



CATALOG



**ENGINEERING CATALOG
ELECTRICAL & MECHANICAL SUPPORT SYSTEMS**

Metal Framing • Pipe Supports • Fittings, Nuts & Hardware • Pipe Hangers • Unipier



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INTERNATIONAL

The Power-Strut metal framing system can be regarded as a basic building material. Our metal framing system is an erector set concept, using channel and fittings to solve many applications. You can conceal metal framing in the basic structure of a building or run it along the surface of walls, ceilings and floors. An endless array of fittings provides freedom to work at virtually any angle along any surface to shape a support system that fits your exact needs.

A Broad and Versatile Metal Framing Line Backed



More Than 8,000 Quality Products

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Available finishes include hot-dipped galvanized, pregalvanized, electro-galvanized and painted, along with material choices of steel, stainless steel and aluminum.

Beyond its versatility as a basic building material, metal framing is popular for more exotic applications such as clean rooms, satellite dish supports, x-ray supports, storage racks, theater screens, tunnel stanchions and offshore platform catwalks. While the uses of metal framing are truly unlimited, they fall in to three major categories.



Electrical Systems

Versatile metal framing is widely used by electrical contractors to support conduit, panel boxes, raceway systems and other electrical components. In addition, Power-Strut channel can be used as a wiring raceway. Products marked with the UL symbol in this catalog are listed by Underwriter's Laboratories for use in raceway applications.

Channel raceways or support systems can be attached to ceilings, wood or steel beams, inside columns or imbedded in concrete. Trapeze systems can support conduit from either the top or bottom.



As a lighting support system, metal framing helps assure proper alignment over long spans. As a raceway system, channel offers an opportunity to reduce construction costs through more efficient use of installation labor. The exceptional versatility of channel gives contractors more flexibility in solving miscellaneous problems which may arise at the job site.

by a Leading Reputation for Quality and Service.

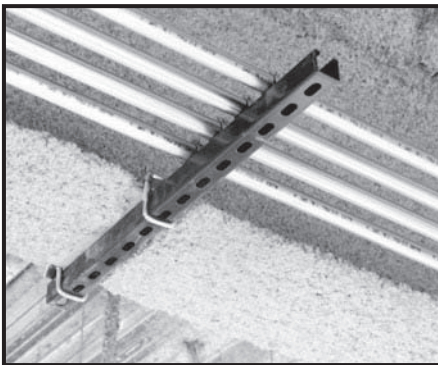


Mechanical Systems That Reduce Costs

For mechanical support of HVAC, plumbing and fire protection systems, the versatility of metal framing systems is unmatched. It is by far the most popular framing system with contractors because the wide variety of fittings and support devices available help solve virtually any support problem without expensive welding.

Piping stanchions, ceiling and wall-mounted supports and tunnel supports are common metal framing applications. Concrete insert, shelf bracket, wall and ceiling-mounted systems provide flexible solutions to any piping support applications.

In addition, pipe support products such as Power-Wrap and cushioned clamps provide insulation to prevent potential damage from noise, vibration, temperature variations and metal-to-metal contact.



