

Beam Clamps



Beam clamps offered in this section are designed to provide attachment of hanger rods to structural members without drilling or welding. A wide range of types and sizes are available for various applications.

Materials

Carbon Steel, Malleable Iron and Forged Steel are used in the manufacturing of beam clamps and accessories. Stainless steel and other materials are available.

Finishes

The standard finishes for mechanical supports are plain steel (oil coated) sometimes referred to as black and Electro-Galvanized Zinc (ASTM B633 SC3). Hot-Dip Galvanized After Fabrication (ASTM A123), Red Primer, Plastic Coating and DURA GREEN™. Other special coatings are available upon request.

Note: Due to the design of some products, (threads, connecting hardware, swivels, etc.) items may or may not be uniformly coated with special finishes. In some cases, the hanger itself may be coated, however, the hardware may be supplied Electro-Plated, copper plated, or in stainless steel.

Recommended Set screw Torque (unless otherwise specified)

1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
4 ft/lbs (5 Nm)	5 ft/lbs (7 Nm)	11 ft/lbs (15 Nm)	21 ft/lbs (28 Nm)	34 ft/lbs (46 Nm)

Over torqued set screws will damage beam clamps in this section.

We are aware that torque wrenches are not used or not available in many instances. In the absence of a torque wrench, the set screw should be finger tightened to the I-beam and then an additional 1/4 to 1/2 turn applied to the set screw.

Approvals (as noted)

Items in this section are Underwriters Laboratories Listed, Factory Mutual Approved, and comply with Federal Specification WW-H-171E & A-A-1192A or Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58.

B351L - Steel C-Clamp With Locknut

Size Range: 3/8"-16 thru 7/8"-9 rod

Material: Steel

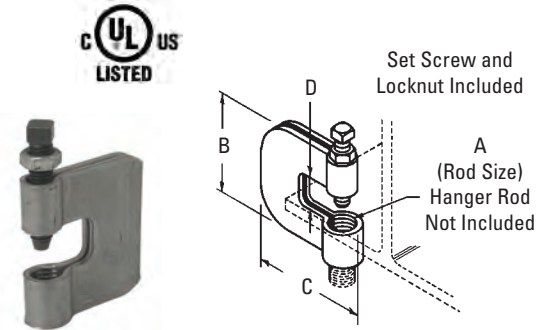
Function: For attachment to I-beams, channels, and wide flange beams where the thickness does not exceed 3/4" (19.0mm). Hardened set screw secures "C" Clamp to beam.

Approvals: B351L (3/8"-16 thru 3/4"-10), is Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 23 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 23.

Finish: Plain. Contact customer service for alternative finishes and materials.

Note: When retaining strap is required, order B3362 thru B3365 separately. See page 29.

Order By: Part number and finish



Part No.	Rod Size A	B		C		D		Design Load		Maximum Iron Pipe Size Per UL		Approx. Wt./100	
		in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)	in.	(mm)	Lbs.	(kg)
B351L-3/8	3/8"-16	2 3/8"	(60.3)	2 3/8"	(60.3)	3/4"	(19.0)	300	(0.89)	4"	(100)	41	(18.6)
B351L-1/2	1/2"-13	2 3/8"	(60.3)	2 3/8"	(60.3)	3/4"	(19.0)	380	(1.69)	6"	(150)	41	(18.6)
B351L-5/8	5/8"-11	2 3/8"	(60.3)	2 1/4"	(57.1)	3/4"	(19.0)	550	(2.44)	6"	(150)	60	(27.2)
B351L-3/4	3/4"-10	2 3/8"	(60.3)	2 1/4"	(57.1)	3/4"	(19.0)	630	(2.80)	6"	(150)	71	(32.2)
B351L-7/8	7/8"-9	3"	(76.2)	3 1/4"	(82.5)	1"	(25.4)	1200	(5.34)	--	--	184	(83.4)

Note: See page 27 for recommended setscrew torque.

B3036L - Malleable Iron C-Clamp With Locknut

Size Range: 3/8"-16 thru 3/4"-10 rod

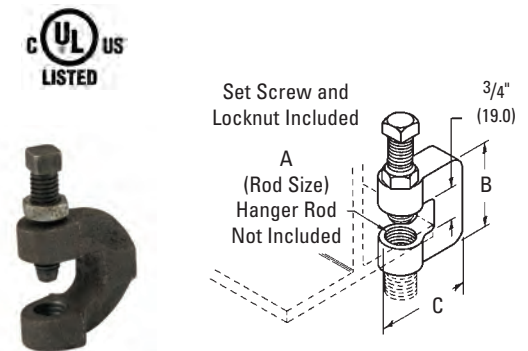
Material: Malleable Iron

Function: Designed for attaching a hanger rod to the flange of a beam.

Approvals: B3036L is Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Complies with Federal Specification WW-H-171E & A-A-1192A Type 23 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 Type 23.

Finish: Plain or Electro-Galvanized

Order By: Part number and finish. When retaining strap is required, order B3362 thru B3365 separately. See page 29.



Part No.	Rod Size A	B		C		Design Load		Maximum Iron Pipe Size Per UL		Approx. Wt./100	
		in.	(mm)	in.	(mm)	Lbs.	(kN)	in.	(mm)	Lbs.	(kg)
B3036L-3/8	3/8"-16	1 3/4"	(44.4)	1 3/4"	(44.4)	300	(0.89)	4"	(100)	41	(18.6)
B3036L-1/2	1/2"-13	1 3/4"	(44.4)	1 3/4"	(44.4)	380	(1.69)	5"	(125)	41	(18.6)
B3036L-5/8	5/8"-11	2"	(50.8)	1 7/8"	(47.6)	530	(2.36)	6"	(150)	60	(27.2)
B3036L-3/4	3/4"-10	2"	(50.8)	2"	(50.8)	530	(2.36)	6"	(150)	71	(32.2)

Note: See page 27 for recommended setscrew torque.

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

B3362, B3363, B3364, B3365 - Retaining Strap

Size Range: 6" (152.4mm) to 12" (304.8mm) lengths

Material: Steel (Stainless Steel available)

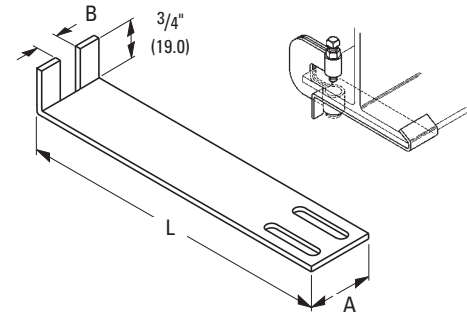
Finish: Pre-Galvanized

Function: Designed for use with B351L and B3036L C-Clamps.

Order By: Part number, length 'L', (add 1" (25.4) minimum to flange width), and finish.

Note: Requires field forming on beam.

Flange Width		Length L
in.	(mm)	in. (mm)
3"-5"	(76-127)	6" (152.4)
5"-7"	(127-178)	8" (203.2)
7"-9"	(178-228)	10" (254.0)
9"-11"	(228-279)	12" (304.8)



Material Thickness
12 Gauge (2.7)



Part No.	For Use With	A		B		Approx. Wt./100 for Length 'L' of							
		in.	(mm)	in.	(mm)	6" (152.4)	8" (203.2)	10" (254.0)	12" (304.8)				
						Lbs.	(kg)	Lbs.	(kg)	Lbs.	(kg)	Lbs.	(kg)
B3362-L	B351L- ³ / ₈ & 1/2	1 1/4"	(31.7)	7/16"	(11.1)	27	(12.2)	35	(15.9)	44	(19.9)	52	(23.6)
B3363-L	B351L- ⁵ / ₈ & ³ / ₄ , B3036L- ³ / ₈ & 1/2	1 1/4"	(31.7)	5/8"	(15.9)	26	(11.8)	35	(15.9)	43	(19.5)	52	(23.6)
B3364-L	B3036L- ⁵ / ₈ & ³ / ₄	1 1/4"	(31.7)	1 1/16"	(17.4)	26	(11.8)	35	(15.9)	43	(19.5)	52	(23.6)
B3365-L	B351L- ⁷ / ₈	1 1/2"	(38.1)	3/4"	(19.0)	32	(14.5)	42	(19.0)	52	(23.6)	62	(28.1)

Beam Clamps

B3037 - Z-Purlin Malleable C-Clamp

Material: Malleable Iron

Function: Designed for attaching a ³/₈"-16 hanger rod to the bottom flange of a Z-purlin.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL) for up to 4" (100mm) pipe. Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 23 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 23.

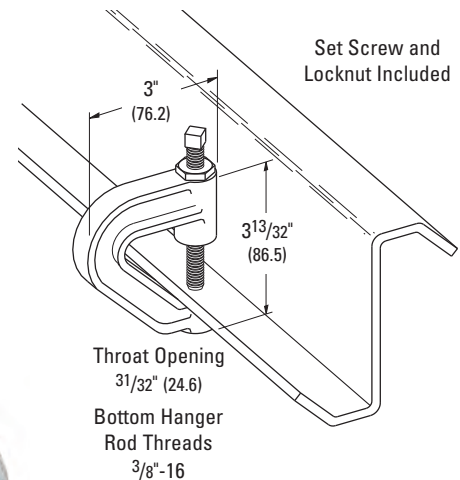
Finish: Plain or Electro-Galvanized

Order By: Part number and finish.

Weight: Approx. Wt./100 90 Lbs. (40.8kg)

Design Load: 400 Lbs. (1.78kN)

Note: See page 27 for recommended setscrew torque.



All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

B3031-3/8 - Light Duty Malleable C-Clamp

Material: Malleable Iron

Function: Designed for attaching a 3/8"-16 hanger rod to the top or bottom flange of a beam or bar joist when setscrew is in the down position as shown.

