## Upper Attachments



Upper attachments offered in this section are designed to suspend hanger rods from beams, concrete, and other structural surfaces by bolting or welding.

## Materials

Carbon Steel and Malleable Iron are used in the manufacturing of upper attachments and provide the high strength properties required. 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 ElectroGalvanized Zinc (ASTM B633 SC3). Hot-Dip Galvanized After Fabrication (ASTM A123), Red Primer, Plastic Coating, DURA GREEN ${ }^{\text {TM }}$ and 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.

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.

## B3199R - Ceiling Flange

## B3199RCT - Ceiling Flange Dura-Copper Coated

Size Range: 3/8"-16 \& 1/2"-13 rod
Material: Malleable Iron (Stainless Steel Type 304 available)
Standard Finish: Plain or Electro-Galvanized
B3199RCT is DURA-COPPER ${ }^{\text {TM }}$ coated
Function: Designed for attaching a hanger or support rod to beams, ceilings, or walls.
Order By: Part number and finish.

路

| Part No. |  | Thread Size A | B |  | Design Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | in. | (mm) | Lbs. | (kN) | Lbs. | (kg) |
| B3199R-3/8 | B3199RCT-3/8 | 3/8"-16 | 7/16" | (11.1) | 180 | (.80) | 13 | (5.9) |
| B3199R-1/2 | B3199RCT-1/2 | 1/2"-13 | 1/2" | (12.7) | 180 | (.80) | 17 | (7.7) |

## TOLCO ${ }^{\text {TM }}$ Fig. 78 - All Steel Ceiling Plate

Size Range: 3/8"-16 rod
Material: Pre-Galvanized Steel
Function: Attachment to wood beams, ceilings, metal decks or walls. Can also be welded to steel beams.
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Additionally, UL has listed the Fig. 78 with fasteners as shown in the table below.
Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number, rod size and finish
US Patent \#5,702,077


| UL Listed Fastener Table |  |  |  |
| :---: | :---: | :---: | :---: |
| Pipe Size | 0ty | Fastener Type | Material |
| 1/2" - 2" | 2 | \#14 x 11/4" A-point hex-washer-head sheet metal screw | Wood |
| 21/2" - $4^{\prime \prime}$ | 2 | $1 / 44^{\prime \prime} \times 1 / 2^{\prime \prime}$ wood screws* | Wood |
| 1/2" - 2" | 2 | $1 / 4{ }^{\prime \prime} \times 1$ " tek screws | Metal (18 gauge) |
| $1 / 2^{\prime \prime}-2{ }^{\prime \prime}$ | 2 | \#14 x 11/4" A-point hex-washer-head sheet metal screw | Wood |
| 1/2" - ${ }^{\prime \prime}$ | 2 | \#14 x 2" A-point-hex-washer-head sheet metal screw | Wood thru 5/8" gyp board |


| Part No. | Pipe Size |  | A |  | B |  | C |  | Hole Dia. D |  | Thread SizeE | Design Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) |  |  | Lbs. | (kN) | Lbs. | (kg) |
| 78-3/8 | $1 / 2^{\prime \prime}-2^{\prime \prime}$ | (15-60) | $3 "$ | (76.2) | 21/8" | (54.0) | 11/8" | (28.6) | 5/16" | (7.9) |  | 3/8"-16 | 150 | (0.67) | 15 | (6.8) |

## Upper Attachments

## B3060L - Light Duty Angle Clip

Size Range: 3/8"-16 rod
Material: Steel (Stainless steel available)
Function: Designed for attaching $3 / 8^{\prime \prime}-16$ hanger rod to the side of beams or walls.

Approvals: Conforms to Federal Specification WW-H-171E \& A-A-1192A, Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 \& SP-58, Type 34.

Finish: Plain or Electro-Galvanized
Order By: number and finish.
Design Load: 300 Lbs. (1.33kN)
Weight: Approx. Wt./100-15 Lbs. (6.8 kg)


## B3070 - Reversible Angle Clip

Size Range: $3 / 8^{\prime \prime}-16$ and $1 / 2^{"-13 ~ r o d, ~}{ }^{1 / 2 " ~(15 m m) ~ t h r u ~} 3^{1 / 2 " 1}(90 \mathrm{~mm})$ pipe
Material: Steel
Function: Designed for attaching hanger rod to the side of beams or walls.
Approvals: Conforms to Federal Specification WW-H-171E \& A-A-1192A,
Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 \& SP-58, Type 34.

Finish: Plain or Electro-Galvanized
Order By: number and finish.
Design Load: 500 Lbs. ( 2.22 kN ) when installed in either direction.
Weight: Approx. Wt./100-49 Lbs. (22.2 kg)


| Part No. | Rod Size | A |  | B |  | C |  | Hole 1 |  | Hole 2 |  | Hole 3 |  | Max. Rec. Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) |  | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | Lbs. | (kN) |  |  |
| B3070-3/8x ${ }^{1 / 2}$ | $3 / 88^{\prime \prime}-16 \times 1 / 24-13$ | $2{ }^{\prime \prime}$ | (50.8) | 13/16" | (20.6) | $2 "$ | (50.8) | 9/16" | (14.3) | 7/16" | (11.1) | 5/16" | (7.9) | 700 | (3.11) | 35 | (15.9) |
| B3070- $1 / 2 \mathbf{x}^{1 / 2}$ | $1 / 2 "-13 \times 1 / 24-13$ | $2{ }^{\prime \prime}$ | (50.8) | $3 / 4 "$ | (19.0) | $2 "$ | (50.8) | 9/16" | (14.3) | 9/16" | (14.3) | 5/16" | (7.9) | 700 | (3.11) | 34 | (15.4) |

## B3060 - Side Beam Angle Clip

Size Range: $3 / 8$ " -16 and $7 / 8$ " -9 rod
Material: Steel (Stainless steel available)
Function: Designed for attaching a hanger rod to the side of beams or walls.
Approvals: Conforms to Federal Specification WW-H-171E \& A-A-1192A, Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 \& SP-58, Type 34.
Finish: Plain or Electro-Galvanized. Contact customer service for alternative finishes and materials.


