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Date: 9/1/2025
Return Request: 9/15/2025
Project: Hot Springs National Park – Rehabilitate Bathhouses – Maurice Bathhouse
Supplier: Comfort Systems USA (Arkansas), Inc.
Manufacturer: Varies
Submittal: HVAC Supports and Anchors
Submittal Number: 230529.001
Spec Section: 230529
Drawing # and Installation Location: MP1.0 through MP1.3, and MP4.0

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GENERAL CONTRACTOR
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Comments:

CSUSA PROJECT NO.
25-7065
joe@comfortar.com

ASC Engineered Solutions

Adjustable Clevis Hanger
Fig. 260 (Formerly Afcon Fig. 371)

Size Range: ½" through 30"

Material: Carbon Steel

Finish: ☐ Plain, ☐ 8" & Smaller: Zinc Plated (Hot-Dip Galvanized optional), ☐ 10" & Larger: Hot-Dip Galvanized with Zinc Plated Bolts & Nuts, or ☐ Primed, also available in ☐ Plastic or ☐ Epoxy Coated.

Service: Recommended for the suspension of stationary pipe lines.

Maximum Temperature: Plain 650° F, Galvanized and Epoxy 450° F

Approvals: Complies with Federal Specification A-A-1192A (Type 1), WW-H-171-E (Type 1), ANSI/MSS SP-69 and MSS SP-58 (Type 1). FM Approved (Sizes ¾" through 8"), UL and ULC Listed (Sizes ½" through 8").

Installation: Hanger load nut above clevis must be tightened securely to assure proper hanger performance.

Adjustment: Vertical adjustment without removing pipe may be made from ⅜" through 5⅛", varying with the size of clevis. Tighten upper nut after adjustment.

Features:

- Design has yoke on outside of lower U-strap so yoke cannot slide toward center of bolt, thus bending of bolt is minimized.
- Sizes 5" and up have rod and two nuts instead of bolt and nut; thread length on clevis rod is such that the thread locks the nuts in place, and threads are not in shear plane.

UL US LISTED FM APPROVED

Ordering:

Specify pipe size, figure number, name and finish.

Notes:

- Punched forming holes may be present on certain sizes of this clevis hanger. These holes are solely for the purpose of manufacturing, and do not effect the structural integrity or load carrying capacities of these hangers.
- For insulated line options without shields, see Figures 260 ISS and Figure 300. For insulated line options with shields, see Figures 167 and 168. For ductile iron pipe sizes, see Figure 590.
- Fig. 260F (Felt lined) – available for use for suspension of copper (or other material) so as to prevent electrolysis between the dissimilar metals of the hanger and the pipe, tube or conduit.

Caution:

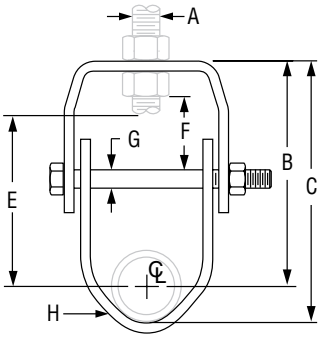
When an oversize clevis is used, a pipe spacer or multispacer should be placed over clevis bolt to ensure that the lower U-strap will not move in on the bolt.

ANVIL
An ASC Engineered Solution

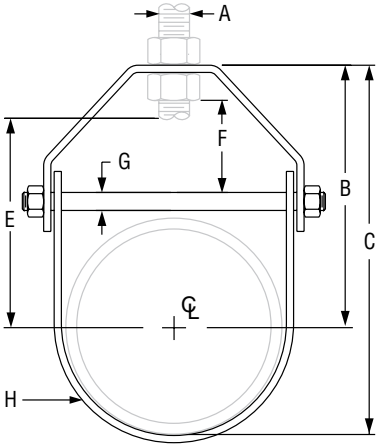
PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

ASC Engineered Solutions

Adjustable Clevis Hanger (Cont.)
Fig. 260 (Formerly Afcon Fig. 371)



Pipe Size ½" to ¾"



Pipe Sizes 1" and Larger

Fig. 260: Dimensions (in) • **Loads** (lbs) • **Weight** (lbs)

