



Serving the Masonry Construction Industry Since 1923!

Product Catalog & Engineering Guide

2015 Edition

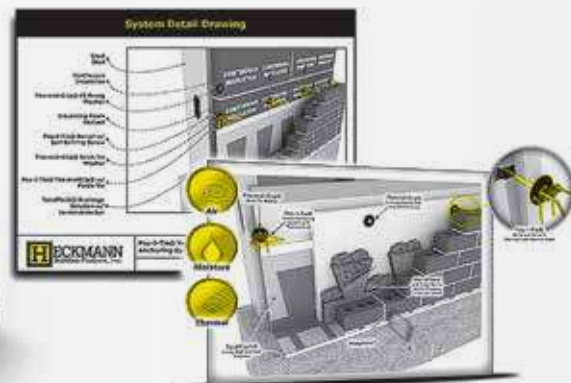
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Now Offering Graphic Design Services

3D Rendered Images • 3D Animation Videos • System Details
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Contact us to find out how our design services can help improve your website, videos, print material & more!



TMS 402 BUILDING CODE & L.E.E.D.

Serving the Construction Industry for Over 92 Years!

In 1923, Richard Heckmann Sr. founded Heckmann Tool Company on Chicago's West Side. Heckmann Building Products remains a 100% family-owned business now in it's 4th generation. We are dedicated to the goal of providing you with quality masonry anchors and superior customer service.

Veneer Anchors and the TMS 402 Building Code Requirements for Masonry Structures

Anchor Requirements:

BACKUP	ANCHOR TYPE
Wood	Any anchor type permitted
Steel (heavy and light gage)	Adjustable anchors only
Masonry	Wire adjustable, or joint reinforcement
Concrete	Adjustable

Basic Prescriptive Requirements for Anchored Veneer:

- Spacing of two-piece 9 ga wire ties and/or 22ga corrugated anchors limited to maximum of one anchor each 2.67 ft² – all other anchors maximum of one anchor per 3.5 ft². Maximum spacing 32" horizontally and 25" vertically with additional ties required around openings and near edges.
- Cavity limitations of 4 1/2" from backup to inside of the veneer with all insulation, sheathing, vapor barrier and air space positioned within the space. Wider cavities require engineering. Minimum air space is 1". Corrugated sheet metal anchors cannot be used when the air space exceeds 1".
- Mortar joint thickness is a minimum of twice the thickness of the embedded anchor/tie. Anchors are embedded at least 1 1/2" into the veneer from the backup with a minimum of 5/8" of mortar from the outside face.
- Continuous single wire joint reinforcement is no longer required in Seismic Zones D, E, and F.
- Exterior wall anchors must be a minimum of Hotdip Galvanized After Fabrication, Epoxy Coated, or Stainless Steel. Mill Galvanized is for interior use only.

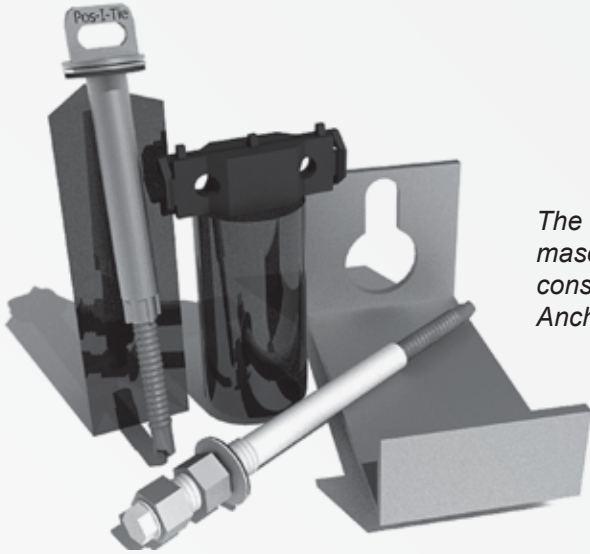
L.E.E.D. – Leadership in Energy and Environmental Design

All of our metal building anchors are 100% recyclable after use. The vast majority of anchors are manufactured from recycled steel. LEED certificates for recycled content are available upon request. Regional credits are available for construction projects located within 500 miles of our factory in Melrose Park, Illinois. There is no confusion as to our origin due to our one location.

Please visit our website for additional information.
www.heckmannanchors.com

POS-I-TIE® VENEER ANCHORING SYSTEMS

For anchoring veneers to steel studs, CMU, poured concrete, ICF, precast, and wood frame backups.



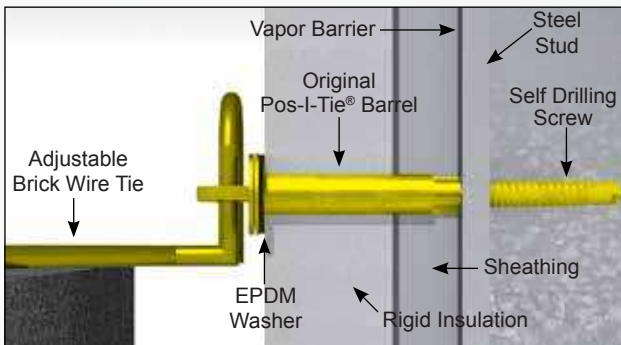
Pos-I-Tie® VENEER ANCHORING SOLUTIONS

The Pos-I-Tie® brand is synonymous with acceptance and longevity in the masonry construction industry. With millions of units sold on thousands of construction projects across the country, The **Original Pos-I-Tie®** Veneer Anchoring System is the #1 most specified veneer anchor.

Heckmann Building Products continues to add new and innovative products to the Pos-I-Tie® family. The newest additions include: The Pos-I-Tie® ThermalClip® & The Pos-I-Tie® KeyBolt.

Discover each innovative design and find out why the Pos-I-Tie® name is the most accepted and trusted name in the industry!

THE ORIGINAL Pos-I-Tie® VENEER ANCHORING SYSTEM






#75 ORIGINAL POS-I-TIE® FEATURES:

- POS-I-TIE® system fully complies with the TMS 402 Code.
Screw is provided as a part of the POS-I-TIE® System. No inferior screws can be substituted.
- The Barrel Section actually penetrates the sheathing and makes a Positive Lateral Connection with the backup for transfer of compression and tension loads to structural backup.
- Enables speedy cost-saving installation: Only one screw needs to be placed, rather than two screws.
- POS-I-TIE® system COMPLETELY seals the hole it makes when it seats itself in the backup.
- Barrel allows for differential movement due to temperature variations. Tie design provides for allowable TMS 402 code vertical adjustment.
- POS-I-TIE® System allows for use of 4' x 8' insulation sheets by holding the insulation in place!

See page 28 for test data

Screw Types

Steel Stud	Self Drilling Screw	
CMU, Concrete, Wood, Masonry, ICF	Concrete/CMU Screw	
Structural Steel	Dril-It® Screw	

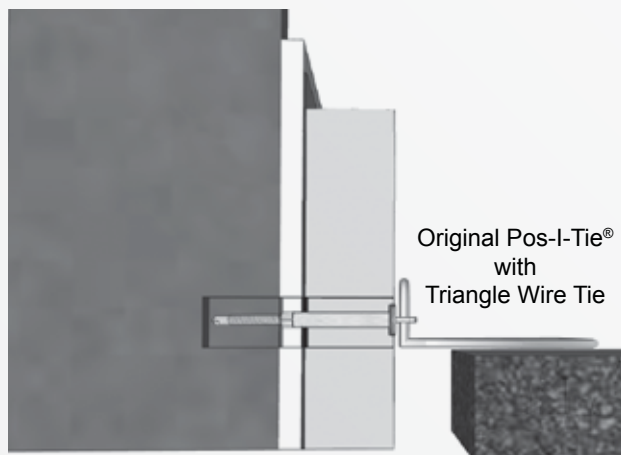
Veneer Ties & Anchors



POS-I-TIE® VENEER ANCHORING SYSTEMS

For anchoring veneers to steel studs, CMU, poured concrete, ICF, precast, and wood frame backups.

Selecting the correct Original Pos-I-Tie®



Backup Wall	Sheathing	Air Space
Steel Stud backup shown. System can be used with concrete, cmu, brick, & wood backup.	Dens Glass + Vapor Barrier + Insulation	1" minimum per code

*System can be used with no sheathing. See Chart.

Barrel Sizes:

- 5/8" • 3"
- 1" • 3-1/2"
- 1-1/2" • 4"
- 2" • 4 1/2"
- 2-1/2"

Longer sizes available



ORIGINAL POS-I-TIE® INSTALLATION

Chuck adapter



Sleeve Tool



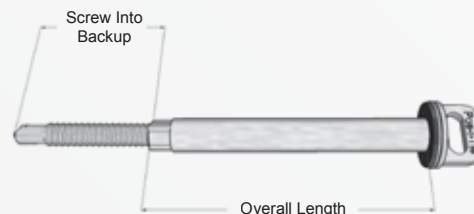
Sleeve Tool for Concrete/CMU, Wood, Brick, and heavier Structural Steel installation

STEP 1: Determine Your Sheathing Thickness

Add the total thickness of gypsum board, vapor barrier, and rigid insulation/mineral wool that extends from the backup to the airspace. The Pos-I-Tie® Barrel will penetrate through rigid insulation/mineral wool and gypsum boards. It will not penetrate through OSB or Plywood. If using OSB or Plywood over steel stud, do not add to the total sheathing thickness.

STEP 2: Determine Barrel Size to Order

See the chart below for the appropriate barrel length. The Barrel length required will be equal to the total of the insulation and gypsum sheathing. If OSB or Plywood is used, the Barrel length will be equal to the vapor barrier and insulation thickness only. If your sheathing thickness does not fit within the parameters listed below, contact us as other options may be available.



Sheathing Thickness	Barrel Size to Order
No Sheathing or 1/2" - 5/8"	5/8"
1" - 1 1/8"	1"
1 1/2" - 1 5/8"	1 1/2"
2" - 2 1/8"	2"
2 1/2" - 2 5/8"	2 1/2"
3" - 3 1/8"	3"
3 1/2" - 3 5/8"	3 1/2"
4" - 4 1/8"	4"
4 1/2" - 4 5/8"	4 1/2"

STEP 3: Determine Wire Length

TMS 402 code requires ties to be a minimum of 1-1/2" into the brick from the backup but no more than 5/8" from the outside wall. The tie inserts into the barrel screw 1/4" out from the backup. Minimum Tie Length is the airspace minus 1/4" plus 1-1/2". Maximum Tie Length is airspace minus 1/4" plus brick thickness minus 5/8".

EXAMPLE: Dens Glass (1/2"), 2" insulation, 2" airspace, 3-5/8" brick.

Sheathing Thickness = 2-1/2" (Dens Glass + Insulation) order 2-1/2" barrel based on above chart.

Wire Tie: 2" airspace - 1/4" = 1-3/4" + 1-1/2" embed per code = minimum tie of 3.25".

Maximum tie length would be 1-3/4" + 3-5/8" brick - 5/8" per code = 4.75".

Standard ties are 3", 3-1/2", 4", 5". The 3-1/2" and 4" ties would both work for this condition.

POS-I-TIE® THERMALCLIP®



The Pos-I-Tie® ThermalClip® adds patented thermal-break technology to all of the advantages of the Original Pos-I-Tie® Veneer Anchoring System!

Designed to be used exclusively with the Original Pos-I-Tie® Veneer Anchoring System.



Patent# 8,863,469

#75-TC POS-I-TIE® THERMALCLIP® FEATURES:

Innovative Design:

- Snap-on design locks the ThermalClip® to the barrel loop creating a thermal break between the wire tie and the Pos-I-Tie® Barrel Screw.
- The proprietary plastic material of the ThermalClip® prevents dissimilar metals corrosion allowing the use of Stainless Steel Ties or Stone Anchors with the Original Pos-I-Tie®.

Proprietary Plastic Material:

- Decreases thermal transfer. The plastic has very low thermal conductivity; over 100 times less than metals such as steel.
- Highly flame resistance with a UL 94 V-0 rating.
- Tolerant in "freeze-thaw" conditions.
- Tolerant of alkalines in mortar.

Thermal Testing

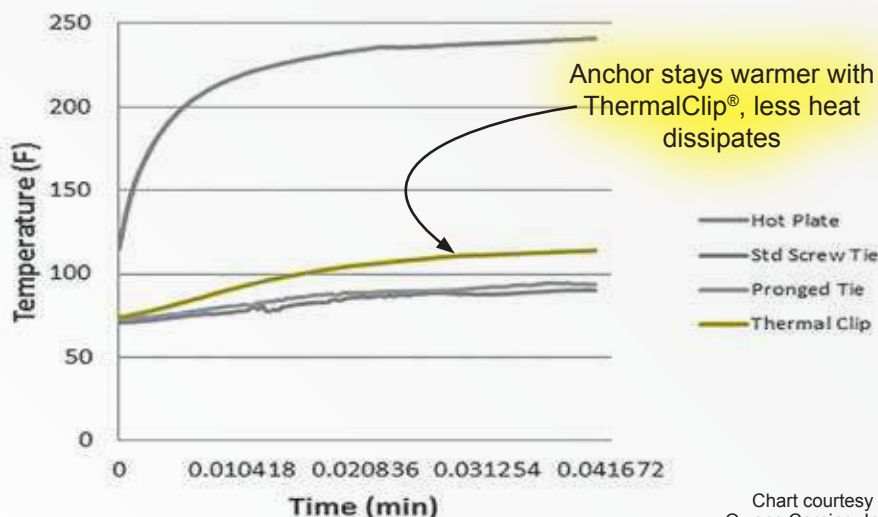


Chart courtesy of Owens Corning, Inc.

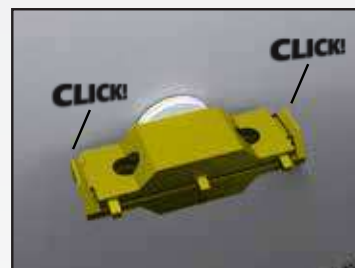
ThermalClip® Installation



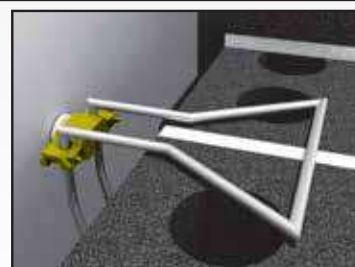
Install the Original Pos-I-Tie® into the backup wall using a chuck adapter and power drill.



Insert the Pos-I-Tie® ThermalClip® as shown and fold over the head of the Original Pos-I-Tie® Anchor.