Order By: Part number and finish.

| Part No. | Hole Size A <br> in. (mm) | B |  | C |  | D |  | T |  | Design Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | Lbs. | (kN) |  |  |
| B3060-3/8 | 7/16" (11.1) | 23/16" | (55.6) | $2{ }^{1}$ | (50.8) | 11/4" | (31.7) | $1 / 4{ }^{1 /}$ | (6.3) | 305 | (1.35) | 53 | (24.0) |
| B3060-1/2 | 9/16" (14.3) | 23/16" | (55.6) | $2{ }^{\prime \prime}$ | (50.8) | 11/4" | (31.7) | $1 / 4{ }^{\prime \prime}$ | (6.3) | 565 | (2.51) | 51 | (23.1) |
| B3060-1/2 | 11/16" (17.5) | 23/16" | (55.6) | $2{ }^{\prime \prime}$ | (50.8) | $1^{1} / 4^{\prime \prime}$ | (31.7) | $1 / 4{ }^{\prime \prime}$ | (6.3) | 909 | (4.02) | 48 | (21.8) |
| B3060-3/4 | 13/16" (20.6) | 3" | (76.2) | $3 "$ | (76.2) | $13 / 4 "$ | (44.4) | 3/8" | (9.5) | 1355 | (6.03) | 169 | (74.8) |
| B3060-7/8 | 15/16" (23.8) | 4" | (101.6) | $4{ }^{4}$ | (101.6) | $2^{1} / 2^{\prime \prime}$ | (63.5) | 3/8" | (9.5) | 1870 | (8.32) | 312 | (141.5) |

## TOLCO ${ }^{\text {TM }}$ Fig. 51NFPA - Side Beam Bracket for NFPA Rod \& Fastener Sizing

Size Range: $3 / 8$ "-16 thru $1 / 2^{\prime \prime}-13 \mathrm{rod}, 1 / 2^{\prime \prime}(15 \mathrm{~mm})$ thru $8^{\prime \prime}$ pipe ( 200 mm )
Material: Steel
Function: Recommended for attaching hanger rod to side of beams or walls. Designed to accommodate current rod schedule and fastener requirements per National Fire Protection Association (NFPA) Pamphlet 13.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL), and Factory Mutual Engineering approved.
Finish: Plain. Contact customer service for alternative finishes and materials.
Order By: Part number, rod size and finish


| Part No. | Pipe Size |  | Rod <br> Size | A |  | B |  | C |  | Hole 1 |  | Hole 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in. | (mm) |  | in. | (mm) | in. | (mm) | in. | (mm) |  | (mm) | in. (mm) |
| 51NFPA-3/8x3/8 | 1/2" - 2" | (15-60) | 3/8"-16 | 2 " | (50.8) | $3 / 4$ " | (19.0) | 2 " | (50.8) | $7 / 16{ }^{\prime \prime}$ | (11.1) | 7/16" (11.1) |
| 51NFPA-3/8x1/2 | 21/2" - 4" | (65-100) | 3/8"-16 | $2{ }^{\prime \prime}$ | (50.8) | $3 / 4$ " | (19.0) | $2 "$ | (50.8) | $9 / 16^{\prime \prime}$ | (14.3) | 7/16" (11.1) |
| 51NFPA-1/2x1/2 | $5 "$ - $6^{\prime \prime}$ | (125-150) | 1/2"-13 | $2^{1 / 2 "}$ | (63.5) | $3 / 4$ " | (19.0) | $2^{1} / 2^{\prime \prime}$ | (63.5) | 9/16" | (14.3) | 9/16" (14.3) |
| 51NFPA-1/2x5/8 | 8" | (200) | 1/2"-13 | $2^{1 / 2 "}$ | (63.5) | $3 / 4 "$ | (19.0) | $2^{1} / 2^{\prime \prime}$ | (63.5) | 11/16" | (17.5) | 9/16" (14.3) |


| Part No. | Design Load <br> Lbs. |  | $(\mathbf{k N})$ | Approx. Wt./100 <br> Lbs. |
| :--- | :---: | :---: | ---: | :---: |
| $\mathbf{( k g )}$ |  |  |  |  |

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

## Upper Attachments

## TOLCO ${ }^{m}$ Fig. 50 - Side Beam Bracket for NFPA Rod \& Fastener Sizing

Size Range: 3/8"-16 thru 7/8"-9 rod
Material: Steel
Function: Recommended for attaching hanger rod to side of beams or walls.
Approvals: Factory Mutual Engineering approved (FM).
Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number, rod size and finish


| Part No. | Rod <br> Size | A |  | B |  | C |  | Hole Size H |  | Max. Rec. Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | Lbs. | (kN) | Lbs. | (kg) |
| 50-3/8 | 3/8"-16 | 2 " | (50.8) | 3/4" | (19.0) | 2 " | (50.8) | 7/16" | (11.1) | 700 | (3.22) | 35 | (15.9) |
| 50-1/2 | 1/2"-13 | 2 " | (50.8) | $3 / 4{ }^{\text {" }}$ | (19.0) | 2 " | (50.8) | 9/16" | (14.3) | 700 | (3.22) | 35 | (15.9) |
| 50-5/8 | $5 / 8$ "-11 | 21 | (50.8) | $3 / 4$ " | (19.0) | $2{ }^{\prime \prime}$ | (50.8) | ${ }^{11} / 16^{\prime \prime}$ | (17.5) | 700 | (3.22) | 32 | (14.5) |
| 50-3/4 | 3/4"-10 | $2^{1 / 2 "}$ | (63.5) | 3/4" | (19.0) | 21/2" | (63.5) | 13/16" | (20.6) | 1250 | (5.56) | 110 | (49.9) |
| 50-7/8 | 7/8-9 | $2^{1} / 2^{\prime \prime}$ | (63.5) | 3/4" | (19.0) | 21/2" | (63.5) | 15/16" | (23.8) | 1250 | (5.56) | 100 | (45.3) |

## B3061 - Angle Bracket

## Material: Steel

Function: - Recommended for supporting pipe at various distances from wall or column.

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

Order By: Part number and finish


| Part No. | Size | A |  | B |  | Hole Size |  | Max. Rec. Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) | in. | (mm) | in. | (mm) | Lbs. | (kN) | Lbs. | (kg) |
| B3061-1 | 1 | 3 " | (76.2) | 2 " | (50.8) | 7/16" | (11.1) | 180 | (0.80) | 46 | (20.8) |
| B3061-2 | 2 | $4 "$ | (101.6) | $3 "$ | (76.1) | 7/16" | (11.1) | 180 | (0.80) | 65 | (29.5) |
| B3061-3 | 3 | $3{ }^{\prime \prime}$ | (76.2) | $2{ }^{\prime \prime}$ | (50.8) | 9/16" | (14.3) | 390 | (1.73) | 85 | (38.5) |
| B3061-4 | 4 | $4 "$ | (101.6) | $3 "$ | (76.1) | 9/16" | (14.3) | 390 | (1.73) | 115 | (52.1) |

## TOLCO ${ }^{\text {TM }}$ Fig. 56 - Tapped Side Beam Connector (Stainless Steel)

Size Range: ${ }^{1 / 2 "}$ ( 15 mm ) thru 4" ( 100 mm ) pipe ( $3 / 8^{"-16 ~ r o d) ~}$
Material: Stainless Steel
Function: Recommended for attaching hanger rod to steel or wood beams. Tapped hole allows easy adjustment of hanger rod.
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL), and Factory Mutual Engineering approved for 1/2" (15mm) thru 4" ( 100 mm ) pipe.
Weight: Approx. Wt./100-20.0 Lbs. (9.1kg)
Order By: Part number
Note: Available only in Stainless Steel materials.
Per NFPA 13: ${ }^{1 / 2 "}(15 \mathrm{~mm})$ thru $2^{2 \prime}(50 \mathrm{~mm})$ pipe use $3 / 8 "-16$ fastener; 21/2" ( 65 mm ) thru $4^{\prime \prime}(100 \mathrm{~mm})$ pipe, use ${ }^{1 / 2 "-13 ~ f a s t e n e r . ~}$


