

### HILTI SUBMITTAL PACKAGE INSTALLATION SYSTEMS

SUBMITTED TO:

NAME \_\_\_\_\_

PROJECT \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_



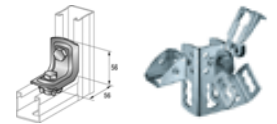
PREPARED BY:

NAME \_\_\_\_\_

COMPANY \_\_\_\_\_

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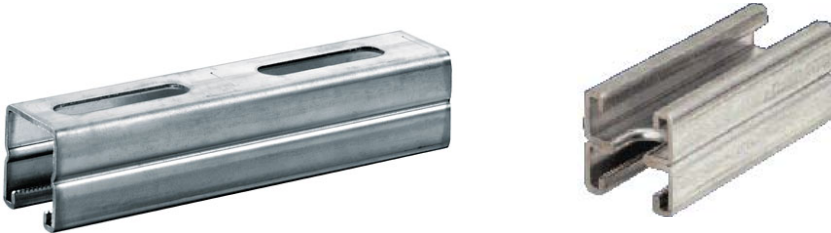


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**Product Submitted:** Hilti Strut



**Feature/service:**

- C-profile with serrated edges for greater hold and stability
- Scaled tick marks every 2" to assist with measurement, cutting and installation
- Slots for greater flexibility
- Longitudinal swaging for greater strength

**Size Range:** See subsequent tables

**Material:** Metal framing strut shall be C-profile channel with serrated rolled edges, fabricated from structural grade steel conforming to one of the following specifications ASTM A570 GR33, or ASTM A653 GR 33.

Nominal thickness of 12-gauge strip steel is 0.101 inches (2.57mm); 14-gauge is 0.075 inches (1.9mm).

Allowable design stress is 25000 psi (172 MPa = 172 N/mm<sup>2</sup>)

**Finish:** **Pre-Galvanized**

Pre-galvanized strut shall be zinc coated by hot dip process prior to roll forming. The zinc weight shall be G90 in accordance with ASTM A653. (PG)

**Electro-Deposition Coating**

Electro-Deposition Coating or "E-Coating" uses electricity to deposit a smooth, thin uniform layer of plastic coating on the surface of the steel channel. The epoxy-coated strut is then cured in an oven at approximately 400°F for at least 20 minutes. Salt spray (fog) testing has been conducted to verify the performance of the finish - the plastic coating withstood 1000 hours in a salt spray chamber, when tested in accordance with ASTM B1117-95 specification. Since the coating is applied as a liquid, the epoxy travels into crevices and trouble spaces so that outside moisture is less able to invade the coated area and cause corrosion. (EC)

**Hot-Dip Galvanized**

Hot-dip galvanized strut according to ASTM A123 (HDG)

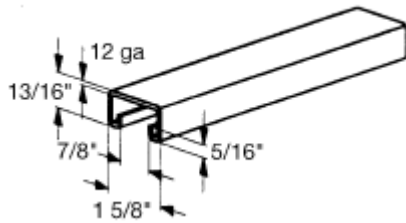
**Stainless Steel**

316 Ti Stainless Steel strut (SS)

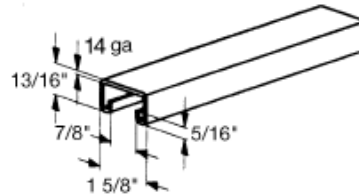
**Technical Data:** For additional technical data, including Beam and Column loading tables, consult the Hilti Product Technical Guide H440 or visit the Technical Center [www.us.hilti.com](http://www.us.hilti.com)

## Ordering/Technical Information:

### 13/16" - 12 Gauge



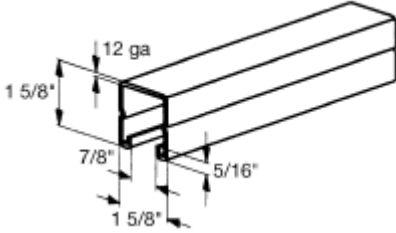
### 13/16" - 14 Gauge



Item #	Description	Slot Configuration	Finish	Package Qty.	Weight/Piece (lbs)
3424461	1316-12/PG 10'	2-1/2" x 9/16"	PG	1	12.2
3424462	1316-12/PG 10' VIP	2-1/2" x 9/16"	PG	50	12.2
3424483	1316-12/PG 20'	2-1/2" x 9/16"	PG	1	24.3
3424484	1316-12/PG 20' VIP	2-1/2" x 9/16"	PG	50	24.3
3424457	1316-12/PG 10' SOLID	Solid	PG	1	15.4
3424458	1316-12/PG 10' SOLID VIP	Solid	PG	50	15.4
3424459	1316-12/PG 20' SOLID	Solid	PG	1	30.8
3424460	1316-12/PG 20' SOLID VIP	Solid	PG	50	30.8
3424485	1316-12/HDG 10'	2-1/2" x 9/16"	HDG	1	12.2
3424486	1316-12/HDG 10' VIP	2-1/2" x 9/16"	HDG	50	12.2

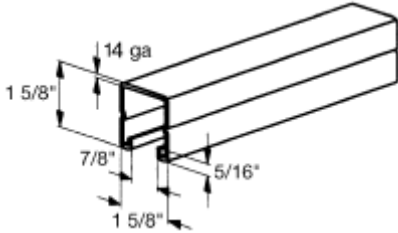
Item #	Description	Slot Configuration	Finish	Package Qty.	Weight/Piece (lbs)
3424493	1316-14/PG 10'	2-1/2" x 9/16"	PG	1	8.7
3424494	1316-14/PG 10' VIP	2-1/2" x 9/16"	PG	50	8.7
3424495	1316-14/PG 20'	2-1/2" x 9/16"	PG	1	17.4
3424496	1316-14/PG 20' VIP	2-1/2" x 9/16"	PG	50	17.4
3424491	1316-14/PG 10' SOLID	Solid	PG	1	9.7
3424492	1316-14/PG 10' SOLID VIP	Solid	PG	50	9.7
3422497	1316-14/GR E-COAT 10'	2-1/2" x 9/16"	EC	1	8.7
3422498	1316-14/GR E-COAT 10' VIP	2-1/2" x 9/16"	EC	50	8.7

## 1-5/8" - 12 Gauge



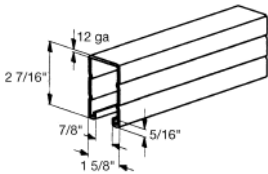
Item #	Description	Slot Configuration	Finish	Package Qty.	Weight/Piece (lbs)
3424499	158-12/PG 10' SOLID	Solid	PG	1	18.5
3424500	158-12/PG 10' SOLID VIP	Solid	PG	50	18.5
3424501	158-12/PG 20' SOLID	Solid	PG	1	37
3424502	158-12/PG 20' SOLID VIP	Solid	PG	50	37
3424503	158-12/PG 2'	2-1/2" x 9/16"	PG	1	3.6
3424504	158-12/PG 2' VIP	2-1/2" x 9/16"	PG	50	3.6
3424505	158-12/PG 4'	2-1/2" x 9/16"	PG	1	7.2
3424506	158-12/PG 4' VIP	2-1/2" x 9/16"	PG	50	7.2
3424507	158-12/PG 6'	2-1/2" x 9/16"	PG	1	10.8
3424508	158-12/PG 6' VIP	2-1/2" x 9/16"	PG	50	10.8
3424509	158-12/PG 6'-8"	2-1/2" x 9/16"	PG	1	12
3424510	158-12/PG 6'-8" VIP	2-1/2" x 9/16"	PG	50	12
3424511	158-12/PG 10'	2-1/2" x 9/16"	PG	1	18
3424512	158-12/PG 10' VIP	2-1/2" x 9/16"	PG	50	18
3424513	158-12/PG 20'	2-1/2" x 9/16"	PG	1	36
3424514	158-12/PG 20' VIP	2-1/2" x 9/16"	PG	50	36
3424519	158-12/PG 10' 11/16" Slot	2-5/8" x 11/16"	PG	1	18
3424520	158-12/PG 10' 11/16" Slot VIP	2-5/8" x 11/16"	PG	50	18
3424521	158-12/HDG 10'	2-1/2" x 9/16"	HDG	1	18
3424522	158-12/HDG 10' VIP	2-1/2" x 9/16"	HDG	50	18
3424523	158-12GR /E-COAT 10'	2-1/2" x 9/16"	EC	1	18
3424524	158-12/GR E-COAT 10' VIP	2-1/2" x 9/16"	EC	50	18
3424525	158-12/GR E-COAT 20'	2-1/2" x 9/16"	EC	1	36
3424526	158-12/GR E-COAT 20' VIP	2-1/2" x 9/16"	EC	50	36
3424527	158-12/SS 316 Ti 3m (10'-1")	2-1/2" x 9/16"	SS	1	18.5
3424528	158-12/SS 316 Ti 3m (10'-1") VIP	2-1/2" x 9/16"	SS	12	18.5

## 1-5/8" - 14 Gauge



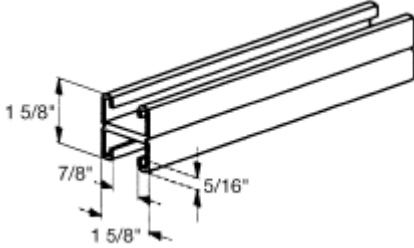
Item #	Description	Slot Configuration	Finish	Package Qty.	Weight/Piece (lbs)
3424531	158-14/PG 10'	2-1/2" x 9/16"	PG	1	13.6
3424532	158-14/PG 10' VIP	2-1/2" x 9/16"	PG	50	13.6
3424533	158-14/PG 20'	2-1/2" x 9/16"	PG	1	27.2
3424534	158-14/PG 20' VIP	2-1/2" x 9/16"	PG	50	27.2
3428084	158-14/PG 10' SOLID	Solid	PG	1	14.5
3428085	158-14/PG 10' SOLID VIP	Solid	PG	50	14.5

## 2-7/16" - 12 Gauge



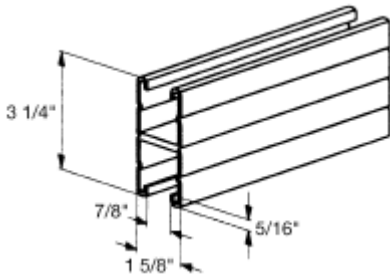
	Description	Slot Configuration	Finish	Package Qty.	Weight/Piece (lbs)
3424535	2716-12/PG 10'	2-1/2" x 9/16"	PG	1	24.5
3424536	2716-12/PG 10' VIP	2-1/2" x 9/16"	PG	40	24.5
3424537	2716-12/PG 20'	2-1/2" x 9/16"	PG	1	49
3424538	2716-12/PG 20' VIP	2-1/2" x 9/16"	PG	40	49
3424086	2716-12/PG 20' 11/16" SLOT	2-5/8" x 11/16"	PG	1	49

## 13/16" Back to back - 12 Gauge



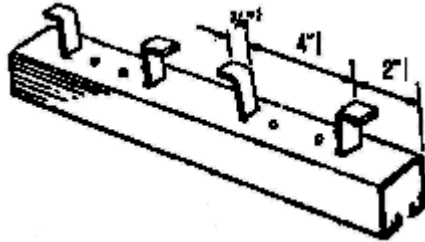
Item #	Description	Slot Configuration	Finish	Package Qty.	Weight/Piece (lbs)
3424489	1316-12/PG 3m (10'-1") B2B	1-9/16" X 9/16"	PG	1	23.6
3424490	1316-12/PG 3m (10'-1") B2B VIP	1-9/16" X 9/16"	PG	25	23.6

## 1-5/8" Back to back - 12 Gauge



Item #	Description	Slot Configuration	Finish	Package Qty.	Weight/Piece (lbs)
3424515	158-12/PG 3m (10'-1") B2B	1-9/16" X 9/16"	PG	1	36.8
3424516	158-12/PG 3m (10'-1") B2B VIP	1-9/16" X 9/16"	PG	25	36.8
3424517	158-12/PG 6m (19'-11") B2B	1-9/16" X 9/16"	PG	1	72.7
3424518	158-12/PG 6m (19'-11") B2B VIP	1-9/16" X 9/16"	PG	25	72.7
3424529	158-12/SS 316 Ti 3m (10'-1") B2B	1-9/16" X 9/16"	SS	1	36.8
3424530	158-12/SS 316 Ti 3m (10'-1") B2B VIP	1-9/16" X 9/16"	SS	6	36.8

## Product Submitted: CIS Continuous Concrete Insert Strut



### Feature/service:

The continuous concrete insert strut is manufactured from generic channel sections. Concrete inserts are used where a continuous insert slot is required for the attachment of piping, framing or equipment to concrete structures at any point along the channel. They may be installed in floors, walls or ceilings. The concrete inserts can be nailed to forms through the holes provided; these holes are plugged with silicon. End caps and closure strips are provided to prevent concrete seepage.