The Pos-I-Tie® ThermalClip® is secured when both sides are snapped into place.



Insert the pintle wire tie or stone anchor into the two holes of the Pos-I-Tie® ThermalClip®.



MADE IN USA

POS-I-TIE® STONE ANCHOR BOLT

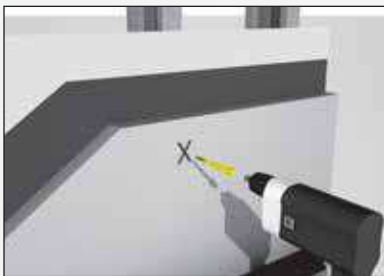
Pos-I-Tie® KEYBOLT STONE VENEER ANCHORING SYSTEM



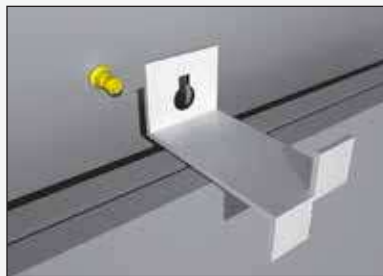
#75-KB Pos-I-Tie® KeyBolt Stone Veneer Anchoring System:

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 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. Available in Stainless Steel. When ordering, specify the type of stone anchor with "KeyBolt Slot".

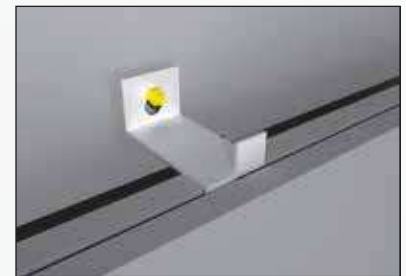
See page 19 for bent stone anchors.



Install the Pos-I-Tie® KeyBolt through the insulation and into the backup wall using a power drill and standard 5/16" hex driver.

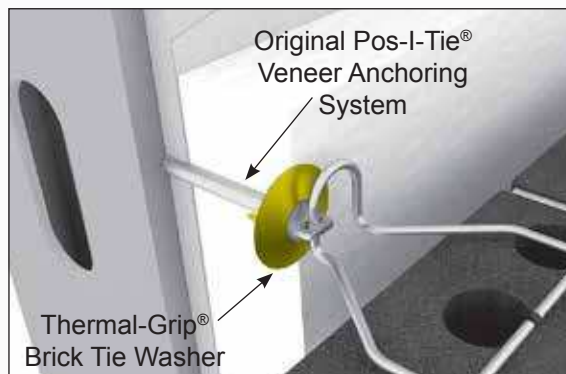


Pass the large keyhole opening of the stone anchor over the head of the Pos-I-Tie® KeyBolt. Set the stone anchor so the small keyhole opening sits between the two Hex Nuts.



Make sure the bend of the stone anchor is set in the cutout of the stone veneer panel. Tighten the Hex Nut to secure the stone anchor to the Pos-I-Tie® KeyBolt.

THERMAL-GRIP® BRICK TIE WASHERS



Mineral Wool Application

#610 Thermal-Grip® Brick Tie Washers:

Insulation manufacturers recommend the use of over-sized 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.*

Using the Thermal-Grip® over-sized washer with the Original Pos-I-Tie® Veneer Anchoring System saves time and money, reduces the number of overall penetrations to the insulation, and reduces the thermal bridging from the cavity to the backup.

*Check with insulation manufacturer for exact spacing requirements

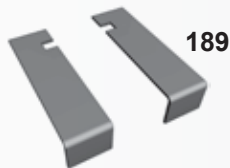
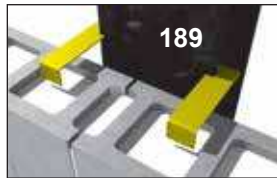


Thermal-Grip®
Brick Tie
Washer

STRUCTURAL ANCHORS

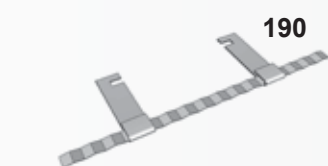
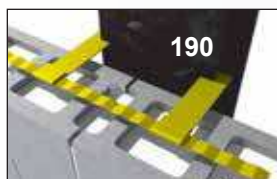
Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly. Non-wire anchors available in 1/8" zinc alloy material for firewall conditions. See page 18.

STRUCTURAL ANCHORS THAT CLIP TO A BEAM



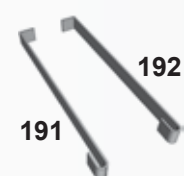
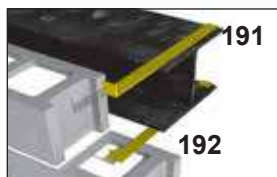
#189 L-Type Column Anchor:

7" long x 2" wide x 1/8" thick x 1-1/2" bend. Standard flange slot is 5/8" wide x 1" deep x 1" from end. Order in pairs with one left and one right anchor. **See Page 30 for test data.**



#190 Strap-Type Column Anchor:

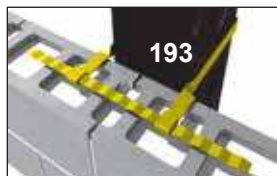
7" long x 2" wide x 1/8" thick x 1-1/2" foldback. Standard flange slot is 5/8" wide x 1" deep x 1" from end. Corrugated wall tie is 22 gage x 1" wide x 24" long. **Order in sets** of left & right anchors and a wall tie.



#191 Top Flange,

#192 Bottom Flange Column Anchor:

10", 12", and 14" long from inside of flange hook to bend x 1-1/4" wide x 1/8" thick + 1-1/2" bend.



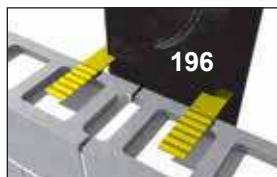
#193 Twisted Strap-Type:

Specify length required x 1-1/4" wide x 1/8" thick x 1-1/2" foldback. Specify length from hook to start of twist and diameter and location of hole. Corrugated wall tie is 22 gage x 1" wide x 24" long. **Order in sets** of left & right anchors and a wall tie.



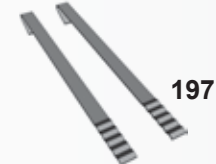
#195 Twisted L-Type Column Anchor:

Specify length required x 1-1/4" wide x 1/8" thick x 1-1/2" bend. Specify length from hook to start of twist and diameter and location of hole (if required) for bolting the anchor to beam.



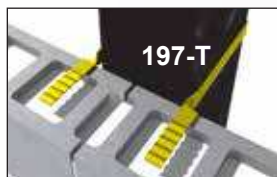
#196 Corrugated-Type Column Anchor:

7" long x 2" wide x 1/8" thick with 4-1/2" of corrugation. **Order by piece**, anchors are reversible for left or right hand use.



#197 Corrugated Column Anchor:

Specify length required x 1-1/4" wide x 1/8" thick. **Order by pieces**, anchors are reversible.



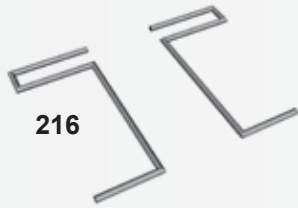
#197-T Twisted Corrugated Column Anchor:

Specify length x 1-1/4" wide x 1/8" thick. Specify length from hook to start of twist and diameter and location of optional hole for bolting the anchor to beam.

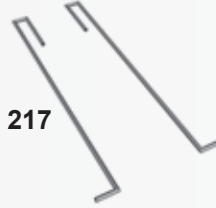
STRUCTURAL ANCHORS

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly. Non-wire anchors available in 1/8" zinc alloy material for firewall conditions. See page 18.

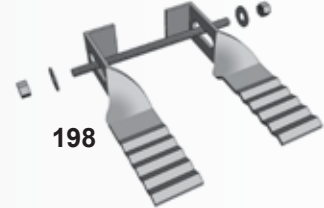
STRUCTURAL ANCHORS THAT CLIP TO BEAM



#216 Wire Type Column Anchor: 3", 5", 7", and 9" lengths from inside of flange slot to masonry bend x 3/16" or 1/4" diameter wire. Standard flange slot is 1/2" x 2-1/2". Bend is 2". **Order by piece.**



#217 Wire Type Column Anchor: 10", 12", 14", or 16" long from inside of flange slot to masonry bend x 3/16" or 1/4" diameter wire. Standard flange slot is 1/2" x 2-1/2". **Order by piece.**

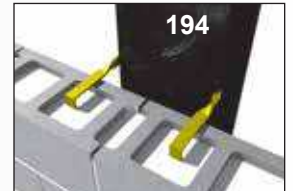


#198 Rod-Lock Corrugated Beam Anchor: 12 gage, 1/8" or 3/16" x 1-1/4" wide + 1" bend. Specify overall length of anchor from inside of bend to the end. Twist is 2" long. Also available in Zinc Alloy 710.

STRUCTURAL ANCHORS WELDED TO BEAM

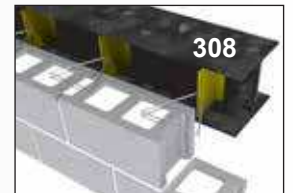
#194 Bar-Type Column Anchor:

6" long x 1" wide x 1/4" thick x 2" bend on flange and 1-1/4" bend into masonry, electro-galvanized after fabrication. Weld to structural steel. **Order in pairs.**



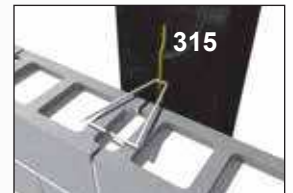
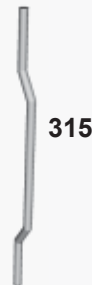
#308 Receptacle Slot Anchor:

14 gage or 1/8" x 7" high with 1" bend for welding to beam. 5" slot for wire tie. Specify length from beam to end of anchor. Available in Plain Steel **See Page 14 for Adjustable Wire Ties.**



#315 Weld-On Anchor Rods:

1/4" dia. x 9" long or 5" long. **See Page 14 for Adjustable Wire Ties.** **See page 33 for Test Data.**



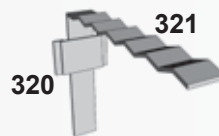
#315-B Weld-On Anchor Straps:

12 gage x 3/4" wide x 9" long or 7/8" wide x 6-1/2" long. **See Page 14 for Adjustable Wire Ties.**



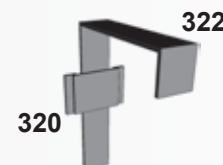
#320 Weld-On Clip:

1" high x 1-1/4" wide x 14 gage with 3/16" offset for anchor. **NOT available in Stainless Steel**



#321 Corrugated L-Tie:

3", 5", 7", or 9" lengths x 3/4" wide x 14 gage. Adjustment bend is 4" long. **NOT available in Stainless Steel**



No. 322 U-Type Tie:

Made to order. Cannot be thicker than 14 gage or wider than 3/4". **NOT available in Stainless Steel**

STRUCTURAL ANCHORS

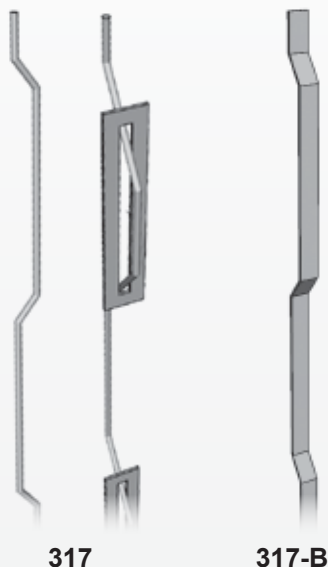
Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.

#317 Continuous Weld-On Anchor Rods:

1/4" dia. x 8 ft with six 3/8" offsets, each providing 7-3/4" vertical adjustment and are spaced 16 o.c. Also available with 2-3/8" offset and backplate to accommodate spray-on fireproofing.

#317-B Continuous Weld-On Anchor Straps:

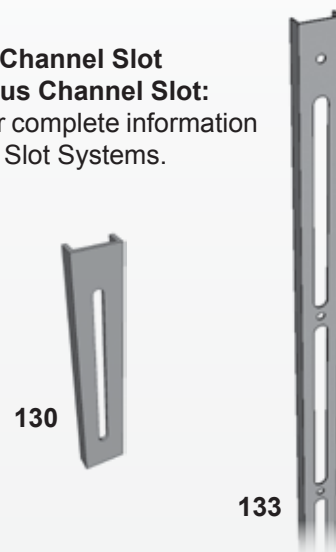
12 gage x 3/4" wide. Same configuration as No. 317.



#130 Weld-On Channel Slot

#133 Continuous Channel Slot:

See Page 15 for complete information on the Channel Slot Systems.



ANCHORS FOR MASONRY TO WOOD

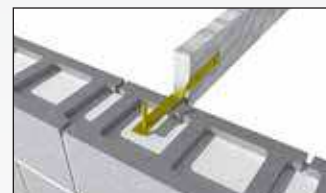
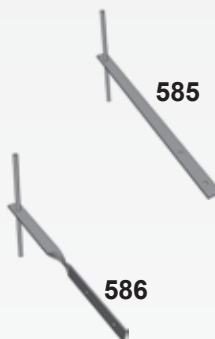
#260 Corrugated Wall Tie:

Standard 7" long x 7/8" wide. Available in 22, 20, 18, and 16 gage 7" x 7/8" Mill Galvanized, Hotdip Galvanized After Fabrication and Stainless Steel. Custom widths and lengths are available in thickness from 3/16" to 22 gage as well as 16 ounce copper. (TMS 402 Code minimum thickness is 22 gage)



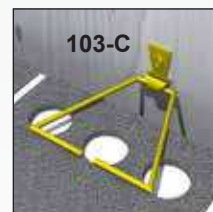
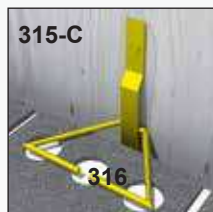
#585 Joist Pin Anchor:

Used to anchor wood joist to a masonry wall. 3/8" dia. x 5" fixed pin in a 1/8" x 1" wide strap with holes 3" o.c. for nailing to top of joist. Standard lengths are 14" and 18" in Mill Galvanized or Hotdip Galvanized.



#586 Twisted Joist Pin Anchor:

Same dimensions as No. 585 with a twist for attachment to the side of the joist.



The Anchoring Systems shown above can be used for attaching brick veneer to wood stud backups. Using No. 681-EHH230 Wood Screw, they can be attached to wood studs through exterior plywood sheathing (See page 14). For more information on these anchors, see pages 3, 11, 12, 15 and 16.