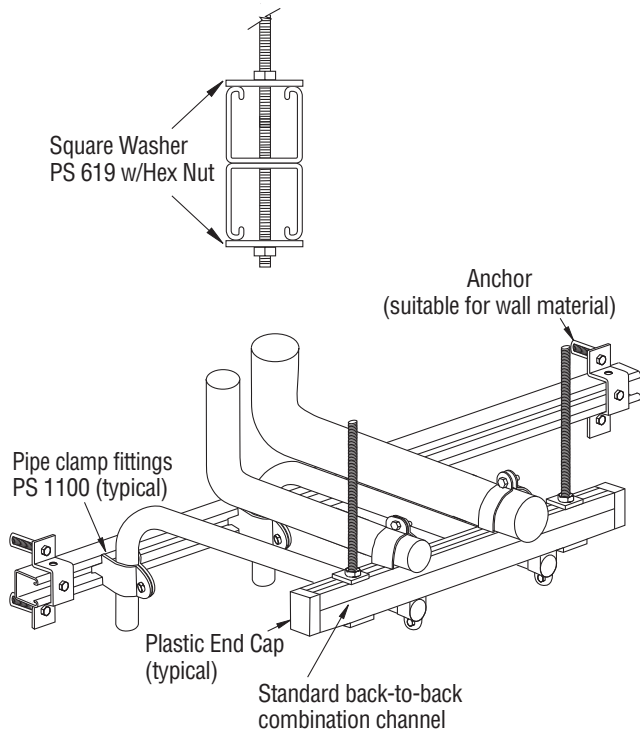
OEM Components and Maintenance

Metal Framing systems provide convenient solutions for maintenance and retrofit requirements in processing and manufacturing facilities. Also, Power-Strut products can be used as cost-effective components in OEM applications. For example, channel can be used as conveyor stands and side rails or provide framing for panel cabinetry products, or for generator, motor and pump supports.

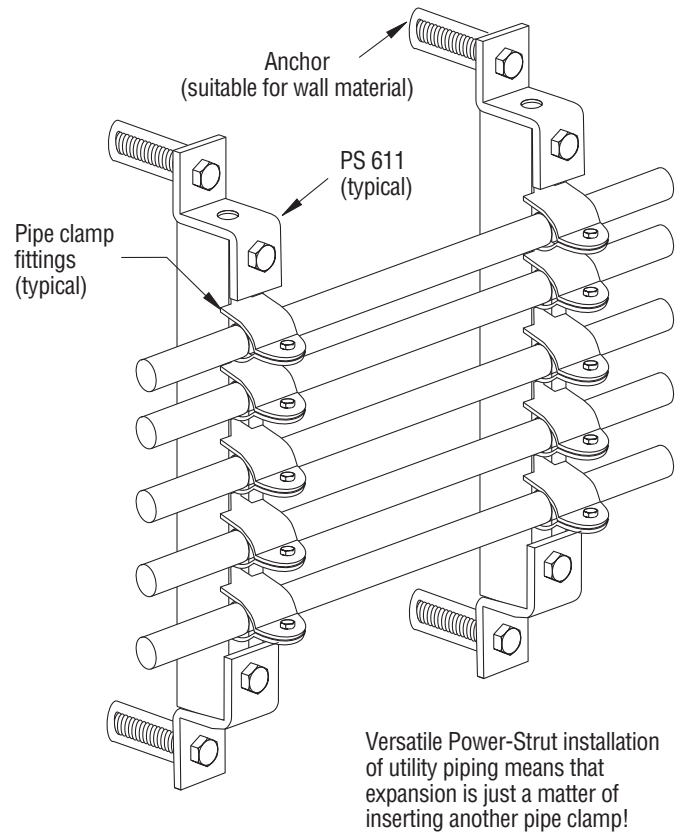
The complete line of products and leading reputation for quality and service make Power-Strut your practical choice for metal framing. Contact your local Power-Strut representative for additional information.