Pipe Size	Max Load	Span Ft.	Weight	Rod Size A	B	C	Rod Take Out E	Adjust. F	G	H Width Lower
½	610	7*	0.34	⅜	2 3/16	2 11/16	1½	⅝	¼	1
¾			0.34		2		1 5/16			
1	730		0.35		2 5/16	3	1⅝			
1¼			0.40		2⅜	3¼	1 11/16			
1½		9*	0.45		2 13/16	3 13/16	2⅛	⅞		
2		10*	0.50		3 5/16	4½	2⅝	1⅛		
2½	1,350	11*	0.65	½	4 1/16	5½	3 3/16	1 5/16	⅜	
3		12*	0.85		4¾	6½	4 1/16	1⅝		
3½		13*	1.10		5 1/16	7 1/16	4 3/16	1 13/16		1¼
4	1,430	14*	1.51	⅝	5 9/16	7 13/16	4½	1 11/16	⅜	
5		16*	1.70		6 9/16	8 15/16	5½	1 15/16		1 3/16
6	1,940	17*	3.10	¾	6 15/16	10¼	5¾	1 11/16	½	1 7/16
8	2,000	19*	4.75		8⅜	12 11/16	7 3/16	2		
10	3,600	22*	8.60	⅞	9⅞	15¼	8 7/16	2⅛	⅝	1¾
12	3,800	23*	11.20		11 9/16	17 15/16	10⅛	2 13/16		2
14	4,200	25*	12.50	1	12 9/16	19 9/16	10 11/16	2 11/16	¾	
16	4,600	27	19.85		14	22	12	2¾	1	2½
18	4,800	28	22.25		15 15/16	24 15/16	13 15/16	3 13/16		
20	4,800	30	40.33	1¼	17 9/16	27 9/16	15 3/16	3⅞	1¼	3
24**	4,800	32	49.83		19 13/16	31 13/16	17 5/16		⅞*	
30***	6,000	33	70.18		24 3/16	39 3/16	21 9/16	5⅛	1¼	

"Span" represents the maximum recommended distance between hangers on a continuous and straight run of horizontal standard weight steel pipe filled with water.
In all cases, verify that chosen location of hangers does not subject hangers to a load greater than the maximum recommended load shown above.
*Indicates that span represents the maximum span for water filled pipe.
**The 24" pipe size assembly includes a 1¼" SCH 40 pipe spacer over the ⅞" threaded rod.
***The 30" pipe size assembly includes a 1¼" SCH 40 pipe spacer over the 1¼" threaded rod. When assembled, the U-strap sits outside of the yoke.

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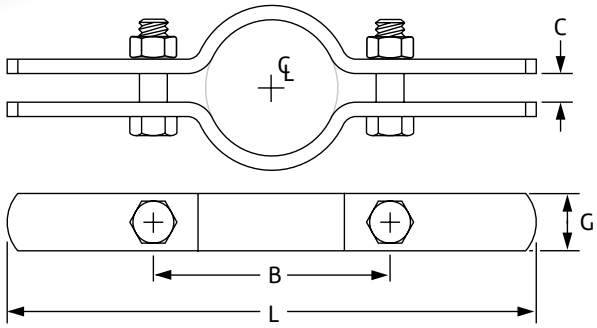
ASC Engineered Solutions

Extension Pipe or Riser Clamp
Fig. 261 (Formerly Afcon Fig. 400)



Size Range: ¾" through 24"

Material: Carbon steel

Finish: ☐Plain, ☐Hot-Dip Galvanized with Zinc Plated Bolts & Nuts, ☐Epoxy Coated or ☐Painted.

Service: For support of stationary steel pipe risers, cast iron pipe or conduit. This product is not intended for use with hanger rods. For this application refer to Fig. 40 Riser Clamp.

Maximum Temperature: Plain 650° F, Galvanized and Epoxy 450° F

Approvals: Complies with Federal Specification A-A-1192A (Type 8) WW-H-171-E (Type 8), ANSI/MSS SP-69 and MSS SP-58 (Type 8). UL, ULC Listed (Sizes 1½" - 8").

Installation: Clamp is fitted and bolted preferably below a coupling, hub or welded lugs on steel pipe. Bolt torques should be per industry standards (see page 248). Clamp is designed for standard steel pipe O.D. and this must be considered in sizing the riser for other types of piping.

Ordering: Specify pipe size, figure number, name and finish.

Note: Refer to Technical Data Section of the Pipe Hanger Catalog for cast iron soil pipe data.