## TOLCO ${ }^{\text {TM }}$ Fig. 58 - Threaded Side Beam Bracket

Size Range: $3 / 8^{\prime \prime}-16$ rod, pipe sizes ${ }^{1 / 2 "}(15 \mathrm{~mm})$ thru $4^{\prime \prime}(100 \mathrm{~mm})$
Material: Pre-Galvanized Steel
Function: Practical and economical bracket used to support piping from wood, concrete or steel beams.
Features: Unique design allows rod to be easily threaded into bracket. Offset design permits unlimited rod adjustment. Center mounting hole will accept $3 / 8^{\prime \prime}$ and $1 / 2^{\prime \prime}$ fastener bolts. Per NFPA 13: $1^{1 / 2 "}(15 \mathrm{~mm})$ thru $2^{\prime \prime}(50 \mathrm{~mm})$ pipe requires ${ }^{3} / 8^{\prime \prime}$ fastener, $2^{1 / 2 "}(65 \mathrm{~mm})$ thru $4^{4 \prime}(100 \mathrm{~mm})$ pipe requires ${ }^{1 / 2 "}$ fastener.*
Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL), and Factory Mutual Engineering approved thru 4" (100mm) pipe.
Finish: Pre-Galvanized


Order By: Part number and finish
*Note: Additionally UL has listed the Fig. 58 with fasteners as shown in table below.


|  |  | UL Listed Fastener Table |  |
| :---: | :---: | :---: | :---: |
| Pipe Size | Oty | Fastener Type | Material |
| $2{ }^{\prime \prime}$ | 2 | \#16 x 2" Drive screws | Wood |
| 2 " | 1 | 3/8" Lag bolt | Wood |
| 21/2" - 4" | 1 | 1/2" Lag bolt | Wood |
| $3^{1} / 2^{\prime \prime}$ | 2 | $1 / 4^{\prime \prime} \times 1{ }^{1 / 2} 2^{\prime \prime}$ Lag bolts | Wood |
| $4{ }^{4}$ | 2 | 1/4" $\times 2$ " Lag bolts ** | Wood |
| 4" | 2 | \#14 x 1" or $1 / 4^{\prime \prime} \times 1$ 1" Tek type screws | Metal (15 gauge) |
| 4" | 2 | \#14 x 1" or $1 / 4^{\prime \prime} \times 1$ 1" Tek type screws | Metal (16 gauge) |
| ** No pre-drilling |  |  |  |



| Part No. | Pipe Size |  | Rod <br> Size | A |  | B |  | C |  | Max. Rec. Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in. | (mm) |  | in. | (mm) | in. | (mm) | in. | (mm) | Lbs. | (kN) |  | (kg) |
| 58 | $1 / 2^{\prime \prime}-4 \prime$ | (15-100) | 3/8"-16 | 23/4" | (69.8) | $11 / 2^{\prime \prime}$ | (38.1) | 11/8" | (28.6) | $300 * * *$ | (1.33) | 14 | (6.3) |

[^0]
## Upper Attachments

## TOLCO ${ }^{\text {TM }}$ Fig. 75 - Swivel Attachment

Size Range: - 3/8"-16 Rod Attachment
Material: Steel
Function: Three recommended applications for this product:

- May be used as a Branch Line Restraint for structural attachment to anchor bolt, beam clamp, etc.
- May be used as an upper attachment with short hanger rod to omit seismic bracing.
- May be used in a pitched or sloped roof application, to meet requirements of NFPA 13 (2010) 9.1.2.6.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL) to support up to $4^{\prime \prime}(100 \mathrm{~mm})$ pipe.

Finish: Electro-Galvanized
Weight: Approx. Wt./100-13.3 Lbs. (6.0kg)
Order By: Part number
Patent: \#7,887,248

Fig. 200
"Trimline" Adjustable Band Hanger


May be used as a structural attachment component of a branch line restraint


May be used as a upper attachment with short hanger rod to omit seismic bracing


May be used with a pitched roof application, to meet requirements of NFPA 13 (2010) Sec. 9.1.2.5.

## B3058 - Side Beam Connector

Size Range: 3/8"-16 \& 1/2"13 rods
Material: Malleable Iron
Function: Designed for attaching hanger rod to the side of beams or walls.

Approvals: Conforms to Federal Specification WW-H-171E \& A-A-1192A, Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 \& SP-58, Type 34.
Finish: Plain or Electro-Galvanized
Order By: Part number and finish.


| Part No. | $\begin{gathered} \text { Rod Size } \\ \text { A } \end{gathered}$ | B |  | C |  | Design Load |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) | in. | (mm) | Lbs. | (kN) | Lbs. | (kg) |
| B3058-3/8 | 3/8"-16 | 23/8" | (60.3) | 9/16" | (14.3) | 250 | (1.11) | 13 | (5.9) |
| B3058-1/2 | 1/2"-13 | 23/4" | (69.8) | 3/4" | (19.0) | 480 | (2.13) | 25 | (11.3) |

## B3062 - Side Beam Bracket

Size Range: 3/8"-16 thru 5/8"-11 rods
Material: Malleable Iron
Function: Designed for attaching hanger rod to the side of beams or walls.

Approvals: Conforms to Federal Specification WW-H-171E \& A-A-1192A, Type 35 and Manufacturers Standardization Society ANSI/MSS SP-69 \& SP-58, Type 34.
Finish: Plain or Electro-Galvanized


Order By: Part number and finish.

| Part No. | $\begin{gathered} \text { Rod Size } \\ \text { A } \end{gathered}$ | For Nominal Pipe Sizes in. (mm) |  | Design Load |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | With L <br> Lbs. | g Screw <br> (kN) |  | With Bot Lbs. | olt To Steel <br> (kN) | Approx. <br> Lbs. | . Wt./100 <br> (kg) |
| B3062-3/8 | 3/8"-16 | 3/4"-2" | (20-50) |  | 390 | (1.73) |  | 730 | (3.25) |  | (9.5) |
| B3062-1/2 | 1/2"-13 | $2^{1} / 2^{\prime \prime}-3^{1} / 2^{\prime \prime}$ | (65-95) |  | 640 | (2.84) |  | 1350 | (6.00) |  | (19.9) |
| B3062-5/8 | 5/8"-11 | 4"-5" | (100-125) |  | 760 | (3.38) |  | 2160 | (9.71) |  | (36.7) |
| Part No. | ${ }_{\mathrm{in} .} \quad \mathrm{B}_{(\mathrm{mm})}$ | $\underset{\text { in. } .}{C}$ |  |  | (mm) |  | $E_{(m m)}$ |  | $\stackrel{F}{\text { in. }} \quad \stackrel{(m m)}{ }$ |  | $\mathrm{T}_{(\mathrm{mm})}$ |
| B3062-3/8 | 7/16" (11.1) | 7/8" 122.2 |  |  |  | 5/8" | (15.9) |  | 17/16" (36.5) |  | (6.3) |
| B3062-1/2 | 9/16" (14.3) | 13/16" 30.2 |  | 113/16" | (46.0) | 3/4" | (19.0) |  | 17/8" (47.6) | 11/32" | " (8.7) |
| B3062-5/8 | 3/4" (19.0) | 17/16" 36.5 |  | 23/16" | (55.6) | 7/8" | (22.2) |  | $2^{11 / 4 "}$ (54.0) | 7/16" | (11.1) |