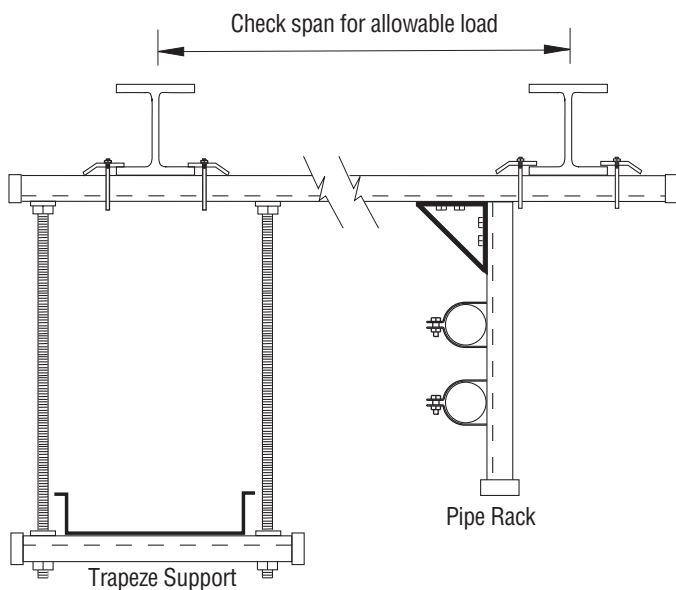
Overhead Support Vertical to Horizontal



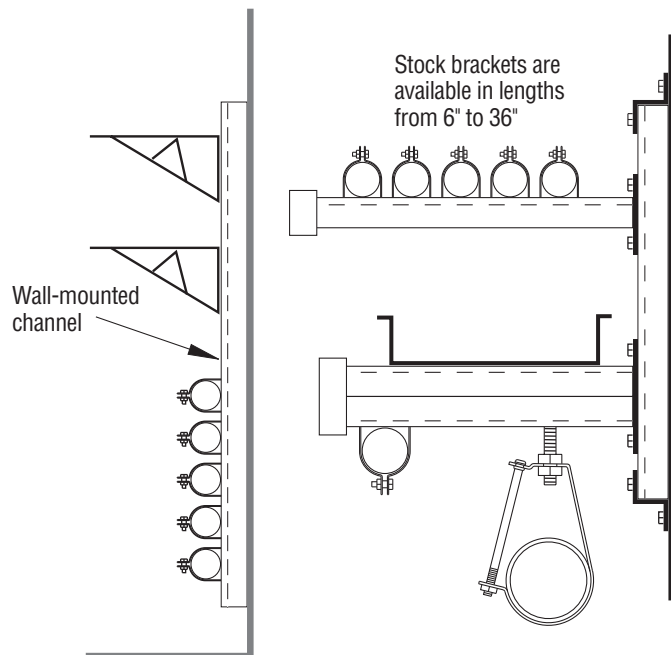
Wall Mount Organize & Control MultiShelf or Utility Support



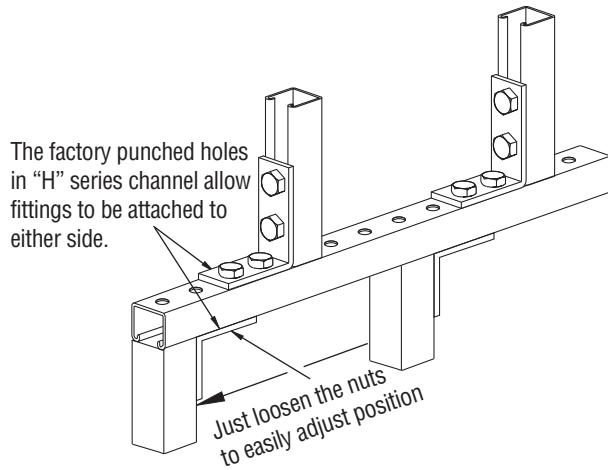
Overhead Multi-Use Support Systems Using Channel Attached to "I" Beams