**Size Range:** 1-3/8" tall x 1-5/8" wide x 20' long  
13/16" tall x 1-5/8" wide x 20' long

**Material:** Carbon Steel

**Finish:** Pre-Galvanized

### Ordering Information:

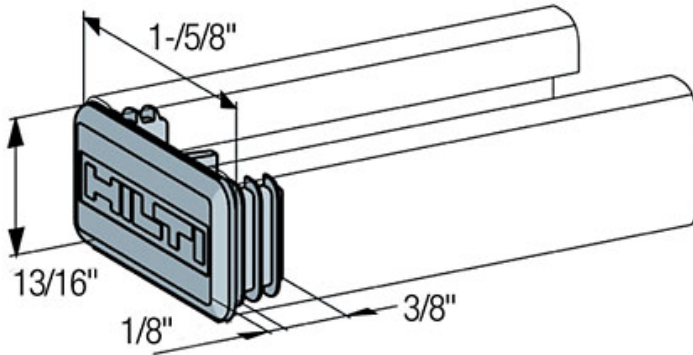
Item #	Description	Box Qty
Specials	Strut CIS 138 - 12/PG 20'	20
Specials	Strut CIS 1316 - 14/PG 20'	20

### Technical Information\*:

**CIS 138-12/PG** Designed for a tensile load of 2000 pounds/ft on lengths from 12 in to 20 ft. Loads within the last 2 inches of the inserts should not exceed 1000 pounds.

\*Loads are based on concrete with a compressive strength of 2500 to 3000 psi with a safety factor of 3. The minimum distance between the insert strut centerline and the concrete edge is 3". The connection between concrete and insert must be evaluated separately.

### Product Submitted: MEK Strut Endcap



#### Feature/service:

- Helps protect hands from sharp edges when handling and using strut
- Functions in all Hilti strut profiles

**Size Range:** Available in one size. For use with all sizes of Hilti strut.

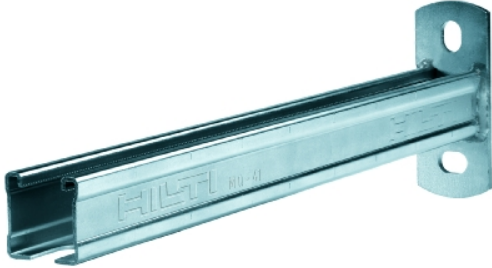
**Material:** Plastic

**Finish:** Red or Gray

#### Ordering/Technical Information:

Item #	Description	Box Qty
00244886	MEK Red	50
00313377	MEK Gray	50

## Product Submitted: MQK Brackets



### Feature/service:

- Bracket designed to mount to walls, floors, and ceilings.
- Serrated C-section
- Installation assisted by dimension marking
- Increased flexibility due to slot configuration
- Back-to-back brackets are welded all around the base

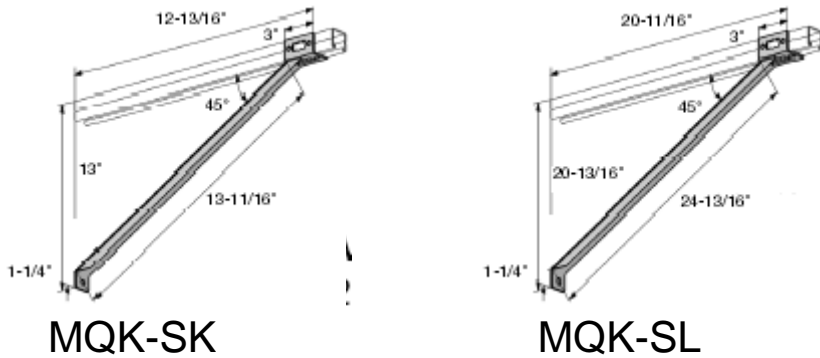
**Size Range:** Please see table below

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering/Technical Information:

Item #	Description	Box Qty	Finish	Strut Length in (mm)	Strut Profile	Strut Section (gauge/mm)
00369607	MQK-21/300	1	PG	11-13/16" (300)	13/16"	14/2
00369608	MQK-21/450	1	PG	17-11/16" (450)	13/16"	14/2
00304114	MQK-21/450-F	1	HDG	17-11/16" (450)	13/16"	14/2
00304115	MQK-41/300-F	1	HDG	11-13/16" (300)	1-5/8"	14/2
00304117	MQK-41/600-F	1	HDG	23-5/8" (600)	1-5/8"	14/2
00370595	MQK-41/3/300	1	PG	11-13/16" (300)	1-5/8"	12/3
00370597	MQK-41/3/600	1	PG	23-5/8" (600)	1-5/8"	12/3
00369616	MQK-72/600	1	PG	23-5/8" (600)	2-7/16"	12/2.75
00369617	MQK-21D/300	1	PG	11-13/16" (300)	13/16" B2B	14/2
00369619	MQK-21D/600	1	PG	23-5/8" (600)	13/16" B2B	14/2
00304007	MQK-41D/600-R	1	SS	23-5/8" (600)	1-5/8" B2B	14/2
00304009	MQK-41D/750-R	1	SS	29-1/2" (750)	1-5/8" B2B	14/2
00304127	MQK-41D/1000-F	1	HDG	39-3/8" (1000)	1-5/8" B2B	14/2

## Product Submitted: MQK Angle Braces



**MQK-SK**

**MQK-SL**

### Feature/service:

#### MQK-SK

- 2-hole angle for Pushbutton and wall mounting

#### MQK-SL

- 2-hole angle for Pushbutton and wall mounting

**Size Range:** Available in sizes listed above

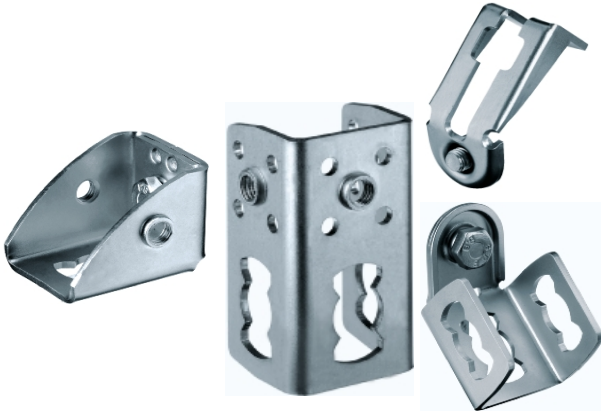
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering Information:

Item #	Description	Finish	Box Qty
00369662	MQK-SK	PG	10
00304129	MQK-SK-F	HDG	10
00369621	MQK-SL	PG	10
00304010	MQK-SL-R	SS	10

## Product Submitted: 3D System



### Feature/service:

- Universal. Few parts for all applications
- For installation of angles or connectors on-site
- Quick and easy to use
- 45° angle and bracing with predetermined bending point

**Size Range:** Available in one size only. For use with all sizes of Hilti strut.

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)

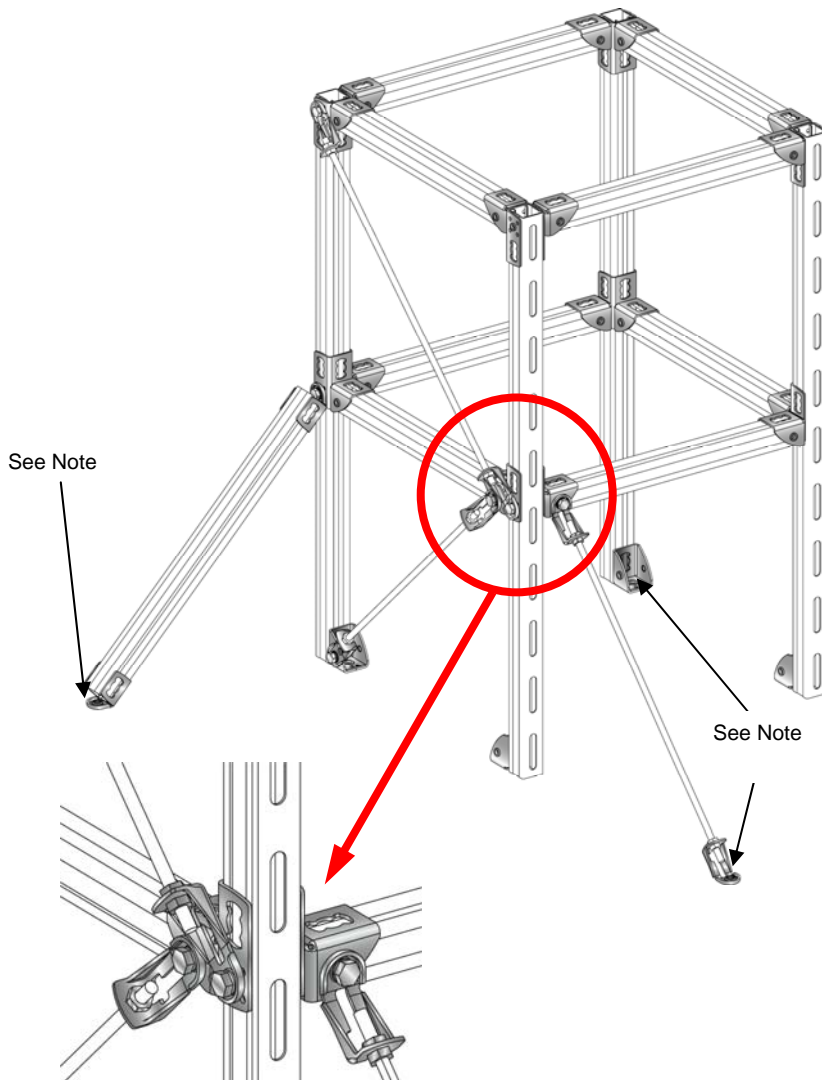
### Ordering/Technical Information:

Item #	Description	Finish	Box Qty
00369694	MQ3D-B	PG	20
00304209	MQ3D-B-F	HDG	20
00369695	MQ3D-W90	PG	20
00304210	MQ3D-W90-F	HDG	20
00369696	MQ3D-W45	PG	16
00304211	MQ3D-W45-F	HDG	16
00369697	MQ3D-A	PG	20

### Loading information for Hilti MQN Pushbutton used to fasten 3D components to Hilti strut

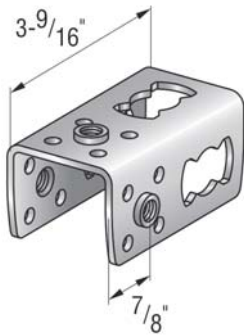
Item #	Description	Finish	Box Qty	Allowable Tension* (lb)	Allowable Shear* (lb)	Rec'd Torque (ft-lb)
00369623	MQN	PG	50	1800	1125	30
00304130	MQN-F	HDG	25	1120	675	30

\*Allowable loads based on a safety factor of 2.2.

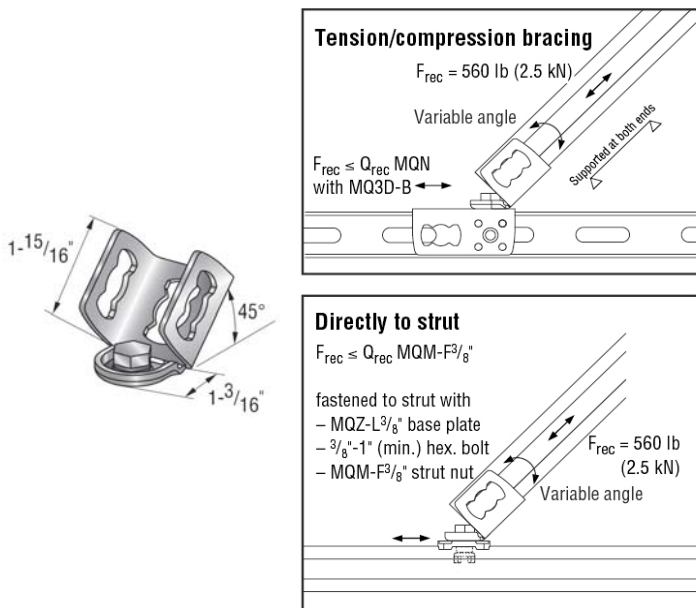
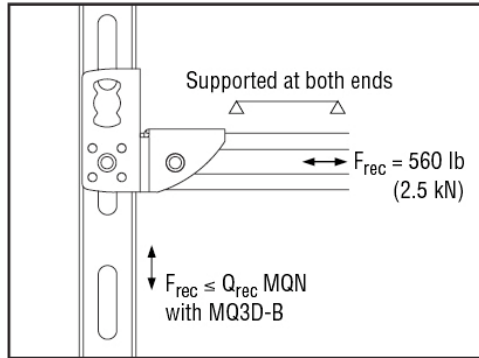
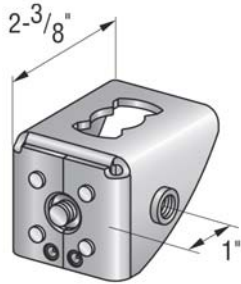


**Note:** The preassembled bolt may be removed and replaced with an anchor or longer 3/8" bolt when mounting to surface other than the 3D Base Connector.