## Upper Attachments

## B3083 - Welded Beam Attachment

B3083W0 - Welded Beam Attachment Without Pin

Size Range: 3/8"-16 thru 2"-41/2 rod
Material: Steel (Stainless steel available)
Function: Designed for attaching hanger rod to the bottom of structural steel where heavy loads and large hanger rod sizes are required. Can be welded in place in either the upright or inverted position. When using B3083WO, attach hanger rod to bolt or pin with a B3200 weldless eye nut or B3210 and B3211 series eye rods.
Approvals: Conforms to Federal Specification WW-H-171E \& A-A-1192A, Type 22 and Manufacturers Standardization Society ANSI/MSS SP-69 \& SP-58, Type 22.

Finish: Plain or Electro-Galvanized. Contact customer service for alternative finishes and materials.

Order By: Part number (with or without hardware) and finish.
Note: When ordering with hardware for sizes $3 / 8$ thru $11 / 8$, hex head cap screws and hex nuts will be supplied. For $1 \frac{1}{1} 4$ thru 2, clevis pin and cotter pins will be supplied. Must be specified with or without hardware.


|  | Pin or |  |  |  | Design Load |  |  |  |  |  | Approx. Wt./100 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part No. | $\underset{\text { A }}{\text { Rod Size }}$ | Bolt in. |  |  | $\begin{array}{cc} 650^{\circ} \mathrm{F}\left(349^{\circ} \mathrm{C}\right) \\ \text { Lbs. } & (\mathrm{kN}) \end{array}$ |  |  | $\begin{gathered} 750^{\circ} \mathrm{F}\left(399^{\circ} \mathrm{C}\right) \\ \text { Lbs. } \\ \hline \end{gathered}$ |  |  | W/O Hardware Lbs. (kg) |  |  |  | With Hardware Lbs. (kg) |  |
| B3083-3/8 | 3/8"-16 | $1 / 2{ }^{1 \prime}$ | (12.7) |  | 730 | (3.25) |  |  | 572 | (2.54) |  | 89 | (40.3) |  | 110 | (49.9) |
| B3083-1/2 | 1/2"-13 | 5/8" | (15.9) |  | 1350 | (6.00) |  |  | 1057 | $(4,70)$ |  | 87 | (39.4) |  | 123 | (55.8) |
| B3083-5/8 | $5 / 88^{\prime \prime}-11$ | 3/4" | (19.0) |  | 2160 | (9.61) |  |  | 1692 | (7.52) |  | 84 | (38.1) |  | 140 | (63.5) |
| B3083-3/4 | $3 / 4{ }^{4}-10$ | 7/8" | (22.2) |  | 3230 | (14.37) |  |  | 2530 | (11.25) |  | 173 | (78.4) |  | 268 | (121.5) |
| B3083-7/8 | 7/8"-9 | $1{ }^{1 \prime}$ | (25.4) |  | 4480 | (19.93) |  |  | 3508 | (15.60) |  | 234 | (106.1) |  | 376 | (170.4) |
| B3083-1 | 1"-8 | $11 / 8{ }^{\prime \prime}$ | (28.6) |  | 5900 | (26.24) |  |  | 4620 | (20.55) |  | 394 | (178.6) |  | 596 | (270.2) |
| B3083-1 $1 / 8$ | $11 / 8{ }^{\prime \prime}-7$ | $11 / 4^{\prime \prime}$ | (31.7) |  | 7450 | (33.14) |  |  | 5830 | (25.93) |  | 402 | (182.2) |  | 680 | (308.3) |
| B3083-11/4 | 11/4"-7 | $13 / 8{ }^{\prime \prime}$ | (34.9) |  | 9500 | (42.25) |  |  | 7440 | (33.09) |  | 734 | (332.7) |  | 955 | (432.9) |
| B3083-1 ${ }^{1 / 2}$ | 11/2"-6 | $15 / 8{ }^{\prime \prime}$ | (41.3) |  | 13800 | (61.38) |  |  | 10807 | (48.07) |  | 1460 | (661.8) |  | 1817 | (823.7) |
| B3083-13/4 | 13/4"-5 | 17/8" | (47.6) |  | 18600 | (82.73) |  |  | 14566 | (64.79) |  | 1746 | (791.5) |  | 2310 | (1047.1) |
| B3083-2 | 2"-41/2 | 21/4" | (57.1) |  | 24600 | (109.42) |  |  | 19625 | (87.29) |  | 2190 | (992.7) |  | 2996 | (1358.1) |
|  | B |  |  | C |  | Dia. D |  |  |  | E |  |  | T x W |  |  |  |
| Part No. | in. | (mm) |  | in. | (mm) |  | in. | (mm) |  | in. | (mm) |  |  | in. |  | mm) |
| B3083-3/8 | $2{ }^{\prime \prime}$ | (50.8) |  | 7/8" | (22.2) |  | 9/16" | (14.3) |  | 11/4" | (31.7) |  |  | 1/4" $\times 2$ " | $16.3 \times$ | $\times 50.8)$ |
| B3083-1/2 | $2 "$ | (50.8) |  | 7/8" | (22.2) |  | 11/16" | (17.5) |  | 11/4" | (31.7) |  |  | 1/4" $\times 2$ " | $16.3 \times$ | x 50.8) |
| B3083-5/8 | 2 " | (50.8) |  | 7/8" | (22.2) |  | 13/16" | (20.6) |  | $11 / 4{ }^{\prime \prime}$ | (31.7) |  |  | $1 / 4^{\prime \prime} \times 2{ }^{\prime \prime}$ | $16.3 \times$ | x 50.8) |
| B3083-3/4 | 2 " | (50.8) |  | $11 / 8{ }^{\prime \prime}$ | (28.6) |  | 15/16" | (23.8) |  | 11/2" | (38.1) |  |  | $3 / 88^{\prime \prime} \times 2^{1} / 2^{\prime \prime}$ | 2" $19.5 \times$ | x 63.5) |
| B3083-7/8 | $3{ }^{\prime \prime}$ | (76.2) |  | $11 / 4^{\prime \prime}$ | (31.7) |  | $11 / 8{ }^{\prime \prime}$ | (28.6) |  | $2{ }^{\prime \prime}$ | (50.8) |  |  | $3 / 8^{\prime \prime} \times 2^{1} / 2^{\prime \prime}$ | $2^{\prime \prime} \quad 19.5 \times$ | x 63.5) |
| B3083-1 | $3^{\prime \prime}$ | (76.2) |  | $1^{1 / 2} 2^{\prime \prime}$ | (38.1) |  | $11 / 4^{\prime \prime}$ | (31.7) |  | $2 "$ | (50.8) |  |  | $1 / 2^{\prime \prime} \times 3$ " | $112.7 \times$ | x 76.2) |
| B3083-1 $1 / 8$ | $3{ }^{\prime \prime}$ | (76.2) |  | $11 / 2^{\prime \prime}$ | (38.1) |  | $13 / 8{ }^{\prime \prime}$ | (34.9) |  | 23/4" | (69.8) |  |  | $1 / 2^{\prime \prime} \times 3$ " | $112.7 \times$ | x 76.2 |
| B3083-11/4 | $3{ }^{\prime \prime}$ | (76.2) |  | $2{ }^{\prime \prime}$ | (50.8) |  | $11 / 2^{\prime \prime}$ | (38.1) |  | $3 "$ | (76.2) |  |  | $5 / 8{ }^{\prime \prime} \times 4$ 4" | $115.9 \times$ | $\times 101.6)$ |
| B3083-1 ${ }^{1 / 2}$ | 4 " | (101.6) |  | $2^{1} / 2^{\prime \prime}$ | (63.5) |  | $13 / 4^{\prime \prime}$ | (44.4) |  | $31 / 2^{\prime \prime}$ | 188.9 |  |  | $3 / 4{ }^{\prime \prime} \times 5{ }^{\text {" }}$ | $119.0 \times$ | $\times 127.0)$ |
| B3083-13/4 | $5{ }^{\prime \prime}$ | (127.0) |  | $23 / 4{ }^{\prime \prime}$ | (69.8) |  | $2 "$ | (50.8) |  | $33 / 4{ }^{\text {" }}$ | (95.2) |  |  | $3 / 4^{\prime \prime} \times 5$ " | $119.0 \times$ | $\times 127.0)$ |
| B3083-2 | $5^{\prime \prime}$ | (127.0) |  | $31 / 4^{\prime \prime}$ | (82.5) |  | 23/8" | (60.3) |  | $33 / 4$ " | (95.2) |  |  | $3 / 44^{\prime \prime} \times 6$ | $19.0 \times$ | x 152.4) |