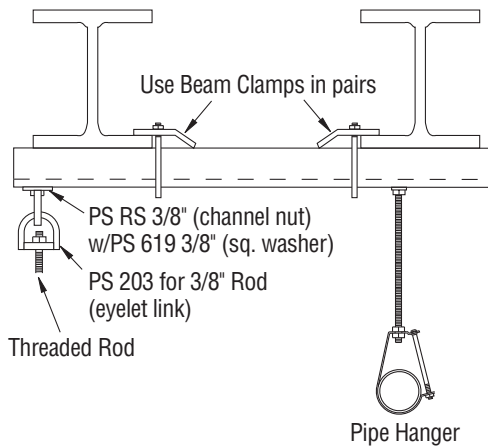
Wall Mounted Brackets



Standard Channel and Fitting Assembly

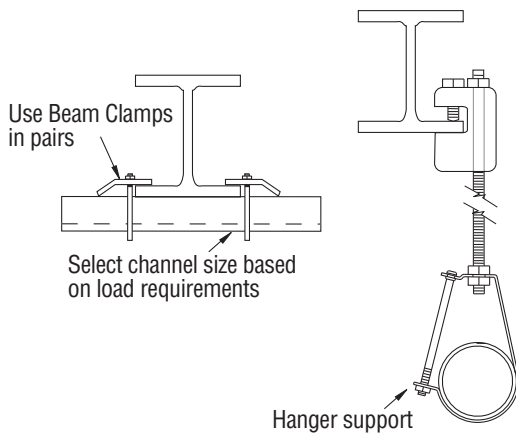


Supports for Threaded Rod Attachments Between Beams



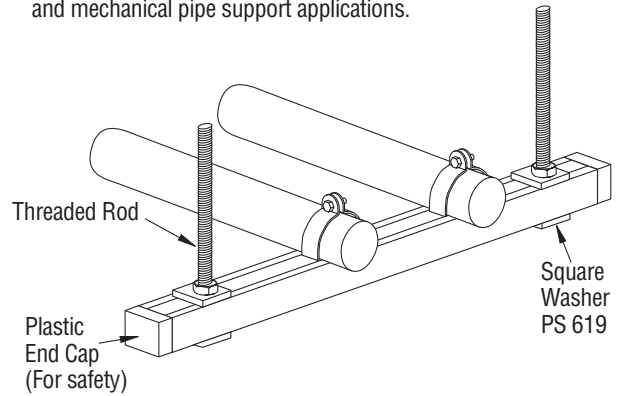
Select channel size based on load requirements

Supports for Threaded Rod Attachments to Single Beams

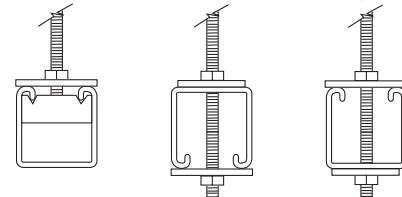


Trapeze Support System

Power-Strut metal framing is ideal for electrical and mechanical pipe support applications.