BREAKAWAY FIRE WALL ANCHORS

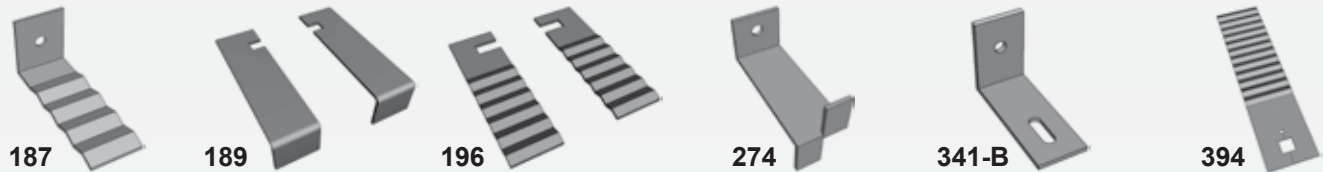
(MELTAWAY ANCHORS)

IBC Section 706.2 (2015) requires fire walls to allow collapse of construction on either side without collapse of the wall for various durations of time. Anchors attaching the fire wall to CMU, Concrete or Steel must have the capability of providing structural performance, but “detach” during a fire.

The majority of our non-wire anchors can be manufactured from Rolled Zinc Alloy 710 material which has a melting point of 792 degrees. Choose your non-wire anchor from this catalog, specify your required dimensions, and specify “Rolled Zinc Alloy 710” as the steel type. The Rolled Zinc Alloy 710 material is available in 1/8” and 16 gage thickness only.

Comparison Chart	Rolled Zinc Alloy 710	Brass 70/30	Copper ETP	Stainless 304	DQ Steel 1008	Aluminum 3003
Density (lb/in ³)	.0259	0.0308	0.321	0.29	0.284	0.099
Melting Point (F)	792	1680	1950	2550	2730	1190
Tensile Strength (ksi)	21-28	44-99	32-57	75-15	38-50	16-29
% Elongation (in 2”)	30-45	3-68	4-45	0-40	35-45	4-40
Olsen Ductility (in.)	.25-.35	.10-.40	.10-.40	.10-.30	.35-.42	.15-.35
Hardness (R15T)	55-68	60-91	50-80	88 max	73-77	40-75
Shear Strength (ksi)	24-28	31-48	22-29	60-120	45-52	11-16

Below are popular Heckmann anchors used as fire wall anchors.



SEISMIC VENEER ANCHORS

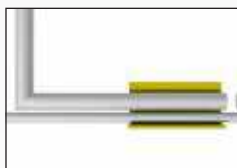
Heckmann Building Products offers a variety of veneer anchors which conform to the requirements of UBC for seismic zones. The code requires the veneer wall to have a continuous wire imbedded in the mortar joint that is connected to the veneer anchor which is attached to the backup structure.

The new TMS402 2013 Masonry Building Code no longer requires the continuous wire in the veneer. A SEISMIC TAB NOTCH CAN BE PROVIDED FOR ANY FLAT HECKMANN ANCHOR UP TO 1/8” THICK. Below are examples of the #361 Dovetail, and #360 Veneer Seismic Anchors.

#370 Seismic Hook Tab: 20 gage clip welded to #316 Triangle Ties, #282 Double Pintle Wire Ties, Pos-I-Tie® Wire Ties, #314 Tie Clips or any 3/16” dia. wire tie. Holds wire wall reinforcement or pencil rod for seismic zone applications.



Pos-I-Tie® Triangle with
#370 Clip



#370
Seismic Clip



#370 welded to
#316 Triangle



#360 L-Type
Veneer Anchor



#361 Dovetail
Seismic Anchor

ADJUSTABLE ANCHORS FOR MASONRY

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.

#75 Pos-I-Tie® System.

Easy to Install Barrel Screw System with wire ties. Used for attaching masonry to an existing wall. Pre-drill a 2" deep hole. Ties allow for vertical adjustment. **See Page 3 for details on the Pos-I-Tie® Anchoring System.**



Dovetail Anchoring System.

(Concrete Only) Incorporates 10 ft long slots that are cast into concrete. Anchors are inserted in slot which allows vertical adjustment for placement in masonry joints. **See Page 16 for the Dovetail System and available ties.**



Channel Slot System is attached to existing concrete walls with expansion anchors. Anchors are inserted into the slots which allow vertical adjustment for placement in masonry joints. **See Pages 15 for details on the Channel Slot System.**



#213 Wire Veneer Anchor System:

14 gage backplate made for no insulation, 1", 1-1/2" or 2" insulation.

#282 Double Pintle Wire Tie:

3/16" dia. wire in 3-1/4", 4-1/4", and 5-1/4" lengths. Pintles legs are 1-1/4" long.

#312 L-Type Veneer Anchor:

Available in 3/4", 1-3/4", and 2-3/4" lengths x 1-1/4" wide x 16 gage with 7/32" dia. holes centered in bend and 3/8" from end of projection leg. Specify 1-3/4" projection with 1" thick insulation and 2-3/4" projection with 2" insulation.

#258 Single Pintle Tie:

3/16" dia. wire. 3" and 5" long with 2" bend in masonry and 1-1/4" of vertical adjustment. Specify steel type to match No. 312.

#315-C Screw-On Anchor Straps:

12 gage x 3/4" wide x 9" long or 7/8" wide x 6-1/2" long with two 1/4" dia. holes for attachment to backup.

See page 14 for wire ties.

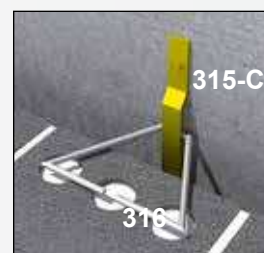
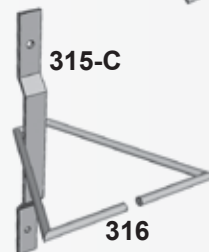
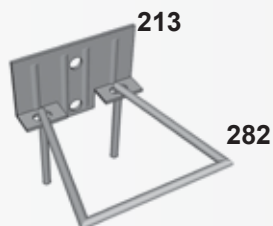
#315-D Screw-On Anchor Plate:

12, 14, and 16 gage x 1-1/4" wide x 6" long with two 1/4" dia. holes for attachment to backup. **Not available in 12ga stainless steel.**

#317-C Continuous Screw-On Anchor Straps:

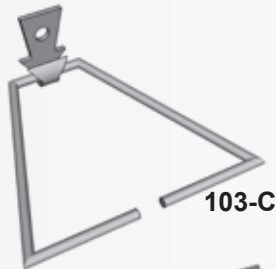
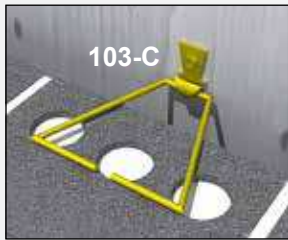
12 gage x 3/4" wide x 8 ft with six 3/8" offsets providing 7-3/4" vertical adjustment. Offsets are spaced 16-3/4" o.c. 1/4" dia. holes are provided for attachment to backup. **Not available in stainless steel.**

See page 14 for wire ties.



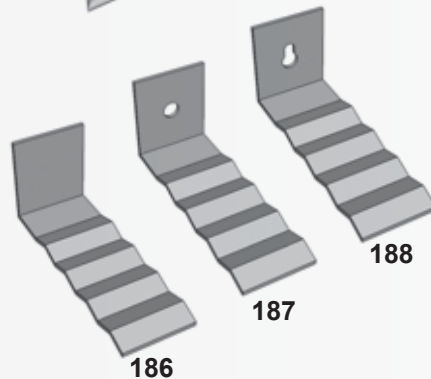
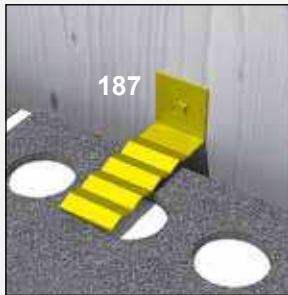
NON-ADJUSTABLE ANCHORS FOR MASONRY

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.



#103-C Triangular Wire Veneer Anchor:

12 gage anchor factory-assembled to No. 316 Triangle Ties on lengths of 3", 4", 5", 7", 9", and 11". Screw hole is 5/16".



#186 Corrugated Brick Veneer Anchor:

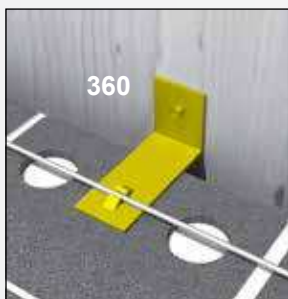
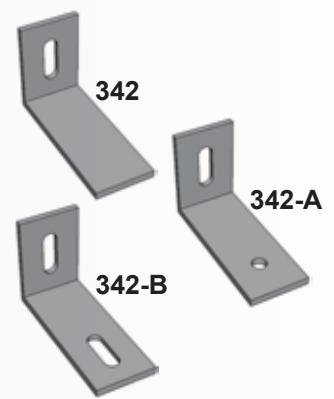
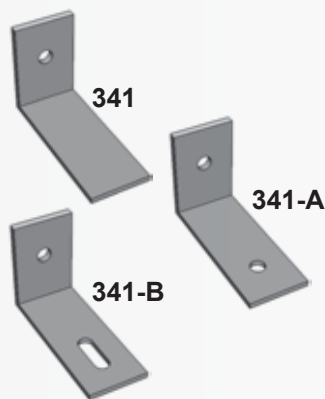
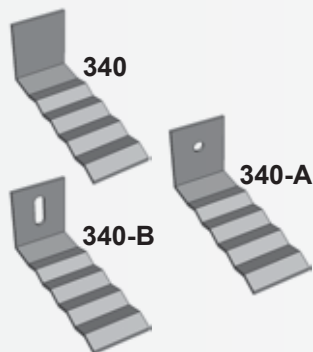
#187 Corrugated Brick Veneer Anchor with Hole:

#188 Corrugated Brick Veneer Anchor with Keyhole:

Standard Size for all three: 3-1/2" long x 1-1/4" wide x 16 gage with 1-1/2" bend. Hole is 5/16" dia. and Keyhole is 1/4" x 1" long to fit over a No. 12 dia. screw.

#340 Series Custom Anchors:

340 Series Strap Veneer Anchors are made to order in the steel type, gage, and dimensions you specify. They can be fabricated with various combinations of bends, holes, slots, corrugations, dowels, or other features required for special types of masonry construction. Available in Mill Galvanized, Hotdip Galvanized After Fabrication, Epoxy Coating, Stainless Steel, and Zinc Alloy 710 for Firewalls.



#360 L-Type Seismic Anchor: Made to order. Tab holds wire wall reinforcement or pencil rod for seismic zone applications. Specify steel type, length, width, bend length, and hole size.

See Page 10 for our seismic systems.

ANCHORS FOR MASONRY TO MASONRY

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.

WIRE MASONRY WALL TIES

#251 Z Wire Tie:

3/16" and 1/4" dia. wire with 2" bends in lengths of 6", 8", and 10".

#253 Rectangular Wire Tie:

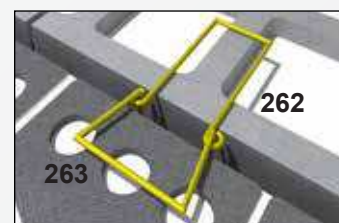
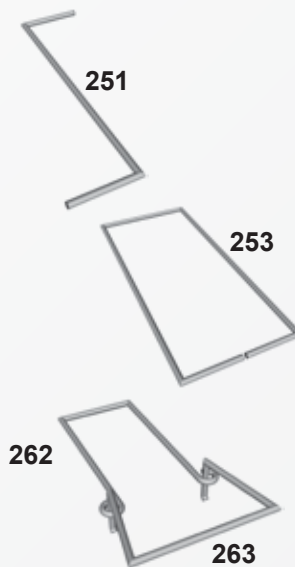
3/16" dia. wire 2" or 4" wide in lengths of 6", 8", 10", and 12".

#262 Double Eye Rod Anchor:

Eye Anchor: 2-3/4" and 4-3/4" long x 2-1/2" wide x 3/16" dia. wire.

#263 Double Pintle Tie:

Tie: 3", 4", and 5" long with 1-1/2" bends. 3/16" dia. wire. (Maximum allowable vertical adjustment is 1-1/4")



INTERSECTING PERPENDICULAR WALLS

#270 Corrugated Lateral Support Anchor:

20" long x 1-1/4" wide x 14 gage with 2" bend. Corrugated section is 18" long.

#271 Lateral Support Anchor:

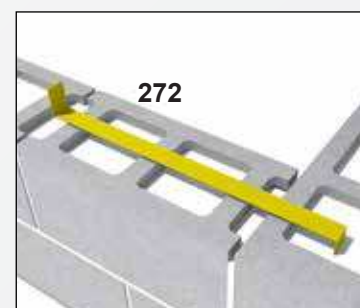
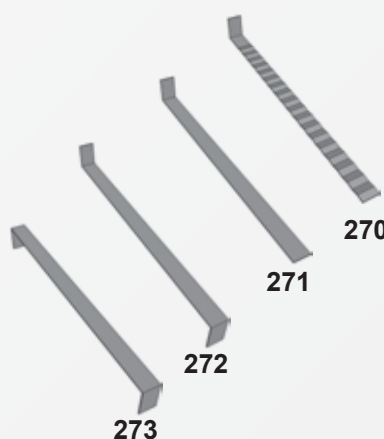
Same dimensions as No. 270 without the corrugation.

#272 Z-Type Rigid Steel Anchor:

24" long x 1-1/2" wide x 1/4" thick with 2" bends.

#273 U-Type Rigid Steel Anchor:

Same dimensions as No. 272.

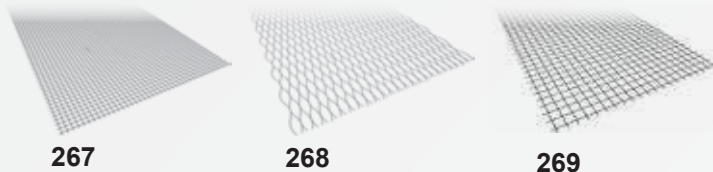


WIRE MESH WALL TIES

#267 Plastic Mesh Wall Tie: Used to prevent grout from falling through the block. Manufactured from 1/4" x 1/4" monofilament material that is corrosion proof and biologically inert. Allows mortar bond between blocks. Available in 100 ft rolls for 6", 8" and 12" block walls.