Approvals: Underwriters Laboratories Listed in the USA (**UL**) and Canada (**cUL**) for up to 4" pipe. Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 19 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 19.

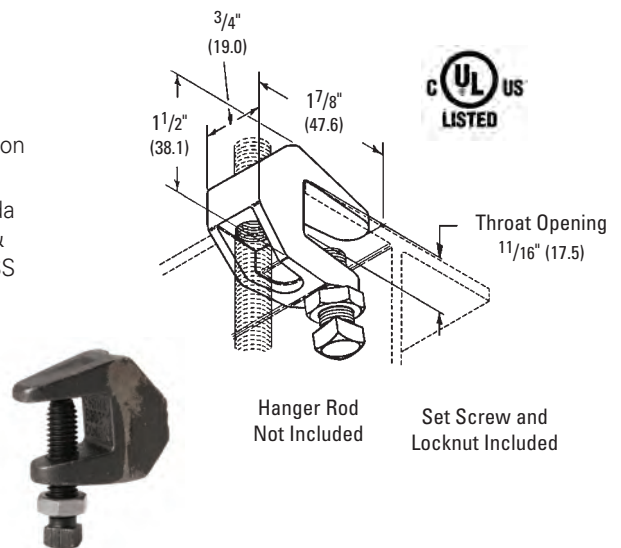
Finish: Plain or Electro-Galvanized

Order By: Part number and finish. When retaining strap is required, order Fig. 69 separately. See Page 37.

Weight: Approx. Wt./100 25 Lbs. (11.3kg)

Design Load: 350 Lbs. (1.55kN)

Note: See page 27 for recommended setscrew torque.



B3033 - Wide Jaw Reversible C-Clamp

Size Range: 3/8"-16 thru 3/4"-10 rod

Material: Cast Malleable Steel with hardened cup point set screw and jam nut

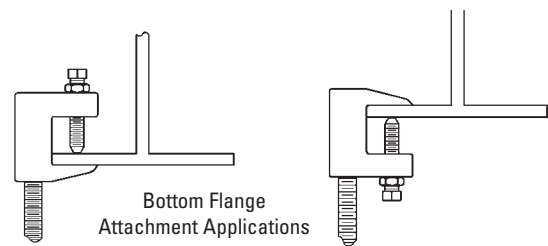
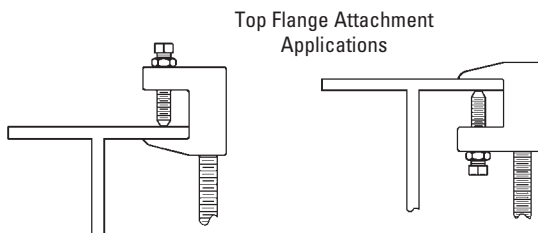
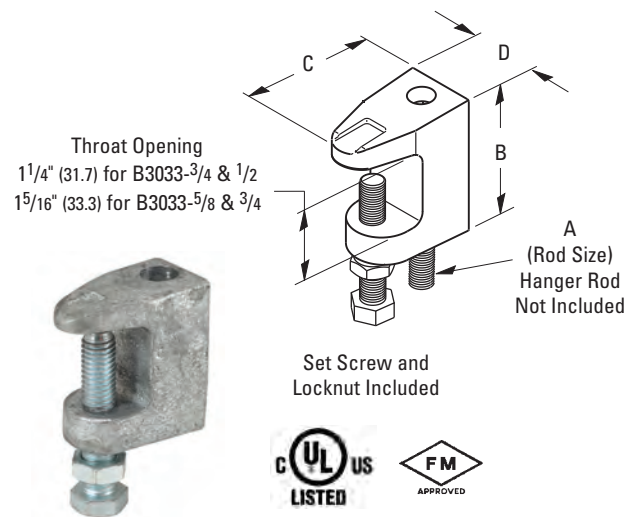
Function: For attachment to structural shapes requiring wider throat especially under roof with bar joist construction. This clamp may be used with the set screw in the up or down position.

Approvals: Underwriters Laboratories Listed in the USA (**UL**) and Canada (**cUL**), and Factory Mutual Engineering Approved (**FM**). Conforms to Federal Specification WW-H-171E Type 19 & A-A-1192A, Type 19 & 23 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 19 & 23.

Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number, rod size and finish

Note: Do not over tighten set screw.



Part No.	Rod Size A	B		C		D	Design Load with Setscrew		Maximum Iron Pipe Size Per UL		Approx. Wt./100 Lbs. (kg)	
		in.	(mm)	in.	(mm)		Lbs.	(kN)	in.	(mm)		
B3033-3/8	3/8"-16	2 1/4"	(57.1)	2"	(50.8)	1 1/8"	(28.6)	500	(2.22)	4"	(100)	54 (24.5)
B3033-1/2	1/2"-13	2 5/16"	(58.7)	2 3/16"	(55.6)	1 1/4"	(31.7)	810	(3.60)	8"	(200)	51 (23.1)
B3033-5/8	5/8"-11	2 5/8"	(66.7)	2 1/2"	(63.5)	1 3/8"	(34.9)	1000	(4.45)	8"	(200)	70 (31.7)
B3033-3/4	3/4"-10	2 11/16"	(68.3)	2 1/2"	(63.5)	1 7/16"	(36.5)	1400	(6.23)	10"	(250)	98 (44.4)

Note: See page 27 for recommended setscrew torque.

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

B3034 - C-Clamp

Size Range: 3/8"-16 thru 3/4"-10 rod

Material: Cast Malleable Steel with hardened cup point set screw and jam nut

Function: Recommended for hanging from steel beam where flange thickness does not exceed 3/4" (19.0mm).

Features: May be used on top or bottom flange of the beam. Beveled lip allows hanging from top flange where clearance is limited. may be installed with the set screw in the up or down position. Offset design permits unlimited rod adjustment by allowing the rod to be threaded completely through the clamp. The rear window design permits inspection of thread engagement.

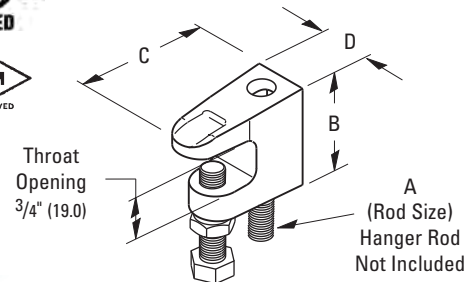
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL), and Factory Mutual Engineering Approved (FM) for 3/8"-16 and 1/2"-13 rod sizes. Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 19 & 23 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 19 & 23. 3/8"-16 is (cULus) Listed to support up to 4" (100mm) pipe with the set screw in the down position, up to 3" (75mm) pipe with the set screw in the up position. 1/2"-13 is (cULus) Listed to support up to 8" (200mm) pipe with the set screw in the down position, up to 6" (150mm) pipe with the set screw in the up position.

Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number and finish



B3034-3/8" and B3034-1/2" sizes
Attach only as shown.

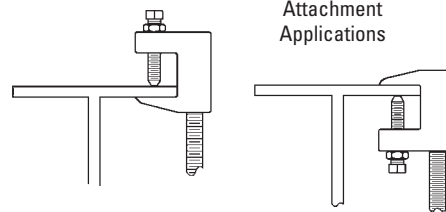


Set Screw and Locknut Included

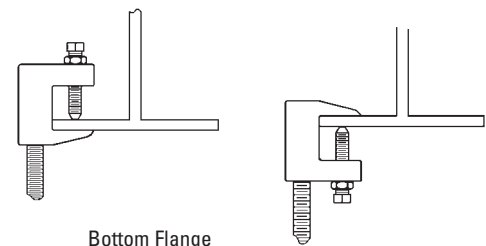


B3034-3/8
Shown

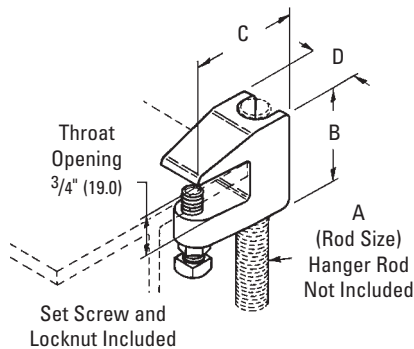
Top Flange
Attachment
Applications



Bottom Flange
Attachment
Applications



B3034-5/8" and B3034-3/4" sizes
Attach only as shown.



Part No.	Rod Size A	B		C		D		Design Load with Setscrew		Maximum Iron Pipe Size Per UL		Approx. Wt./100	
		in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)	in.	(mm)	Lbs.	(kg)
B3034-3/8	3/8"-16	1 5/8"	(41.3)	2"	(50.8)	7/8"	(19.0)	560	(2.49)	4"	(100)	30	(13.6)
B3034-1/2	1/2"-13	1 13/16"	(46.0)	2 3/16"	(55.6)	1 3/16"	(30.2)	810	(3.60)	8"	(200)	47	(21.3)
B3034-5/8	5/8"-11	1 3/4"	(44.5)	2 1/8"	(54.0)	1 1/4"	(31.7)	1000	(4.45)	--	--	58	(26.3)
B3034-3/4	3/4"-10	2"	(50.8)	2 1/4"	(57.2)	1 1/4"	(31.7)	1500	(6.67)	--	--	77	(35.0)

Note: See page 27 for recommended setscrew torque.

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

TOLCO™ Fig. 68S - Reversible Malleable Beam Clamp 3/4" (19.0mm) Throat Opening

TOLCO™ Fig. 68W - Reversible Malleable Beam Clamp 1 1/4" (31.7mm) Throat Opening (bottom of page)

Size Range:

3/8"-16 rod sizes thru 7/8"-9 rod sizes

Material: Cast Malleable Steel with hardened cup point set screw and jam nut

Function: Recommended for hanging from steel beam where flange thickness does not exceed 3/4" (19.0mm) on Fig. 68S or 1 1/4" (31.7mm) on Fig. 68W.