## B3080S - (Short) Structural Welding Lug <br> \section*{B3080L - (Long) Structural Welding Lug}

Size Range: Short lug is available for use with $1 / 2$ "-13 thru 2"-41/2 rods; Long lug may be used with 1/2"-13 thru 2"-41/2 rod.
Material: Steel
Function: Designed for attachment to structural steel. Use with B3201 forged steel clevis.
Approvals: Conforms to Manufacturers Standardization Society ANSI/MSS SP-69 \& SP-58, Type 57.
Finish: Plain or Electro-Galvanized
Order By: Part number and finish.


B3080S

Must be field welded to structural steel.


| Part No. |  | For Hanger | Pin or Bolt Size | Design Load |  | Approx. Wt./100 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | ort |  | ng |
| Short | Long |  | in. ( mm) | Lbs. | ( kN) | Lbs. | (kg) | Lbs. | (kg) |
| B3080S-1/2 | B3080L-1/2 |  | 1/2"-13 | 5/8" (15.9) | 1350 | (6.00) | 44 | (19.9) | 71 | (32.2) |
| B3080S-5/8 | B3080L-5/8 | 5/8"-11 | 3/4" (19.0) | 2160 | (9.61) | 44 | (19.9) | 68 | (30.8) |
| B3080S-3/4 | B3080L-3/4 | $3 / 44^{\prime \prime} 10$ | 7/8" (22.0) | 3230 | (14.37) | 63 | (28.6) | 100 | (45.3) |
| B3080S-7/8 | B3080L-7/8 | 7/8"-9 | 1" (25.4) | 4480 | (19.93) | 71 | (32.2) | 100 | (45.3) |
| B3080S-1 | B3080L-1 | 1"-8 | 11/8" ${ }^{\prime \prime}$ (28.6) | 5900 | (26.24) | 126 | (57.1) | 169 | (76.6) |
| B3080S-11/8 | B3080L-11/8 | 11/8"-7 | 11/4" ${ }^{\prime \prime}$ (31.7) | 7450 | (33.14) | 166 | (75.3) | 208 | (94.3) |
| B3080S-11/4 | B3080L-11/4 | $11 / 4^{\prime \prime}-7$ | 13/8" ${ }^{\prime \prime}$ (38.1) | 9500 | (42.25) | 310 | (140.6) | 381 | (172.8) |
| B3080S-1 1 ² | B3080L-1 ${ }^{1 / 2}$ | 11/2"-6 | 15/8" ${ }^{\prime \prime}$ (41.3) | 13800 | (61.38) | 503 | (228.1) | 662 | (300.3) |
| B3080S-13/4 | B3080L-13/4 | 13/4"-5 | 17/8" (47.6) | 18600 | (82.73) | 487 | (220.9) | 646 | (293.0) |
| B3080S-2 | B3080L-2 | 2"-41/2 | 21/4" $4^{\prime \prime}$ (57.1) | 24600 | (109.42) | 744 | (337.5) | 808 | (366.5) |


| Part No. |  | Hole Dia. 'D' in. ( mm) |  | Short |  | H | Long |  | R |  | T |  | W |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Short | Long |  |  | in. | ( mm) |  |  | ( mm) | in. | ( mm) | in. | ( mm) | in. | ( mm) |
| B3080S-1/2 | B3080L-1/2 | 11/16" |  | 11/2" | (38.1) |  |  | (76.2) | 11/4" | (31.7) | 1/4" | (6.3) | 21/2" | (63.5) |
| B3080S-5/8 | B3080L-5/8 | 13/16" | (20.6) | $11 / 2^{\prime \prime}$ | (38.1) |  |  | (76.2) | $11 / 4^{\prime \prime}$ | (31.7) | 1/4" | (6.3) | 21/2" | (63.5) |
| B3080S-3/4 | B3080L-3/4 | 15/16" | (23.8) | $1^{1 / 2} 2^{\prime \prime}$ | (38.1) |  |  | (76.2) | $11 / 4^{\prime \prime}$ | (31.7) | 3/8" | (9.5) | 21/2" | (63.5) |
| B3080S-7/8 | B3080L-7/8 | 11/8" | (28.6) | $2{ }^{\prime \prime}$ | (50.8) |  |  | (76.2) | 11/4" | (31.7) | 3/8" | (9.5) | 21/2" | (63.5) |
| B3080S-1 | B3080L-1 | $11 / 4^{\prime \prime}$ | (31.7) | 2 " | (50.8) |  |  | (76.2) | $11 / 2^{\prime \prime}$ | (38.1) | 1/2" | (12.7) | $3{ }^{\prime \prime}$ | (76.2) |
| B3080S-11/8 | B3080L-1 $1 / 8$ | 13/8" | (34.9) | $3{ }^{\prime \prime}$ | (76.2) |  |  | (101.6) | 11/2" | (38.1) | $1 / 2$ " | (12.7) | $3{ }^{\prime \prime}$ | (76.2) |
| B3080S-11/4 | B3080L-11/4 | $1^{11 / 2 "}$ |  | $3 "$ | (76.2) |  |  | (101.6) | $2{ }^{\prime \prime}$ | (50.8) | 5/8" | (15.9) | $4{ }^{\prime \prime}$ | (101.6) |
| B3080S-1 ${ }^{1 / 2}$ | B3080L-11/2 | 13/8" | (44.4) | $3 "$ | (76.2) |  | $41 / 2^{\prime \prime}$ | (114.3) | 21/2" | (63.5) | 3/4" | (19.0) | $5{ }^{\prime \prime}$ | (127.0) |
| B3080S-13/4 | B3080L-13/4 | $2{ }^{\prime \prime}$ | (50.8) | $3 "$ | (76.2) |  | 41/2" | (114.3) | 21/2" | (63.5) | $3 / 4{ }^{\text {" }}$ | (19.0) | $5{ }^{\prime \prime}$ | (127.0) |
| B3080S-2 | B3080L-2 | 23/8" |  |  | (101.6) |  | 41/2" | (114.3) | $3{ }^{\prime \prime}$ | (76.2) | 3/4" | (19.0) | $6{ }^{\prime \prime}$ | (152.4) |