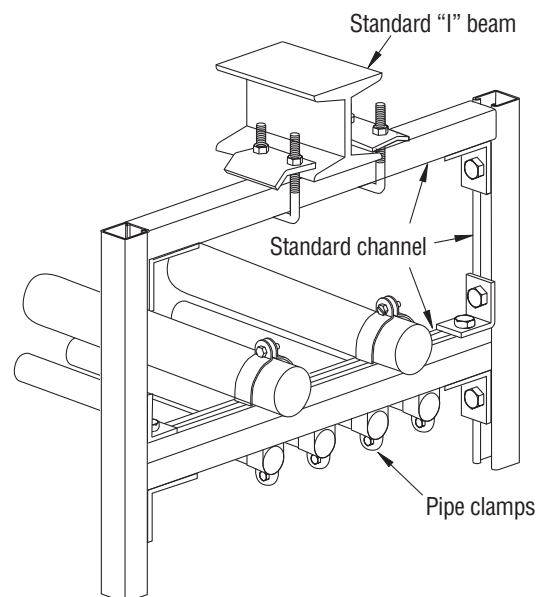


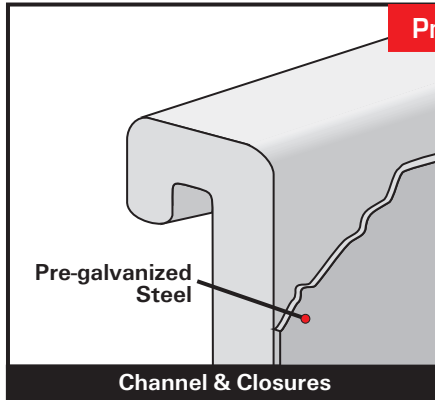
Acceptable Methods to Hang Channels



Pre-slotted channel allow through channel connections

Ganged Pipe Support

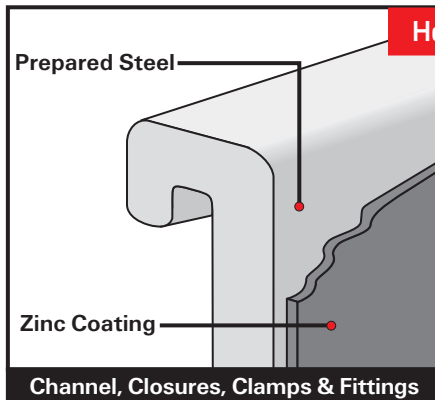




Pregalvanized (PG)

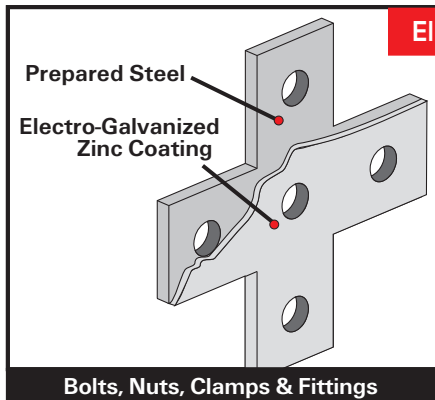
Material (steel strip) is coated with zinc by hot-dip process prior to roll-forming or press operations.

The zinc coating conforms to ASTM A653, Grade 90 General Requirement for Steel Sheet, Zinc-Coated (Galvanized) by Hot Dip Process.



Hot-Dipped Galvanized (HG)

Material is coated with zinc after being roll-formed or after all manufacturing operations are completed, conforming to ASTM A123 or A153.

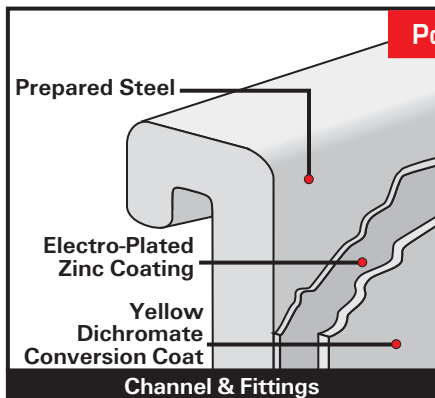


Electro-Galvanized (EG)

Fittings and hardware are electrolytically coated with zinc to commercial standards (ASTM-B633 Type III C1).

SC1 (mild) has a Zinc coating of 0.2 and is recommended for dry indoor use. SC1 is the standard finish thickness.

SC3 (Severe) has a Zinc coating of 0.5 mill and is the standard finish thickness only on UL Listed raceway products.



Power-Gold (ZD)

A Electro-galvanized zinc plate is applied with a cohesive molecular bond to the steel base metal, in compliance with the ASTM B633 standard. Yellow Dichromate is applied over the zinc and results in a gold appearance which acts as a nonporous barrier sealant.

SC1 (mild), recommended for dry indoor use, has a Zinc coating of 0.2 and is the standard finish thickness

SC3 (Severe) has a Zinc coating of 0.5 mill and is the standard finish thickness only on UL Listed raceway products.

ZINC COATING

Power-Strut products are available in four types of zinc coatings:

- Electroplated (EG)
- Pregalvanized (PG)
- Hot-Dipped Galvanized (HG)
- Yellow Dichromate (ZD)

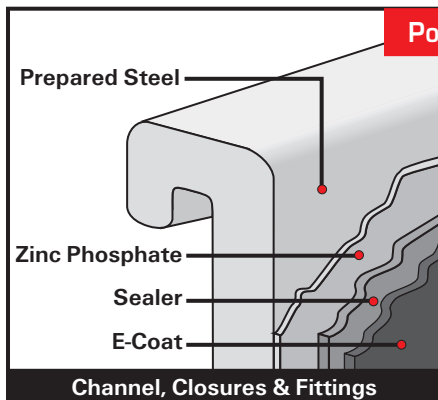
Zinc coatings offer two types of protection:

1. **Barrier:** The zinc coating protects the steel substrate from direct contact with the environment.
2. **Sacrificial:** The zinc coating will protect scratches, cut edges, etc. through an anodic sacrificial process.