Features: May be used on top or bottom flange of beam. Beveled lip allows hanging from top flange where clearance is limited. May be installed with set screw in up or down position. Offset design permits unlimited rod adjustment by allowing the rod to be threaded completely through the clamp. The rear window design permits inspection of thread engagement.

Approvals: Factory Mutual Engineering Approved (FM). Underwriters Laboratories Listed in the USA (UL) and Canada (cUL), Conforms to Federal Specification WW-H-171E, Type 23 and Manufacturers Standardization Society SP-58, Type 19.

Fig. 68S-3/8 is (cULus) Listed to support up to 4" (100mm) pipe with the set screw in the down position and up to 3" (80mm) pipe with the set screw in the up position.

Fig. 68S-1/2 is (cULus) Listed to support up to 8" (200mm) pipe with the set screw in the down position and up to 6" (150mm) pipe with the set screw in the up position.

Fig. 68W-3/8 is (cULus) Listed to support up to 4" (100mm) pipe with the set screw in the down position and up to 4" (100mm) pipe with the set screw in the up position.

Fig. 68W-1/2 is (cULus) Listed to support up to 6" (150mm) pipe with the set screw in the down position and up to 6" (150mm) pipe with the set screw in the up position.

Factory Mutual Engineering Approved (FM) only with the set screw in the down position.

(OSHPD). For additional load spacing and placement information relating to OSHPD projects, please refer to the Seismic Restraint System Guidelines.

Finish: Plain. Contact customer service for Electro-Galvanized finish.

Order By: Part number and finish

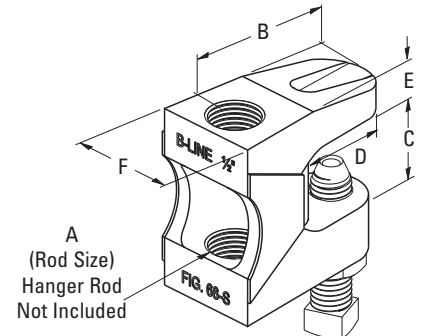


Fig. 68S

Set Screw and Locknut Included

D = Depth of Throat

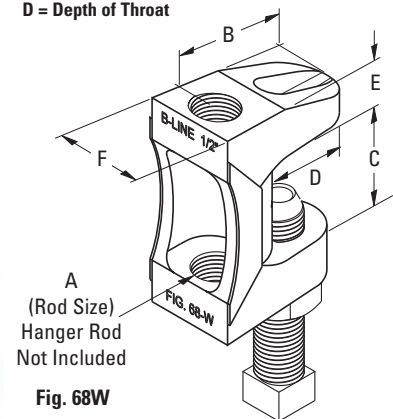


Fig. 68W

Set Screw and Locknut Included

Fig. 68S



Fig. 68W



Fig. 68S

Part No.	Rod Size A	B in. (mm)	C		D in. (mm)	E in. (mm)	F in. (mm)	Max Rec. Load Set Screw Up Lbs. (kN)	Max Rec. Load Set Screw Down Lbs. (kN)	Approx. Wt./100 Lbs. (kg)
			Min. in. (mm)	in. (mm)						
68S-3/8	3/8"-16	19/16" (39.7)	3/4" (19.0)	3/4" (19.0)	1 1/8" (28.6)	7/16" (11.1)	7/8" (22.2)	610 (2.71)	610 (2.71)	32 (14.5)
68S-1/2	1/2"-13	15/8" (41.3)	3/4" (19.0)	3/4" (19.0)	1" (25.4)	7/16" (11.1)	1 1/8" (28.6)	750 (3.33)	1130 (5.02)	54 (24.5)
68S-5/8	5/8"-11	19/16" (39.7)	3/4" (19.0)	3/4" (19.0)	1" (25.4)	9/16" (14.3)	1 1/8" (28.6)	750 (3.33)	1130 (5.02)	50 (22.7)
68S-3/4	3/4"-10	13/4" (44.4)	3/4" (19.0)	3/4" (19.0)	1 1/8" (28.6)	9/16" (14.3)	1 1/4" (31.7)	750 (3.33)	1130 (5.02)	81 (36.7)
68S-7/8	7/8"-9	13/4" (44.4)	3/4" (19.0)	3/4" (19.0)	1 1/8" (28.6)	9/16" (14.3)	1 5/16" (33.3)	750 (3.33)	1130 (5.02)	75 (34.0)

Fig. 68W

Part No.	Rod Size A	B in. (mm)	C		D in. (mm)	E in. (mm)	F in. (mm)	Max Rec. Load Set Screw Up Lbs. (kN)	Max Rec. Load Set Screw Down Lbs. (kN)	Approx. Wt./100 Lbs. (kg)
			Min. in. (mm)	in. (mm)						
68W-3/8	3/8"-16	19/16" (39.7)	1 1/4" (31.7)	1 1/4" (31.7)	1 1/8" (28.6)	7/16" (11.1)	7/8" (22.2)	610 (2.71)	610 (2.71)	41 (18.6)
68W-1/2	1/2"-13	19/16" (39.7)	1 1/4" (31.7)	1 1/4" (31.7)	1" (25.4)	5/8" (15.9)	1 1/8" (28.6)	750 (3.33)	1130 (5.02)	66 (29.9)
68W-5/8	5/8"-11	1 1/2" (38.1)	1 1/4" (31.7)	1 1/4" (31.7)	1" (25.4)	9/16" (14.3)	1 1/8" (28.6)	750 (3.33)	1130 (5.02)	68 (30.8)
68W-3/4	3/4"-10	13/4" (44.4)	1 1/4" (31.7)	1 1/4" (31.7)	1 1/8" (28.6)	3/8" (19.5)	1 1/4" (31.7)	750 (3.33)	1130 (5.02)	110 (49.9)
68W-7/8	7/8"-9	13/4" (44.4)	1 1/4" (31.7)	1 1/4" (31.7)	1 1/8" (28.6)	9/16" (14.3)	1 5/16" (33.3)	750 (3.33)	1130 (5.02)	98 (44.4)

Note: See page 27 for recommended setscrew torque.

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

TOLCO™ Fig. 65 - Reversible Steel C-Type Beam Clamp 3/4" (19.0mm) Throat Opening

TOLCO™ Fig. 65XT - Reversible Steel C-Type Beam Clamp 3/4" (19.0mm) Throat Opening (bottom of page)

Size Range:

Fig. 65 - 1/2"-13 rod sizes, and 5/8"-11 rod sizes

Fig. 65XT - 3/8"-16 rod size (see below)

Material: Steel with hardened cup point set screw and jam nut

Function: Recommended for hanging from steel beam where flange thickness does not exceed 3/4" (19.0mm).

Features: All steel construction eliminates structural deficiencies associated with casting type beam clamps. May be used on top or bottom flange of beam. (Beveled lip allows hanging from top flange where clearance is limited.) May be installed with set screw in up or down position. Offset design permits unlimited rod adjustment by allowing the rod to be threaded completely through the clamp. Open design permits inspection of thread engagement.

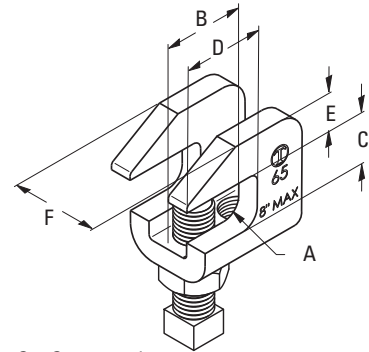
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Exceeds requirements of the National Fire Protection Association (NFPA), pamphlet 13, 3/8"-16 rod will support 1/2" (15mm) thru 4" (100mm) pipe
1/2"-13 rod will support 1/2" (15mm) thru 8" (200mm) pipe
Included in the Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load spacing and placement information relating OSHPD projects, please refer to the Seismic Restraint System Guidelines.

Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number and finish

Fig. 65 Patent #4,570,885

Component of State of California OSHPD Approved Seismic Restraints System



Set Screw and Locknut Included



Part No.	Rod Size A	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)
65-1/2	1/2"-13	1 1/2" (38.1)	3/4" (19.0)	1" (25.4)	9/16" (14.3)
65-5/8	5/8"-11	1 1/2" (38.1)	3/4" (19.0)	1" (25.4)	9/16" (14.3)

Part No.	F in. (mm)	Mac Rec. Load * lbs. (kN)	Approx. Wt./100 lbs. (kg)
65-1/2	1 1/4" (31.7)	1130 (5.02)	55 (24.9)
65-5/8	1 1/4" (31.7)	1130 (5.02)	55 (24.9)

* Maximum loads for clamp with set screw in up or down position.

Note: See page 27 for recommended setscrew torque.

Beam Clamps

Fig. 65XT-3/8 - Beam Clamp

Feature: Extruded holes allow for more thread engagement of threaded rod and set screw.

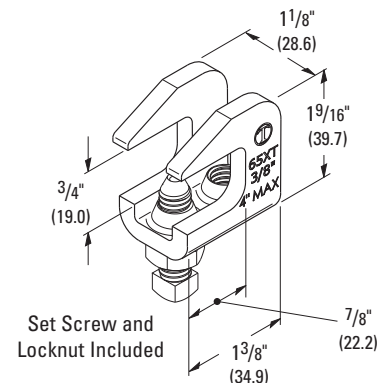
Weight: Approx. Wt./100 - 28.0 Lbs. (12.7kg)

Design Load: 730 Lbs (3.25kN)

Finish: Plain or Electro-Galvanized

Order By: Part number and finish

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL), and Factory Mutual Engineering Approved (FM) for up to 4" (100mm) pipe.