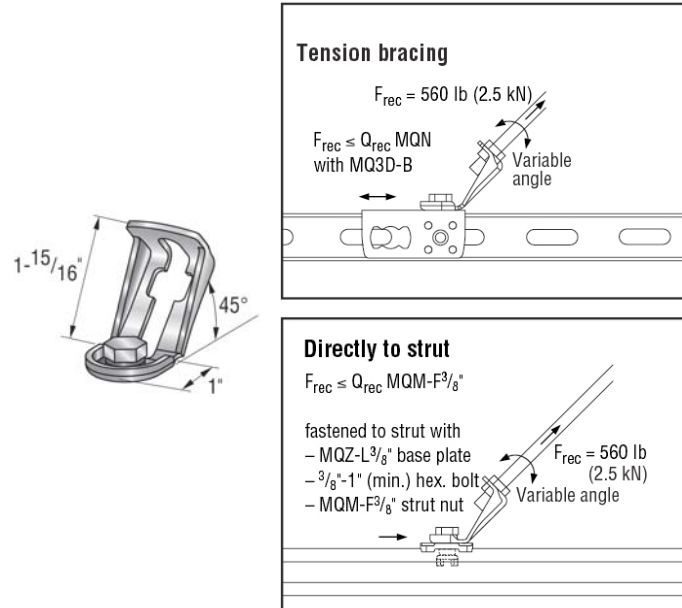
MQ3D-B



MQ3D-W90°



MQ3D-W45°

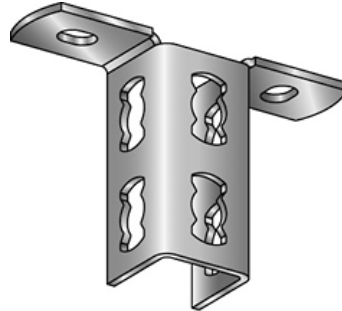


MQ3D-A

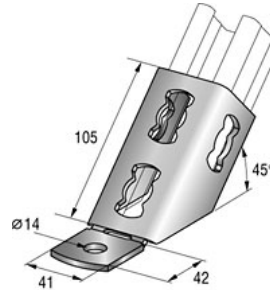
## Product Submitted: MQP Bases



**MQP-1/1**



**MQV-2/2D-14**



**MQP-45°**

### Feature/service:

#### MQP Bases

- Multi-hole base for Pushbutton
- Attachment to wall, ceiling, or floor with Hilti anchors

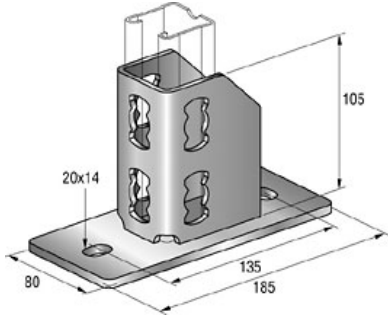
**Size Range:** Available in three sizes shown above

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

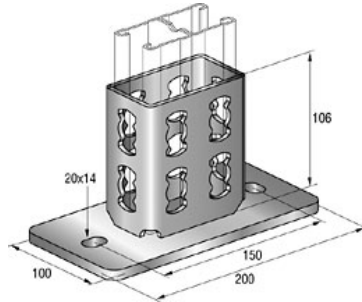
### Ordering/Technical Information:

Item #	Description	Finish	Box Qty
00369646	MQP-1/1	PG	20
00304161	MQP-1/1-F	HDG	20
00369639	MQV-2/2D-14	PG	10
00304151	MQV-2/2D-14-F	HDG	10
00304033	MQV-2/2D-14-R	SS	10
00369649	MQP-45°	PG	10

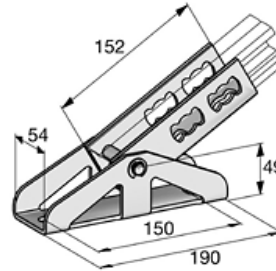
## Product Submitted: MQP Bases



**MQP-21-72**



**MQP-82**



**MQP-G**

### Feature/service:

#### MQP Bases

- Multi-hole base for Pushbutton
- Attachment to wall, ceiling, or floor with Hilti anchors
- Adjustable angle on MQP-G
- 1/4" Base plate thickness on MQP-21-72
- 5/16" Base plate thickness on MQP-82

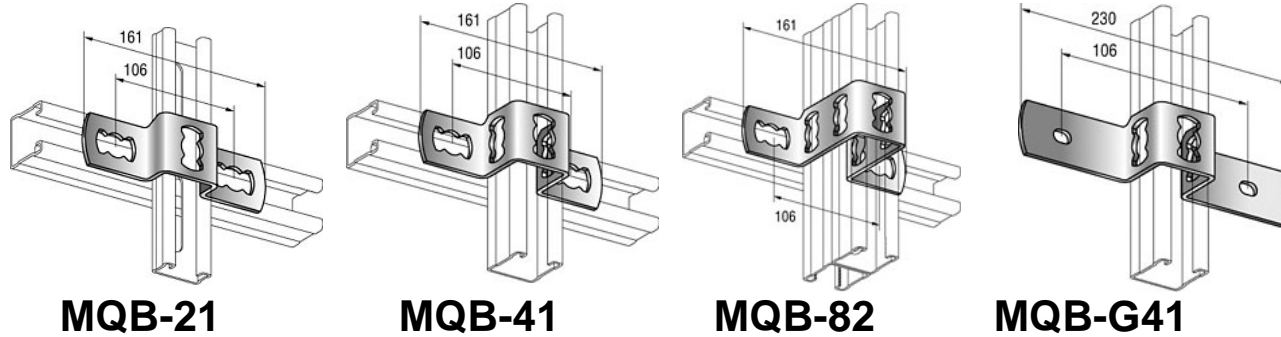
**Size Range:** Available in three sizes shown above

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering/Technical Information:

Item #	Description	Finish	Box Qty
00369651	MQP-21-72	PG	12
00304165	MQP-21-72-F	HDG	12
00304047	MQP-21-72-R	SS	12
00369652	MQP-82	PG	8
00304048	MQP-82-R	SS	8
00369654	MQP-G	PG	10

## Product Submitted: MQB Clamps



**MQB-21**

**MQB-41**

**MQB-82**

**MQB-G41**

### Feature/service:

#### MQB Clamps

- Multi-hole clamp for Pushbutton
- For 13/16", 1-5/8", and 1-5/8" back-to-back Hilti Strut

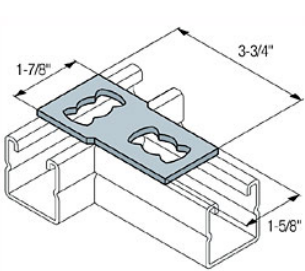
### Size Range: Four Sizes Shown Above

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

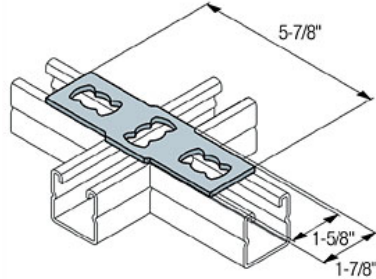
### Ordering/Technical Information:

Item #	Description	Finish	Box Qty
00369666	MQB-21	PG	10
00369668	MQB-41	PG	10
00304061	MQB-41-R	SS	10
00369671	MQB-82	PG	10
00304063	MQV-82-R	SS	10
00369674	MQV-G41	PG	10
00304189	MQV-G41-F	HDG	10

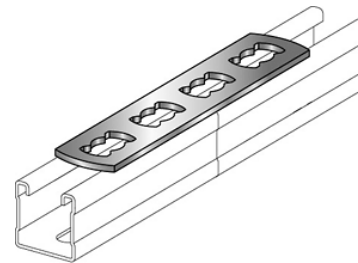
## Product Submitted: MQV Splice Plates



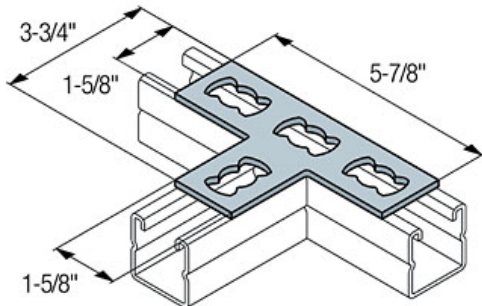
**MQV-P2**



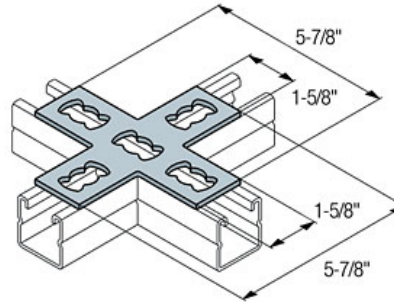
**MQV-P3**



**MQV-P4**



**MQV-T**



**MQV-P5**

### Feature/service:

- Splice plate for Pushbutton

**Size Range:** Five Sizes Shown Above

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)

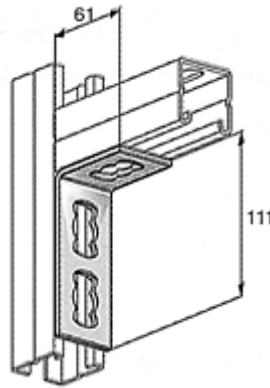
### Ordering/Technical Information:

Item #	Description	Finish	Box Qty
00370630	MQV-P2	PG	10
00370629	MQV-P3	PG	10
00369644	MQV-P4	PG	10
00304156	MQV-P4-F	HDG	10
00369645	MQV-T	PG	10
00304157	MQV-T-F	HDG	10
00370631	MQV-P5	PG	10

## Product Submitted: MQW-2, MQW-3 Angles



**MQW-2**



**MQW-3**

### Feature/service:

#### MQW-2

- 2-hole 90° angle for Pushbutton

#### MQW-3

- 3-hole 90° angle for Pushbutton

**Size Range:** Available in two sizes listed above

**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering Information:

Item #	Description	Finish	Box Qty
00304171	MQW-2-F	HDG	20
00304051	MQW-2-R	SS	10
00369656	MQW-3	PG	20
00304172	MQW-3-F	HDG	20
00304052	MQW-3-R	SS	10

**Product Submitted:** MQW-Q2, Preassembled 90° Angle



**Feature/service:**

- Single item 90° connection
- Fits all Hilti strut
- Utilizes Pushbutton technology
- Reduces inventory costs
- No parts to lose

**Size Range:** Available in one size only. For use with all sizes of Hilti strut.

**Material Thickness:** 1/8"

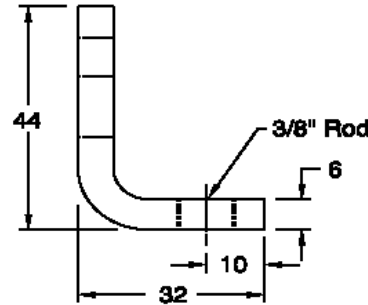
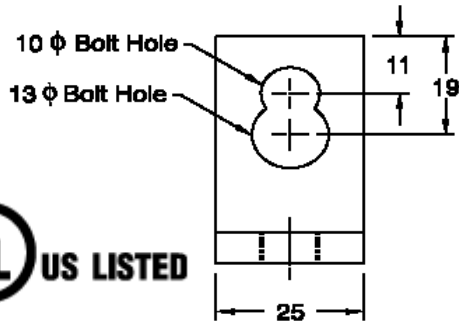
**Material:** Electro-Galvanized Carbon Steel (PG)

**Ordering/Technical Information:**

Item #	Description	Weight/Piece (lb)	Box Qty	Allowable Shear* (lb)	Rec'd Torque (ft-lb)
00369655	MQW-Q2 90° Angle	0.441	20	900	30

\*Allowable load based on a safety factor of 2.2 when supported at both ends.