## Upper Attachments

## B3085 - Rod Attachment Concrete Plate

Size Range: 3/8"-16 thru 2"-41/2 rod
Material: Steel
Function: Structural attachment to concrete ceiling where vertical attachment is desired. Attach hanger rod directly to support bracket.
Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number and finish
Note: Design load is based off rod sizes. Before installation ensure that concrete and anchorage are sufficient to carry the load.


| Part No. | Rod Size | A |  | B |  | C |  | D |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) |
| B3085-3/8 | 3/8"-16 | $1{ }^{10}$ | (25.4) | 8" | (203.2) | 10" | (254.0) | $5{ }^{\text {" }}$ | (127.0) |
| B3085-1/2 | 1/2"-13 | $1{ }^{\prime \prime}$ | (25.4) | $8{ }^{\prime \prime}$ | (203.2) | 10 | (254.0) | $5{ }^{\prime \prime}$ | (127.0) |
| B3085-5/8 | 5/8"-11 | $1{ }^{\prime \prime}$ | (25.4) | $8{ }^{\prime \prime}$ | (203.2) | 10 | (254.0) | $5 "$ | (127.0) |
| B3085-3/4 | $3 / 44^{\prime \prime} 10$ | $1{ }^{\prime \prime}$ | (25.4) | 8" | (203.2) | 10 " | (254.0) | $5{ }^{\prime \prime}$ | (127.0) |
| B3085-7/8 | 7/8"-9 | $1{ }^{\prime \prime}$ | (25.4) | $8{ }^{\prime \prime}$ | (203.2) | 10 " | (254.0) | $5{ }^{\prime \prime}$ | (127.0) |
| B3085-1 | 1"-8 | $2 "$ | (50.8) | 8" | (203.2) | 12" | (304.8) | $6{ }^{\prime \prime}$ | (152.4) |
| B3085-1 $1 / 8$ | 11/8"-7 | $2{ }^{\prime \prime}$ | (50.8) | 8" | (203.2) | 12 | (304.8) | $6{ }^{\prime \prime}$ | (152.4) |
| B3085-1 $1 / 4$ | $11 / 4$ "-7 | $2{ }^{\prime \prime}$ | (50.8) | $8{ }^{\prime \prime}$ | (203.2) | 12 " | (304.8) | $6 "$ | (152.4) |
| B3085-1 1 ² | 11/2"-6 | $2{ }^{\prime \prime}$ | (50.8) | 8" | (203.2) | 12 " | (304.8) | $6^{\prime \prime}$ | (152.4) |


| Part No. | E |  | F |  | G |  | Max. Rec. Load* |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in. | (mm) | in. | (mm) | in. | (mm) | Lbs. | (kN) | Lbs. | (kg) |
| B3085-3/8 | 27/8" | (73.0) | 9/16" | (14.3) | $3 / 8{ }^{\text {" }}$ | (9.5) | 730 | (3.25) | 1145 | (519.4) |
| B3085-1/2 | 27/8" | (73.0) | 9/16" | (14.3) | 3/8" | (9.5) | 1450 | (6.00) | 1143 | (518.4) |
| B3085-5/8 | 27/8" | (73.0) | 9/16" | (14.3) | $1 / 2{ }^{\prime \prime}$ | (12.7) | 2160 | (9.61) | 1490 | (675.8) |
| B3085-3/4 | $31 / 8{ }^{\prime \prime}$ | (79.4) | 11/16" | (17.5) | $1 / 2{ }^{\prime \prime}$ | (12.7) | 3230 | (14.37) | 1574 | (713.9) |
| B3085-7/8 | 41/4" | (107.7) | 11/16" | (17.5) | $1 / 2{ }^{\prime \prime}$ | (12.7) | 4480 | (19.93) | 1635 | (741.6) |
| B3085-1 | $4^{1} / 2^{\prime \prime}$ | (114.3) | 13/16" | (20.6) | $3 / 4 "$ | (19.0) | 5900 | (26.24) | 3420 | (1551.3) |
| B3085-1 1 /8 | 43/4" | (120.6) | 15/16" | (23.8) | $3 / 4 "$ | (19.0) | 7450 | (33.14) | 3413 | (1548.1) |
| B3085-1¹/4 | $5{ }^{\prime \prime}$ | (127.0) | 15/16" | (23.8) | $3 / 4 "$ | (19.0) | 9500 | (42.25) | 3747 | (1699.6) |
| B3085-1 1 /2 | $6^{1} / 2^{\prime \prime}$ | (165.1) | 11/8" | ('28.6) | $1{ }^{\prime \prime}$ | (25.4) | 13800 | (61.38) | 5438 | (2466.7) |

[^1]
## B3086 - Clevis Concrete Plate

Size Range: 3/8"-16 thru 2"-41/2 rod
Material: Steel
Function: Structural attachment to concrete ceiling where flexibility is desired. (Use with B3200 weldless eye nut, B3210 eye rod or B3211 welded eye rod.)
Finish: Plain. Contact customer service for alternative finishes and materials.

