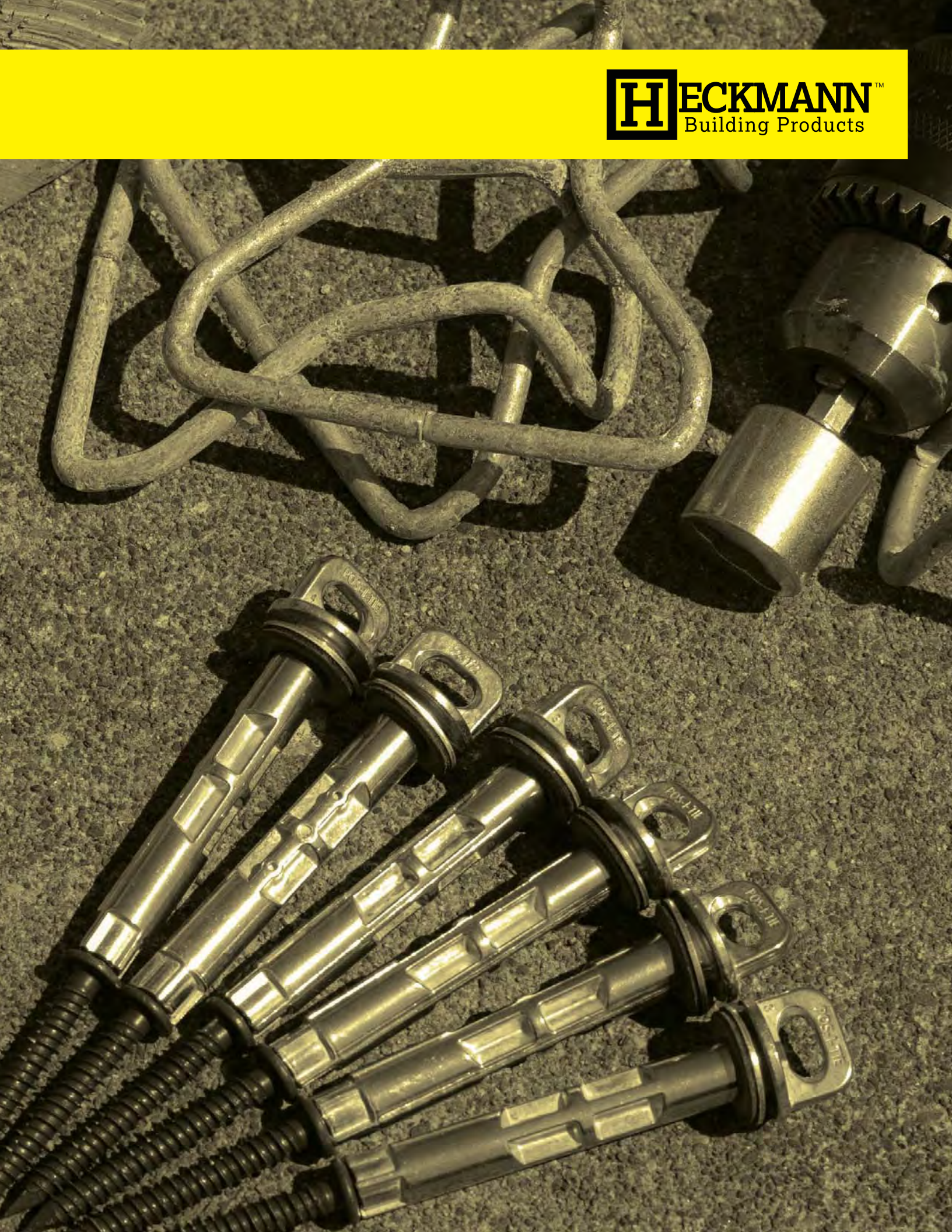

HECKMANN™
Building Products

Table of Contents

Materials and Finishes

Stainless Steel: Stainless Steel provides the greatest level of corrosion resistance in most building environments and is especially recommended for use with stone subject to staining and in exterior walls. ASTM A 666*, ASTM A 240*, ASTM A 480*, ASTM A580* Type 304 2B Finish. (Also available in Type 316)
Hot-dip Galvanized After Fabrication: ASTM A 153. Class B-2: (1.50 oz/ft^2)(0.46kg/m^2)*
Mill Galvanized: ASTM A653 G60.* ASTM A 641 (0.1 oz/ft^2)*
Uncoated Steel:
Sheets: ASTM A 1008/A 1008M
Plates, Bars, and Shapes: ASTM A36/A 36-M96
Wire: ASTM A1064/1064M
Wire Reinforcement: ASTM A951 / A951M-06
* TMS 402 CODE REQUIREMENTS

TMS 402 Building Code • International Building Code

The following information is a summary of the Masonry Veneer Anchor Requirements from the current 2016 TMS 402 which is referenced in the 2018 IBC.

General Code requirements

- Anchors for Exterior Walls must be Hot-dip Galvanized After Fabrication or 300 Series Stainless Steel
- Anchors for Interior Walls may be Hot-dip Galvanized After Fabrication, 300 Series Stainless Steel or Mill Galvanized
- Drips in anchors are NOT allowed. Drips were popular years ago for water migration, but the compression loads are greatly reduced so they are no longer permitted
- Veneer anchors are embedded in the mortar joint a minimum of 1-1/2" from the backup with at least 5/8" mortar cover to the outside face
- Minimum airspace is 1"

There are 5 types of **veneer anchors:**

1. **Corrugated:** One-piece, fully-corrugated strips that are bent in the field. Minimum thickness is 22 gauge. Minimum width is 7/8". They can be used only with wood frame backup walls with a maximum 1" airspace.
2. **Sheet Metal:** One-piece, factory-bent L-Type anchors with a minimum thickness of 16 gauge and a minimum width of 7/8". They can be used only with wood frame backup walls and are allowable for airspaces over 1"
3. **Wire Type:** Minimum 9 gauge (0.1483") diameter with ends bent to form an extension from the bend a minimum of 2" in the veneer. The majority of wire-type anchors are 3/16" diameter. Permitted with wood frame backup and CMU backup only.
4. T**wo-Piece Adjustable:** Consisting of an anchor attached to the backup with a wire tie that gives vertical adjustment within the backup anchor for placement into the veneer mortar joint. When adjustable anchors consist of a “pintle” and an “eye”, the connecting parts must fit together to allow a maximum of 1/16" movement between the two parts and a maximum offset of 1-1/4" between the two parts. Two Piece Adjustable anchors are allowed for backups of Wood, Steel, Concrete or CMU.
5. **Wire Reinforcement:** Pintle and eye reinforcement or 3-wire ladder type are allowed. Minimum 9 gauge diameter wire with cross wires a maximum of 16" on center. For cavities exceeding 4-5/8" a minimum 3/16" diameter wire is required. Used with CMU backup only.

Additional Code Information For Masonry Anchors

- Anchor thickness in masonry joints cannot be greater than one-half the joint thickness (3/8" joint would have a maximum anchor thickness of 3/16")
- Anchors in the veneer must be at least 1-1/2" in from the backup but no closer to the veneer face than 5/8"
- Two-piece adjustable veneer anchors and 22 gauge corrugated sheet-metal anchors are spaced at least one anchor every 2.67 ft^2. All other veneer anchors are spaced one anchor for each 3.5 ft^2.
- Corrugated sheet-metal anchors and sheet-metal anchors are only allowed with wood backups
- Wire anchors are permitted with wood or masonry backups
- Steel Stud and concrete backups require two-piece adjustable anchors
- Seismic anchors with clips or hooks for mechanically attaching the veneer to the backup with a joint reinforcement wire have been eliminated by the TMS402 code in 2013

THE CONTRACTOR'S CHOICE

Pos-I-Tie®
MASONRY VENEER ANCHORING SYSTEM

For over 30 years, the Pos-I-Tie® Masonry Anchoring System has been the mason contractor's premier anchor of choice.

Specified by architects and preferred by contractors, the choice is easy!

The original.. and *still* the best!

THE FIRST BARREL SCREW
Premiering in 1985, the Pos-I-Tie® was the first barrel-screw masonry anchor to simultaneously penetrate the exterior insulation, make positive contact with the backup for transfer of lateral loads, and seal the hole in the insulation with an EPDM washer under the barrel head.

2-in-1 CONVENIENCE
Combined with the #610 Thermal-Grip® washer, the Pos-I-Tie® doubles as an insulation fastener and a masonry anchor, reducing the number of penetrations in the insulation.

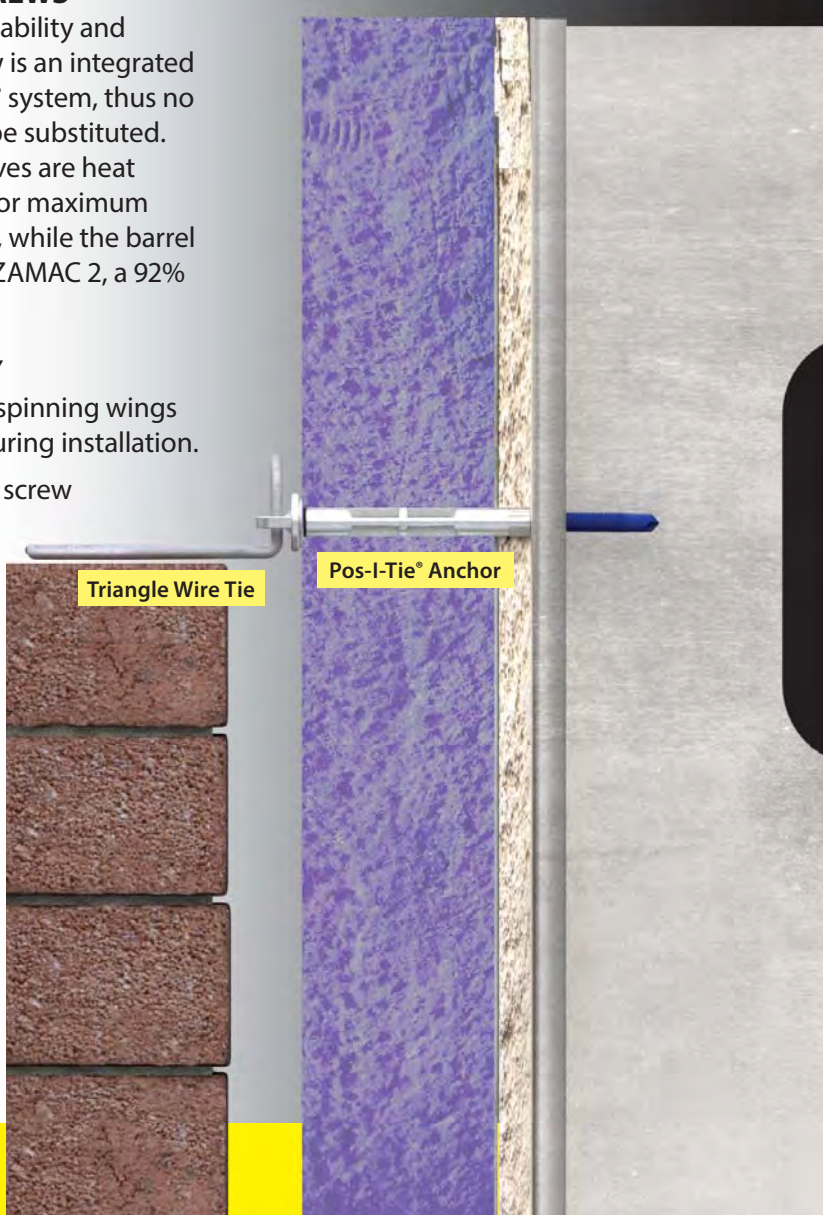
THREE STYLES
- The Original Pos-I-Tie®
- The Pos-I-Tie® ThermalClip®
- The Pos-I-Tie® KeyBolt

NO INFERIOR SCREWS
To ensure optimal stability and longevity, the screw is an integrated part of the Pos-I-Tie® system, thus no inferior screws can be substituted. The screws themselves are heat treated and plated for maximum corrosion resistance, while the barrel is manufactured of ZAMAC 2, a 92% zinc alloy.

