

# Superstrut®

## Beam Clamps (Series 500/700)



### Materials

Most products are manufactured from hot rolled carbon steel bars or hot rolled strip steel. Pipe rollers are cast iron. Products which are copper plated carry the letter "T" in the prefix.

### Design Loads

Where design loads are indicated, they provide for a safety factor of 3 in conformance with the "AMERICAN STANDARD CODE FOR PRESSURE PIPING."

GoldGalv® hardware finish is standard for all Superstrut products. This is a multi-process finish of electro-plated zinc, followed by gold colored zinc dichromate to give excellent corrosion resistance and a superior paint base. See page J2 for a complete description of the GoldGalv® hardware finish. GoldGalv® hardware will be furnished if no other finish is specified.



Superstrut®

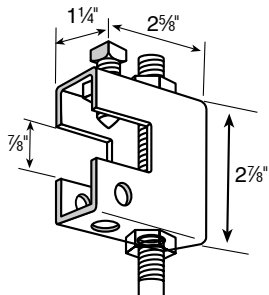
Standard Finish – GoldGalv®, unless otherwise stated.

**Thomas & Betts**

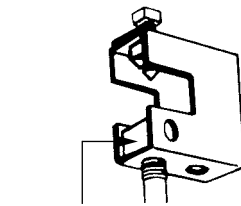
# Superstrut®

## Beam Clamps (Series 500/700)

### Beam Clamps for Hanging Rod

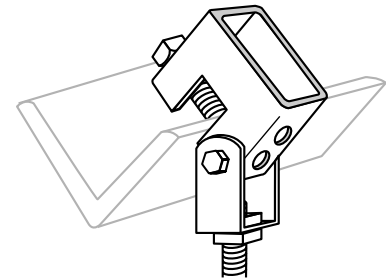


**U-562**  
Beam Clamp  
1/2" set screw included.  
Rod Size: 1/2"  
Design load lbs. - 500

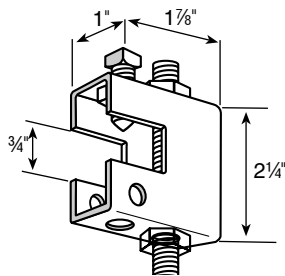


Square nut, order separately.

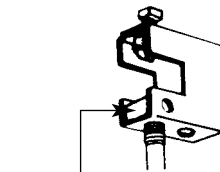
**U-562**  
Beam Clamp Optional Use  
1/2" set screw included.  
Rod sizes: 1/2"  
Design load lbs. - 800  
For 20° swivel application use  
ES-145-1/2 nut.



**US-562**  
Beam Clamp with Swing Hanger  
1/2" screw included.  
Rod sizes: 1/2"  
Design load lbs. - 800

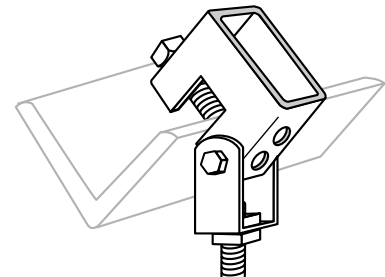


**U-563**  
Beam Clamp  
3/8" set screw included.  
Rod sizes: 3/8"  
Design load lbs. - 250

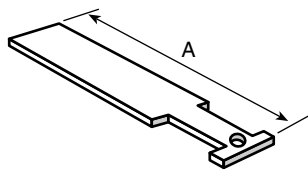


Square nut, order separately.

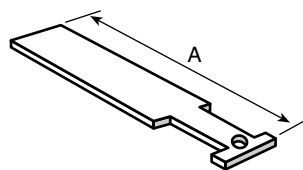
**U-563**  
Beam Clamp Optional Use  
3/8" set screw included.  
Rod sizes: 3/8"  
Design load lbs. - 400



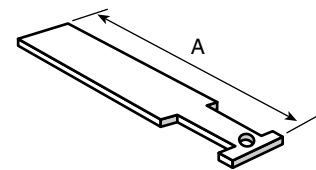
**US-563**  
Beam Clamp with Swing Hanger.  
3/8" set screw included.  
Rod sizes: 3/8".  
Design load lbs. - 540



**U-568**  
Beam Clamp Safety Strap  
Standard Finish - GoldGalv® brand  
For U-563 beam clamp.



**U-568**  
Beam Clamp Safety Strap  
Standard Finish - GoldGalv® brand  
For U-562 beam clamp.



**U-568**  
Beam Clamp Safety Strap  
Standard Finish - GoldGalv® brand  
For U-560 and U-564 beam clamp.

Cat. No.	Beam Flange Width	A	Std. Ctn.
<b>U-568-1</b>	6	8	50
<b>U-568-2</b>	9	11	50

16 ga. material.