The service life of zinc coating is directly related to the zinc coating thickness as shown below.

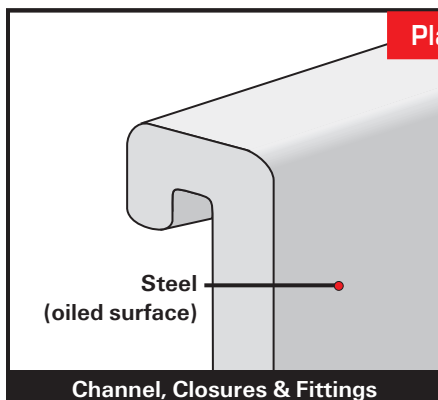
COMPARISON OF ZINC GALVANIZED FINISHES

| Finish | Zinc Thickness |
|--------------------------|----------------|
| Hot-Dipped Galvanized | 2.6 MIL |
| Pregalvanized | 0.75 MIL |
| Electro-Galvanized (SC1) | 0.2 MIL |
| Electro-Galvanized (SC3) | 0.5 MIL |
| Power-Gold (SC1) | 0.2 MIL |
| Power-Gold (SC3) | 0.5 MIL |



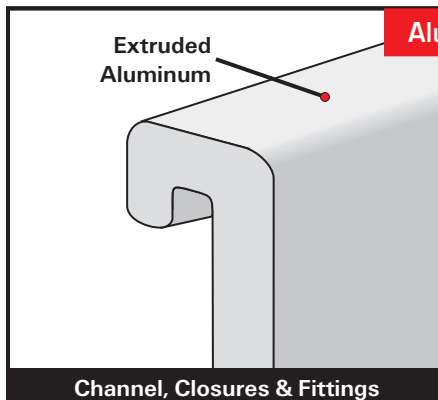
Power-Green® (GR)

Channel and parts are cleaned and phosphated. Immediately afterward, a uniform coat of rust-inhibiting thermoset epoxy paint is applied by cathodic electro-deposition and thoroughly baked.



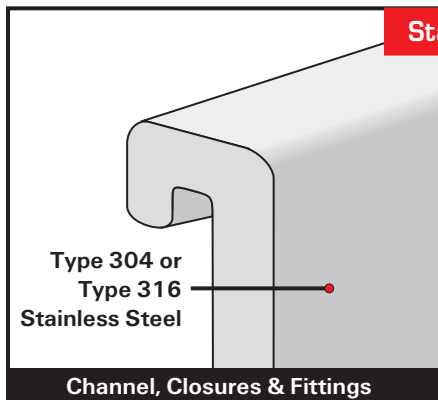
Plain (PL)

Plain finish designation means that the channel retains the oiled surface applied to the raw steel during the rolling process. The fittings have the original oiled surface of the bar-stock material.



Aluminum (AL)

Channel is extruded aluminum in accordance with ASTM B221 Type 6063-T6.



Stainless Steel (SS)

Material in accordance with ASTM A240 (Type 304 or type 316).

POWER-GREEN® TECHNICAL DATA

STEEL SUBSTRATE PREPARATION

Eight stage continuous cleaning, rinse, zinc phosphate conversion coating and sealer.

COATING

Thermoset epoxy

Color: Federal Highway Green
Color Tolerance Chart
PR Color No. 4.

Hardness: 2H+

Coating Process: Cathodic
Electrodeposition.

PERFORMANCE

Salt Spray:

Scribed: exceeds 400 hrs per
ASTM B117. (1/8 Creep)

Unscribed: exceeds 600 hours per
ASTM B117. (6% Red Rust)

ENVIRONMENTAL ISSUES

Formulated as a "heavy metal"- free coating (trace elements only).