INSTALLS SAFELY
Other anchors with spinning wings can cause injuries during installation.

The Pos-I-Tie® barrel screw installs safely with a rounded head and round chuck adapter, keeping fingers out of harm's way. This allows for consistent and efficient installation.

Pos-I-Tie® ThermalClip® with Thermal-Grip® Brick Tie Washer



Original Pos-I-Tie® Anchoring Systems

Compatible with all back-up walls

Self -Drilling Screw

Used for:
steel stud
18 ga – 14 ga

Concrete/CMU Screw

Used for:
concrete, CMU,
wood, brick, ICF

Structural Screw

Used for:
structural steel

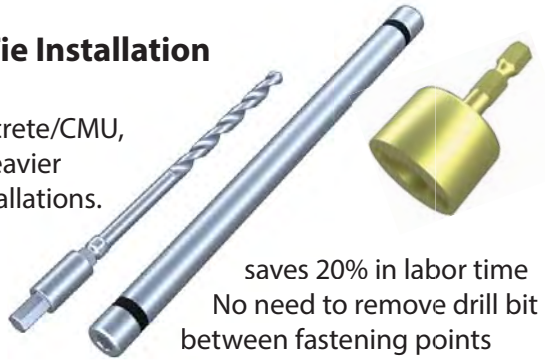
Barrel Lengths

- Standard: 5/8", 1", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", and 4-1/2"
- Custom lengths are available in 1/2" increments

Original Pos-I-Tie Installation Tool

Sleeve tool for concrete/CMU, wood, brick, and heavier structural steel installations.

- Using the sleeve



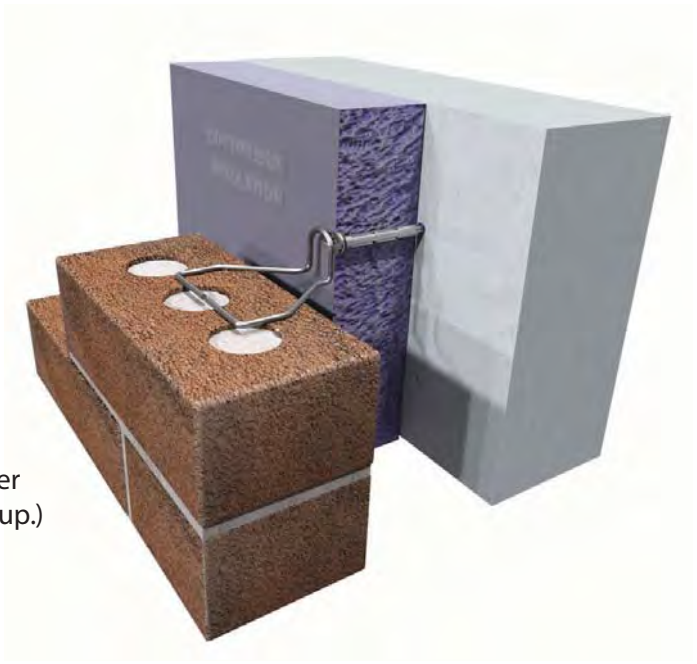
saves 20% in labor time
No need to remove drill bit between fastening points

Pos-I-Tie® Triangle Tie

Dimensions:
- 3/16" diameter

Materials:
- Mill galvanized steel
- Stainless steel
- Hot-dip galvanized after fabrication

All wire ties can be modified with a 20 gauge Seismic Hook tab for holding masonry reinforcement or pencil rod. These are factory-welded to the Pos-I-Tie® Wire Ties and meet Seismic Zone requirements. (The current building codes no longer require the use of exterior veneer reinforcement tied back through the wire ties to the backup.)



Triangle Tie

Seismic Tie

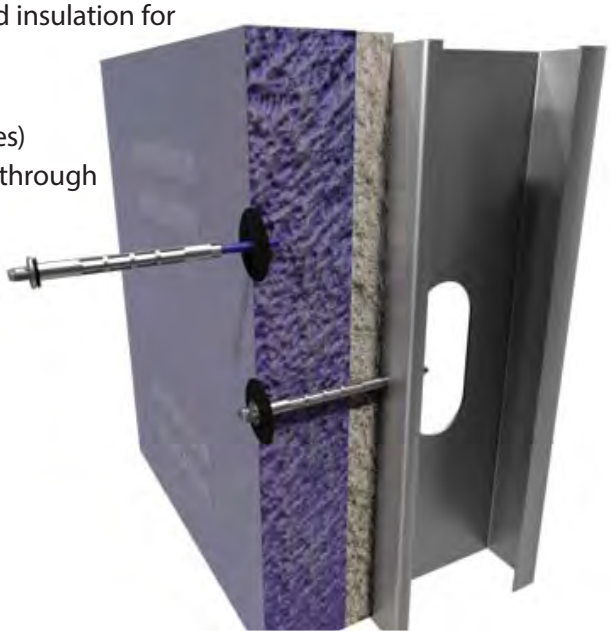
Thermal-Grip® Plastic Washers

610-S

Insulation manufacturers recommend the use of oversized washers to prevent wind blow-off during construction. These are typically installed 12" o.c. around the perimeter, and 16" o.c. throughout the sheet. Several insulation manufacturers require these washers for foil-faced insulation. Thermal-Grip® washers are designed for use with the Pos-I-Tie® Veneer Anchoring System. Prongs enable pre-spotting into rigid insulation for fast on-the-wall fastener assembly.

Features

- 2" dia. plastic washer with solid cap design (no keyholes)
- Stiffened center "bullseye" ring prevents fastener pull-through
- Flexible perimeter compresses on surface
- Prongs pre-spot into insulation
- Carbon black UV stabilizers
- Use with Pos-I-Tie® Brick Veneer Anchoring System
- Flattens on surface of insulation



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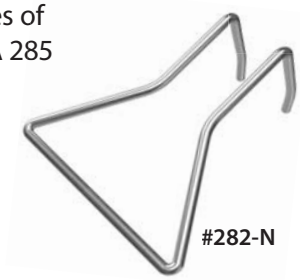
Pos-I-Tie® ThermalClip® System

The Pos-I-Tie ThermalClip® is designed to be used with the Original Pos-I-Tie Veneer Anchoring System. This new breakthrough in masonry construction adds thermal-break technology to all of the advantages of the Original Pos-I-Tie® Veneer Anchoring System. It has passed NFPA 285 Testing as part of the CavityComplete® Wall system.

#75-TC



#282-N

Features

- Decreases thermal transfer
- Highly flame-resistant
- Prevents galvanic reaction from dissimilar metals
- Allows for vertical adjustment of 1-1/4" above and below the barrel
- Transfers compression and tension loads to structural backup
- Tolerant in “freeze-thaw” conditions and with alkaline in mortar
- Offers speedy cost-saving installation

Wire Ties

#282-N Pintle Wire Tie for Pos-I-Tie ThermalClip®

Dimensions:

- 3/16" diameter

Materials:

- Type 304 stainless steel
- Hot-dip galvanized after fabrication

Pos-I-Tie® Stone Anchors

Dimensions:

- 1/8" or 3/16" thick x 2" wide only
- Vertical pintles for ThermalClip® are 1-1/8" center to center

Materials:

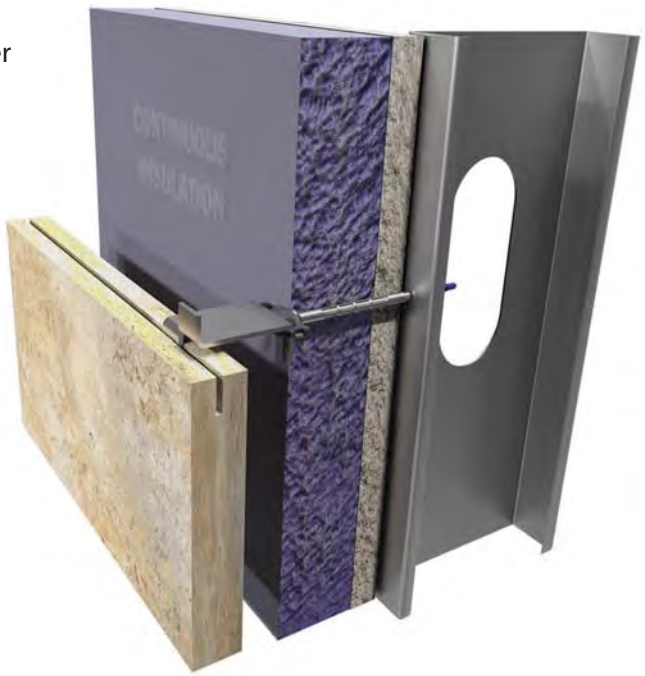
- Type 304 stainless steel

#78-P

#78-S

#78-U

#78-Z



Pos-I-Tie® KeyBolt System

The Pos-I-Tie® KeyBolt is designed for easy and effective stone anchor attachment where sheathing/insulation is installed over the backup wall. The KeyBolt system penetrates the sheathing, drills into the backup, and seals the hole to avoid water/air penetration. All compression loads are transferred to the backup through the KeyBolt without damaging the sheathing. When ordering, specify the type of stone anchor with the "KeyBolt Slot".

Features

- Ideal solution for stone veneer anchorage over sheathing and insulation
- Completely seals the hole blocking ALL air and moisture penetration
- Offers speedy cost-saving installation
- Allows for use of 4' x 8' insulation sheets
- Stainless steel

KeyBolt Barrel Components

1. Pos-I-Tie® keybolt barrel (including 2 hex nuts and EPDM washer
2. Barrel screw (self-drilling screw, concrete screw, or structural steel screw)
3. Anchor with KeyBolt Slot

Pos-I-Tie® KeyBolt Lengths

The Pos-I-Tie® KeyBolt Barrel is design to drill through the sheathing of an exterior wall and directly into the backup wall. It is available in 8 lengths to accommodate different sheathing thicknesses from 5/8" to 4-1/2".