Order By: Part number, rod size and finish


| Part No. | For Hanger Rod Size | A |  |  | B |  |  | C |  |  | D |  | E |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) |  | in. | (mm) |  | in. | (mm) |  | in. | (mm) |  | in. | (mm) | in. |
| B3086-3/8 | 3/8"-16 | $1{ }^{1 \prime}$ | (25.4) |  | $8{ }^{81}$ | (203.2) |  | 10" | (254.0) |  | $5{ }^{\prime \prime}$ | (127.0) |  | 1/2" | (12.7) | 9/16" |
| B3086-1/2 | 1/2"-13 | $1{ }^{11}$ | (25.4) |  | $8{ }^{\prime \prime}$ | (203.2) |  | $10 "$ | (254.0) |  | $5{ }^{\prime \prime}$ | (127.0) |  | 5/8" | (15.9) | $9 / 16{ }^{\prime \prime}$ |
| B3086-5/8 | 5/8"-11 | $1{ }^{11}$ | (25.4) |  | $8{ }^{\prime \prime}$ | (203.2) |  | $10 "$ | (254.0) |  | $5{ }^{\prime \prime}$ | (127.0) |  | $3 / 4{ }^{\prime \prime}$ | (19.0) | $9 / 16^{\prime \prime}$ |
| B3086-3/4 | $3 / 4{ }^{4}-10$ | $1{ }^{\prime \prime}$ | (25.4) |  | $8{ }^{\prime \prime}$ | (203.2) |  | $10 "$ | (254.0) |  | $5{ }^{\prime \prime}$ | (127.0) |  | 7/8" | (22.2) | 11/16" |
| B3086-7/8 | 7/8"-9 | $1{ }^{\prime \prime}$ | (25.4) |  | $8{ }^{10}$ | (203.2) |  | 101 | (254.0) |  | $5{ }^{\prime \prime}$ | (127.0) |  | $1{ }^{1 \prime}$ | (25.4) | 11/16" |
| B3086-1 | 1 "-8 | $2{ }^{\prime \prime}$ | (50.8) |  | $8{ }^{\prime \prime}$ | (203.2) |  | 12" | (304.8) |  | $6{ }^{\prime \prime}$ | (152.4) |  | $11 / 8{ }^{\prime \prime}$ | (28.6) | 13/16" |
| B3086-1 1 /8 | 11/8"-7 | $2{ }^{\prime \prime}$ | (50.8) |  | $8{ }^{\prime \prime}$ | (203.2) |  | 12 " | (304.8) |  | $6{ }^{\prime \prime}$ | (152.4) |  | $1^{1 / 4} 4^{\prime \prime}$ | (31.7) | 15/16" |
| B3086-11/4 | $11 / 4{ }^{\prime \prime}-7$ | $2{ }^{\prime \prime}$ | (50.8) |  | $8{ }^{10}$ | (203.2) |  | 12 | (304.8) |  | $6{ }^{\prime \prime}$ | (152.4) |  | $13 / 8{ }^{\prime \prime}$ | (34.9) | 15/16" |
| B3086-1¹/2 | 11/2"-6 | $2{ }^{\prime \prime}$ | (50.8) |  | 8" | (203.2) |  | 12 " | (304.8) |  | $6{ }^{\prime \prime}$ | (152.4) |  | $15 / 8^{\prime \prime}$ | (41.3) | $11 / 8{ }^{\prime \prime}$ |
| Part No. | G | H |  |  |  | R |  |  | S |  | Max. Rec. Load* |  |  |  | Approx. Wt./100 |  |
|  | in. (mm) |  | in. | (mm) |  | in. | (mm) |  | in. | (mm) |  | Lbs. | (kN) |  | Lbs. | (kg) |
| B3086-3/8 | 3/8" ${ }^{\text {" }}$ (9.5) |  | 2 " | (50.8) |  | 7/8" | (22.2) |  | $11 / 4{ }^{\prime \prime}$ | (31.7) |  | 730 | (3.25) |  | 1165 | (528.4) |
| B3086-1/2 | 3/8" ${ }^{\prime \prime}$ (9.5) |  | 2 " | (50.8) |  | 7/8" | (22.2) |  | $11 / 4{ }^{\prime \prime}$ | (31.7) |  | 1350 | (6.00) |  | 1178 | (534.4) |
| B3086-5/8 | $1 / 2^{\prime \prime}$ (127) |  | 2 " | (50.8) |  | 7/8" | (22.2) |  | $11 / 4{ }^{\prime \prime}$ | (31.7) |  | 2160 | (9.61) |  | 1546 | (701.2) |
| B3086-3/4 | 1/2" (127) |  | $2{ }^{\prime \prime}$ | (50.8) |  | 11/8" | (28.6) |  | 11/2" | (38.1) |  | 3230 | (14.37) |  | 1673 | (758.9) |
| B3086-7/8 | 1/2" (127) |  | 3 " | (76.2) |  | 11/4" | (31.7) |  | $2{ }^{\prime \prime}$ | (50.8) |  | 4480 | (19.93) |  | 1783 | (808.7) |
| B3086-1 | $3 / 4^{\prime \prime} \quad$ (19.0) |  | $3 "$ | (76.2) |  | $11 / 2{ }^{\prime \prime}$ | (38.1) |  | $2 "$ | (50.8) |  | 5900 | (26.24) |  | 3636 | (1649.3) |
| B3086-1 ${ }^{1 / 8}$ | 3/4" (19.0) |  | $3 "$ | (76.2) |  | $13 / 4{ }^{\prime \prime}$ | (44.4) |  | 23/4" | (69.8) |  | 7450 | (33.14) |  | 3708 | (1681.9) |
| B3086-1¹/4 | 3/4" (19.0) |  | $3 "$ | (76.2) |  | $2{ }^{\prime \prime}$ | (50.8) |  | 3 " | (76.2) |  | 9500 | (42.25) |  | 3986 | (1808.0) |
| B3086-1¹/2 | 1" (25.4) |  | $4 "$ | (101.6) |  | 21/2" | (63.5) |  | $31 / 2{ }^{\prime \prime}$ | (88.9) |  | 13800 | (61.38) |  | 5816 | (2638.1) |

[^2]
## Upper Attachments

## B3084 - Single Lug Concrete Plate

Size Range: $1 / 2$ "-13 thru 2"-41/2 rod
Material: Steel
Function: Structural attachment to concrete ceiling. Use with B3201 bridge clevis to attach to center lug.

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

Order By: Part number, rod size and finish


| Part No. | For Hanger Rod Size | A |  | B |  | C |  | D |  | E |  | F |  | G |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) |
| B3084-1/2 | 1/2"-13 | $1{ }^{11}$ | (25.4) | $8{ }^{\text {" }}$ | (203.2) | 10 | (254.0) | $5{ }^{\prime \prime}$ | (127.0) | 47/8" | (123.8) | 9/16" | (14.3) | 3/8" | (9.5) |
| B3084-5/8 | 5/8"-11 | $1{ }^{1 \prime}$ | (25.4) | $8{ }^{\text {" }}$ | (203.2) | 10 | (254.0) | $5{ }^{\prime \prime}$ | (127.0) | 47/8" | (123.8) | 9/16" | (14.3) | $1 / 2{ }^{\prime \prime}$ | (12.7) |
| B3084-3/4 | $3 / 4{ }^{\prime \prime}-10$ | $1{ }^{1 \prime}$ | (25.4) | $8{ }^{\prime \prime}$ | (203.2) | 10 | (254.0) | $5{ }^{\prime \prime}$ | (127.0) | 413/16" | (122.2) | 11/16" | (17.5) | $1 / 2{ }^{\text {" }}$ | (12.7) |
| B3084-7/8 | 7/8"-9 | $1{ }^{\prime \prime}$ | (25.4) | $8{ }^{\prime \prime}$ | (203.2) | 10 | (254.0) | $5{ }^{\prime \prime}$ | (127.0) | 413/16" | (122.2) | 11/16" | (17.5) | $3 / 4{ }^{\text {" }}$ | (19.0) |
| B3084-1 | 1"-8 | $2{ }^{\prime \prime}$ | (50.8) | 8" | (203.2) | 12 " | (304.8) | $6{ }^{\prime \prime}$ | (152.4) | 53/4" | (146.0) | 13/16" | (20.6) | 3/4" | (19.0) |
| B3084-1 1 /8 | 11/8"-7 | $2{ }^{\prime \prime}$ | (50.8) | $8{ }^{\text {" }}$ | (203.2) | 12 " | (304.8) | $6{ }^{\prime \prime}$ | (152.4) | 53/4" | (146.0) | 15/16" | (23.8) | $3 / 4{ }^{\prime \prime}$ | (19.0) |
| B3084-11/4 | $11 / 4$ "-7 | $2{ }^{\prime \prime}$ | (50.8) | $8{ }^{\text {" }}$ | (203.2) | 12" | (304.8) | $6{ }^{\prime \prime}$ | (152.4) | $5^{11 / 16 "}$ | (144.5) | 15/16" | (23.8) | 3/4" | (19.0) |
| B3084-1¹/2 | 11/2"-6 | $2 "$ | (50.8) | 8" | (203.2) | 12 " | (304.8) | $6{ }^{\prime \prime}$ | (152.4) | $55 / 8^{\prime \prime}$ | (142.9) | $11 / 8^{\prime \prime}$ | (28.6) | $1{ }^{\prime \prime}$ | (25.4) |