Outgassing in service: essentially none at 350°F for 24 hrs.

Finishes (Ordering):

When ordering, add the finish to the part number.

Examples: PS 200-10 PG
PS 200-10 ZD
PS 200-10 GR
PS 200-10 HG

Materials:

Channel* & Closures – Pregalvanized

ASTM A653 Grade 33, Steel Sheet Zinc Coated by Hot Dip Process

Channel* – Plain, Painted or Hot Dip Galvanized

ASTM A-1011 Grade 33, Hot Rolled Carbon Steel Sheet and Strip, Structural Quality

Channel* – Stainless Steel

ASTM A-240, Type 304, Heat Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, Strip for Pressure Vessel

Channel* – Aluminum

ASTM B-221, Type 6063 T6, Aluminum Alloy Extruded Bar, Rod, Wire, Shape and Tube

Closures – Plain, Painted or Hot Dip Galvanized

ASTM A1008, Steel, Strip, Carbon, Cold-Rolled

Fittings* – Steel

1/4" Nominal Thickness – ASTM A-575 and A576†

3/8" Nominal Thickness – A36 (Structural Steel)

Fittings* – Aluminum

ASTM B-209

Accessories – Steel

Less than 1/4" Nominal Thickness – ASTM A-569, 1008-1010 Grade, or (when Pre-Galvanized) ASTM A-527/Coating Designation G90

Pipe Clamps – Steel

A-1011SS Grade 33

Pipe Clamps – Stainless Steel

ASTM A-240, Type 304

Pipe Clamps – Aluminum

ASTM B-209, 5052, H32 Grade, Sheet and Plate

Channel Nuts

ASTM (3/8" & 1/2") A-576 Grade 1015M, A-675 (1/4") Grade 60, Case Hardened to RC25 min.

Hex Nuts and Bolts

ASTM A-563, Grade A and ASTM A-307, Grade A

Threaded Rod

Low Carbon Steel

Yield = 32 ksi min.

Tensile = 52 ksi min

* Channel referenced is 1 5/8" wide, fittings referenced are for 1 5/8" channel.

† Some 1/4" fittings are produced from A-36 Structural Steel.

Product Load Testing

Product testing is an important Part of Power-Strut's Quality Assurance Program. We utilize our own testing facilities, as well as those of independent testing laboratories, to determine design loads with proper and adequate safety factors. These design loads are indicated, where applicable, throughout the catalog. Loads are based on AISI Specification For The Design Of Cold-Formed Steel Structural Members, 2007 Edition.

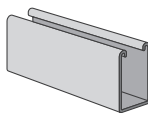
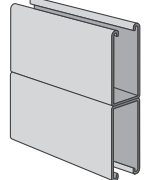
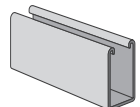
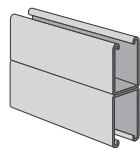
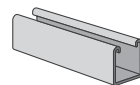
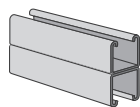
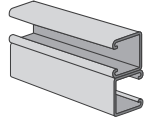
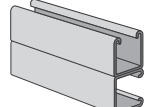
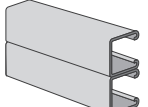
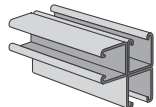
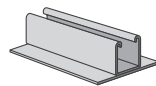
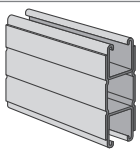
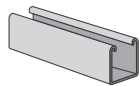
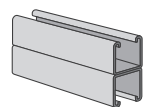
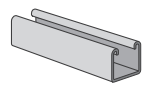
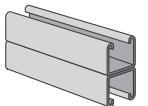
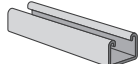
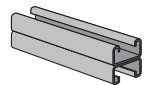
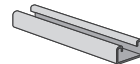
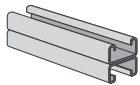
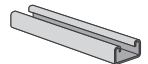
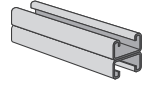
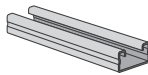
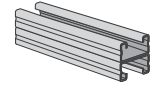
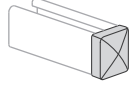
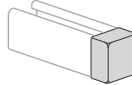

Destructive and non-destructive testing procedures are used to test for variables such as corrosion, conductivity, electro-static dissipation, ultra-violet resistance, wind resistance, dimensional accuracy, material integrity and slip resistance.