Set Screw and Locknut Included

Note: See page 27 for recommended setscrew torque.

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

TOLCO™ Fig. 66 - Reversible Steel C-Type Beam Clamp 1 1/4" (31.7mm) Throat Opening

Size Range: 3/8"-16, 1/2"-13 rod sizes, and 5/8"-11 rod sizes

Material: Steel with hardened cup point set screw and jam nut

Function: Recommended for hanging from steel beam where flange thickness does not exceed 1 1/4" (31.7mm).

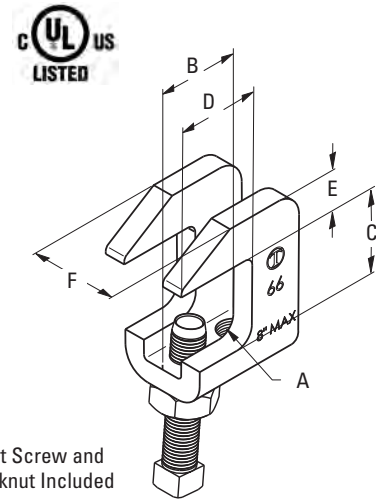
Features: All steel construction eliminates structural deficiencies associated with casting type beam clamps. May be used on top or bottom flange of beam. (Beveled lip allows hanging from top flange where clearance is limited.) May be installed with set screw in up or down position. Offset design permits unlimited rod adjustment by allowing the rod to be threaded completely through the clamp. Open design permits inspection of thread engagement.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Exceeds requirements of the National Fire Protection Association (NFPA), pamphlet 13, 3/8"-16 rod will support 1/2" (15mm) thru 4" (100mm) pipe
1/2"-13 rod will support 1/2" (15mm) thru 8" (200mm) pipe
Included in the Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load spacing and placement information relating OSHPD projects, please refer to the Seismic Restraint System Guidelines.

Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number and finish

Component of State of California OSHPD Approved Seismic Restraints System



Part No.	Rod Size A	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)
66-3/8	3/8"-16	13/16" (30.2)	1 1/4" (31.7)	1" (25.4)	7/16" (11.1)
66-1/2	1/2"-13	1 1/2" (38.1)	1 1/4" (31.7)	1" (25.4)	9/16" (14.3)
66-5/8	5/8"-11	1 1/2" (38.1)	1 1/4" (31.7)	1" (25.4)	9/16" (14.3)

Part No.	F in. (mm)	Mac Rec. Load * lbs. (kN)	Approx. Wt./100 lbs. (kg)
66-3/8	1" (25.4)	610 (2.71)	28 (12.7)
66-1/2	1 1/4" (31.7)	1130 (5.02)	55 (24.9)
66-5/8	1 1/4" (31.7)	1130 (5.02)	55 (24.9)

* Maximum loads for clamp with set screw in up or down position.

Note: See page 27 for recommended setscrew torque.

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

TOLCO™ Fig. 67SS - Stainless Steel Reversible C-Type Beam Clamp 3/4" (19.0mm) Throat Opening

TOLCO™ Fig. 68SS - Stainless Steel Reversible C-Type Beam Clamp Wide Mouth

Size Range: 3/8"-16 and 1/2"-13 rod sizes

Material: Stainless Steel (Type 316 or 304)

Function: Recommended for hanging from steel beams where flange thickness does not exceed 3/4" (19.0mm) for Fig. 67SS or 1 1/4" (31.7mm) for Fig. 68SS.

Features: All steel construction eliminates structural deficiencies associated with casting type beam clamps. May be used on top or bottom flange of beam. May be installed with set screw in up or down position. Offset design permits unlimited rod adjustment by allowing the rod to be threaded completely through the clamp.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Conforms to Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 19. Meets or exceeds requirements of the National Fire Protection Association (NFPA), pamphlet 13.

3/8"-16 rod will support 1/2" (15mm) thru 4" (100mm) pipe

1/2"-13 rod will support 1/2" (15mm) thru 8" (200mm) pipe

Order By: Part number and stainless steel type.

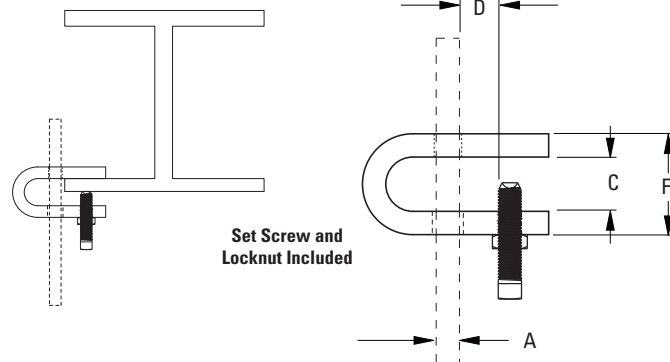
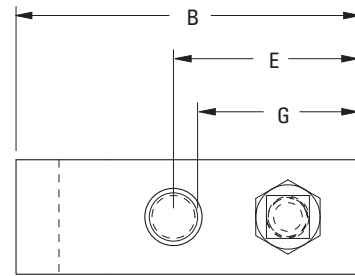


Fig. 67SS

Part No.	Rod Size A	Pipe Size		B		C		D		E	
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
67SS-3/8	3/8"-16	1/2" - 4"	(15 - 100)	3"	(76.2)	7/8"	(22.2)	1"	(25.4)	1 5/8"	(41.3)
67SS-1/2	1/2"-13	5" - 8"	(125 - 200)	3"	(76.2)	7/8"	(22.2)	1"	(25.4)	1 5/8"	(41.3)

Part No.	F		G		Test Load		Approx. Wt./100	
	in.	(mm)	in.	(mm)	lbs.	(kN)	lbs.	(kg)
67SS-3/8	1 5/8"	(41.3)	1 1/8"	(28.6)	1500	(6.67)	84	(38.1)
67SS-1/2	1 5/8"	(41.3)	1 1/8"	(28.6)	4050	(18.01)	170	(77.1)



Fig. 68SS *

Part No.	Rod Size A	Pipe Size		B		C		D		E	
		in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
68SS-3/8	3/8"-16	1/2" - 4"	(15 - 100)	2 1/16"	(52.4)	1 1/8"	(28.6)	3/4"	(19.0)	1 1/4"	(31.7)
68SS-1/2	1/2"-13	5" - 8"	(125 - 200)	2 1/4"	(57.1)	1 1/4"	(31.7)	1 3/16"	(20.6)	1 1/4"	(31.7)

Part No.	F		Test Load		Approx. Wt./100	
	in.	(mm)	lbs.	(kN)	lbs.	(kg)
68SS-3/8	2"	(50.8)	1500	(6.67)	84	(38.1)
68SS-1/2	2 1/4"	(57.1)	4050	(18.01)	170	(77.1)



* Fig. 68SS minimum order quantity of 30 pieces.

Note: See page 27 for recommended setscrew torque.

B303-B309 - Beam Clamps

Size Range: 1/4"-20 thru 5/8"-11 rod

Material: Steel

Function: Designed for attaching a hanger rod to the flange of a beam.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 19 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 19.

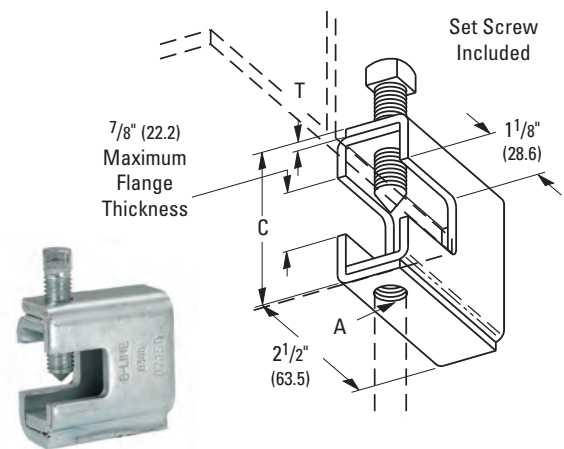
Finish: Electro-Galvanized or Hot-Dip Galvanized

Order By: Part number and finish. When retaining strap is required, order B312 separately. See page 39.

Recommended Set Screw Torque:

3/8"-16 = 150 in-lbs (16.9 N•m)

1/2"-13 = 350 in-lbs (39.5 N•m)



Part No.	Rod Size A	Setscrew Size	C		T		Design Load		Approx. Wt./100	
			in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B303	1/4"-20	3/8"-16	2 ⁵ / ₁₆ "	(58.7)	11 Ga.	(3.0)	400	(1.78)	72	(32.6)
B304	5/16"-18	3/8"-16	2 ⁵ / ₁₆ "	(58.7)	11 Ga.	(3.0)	600	(2.67)	72	(32.6)
B305	3/8"-16	3/8"-16	2 ⁵ / ₁₆ "	(58.7)	11 Ga.	(3.0)	600	(2.67)	72	(32.6)
B306	3/8"-16	1/2"-13	2 ⁷ / ₁₆ "	(61.9)	7 Ga.	(4.5)	1100	(4.89)	97	(44.0)
B307	1/2"-13	1/2"-13	2 ⁷ / ₁₆ "	(61.9)	7 Ga.	(4.5)	1100	(4.89)	97	(44.0)
B308	1/2"-13	1/2"-13	2 ⁹ / ₁₆ "	(65.1)	1/4"	(6.3)	1500	(6.67)	133	(60.3)
B309	5/8"-11	1/2"-13	2 ⁹ / ₁₆ "	(65.1)	1/4"	(6.3)	1500	(6.67)	133	(60.3)

Fig. B321 - Series Beam Clamps

Size Range: 3/8"-16 thru 3/4"-10 rod

Material: Steel

Function: Designed for attaching a hanger rod to the flange of a beam.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 19 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 19.