Steel Stud Catalog Number	CMU/Concrete Catalog Number	Sheathing Thickness	Barrel Screw Overall Length
75KBSA	75KBSACON	5/8" – 1-1/4"	2"
75KBSB	75KBSBCON	1-1/4" – 2"	2-5/8"
75KBSC	75KBSCCON	2" – 2-1/2"	3-1/8"
75KBSD	75KBSDCON	2-1/2" – 3"	3-5/8"
75KBSE	75KBSECON	3" – 3-1/2"	4-1/8"
75KBSF	75KBSFCON	3-1/2" – 4"	4-5/8"
75KBSG	75KBSGCON	4" – 4-1/2"	5-1/8"
75KBSH	75KBSHCON	4-1/2" – 5"	5-5/8"

KeyBolt Stone Anchors

Available 1/4" – 16 gauge. Minimum width is 1-1/2". KeyBolt slot bend is a minimum of 2-1/4" O.D.

#276-KB

#274-KB

#275-UKB

#275-ZKB

#278-KB

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Screw-On Anchors

Dovetail Triangular Veneer Anchor

One-piece, non-adjustable anchors used for attaching brick veneer to an existing wall.

Dimensions:

- Standard size: 14 gauge x 1" wide clip with a 5/16" diameter hole attached to a 3/16" diameter wire triangle tie
- Lengths: 3", 4", 5", 6", 7", 9"
- Custom triangle tie lengths available on request

Material:

- Stainless steel
- Hot-dip galvanized after fabrication

#103-C

Adjustable Anchors

Two-piece, adjustable anchors used to attaching brick veneer to a masonry wall with appropriate fasteners. Use #316 Triangle Wire Ties for anchoring to masonry veneer (see page 84).

#315-C

Screw-On Anchor Strap

Dimensions:

- 12 gauge x 7/8" wide x 6-1/2" long with 1/4" diameter holes

Material:

- Stainless steel
- Hot-dip galvanized after fabrication

Screw-On Anchor Plate

Dimensions:

- 14 ga. or 12 ga. x 1-1/4" wide x 6-1/2" long with 1/4" diameter holes

Material:

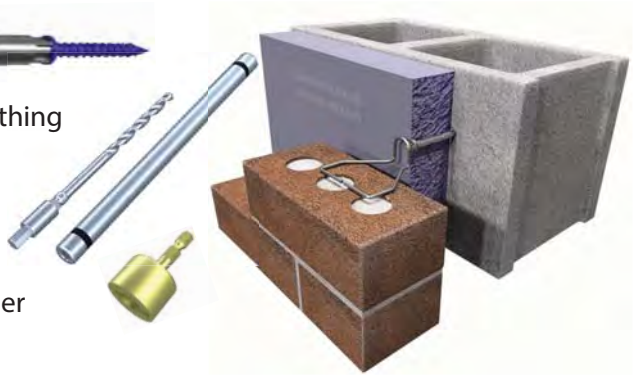
- Stainless steel
- Hot-dip galvanized after fabrication

#315-D

Pos-I-Tie® CMU Barrel Screw System

See pages 68 – 69 for details.

- Use the Pos-I-Tie® sleeve tool for speedy installation in sheathing 4" or less
- The sleeve tool allows drilling the hole and installing the barrel screw with one drill
- Using the #610 Thermal-Grip® washer allows the Pos-I-Tie® to be a masonry anchor AND a continuous insulation fastener



Rigid Steel Anchors for Intersecting Walls


#272

Rigid Steel Anchor

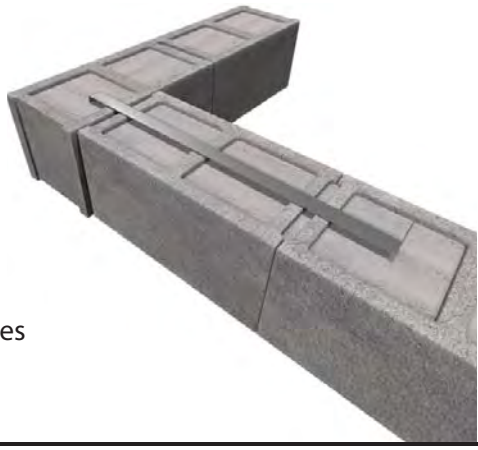
Used as a tie between intersecting masonry walls. The TMS402 Building Code requires placement every 4 feet vertically and the cells must be grouted.

Dimensions:

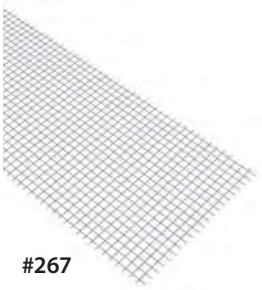
- 1/4" thick x 1-1/2" wide x 24" long with 2" bends
- See (page 88) #140 Z-Type Stone Anchor for custom sizes

Material:

- Hot-dip galvanized after fabrication



Mesh Wall Ties


#267

Plastic Mesh Wall Tie

Used to prevent grout from falling through the block core

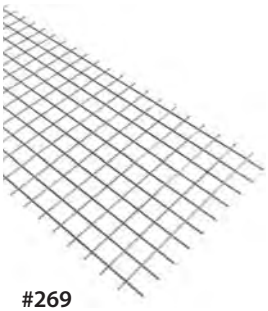
- Allows mortar bond between blocks

Dimensions:

- Available in 100 ft. rolls for 6", 8", 10" and 12" block

Material:

- Manufactured from 1/4" x 1/4" monofilament that is corrosion-proof and biologically inert


#269

Wire Mesh Wall Tie

Used as a tie between intersecting masonry walls.

Dimensions:

- 4" x 8" 1/4" square mesh
- Custom sizes are available

Material:

- Hot-dip galvanized after fabrication

Control Joint Anchor


#353

- Allows for load transfer across control joints
- Inhibits lateral movement
- Resists out-of-plane shear forces while allowing for in-plane movement of the masonry

Dimensions:

- Thickness: 22 gauge
- Length: 1-1/2" wide x 10" overall length

Materials:

- Stainless to stainless
- Stainless to plastic
- Mill galvanized to mill galvanized

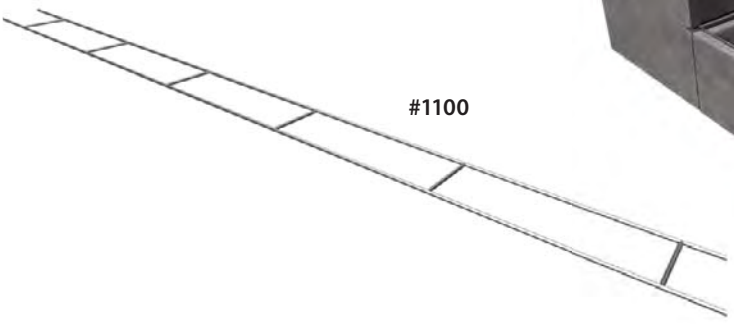
Masonry Wall Reinforcements

Dimensions:
- Standard: 9 gauge wire conforming to ASTM A951 / A951M-06 for CMU walls 4", 6", 8", 10", and 12"
- Heavy Duty: 3/16" side rods and 9 gauge cross rods
- Extra Heavy Duty: 3/16" side rods and 3/16" cross rods
- Lengths are 10' 8"

Materials:
- Mill galvanized
- Hot-dip galvanized after fabrication
- Type 304 stainless steel

Ladder-Type Wall Reinforcement

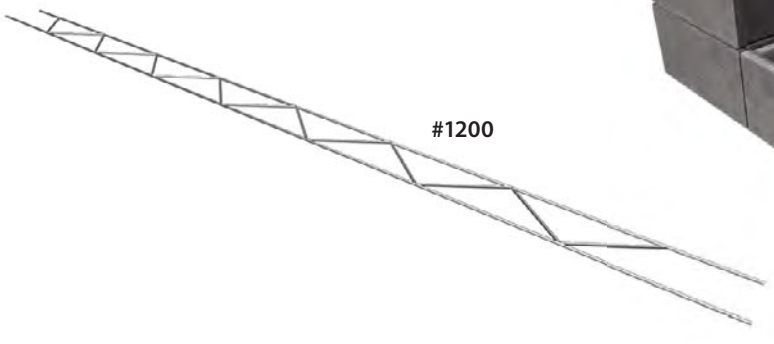
Cross wires spaced 16" o.c. to allow block cores to be open for vertical rebar.



#1100

Truss Type Wall Reinforcement

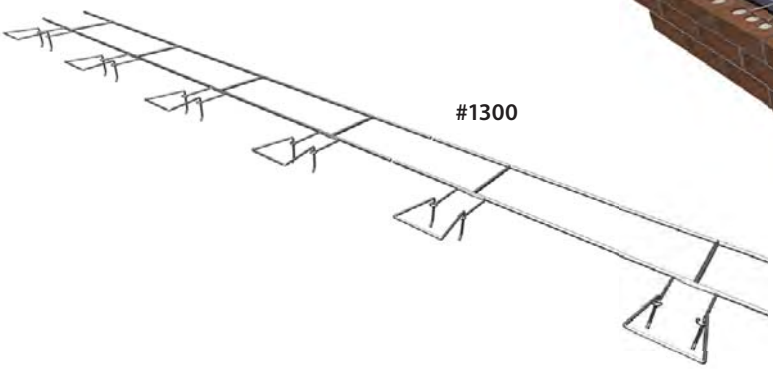
Diagonal cross wires spaced 16" o.c.



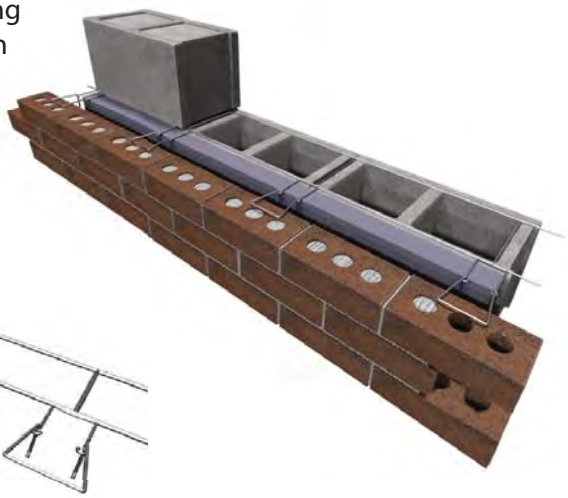
#1200

Ladder Pintle Eye Wall Reinforcement

Pintle wire eyes are spaced 16" o.c. and conform to TMS 402 Building Code. Cross wires are 16" o.c. Specify insulation thickness for length of the pintle eyes as well as length of pintles into veneers.