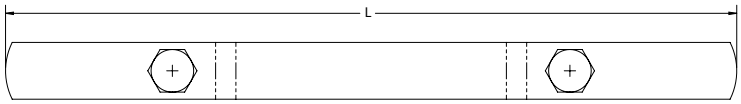
Fig. 261: Dimensions (in) • **Loads** (lbs) • **Torque** (ft-lbs) • **Weight** (lbs)

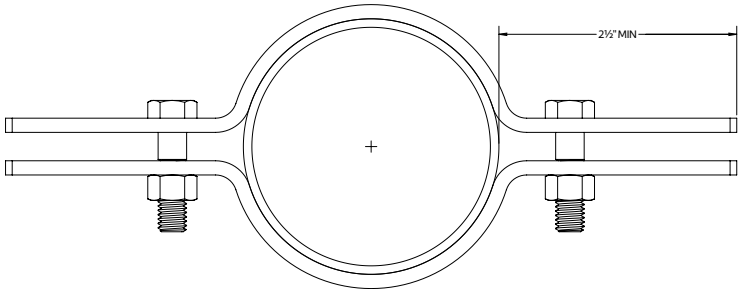
Pipe Size	Max Load	Weight	L	G Width	B	C	Bolt Diameter	Torque Values
½ & ¾	220	1.1	8⅞	1	2⅞	⅜	⅜	21
1		1.1			3⅛			
1¼	250	1.6	10		3½			
1½		1.6	10¼		3⅞			
2	300	1.7			4¼	½	7/16	32
2½	400	1.9	11¼		4¾			
3	500	1.9	11⅜		5½			
3½	600	2.3	12⅞		6½	½	½	46
4	750	2.4			7			
5	1,500	3.6	13¾	1½	8			
6	1,600	4.0	14¾		9			
8	2,500	7.6	18½		12	⅝	⅝	100
10		11.1	20¼	2	13¾			
12	2,700	16.5	22¾		15¾			
14		17.7	24		17¼			
16	2,900	30.4	26	2½	19¾	¾	¾	150
18		33.8	28		21¾			
20		35.0	30		23¾			
24	3,200	82.0	36¾	3	30	1	⅞	190

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

ASC Engineered Solutions

Light Duty Copper Tubing Riser Clamp
Fig. 008CTG





Size Range: ½" through 6" CTS

Material: Carbon Steel

Finish: Epoxy coated

Service: Recommended for the suspension of stationary copper tube.

Maximum Temperature: 450° F

Approvals: MSS SP–58 (Type–8)

Installation: Clamp is to be fitted and bolted below a coupling or hub. Bolt torques should be per industry standards. Clamp is designed for standard copper tube O.D. and this must be considered in sizing the riser for other types of piping.

Ordering: Nominal pipe size and figure number.

Notes:

- For U.S. domestic product see Figure CT–121 copper tubing riser clamp.

Fig. 008CTG: Dimensions (in) **Loads** (lbs)

Pipe Size	Max Load	Length
½	150	8½
¾	150	9¼
1	150	9 5/16
1¼	150	9½
1½	150	9⅝
2	150	10 7/16
2½	150	11 3/16
3	200	11 15/16
4	250	12½
6	480	15 3/16

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Project:	☐ Approved
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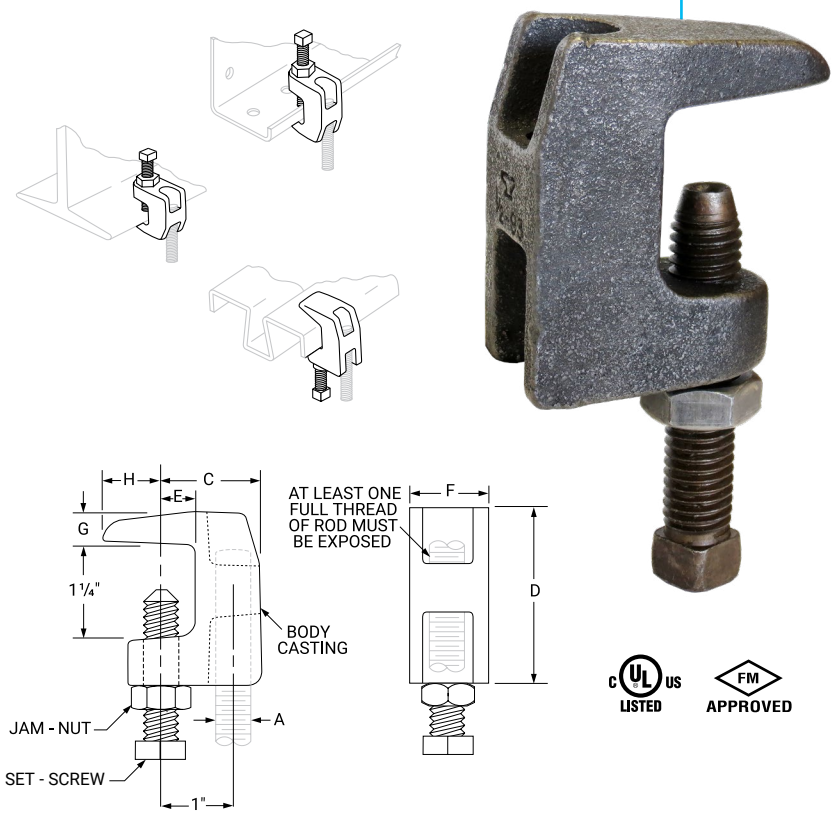
Submittal Date:	
Notes 1:	
Notes 2:	