Finish: Electro-Galvanized or Hot-Dip Galvanized

Ordering: Part number and finish. When retaining strap is required, order B312 separately. See page 39.

Recommended Set Screw Torque:

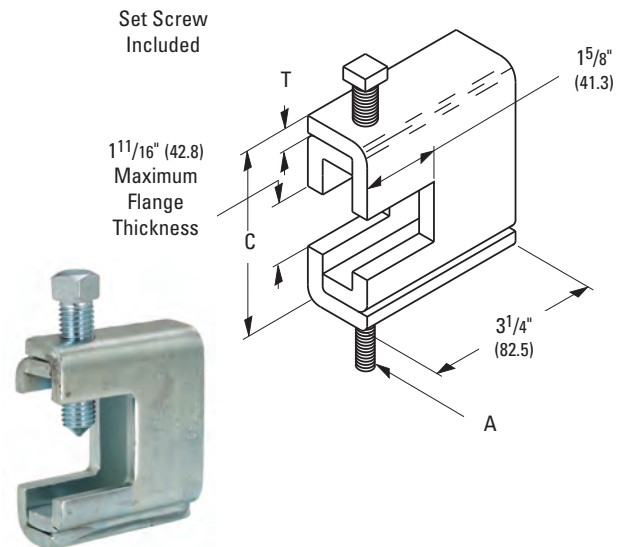
1/2"-13 = 350 in-lbs (39.5 N•m)

5/8"-11 = 700 in-lbs (79.0 N•m)

Minimum Flange Thickness:

For B321-1 thru B321-3 = 3/8" (9.5)

For B321-4 & B321-5 = 5/8" (15.9)



Part No.	Rod Size A	Setscrew Size	C		T		Design Load		Approx. Wt./100	
			in.	(mm)	in.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B321-1	3/8"-16	1/2"-13	3 ⁹ / ₁₆ "	(92.1)	1/4"	(6.3)	1300	(5.78)	187	(84.8)
B321-2	1/2"-13	1/2"-13	3 ⁹ / ₁₆ "	(92.1)	1/4"	(6.3)	1400	(6.23)	186	(84.3)
B321-3	5/8"-11	1/2"-13	3 ⁹ / ₁₆ "	(92.1)	1/4"	(6.3)	1600	(7.12)	185	(83.9)
B321-4	5/8"-11	5/8"-11	3 ²³ / ₃₂ "	(94.4)	5/16"	(7.9)	1800	(8.00)	239	(108.4)
B321-5	3/4"-10	5/8"-11	3 ²³ / ₃₂ "	(94.4)	5/16"	(7.9)	2000	(8.89)	238	(107.9)

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

TOLCO™ Fig. 69 - Beam Clamp Retaining Strap

Size Range: 3/8"-16 thru 3/4"-10 rod
 4" (101.6mm) thru 16" (406.4mm) lengths
 Note: longer lengths are available consult factory

Material: Pre-Galvanized Steel

Function: To offer more secure fastening of various types of beam clamps to beam where danger of movement might be expected. NFPA 13 requires the use of retaining straps with all beam clamps installed in earthquake areas. Satisfies requirements of NFPA 13.

Important Note: Good installation practice of a retaining strap requires that the strap be held tightly and securely to all component parts of the assembly. Therefore a locking mechanism of some kind, such as a hex nut or the beveled locking slot of the Fig. 69R will provide a more secure reliable installation.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved for use with any listed beam clamp. Included in the Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load spacing and placement information relating OSHPD projects, please refer to the Seismic Restraint System Guidelines.

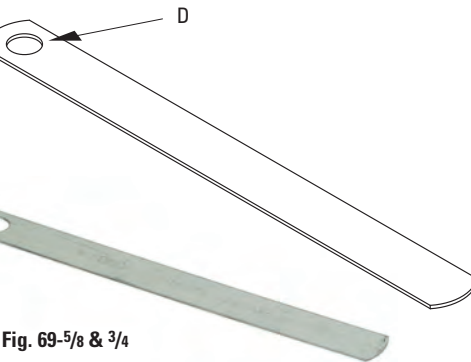
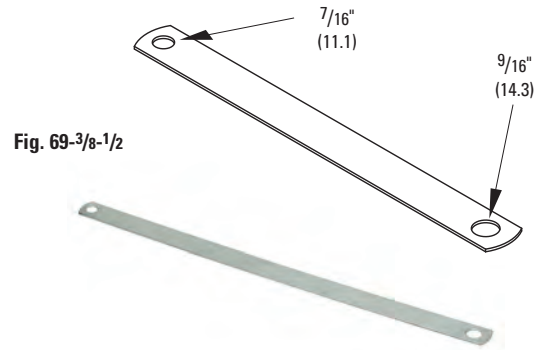
Finish: Pre-Galvanized

Order By: Part number, length (L), and finish.

Notes: Minimum return on strap is 1" (25.4mm)
 Lengths over 16" (406mm) are not UL Listed

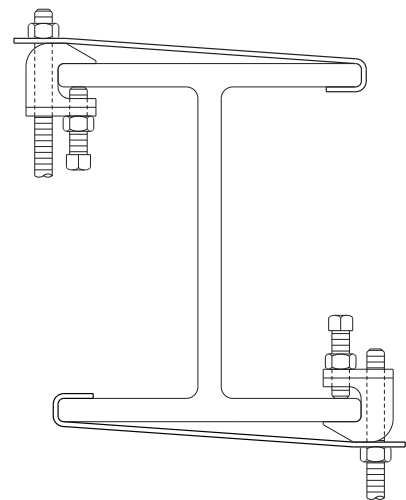


Component of State of California OSHPD Approved Seismic Restraints System



Beam Clamps

Part No.	Hole Dia. D		For Use With	Length
	in.	(mm)		
69-3/8-1/2-L	see drawing		B3033-3/8, B3034-3/8, B3031-3/8, 65-3/8, 65XT-3/8, 66-3/8 B3033-1/2, B3034-1/2, 65-1/2, 66-1/2	Specify
69-5/8-L	11/16"	(17.5)	B3033-5/8, 65-5/8, 66-5/8	Specify
69-3/4-L	13/16"	(20.6)	B3033-3/4	Specify



All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

TOLCO™ Fig. 69R - Retrofit Capable Beam Clamp Retaining Strap

Size Range: 3/8"-16 & 1/2"-13 rod
 4" (101.6mm) thru 16" (406.4mm) lengths
 Note: longer lengths are available consult factory



Component of State of California OSHPD Approved Seismic Restraints System

Material: Pre-Galvanized Steel

Function: To offer more secure fastening of various types of beam clamps to beam where danger of movement might be expected. NFPA 13 requires the use of retaining straps with all beam clamps installed in earthquake areas. Satisfies requirements of NFPA 13.

Features: Beveled locking slot* is precisely formed to align with the threaded section of a hanger rod or set screw and engage the unit securely. May be used as shown in Section "A-A" or inverted. Allows easy installation for new construction or retrofit applications.

Important Note: Good installation practice of a retaining strap requires that the strap be held tightly and securely to all component parts of the assembly. Therefore a locking mechanism of some kind, such as a hex nut or the beveled locking slot of the Fig. 69R will provide a more secure reliable installation.

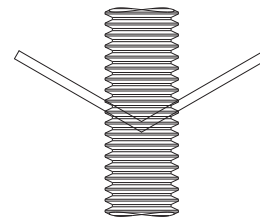
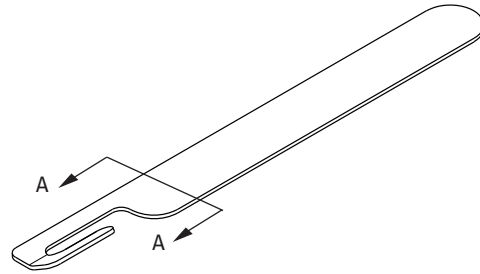
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved for use with any listed beam clamp. Included in the Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load spacing and placement information relating OSHPD projects, please refer to the Seismic Restraint System Guidelines.

Finish: Pre-Galvanized

Order By: Part number, length, and finish.

Note: Minimum return on strap is 1" (25.4mm)

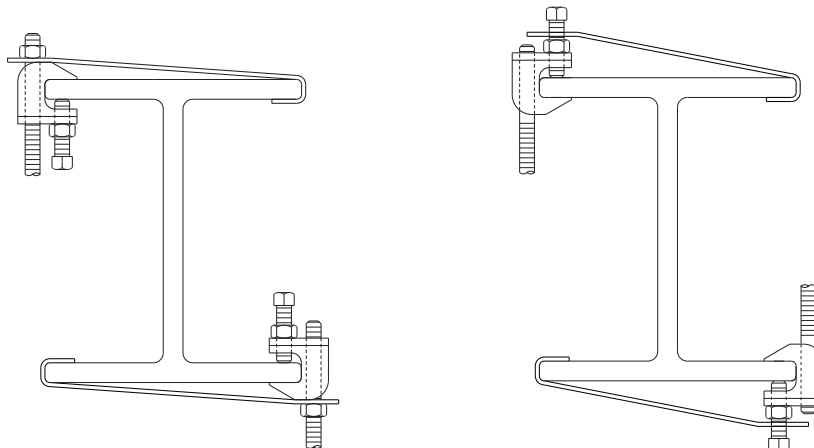
* Patent #5,947,424



A - A



Part No.	Slot Width in. (mm)	For Use With	Length
69R-3/8-L	7/16" (11.1)	B3033-3/8, B3034-3/8, B3031-3/8, 65-3/8, 65XT-3/8, 66-3/8	Specify
69R-1/2-L	9/16" (14.3)	B3033-1/2, B3034-1/2, 65-1/2, 66-1/2	Specify



All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

B312 - Retaining Strap

Size Range: 9" (228.6mm) to 18" (457.2mm) strap lengths

Material: Steel

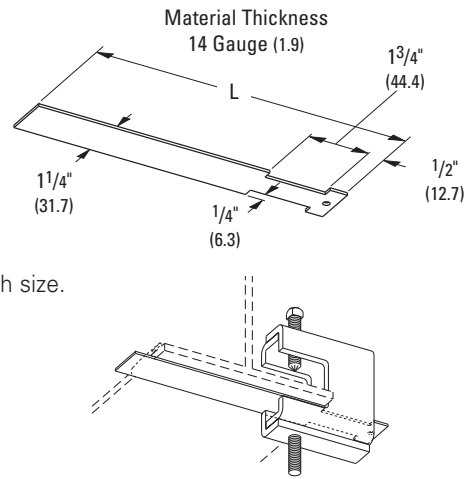
Function: Designed for use with B303-B309 and B321 beam clamps.

