical way.



Easily hooks onto vertical sliding bar

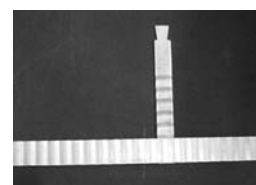


394 I-Type

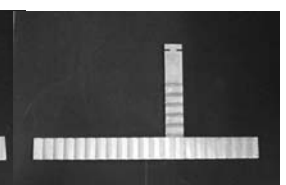


395 T-Type

The "T" type anchor, with its groutless advantages is also available for back-up walls with Dovetail and Channel Slot connections.



396 Dovetail



397 Channel Slot

Always ask for the **NEW Groutless Masonry Anchors by name**. Below is a sample of a specification.

The contractor shall provide masonry anchors not further than [dimension] inches on center. The anchors shall be [No. 394 Twist-On I-Type][No. 395 Twist-On T-Type Groutless], as manufactured by Heckmann Building Products, Inc., 1501 N. 31st. Avenue, Melrose Park, IL. 60160 Tel. 800-621-4140. The contractor shall install a [1/ 2" x 1/ 2"] [3/ 4"x 3/ 4"] [1" x 1"] vertical sliding bar at each anchor.

The new masonry anchors went through an extensive testing program by an independent testing laboratory. The testing was divided into two groups:

1. Testing the Twist-On Hook

In this test the anchor was basically clamped in a vice, allowing approximately 6" free extension from the anchorage point to the center of the 1" x 1" square bar, through which the forces were applied. From this test we obtained the following results:

Tension Test All forces given in Lb.'s

Sample No.	T-1	T-2	T-3	T-4	T-5	Average
Peak Elastic Load	---	2,200	2,120	2,116	2,150	2,146
Ultimate Load	3,620	3,370	3,162	3,312	3,594	3,412

Shear Test All forces given in Lb.'s

Sample No.	S-1	S-2	S-3	S-4	S-5	Average
Peak Elastic Load	595	422	533	594	473	523
Ultimate Load	953	871	888	913	969	919

Compression Test All forces given in Lb.'s

Sample No.	C-1	C-2	C-3	C-4	C-5	Average
Ultimate Load	5,810	5,800	5,340	5,210	5,480	5,528

2. Testing the anchorage of the Groutless Anchor Bar System, when embedded in a mortar bed of 12" hollow masonry block wall. Grout was **not** used to fill the cells at the anchor

For the test, hollow Concrete Masonry Units were used conforming to ASTM C-90 and Mortar Type S conforming to ASTM C-270.

In this test, the anchor was embedded in the masonry mortar bed, allowing approximately 6" free extension from the face of the masonry wall to the center of the 1" x 1" square bar via which the tension and compression force was applied. The shear force was applied directly on the anchor bar, very close to the face of the masonry. From this test, the following results were obtained.

Tension Test All forces given in Lb.'s

Sample No.	T-1	T-2	T-3	T-4	T-5	Average
Ultimate Load	3,863	3,500	3,500	3,600	3,500	3,592

Shear Test All forces given in Lb.'s

Sample No.	S-1	S-2	S-3	S-4	S-5	Average
Ultimate Load	*	2,070	2,500	2,200	2,184	2,238

Compression Test All forces given in Lb.'s

Sample No.	C-1	C-2	C-3	C-4	C-5	Average
Ultimate Load	4,910	3,660	4,140	3,830	3,050	3,918

Full test reports prepared by Wiss, Janney, Elstner Associates, Inc. are available upon request.

INSTALLATION: The anchors shall be installed perpendicular to the **Vertical Sliding Rail**, so that when pushed or pulled, shoulders of both hooks will resist the force simultaneously.