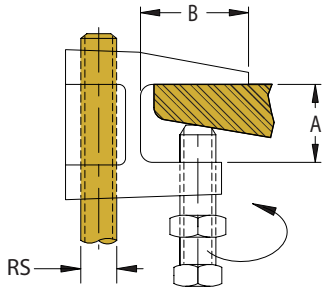
BEAM CLAMP 300

Universal Ductile Iron Beam Clamp

- Size Range: 3/8", 1/2", 5/8", 3/4" and 7/8" rod sizes
- Surface Finish: Black, Electro-zinc plated
- Structural attachment to top or bottom of metal beams, purlins, channel, or angle iron
- Setscrew made of hardened steel
- For retainer straps see Models 300C and 035RS
- Available with a HD finish by special order
- Conforms with Federal Specification WW-H-171 (Type 23), Manufacturers Standardization Society ANSI/MSS-SP-58 (Type 19 & 23), install in accordance with ANSI/MSS-SP-69
- Setscrew must be tightened and torqued onto the sloped side of the I-beam

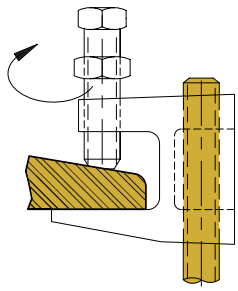
Part Number	RS	A	B	Set Screw	Max. Rec. Load (lbs)	
Plain Finish					Top	Bottom
3000037PL*	3/8	3/4"	1-1/8"	3/8"	500	250
3000050PL*	1/2	3/4"	1-1/8"	7/16"	950	760
3000062PL	5/8	3/4"	1-1/8"	3/8"	950	760
3000075PL	3/4	3/4"	1-1/8"	3/8"	950	760
3000087PL	7/8	3/4"	1-1/8"	3/8"	950	760
Electro-zinc Plated Finish						
3000037EG*	3/8	3/4"	1-1/8"	3/8"	500	250
3000050EG*	1/2	3/4"	1-1/8"	7/16"	950	760
3000062EG	5/8	3/4"	1-1/8"	3/8"	950	760
3000075EG	3/4	3/4"	1-1/8"	3/8"	950	760
3000087EG	7/8	3/4"	1-1/8"	3/8"	950	760

*Theses sizes are FM approved



TOP

May be mounted in either position



BOTTOM

Recommended Torque** (for setscrews):

Setscrew Size	1/4-20	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10
Foot-lbs	4	5	8	11	21	34
Nm	(5)	(7)	(11)	(15)	(28)	(46)

**Recognizing that torque wrenches are generally not used or available on many job sites, the setscrew should be tightened so it contacts the I-beam and then an additional 1/4 to 1/2 turn added.

DIMENSIONAL LEGEND

A	**Adjustment**	**BS**	**Bolt Size**
CL	**Center Line**	**H**	**Height**
HS	**Hole Size**	**ID**	**Inside Diameter**
L	**Length**	**MRI**	**Minimum Rod Insertion**
OD	**Outside Diameter**	**PS**	**Pipe Size**
R	**Radius**	**RS**	**Rod Size**
T	**Thickness**	**W**	**Width**

MATERIAL USED

CAST IRON:
Grey Cast Iron, ANSI®/ASTM® A 48-76, Class #20

MALLEABLE IRON:
ANSI/ASTM A 47-77, Grade Number 32510

SPRING STEEL:
High Carbon Steel, tempered.

STAINLESS STEEL:
(S4) ANSI Type 304 Stainless Steel: (S6) ANSI Type 316, ASTM A240

STEEL:
- M1020 Merchant Bar Quality, ANSI/ASTM A 36
- Prime Quality, Low Carbon, Hot Rolled Sheet, (may be Pickled and Oiled) ANSI/ASTM A 569
- Commercial Quality, Low Carbon, Cold Rolled, ANSI/ASTM A 366

INSTALLATION

1. All pipe supports, hangers, intermediate components and structural attachments must ONLY be used to support pipe, tubing or conduit as stated herein and are NEVER to be used for any other purpose.
2. All pipe supports and hangers are designed ONLY for STATIONARY piping unless otherwise noted.
3. All supports, hangers, clamps and accessories shown to use two nuts on the hanger rod or a jam nut must have nuts tightened securely to assure proper performance.

FINISHES

Standard Finish on all products is plain without coating unless noted. Alternative finishes may be available upon request.

CADDY® COAT:
Electrostatic coating.

COPPER:
CP Copper electroplate (no corrosion protection; for identification purposes only).
(Alternate finish is CADDY COAT.)