Finish: Pre-Galvanized

Order By: Part number and finish.

Notes:

Maximum beam thickness $\frac{3}{4}$ " (19.0). For thicker beams step up one flange width size. Requires field forming on beam.



Part No.	For Flange With		L		Approx. Wt./100	
	in.	(mm)	in.	(mm)	Lbs.	kg
B312-6	6"	(152.4)	9"	(228.6)	22	(10.0)
B312-9	9"	(228.6)	12"	(304.8)	30	(13.6)
B312-12	12"	(304.8)	15"	(381.0)	40	(18.1)
B312-15	15"	(381.0)	18"	(457.2)	49	(22.2)

Beam Clamps

B3040 - Adjustable Beam Clamp

Size Range: $\frac{3}{8}$ "-16 thru $\frac{3}{4}$ "-10 rod

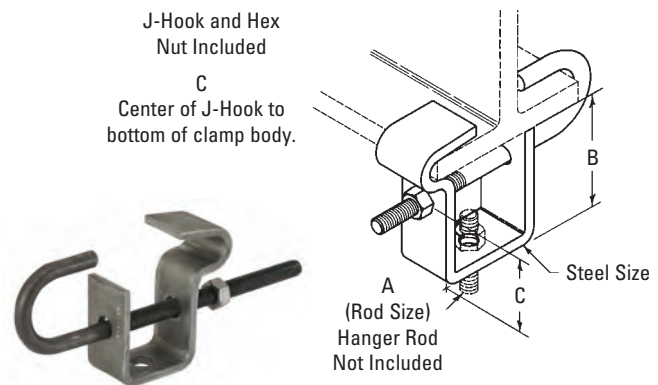
Material: Steel

Function: Fits structural I-Beams and wide flange beams, flange widths $3\frac{1}{2}$ " (88.9mm) to 8" (203.2mm), thickness up to $\frac{1}{2}$ " (12.7mm).

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 54, and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 27.

Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number and finish



Part No.	Rod Size	B		C		Steel Size		Design Load	Approx. Wt./100
	A	in.	(mm)	in.	(mm)	in.	(mm)		
B3040- $\frac{3}{8}$	$\frac{3}{8}$ "-16	$2\frac{3}{4}$ "	(69.8)	$1\frac{3}{16}$ "	(46.0)	$1\frac{1}{4}$ " x $1\frac{1}{4}$ "	(6.3 x 31.7)	300 (1.33)	120 (54.4)
B3040- $\frac{1}{2}$	$\frac{1}{2}$ "-13	$2\frac{3}{4}$ "	(69.8)	$1\frac{3}{4}$ "	(44.4)	$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	(6.3 x 38.1)	700 (3.11)	160 (72.6)
B3040- $\frac{5}{8}$	$\frac{5}{8}$ "-11	3"	(76.2)	$1\frac{3}{4}$ "	(44.4)	$1\frac{1}{4}$ " x $1\frac{3}{4}$ "	(6.3 x 44.4)	1000 (4.45)	216 (98.0)
B3040- $\frac{3}{4}$	$\frac{3}{4}$ "-10	$3\frac{3}{8}$ "	(85.7)	$1\frac{7}{8}$ "	(47.6)	$\frac{3}{8}$ " x 2"	(9.5 x 50.8)	1800 (8.00)	442 (200.5)

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

B3050 - Beam Clamp

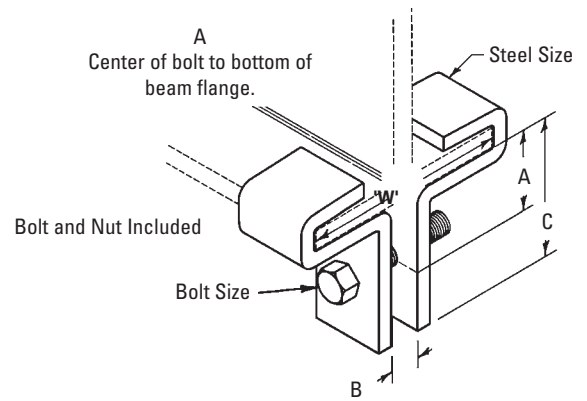
Material: Steel

Function: Recommended for the suspending of hanger rod from the center of an I-beam, equally distributing the load on both sides of the beam. Use with B3210 eye rod, B3211 welded eye rod or B3200 weldless rye nut.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 21 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 21.

Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number, type, width of flange and finish.



Part Number & Size	Bolt Size	Flange Thickness		A	B	C	Steel Size	Design Load
		Min. in. (mm)	Max. in. (mm)					
B3050-2X*	1/2"-13	3/16" (4.8)	1/2" (12.7)	1 3/8" (34.9)	5/8" (15.9)	2 1/8" (54.0)	1/4" x 1 1/4" (6.3 x 31.7)	1000 (3.11)
B3050-5X*	3/4"-10	5/8" (25.9)	1" (25.4)	1 7/8" (47.6)	7/8" (22.2)	3" (76.2)	1/2" x 2" (12.7 x 50.8)	3000 (6.67)

* Any flange width shown in bottom chart.

Flange Width *	'W' in. (mm)	Approx. Wt./100 For Beam Clamp Size	
		2 lbs. (kg)	5 lbs. (kg)
4	4" (101.6)	116 (52.6)	429 (194.6)
5	5" (127.0)	125 (56.7)	458 (207.8)
6	6" (152.4)	134 (60.8)	486 (220.5)
7	7" (177.8)	143 (64.9)	514 (233.2)
8	8" (203.2)	152 (69.0)	543 (246.3)
9	9" (228.6)	160 (72.6)	571 (259.0)
10	10" (254.0)	169 (76.7)	599 (271.8)
12	12" (304.8)	187 (84.8)	656 (297.6)



All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

B3055 - Steel Beam Clamp

Size Range: 3/8"-16 thru 1"-8 rod

Material: Steel

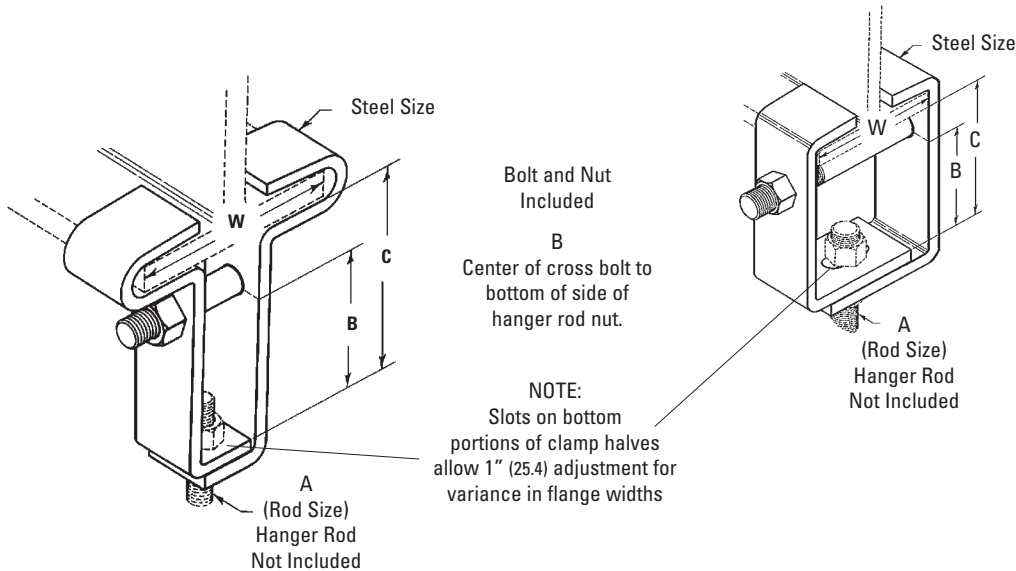
Function: Designed for attaching a hanger rod to be centered under beam flanges. 2" (50.8mm) vertical adjustment is provided in the clamp.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 21 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 21.

Finish: Plain or Electro-Galvanized

Order By: Part number, flange width, and finish.

Note: Consult factory for additional flange widths.