ASC Engineered Solutions

Universal C-type Clamp (Wide Throat)
Fig. 93 (Formerly Afcon Fig. 105)



Dimensions (In) - Load (Lbs) - Torque (In-Lbs) - Weight (Lbs)

Rod Size A	Set Screw Size	Torque Value	Max Loads ■ Top	Max Loads ■ Bottom	Weight	C	D	E	F	G	H
In.	In.	In.-Lbs.	Lbs.	Lbs.	Lbs.	In.	In.	In.	In.	In.	In.
3/8	3/8	60	500	250	0.41	1 5/16	2 5/32	9/16	13/16	3/8	5/8
1/2	1/2	125	950	760	0.75	1 3/8	2 11/32	1/2	1 1/16	7/16	13/16

Note:

■ Maximum temperature of 450° F

Material Specifications

Size Range
3/8" and 1/2"

Material
Ductile iron, hardened steel cup point set screw and locknut.

Finish
☐ Plain
☐ Zinc Plated (Hot-Dip Galvanized optional)

Service
Recommended for use under roof installations with bar joist type construction, or for attachment to the top or bottom flange of structural shapes where the vertical hanger rod is required to be offset from the edge of the flange and where the thickness of joist or flange does not exceed 1¼".

Approvals
Complies with Federal Specification A-A-1192A (Type 19 & 23), WW-H-171-E (Type 23), ANSI/MSS SP-69 and MSS SP-58 (Type 19 & 23).

UL, ULC Listed and FM Approved.

How to size
Size of clamp is determined by size of rod to be used.

Installation
Follow recommended set screw torque values per MSS-SP-69.

Features
- They may be attached to horizontal flanges of structural members in either the top beam or bottom beam positions.
- Secured in place by a cup-pointed Set Screw tightened against the flange. A Jam Nut is provided for tightening the Set Screw against the Body Casting.
- Thru tapping of the body casting permits extended adjustment of the threaded rod.
- Wider throat for attaching to flange with up to 1¼" thickness.

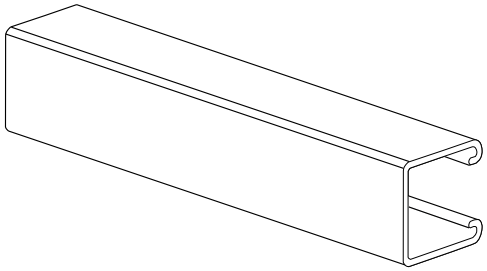
Ordering
Specify rod size, figure number, name of clamp and finish.

Available with oversized tapped rod hole for Hot Dip Galvanized finish.

ANVIL
An ASC Engineered Solution

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

Channel
Fig. AS 200

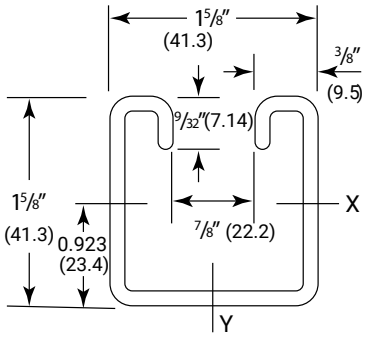


Specifications

Size:
1⅝" X 1⅝" (41.3 x 41.3mm)
12 Gauge Channel • wt./100 ft. - 194 lbs.

Materials:
Carbon Steel
Stainless Steel
Aluminum

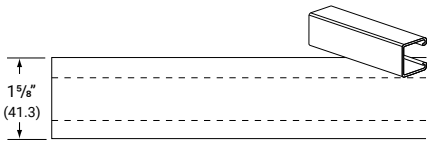
Finishes
Pre-Galvanized
Hot Dip Galvanized - Post Fabrication
Supr-Green Powder Coated
Zinc Trivalent Chromium
PVC



Description

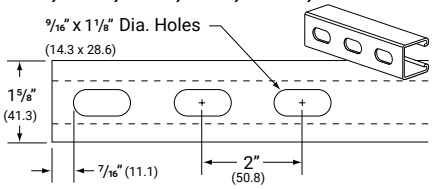
Anvil-Strut channels are manufactured by a series of forming dies, or rolls, which progressively cold work the strip steel into the desired channel configuration. This method produces a cross section of uniform dimensions within a tolerance of plus or minus 0.015", on outside dimensions.