#1300



Wire Wall Ties (Non-Adjustable)

Z Wire Tie

Used to bond masonry veneer to a masonry back-up wall or two masonry walls

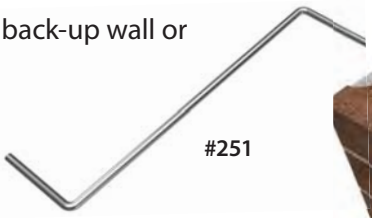
Dimensions:

- 3/16" diameter in lengths of 6", 8", 10", 12" with 2" bends

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication
- Mill galvanized

Note: The TMS402 Masonry Building Code no longer allows drips on anchors.



Rectangular Wire Tie

Used to bond masonry veneer to a masonry back-up wall or two masonry walls

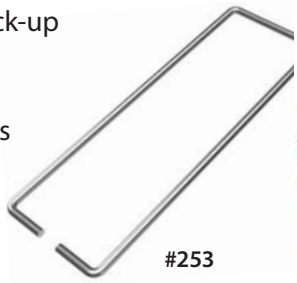
Dimensions:

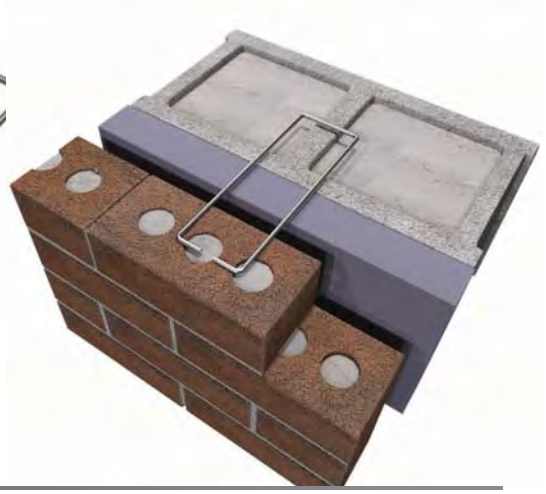
- 3/16" diameter in widths of 2" or 4" and lengths of 6", 8", 10", or 12"

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication
- Mill galvanized

Note: The TMS402 Masonry Code no longer allows drips in anchors.





Wire Wall Ties (Adjustable)

Used to secure a masonry veneer to a masonry backup wall

262 Double Eye Rod Anchor

Dimensions:

- 3/16" diameter wire
- Width: 2-1/2"
- Lengths: 2-3/4" and 4-3/4"

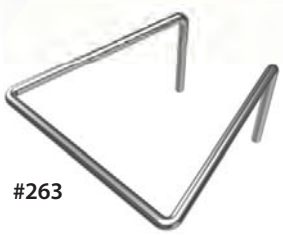
263 Double Pintle Tie

Dimensions:

- 3/16" diameter wire
- Lengths: 3-1/4", 4-1/4", 5-1/4"
- Pintle tie vertical adjustment: 1-1/4"

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication
- Mill galvanized



Weld-On Anchors

Anchor Rods

Rods are welded to structural columns for adjustable attachment of masonry/veneer walls. Use #316 Triangular Ties or #318 Web Ties for attachment into masonry.

Weld-On Anchor Rod

Dimensions:

- 1/4" diameter in lengths of 5" or 9"
- Offset: 3/8" offset provides 4" of vertical adjustment for 9" long and 2" vertical adjustment for 5" long

Materials:

- Plain steel
- Mill galvanized

#315

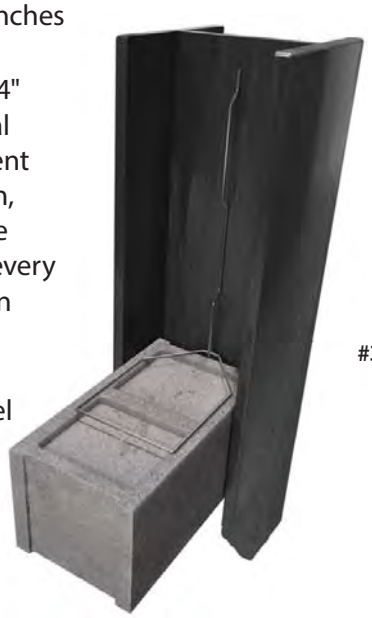
Continuous Weld-On Anchor Rod

Dimensions:

- 1/4" diameter x 6 feet 8 inches
- 6 offsets with 7-3/4" of vertical adjustment with each, which are spaced every 16-1/4" on center

Materials:

- Plain steel



#317

Channel Slots

Channels are welded to structural columns for adjustable attachment of masonry/veneer walls. See page 86 for Channel Slot System.

Weld-On Channel Slot

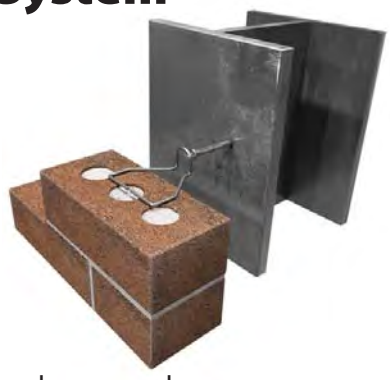
#130

#133

Pos-I-Tie® Structural Steel Barrel Screw System

See pages 68 – 69 for details.

- The structural steel screw drills and taps 1/2" thick and less mild structural steel without pre-drilling a hole
- Use of the Pos-I-Tie® anchor in the web of a beam with a long barrel allows for a shorter wire tie and greater compression strengths



Beam Flanges Parallel to Wall

Dimensions:
- Standard: 1/8" x 2" wide x 7" long with a 1-1/2" bend; 5/8" x 1" notch starting 1" from end of anchor
- Custom sizes are available

Materials:
- Stainless steel
- Hot-dip galvanized after fabrication
- Rolled strip zinc alloy 710 firewall material

#196

#189

Beam Flanges Perpendicular to Wall

Dimensions:
- Standard: 1/8" x 1-1/4" wide with a 1-1/2" bend into masonry with a 1-1/4" hook at the column
- Specify length and provide flange dimensions
- Twist is 1-1/2" long

Materials:
- Stainless steel
- Hot-dip galvanized after fabrication

#197-T

#195

Wire Column Anchors

Dimensions:
- 3/16" diameter with a 2" bend

Materials:
- Stainless steel
- Hot-dip galvanized after fabrication

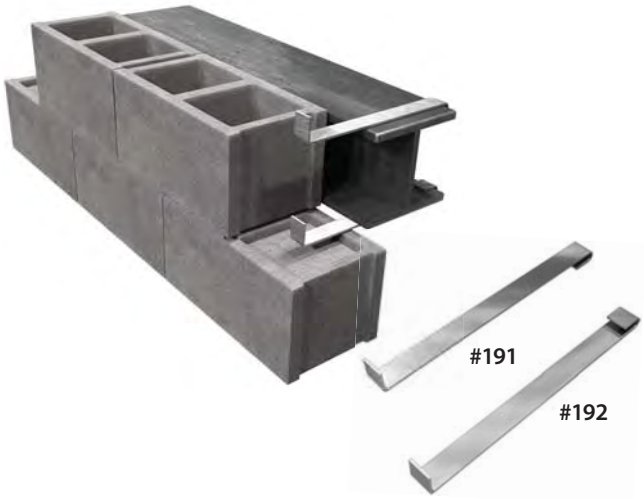
#216

#217

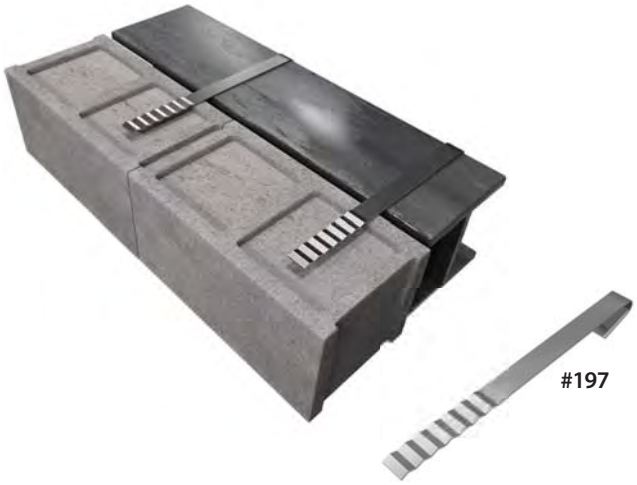
Horizontal Beam Anchors

Attachment to Flange

Dimensions:
- Standard: 1/8" x 1-1/4" wide in lengths of 10", 12" and 14" with a 1-1/2" bend
- Custom sizes are available



Materials:
- Stainless steel
- Hot-dip galvanized after fabrication

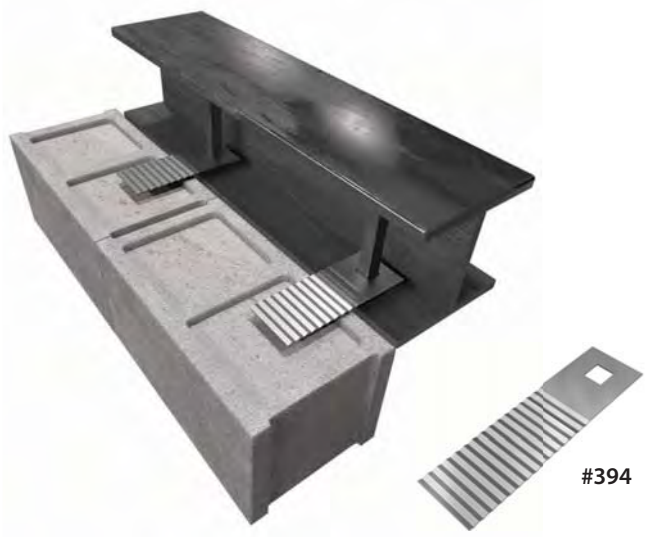


Attachment to Web

Welded to structural steel beams, typically in the web of a horizontal beam

Dimensions:
- 1/8" x 7" high with a 1/4" x 5" slot
- 1" bend for welding to a beam

Materials:
- Plain steel



Anchor is pre-loaded on a sliding bar which is then welded on the steel beam

Dimensions:
- Made to order in 3/16" or 1/8" x 3-1/4" wide – specify overall length
- Specify size of sliding bar: 1/2", 3/4", 1"

Materials:
- Stainless steel
- Hot-dip galvanized after fabrication
- Rolled strip zinc alloy 710 (1/8" only) firewall material

Corrugated Wall Ties

Used to bond masonry veneer to a wood frame backup wall with maximum 1" airspace. These are permitted only on wood backup walls.