#268 Metal Lath Wall Tie: 2.5 metal lath, sheared to lengths up to 8 ft x width specified. Install below CMU cores to support mortar or grout fill.

#269 Wire Mesh Wall Tie: 2 x 2 x 16 gage galvanized wire. 12" or 16" long x 3", 4" or 6", wide or cut to special sizes up to 10 ft long. Use to tie intersecting masonry walls.



ANCHORS FOR MASONRY TO MASONRY

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.

CONTROL JOINT ANCHORS

#350 Heavy Duty Control Joint Anchor:

Anchor is 12" long x 3" wide x 1/8" thick with 2" bend. Slot is 2" long x 1" wide. L-Rod is 6" long x 1/2" dia. with a 2" bend. **See page 30 for Test Data.**

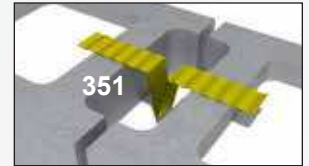
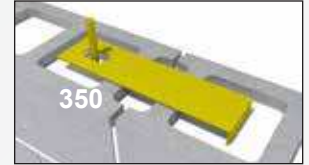
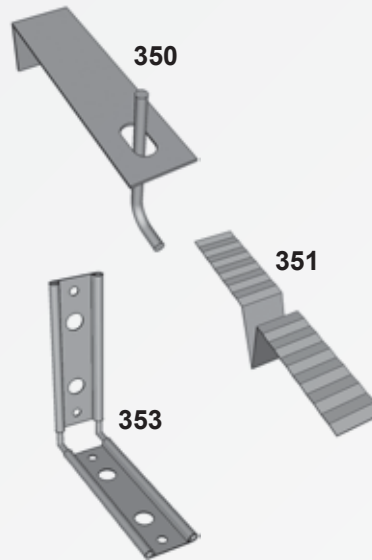
#351 Corrugated Control Joint Anchor:

6-1/4" overall length x 1" wide x 24 gage. V-Section is 1/4" wide x 1-3/4" deep. **Not available in Stainless Steel.**

#353 Debonded Shear Anchor:

Resists out-of-plane shear forces while allowing for in-plane movement of the masonry. One size only: 22 gage x 1-1/2" wide x 10" long.

Available in Mill Galvanized & Stainless Steel Only.



WIRE TIES FOR ADJUSTABLE SYSTEMS

#314 Tie Clip:

3/16" dia. wire 2" wide. Available in 3", 4", 5" and 6" lengths. (Not available in 1/4" dia.)

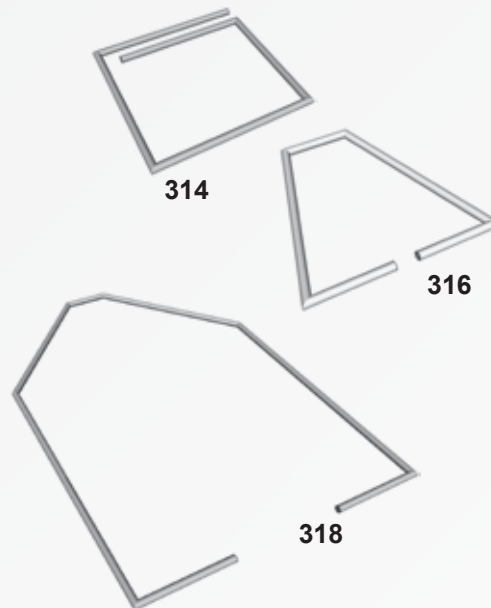
#316 Triangle Ties:

3/16" dia. wire. Closed end is 1" wide. Standard Lengths are 3", 4", 5", 7", 9" and 11". Custom sizes available.

See page 30 for Test Data.

#318 Web Ties:

3/16" dia. wire 12" long. Available for nominal wall thicknesses of 4", 6", 8", 10" and 12".



#668 SCREWS

668-EHL146

Brick Veneer to Steel Studs

10-16 x 1-1/2" Hex Head Screw for Steel Stud applications.



668-EMF330

Brick Veneer to Concrete/CMU

#14 x 1-3/4" HWH CreteFlex® Stainless Steel Masonry Screw, co-polymer coated.



668-ELE415

Brick Veneer to Concrete/CMU

1/4" x 1-3/4" Ultracon® co-polymer Coated.



EHH230

Brick Veneer to Wood

#9-15 x 1-1/2" Tapfast w/ FloSeal washer co-polymer coated.

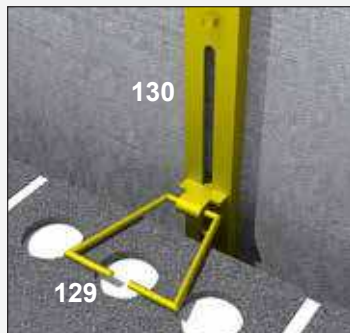


CHANNEL SLOT SYSTEMS

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.

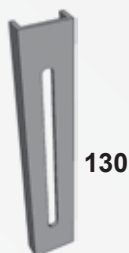
Use versatile Channel-Slots and Anchors to attach masonry or stone veneer to new existing masonry, concrete or steel structure backups.

The Channel-Slots allow a 5-1/2" vertical adjustment for the placement of anchors.



#130 Weld-On Channel Slot:

Weld to steel columns and beams in the shop or field. 8" long x 1-3/8" wide with a 5-1/2" slot. Available in 16 gage or 11 gage. Also available in Plain Steel. **See page 29 for Test Data.**



#132 Screw-On Channel Slot:

Screw or bolt to existing masonry, concrete, wood, or steel. End tabs are 2" long 12" overall length. Holes are 9/32" diameter for 1/4" fasteners. Available in 16 gage or 11 gage. **See page 31 & 32 for Test Data.**



#131 Built-In Channel Slot:

Build into new masonry walls. Z-Anchors are welded to No. 130 Weld-On Channel Slots. Specify block size for length of Z-Anchors. Restraining bends in back are 1-1/2" long. Available in 16 gage or 11 gage.



#133 Long-Type Channel Slot:

Build into new masonry walls using channel slot anchors set into backup wall, attach to an existing concrete or masonry wall using expansion anchors, or weld to a steel beam. Slots allow 5-1/2" vertical adjustment. Standard length is 5ft or 10ft, but other lengths are available in 7-1/2" increments. Available in Plain, Mill Galvanized, Hotdip Galvanized After Fabrication and Stainless Steel in 11 gage, 12 gage, and 14 gage.



CHANNEL SLOT ANCHORS:

Length: Measured from the face of Channel Slot. (Channel Slots face extends 1/2" from backup)

Width: 1-1/4" minimum.

Thickness: 16 gage, 12 gage, 1/8". Specify additional dimensions (bends, pin size, holes) as required.

STANDARD SIZES:

#123 Channel Slot Horizontal Triangular Tie 1/8" clip with 3/16" Triangle Tie:

Standard Triangle Lengths are 3", 4", 5", 7", 9" and 11". Custom sizes available.



#125 Channel Slot Furring Anchor:

1-1/2" long for thin masonry or tile veneers.



#129 Channel Slot Triangular Tie 12 gage clip with 3/16" dia. wire tie:

Standard Triangle Lengths are 3", 4", 5", 7", 9" and 11". Custom sizes available.



For test data see page 29.

#134 Channel Slot Corrugated Anchor:

For brick veneer. Standard lengths 3-1/2", 5-1/2" and 7-1/2".



MADE TO ORDER:

#135 Channel Slot Bent Anchor



#136 Channel Slot Split-Bend Anchor



#137 Channel Slot Pin Anchor



#138 Channel Slot Flat Anchor



#362 Channel Slot Seismic Anchor

#397 Channel Slot T-Type Groutless Anchor



DOVETAIL SLOT SYSTEMS

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.

DOVETAIL ANCHOR SLOTS:

Use dovetail anchor slots in new concrete structures, walls and in precast concrete. Slots are nailed to the concrete form before pouring concrete. Slots are provided with foam filler to prevent concrete from entering the slot during the pour. Dovetail slots are typically installed vertically and spaced 16" to 24" o.c. Standard length is 10 ft.

See page 28 for Test Data.

#100 Standard Dovetail Slot:

1" wide x 1" deep x 5/8" throat. Available in 26, 24, 22, and 20 gage.

#100-A Large Dovetail Slot:

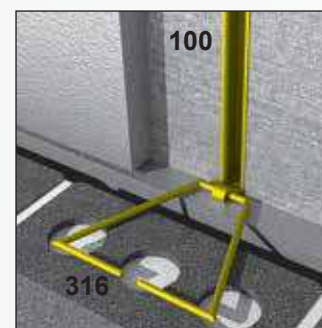
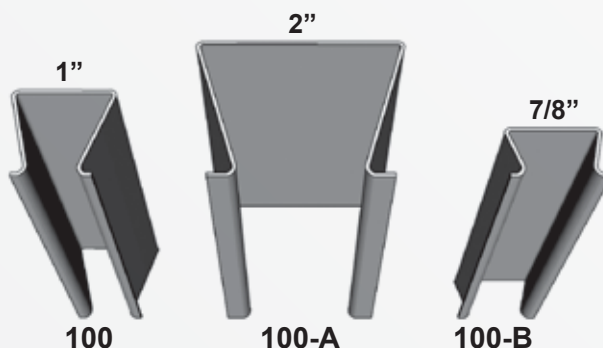
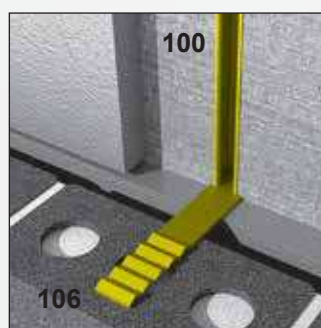
2" wide x 1-1/2" deep x 1-3/8" throat, nail holes 12" o.c. Available 20, 18, or 16 gage.

(16 gage stainless available in 5 ft lengths. Use with 2" wide anchors; add suffix "A" to anchor catalog number.

#100-B Shallow Dovetail Slot:

7/8" wide x 1/2" deep x 5/8" throat, nail holes 12" o.c. in 20 gage.

Use with 1" wide anchors; add suffix "B" to anchor catalog number.



DOVETAIL ANCHORS Length: measured from Face of Concrete. Width: Typically 1" and 2" for Type A Large Dovetail Anchors. Thickness: 16 gage, 12 gage, 1/8" , and 3/16" thick. **See page 28 for Test Data.**



#103 Dovetail Triangular Tie:
12 gage clip with 3/16" dia. wire tie. For Brick and CMU.



#106 Dovetail Corrugated Anchor:
For brick veneer.



#107 Dovetail Horizontal Triangular Tie: 1/8" clip with 3/16" dia. wire tie.



#109 Dovetail Flat Anchor:
For field bending into stone or CMU.



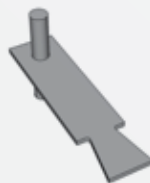
#110 Dovetail Furring Anchor:
1-1/2" long for thin masonry or tile veneers.



#115 Dovetail Bent Anchor:
For stone veneer or CMU.



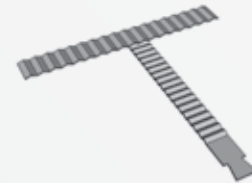
#117 Dovetail Split-Bend Anchor:
For stone veneer.



#118 Dovetail Pin Anchor:
For stone veneer.



#361 Dovetail Seismic Anchor:
Notched for horizontal wire attachment.



#396 Dovetail T-Type Groutless Anchor:
For CMU.

SHEET METAL FLASHINGS & REGLETS

SHEET METAL FLASHINGS

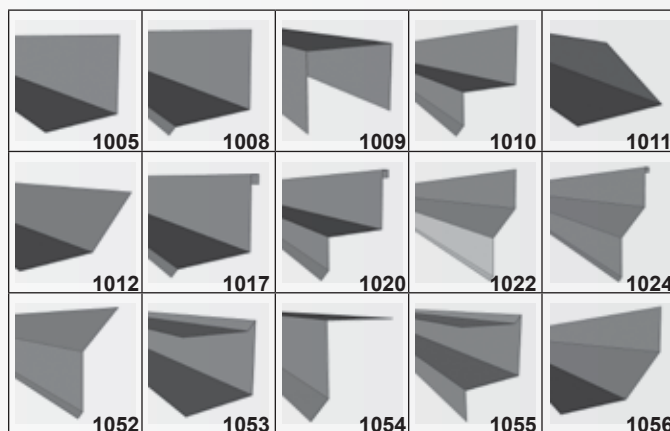
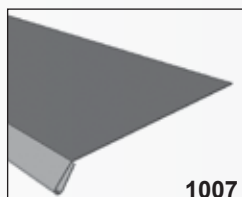
Heckmann custom fabricates flashings from Stainless Steel and Mill Galvanized steel in 11 gage to 26 gage, 16 oz. Copper, and .032" Aluminum. Flashing rolls, which can be cut at the jobsite, are available in .010 and .015 Stainless Steel.

Shapes: Shapes are made to customer's specifications as to dimensions, degree of angle at bends, gages, type of material and length. Special shapes are available. Email or fax your drawing to our estimating department (Fax# 708-865-2640). Shapes can be made with 1/2" hems, turned inside or outside, on long edges.

Lengths: Flashings are furnished in 10 ft lengths. (NOTE: Aluminum should not be used as a flashing material in brick masonry construction.)

1007 Drip-Edge Flashing:

26 gage Stainless Steel 2" wide with a 1/2" hemmed drip edge. Available in 10 ft lengths. Custom sizes are available.

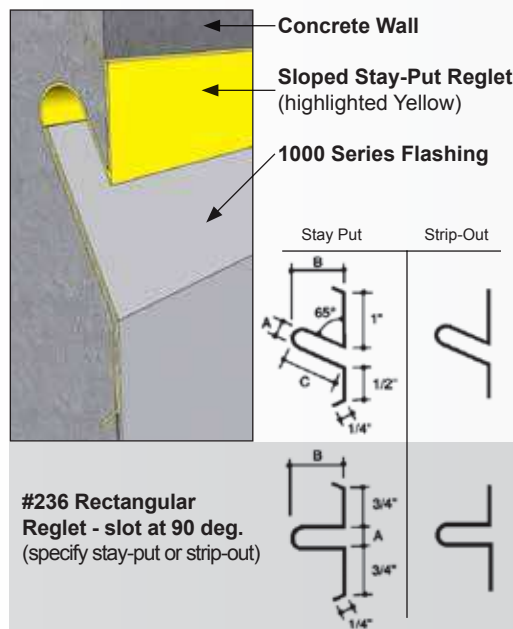


Termination Bar (T-BAR):

For securing flashing to wall. 1/8" thick Stainless steel x 1-1/4" wide x 8 ft long with holes 12" or 16" o.c. Also available in Mill Galvanized, Aluminum or Plain Steel and custom sizes.