Solid ☐ AS 200
☐ PL, ☐ GR, ☐ PG, ☐ SS, ☐ ZTC, ☑ HG



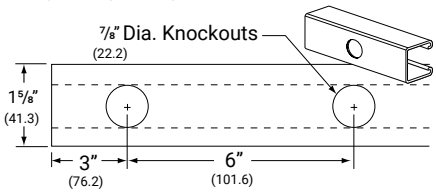
Wt/100 Ft: 194 Lbs

With Elongated Holes ☑ AS 200EH
☐ PL, ☑ GR, ☐ PG, ☐ SS, ☐ ZTC, ☐ HG



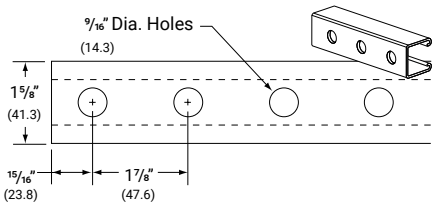
Wt/100 Ft: 189 Lbs

With Knock Out ☐ AS 200KO
☐ PL, ☐ GR, ☐ PG, ☐ Other



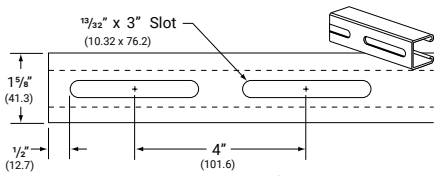
Wt/100 Ft: 194 Lbs

With Holes ☐ AS 200H
☐ PL, ☐ GR, ☐ PG, ☐ Other



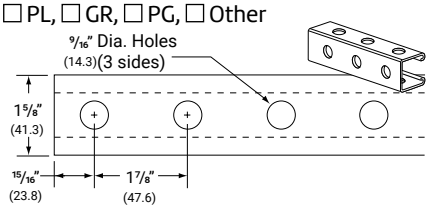
Wt/100 Ft: 189 Lbs

With Long Slots ☐ AS 200S
☐ PL, ☐ GR, ☐ PG, ☐ Other



Wt/100 Ft: 179 Lbs

With Holes on 3 Sides ☐ AS 200H3
☐ PL, ☐ GR, ☐ PG, ☐ Other



Wt/100 Ft: 179 Lbs

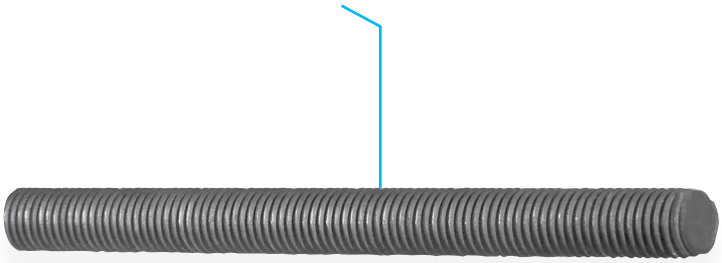
LEGEND:
GR: Powder Coated Supr-Green
EG: Electro-Galvanized
PG: Pre-Galvanized
AL: Aluminum
HG: Hot Dipped Galvanized
PL: Plain
SS: Stainless Steel
ZTC: Zinc Trivalent Chromium Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

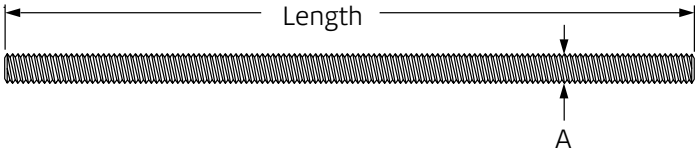
ANVIL-STRUT
An ASC Engineered Solution

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

ASC Engineered Solutions

Continuous Threaded Rod
Fig. 146 (Formerly Afcon Fig. 650)





Size Range: ¼" through 1½" stocked in six, ten, and twelve foot lengths. Other even foot lengths can be furnished to order.

Material: Carbon steel or Stainless Steel Gr 304

Threads: National Coarse (USS), rod threaded complete length.

Finish: ☐ Plain or ☐ Zinc Plated (Hot-Dip Galvanized optional)

Maximum Temperature: Zinc Plated 450˚F, Stainless Steel 650˚ F

Approvals: Complies with MSS SP-58.

Ordering: Specify rod diameter and length, figure number,name and finish.

Note: The acceptability of galvanized coatings at temperatures above 450˚F is at the discretion of the end user.