**Product Submitted:** Tapped Side Beam Connector



**Feature/service:** Recommended for use on sides of steel or wooden beams.

**Material:** Carbon Steel

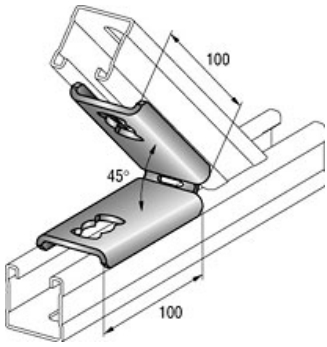
**Finish:** Zinc Plated

**Listings:** Underwriters Laboratories - UL, cUL

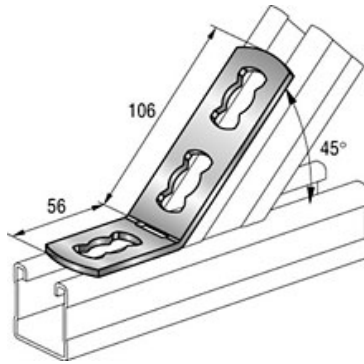
**Ordering/Technical Information:**

Item #	Description	Box Qty	Wt. per piece	Bolt Size	Max Pipe Size
3024320	Tapped Side Beam 3/8"	100	.17	3/8"	2"
3024320	Tapped Side Beam 3/8"	100	.17	1/2"	4"

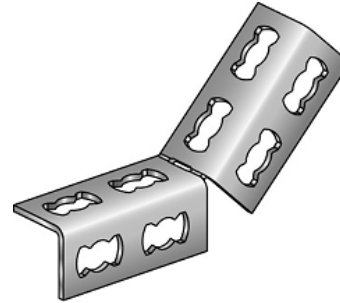
## Product Submitted: MQW-2/45, MQW-3/45, and MQW-8/45 Angles



**MQW-2/45**



**MQW-3/45**



**MQW-8/45**

### Feature/service:

#### MQW-2/45

- 2-hole 45° angle for Pushbutton

#### MQW-3/45

- 3-hole 45° angle for Pushbutton

#### MQW-8/45

- 8-hole 45° angle for Pushbutton

**Size Range:** Available in three sizes listed above

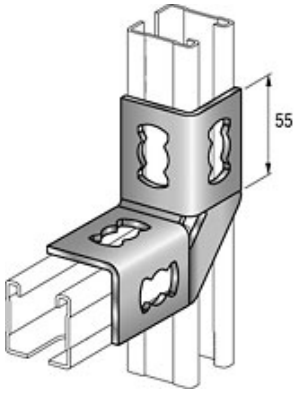
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

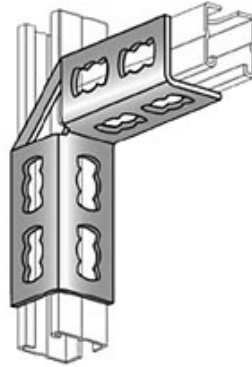
### Ordering Information:

Item #	Description	Finish	Box Qty
00369662	MQW-2/45	PG	10
00369657	MQW-3/45	PG	20
00304053	MQW-3/45-R	SS	10
00369660	MQW-8/45	PG	10
00304176	MQW-8/45-F	HDG	10

## Product Submitted: MQW 4 & MQW 8 90° Angles



**MQW-4 90° Angle**



**MQW-8 90° Angle**

### Feature/service:

#### MQW-4 Angle

- 4-hole 90° angle for Pushbutton
- Replaces left and right hole single corner connector

#### MQW-8 Angle

- 8-hole 90° angle for Pushbutton
- Replace left and right hole single corner connector

**Size Range:** Available in sizes listed above

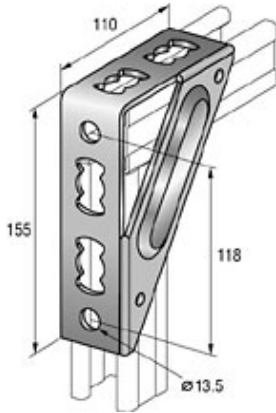
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A-153 (HDG)  
SS 316 Ti (SS)

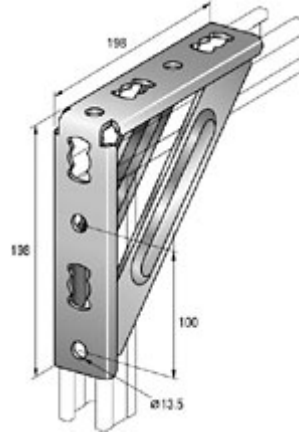
### Ordering Information:

Item #	Description	Finish	Box Qty
00369658	MQW-4	PG	10
00369659	MQW-8/90	PG	10
00304175	MQW-8/90-F	HDG	10
00304055	MQW-8/90-R	SS	10

## Product Submitted: MQW-S/1 & MQW-S/2 Angle Brackets



MQW-S/1



MQW-S/2

### Feature/service:

#### MQW-S/1

- 4-hole angle for Pushbutton
- For heavy wall ceiling attachment to strut or base material

#### MQW-S/2

- 4-hole angle for Pushbutton
- For heavy wall ceiling attachment to strut or base material

**Size Range:** Available in sizes listed above

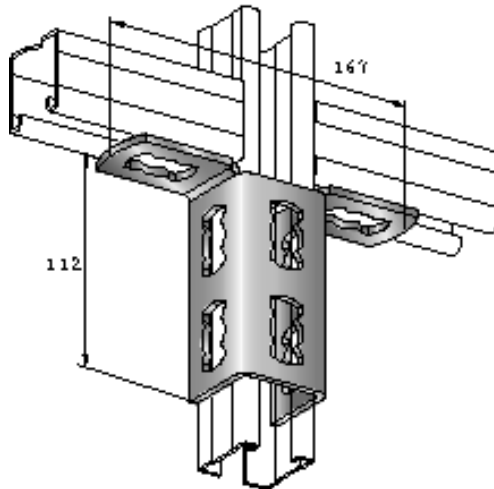
### Material Thickness:

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering Information:

Item #	Description	Finish	Box Qty
00369664	MQW-S/1	PG	10
00369665	MQW-S/2	PG	10
00304181	MQW-S/2-F	HDG	10
00304059	MQW-S/2-R	SS	1

## Product Submitted: MQV-2/2D Connector



**MQV-2/2D**

**Feature/service:** Two-dimensional double connector for Pushbuttons

**Size Range:** Available in one size shown above

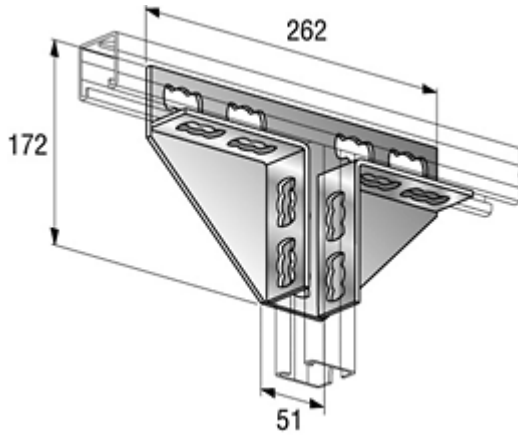
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering Information:

Item #	Description	Finish	Box Qty
00369638	MQV-2/2D	PG	10
00304150	MQV-2/2D-F	HDG	10
00304032	MQV-2/2D-R	SS	10

### Product Submitted: MQV-3/2D X Connector



#### Feature/service:

- Two-dimensional heavy-duty double connector for Pushbuttons

**Size Range:** Available in one size

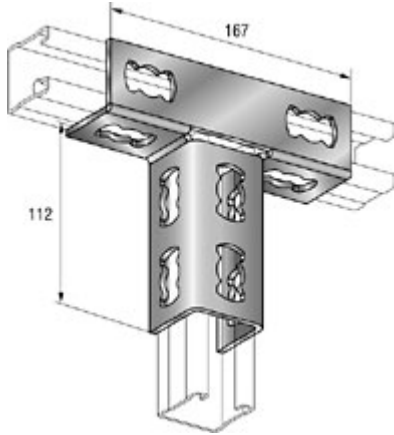
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)

#### Ordering Information:

Item #	Description	Finish	Box Qty
00339590	MQV-3/2D X	PG	10

### Product Submitted: MQV-3/2D Connector



#### Feature/service:

- Two-dimensional double connector for Pushbuttons

**Size Range:** Available in one size

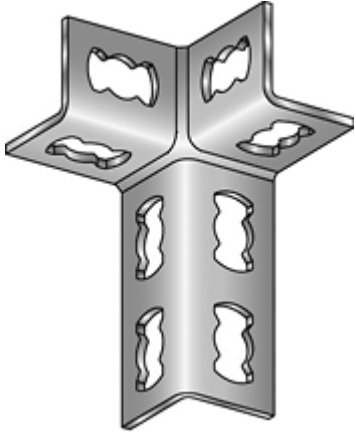
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)

#### Ordering Information:

Item #	Description	Finish	Box Qty
00369640	MQV-3/2D	PG	10
00304152	MQV-3/2D-F	HDG	10

### Product Submitted: MQV-3/3D Connector



#### Feature/service:

- Three-dimensional double connector for Pushbuttons

**Size Range:** Available in one size

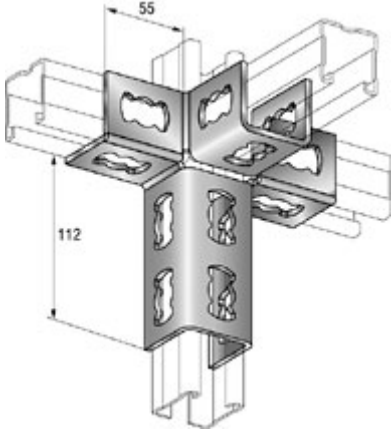
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)

#### Ordering Information:

Item #	Description	Finish	Box Qty
00369641	MQV-3/3D	PG	10

### Product Submitted: MQV-4/3D Connector



#### Feature/service:

- Three-dimensional double connector for Pushbuttons

**Size Range:** Available in one size

**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)

#### Ordering Information:

Item #	Description	Finish	Box Qty
00369643	MQV-4/3D	PG	10

### Product Submitted: MQV-12 Connector



#### Feature/service:

- Connector for splicing HS-158 and HS-2716 strut using the Pushbutton

**Size Range:** Available in one size

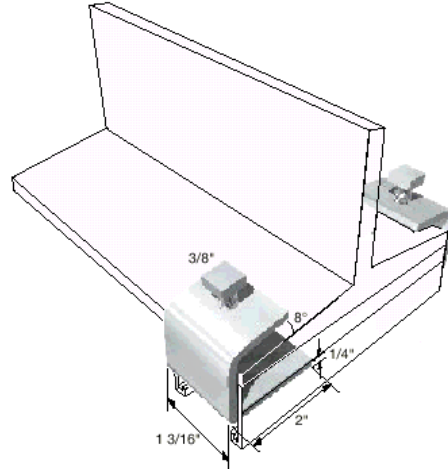
**Material Thickness:** 3/16" (4mm)

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

#### Ordering Information:

Item #	Description	Finish	Box Qty
00369643	MQV-12	PG	10
00304155	MQV-12-F	HDG	10
00304037	MQV-12-R	SS	10

## Product Submitted: Strut Beam Clamp



SBC & MQT

BC-A & MQT-C22

**Feature/service:** Beam clamp for fastening strut to steel beams.

### Size Range:

- SBC 1-5/8" & MQT-21-41 – For use with 13/16" to 1-5/8" Hilti strut
- SBC 2-7/16" - 3-1/4" & MQT-41/52-82 – For use with 2-7/16" to 3-1/4" Hilti strut
- BC-A & MQT-C22 – For use with all Hilti strut

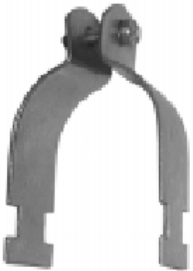
**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering/Technical Information:

Item #	Description	Finish	Box Qty	Max. Allowable Load*
00258316	SBC 1-5/8"	PG	25	1100 lbs
00304190	MQT-21-41-F	HDG	10	675 lbs
00304067	MQT-21-41-R	SS	10	675 lbs
00314330	SBC 2 7/16"-3 1/4"	PG	25	1100 lbs
00304191	MQT-41-82-F	HDG	10	1000 lbs
00304068	MQT-52-82-R	SS	10	1000 lbs
00306570	BC-A	PG	25	1100 lbs
00304194	MQT-C22-F	HDG	10	550 lbs

\* When used in pairs, channel loading values must be accounted for.

**Product Submitted:** Strut Clamp: Copper Plated and EG



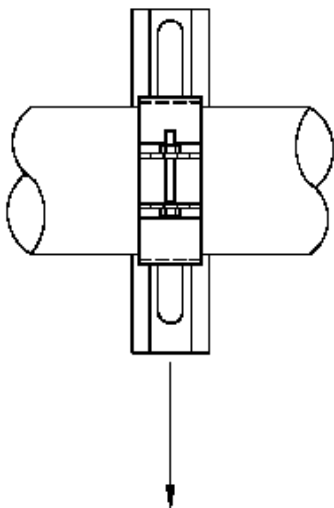
**Feature/service:** Copper plated strut clamps for copper tubing.  
Strut clamps for rigid or EMT pipes on strut.