| Part No. | H |  | $R$ |  | U |  | Tx W |  | Max. Rec. Load* |  | Approx. Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | Lbs. | (kN) | Lbs. | (kg) |
| B3084-1/2 | $1^{1 / 2 "}$ | (38.1) | 11/4" | (31.7) | 5/8" | (15.9) | $1 / 4^{1 \prime} \times 21 / 2^{\prime \prime}$ | (6.3 $\times 63.5$ ) | 1350 | (6.00) | 1096 | (497.1) |
| B3084-5/8 | 11/2" | (38.1) | $11 / 4^{\prime \prime}$ | (31.7) | $3 / 4 "$ | (19.0) | $1 / 4^{\prime \prime} \times 21 / 2^{\prime \prime}$ | $(6.3 \times 63.5)$ | 2160 | (9.61) | 1447 | (656.3) |
| B3084-3/4 | 11/2" | (38.1) | $11 / 4^{\prime \prime}$ | (31.7) | 7/8" | (22.2) | $3 / 8^{\prime \prime} \times 21 / 2^{\prime \prime}$ | $(9.5 \times 63.5)$ | 3230 | (14.37) | 1459 | (661.8) |
| B3084-7/8 | $2{ }^{\prime \prime}$ | (50.8) | $11 / 4{ }^{\prime \prime}$ | (31.7) | $1{ }^{\prime \prime}$ | (25.4) | $3 / 8{ }^{\prime \prime} \times 21 / 2^{\prime \prime}$ | $(9.5 \times 63.5)$ | 4480 | (19.93) | 2166 | (982.5) |
| B3084-1 | 2 " | (50.8) | $11 / 2^{\prime \prime}$ | (38.1) | $11 / 8{ }^{\prime \prime}$ | (28.6) | $1 / 2^{\prime \prime} \times 3$ " | (12.7 $\times 76.2$ ) | 5900 | (26.24) | 3145 | (1426.6) |
| B3084-1 $1 / 8$ | 3 " | (76.2) | $11 / 2^{\prime \prime}$ | (38.1) | $11 / 4^{\prime \prime}$ | (31.7) | $1 / 2^{\prime \prime} \times 3^{\prime \prime}$ | $(12.7 \times 76.2)$ | 7450 | (33.14) | 3170 | (1437.9) |
| B3084-11/4 | $3 "$ | (76.2) | 2 " | (50.8) | $13 / 8{ }^{\text {" }}$ | (34.9) | 5/8" $\times 4$ " | $(15.9 \times 101.6)$ | 9500 | (42.25) | 4312 | (1955.9) |
| B3084-1 1 /2 | $3{ }^{\prime \prime}$ | (76.2) | 21/2" | (63.5) | 15/8" | (41.3) | $3 / 4{ }^{\prime \prime} \times 5^{\prime \prime}$ | $(19.0 \times 127.0)$ | 13800 | (61.38) | 4470 | (2027.6) |

[^3]
## B3082 - Adjustable Rod Beam Attachment

Size Range: $3 / 8$ " -16 thru $7 / 8 "-9 \mathrm{rod}$
Material: Steel
Function: Designed for attaching hanger rod to bottom flange of beam or ceilings allowing for vertical adjustment where required.
Standard Finish: Plain. Contact customer service for alternative finishes and materials.
Order By: Part number and finish.


| Part No. | $\begin{gathered} \text { Rod Size } \\ \text { A } \end{gathered}$ | B |  | C |  | D |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | (mm) | in. | (mm) | in. | (mm) |
| B3082-3/8 | 3/8"-16 | 23/4" | (69.8) | 37/8" | (98.4) | 47/8" | (123.8) |
| B3082-1/2 | 1/2"-13 | $31 / 8{ }^{\prime \prime}$ | (97.4) | 43/4" | (120.6) | $6{ }^{\prime \prime}$ | (152.4) |
| B3082-5/8 | 5/8"-11 | 31/8" | (79.4) | 43/4" | (120.6) | $6{ }^{\prime \prime}$ | (152.4) |
| B3082-3/4 | $3 / 4{ }^{\prime \prime}-10$ | $3^{11 / 16 "}$ | (93.7) | $6^{1} / 4^{\prime \prime}$ | (158.7) | 73/4" | (196.8) |
| B3082-7/8 | 7/8"-9 | $33 / 4{ }^{\prime \prime}$ | (95.2) | 63/8" | (161.9) | 81/4" | (209.5) |


| Part No. | Dia. E <br> in. (mm) | Adjustment FDesign <br> Load |  | Approx.Wt./100 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. (mm) | Lbs. (kN) | Lbs. | (kg) |
| B3082-3/8 | 7/16" (11.1) | $2^{1 / 88^{\prime \prime}}$ (54.0) | 810 (3.60) | 53 | (24.0) |
| B3082-1/2 | 9/16" (14.3) | 25/16" (58.7) | 1130 (5.02) | 129 | (58.5) |
| B3082-5/8 | 9/16" (14.3) | 23/16" (55.6) | 1810 (8.05) | 128 | (58.0) |
| B3082-3/4 | 11/16" (17.5) | 29/16" (65.1) | 2710 (12.05) | 196 | (88.9) |
| B3082-7/8 | 13/16" (20.6) | 21/2" (63.5) | 3770 (16.77) | 282 | (127.9) |


[^0]:    *** With Safety Factor of 5.

[^1]:    * Based on allowable stresses shown in the ANSI code for pressure piping.

[^2]:    * Based on allowable stresses shown in the ANSI code for pressure piping.

[^3]:    * Based on allowable stresses shown in the ANSI code for pressure piping.