ANVIL
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Fig. 146: Dimensions (in) • **Loads** (lbs) • **Weight** (lbs)

Rod Size A	Threads per Inch	Max Load 650˚ F	Weight per Ft.
¼	20	240	0.12
⅜	16	730	0.30
½	13	1,350	0.53
⅝	11	2,160	0.84
¾	10	3,230	1.20
⅞	9	4,480	1.70
1	8	5,900	2.30
1¼	7	9,500	3.60
1½	6	13,800	5.10

PROJECT INFORMATION	APPROVAL STAMP
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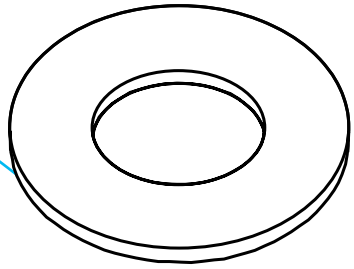
Notes 2:	

Flat Washer
Figs. AS 209, AS 3500, AS 211, AS 83, AS 209, AS 6108, AS 230

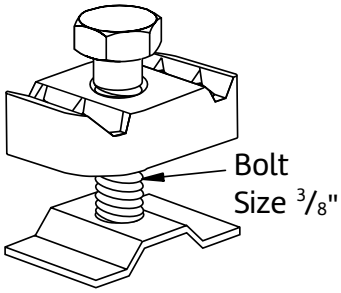


Description

Anvil-Strut Hardware, when used in conjunction with Anvil-Strut Channel and Nuts, provides a superior grip between channels and fittings.

Seismic Rod Stiffener

☐ AS 3500 ☐ EG, ☐ ZTC

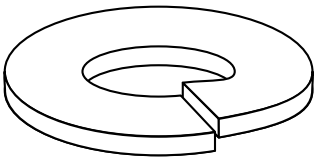


Size	Wt./100 Pcs.
3/8" – 5/8"	16

Std Pkg: 25 · Wt/100 pcs: See chart above.

Lock Washer

☐ AS 211 ☐ EG



Size	Wt./100 Pcs.
1/4"	0.3
3/8"	0.7
1/2"	1.5

Std Pkg: 100 · Wt/100 pcs: See chart above.

LEGEND:
GR: Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum
HG: Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel
ZTC: Zinc Trivalent Chromium Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

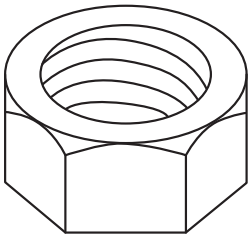
PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

ASC Engineered Solutions

Flat Washer
Figs. AS 209, AS 3500, AS 211, AS 83, AS 209, AS 6108, AS 230

Hexagon Nut

☐ AS 83 ☑ EG

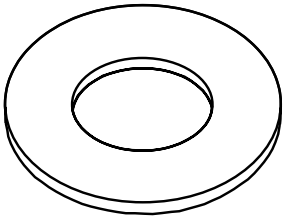


Size	Std. Pkg.	Wt./100 Pcs.
1/4"	500	0.6
3/8"	500	1.6
1/2"	100	4.8
5/8"	50	7.0
3/4"	50	12.0

Std Pkg & Wt/100 pcs: See chart above.

Flat Washer

☐ AS 209 ☐ EG

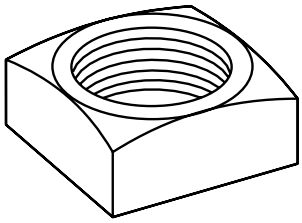


Size	Std. Pkg.	Wt./100 Pcs.
1/4"	200	0.7
3/8"	100	1.5
1/2"	100	3.5
5/8"	100	8.0
3/4"	100	11.0

Std Pkg & Wt/100 pcs: See chart above.

Square Nut

☐ AS 6108 ☐ EG

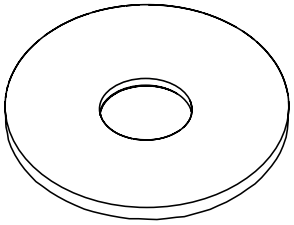


Size	Std. Pkg.	Wt./100 Pcs.
1/4"	100	0.9
5/16"	100	1.6
3/8"	100	2.7
1/2"	100	5.8

Std Pkg & Wt/100 pcs: See chart above.

Square Nut

☐ AS 230 ☐ EG



Size	Std. Pkg.	Wt./100 Pcs.
1/4"	100	3.3
3/8"	100	3.0
1/2"	100	2.8

Std Pkg & Wt/100 pcs: See chart above.