**Size Range:** 1/4"-4" pipe sizes (other sizes available by special order)

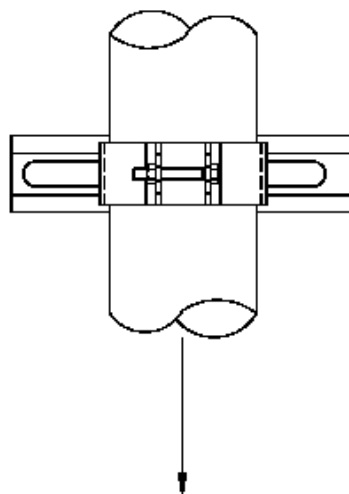
**Material:** Carbon Steel

**Finish:** Copper Plated or Electro-Galvanized

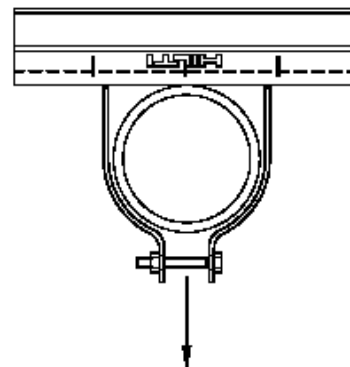
**Loading:** Allowable loads based on a safety factor of 3.5  
Please see loading diagrams below for applicable load case.



**Ultimate  
Static Shear  
Load Limit**



**Ultimate  
Static Slip  
Load Limit**



**Allowable  
Load**

## Ordering/Technical Information:

### Strut Clamp - Copper-Plated for Copper Tubing

Item No.	Description	Box Qty	Allowable Load (lbs.)	Ultimate Static Shear Load Limit (lbs.)	Ultimate Static Slip Load Limit (lbs.)
371544	Strut Clamp Copper 1/4"	100	400	75	50
371545	Strut Clamp Copper 3/8"	100	400	70	50
371546	Strut Clamp Copper 1/2"	100	400	20	50
371547	Strut Clamp Copper 3/4"	100	400	75	50
371548	Strut Clamp Copper 1"	100	400	32	16
371549	Strut Clamp Copper 1-1/4"	100	600	75	50
371550	Strut Clamp Copper 1-1/2"	100	600	75	50
371551	Strut Clamp Copper 2"	50	800	75	50
371552	Strut Clamp Copper 2-1/2"	50	800	75	50
371553	Strut Clamp Copper 3"	25	800	75	50
371554	Strut Clamp Copper 4"	25	900	75	50

### Strut Clamp - Rigid for Rigid Pipes on Strut

Item No.	Description	Box Qty	Allowable Load (lbs.)	Ultimate Static Shear Load Limit (lbs.)	Ultimate Static Slip Load Limit (lbs.)
371557	Strut Clamp Rigid 1/2"	100	400	75	50
371558	Strut Clamp Rigid 3/4"	100	400	75	50
371559	Strut Clamp Rigid 1"	100	600	75	50
371560	Strut Clamp Rigid 1-1/4"	50	600	75	50
371561	Strut Clamp Rigid 1-1/2"	50	600	75	50
371562	Strut Clamp Rigid 2"	50	600	75	50
371563	Strut Clamp Rigid 2-1/2"	25	800	75	50
371564	Strut Clamp Rigid 3"	25	800	75	50
371565	Strut Clamp Rigid 4"	25	1000	75	50

### Strut Clamp - EMT for EMT Pipe

Item No.	Description	Box Qty	Allowable Load (lbs.)	Ultimate Static Shear Load Limit (lbs.)	Ultimate Static Slip Load Limit (lbs.)
371568	Strut Clamp - EMT 1/2"	100	200	75	50
371569	Strut Clamp - EMT 3/4"	100	200	75	50
371570	Strut Clamp - EMT 1"	100	200	75	50
371571	Strut Clamp - EMT 1-1/4"	50	200	75	50
371572	Strut Clamp - EMT 1-1/2"	50	200	75	50
371573	Strut Clamp - EMT 2"	50	200	75	50

### Strut Clamp - Universal for EMT or Rigid Pipes

Item No.	Description	Box Qty	Allowable Load (lbs.)	Ultimate Static Shear Load Limit (lbs.)	Ultimate Static Slip Load Limit (lbs.)
371574	Strut Clamp - UNIV 1/2"	100	200	40	50
371575	Strut Clamp - UNIV 3/4"	100	200	75	50
371576	Strut Clamp - UNIV 1"	50	200	75	50
371577	Strut Clamp - UNIV 1-1/4"	50	200	75	50
371578	Strut Clamp - UNIV 1-1/2"	50	200	75	50
371579	Strut Clamp - UNIV 2"	50	200	75	50

## Product Submitted: MQN Pushbutton



**MQN-F/R**



**MQN**

### Feature/service:

- For use with Hilti MQW angles, MQB clamps, MQV connectors and MQP base plates

**Size Range:** Available in one size only. For use with all sizes of Hilti strut.

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering/Technical Information:

Item #	Description	Finish	Box Qty	Allowable Tension (lb)	Allowable Shear Single Fastening (lb)	Allowable Shear Double fastening (lb)	Rec'd Torque (ft-lb)
00369623	MQN	PG	50	1800	1125	2025	30
00304130	MQN-F	HDG	25	1800	400	670	30
00304012	MQN-R	SS	25	1800	1125	2025	30

Allowable loads are a result of testing using 12-gauge Hilti strut and based on a safety factor of 2.2.

### Product Submitted: MQA-F Saddle Nut



#### Feature/service:

- Alternative to spring nut and flat washer
- Complete offering for trapeze construction
- Single part for simple, timesaving installation

**Size Range:** Available in 1/4", 3/8", 1/2", and 5/8" sizes. For use with all sizes of Hilti strut.

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)

#### Ordering/Technical Information:

Item #	Description	Connection Thread	Finish	Box Qty	Allowable Tension (lb)*	Rec'd Torque (ft-lb)
00377884	MQA-F 1/4"	1/4"	PG	50	600	7
00377885	MQA-F 3/8"	3/8"	PG	50	1500	15
00304143	MQA-F 3/8"-F	3/8"	HDG	25	1125	15
00377886	MQA-F 1/2"	1/2"	PG	50	1800	30
00304144	MQA-F 1/2"-F	1/2"	HDG	25	1800	30
00377887	MQA-F 5/8"	5/8"	PG	50	2100	30
00304145	MQA-F 5/8"-F	5/8"	HDG	25	1800	30

\*Allowable loads based on a safety factor of 2.2.

## Product Submitted: MQM-F Strut Nut



### Feature/service:

- Alternative to spring nut
- Functions in all Hilti strut profiles
- Single part eliminates stocking of spring nuts for each depth of strut

**Size Range:** Available in 1/4", 3/8" and 1/2" sizes. For use with all sizes of Hilti strut.

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering/Technical Information:

Item #	Description	Finish	Box Qty	Allowable Tension (lb)*	Allowable Shear (lb)*	Rec'd Torque (ft-lb)
00304014	MQM-M6-R	SS	25	600	325	7
00377881	MQM-F-1/4"	PG	50	600	450	7
00304015	MQM-M8-R	SS	25	1125	775	15
00377882	MQM-F-3/8"	PG	50	1500	1000	15
00304136	MQM-F-3/8"-F	HDG	25	1500	675	15
00304019	MQM-F-3/8"-R	SS	25	1500	1000	15
00304016	MQM-M10-R	SS	25	1800	1125	30
00377883	MQM-F-1/2"	PG	50	1800	1125	30
00304137	MQM-F-1/2"-F	HDG	25	1800	675	30
00304020	MQM-F-1/2"-R	SS	25	1800	1125	30

\*Allowable loads are a result of testing using 12-gauge Hilti HS/MS strut and based on a safety factor of 2.2.

**Product Submitted:** Channel Nut



**Feature/service:**

- Channel nut for all sizes of channel

**Size Range:** Available in 3/8", 1/2", 5/8" and 3/4" sizes. For use with all sizes of Hilti strut.

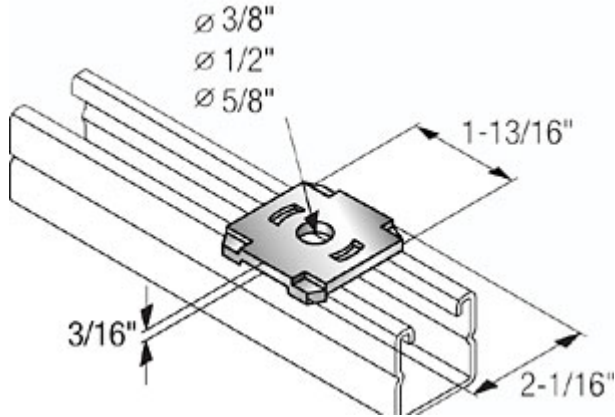
**Material:** Carbon Steel

**Finish:** Zinc Plated

**Ordering/Technical Information:**

Item #	Description	Box Qty
00311937	3/8" Channel Nut	100
00311938	1/2" Channel Nut	100
00311939	5/8" Channel Nut	100
00311940	3/4" Channel Nut	100

## Product Submitted: MQZ Base Plates



### Feature/service:

- For wall/ceiling/floor attachment of angles, connectors or brackets with Hilti anchors
- For strut nut or spring nut applications with angles, connectors, and brackets
- Used as heavy plate washer for strut

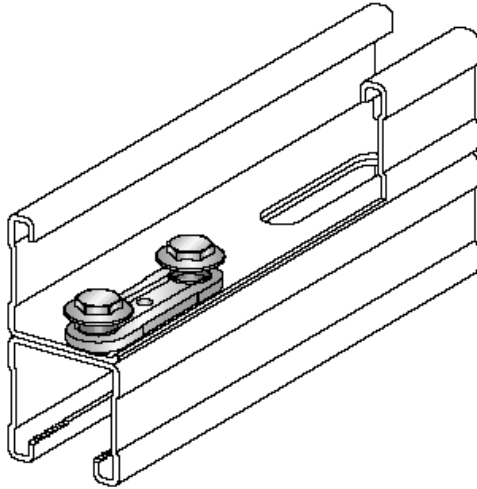
**Size Range:** Available in sizes listed below

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)  
SS 316 Ti (SS)

### Ordering/Technical Information:

Item #	Description	Finish	Box Qty
00370632	MQZ-L-3/8"	PG	20
00304200	MQZ-F-3/8"-F	HDG	20
00304076	MQZ-F-3/8"-R	SS	20
00370633	MQZ-L-1/2"	PG	20
00304201	MQZ-F-1/2"-F	HDG	20
00304077	MQZ-F-1/2"-R	SS	20
00370634	MQZ-L-5/8"	PG	20
00304202	MQZ-F-5/8"-F	HDG	20

## Product Submitted: MQZ-SS Strut Tie



### Feature/service:

#### MQZ-SS Strut Tie

- Fast joining of strut
- Different depth strut joining possible
- Forms a removable joint

#### MQZ-SVS Strut Tie Wrench

- For use with MQZ-SS strut tie
- Magnetic Holder with 13mm end

**Size Range:** Available in one size only. For use with all sizes of Hilti strut.

**Material:** Electro Galvanized Carbon Steel (PG)  
Hot-Dip Galvanized Carbon Steel according to ASTM A153 (HDG)

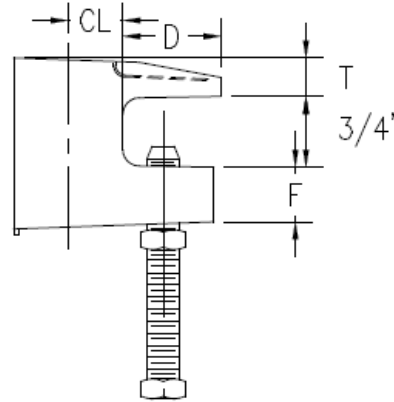
### Ordering/Technical Information:

Item #	Description	Finish	Box Qty	Allowable Tension lb (kN)*	Allowable Shear lb (kN)*	Tightening Torque ft-lb (Nm)
00369691	MQZ-SS**	PG	40	675 (3.0)	1125 (5.0)	15 (20)
00304207	MQZ-SS-F**	HDG	40	675 (3.0)	1125 (5.0)	15 (20)
00369693	MQZ-SVS (tool)	N/A	1	NA	NA	NA

\*Allowable loads are a result of testing using 12-gauge Hilti HS/MS strut and based on a safety factor of 2.2.

\*\*MKN-SVS tool or 13mm wrench required to set.