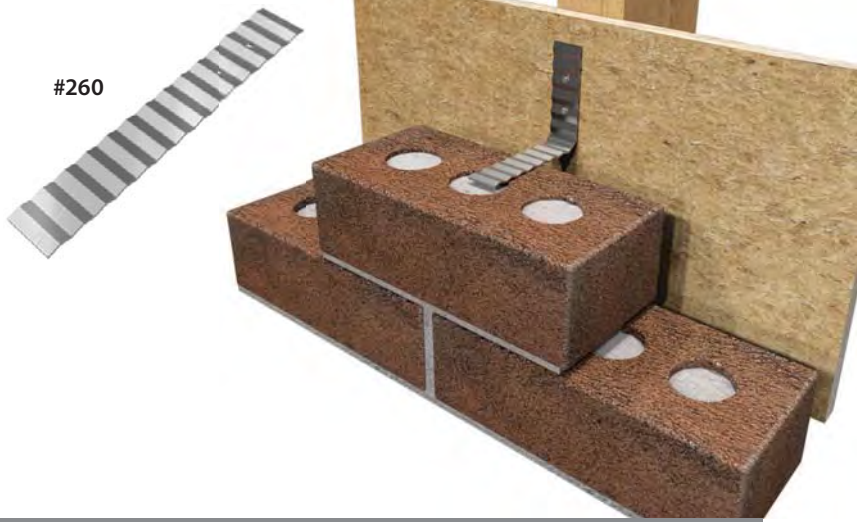
Dimensions:

- Standard Sizes: 7" long x 7/8" wide x 22 gauge (minimum thickness allowed by code)
- Custom sizes are available

Materials:

- Stainless steel

Note: TMS402 Building Code allows corrugated wall ties on wood frame backup walls with a maximum airspace of 1". For larger airspaces, use the Corrugated Brick Anchor below.



Sheet Metal Anchors

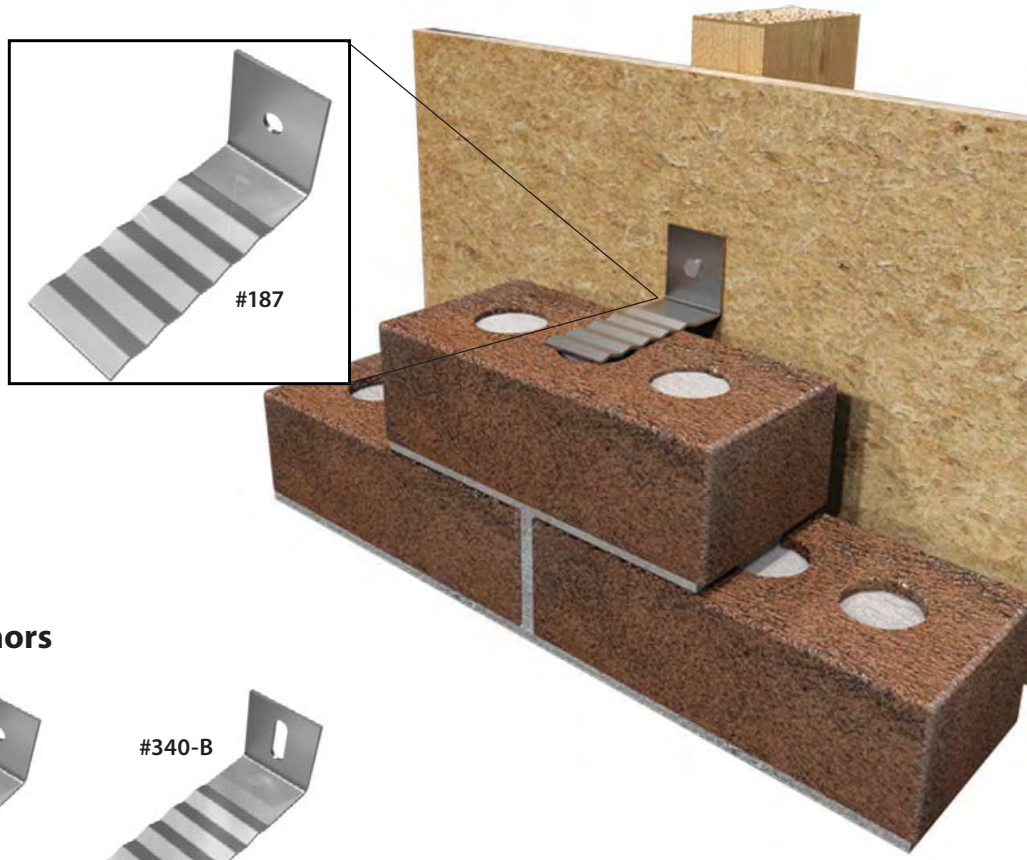
Corrugated Brick Anchor

Dimensions:

- Standard: 16 gauge x 1-1/4" wide in lengths of 3-1/2" or 5-1/2" with a 1-1/2" bend and centered 5/16" diameter hole
- See 340 below for custom sizes

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication
- Mill galvanized
- Zinc alloy 710 (Firewall)



340 Custom Corrugated L-Anchors

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Joist Pin Anchors

Both anchors are used to anchor wood joists to a masonry wall:

- #586 for side of joist
- #585 for top or bottom of joist

Dimensions:

- Standard: 1/8" x 1" wide x 18" long with 3 holes spaced 3" o.c. starting 3/4" from end
- Pin is 3/8" diameter x 5" long
- #586 has a twist starting 4" from the pin

Material:

- Mill galvanized

#585

#586

The following anchors can also be used for wood backups:

#103-C
See page 73

#315-C
See page 73

#315-D
See page 73

Pos-I-Tie® with Wood Backup

See pages 68-69

- Barrel portion will not penetrate OSB or plywood sheathing. Order barrel length for insulation thickness only.
- If using gypsum and insulation, the barrel will go through both and contact the stud. Add both gypsum and insulation thickness together for barrel length.

Masonry to Steel Studs

Plate Anchor & Pintles

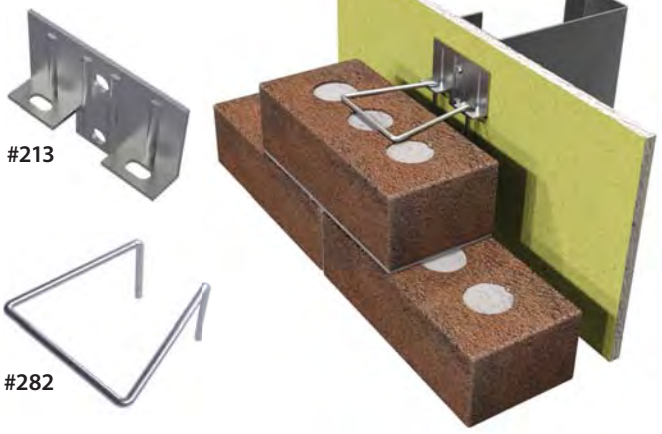
#213 Double Pintle Plate Veneer Anchors are attached directly to the backup system. Insulation/mineral wool is then placed above and below the horizontal tab. Use with #282 Double Pintle Wire Tie.

Dimensions:

- #213 (14-gauge plate) works with the following insulation thicknesses: no insulation, 1", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4"
- #282 wire ties are 3/16" diameter, in lengths of: 3-1/4", 4-1/4", and 5-1/4"

Material:

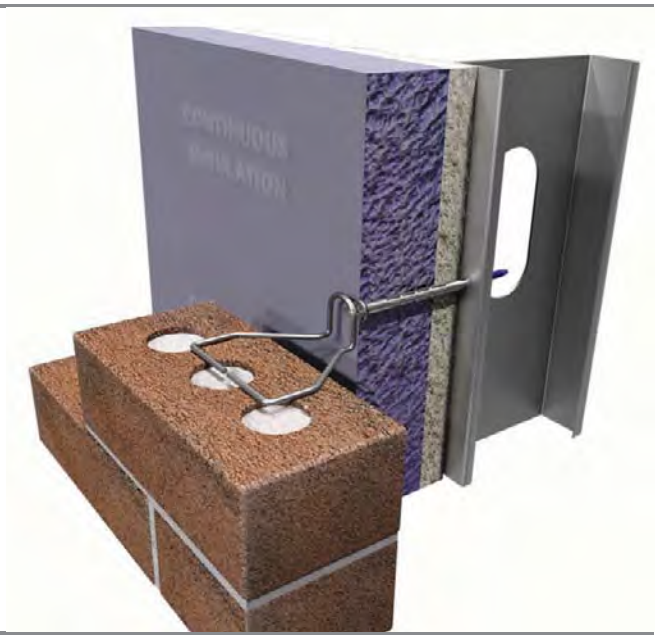
- Stainless steel
- Hot-dip galvanized after fabrication



Pos-I-Tie® with Steel Studs

See Pos-I-Tie System (pp 68–69)

- Locate the stud and drill directly through the sheathing – no pre-drilling required
- When the screw hits the stud, it will take a few seconds to drill and tap into the stud
- If the barrel screw goes right in without stopping for a few seconds, you missed the stud



Masonry to Concrete

Dovetail Anchors

For concrete backups with cast-in-place dovetail anchor slot

Dovetail Triangular Veneer Anchor

See page 73 for product description. These anchors fit into the dovetail slot for masonry attachment to concrete.

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Dovetail Anchors, *continued*

Dovetail Corrugated Anchor

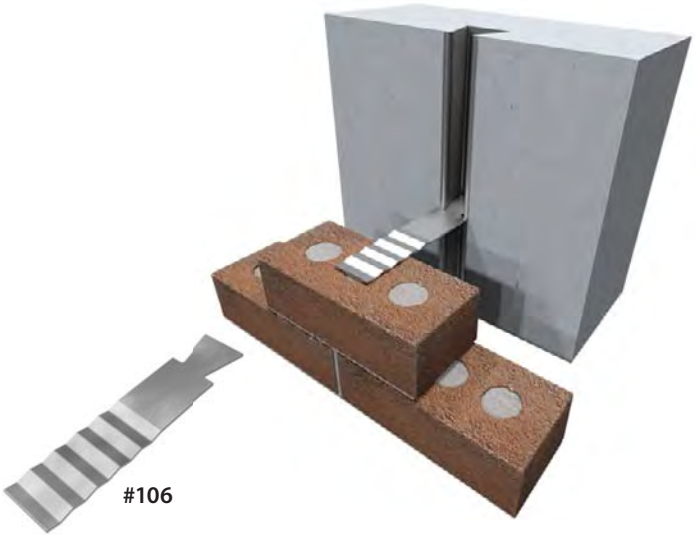
- For brick veneer

Dimensions:

- Standard: 16 gauge or 12 gauge x 1" wide in lengths of 3-1/2", 5-1/2", and 7-1/2"
- Custom sizes available: thickness up to 3/16" and lengths up to 15"
- Lengths are measured from the face of the concrete

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication



Dovetail Stone Anchors

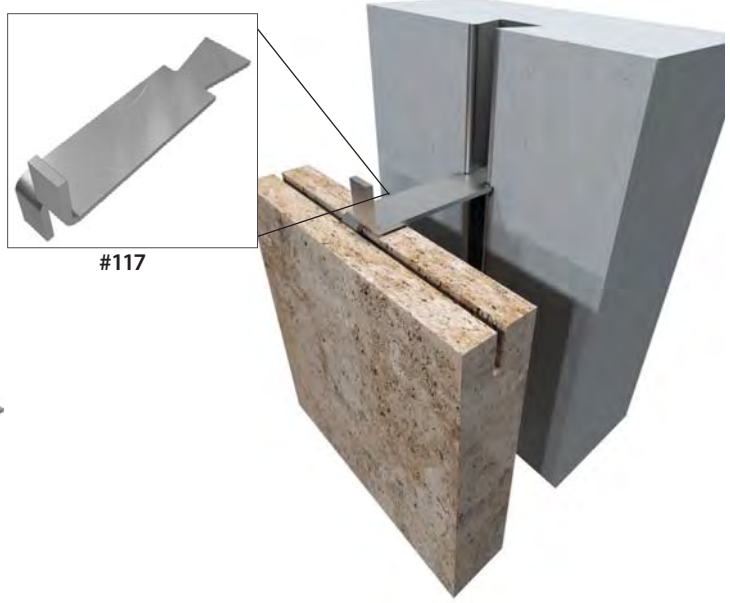
The following made-to-order dovetail anchors can be used with CMU or stone veneers.