REGLETS



Reglets are the most reliable way to terminate roofing, waterproofing, and flashing in concrete walls. Use at parapet walls and above shelf angles, lintels and ledges. Standard length is 10 ft. Specify stripout or stay put, size, and steeltype. Reglets can be filled with foam or taped to keep wet concrete from entering.

Strip-Out Reglets: #230 Standard, #233 Medium, #232 Large. Reglets are removed after concrete has hardened so that roofing and flashing can be sealed directly to concrete. Specify 26 gage Mill Galvanized Steel for strip-out reglets.

Reglets have a 65° sloped slot.

Stay-Put Reglets: #234 Small, #231 Standard. 1/4" wide flanges anchor into concrete and resist water penetration behind Reglet. Specify 26 gage

Mill Galvanized, 26 gage Stainless Steel or 16 ounce Copper. Reglets have a 65° sloped slot.

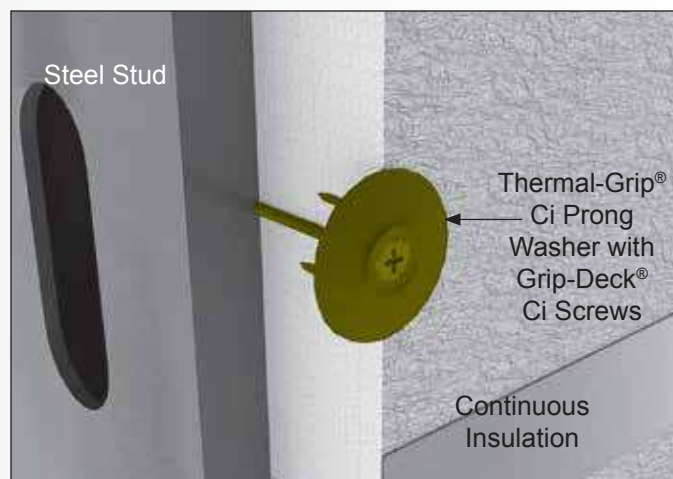
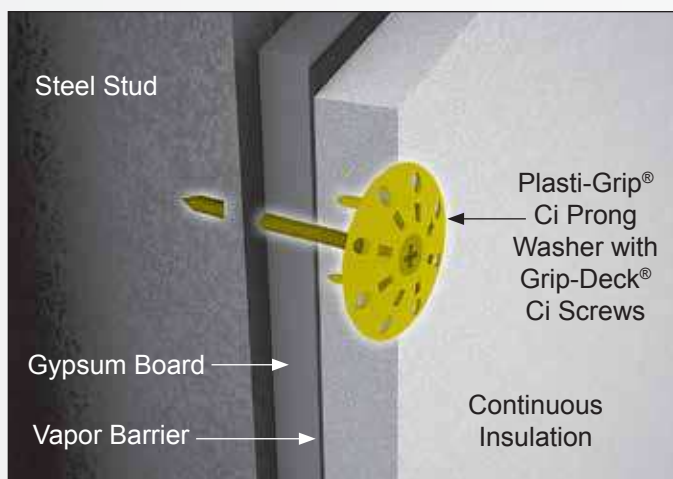
REGLETS (MO=Made to Order)

Cat.No. Strip Out	Stay Put	Size	A	B	C
MO	234	Small	1/4"	1"	1-1/4"
230	231	Standard	1/2"	1-1/2"	1-3/4"
233	MO	Medium	3/4"	1-1/2"	1-3/4"
232	MO	Large	1"	2-1/4"	2-3/4"

Installation: Nail securely to inside face of concrete forms. Use double-headed nails with **Stay-Put Reglets** to resist damage when forms are stripped. Roofing or flashing is typically secured in Reglets with plastic wedges, resilient rod stock or sealants.

LATH & RIGID INSULATION FASTENING SYSTEMS

CONTINUOUS INSULATION WASHERS



Thermal-Grip® CI Prong Washers with Grip Deck® Ci Screws:

For attaching rigid insulation to steel or wood studs for insulation that is designed and installed as an air barrier system.

- Lengths of 1-1/4" - 6" coarse or self-drilling
- Corrosion resistant ceramic coating
- Labor saving prongs for EASY on-the-wall screw assembly
- Carbon Black for UV Resistance

Plasti-Grip® Ci Prong Washers:

For rigid insulation not acting as the air barrier.

- UV inhibitors
- 1-3/4" diameter flexible design
- Continuous Insulation (Ci) or EIFS (PM)

Plasti-Grip® PBLP2 WASHERS:

For Attaching EIFS systems.

- 2" diameter for polymer based (PB) EIFS
- System manufacturer approved
- Also available with pre-spotting prong for EASY on-the-wall screw assembly

Plasti-Grip® PMF Anchors:

For attaching rigid insulation to concrete/block substrates

- Rigid insulation to masonry
- Solid plastic design
- No thermal-bridging
- Easy to install. Pre-drill and tap in with hammer.
- No adhesives required.

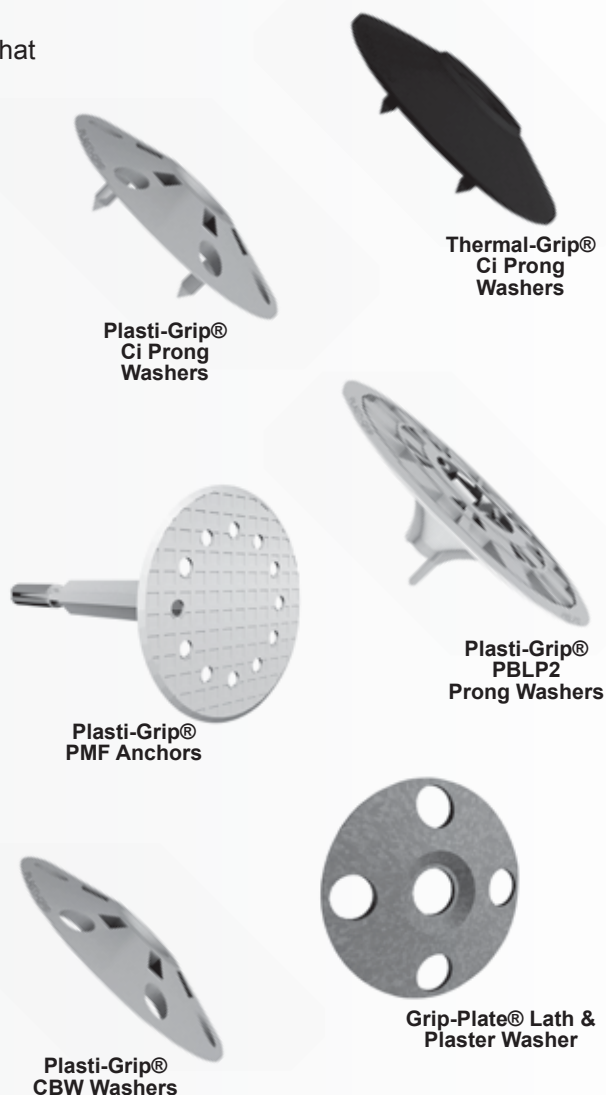
Grip-Plate® Lath & Plaster Washer:

For attaching lath for adhered masonry

- Galvanized Steel for Corrosion Resistance.
- Keyholes for base coat bonding.

Plasti-Grip® CBW Washers:

For attaching building wrap



STONE ANCHORS

Steel Types: TMS 402 Building Code allows Mill Galvanized anchors for interior walls and requires Stainless Steel, Epoxy Coated, or Hotdip Galvanized after Fabrication for exterior walls. Specify accordingly.

STRAP ANCHORS: Typical dimensions are 1" to 2" wide x 16 gage to 3/8" thick x length required.

CORRUGATED ANCHORS: Maximum steel thickness is 3/16", 1/8" for stainless steel.

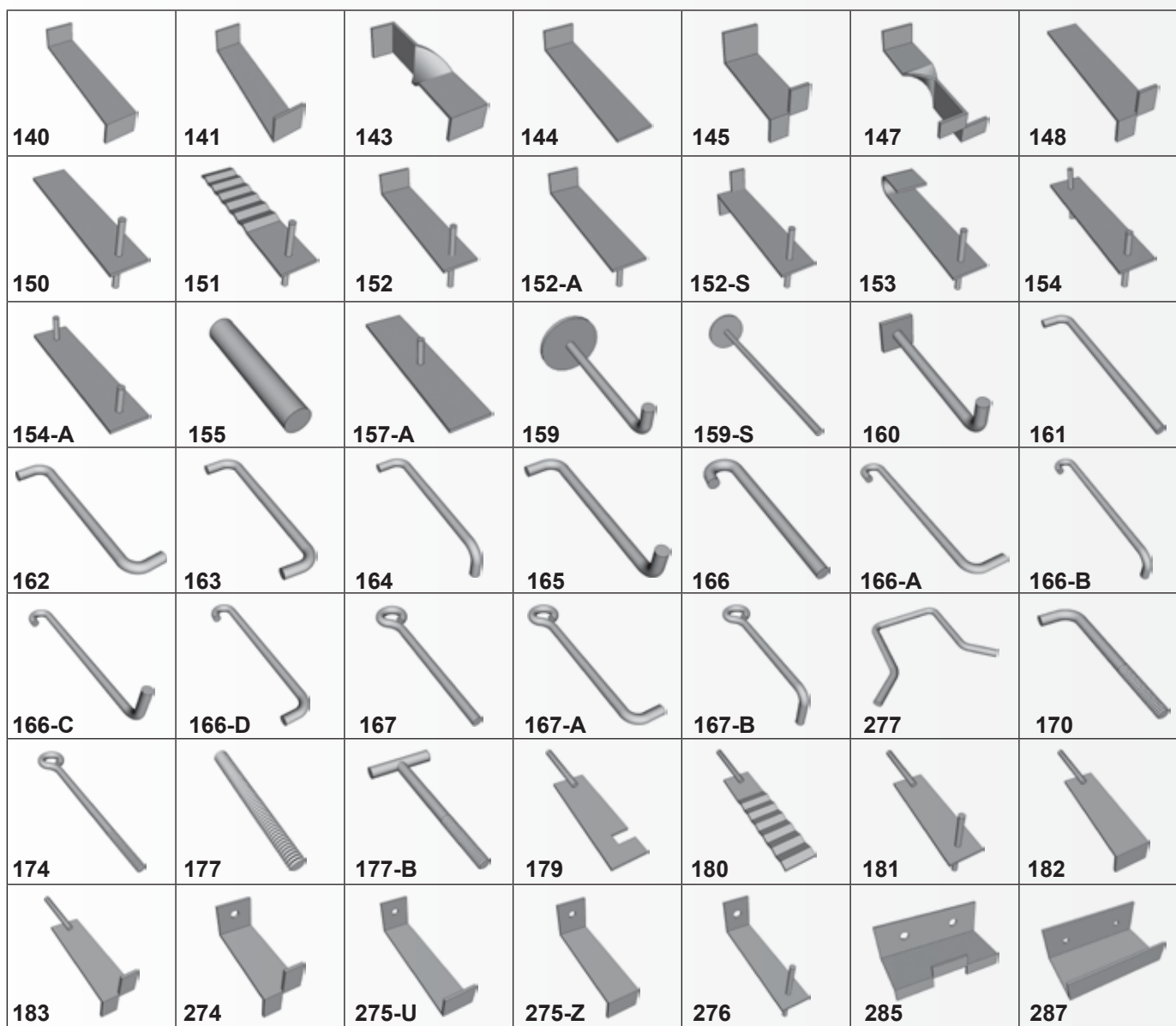
HOLES: Specify center spacing from designated end. Holes are typically 1/16" larger than the diameter of the dowel or fastener used.

TWIST: Twist is 1-3/4" long. Specify the length from the end of the anchor to the start of the twist. Twist is not available on steel thicker than 1/4" x 1", 3/16" x 1-1/2" or Stainless Steel thicker than 3/16" x 1" or 1/8" x 1-1/2".

SPLIT-BENDS: Recommend minimum of 1-1/4" width and minimum 1/2" i.d. split-bend length.

ANCHOR RODS AND ANCHOR BOLTS: Continuous or partially threaded rods are available with UNC (course) threads from 6-32 to 2" diameter, and in lengths up to 144".

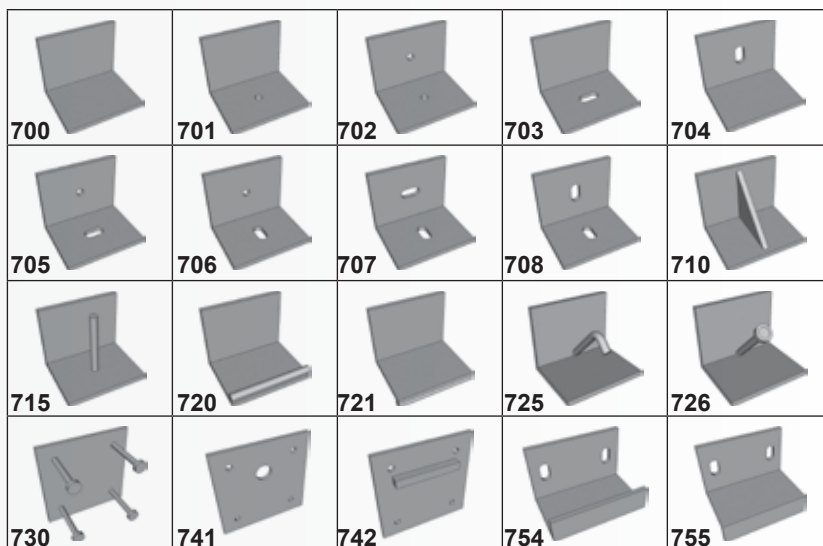
Stone installation must be designed in accordance with acceptable engineering practices and the recommendations of the stone fabricator. Stone Anchor Engineering Services are available in certain states through Heckmann for a fee. Call for details.



ANCHOR PLATES, ANGLES, LINTLES, & BENT PLATES

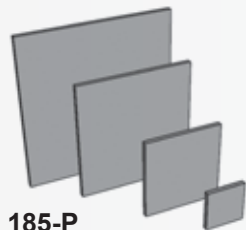
Used to attach structural members, veneers, or equipment to concrete structures. Plates and Angles can also be used to frame openings in concrete walls or as shelf angles. **Use with precast or cast-in-place concrete.** Custom fabricated to your design requirements. Specify catalog numbers, leg dimensions, slots, holes, lengths and rod dimensions where required.