EPOXY: EP

LAMINATE:
FL Felt Lined

PAINTED:
RO Red Oxide Primer
PT Painted (Color may vary)

PLAIN:
PL Plain without coating

POLYMER: (normally applied by fluidized bed process, 5 mil minimum thickness)
PVC (VC) Polyvinyl Chloride

ZINC:
EG Zinc electroplate (ANSI/ASTM B 633)
PRE-GAL (PG) Continuous mill annealed and galvanized. Cut edges and welded areas are not zinc coated. Zinc near the uncoated metal becomes a sacrificial anode which protects the bare areas after exposure (ANSI/ASTM A 525 and 526).
HDG (HD) Hot Dipped Galvanization after fabrication; submerged in a bath of molten zinc; forms a metallurgical bond covering all surfaces (ANSI/ASTM A 123).
ZP Zinc and Phosphate coatings combined to provide a corrosion resistant barrier to resist rusting in accordance with ASTM B117-61 Federal Test Number QQM-151.

All dimensions are in inches unless otherwise noted.
See page 263 for finish and material descriptions. All material is Electro-Galvanized Steel unless otherwise noted.

CADDY® ERISTRUT LOAD APPLICATIONS

CHANNEL FRAMING

CADDY® ERISTRUT channel and continuous inserts are cold roll-formed from high quality carbon steel. The raw steel used conforms to the following ASTM® specifications:

GAGE	FINISH	ASTM NO.
12	GR; HDG; PG	A570 GR33 A446 GRA
14	GR; HDG; PG	A570 GR33 A446 GRA

FINISHES

GREEN POWDER COATED (GN)

CADDY ERISTRUT green polyurethane powder coating is electrostatically applied after fabrication. Once the channel is pre-treated and cleaned, it is coated with the powder. It proceeds through a baking process creating a chemical bond, resulting in a 1.5 mil thickness of polyurethane coating. This coating provides excellent resistance to chipping, peeling, and corrosion.

PRE-GALVANIZED (PG)

The zinc coating on this channel is produced by hot dipping the steel coil or sheet at the mill prior to fabrication. This process is also known as "mill galvanized". The steel is then rolled and processed to produce various sizes and configurations of channel. During the fabrication of this product, the cut edges and welded areas are no longer zinc coated. However, the zinc near the uncoated metal provides sufficient protection to any bare areas. Pre-galvanized channel is suitable for use in dry or mildly corrosive atmospheres.

HOT DIP GALVANIZED (HD)

The zinc coating in this finish is applied after rolling and fabrication. The bond formed by dipping the finished product in molten zinc, completely covers all surfaces, including edges and welds. This zinc coating is recommended for prolonged outdoor exposure and will normally protect steel for up to 20 years or more. For best results, any field cuts should be treated with a zinc-rich paint to ensure the integrity of the finish.

STAINLESS STEEL (S4 OR S6)

CADDY ERISTRUT offers channel and accessories in AISI Type 304 of Type 316 stainless steel. Both are non magnetic. Stainless steel reduces long term maintenance costs, is ideal for use in extreme ambient temperatures and is resistant to corrosion.

ALUMINUM (AL)

Aluminum channel offers low installation costs through ease of handling and field cutting, while providing excellent corrosion resistance. All aluminum channels are extruded from aluminum alloy 6063-T6. Strut fittings are made from aluminum alloy 5052-H32.

PLAIN (PL)

The plain finish designation means that the channel retains the oiled surface applied to the steel prior to the rolling process. This channel offers no protection from corrosion.

FITTINGS

CADDY ERISTRUT fittings, unless otherwise noted, are punch pressed from hot rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM specifications A575, A576, A635 and A36. The pickling of the steel provides a smooth scale-free surface.

HARDWARE

CADDY ERISTRUT's Channel nuts are designed to provide gripping power and ease during installation. Channel nuts are press formed, machined and hardened from steel that meets the requirements of ASTM A576, ASTM A675 and ASTM A108. Standard finish is electo-plated zinc (ASTM B663).

Channel nuts are rectangular with beveled end to permit quarter turn in the channel after insertion through the rolled opening. Toothed grooves engage the rolled edges of the channel and prevent movement of the nut after tightening of the bolt and nut. All bolts, screws and nuts meet the physical and chemical requirements of ASTM A307, SAE J429 and ASTM A563, as well as having unified inch screw threads (course, UNC). Metric threads are also available.

ELECTRO-PLATED ZINC (EG)

The Electro-plated Zinc process deposits a coating of zinc over the steel by electrolysis from a bath of zinc sales. EG finish is usually recommended for indoor use in relatively dry areas. Unless otherwise noted, the standard finish for all CADDY® ERISTRUT fittings and accessories is EG. This finish conforms with ASTM B633 SC1.