Dimensions:

- Thickness: 14 or 12 gauge, 1/8" , 3/16", or 1/4"
- Width: 1" wide
- Specify length measured from the face of concrete to the end of the anchor

Material:

- Type 304 Stainless Steel



Pos-I-Tie® with Concrete Back

See Pos-I-Tie System (pp 68–69)

Original Pos-I-Tie Installation Tool

- Using the sleeve saves 20% in labor time
- No need to remove drill bit between fastening points

Masonry Wire Ties

Triangular Wire Tie

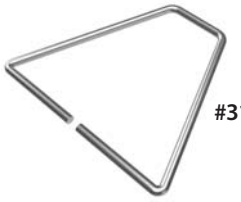
- Wire anchor used with adjustable backup anchors for attaching brick or CMU to backup

Dimensions:

- 3/16" diameter in lengths of 3", 4", 5", 6", 7", or 9"

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication



#316

Web Tie

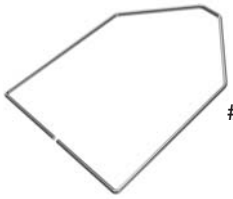
- Wire anchor used with adjustable backup anchors for attaching brick or CMU to backup at intersecting walls

Dimensions:

- 3/16" diameter x 12" long
- Specify wall size

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication



#318

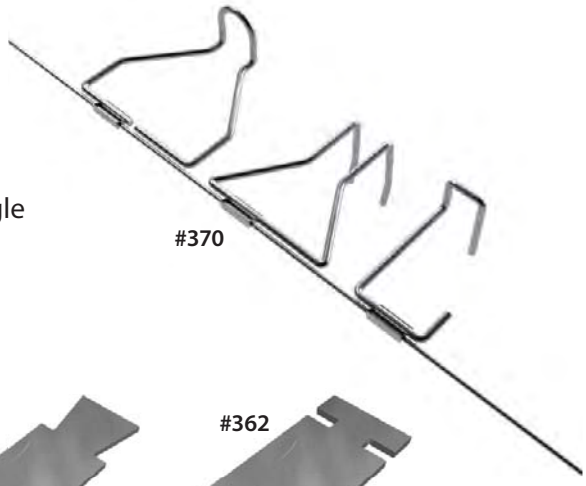
Seismic Veneer Anchors

The 2013 TMS 402 Building Code and 2015 International Building Code no longer require the use of continuous wire in the brick veneer for high seismic zones. These may still be required in areas under the jurisdiction of earlier codes.

Seismic Hook Tab

This 20-gauge clip can be welded onto any of the Heckmann wire ties.

Typical wires for seismic applications are the Pos-I-Tie® triangle and pintle wire ties, #316 triangle ties, and #103-C dovetail triangle veneer anchors.



#370

Notched Seismic Veneer Anchors

Dimensions:

- 14 gauge
- Custom sizes are available

Material:

- Type 304 Stainless Steel

#360

#361

#362

Plastic Seismic Clip

Plastic clip for attaching any 3/16" or 9 gauge masonry veneer anchor to a single horizontal reinforcing wire in the veneer.

#363

Masonry Wall Stabilizing Anchors

Partition top anchors provide lateral shear resistance at the top of masonry walls while allowing for vertical deflection of the slab/beam above without transferring the lateral loads to the masonry wall below.

Pin Stabilizing Wall Anchor

This anchor is installed by either welding the plate to a structural beam or fastening it to a concrete slab with expansion anchors. The plastic tube is grouted into the CMU cell.

Dimensions:

- Standard: 12 gauge plate 1-1/2" wide x 3" long with a welded 3/8" diameter x 6-3/4" rod. Plastic tube is included in the box
- Custom sizes are available. Order #421 tubes separately when ordering custom anchors

Material:

- Hot-dip galvanized after fabrication


#419

Plastic Tube for Stabilizing Anchor

This plastic tube is used with #121 Dovetail Rod Anchor. The plastic tube has a foam filler on one end to prevent grout penetration. The #121 rod is placed into the tube and, when grouted into the CMU, it allows for vertical deflection of the wall.

Dovetail Rod Anchor

The Dovetail Rod Anchor is used with a #421 plastic tube. When the joint is filled with grout, the tube allows the rod to move freely. The concrete slab must have a cast-in-place dovetail anchor slot.

Dimensions:

- Dovetail section is 12 gauge
- Welded rod is 3/8" diameter x 7" long

Material:

- Stainless steel
- Hot-dip galvanized after fabrication


#121

Cap Stabilizing Wall Anchor

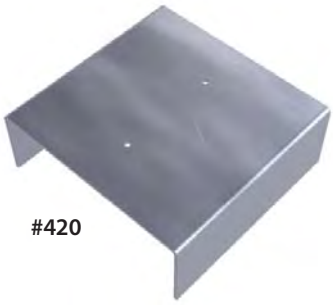
Used to resist lateral loads at the top of a masonry wall and allow for vertical deflection. Steel bends will be visible at the top of the CMU wall.

Dimensions:

- Standard: 1/8" thick x 8" long with 3" bends for block sizes of 4", 6", 8", 10", and 12"
- Custom sizes and widths are available

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication
- Mill galvanized


#420

Channel Slots

Channel slots are welded to structural beams or fastened to existing concrete/CMU with expansion anchors. They can also be used to replace dovetail anchor systems for concrete walls that were not cast with dovetail slots.

Dimensions:

- #130: 11 gauge and 16 gauge x 1-3/8" wide x 8" long; slot is 9/16" x 5-1/2"; holes are 9/32" diameter
- #133: 16 gauge, 14 gauge, 12 gauge x 1-3/8" wide; slot is 9/16" x 7-3/4"; lengths are 5' (7 slots) and 10' (14 slots)
- Bends are 1/2" I.D.

#130

#129

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication
- Plain steel

#133

#134

Channel Slot Triangular Wire Tie

Dimensions:

- Standard:
  - Clip: 12 gauge thick x 1-1/4" wide
  - Triangular tie lengths: 3", 4", 5", 7" from face of channel
- Custom triangle lengths available

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication

Channel Slot Corrugated Anchor

Dimensions:

- Standard: 16 gauge x 1-1/4" wide in lengths of 3-1/2", 5-1/2" ,and 7-1/2" from face of channel
- Custom lengths: Available in thicknesses up to 3/16"

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication

Channel Slot Stone Anchors

Dimensions for #135, #136 and #138:

- Thickness: 3/16", 1/8", 11 gauge, 12 gauge, 14 gauge, 16 gauge
- Length: minimum 1-1/2" measured from face of channel slot
- Width: 1-1/4"

Material:

- Stainless steel

Dimensions for #137

- Allow a minimum of 1/4" – 1/2" of steel between the start of the pin and the end of the anchor
- Pins:
  - Length: Specify overall length of pin
  - Diameter: 1/4", 3/8", 1/2", 5/8"
  - Pins are available loose or welded in-place (pins furnished loose allow the installer to use the anchor as a template for drilling the hole into the stone)

L-Stone Anchor #135

Specify o.d. bend length

Split-Bend Anchor #136

Specify o.d. split-bend length

Flat Anchor #138

Pin Anchor #137

See notes

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Break-Away / Melt-Away Firewall Anchors

2018 IBC Section 706.2 requires masonry fire walls to be designed and constructed to allow collapse of the structure on either side without collapse of the wall under fire conditions. Anchors attaching the firewall to CMU, concrete or steel must have the capability of providing structural performance but "detach" during a fire. Rolled zinc alloy 710 material has corrosion resistance equal to hot dip and melts at 792°.

Mechanical/Physical Properties of Rolled Zinc Alloy 710	
Density (lb/in^3)	.0259
Melting Point (F)	792
Tensile Strength (ksi)	21 - 28
% Elongation (in 2")	30 - 45
Olsen Ductility (in.)	.25 - .35
Hardness (R15T)	55 – 68
Shear Strength (ksi)	24 – 28
Yield Strength (ksi)	28

Below are several popular Heckmann anchors used as firewall anchors. The majority of our non-wire anchors can be manufactured from the rolled zinc alloy 710 material. Choose your non-wire anchor from this catalog or email your specific anchor to us for pricing. The zinc alloy 710 material is **ONLY available in 1/8" and 16 gauge thicknesses.**

#341

#341-A

#341-B

#342

#342-A

#342-B

#187

#189

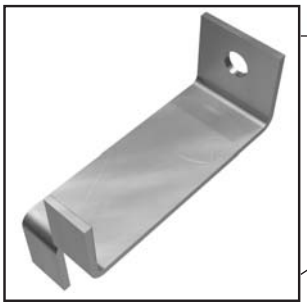
#274

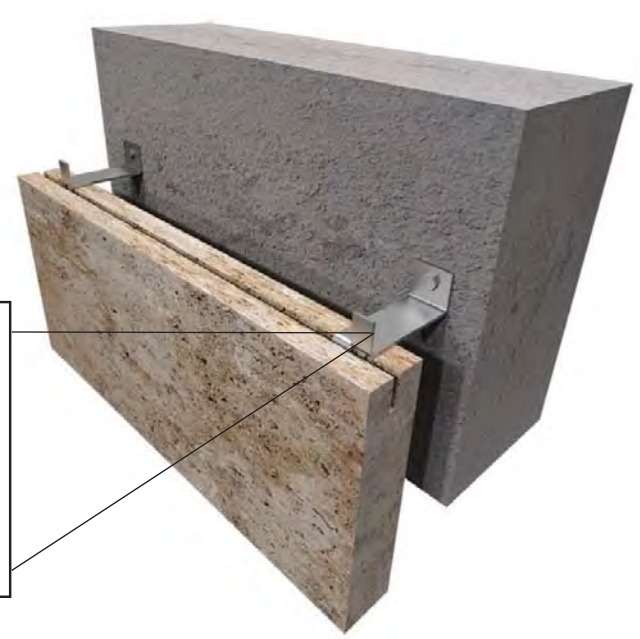
#394

#135

#275-Z

Heckmann Building Products has been manufacturing custom fabrications for over 90 years. If you don't see a specific style below, please email your custom detail to us for pricing and fabrication evaluation. Anchors are fabricated in Type 304 or Type 316 stainless steel in thicknesses up to 1/2".