Materials & Finishes: Plain, epoxy coated, hotdip galv, or stainless steel. **Options:** Holes, slots, gussets, dowels, and toe bars. Optional nail holes are typically 3/16" dia. and allow anchor plates to be fastened to inside faces of forms. (**Note:** Punched holes are more economical than drilled holes, but punch diameter must be greater than or equal to thickness of steel.)



#185-P Plastic Shims:

1" x 1", 2" x 2", 3" x 3" and 4" x 4" in thickness of 1/16", 1/8", 1/4" and 3/8".

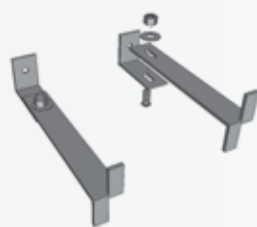


185-P

Adjustable Stone

Anchor:

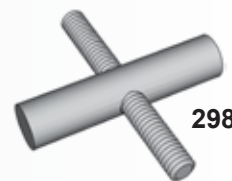
Made to order with slots for horizontal adjustment from the backup wall to the center of the stone. Shown is the #341-B (see page 12) for attachment to the backup, along with a #148 with a slot for placement in the stone. Line up the two anchors and bolt them together.



#298 Threaded Barrel

Anchor:

Used for stone attachments. Barrel is 3/4" or 5/8" diameter x 3" long with a 3/8" diameter threaded rod. Stainless Steel.

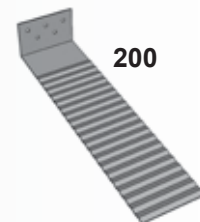


298

#200 Corrugated Buck

Anchor:

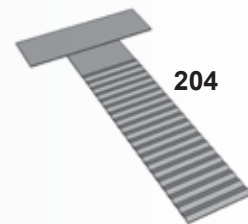
8" long available in widths of 1-1/4", 1-1/2", 2", 2-1/2", 3", or 4". 16 gage Mill Galvanized, Hotdip Galvanized, or Stainless Steel with 2" bend and staggered 3/16" holes.



200

#204 T-Buck Anchor:

Made to order to fit standard and custom hollow metal frames. Specify length and width of cross piece and type of steel to match metal frame. Standard corrugated shank is 10" long x 1-1/2" wide x 16 gage.



204

#355 Spring Loaded Dowels:

Spring loaded dowels are used to anchor adjacent stone panels to each other. The dowel is inserted spring-end first into a drilled hole in the stone. The dowel is compressed and held in place by a flat piece of steel. The depth of the hole in the second stone should be drilled half the length of the dowel. When the panels are aligned, the flat piece of steel is removed allowing the dowel to spring back into the second stone.

Furnished in Stainless Steel in dowel diameters of 3/8", 1/2", 5/8" or 3/4". To order, specify the length and diameter of dowel, and the overall length. The pins are shaved 1/2" for placement of the spring on 3/8" and 1/2" diameters. Spring is welded on larger diameters.



355

SHELF ANGLE (WEDGE) INSERTS & SHIMS

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

#425 Wedge Insert: These heavy-duty malleable iron inserts have three holes for nailing to forms. Anchor loops are designed to take 3/4" reinforcing bars or anchor rods for increased anchorage in concrete. Available in hot dip galvanized. (imported)

#427 Askew Head Bolts: The wedge-shaped heads of these steel bolts compliment the wedge-shaped inside face of the Wedge Insert. Available in hot dip galvanized. Furnished with washers and nuts. (imported)

#442 Plastic Shims: High impact plastic shims with up to 4500 p.s.i. compressive strength. Available in 1/16", 1/8", and 1/4" thicknesses. Specify bolt size.

#443 Steel Shims: Heckmann stocks steel shims in standard sizes, and custom fabricates them for special applications. Shims should be as long as the vertical legs of angles to prevent the angles from deflecting under load. 1/16", 1/8", and 1/4" thick shims are available in mill galvanized (1/8" max.), plain, hot dip galvanized, and stainless steel (1/8" max.).

See page 21 for Test Data on Shelf Angle Inserts or visit our website: www.heckmannanchors.com

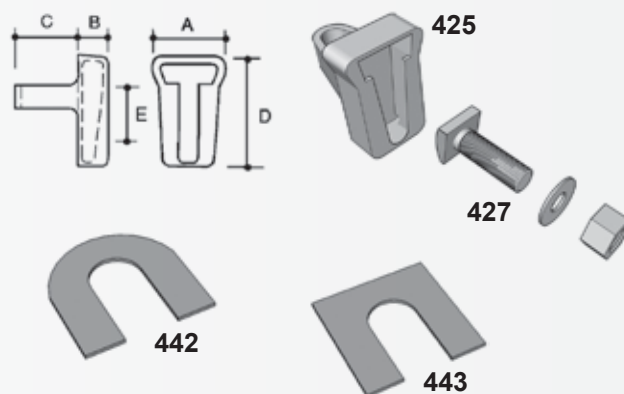
#425 Wedge Inserts

Bolt	Cat No.	A	B	C	D	E(1)
3/4	425-6	2-5/16"	1-3/16"	2-1/2"	3-7/8"	1-3/4"
3/4	425-6L(2)	2-1/4"	1-1/4"	2-3/8"	5-1/2"	3"

#427 Askew Head Bolts

Bolt	Cat No.	Available Lengths(3)
3/4"	427-6	1-1/2", 2", 2-1/2", 3"

- "E" is length of vertical adjustment for Askew Head Bolts.
- Long Inserts provide greater adjustability and can be placed near bottom of concrete beams. Anchor loops are 3-1/2" above bottom of insert and can be secured to bottom layer of beam reinforcing.
- Bolt extends beyond face of Insert approx. 1/4" less than specified length.



Minimum distance between bottom of slab and shelf angle insert is 1-1/2".

MASONRY WALL STABILIZING ANCHORS

These anchors are used to resist lateral loads at the top of masonry walls. They allow vertical deflection of the slab above while compressive loads are not transferred to the masonry wall below. The rods are 3/8" diameter x 6" long and the flat anchors are 12 gage. A plastic tube is embedded in the mortar to prevent the rod from bonding with the mortar. Available in Hotdip Galvanized or Stainless Steel.

#419 Pin Type:

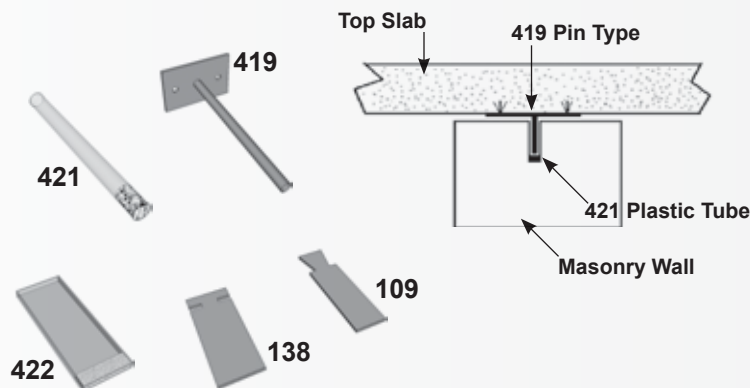
Attach to existing concrete slab or weld to structural beam.

#421 Plastic Tube:

For use with #419 Pin Type extending into masonry wall. Compressible filler included.

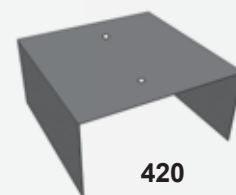
#422 Plastic Rectangle Tube:

For use with Flat Anchors extending into masonry wall. Foam filler included.



#420 Cap:

Attach to existing top slab and slide CMU inside bends. Plastic tubes not required.



MOISTURE CONTROL & WEEP SYSTEMS

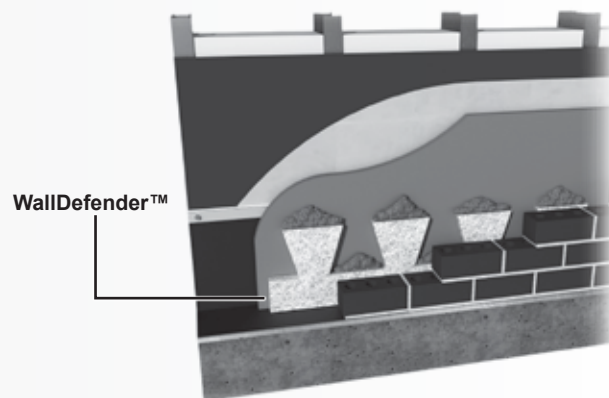
WallDefender™:

WallDefender™ is a mortar dropping collection device that breaks up and suspends mortar droppings on two levels above the flashing so weeps stay open, water can exit the cavity and walls can dry quickly and completely. Available in 1" and 2" thicknesses.

Benefits

- 90% open weave mesh provides hundreds of pathways for moisture to exit the cavity.
- Low fiber density allows air to move freely through the product to help promote drying.
- Fast, easy installation.

Weep holes must be used with WallDefender to allow effective moisture drainage and wall drying

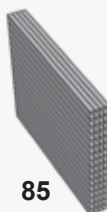


#85 Cell Vent:

Install in the bottom vertical mortar joint of a brick wall. The cellular composition provides easy drainage for moisture along the full height of the head joint. Colors: Clear, Gray, and Brown.

Regular: 3/8" wide x 2-1/2" high x 3-3/8" long

Jumbo: 3/8" wide x 3-3/8" high x 4" long



85

#330 Plastic Weephole:

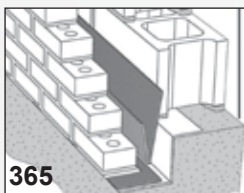
3/8" dia. clear plastic tube (1/4" i.d.) 4" long. Available open, with wick, and/or with brass or stainless screen. Custom lengths available.



330

#365 Trash Mortar Diverter™:

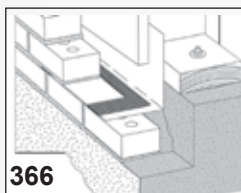
V-Shape funnels moisture toward the center of the cavity, away from the back side of the brick and the face of the back-up wall, then downward through three rows of holes to a weep system.



365

#366 Cavity Weep System:

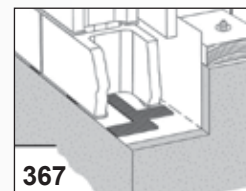
For Brick Veneer. The Cavity Weep System creates many openings at the lowest point of the cavity or core of the wall, continuously along the wall.



366

#367 Core/Cavity Weep™ System:

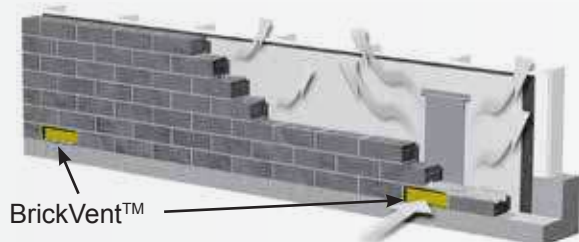
For CMU. The Core/Cavity Weep™ System creates openings at the lowest point of the core and cavity of the wall, continuously along the wall.



367

#368 BrickVent™ Moisture Control System:

Moisture and its effects: mold, spalling and efflorescence are a constant threat to masonry and a serious concern to the construction industry. The BrickVent™ Moisture Control System was designed to combat the effects of mold, spalling and efflorescence. BrickVent™ provides superior ventilation. In addition, builders can rest assured that the product installs easily and correctly, regardless of field conditions.



BrickVent™

Backplate

BrickVent™

Please visit our website for more detailed information.

REINFORCEMENT ITEMS

MASONRY WALL REINFORCEMENT

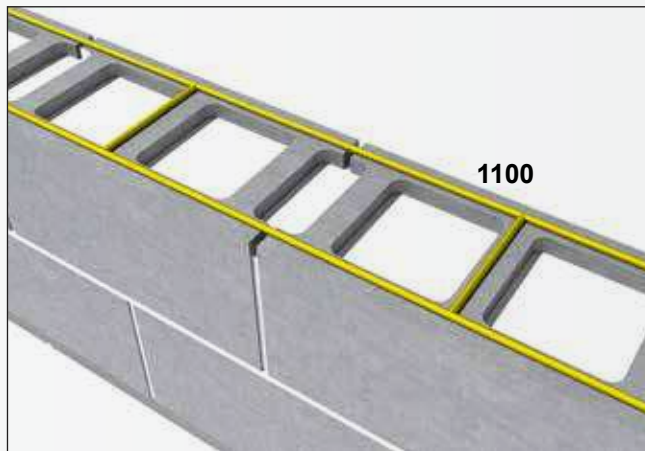
#1100 Ladder-Type

Masonry Wall Reinforcement:

Manufactured from 9 gage wire, 10' 8" long with butt-welded perpendicular cross wires welded 16" on center to avoid interference with reinforcement in block cores. Wire is deformed for maximum bonding in mortar joints.

Packaged in 50 pc (500 ft) bundles. Available for 4", 6", 8", 10" & 12" masonry walls. Special sizes and lengths are available. ASTM A 82 cold drawn steel wire. Available in Hotdip Galv. (ASTM A 153 Class B-2), Stainless Steel (ASTM A 580 Type 304), Epoxy Coated and Mill Galvanized (ASTM A 641).

Please call for additional reinforcement types and sizes.



GLASS BLOCK ACCESSORIES FOR RESIDENTIAL AND COMMERCIAL

#410 Glass Block Panel Anchors:

#410-S: 22 gage x 1-3/4" wide x 16" long. Type 304 Stainless Steel.

#411 Glass Block Reinforcement: 9 gage wire cross-wires 16" o.c. Available in 2 lengths (4 ft and 10ft). Available in 2 widths (1-5/8" and 2"). Stainless Steel.