**Product Submitted:** BC Beam Clamp



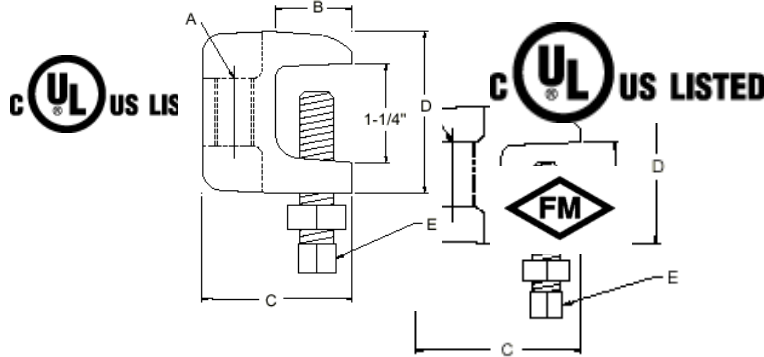
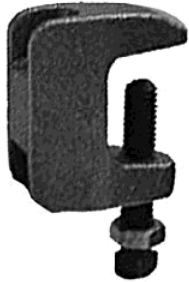
- Feature/service:** Structural attachment (with infinite adjustment) to top or bottom of metal beams, purlins, channel or angle iron to support hanger rod.
- Size Range:** 1/4" through 3/4" rod sizes
- Material:** Malleable iron casting with a hardened cup point set screw and locknut
- Finish:** Plain or EG (Electro-Galvanized)
- Approvals:** Factory Mutual - FM (3/8" thru 3/4" only)
- Listings:** Underwriter Laboratories - UL, cUL (3/8" thru 1/2" only)
- Conforms with:** Federal specification WW-H-171 (Type 19) and Manufacturers Standardization Society MSS-SP-58 (Type 19)
- Installation:** Install in accordance with ANSI/MSS-SP-69

**Ordering/Technical Information:**

Item #	Description	Box Qty	Set-screw torque (ft-lb)	Rod Size	Max Pipe Size	Dim "CL"	Dim "D"	Dim "F"	Dim "T"	Max allow load (lb)*	
										Top	Bottom
00257366	BC 3/8"	100	5 (60 in-lb)	3/8"	4"	7/16"	1-1/8"	3/8"	3/8"	500	250
00257367	BC 1/2"	50	5 (60 in-lb)	1/2"	8"	9/16"	1-1/16"	1/2"	1/2"	950	760
00257368	BC 5/8"	50	5 (60 in-lb)	5/8"	8"	9/16"	1-1/16"	1/2"	1/2"	950	760
00257369	BC 3/4"	50	5 (60 in-lb)	3/4"	8"	9/16"	1-1/8"	5/8"	3/8"	950	760
00258002	BC-EG 1/4"	100	-	1/4"	-	-	-	-	-	250	100
00306600	BC-EG 3/8"	100	5 (60 in-lb)	3/8"	4"	7/16"	1-1/8"	3/8"	3/8"	500	250
00306601	BC-EG 1/2"	50	5 (60 in-lb)	1/2"	8"	9/16"	1-1/16"	1/2"	1/2"	950	760

\* Based on a safety factor of 3.

**Product Submitted:** BC-WM Wide Mouth Beam Clamp



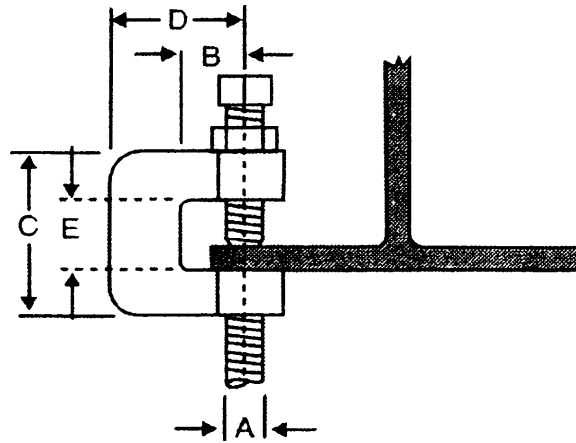
- Feature/service:** Structural attachment (with infinite adjustment) to top or bottom of roll formed, large-lipped metal beams, purlins, channel or angle iron which require a 1 1/4" maximum jaw opening.
- Size Range:** 3/8" and 1/2" rod sizes
- Material:** Malleable iron casting with a hardened cup point set screw and locknut
- Finish:** Electro-Galvanized
- Approvals:** Factory Mutual - FM
- Listings:** Underwriter Laboratories - UL, cUL
- Conforms with:** Federal specification WW-H-171 (Type 19) and Manufacturers Standardization Society MSS-SP-58 (Type 19)
- Installation:** Install in accordance with ANSI/MSS-SP-69

**Ordering/Technical Information:**

Item #	Description	Box Qty	Set-screw torque (ft-lb)	Rod Size "E"	Max Pipe Size	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Max allow load (lb)*	
										Top	Bottom
00306602	BC-WM 3/8"	50	5 (60 in-lb)	-	4"	3/8"	-	-	-	500	250
00306603	BC-WM 1/2"	50	10 (120 in-lb)	-	8"	1/2"	-	-	-	950	760

\* Based on a safety factor of 3.

**Product Submitted:** Steel C-clamp with lock nut

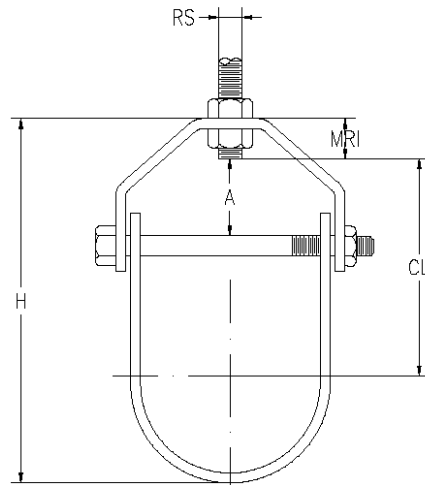


- Feature/service:** Designed for structural attachment of hanger rod to bottom flange of a metal beam, purlins, channel or angle iron. The hanger rod should make contact with the beam flange to ensure full engagement.
- Size Range:** 3/8" through 5/8" rod sizes
- Material:** Carbon steel with hardened steel cup point set screw and lock nut.
- Approvals:** UL Listing and FM Approved for NFPA 13, maximum rated pipe size. Complies with Federal Specification WW-H171E (Type 23) and MSS-SP-69 (Type 23)
- Installation:** Install in accordance with ANSI/MSS-SP-69. Follow maximum recommended set screw torque values per MSS-SP-69.
- Other:** Maximum pipe size: 4"

**Ordering/Technical Information:**

Item #	Description	Box Qty	A	B	C	D	E	Max Allow. Load (lb)
00306571	C-CLAMP W/LOCK NUT 3/8"	100	3/8"	3/8"	2-3/8"	2-5/16"	13/16"	400
00306572	C-CLAMP W/LOCK NUT 1/2"	50	1/2"	1/2"	2-3/8"	2-5/16"	13/16"	500
00306573	C-CLAMP W/LOCK NUT 5/8"	50	5/8"	5/8"	2-3/8"	2-1/4"	13/16"	550

**Product Submitted:** SDC Standard Duty Clevis Hanger

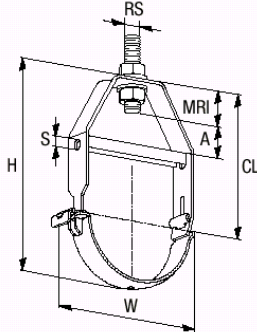


- Feature/service:** Use for the support of stationary, non-insulated pipe lines
- Size Range:** 1/2" to 12" pipe sizes
- Material:** Carbon Steel
- Finish:** Electro-Galvanized
- Approvals:** Factory Mutual - FM (2-1/2" to 8" only)
- Listings:** Underwriters Laboratories - UL, cUL (2-1/2" to 8" only)
- Conforms with:** Federal specification WW-H-171 (Type 1) and Manufacturers Standardization Society MSS-SP-58 (Type 1)
- Installation:** Install in accordance with ANSI/MSS-SP-69

**Ordering/Technical Information:**

Item #	Description	Box Qty	Pipe size	RS (Rod Size)	H	CL	MRI	A	Max allow load (lb)
00333236	SDC-EG 3/4"	50	3/4"	3/8"	3-3/16"	1-15/16"	9/16"	13/16"	610
00333237	SDC-EG 1"	50	1"	3/8"	3-15/16"	2-9/16"	9/16"	1-1/16"	610
00333239	SDC-EG 1-1/2"	25	1 1/2"	3/8"	4-1/2"	2-11/16"	9/16"	1-7/16"	610
00306590	SDC-EG 2"	25	2"	3/8"	5-1/16"	3-1/8"	9/16"	1-7/16"	610
00333240	SCD-EG 2-1/2"	25	2 1/2"	1/2"	5-9/16"	3-1/8"	3/4"	1	1130
00306591	SDC-EG 3"	25	3"	1/2"	6-3/16"	3-7/16"	3/4"	1	1130
00306592	SDC-EG 4"	25	4"	5/8"	8-1/16"	4-5/8"	15/16"	1-13/16"	1430
00306593	SDC-EG 5"	25	5"	5/8"	9-3/8"	5-5/16"	15/16"	1-13/16"	1430
00306594	SDC-EG 6"	10	6"	3/4"	10	5-5/16"	1-1/16"	1-3/4"	1940
00306595	SDC-EG 8"	10	8"	7/8"	13-1/8"	7-3/16"	1-3/16"	2	2000
00333242	SDC-EG 10"	1	10"	7/8"	15-3/4"	8-5/8"	1-5/16"	2-1/8"	3600
00333243	SDC-EG 12"	1	12"	7/8"	18-7/8"	10-15/16"	1-5/16"	2-1/2"	3800

## Product Submitted: SLC Speed Lock Clevis



### Feature/service:

- Unique speed lock system eliminates hanger disassembly
- One piece to save installation time and prevent lost or dropped nuts
- Simple one-person installation saves labor expenses

**Size Range:** 2" to 8" pipe sizes

**Material:** Carbon Steel

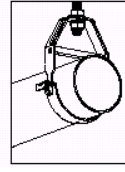
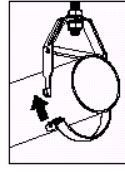
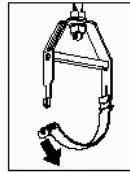
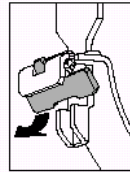
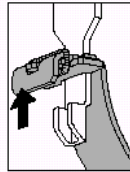
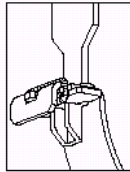
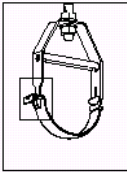
**Finish:** Electro-Galvanized

**Approvals:** Factory Mutual – FM (2" to 8")

**Listings:** Underwriters Laboratories – UL, cUL (2" to 8")

**Conforms with:** Federal specifications WW-H-171E (Type 1) and Manufacturers Standardization Society MSS-SP-58 (Type 1)

**Installation:** Install in accordance with MSS-SP-69



Open Hanger

Close Hanger

### Ordering/Technical Information:

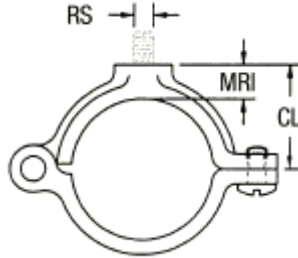
Item #	Description	Qty	Weight per piece (lb)	Pipe size	H	W	CL	RS Rod size	MRI Min. rod insertion	A	S	Max. allow load (lb)*
00334700 00337250	SLC-EG 2"	1 50	0.32	2"	5"	3 9/16"	3 5/8"	3/8"	9/16"	1 1/8"	5/16"	610
00334701 00337251	SLC-EG 3"	1 50	0.69	3"	6 7/8"	5 1/16"	4 13/16"	1/2"	3/4"	1 5/16"	7/16"	1130
00334702 00337252	SLC-EG 4"	1 20	1.06	4"	8 1/2"	6 1/8"	5 7/8"	5/8"	15/16"	1 5/8"	7/16"	1430
00334703 00337253	SLC-EG 5"	1 20	1.33	5"	9 3/4"	7 5/16"	6 9/16"	5/8"	15/16"	1 3/4"	9/16"	1430
00334704 00337254	SLC-EG 6"	1 10	2.8	6"	11 1/4"	8 15/16"	7 7/16"	3/4"	1 1/16"	1 13/16"	11/16"	1940
00334705 00337255	SLC-EG 8"	1 10	3.75	8"	13 13/16"	11 3/16"	8 15/16"	3/4"	1 3/16"	2 3/16"	11/16"	2000

\*Maximum allowable loads based on the lower of:

1. Maximum safe load of the threaded hanger rod at rod temperature of 650°F per MSS-SP 58.
2. Allowable load for SLC-EG hanger with a safety factor of 3.
3. Industry standard for clevis hangers.