With the combined capabilities of our three companies we are excited to offer fasteners necessary for your anchoring needs.
***(see next page 89)**

Various Stone Anchors

#140-Z


#141-U


#143


#144


#145


#148


#277


#298


#274


#275-U


#275-Z


#276


#278


#284


#285


#287


#150


#150-A


#151


#152-L


#152-S


#154


#154-A


#157-A


#179


#180


#181


#182


#183


#167


#173


#174


#160


#161


#177-D


#163


#166


#355


#177

#155

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Fasteners Manufactured by wej-it

Wej-It High-Performance Anchors offers a full line of fastening solutions that can be used for a variety of Heckmann products, including Stone Anchors. See examples below:

See Page 20

See Page 29

See Page 33

Angles and Lintels

All Heckmann angles and lintels are custom-fabricated to your design requirements.

Angle Clips

#700

Bent Plates

#754

#755

Anchor Plates

#742

#741

#730

Rubble Stone Anchor

#398-C

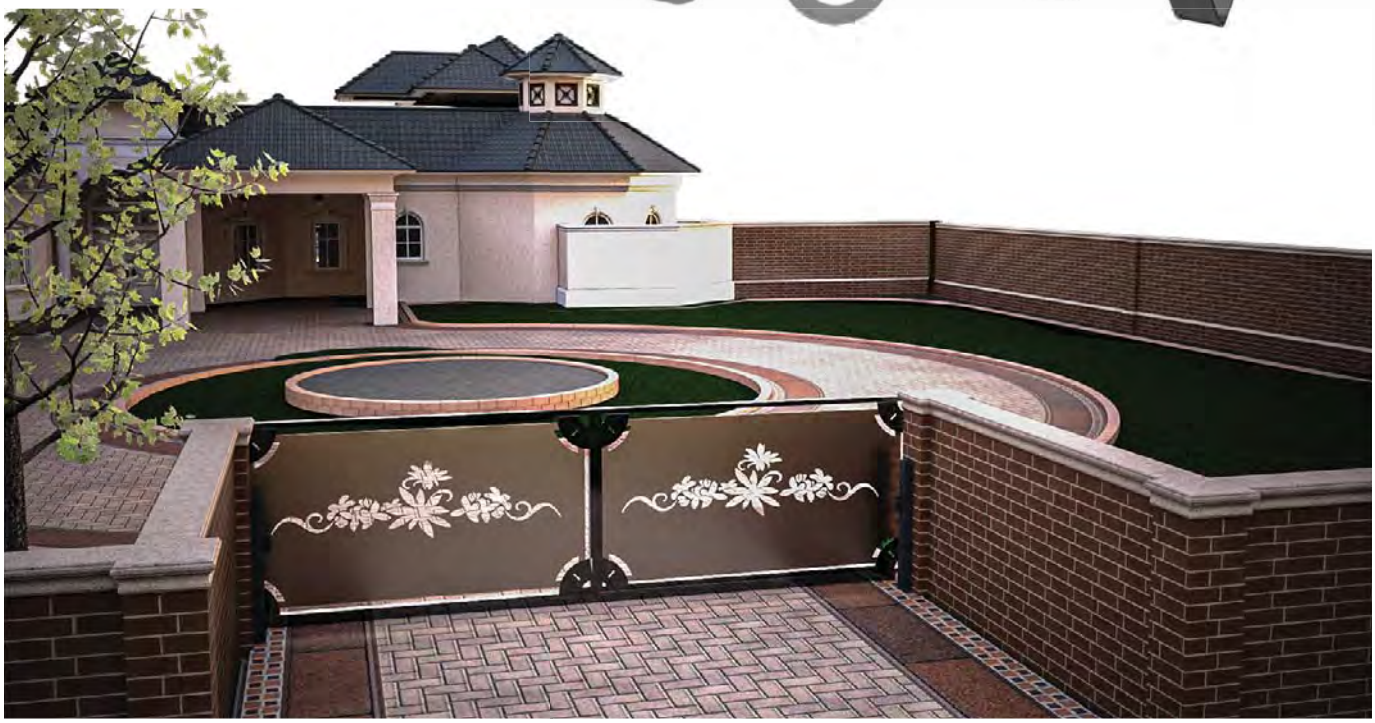
#398-J

#398

Specialty Laser Cutting & Other Custom Metal Fabrication

Heckmann Anchors, Div. of Mechanical Plastics Corp. has invested significantly in state-of-the-art machinery and human expertise to meet your needs for custom fabricated metal parts for interior and exterior applications, making your professional life easier.

- **Cutting:** We utilize the most advanced laser technology available to shape precisely what you need from carbon steel, stainless steel, brass, copper, aluminum, or titanium.
- **Fabrication:** Cutting, bending, welding, assembly … all at your disposal to create metal parts meeting your designs and your custom specs … always on a timely, cost-effective basis.
- **Design:** Two heads (or more) are always better than one. Our team will collaborate with yours to conceive and design the solutions that you need.
- **Prototypes:** If you're having a challenge bringing your concept to life, let us create a prototype for you to approve before production begins.
- **Rush Delivery:** We know how time-critical your projects can be. Our team knows how to deliver what you need when you need it.



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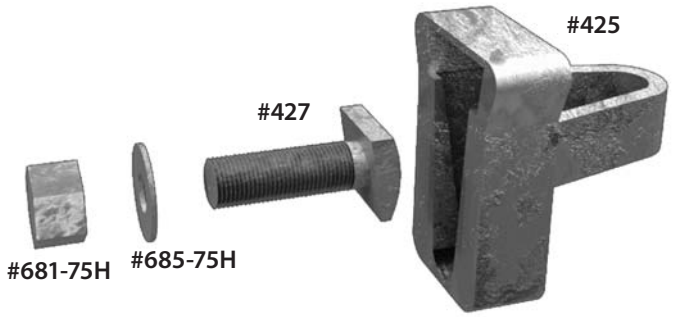
Shelf Angle Wedge Inserts and Askew Head Bolts

When cast into concrete, Shelf Angle Wedge Inserts and Askew Head Bolts provide a secure and adjustable method for fastening shelf angles and other materials to concrete structures. The inserts allow vertical adjustment so veneers can be properly aligned despite construction tolerances in the building frame.

Catalog No.	Item	Material	Bolt Dia.	Length
425-6LH	Wedge Insert	Hot-Dip Galvanized	3/4	Long
425-6H	Wedge Insert	Hot-Dip Galvanized	3/4	Regular
42762H	Bolt	Hot-Dip Galvanized	3/4	2
427625H	Bolt	Hot-Dip Galvanized	3/4	2-1/2
42763H	Bolt	Hot-Dip Galvanized	3/4	3
681-75H	Hex Nut	Hot-Dip Galvanized	3/4	-
685-75H	Flat Washer	Hot-Dip Galvanized	3/4	-

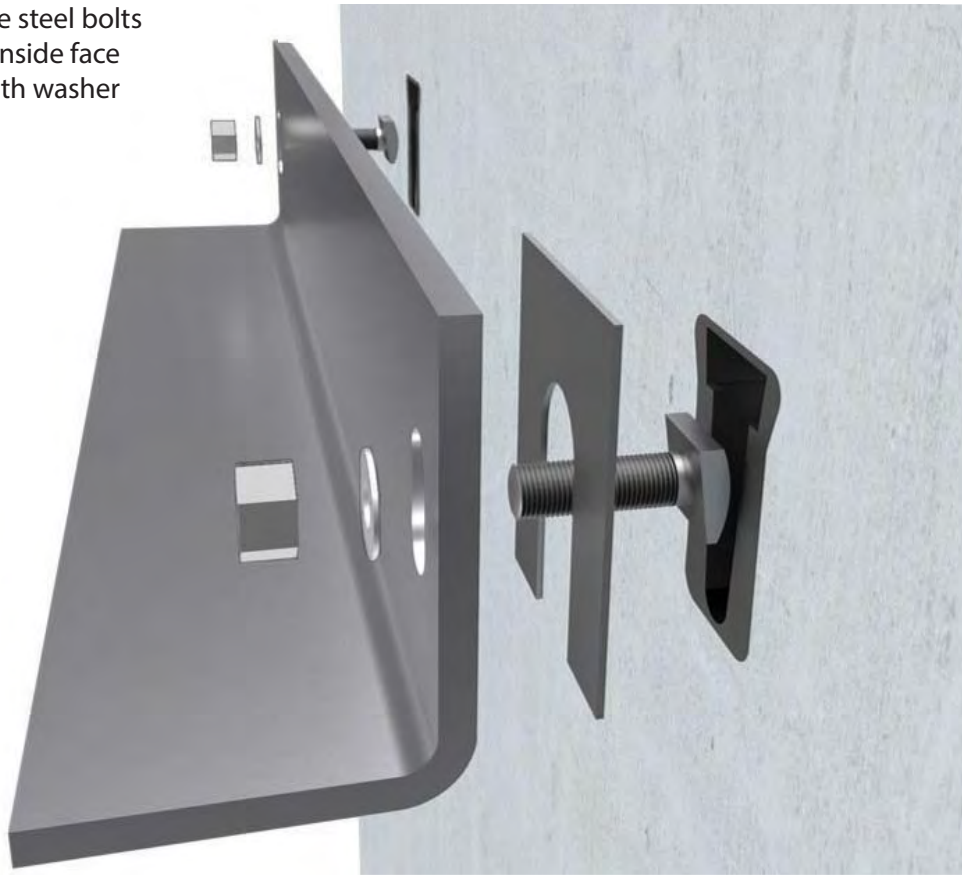
425 Shelf Angle Wedge Inserts

These heavy-duty, malleable iron inserts have three holes for nailing to forms. Anchor loops are designed to take reinforcing bars or anchor rods for increased anchorage in concrete.



427 Askew Head Bolt

The wedge-shaped heads of these steel bolts complement the wedge-shaped inside face of the Wedge Insert. Furnished with washer (**685-75H**) and nut (**681-75H**).



Threaded Inserts

Threaded inserts are cast into concrete or precast panels. The insert plugs are nailed to the form and removed after concrete sets.