411-316S: 3 ft x 1-5/8" wide

411-1016S: 10 ft x 1-5/8" wide

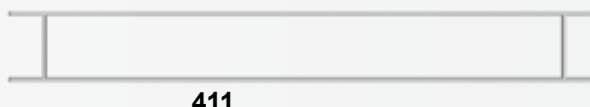
411-416S: 4 ft x 1-5/8" wide

411-102S: 10 ft x 2" wide

411-42S: 4 ft x 2" wide



410



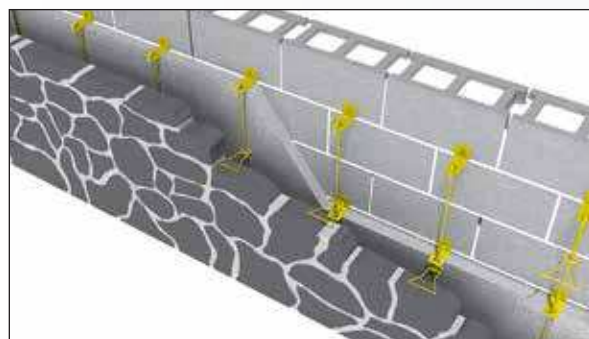
411

RUBBLE STONE ANCHORS

#398 Rubble Stone Wire Tie:

The rubble stone wire tie allows for easy installation of the wire ties by eliminating pre-loading of the ties onto the vertical rods.

- For attaching Rubble Stone to wood, steel studs, CMU, and concrete backup walls.
- Eliminates Pre-Loading of ties onto 1/4" or 3/8" vertical rods.
- Twist-On Ties are 3/16" diameter Hotdip or Stainless Steel. Specify Length of Tie.



Rubble Stone Anchoring System:

#398-C L-Type Rubble Clips:

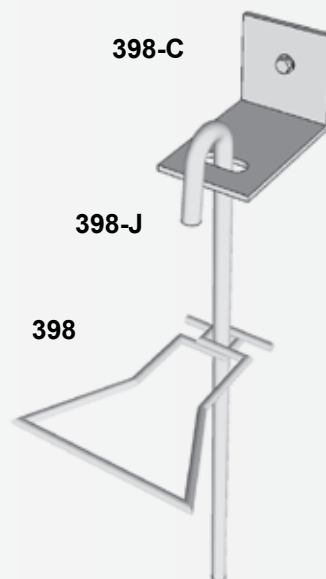
12 gage x 2-3/4" wide x length required.

#398-J Hook Rod:

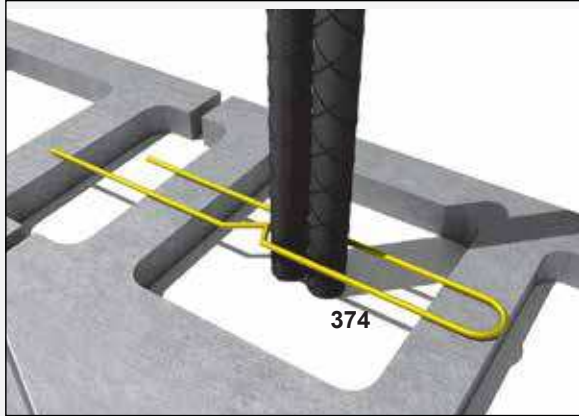
52" long x 5/16" diameter or 3/8" diameter.

#398 Rubble Stone Twist-On Wire Tie:

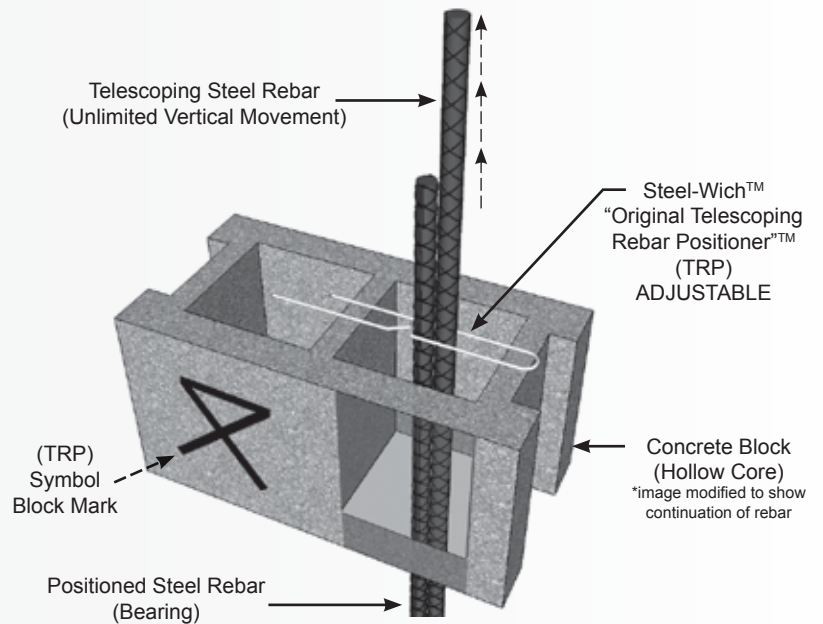
3/16" dia x length required



REBAR POSITIONERS



U.S. Patent# 6240688 & 6141937
U.F.G.S. - Federal Specification



#374 STEEL-WICH™ "Original Telescoping Rebar Positioner"™ (TRP):

Increases productivity by eliminating overhead lifting of heavy block over rebar. Allows for shift load transfer in J-hooked rebar bond beam configuration. The STEEL-WICH™ (TRP) is a balanced system that holds rebar in place while installing the next course of block. Reach down, turn rebar 90°, pull rebar up into place and turn 90° again to lock rebar.

The STEEL-WICH™ (TRP) eliminates need to grout block wall cores in sections, and allows for a monolithic pour of grout (important in seismic zones). Minimizes rebar waste by an accurate and secure placement method and provides superior structural strength by precise location of vertical reinforcing steel. The STEEL-WICH™ (TRP) allows for full realization of the tensile strength of the rebar, thus meeting specified building code and design requirements (superior splice joint). Promotes ergonomics, increases jobsite safety, and helps prevent impalement injury. Preserves block integrity, helps eliminate blowouts, provides containment within vertical core, and prevents grout waste. The STEEL-WICH™ (TRP) Adjustable Rebar Positioner can be used to retrofit rebar in hollow unreinforced CMU walls.

Three Sizes: **374TRP1** for #3, #4 and #5 rebar
374TRP2 for #5 and #6 rebar
374TRP2B for #7 and #8 rebar.

Please visit www.heckmannanchors.com for more details and installation videos.



#376 Rebar Positioner



#377 Center Cage
Vertical Rod Positioner



#379 Centering Clip for
Horizontal Rods

9 gage wire positioners for 8" and 12" block. Available in Mill Galvanized and Hotdip Galvanized After Fabrication.

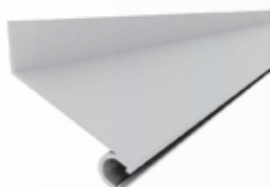
MISCELLANEOUS ITEMS

FLASHING SYSTEMS

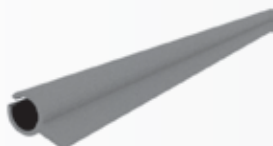


#388: Flash Trac Flashing System:

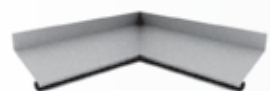
Flash Trac uses a simple process in which the flashing receiver is placed on the wall prior to the application of spray foam insulation. The receiver can remain indefinitely until the brick or block are to be laid. The flashing is then inserted into the receiver where a retaining rod holds it securely.



Wall Bracket



Retaining Rod



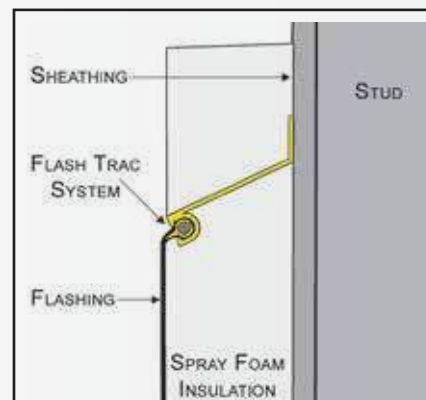
Inside Corner



Outside Corner



Installation Tool



CONSTRUCTION JOINTS

Metal Construction Joints are versatile problem solvers. Use for expansion joints, waterstops, weakness or control joints in concrete or masonry. Also, use in formwork to create reveals and drip edges on formed surfaces of concrete. Furnished in 10 ft lengths.

Gages and Finishes: Available in 26, 24, 22, 20, 18, and 16 gage Stainless Steel, Mill Galvanized and 16 oz Copper.



90-L



91



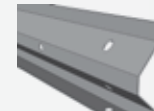
95



93-U



94-V



95-L

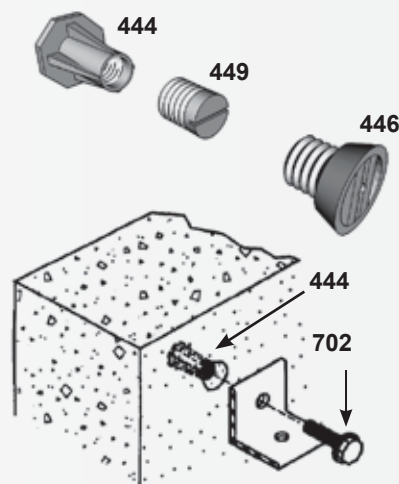
THREADED INSERTS

Use Threaded Inserts to anchor precast concrete panels to steel frames.

#444 Threaded Inserts: Die-cast Zamac 5 zinc alloy offers strength and corrosion resistance. Use with **#174 Threaded Eye Bolts** or with standard machine bolts. Install in precast and cast-in-place concrete or in grout filled concrete masonry units. #444 Threaded Insert is also available in plastic. (imported)

#446 Adapter Plugs: Use Adapters to attach **Threaded Inserts** to formwork and to keep threads clean until equipment is installed. Adapters are die-cast zinc alloy and have a 5/32" diameter nail hole. Adapters can be removed from Insert with either a flat screwdriver or pliers. (imported)

#449 Brass Plugs: Plugs keep Threaded Inserts clean when not in use. Plugs have flat screwdriver slots.



MISCELLANEOUS ITEMS

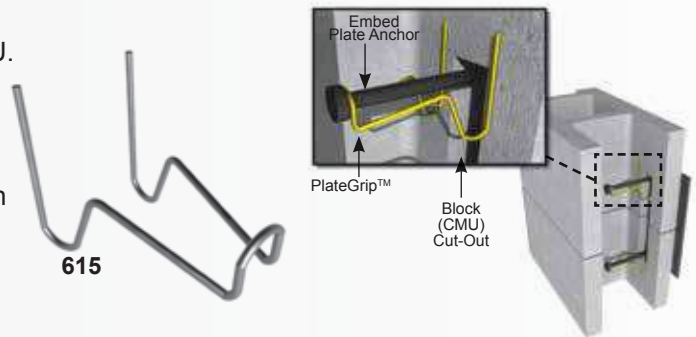
PLATEGRIP™ EMBED PLATE HOLDER

#615 PlateGrip™ is a fast efficient way to hold an embed plate in place. PlateGrip™ works on all common size CMU.

Easily vibrates around the studs without blowout or plate displacement. It does not interfere with reinforcing.

Not just an accessory ... A TOOL to make plate installation faster, easier and more successful.

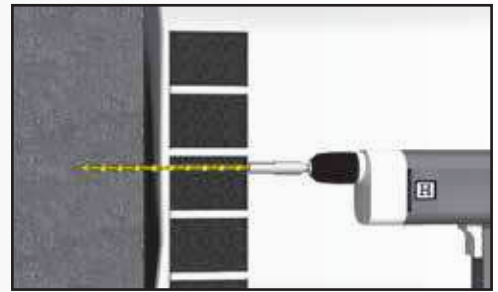
Available in Stainless Steel, Hotdip Galvanized & Electro Galvanized



BRICK VENEER RESTORATION SYSTEM

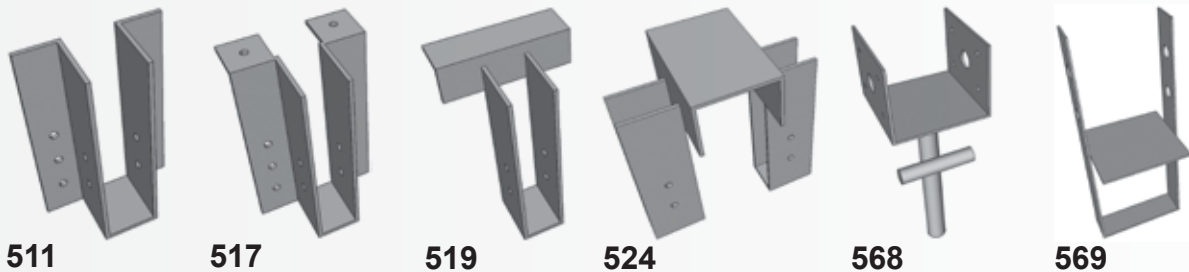
#391 Remedial Tie: Used in existing cavity walls which are inadequately restrained as a result of insufficient or badly corroded ties or where ties have been omitted.

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. Visit our website www.heckmannanchors.com for details.



CUSTOM JOIST HANGERS

Heckmann manufactures quality custom-made joist hangers for a variety of applications for commercial, residential and retrofit projects.



CUSTOM FABRICATION

If you don't see an anchoring configuration that works for your situation, let us quote you on your custom fabrications. Fax or email your design drawings to our expert sales staff.



MISCELLANEOUS ITEMS

CEILING HANGERS

Cast in Place

#460 Nailer Ceiling Insert.

#461 Ceiling Hanger Insert.

Precast Inserts

#486 V-Type

#487 Double V-Type

#488 T-Type



460



461



486



487



488

OTHER ITEMS

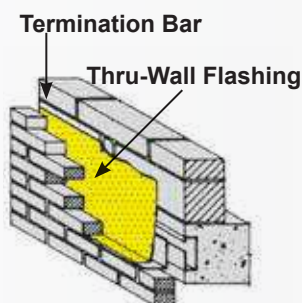
#80 Fiberweb® Thru-Wall Flashing

FIBERWEB® 200:

Manufactured from black laminate of polyester film, 20 x 10 fiberglass scrim and a layer of vinyl film. Average 8 mils thick.

FIBERWEB® 300:

1/3 mil metal foil laminated between layers of polyester film bonded to a 20 x 10 fiberglass scrim reinforcement. Fiberweb 300 has a total average mil thickness of 7 mils.



#87 Dowel Caps:

Dowel caps create a void in concrete so dowels can slide and not restrain movement in concrete slabs. Available in plastic only.

#45 Band Iron Tightener

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

#155 Dowels:

Specify diameter, length, and finish.



MATERIALS & 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*. Type 304 2B Finish.