Note:
Box Style
Furnished For
 B3055-3/8 x 4"
 B3055-1/2 x 4"
 B3055-5/8 x 4"
 B3055-3/4 x 4"
 B3055-7/8 x 4"
 B3055-1 x 4"
 B3055-1 x 5"
 B3055-1 x 6"

Part No.	Rod Size	B		C		Steel Size		Design Load	
	A	in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kN)
B3055-3/8	3/8"-16	3"	(76.2)	4"	(101.6)	1/4" x 1 1/4"	(6.3 x 31.7)	550	(2.44)
B3055-1/2	1/2"-13	3"	(76.2)	4"	(101.6)	1/4" x 1 1/2"	(6.3 x 38.1)	850	(3.78)
B3055-5/8	5/8"-11	3 1/4"	(82.5)	4 1/2"	(114.3)	3/8" x 1 1/2"	(9.5 x 38.1)	1100	(4.89)
B3055-3/4	3/4"-10	3 1/4"	(82.5)	4 1/2"	(114.3)	3/8" x 2"	(9.5 x 50.8)	1500	(6.67)
B3055-7/8	7/8"-9	3 1/2"	(88.9)	5"	(127.0)	1/2" x 2"	(12.7 x 50.8)	2600	(11.56)
B3055-1	1"-8	3 1/2"	(88.9)	5 1/2"	(139.7)	1/2" x 2"	(12.7 x 50.8)	4300	(19.12)

Flange Width W		Approximate Wt./100 For Beam Clamp Size Lbs. (kg)							
in.	(mm)	B3055-3/8"	B3055-1/2"	B3055-5/8"	B3055-3/4"	B3055-7/8"	B3055-1"		
4"	(101.6)	168 (76.2)	201 (91.2)	328 (148.8)	434 (196.8)	657 (298.0)	797 (361.5)		
5"	(127.0)	181 (82.1)	217 (98.4)	352 (159.6)	466 (211.4)	667 (302.5)	824 (373.7)		
6"	(152.4)	193 (87.5)	231 (104.8)	373 (169.2)	495 (224.5)	705 (319.8)	877 (397.8)		
7"	(177.8)	205 (93.0)	246 (111.6)	395 (179.2)	525 (238.1)	744 (337.5)	926 (420.0)		
8"	(203.2)	214 (97.1)	256 (116.1)	411 (186.4)	546 (247.6)	773 (350.6)	962 (436.3)		
10"	(254.0)	235 (106.6)	282 (127.9)	449 (203.6)	596 (270.3)	840 (381.0)	1046 (474.4)		
12"	(304.8)	259 (117.5)	311 (141.0)	493 (223.6)	655 (297.1)	918 (416.4)	1143 (518.4)		

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

B3054 - Malleable Iron Beam Clamp With Extension B3054WO - Malleable Iron Beam Clamp Without Extension

Size Range: 3/8"-16 thru 7/8"-9 rod

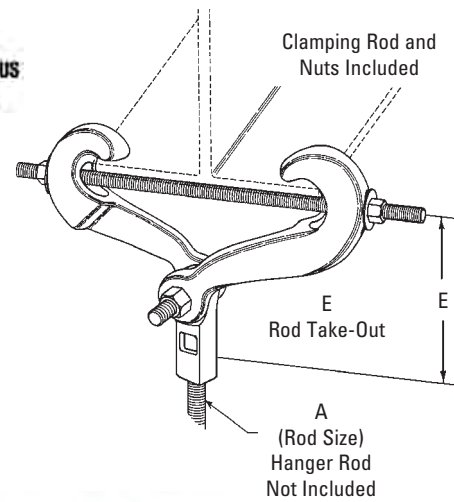
Material: Malleable Iron

Function: Designed for attaching a hanger rod to the bottom flange of a beam. Adjustable for flange widths of 3" (76.2mm) to 7" (177.8mm) and a flange thickness of no greater than 5/8" (15.9mm).

Approvals: Underwriters Laboratories Listed. Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 30 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 30.

Finish: Plain or Electro-Galvanized

Ordering: Part number and finish



B3054WO



B3054-Rod Size

Part No.	Rod Size A	Rod Take Out 'E' For Beam Flange Width Of in. (mm)				
		3" (76.2)	4" (101.6)	5" (127.0)	6" (152.4)	7" (177.8)
B3054-3/8	3/8"-16	4 1/16" (119.1)	4 9/16" (115.9)	4 5/8" (117.5)	4" (101.6)	3 1/8" (79.4)
B3054-1/2	1/2"-13	4 13/16" (122.2)	4 1/2" (114.3)	4 5/16" (109.5)	3 15/16" (100.0)	3 1/4" (82.5)
B3054-5/8	5/8"-11	4 7/8" (123.8)	4 5/8" (117.5)	4 3/8" (111.1)	3 3/4" (95.2)	3 5/16" (84.1)
B3054-3/4	3/4"-10	5 1/8" (130.2)	5" (127.0)	4 5/8" (117.5)	4 1/4" (107.9)	3 3/4" (95.2)
B3054-7/8	7/8"-9	5 3/16" (131.8)	4 7/8" (123.8)	4 11/16" (119.1)	4 5/16" (109.5)	3 3/4" (95.2)

Part No.	Design Load		Max. Iron Pipe Size Per UL in. (mm)	Approx. Wt./100	
	Lbs.	(kN)		Lbs.	(kg)
B3054-3/8	730	(3.25)	4" (100)	236	(107.0)
B3054-1/2	1350	(6.00)	8" (200)	254	(115.2)
B3054-5/8	1365	(6.07)	10" (250)	260	(117.9)
B3054-3/4	1365	(6.07)	10" (250)	278	(126.1)
B3054-7/8	1365	(6.07)	10" (250)	292	(132.4)

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

B3291, B3292, B3293, B3294, B3295, B3296, B3297, B3298

UFS Beam Clamp With Weldless Eye Nut

Available with left hand threads by adding an L to part number Example: B3291L-*

Size Range: 3/8"-16 thru 2"-4 1/2 rod

Material: Forged Steel

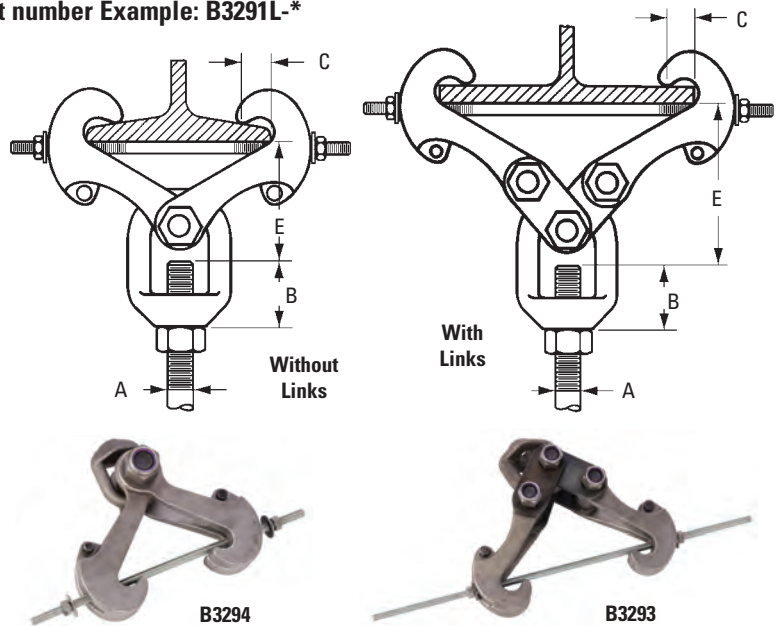
Function: Designed for attaching a hanger rod to the bottom flange of a beam. Adjustable from flange widths of 3" (76.2mm) to 15" (381.0mm). and flange thickness of no greater than 1 1/32" (26.2mm).

Approvals: Complies with Federal Specification WW-H-171E & A-A-1192A (Type 28 without links; Type 29 with links.) and ANSI/MSS SP-58 (Type 28 without links; Type 29 with links).

Finish: Plain or Electro-Galvanized

Order By: Part number, rod size and finish.

Note: Design load for B3291 thru B3295 based on maximum rod size shown. Use the appropriate all threaded rod design load shown on page 313 for sizes less than maximum.



Part No. *Rod Size	Maximum Beam Flange Thickness		Rod Size A (Specify) *	B		C		Design Load		Approx. Wt./100	
	In.	(mm)		In.	(mm)	In.	(mm)	Lbs.	(kN)	Lbs.	(kg)
B3291-*	.60	(15.2)	3/8"-16, 1/2"-13, 5/8"-11, 3/4"-10	1 1/4"	(31.7)	1 1/8"	(28.6)	3230	(14.36)	390	(176.9)
B3292-*	.60	(15.2)	7/8"-9, 1"-8	1 1/16"	(42.9)	1 1/8"	(28.6)	5900	(26.24)	915	(415.0)
B3293-*	.60	(15.2)	3/8"-16, 1/2"-13, 5/8"-11, 3/4"-10, 7/8"-9, 1"-8	1 1/16"	(42.9)	1 1/8"	(28.6)	5900	(26.24)	1300	(589.6)
B3294-*	1.031	(26.2)	7/8"-9, 1"-8	1 1/2"	(38.1)	1 1/8"	(28.6)	5900	(26.24)	2165	(982.0)
B3295-*	1.031	(26.2)	7/8"-9, 1"-8	1 1/2"	(38.1)	1 1/8"	(28.6)	5900	(26.24)	3385	(1535.4)
B3296-*	1.031	(26.2)	1"-8, 1 1/8"-7, 1 1/4"-7, 1 1/2"-6	2 1/8"	(54.0)	1 1/8"	(28.6)	11500	(51.15)	2390	(1084.1)
B3297-*	1.031	(26.2)	1 1/8"-7, 1 1/4"-7, 1 1/2"-6	2 1/8"	(54.0)	1 1/8"	(28.6)	11500	(51.15)	3575	(1621.6)
B3298-*	1.031	(26.2)	1 3/4"-5, 2"-4 1/2	4 9/16"	(115.9)	1 1/8"	(28.6)	11500	(51.15)	3675	(1666.9)

'E' Rod Take-Out For Flange Width

Part No.	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"	15"
B3291-*	4 1/2"	5 5/16"	4 1/16"	3 5/8"	2 7/8"	--	--	--	--	--	--	--	--
B3292-*	--	4 3/4"	4 7/16"	4 1/16"	3 3/8"	--	--	--	--	--	--	--	--
B3293-*	--	--	--	--	5 15/16"	6"	5 5/16"	5"	--	--	--	--	--
B3294-*	--	6 13/16"	6 5/8"	6 3/8"	5 7/8"	5 7/8"	5 3/8"	4 13/16"	--	--	--	--	--
B3295-*	--	--	--	--	--	--	--	--	8 1/8"	7 3/4"	7 1/8"	6 5/8"	6 1/16"
B3296-*	--	7 3/16"	7"	6 3/4"	6 1/4"	6 5/16"	5 13/16"	5 3/16"	--	--	--	--	--
B3297-*	--	--	--	--	--	--	--	--	8 1/2"	8 1/8"	7 1/2"	7"	6 7/16"
B3298-*	--	8 3/8"	8 7/16"	8 3/16"	7 3/4"	7 3/4"	7 1/4"	6 5/8"	--	--	--	--	--

To determine (mm) in the above chart, multiply inches by 25.4.