**Hilti. Outperform. Outlast.**

## Product Submitted: Split Ring Hangers



**Feature/service:** For suspending non-insulated stationary pipelines. Allows for piping runs close to ceilings or walls.

**Size Range:** 3/8" to 4" pipe sizes

**Material:** Malleable iron body, carbon steel rivet and bolt, also available in copper plated

**Conforms with:** Federal specification WW-H-171 (Type 25) and Manufacturers Standardization Society MSS-SP-58 (Type 12)

**Installation:** Install in accordance with ANSI/MSS-SP-69

**Ordering/Technical Information:** Other sizes available by special order

Item #	Description	Box Qty	Weight/ Piece (lb)	Pipe Size	Rod Size	CL	Min Rod Insertion	Max allow load (lb)*
00306630	SR-EG 1/2"	100	0.18	1/2"	3/8"	7/8"	3/8"	180
00306631	SR-EG 3/4"	100	0.22	3/4"	3/8"	1"	3/8"	180
00306632	SR-EG 1"	100	0.23	1"	3/8"	1 1/32"	3/8"	180
00306633	SR-EG 1 1/2"	50	0.34	1 1/2"	3/8"	1 7/16"	3/8"	180
00306634	SR-EG 2"	50	0.37	2"	3/8"	1 5/8"	3/8"	180
00306623	Copper SR 1/2"	100	0.18	1/2"	3/8"	7/8"	3/8"	180
00306624	Copper SR 3/4"	100	0.22	3/4"	3/8"	1"	3/8"	180
00306625	Copper SR 1"	100	0.23	1"	3/8"	1 1/32"	3/8"	180
00306626	Copper SR 1 1/4"	100	0.25	1 1/4"	3/8"	1 1/32"	3/8"	180
00306627	Copper SR 1 1/2"	100	0.34	1 1/2"	3/8"	1 7/16"	3/8"	180
00306628	Copper SR 2"	50	0.37	2"	3/8"	1 5/8"	3/8"	180

\*Based on a safety factor of 3.

## Product Submitted: Riser Clamps



### Feature/service:

- For supporting vertical steel pipe risers, utilizing the structure to support the legs on each end of the clamp. Normally rests on the floor through which the riser passes. Use welded lugs on pipe above clamp for greater loads.

**Size Range:** Available in sizes listed below.

**Material:** Electro-galvanized Carbon Steel (EG)  
Stainless steel and copper plated available by special order

**Conforms with:** Federal specification WW-H-171 (Type 8); Manufacturers Standardization Society MSS-SP-58 (Type 8); Install in accordance with ANSI/MSS-SP-69.

### Ordering/Technical Information:

Item #	Description	Finish	Pipe Size	Length	Max Allowable Load (lbs)*	Box Qty
00336347	RC-EG 1"	EG	1"	8-15/16"	255	25
00336348	RC-EG 1-1/4"	EG	1-1/4"	9-7/16"	255	25
00336349	RC-EG 1-1/2"	EG	1-1/2"	9-7/8"	255	25
00336350	RC-EG 2"	EG	2"	10-1/4"	300	20
00336351	RC-EG 2-1/2"	EG	2-1/2"	11"	400	20
00336352	RC-EG 3"	EG	3"	11-3/4"	500	1
00336354	RC-EG 4"	EG	4"	13"	750	1
00336356	RC-EG 6"	EG	6"	16"	1400	1
00333279	RC-EG 8"	EG	8"	18-1/4"	2200	1

\*Based on a safety factor of 3

## Product Submitted: Insulation Shields



### Feature/service:

- Shield for use with standard-duty clevis hangers.

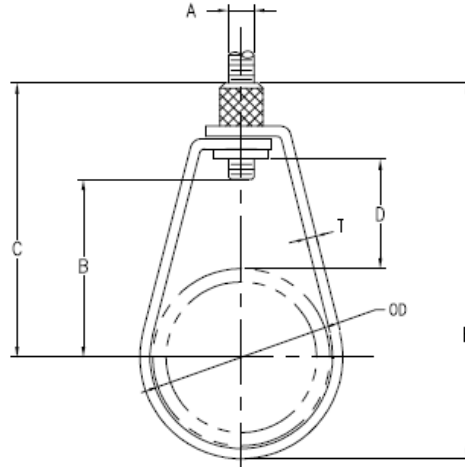
**Size Range:** Available in sizes listed below, other sizes available through special order.

**Material:** Pre-galvanized Carbon Steel (PG)

### Ordering/Technical Information:

Item #	Description	Finish	Inside Diameter	Gauge	Length	Box Qty
00306575	Insulation Shield 2"	PG	2-1/2"	18	12"	1
00306576	Insulation Shield 2-1/2"	PG	3"	18	12"	1
00306577	Insulation Shield 3"	PG	3-5/8"	18	12"	1
00306578	Insulation Shield 4"	PG	4-5/8"	18	12"	1
00306579	Insulation Shield 5"	PG	5-5/8"	18	12"	1
00306580	Insulation Shield 6"	PG	6-3/4"	16	12"	1
00306581	Insulation Shield 8"	PG	8-3/4"	16	12"	1
00306582	Insulation Shield 10"	PG	10-3/4"	16	18"	1
00306583	Insulation Shield 12"	PG	12-3/4"	14	24"	1

## Product Submitted: LH Loop Hangers



- Feature/service:** Pipe support manufactured to use minimum rod sizes permitted by NFPA for fire sprinkler piping.
- Size Range:** 1/2" to 8" pipe sizes
- Material:** Pre-galvanized carbon steel with zinc-electroplated insert nut
- Approvals:** Factory Mutual - FM
- Listings:** Underwriters Laboratories - UL, cUL
- Conforms with:** Federal Specification WW-H-171 (Type 10) and Manufacturers Standardization Society MSS-SP-58 (Type 10)
- Installation:** Install in accordance with ANSI/MSS-SP-69

### Ordering/Technical Information:

Item No.	Description	Box Qty	Tubing Size	OD	A	B	C	D	E	T	Max allow load (lb)*
00257353	LH 1/2"	100	1/2"	7/8"	3/8"	1-5/16"	2-5/16"	1-1/16"	2-3/4"	.042"-.052"	300
00257354	LH 3/4"	100	3/4"	1-1/8"	3/8"	1-1/2"	2-1/2"	1-1/16"	3-1/16"	.042"-.052"	300
00337820	LH 1"	100	1"	1-3/8"	3/8"	1-5/8"	2-5/8"	1-1/16"	3-5/16"	.042"-.052"	300
00257356	LH 1-1/4"	100	1-1/4"	1-11/16"	3/8"	1-11/16"	2-11/16"	1"	3-9/16"	.042"-.052"	300
00257357	LH 1-1/2"	100	1-1/2"	1-15/16"	3/8"	1-13/16"	2-13/16"	1"	3-13/16"	.042"-.052"	300
00257358	LH 2"	100	2"	2-7/16"	3/8"	2-1/16"	3-1/16"	1"	4-1/4"	.042"-.052"	300
00257359	LH 2-1/2"	100	2-1/2"	3"	3/8"	2-15/16"	3-15/16"	1-5/8"	5-9/16"	.083"-.090"	525
00257360	LH 3"	50	3"	3-5/8"	3/8"	3-5/8"	4-5/8"	2"	6-9/16"	.083"-.090"	525
00257362	LH 4"	50	4"	4-11/16"	3/8"	4-3/16"	5-3/16"	2-1/16"	7-9/16"	.083"-.090"	650
00257364	LH 6"	20	6"	6-13/16"	1/2"	6-5/8"	7-7/8"	3-7/16"	11-5/16"	.097"-.110"	1000
00257365	LH 8"	15	8"	8-13/16"	1/2"	7-3/16"	8-7/16"	3"	12-7/8"	.114"-.127"	1000

\*Based on a safety factor of 3.5.

## Product Submitted: Threaded Rod



**Size Range:** 1/4"-3/4" in 6' and 10' lengths  
**Material:** AISI 1008 - 1010 or ASTM A36 Steel  
**Finish:** Plain Oil or Zinc Plated

### Ordering/Technical Information:

Item No.	Description	Tube Qty	Weight Lb/ft	Wt. (lbs) per pkg.	Diam. In.	Pitch Diameter In.	Major Diameter In.	Material	Max allow tensile load (lb)**
00257963	1/4"-6' THREADED ROD-ZINC	50	.12	35.70	1/4-20	.2164-.2108	.2489-.2367	AISI 1008-1010	240
00257964	3/8"-6' THREADED ROD-ZINC	25	.30	42.60	3/8-16	.3331-.3266	.3737-.3595	AISI 1008-1010	610
00257965	1/2"-6' THREADED ROD-ZINC	12	.50	38.80	1/2-13	.4485-.4411	.4985-.4822	AISI 1008-1010	1130
00257966	5/8"-6' THREADED ROD-ZINC	8	.84	39.80	5/8-11	.5644-.5561	.6234-.6052	AISI 1008-1010	1810
00257967	3/4"-6' THREADED ROD-ZINC	5	1.20	36.20	3/4-10	.6832-.6744	.7482-.7288	ASTM A36	2710
00257968	1/4"-6' THREADED ROD-PLAIN	50	.12	35.70	1/4-20	.2164-.2108	.2489-.2367	AISI 1008-1010	240
00257969	3/8"-6' THREADED ROD-PLAIN	25	.30	42.60	3/8-16	.3331-.3266	.3737-.3595	AISI 1008-1010	610
00257970	1/2"-6' THREADED ROD-PLAIN	12	.50	38.80	1/2-13	.4485-.4411	.4985-.4822	AISI 1008-1010	1130
00309386	1/4"-10' THREADED ROD-ZINC	50	.12	59.50	1/4-20	.2164-.2108	.2489-.2367	AISI 1008-1010	240
00309387	3/8"-10' THREADED ROD-ZINC	25	.30	71.30	3/8-16	.3331-.3266	.3737-.3595	AISI 1008-1010	610
00309388	1/2"-10' THREADED ROD-ZINC	12	.50	61.40	1/2-13	.4485-.4411	.4985-.4822	AISI 1008-1010	1130
00309389	5/8"-10' THREADED ROD-ZINC	8	.84	66.50	5/8-11	.5644-.5561	.6234-.6052	AISI 1008-1010	1810
00309390	3/4"-10' THREADED ROD-ZINC	5	1.20	60.00	3/4-10	.6832-.6744	.7482-.7288	ASTM A36	2710
00309391	1/4"-10' THREADED ROD-PLAIN	50	.12	59.50	1/4-20	.2164-.2108	.2489-.2367	AISI 1008-1010	240
00309392	3/8"-10' THREADED ROD-PLAIN	25	.30	71.30	3/8-16	.3331-.3266	.3737-.3595	AISI 1008-1010	610
00309393	1/2"-10' THREADED ROD-PLAIN	12	.50	61.40	1/2-13	.4485-.4411	.4985-.4822	AISI 1008-1010	1130
00309394	5/8"-10' THREADED ROD-PLAIN	8	.84	66.50	5/8-11	.5644-.5561	.6234-.6052	AISI 1008-1010	1810
00309395	3/4"-10' THREADED ROD-PLAIN	5	1.20	60.00	3/4-10	.6832-.6744	.7482-.7288	ASTM A36	2710

\*\* Per MSS SP-58, the maximum allowable tensile loads are based on an allowable tensile stress of 12,000 psi reduced by 25% resulting in 9,000 psi. The 12,000 psi allows for the interchangeability of the referenced rod materials. The 25% reduction is to allow for normal installation and service conditions.