Cat. No.	Beam Flange Width	A	Std. Ctn.
<b>U-568-3</b>	6	9	25
<b>U-568-4</b>	9	12	50
<b>U-568-5</b>	12	15	50

16 ga. material.

Cat. No.	Beam Flange Width	A	Std. Ctn.
<b>U-568-6</b>	6	9	25
<b>U-568-7</b>	9	12	25
<b>U-568-8</b>	12	15	25

16 ga. material.

Standard Finish – GoldGalv®, unless otherwise stated.

**Thomas & Betts**

# Superstrut®

## Finishes

### Green or White Urethane Powder Coated (Suffix GR or WH)

Urethane powder resins are applied electrostatically to the steel after fabrication. Once the material is completely covered with the powder-form urethane, it proceeds through a 400° baking process for ten minutes, creating a chemical bond. This results in a minimum of 1.5 mil thickness of urethane coating providing excellent resistance to chipping or peeling.

### Pregalvanized (Suffix PG)

A zinc coating is applied by hot-dipping the steel coil at the mill prior to fabrication. Once the material is worked by roll-forming, cutting, or punching, minimal protection is provided for raw edges. This weakness is typical with pre-coated material and affects the channel section around holes, extreme ends, and the edges of the “U” shape lips. Superstrut pregalvanized material is in conformance with ASTM A-525/G-90 specification standards, representing 0.90 ounces of zinc per square foot of steel. This finish is often referred to as “hot-dipped mill galvanized” or “mill galvanized.”

### Hot-Dipped Galvanized (Suffix HDG)

The material is zinc coated after fabrication providing total product protection on all surfaces. The fabricated channel or fitting is suspended and then dipped into tanks of hot zinc for a prolonged period, creating a coherent bond. The result is superior corrosion resistance as compared to pre-galvanized material. Hot-dipped galvanizing is not recommended for threaded products, considering the zinc coating thickness will often disrupt the threads. Superstrut hot-dipped galvanized is in conformance with ASTM Specifications A-123 (formerly A-386) and A-153. Superstrut channels maintain a minimum 1.5 ounces of zinc per square foot of steel or 2.5 mils (ASTM A-123, Thickness Grade 65). This finish is also referred to as “hot-dipped galvanized after fabrication.”

### Electrogalvanized (Suffix EG)

Often referred to as “zinc plated” or “electroplated zinc,” the steel and .5 mils of zinc are bonded by an electrolysis process. This is the identical process used in the GoldGalv® hardware finish without the numerous benefits of the gold colored dichromate conversion coat (see GoldGalv® hardware finish for more information). Electrogalvanizing is most commonly applied to small fittings, hardware, and threaded products.

### PVC Coated (Suffix PVC)

A polyvinyl chloride (PVC) plastic coating is fused to the channel, fitting or accessory after fabrication by immersing the part in fluidized PVC tanks. The fused-melt mixed powder PVC coating thickness is 15 mils (.015”) plus or minus five mils. PVC material is a thermoplastic and will soften in high temperature. An inherent weakness with PVC coatings occurs when field alterations are applied, such as cutting or drilling. These acts disrupt the sealed PVC product and warrant field touch-up. Thomas & Betts cannot be held responsible for field-altered PVC coated products.

### Copper Plated (“T” inserted as the second digit of the part number; Example: CTL-710-2)

Plain steel proceeds through a series of rinse tanks to clean the material surface. Once cleaned, the fabricated part is etched by dipping into an acid pickle bath to prepare the surface for adhesion. Copper is electrically applied by submerging in a copper bath. To seal the finish, the product continues to a sealer tank and is then dried by forced hot air.

### Black (Suffix B)

A black finish is raw steel with only a light oil finish as supplied by the steel manufacturer. There is no protection against red rust.

### Stainless Steel (Suffix SS)

Superstrut channel is supplied in type 304 stainless steel when required. Type 316 stainless steel may be available upon request.

### Aluminum (Suffix AL)

Superstrut channel and hardware are available in aluminum. See page J7 of this catalog for more information.

**Warning:** Load tables, charts, and design criteria provided in this catalog are intended as guides only. Selection of proper product, installation intervals, erection, and placement are the responsibility of the user.

Pipe hanger products when improperly used as tools of erection have occasionally failed. The user is cautioned to use the product only as it was intended to avoid an accident.

We reserve the right to change material and finish specifications without notice, to improve our products.