* Rod Size required to finish part number (see Rod Size 'A' in top chart).

Δ These part numbers are furnished with links.

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

B3042 - Top Beam Hook

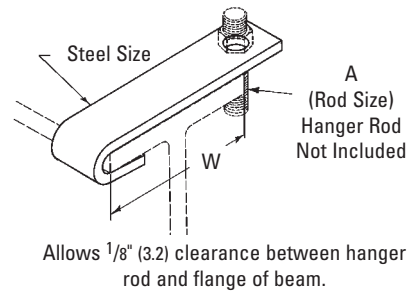
Size Range: 3/8"-16 and 1/2"-13 rod

Material: Steel

Function: Designed for attaching hanger rod to the top flange of a beam or angle truss. The support rod completes assembly and secures it to the flange.

Finish: Plain or Electro-Galvanized

Order By: Part number flange width, flange thickness and finish.



Part No.	A	For Pipe Size		Design Load	
		in.	(mm)	Lbs.	(kN)
B3042-3/8	3/8"-16	3/4"-2"	(20-50)	300	(1.33)
B3042-1/2	1/2"-13	2 1/2"-3 1/2"	(65-90)	500	(2.22)

Part No.	Approximate Wt./100 Lbs. (kg) For Width of Beam Flange 'W'			
	4" (101.6)	6" (152.4)	8" (203.2)	12" (304.8)
B3042-3/8	47 (21.3)	62 (28.1)	72 (32.6)	108 (49.0)
B3042-1/2	65 (29.5)	86 (39.0)	105 (47.6)	146 (66.2)

B3045 - Side Beam Clamp

Size Range: 3/8"-16 thru 7/8"-9 rods
3" (76.2mm) thru 9" (228.6mm) flange widths

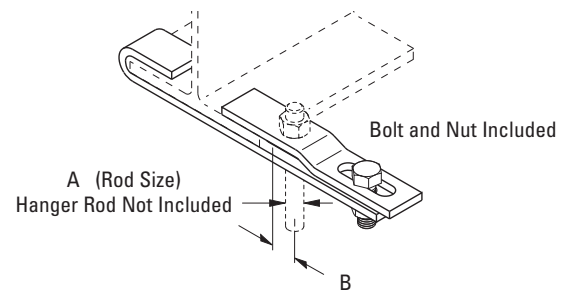
Material: Steel

Function: Designed for attaching hanger rod to the side of a beam flange. Works on top or bottom of beam.

Approvals: Conforms to Federal Specification WW-H-171E & A-A-1192A, Type 53 and Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58, Type 25.

Finish: Plain or Electro-Galvanized

Order By: Part number, flange width and thickness, and finish.



Part No.	Rod Size A	B		Flange Width		Design Load	
		in.	(mm)	in.	(mm)	Lbs.	(kN)
B3045-3/8	3/8"-16	2 1/16"	(52.4)	3" - 9"	(76.2 - 228.6)	300	(1.33)
B3045-1/2	1/2"-13	2 5/16"	(58.7)	3" - 9"	(76.2 - 228.6)	500	(2.22)
B3045-5/8	5/8"-11	2 7/16"	(61.9)	3" - 9"	(76.2 - 228.6)	700	(3.11)

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.

Beam Clamps

B3042T - Bar Joist Hanger

Size Range: 3/8"-16 and 1/2"-13 rod

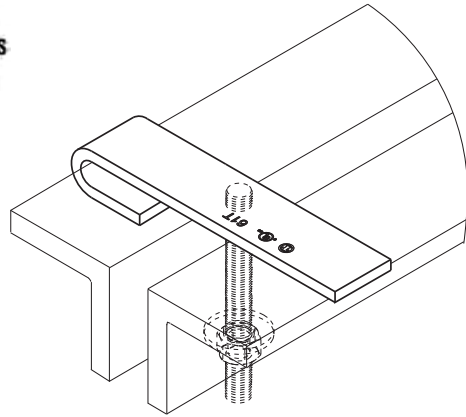
Material: Steel

Function: Designed to hook on top chord of metal bar joist. Hanger rod is threaded into product and secured with a washer and nut.

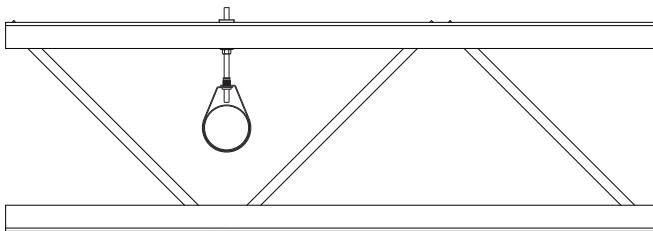
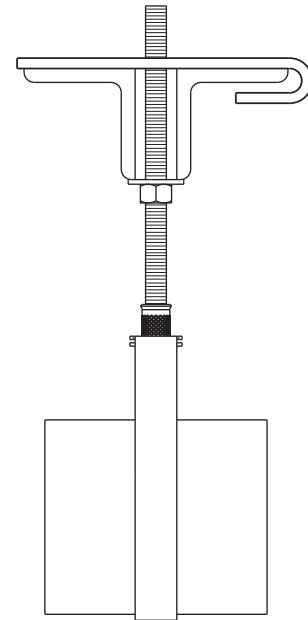
Approvals: Underwriters Laboratories Listed in the USA (**UL**) and Canada (**cUL**) for up to 4" (100mm) pipe with 3/8"-16 rod, up to 6" (150mm) pipe with 1/2"-13 rod.

Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number, width and thickness of bar joist, and finish.



Part No.	Rod Size Size	For Pipe Size in. (mm)	Design Load Lbs. (kN)	Approx. Wt./100 Lbs. (kg)
B3042T-3/8	3/8"-16	Up to 4" (up to 100)	300 (1.33)	50.6 (22.9)
B3042T-1/2	1/2"-13	6" (150)	600 (2.67)	50.0 (22.7)



TOLCO™ Fig. 130 - Trus Joist Beam Clamp

Size Range: 130-1 = TJI 35
 130-2 = —
 130-3 = TJI 25
 130-4 = TJI 55 & 65
 130-5 = TJI 75
 130-6 = TJI 96

Material: Steel

Function: Designed for attachment to trus joist beams. Use with B3210 Series eye rods.

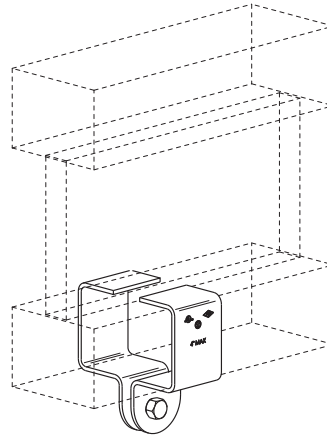
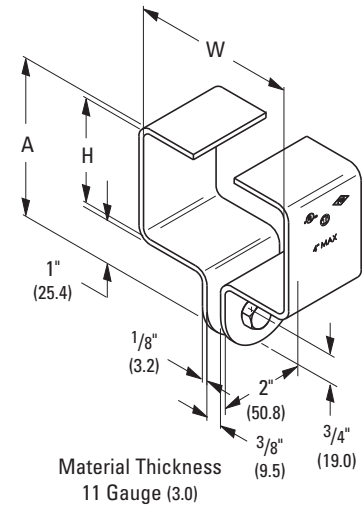
Approvals: Sizes 1 - 6 are Underwriters Laboratories Listed in the USA (UL) and Canada (cUL) list through 4" (100mm) pipe. All Fig. 130 Beam Clamps meet requirements of Factory Mutual Engineering and NFPA 13, through 4" (100mm) pipe.

Finish: Electro-Galvanized or Hot-Dip Galvanized

Order By: Part number and finish.



Hardware Included



Beam Clamps

Part No.	Hardware Size	A		H		W		Approx. Wt./100	
		in.	(mm)	in.	(mm)	in.	(mm)	Lbs.	(kg)
130-1	3/8"-16	3 1/4"	(82.5)	1 1/2"	(38.1)	2 5/16"	(58.7)	65	(29.5)
130-2	3/8"-16	3 1/2"	(88.9)	1 3/4"	(44.4)	2 1/2"	(63.5)	70	(31.7)
130-3	3/8"-16	3 1/4"	(82.5)	1 1/2"	(38.1)	1 3/4"	(44.4)	58	(26.3)
130-4	3/8"-16	3 1/2"	(88.9)	1 1/2"	(38.1)	3 1/2"	(88.9)	83	(37.6)
130-5†	1/2"-13	3 5/8"	(92.1)	1 3/4"	(44.4)	3 1/2"	(88.9)	86	(39.0)
130-6†	1/2"-13	4 1/2"	(114.3)	2 1/2"	(63.5)	3 7/8"	(98.4)	101	(45.8)

'H' and 'W' are beam dimensions.

* Maximum Recommended Load 500 Lbs. (2.22kN) Safety Factor of 5

† Larger bolts and I-rods are required for 5" (125mm) and 6" (150mm) pipe sizes