## Product Submitted: Fastening Products

### Technical Data: Nuts

#### Material

ASTM A563 Grade A

#### Dimensions

ANSI/ASME B18.2.2 1986

#### Finish

ASTM B633-85, SC 1 Type I

### Technical Data: Washers

#### Material

AISI 1005 through 1035

#### Dimensions

ANSI/ASME B18.22.1 1986

#### Finish

ASTM B633-85, SC 1 Type I

### Nuts and Washers

Item No.	Description	Plg Desc	Box Qty
00335549	HEX NUT-HEAVY HEX 1/4" (10 x 100)	Box	1000
00335550	HEX NUT-HEAVY HEX 3/8" (10 x 100)	Box	1000
00335551	HEX NUT-HEAVY HEX 1/2" (10 x 100)	Box	1000
00336402	HEX NUT-5/8"	Box	250
00336403	HEX NUT-3/4"	Box	250

Item No.	Description	Inside Dia.	Outside Dia.	Plg Desc	Box Qty
00335552	WASHER-USS 1/4" (10 x 100)	0.312	0.734	Box	1000
00335553	WASHER-USS 3/8" (10 x 100)	0.438	1.000	Box	1000
00335554	WASHER-USS 1/2" (10 x 100)	0.562	1.375	Box	1000
00336404	WASHER-5/8"	0.656	1.312	Box	250
00336405	WASHER-3/4"	0.812	1.469	Box	250

00313068	FENDER WASHER 1/4" (10 x 100)	0.281	1.250	Box	1000
00313069	FENDER WASHER 3/8" (10 x 100)	0.406	1.500	Box	1000
00313070	FENDER WASHER 1/2" (10 x 100)	0.406	2.000	Box	1000



### Technical Data

#### Material

ASTM A307

#### Dimensions

ANSI/ASME B18.2.1 1981

#### Finish

Zinc-electroplated to

ASTM B633-85, SC 1, Type I

### Hex Head Bolts

Item No.	Description	Plg Desc	Box Qty
00311951	HEX HEAD BOLT 3/8" x 1-1/4"	Box	500
00311952	HEX HEAD BOLT 3/8" x 1-1/2"	Box	500
00311953	HEX HEAD BOLT 1/2" x 1"	Box	250
00311954	HEX HEAD BOLT 1/2" x 1-1/4"	Box	250
00311955	HEX HEAD BOLT 1/2" x 1-1/2"	Box	250



### Technical Data

#### Material

Grade 2 carbon steel

#### Finish

Zinc-electroplated to

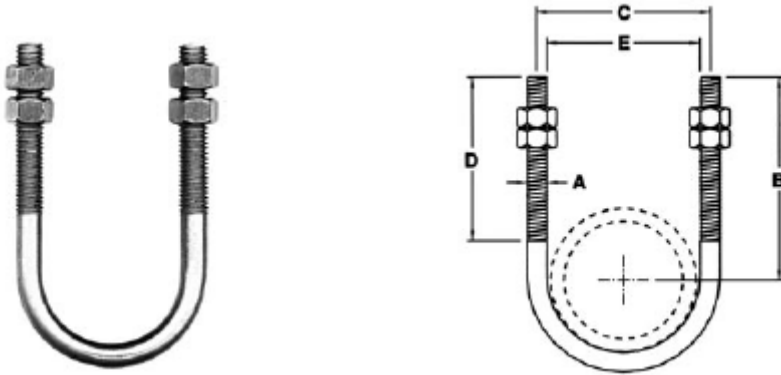
ASTM B633-85, SC 1, Type I

### Rod Couplers

Item No.	Description	Length	Plg Desc	Box Qty
00257983	1/4" ROD COUPLER	7/8"	Box	1000
00257984	3/8" ROD COUPLER	1-1/8"	Box	500
00257985	1/2" ROD COUPLER	1-1/4"	Box	500
00257986	5/8" ROD COUPLER	2-1/8"	Box	300
00257987	3/4" ROD COUPLER	2-1/4"	Box	200



**Product Submitted:** Standard U-Bolt



**Feature/service:** For support, anchor or guidance of loads.

**Size Range:** 1/2"-12"

**Material:** Carbon Steel

**Conforms with:** Federal specification WW-H-171 (Type 24) and  
Manufacturers Standardization Society MSS-SP-58 (Type 24)

**Installation:** Install in accordance with ANSI/MSS-SP-69

**Ordering/Technical Information:** Specify pipe size and item number. Additional sizes are available by special order.

## Standard U-Bolt: Electro-Galvanized

Item #	Description	Box Qty	Weight/ Piece (lb)	A	B	C	D	E
3024871	Std U Bolt 1/2" pipe EG	100	0.23	3/8"	2-3/8"	1-5/16"	2"	15/16"
3024873	Std U Bolt 3/4" pipe EG	100	0.24	3/8"	2-1/2"	1-1/2"	2"	1-1/8"
3024875	Std U Bolt 1" pipe EG	100	0.27	3/8"	2-3/4"	1-3/4"	2"	1-3/8"
3024877	Std U Bolt 1-1/4" pipe EG	100	0.28	3/8"	2-7/8"	2-1/8"	2-1/2"	1-3/4"
3024878	Std U Bolt 1-1/2" pipe EG	100	0.30	3/8"	3"	2-3/8"	2-1/2"	2"
3024879	Std U Bolt 2" pipe EG	50	0.33	3/8"	3-5/16"	2-13/16"	2-1/2"	2-7/16"
3024881	Std U Bolt 2-1/2" pipe EG	50	0.70	1/2"	3-13/16"	3-7/16"	3"	2-15/16"
3024883	Std U Bolt 3" pipe EG	50	0.75	1/2"	4"	4-1/16"	3"	3-9/16"
3024885	Std U Bolt 3-1/2" pipe EG	50	0.82	1/2"	4-1/4"	4-1/2"	3"	4-1/16"
3024886	Std U Bolt 4" pipe EG	50	0.88	1/2"	4-1/2"	5-1/16"	3"	4-9/16"
3024888	Std U Bolt 6" pipe EG	1	2.41	5/8"	6-1/16"	7-3/8"	3-1/2"	6-3/4"
3024889	Std U Bolt 8" pipe EG	1	2.84	5/8"	6-15/16"	9-3/8"	3-1/2"	8-3/4"
3024890	Std U Bolt 10" pipe EG	1	4.89	3/4"	8-3/8"	11-5/8"	4"	10-7/8"
3024891	Std U Bolt 12" pipe EG	1	7.76	7/8"	9-5/8"	13-3/4"	4-1/2"	12-7/8"

## Standard U-Bolt: Plain

Item #	Description	Box Qty	Weight/ Piece (lb)	A	B	C	D	E
3024872	Std U Bolt 1/2" pipe Plain	100	0.23	3/8"	2-3/8"	1-5/16"	2"	15/16"
3024874	Std U Bolt 3/4" pipe Plain	100	0.24	3/8"	2-1/2"	1-1/2"	2"	1-1/8"
3024876	Std U Bolt 1" pipe Plain	100	0.27	3/8"	2-3/4"	1-3/4"	2"	1-3/8"
3024880	Std U Bolt 2" pipe Plain	50	0.33	3/8"	3-5/16"	2-13/16"	2-1/2"	2-7/16"
3024882	Std U Bolt 2-1/2" pipe Plain	50	0.70	1/2"	3-13/16"	3-7/16"	3"	2-15/16"
3024884	Std U Bolt 3" pipe Plain	50	0.75	1/2"	4"	4-1/16"	3"	3-9/16"
3024887	Std U Bolt 4" pipe Plain	50	0.88	1/2"	4-1/2"	5-1/16"	3"	4-9/16"

**Product Submitted:** Seismic Hinge



**Feature/service:** For use with Hilti MS and HS channel profiles to brace against lateral loads

**Size Range:** Base/Hanger Half for use with 3/8" through 3/4" bolts or anchors  
Strut Half for use with 1/2" or smaller bolts

**Material:** Carbon Steel, A635, Grade 33

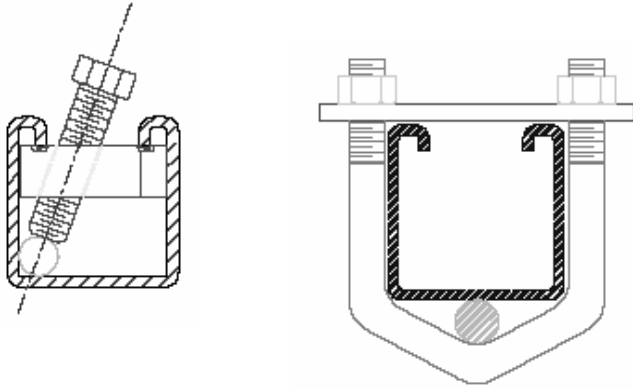
**Finish:** Electro-Galvanized per ASTM B633 SC1

**Conforms with:** Bolt conforms to ANSI B18.2.1 or SAE J429 Grade 2  
Nut conforms to ANSI B18.2.2 or SAE J995 Grade 2

**Ordering/Technical Information:**

Item #	Box Qty	Description	Hanger Rod/Bolt Diameter
00333309	10	Hilti Seismic Hinge, Strut Half w/ Bolt & Nut	-
00369714	10	Hilti Seismic Hinge, Base/Hanger Half, 3/8"	3/8"
00333308	10	Hilti Seismic Hinge, Base/Hanger Half, 1/2"	1/2"
00369715	10	Hilti Seismic Hinge, Base/Hanger Half, 5/8"	5/8"
00369716	10	Hilti Seismic Hinge, Base/Hanger Half, 3/4"	3/4"

**Product Submitted:** Vertical Rod Stiffener - Internal & External  
**Feature/service:**



- For use with seismic bracing to keep trapeze movement minimized

**Size Range:** Available in two styles only. For use 3/8", 1/2", 5/8", and 3/4" threaded rod in 1-5/8" Hilti channel

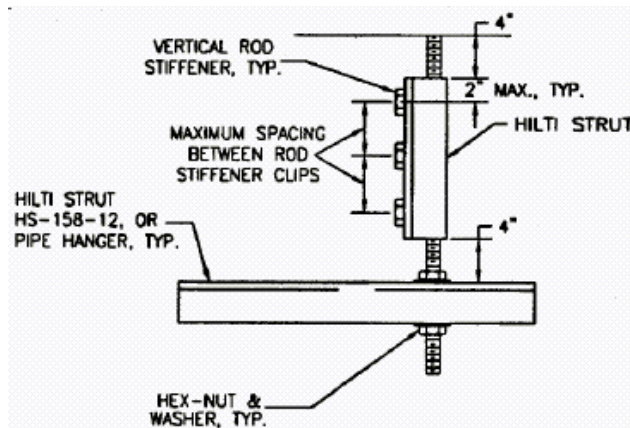
**Material:** Carbon Steel, ASTM A307

**Finish:** Electro-Galvanized

**Ordering/Technical Information:**

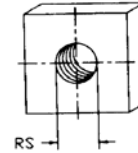
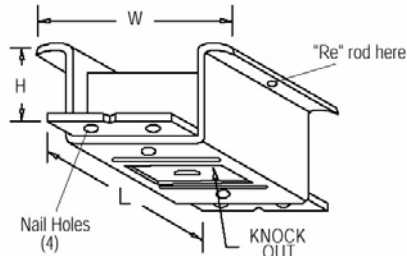
Item #	Description	Bolt Diameter	Box Qty
00311943	Hilti Rod Stiffener - Internal	3/8"	25
00370468	Hilti Rod Stiffener - External	3/8"	10

Threaded Rod Diam. (in)	Max. Spacing Between Rod Stiffener Clips* (in)
3/8	14
1/2	18
5/8	23
3/4	28
7/8	32
1	36
1-1/8	42
1-1/4	45



\*At least two vertical rod stiffeners should be used per installation to restrain buckling of the threaded rod.

## Product Submitted: Steel Concrete Spot Insert



### Steel Concrete Spot Insert

### Concrete Insert Nut

**Feature/service:** **Steel Concrete Insert**

Use as a structural attachment in concrete. Knockout keeps interior empty during pour. Insert allows for horizontal rod adjustment up to 1-1/4".

### Insert Nut

Hanger rod attachment to be installed inside of steel concrete insert.

**Size Range:** **Steel Concrete Insert**  
One size available

### Insert Nut

3/8" through 7/8" rod sizes

**Material:** Carbon Steel

**Finish:** Electro-Galvanized

**Conforms with:** Federal Specification WW-H-171 (Type 19) and Manufacturers Standardization Society ANSI/MSS-SP-58 (Type 18).

**Installation:** Install in accordance with ANSI/MSS-SP-69.

Place knockout side down on concrete form and nail in place. Wire 12" piece of reinforcing rod on both sides. After concrete pour, knockout can be removed with a screwdriver. Rod should be threaded through the insert nut until it tightens against the top of the insert.

**Ordering/Technical Information: Other sizes available by special order**

## Steel Concrete Spot Insert

Item #	Description	Box Qty	Max Rod Size	H	W	L	Max Pipe Size	Max Rec Load*
3024864	Concrete Insert EG (Electro-Galvanized)	100	7/8"	1-5/8"	3"	3"	10"	600
3024863	Concrete Insert Plain	100	7/8"	1-5/8"	3"	3"	10"	600

\*Based on a concrete mixture with a compressive strength of 2500 to 3000 psi with a safety factor of 3.

## Nut for Steel Concrete Spot Insert

Item #	Description	Box Qty	RS
3024866	Nut Concrete Insert Plain 3/8"	100	3/8
3024868	Nut Concrete Insert Plain 1/2"	100	1/2
3024865	Nut Concrete Insert EG 3/8"	100	3/8
3024867	Nut Concrete Insert EG 1/2"	100	1/2
3024321	Nut Concrete Insert EG 5/8"	100	5/8