LEGEND:
GR: Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum
HG: Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel
ZTC: Zinc Trivalent Chromium Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

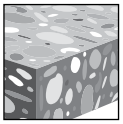
ANVIL-STRUT
An ASC Engineered Solution

3.3.12 HDI+, HDI-L+, AND HDI DROP IN ANCHORS

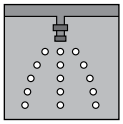
PRODUCT DESCRIPTION

HDI+, HDI-L+, and HDI Drop-in anchors

Anchor System		Features and Benefits
	HDI-L+ and HDI+ with Auto setting tools 1/4” to 1/2”	• Anchor, setting tool and Hilti drill bit form a matched tolerance system to provide reliable fastenings • Allows shallow embedment without sacrificing performance • Lip allows accurate flush surface setting, independent of hole depth for the HDI-L+ • Ideal for repetitive fastenings with threaded rods of equal length
	HDI and Manual setting tool 5/8” to 3/4”	• HDI+ and HDI-L+ have an innovative stepped plug that reduces number of hammer blows by up to 50% • HDI+ and HDI-L+ can be installed with the new HDI+ Setting Tool system (stop drill bit and machine setting tool) for improved productivity



Uncracked concrete



Fire sprinkler listings

Approvals/Listings	
FM (Factory Mutual)	Pipe hanger components for automatic sprinkler systems HDI+ 3/8, HDI-L+ 3/8, HDI+1/2, HDI-L+ 1/2, HDI 5/8 and HDI 3/4
UL and cUL (Underwriters Laboratory)	Pipe hanger equipment for fire protection services HDI+ 3/8, HDI-L+ 3/8, HDI+1/2, HDI-L+ 1/2, HDI 5/8 and HDI 3/4

INSTALLATION PARAMETERS

Table 1 - Hilti HDI+, HDI-L+ and HDI specifications[1]

Setting Information	Symbol	Units	HDI+ and HDI-L+			HDI	
			1/4	3/8	1/2	5/8	3/4
Insert thread	d	UNC	1/4-20	3/8-16	1/2-13	5/8-11	3/4-10
Nominal bit diameter	d_{bit}	in.	3/8	1/2	5/8	27/32	1
Nominal embedment Anchor length Hole depth	h_{nom} ℓ h_o	in. (mm)	1 (25)	1-9/16 (40)	2 (51)	2-9/16 (65)	3-3/16 (81)
Useable thread length	ℓ_{th}	in. (mm)	7/16 (11)	5/8 (15)	11/16 (17)	7/8 (22)	1-3/8 (34)
Installation torque	T_{inst}	ft-lb (Nm)	4 (5)	11 (15)	22 (30)	37 (50)	80 (109)
Minimum slab thickness	h	in. (mm)	3 (76)	3-1/8 (79)	4 (102)	5-1/8 (130)	6-3/8 (162)

1 HDI+ and HDI-L+ are available in 1/4-, 3/8- and 1/2-in. The HDI is available in 5/8- and 3/4-in.

MATERIAL SPECIFICATIONS

HDI+, HDI-L and HDI anchors are manufactured from mild carbon steel. Anchor bodies are zinc plated in accordance with ASTM B633, AC 1, Type III

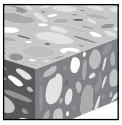
HDI stainless steel anchors are manufactured from AISI Type 303 stainless steel

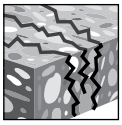
3.3.5 KWIK BOLT TZ EXPANSION ANCHOR

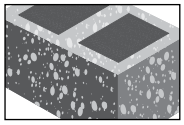
PRODUCT DESCRIPTION

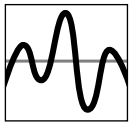
KWIK Bolt TZ carbon steel and stainless steel anchors

Anchor System		Features and Benefits
Carbon Steel KB-TZ	Stainless Steel KB-TZ	• Used with Hilti Dust Removal System (DRS) for dustless drilling and installation (compliant with Table 1 of OSHA 1926.1153 regulations for silica dust exposure). • Accurate SafeSet™ installation when using the Hilti SIW-6AT-A22 impact wrench and the SI-AT-A22 Adaptive Torque Module • Product and length identification marks facilitate quality control after installation. • Through fixture installation and variable thread lengths improve productivity and accommodate various base plate thicknesses. • Type 316 stainless steel wedges provide superior performance in cracked concrete. • Ridges on expansion wedges provide increased reliability. • Mechanical expansion allows immediate load application. • Raised impact section (dog point) prevents thread damage during installation. • Bolt meets ductility requirements of ACI 318-14 Section 2.3. • ACI 349-01 Nuclear Design Guide is available. Call Hilti Technical Support.
Hilti SIW-6AT-A22 impact wrench and the SI-AT-A22 Adaptive Torque Module		