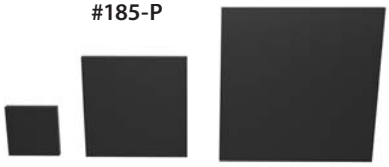
#444 Star Threaded Inserts and #446 Insert Plugs

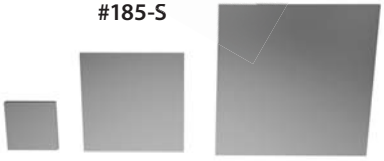
Diecast Zamac 5 zinc alloy inserts offer strength and corrosion resistance.

444 No.	Size	Length	446 Plug No.
P-15-T	1/4 x 1-1/2	1-1/2"	P-15-A
P-24-T	3/8 x 1	1"	P-25-A
P-25-T	3/8 x 1-3/8	1-3/8"	P-25-A
P-35-T	1/2 x 1-1/2	1-1/2"	P-35-A
P-36-T	1/2 x 2-7/8	2-7/8"	P-35-A
P-45-T	5/8 x 1-11/16	1-11/16"	P-45-A
P-46-T	5/8 x 2-7/8	2-7/8"	P-45-A
P-55-T	3/4 x 1-11/16	1-11/16"	P-55-A
P-56-T	3/4 x 2-7/8	3"	P-55-A

Shims

Shims available in both plastic and metal. Metal shims can be cut to any size.





Horse-Shoe Shims

- Used to shim shelf angles when concrete walls are not plumb

Plastic Horse-Shoe Shim Washers

- High impact multi-polymer plastic shims with up to 4500 psi compressive strength

Catalog No.	Thickness	Size (width x height)	Bolt Size
442-16	1/16	1-1/2 x 2	1/2
442-36	1/16	1-1/2 x 3-1/2	1/2
442-26	1/16	2-5/16 x 3	3/4
442-18	1/8	1-1/2 x 2	1/2
442-38	1/8	1-1/2 x 3-1/2	1/2
442-28	1/8	2-5/16 x 3	3/4
442-14	1/4	1-1/2 x 2	1/2
442-34	1/4	1-1/2 x 3-1/2	1/2
442-24	1/4	2-5/16 x 3	3/4

Steel Horse-Shoe Shim Washers

Shims should be as long as the vertical legs of the angles to prevent the angles from deflecting under load

- Made to order: Specify length, width, thickness (up to 3/8") and slot dimensions

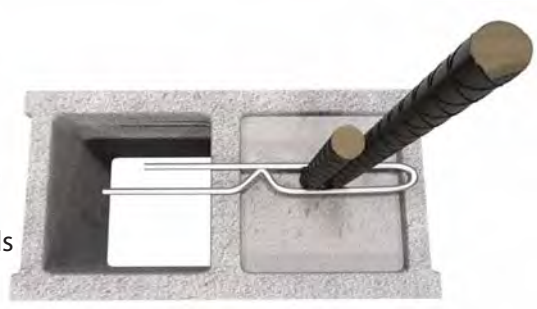
Catalog No.	Thickness	Size (width x height)	Bolt Size
443346H	1/16	3 x 4	3/8
443348H	1/8	3 x 4	3/8
443344H	1/4	3 x 4	3/8
443343H	3/8	3 x 4	1/2
443342H	1/2	3 x 4	1/2

Hairpin Rebar Positioner

The Hairpin Rebar Positioner allows masons to "telescope" or adjust rebar during block wall construction, eliminating the need to lift heavy blocks overhead to install over rebar. This anchor is economical, helps to prevent injuries, and is easy to install.

Features:

- Precisely centers vertical reinforcing rebar
- Eliminates overhead lifting of heavy block over rebar to increase job site safety, and to help prevent impalement injury
- Increases productivity, reducing labor and material costs
- Eliminates need to grout block wall cores in sections, and allows for a monolithic pour of grout in seismic zones
- Complies with TMS 402 Masonry Code for reinforcement of CMU walls
- Helps eliminate blow-outs by containing the flow of grout within vertical cores
- Allows full realization of rebar tensile strength to meet specified building codes and designs
- Accurate and secure placement method minimizes rebar waste



#374

Dimensions:

- Standard Sizes:
  - 374-SG: 9 gauge (0.150") for #3, #4, and #5 rebar
  - 374-LG: 6 gauge (0.194") for #5 and #6 rebar

Material:

- Grade 50 spring steel
- Zinc plating to ASTM b-633 SC1

Wire Rebar Positioner

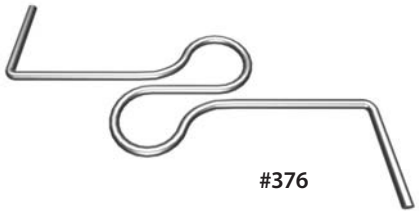
- Centers rebar in block walls

Dimensions:

- 9 gauge wire with 1" diameter eyes in center with 2" bends
- Available for 8" and 12" block

Material:

- Hot-dip galvanized after fabrication



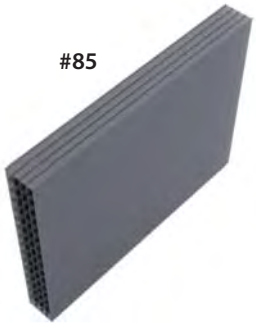
#376

Cell Vents

Cell vents are installed in the bottom vertical mortar joint of a brick veneer wall. They consist of many small adjacent passageways, which allow moisture to vent from the cavity to the exterior of the building while restricting ingress of insects. The cellular composition provides easy drainage for moisture along the full height of the head joint. Cell vents are UV-resistant and tested in conformance to ASTM D2240, D790B, D638 and D1238B.

Dimensions:

- Regular size: 3/8" x 2-1/2" x 3-3/8"
- Jumbo size: 3/8" x 3-3/8" x 3-3/8"
- Colors: Clear, gray or brown



Weep Tubes

- Used to allow moisture to pass from the inside of the wall cavity to the exterior of the wall
- TMS402 Masonry Code requires a weep less than 33" o.c.

Dimensions:

- Plastic Tube Diameter:
  - 3/8" diameter o.d. (1/4" diameter i.d.)
  - Lengths: 4" long or cut to length specified

Weep Vent Options:

- Brass screen
- Stainless steel screen
- Wick only
- Plastic tube only

Material:

- Rigid vinyl compound meeting requirements of Ethyl 7045

Drip-Edge Flashing

- Used as flashing material to prevent water damage
- Drip-edge is folded back to prevent sharp edge on exterior of wall.

Dimensions:

- Standard thickness: 26 gauge
- Standard width: 3"
- 1/2" drip-edge hemmed back 3/8"
- Standard length: 10'

Material:

- Type 304 stainless steel

Termination Bar

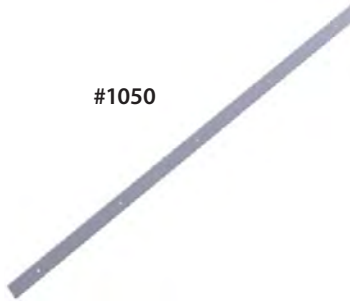
- For securing flashing to a backup wall

Dimensions:

- Standard size: 1/8" x 1" wide x 8 ft long with 5/16" holes 8" o.c.
- Also available: Hemmed lip 26 gauge x 1" wide x 8 ft long with 5/16" holes 8" o.c.
- Custom sizes are available

Material:

- Type 304 stainless steel



Control and Expansion Joints

Rubber Control Joint

Control joints allow for the expansion and contraction of the masonry without allowing for air and water penetration.

Dimensions:

- Standard: 2-5/8", 6-7/8" and 11-1/8"
- TEE section available in 2-5/8"

#352

Neoprene Expansion Joint

Neoprene expansion joints can be used in vertical or horizontal applications. They provide expansion in joints and prevent unwanted clogging with mortar.

Dimensions:

** All sizes available with or without adhesive

- Thickness: 1/4", 3/8" or 1/2"
- Width: 3"
- Length 50 feet

#354

Miscellaneous Items

45 Band Iron Tighteners

- Popular tool used to pull band iron around concrete forms and skids

#45

686 Plate Washers

Dimensions:

- Made to order: Specify thickness, length, width, and centered hole size

Materials:

- Stainless steel
- Hot-dip galvanized after fabrication
- Mill galvanized
- Plain steel

#686

391 Spiral Remedial Tie

- Use in existing cavity walls that are inadequately restrained as a result of insufficient or badly corroded ties or where ties have been omitted
- The stainless steel tie is dry-set – it cuts a threaded groove into the masonry as it is driven into position through a pre-drilled pilot hole

Dimensions:

- Diameters: 8 mm or 10 mm
- Lengths: 6", 7", 8", 10", 12", and 14"
- Custom lengths available upon request

#391

Alphabetical Code Listing

Notes

Notes

PRODUCT WARRANTY STATEMENT:

Mechanical Plastics Corp., in its sole discretion and option, will repair, replace or refund the original purchase price of the product for a period of 6 months from the date of sale by Mechanical Plastics Corp. or its distributors provided that the product contains a defect in material or workmanship, excluding normal wear and tear.

This warranty statement does not apply to any products not installed or used in compliance with the published instructions, proper and specific installment procedures, modifications to the product, defective materials to which the product is attached or which have deteriorated, used in conjunction with other manufacturers' anchors, acts of war, acts of terrorism, Force Majeure or any other extraordinary events.

NOTIFICATION:

Absence the receipt of notification by Mechanical Plastics Corp. of any such defect within the 6 months period shall constitute a waiver of any and all claims with regard to such product and sale.

LIMITATION OF LIABILITY:

To the extent permitted by law, the foregoing warranty is expressly in lieu of any and all other warranties, whether express or implied, including but not limited to the implied warranty of fitness for a particular purchase and the implied warranty of merchantability, and whether by statute, case law or otherwise. This warranty is the sole warranty provided by Mechanical Plastics Corp. No warranty is given in respect to the modification or improper installation of any product.

LIMITATION OF DAMAGES:

In no event shall Mechanical Plastics Corp. (including but not limited to its agents, directors, employees, managers, members, officers, representatives, or shareholders) be liable to any entity, individual, organization or person for any lost income, lost opportunities, lost profits, lost savings, capital costs, or for any direct or indirect damages, or for any special or punitive damages, or for any consequential or incidental damages including but not limited to costs and attorney fees arising out of or related to the sale, use, or inability to use the product whether based on contract, tort, warranty, or other equitable or legal grounds.

INDEMNIFICATION:

Purchaser and/or customer hereby agrees to defend, indemnify and hold harmless Mechanical Plastics Corp. for any and all claims by any entity, person or third party for any damages, losses, special losses, punitive claims, or other claims and any consequential costs, including but not limited to legal costs and attorneys' fees.

ACCEPTANCE OF TERMS:

Purchase of any product from Mechanical Plastics Corp. is evidence of acceptance of these warranty terms by the purchaser.

SAFETY, INSTALLATION, TECHNICAL, AND CODE COMPLIANCE INFORMATION:

For full up-to-date information on safety standards, installation instructions, technical specifications, code compliance, and approvals, please visit www.wejit.com.