HOTDIP GALVANIZED AFTER FABRICATION: ASTM A 153. Class B-2: (1.50 oz/ft²)(0.46kg/m²)*

MILL GALVANIZED: ASTM A653 G60.* ASTM A 641 (0.1 oz/ft²)*

UNCOATED STEEL:

Sheets: ASTM A 1008/A 1008M

Plates, Bars, and Shapes: ASTM A36/A 36-M96.

Wire: ASTM A 82. ASTM A82M-07

Wire Reinforcement: ASTM A951 / A951M-06

* TMS 402 CODE REQUIREMENTS

WARRANTY: Heckmann Building Products Inc. warrants its manufactured products to be free from defects in materials or manufacturing. The sole remedy of purchaser under this warranty is that Heckmann will repair or replace any of its products it finds to be defective. No warranties of fitness and no warranties of merchantability for a particular use or purpose are hereby made. This warranty is expressly in lieu of any other warranties implied or expressed. Heckmann will not be responsible for any consequential or incidental loss however caused.

Some products may vary slightly from the photographs and drawings shown in the catalog.

ENGINEERING GUIDE

#75 Pos-I-Tie® Brick Veneer Anchoring System:

Brick Veneer to Steel Studs:

Tension Test: Failure modes: 1 sample screw pulled out of steel stud, 2 samples had the triangle tie pullout from the mortar joint, 2 samples had the Pos-I-Tie® eye fracture.

Peak Tension Loads: 679 pounds.

Compression Test: Failure modes: All samples failed by buckling of the ties.

Peak Compression Loads: 1,394 pounds.

Brick Veneer to CMU:

Peak Tension Loads: face shell aligned with the cross-web: **419 pounds.** Fracture of the eyelet.

Peak Tension Loads: face shell aligned with the empty cell: **544 pounds.** 4 units fractured eyelet, one unit had the triangle tie pull out from the mortar joint.

Pos-I-Tie® Self-Drilling Screws:

ultimate pullouts from steel studs only.

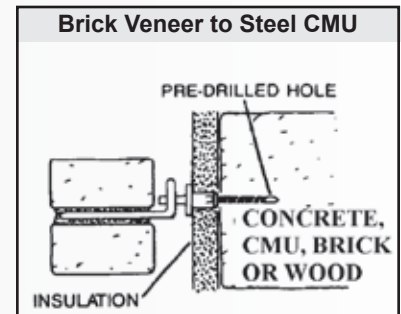
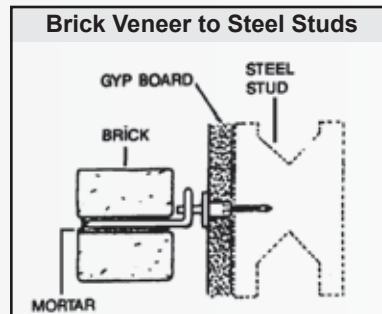
20 gage - 321 pounds

18 gage - 537 pounds

16 gage - 701 pounds

14 gage - 981 pounds

12 gage - 1,602 pounds



Air and Water Penetration Testing of the Original Pos-I-Tie®

3 separate tests were done for compliance with Chapter 13, "Energy Conservation" in the Commonwealth of Massachusetts State Building Code. All three tests were performed in a negative pressure chamber. In all cases, no leakage of air or water were recorded.

#100 Dovetail Anchor Slot and #103 Dovetail Triangle Tie:

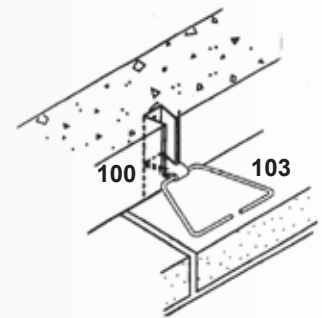
Peak Loads:

Tension: 751 pounds - Failure of Dovetail Triangle Clip and the Triangle Tie.

Compression 1" Cavity: 616 pounds - Failure of Dovetail Triangle Clip rotating and coming to bear on the dovetail slot and the triangle tie pushing through the clip.

Compression 3" Cavity: 701 pounds - Same failure as 1" cavity.

Shear: 371 pounds - Triangle Clip slipped on the wire deforming the triangle tie and then pulled out of the mortar joint.



TENSION	COMPRESSION 1" CAVITY	COMPRESSION 3" CAVITY	SHEAR
751 lbs.	616 lbs.	701 lbs.	371 lbs.

#100 Dovetail Anchor Slot - Pullout of anchors from slots only:

Test was only for failure of a dovetail anchor pulling out from the slot.

Peak Loads:

TEST RESULTS	22 GAGE SLOTS		24 GAGE SLOTS	
PULLOUT OF ANCHOR FROM SLOT ONLY	NO. ANCHORS TESTED	AVERAGE PULLOUT	NO. ANCHORS TESTED	AVERAGE PULLOUT
16 GAGE ANCHORS	5	600.5 lbs.	3	589.2 lbs.
12 GAGE ANCHORS	2	965 lbs.	4	939 lbs.

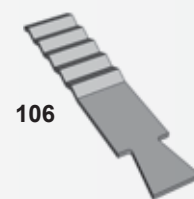
ENGINEERING GUIDE

#106 Dovetail Corrugated Anchors:

Failure occurred when the anchors pulled out and the bricks separated along the mortar joints.

Peak Loads:

12 GAGE ANCHORS	16 GAGE ANCHORS
1,479 lbs.	1,194 lbs.

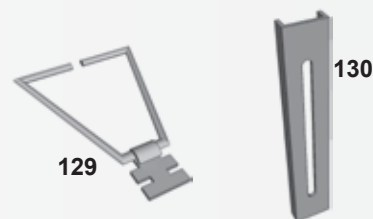


#130 Weld-On Channel Slot and #129 Channel Slot Triangle Tie:

Failures occurred with the clip separating from the triangle tie.

Peak Loads:

TENSION	COMPRESSION 2" CAVITY	COMPRESSION 4" CAVITY
935 lbs.	515 lbs.	578 lbs.

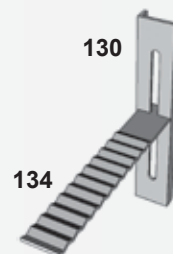


#130 Weld-On Channel Slot - pullout of Channel slot anchor from channel slot:

16 gage Channel Slot anchors were pulled from the slots.

Peak Loads:

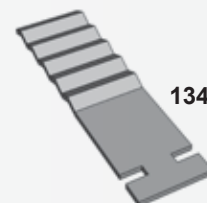
11 GAGE SLOTS	16 GAGE SLOTS
950 lbs.	668 lbs.



#134 Channel Slot Corrugated Anchor:

Failure occurred with the anchor pulling out of the joint and the bricks separating.

11 GAGE SLOTS
1,265 lbs.



#187 Brick Veneer Anchor:

Failure occurred with the screw elongating the hole and tearing the metal.

Peak Loads:

At **300lbs** pounds the bend straightened out. At **760 lbs** pounds the metal began to tear around the hole. At **829 lbs** the screw pulled out of the hole.



#189 L-Type Column Anchors - test of notch only:

The bend was braced and the two anchors were pulled to fail at the notches only.

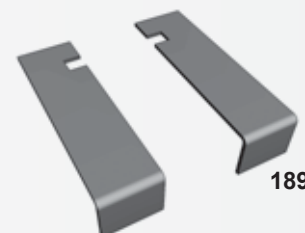
Peak Loads:

5/8" x 1" NOTCH ONLY	3/4" x 1" NOTCH ONLY
6,150 lbs.	6,350 lbs.

5/8" x 1" notch failed at **6,150 lbs**

3/4" x 1" notch failed at **6,350 lbs**

Visible straightening was noted at the bends at approximately **1,500 to 2,000 lbs.**

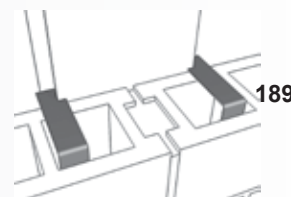


ENGINEERING GUIDE

#189 L-Type Column Anchors - Tested in pairs with steel column and CMU wall:

Peak Loads:

TENSION	COMPRESSION 1" CAVITY	COMPRESSION 4" CAVITY	SHEAR
3,242 lbs.	9,863 lbs.	6,373 lbs.	1,584 lbs.

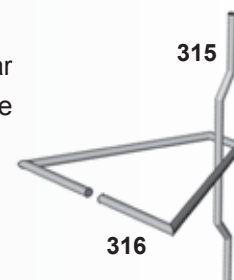


#315 Weld-On Anchor Rod with #316 Triangle Tie:

Tension failure occurred with the elongation of the triangle tie and eventual pullout from the mortar joint. Compression failure was the deformation and buckling of the wire with a secondary failure mode of the mortar joint.

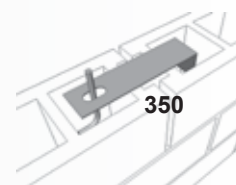
Peak Loads:

TENSION	COMPRESSION 1" CAVITY	COMPRESSION 2" CAVITY
816 lbs.	1,159 lbs.	727 lbs.



#350 Heavy Duty Control Joint Anchor:

Design Load for ultimate capacity in out-of-plane shear transfer based on the shear and bearing strength of the steel. This assumes both the rod and the plate are fully and completely embedded in grout with a minimum of 3000 psi compressive strength. **Design Load: 1,500 lbs.**



#425 Wedge Inserts:

TEST 1:

A short length of 1/2" reinforcing bar was placed through the insert loop into the 3,000 psi concrete.

Pullout Test:

INSERT	MAX. LOAD. lbs.	FAILURE
3/4	9,830 lbs.	Concrete broke around insert body and cracked at reinforcing bar. Insert did not break.
3/4 Long	12,860 lbs.	Lips along slot of insert broke. Concrete broke along side body. Insert did not pull out of concrete.

SHEAR TEST:

The tests were made at the mid point of the slot of the insert. The load was applied 2" out from the surface of the concrete.

INSERT	MAX. LOAD. lbs.	FAILURE
3/4"	11,100 lbs.	Maximum Load. Threads stripped on bolt.
3/4" ong	19,150 lbs.	Maximum Load. Bolt had slipped to bottom of slot and head sheared.

TEST 2:

SHEAR TEST:

Test: ASTM E 488-76

Concrete compressive strength was 5,860 psi. Concrete fractured in all specimens, but insert did not fail.

INSERT	AVERAGE FAILURE
3/4"	7,230 lbs.
3/4" Long	8,727 lbs.

TEST 3:

PULLOUT TEST:

Test: ASTM E 488-76

Concrete compressive strength was 6,040 psi.

INSERT	AVERAGE FAILURE
3/4"	5,633 lbs.
3/4" Long	7,433 lbs.

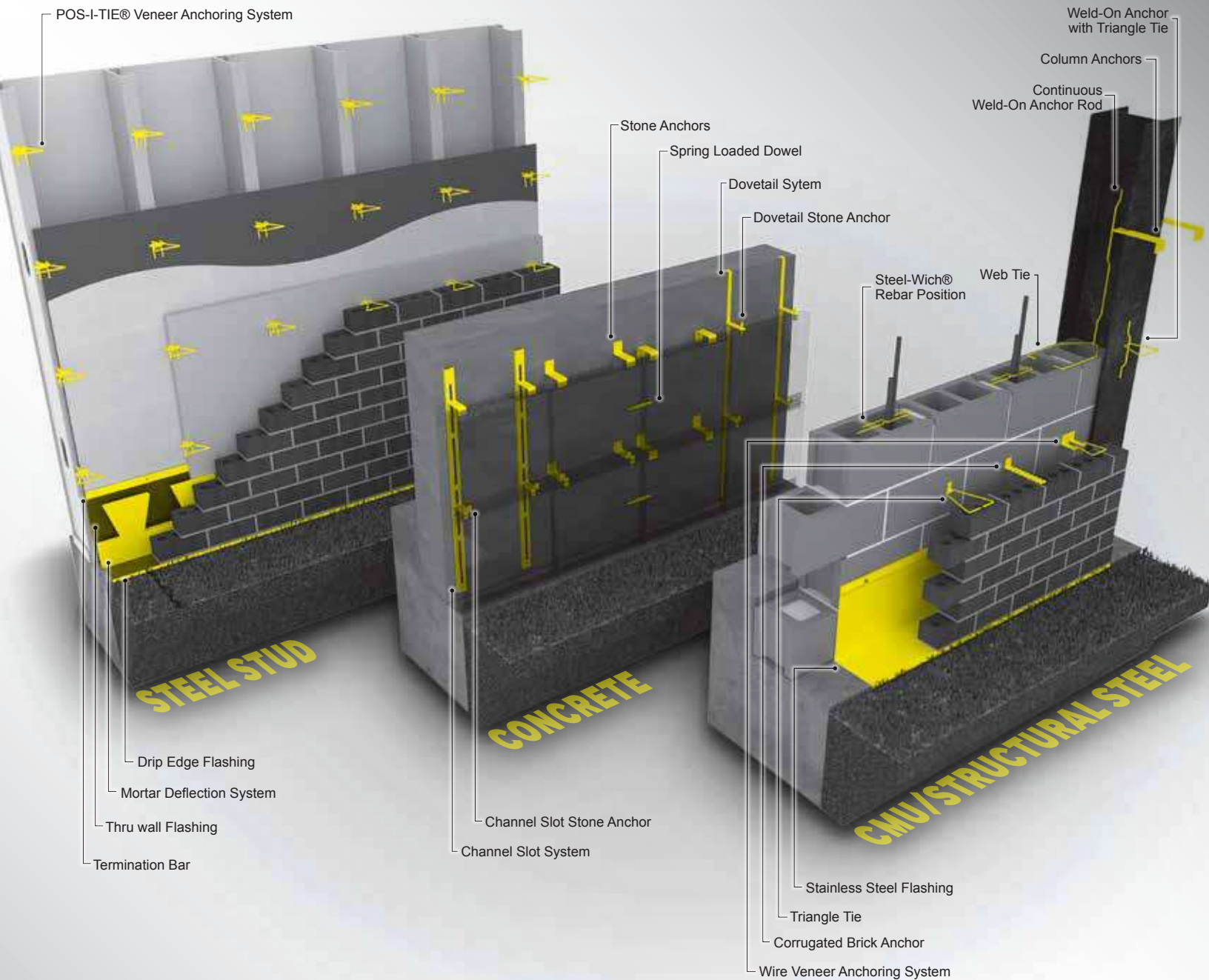
TEST 4:

(3/4" Long Insert Only)

PULLOUT TEST:

Failure:

Specimen 1	Specimen 2
11,030 lbs.	10,140 lbs.



Your **#1**
Source for
Masonry Ties
& **Accessories**

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