Uncracked concrete

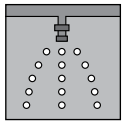

Cracked concrete


Grout-filled concrete masonry


Seismic Design Categories A-F

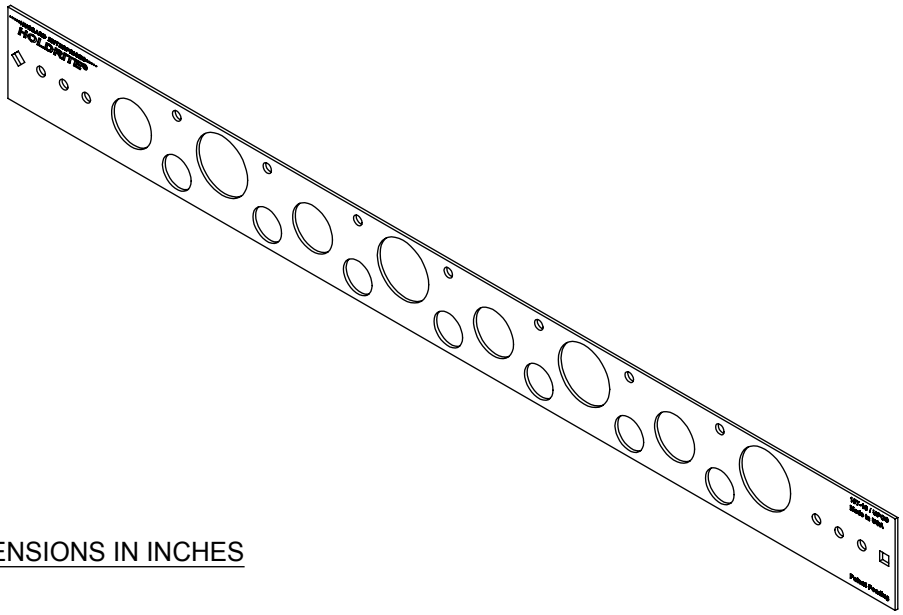
Hollow Drill Bit with Adaptive Torque Tool (AT)

Profis Anchor design software

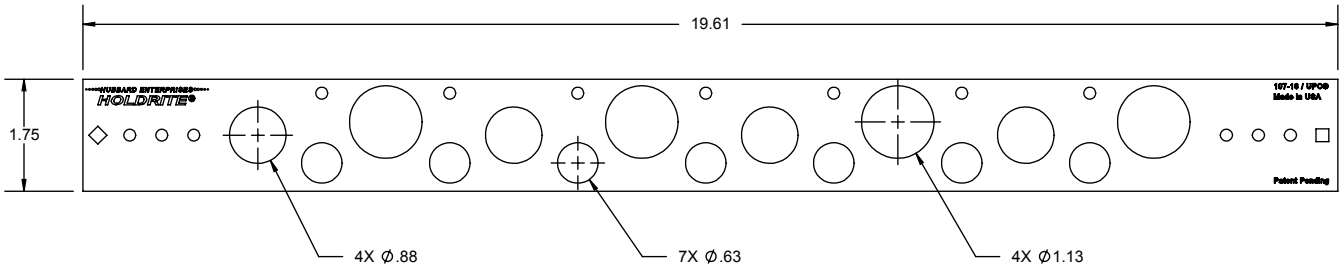

Fire sprinkler listings

Approvals/Listings	
ICC-ES (International Code Council) - 2018 International Building Code / International Residential Code (IBC/IRC) - 2015 National Building Code of Canada (NBC-C)	ESR-1917 in concrete per ACI 318-14 Ch. 17 / ACI 355.2/ ICC-ES AC193 ESR-3785 in grout-filled CMU per ICC-ES AC01 ELC-1917 in concrete per CSA A23.3-14 / ACI 355.2
City of Los Angeles	2017 LABC Supplement (within ESR-1917) RR 26057 grout-filled CMU
Florida Building Code	2010 FBC with HVHZ
FM (Factory Mutual)	Pipe hanger components for automatic sprinkler systems 3/8 through 3/4
UL and cUL (Underwriters Laboratory)	Pipe hanger equipment for fire protection services for 3/8 through 3/4

PRODUCT SPECIFICATION DRAWING
HOLDRITE® #107-18 BRACKET



ALL DIMENSIONS IN INCHES



The HOLDRITE #107-18 is a Copper-Bonded™ steel bracket with holes on 2" centers to position 1/2" copper tubing and holes on 4" centers to position 3/4" and 1" copper tubing.

Product Information:

- Material: 16 gage CRS, Copper-Bonded™
- Load rating: 25 pounds
- UPC / IPC / IAPMO listed

complies with IPC

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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