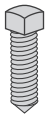





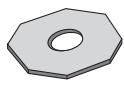

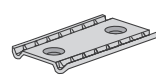

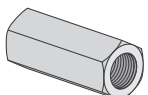
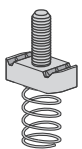
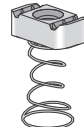
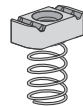



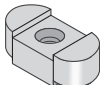
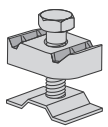
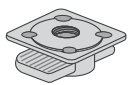
In short, if there's a specification to meet, Power-Strut will develop a test to quantify and verify it. Using design properties of the Power-Strut framing members, load data given in this catalog, and/or design procedures of the American Iron & Steel Institute Specification For The Design Of Cold-Formed Steel Structural Members, 2007 Edition, it is possible to design any type of structure within the capabilities of the system.

Assemblies or connections that cannot be calculated using provisions of the AISI specifications must be established by application-specific tests.

We reserve the right to make specification changes without notice.

While every effort has been made to assure the accuracy of information contained in this catalog at the time of publication, we cannot accept responsibility for inaccuracies resulting from undetected errors or omissions.

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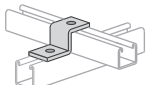
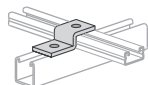
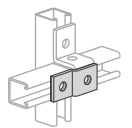
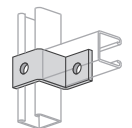
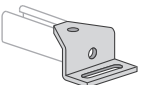
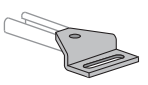
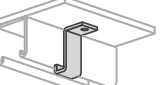
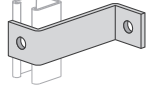
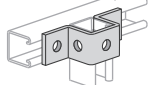
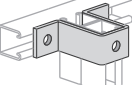
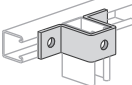
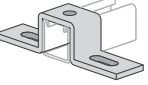
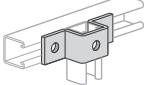
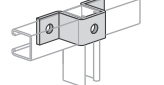
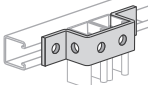
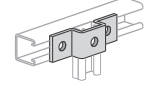
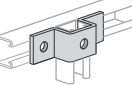
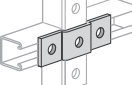
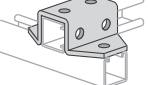
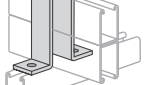
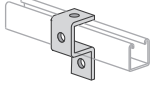
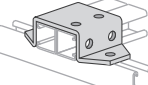
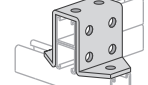
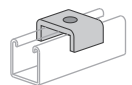
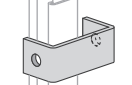
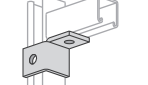
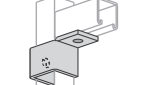
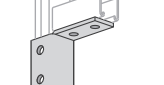





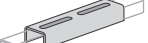

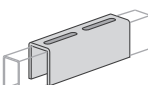
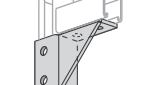
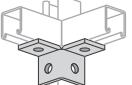
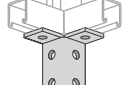
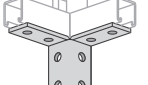

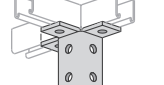
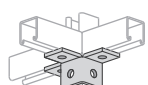
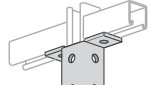
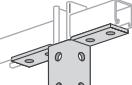
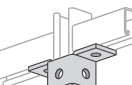
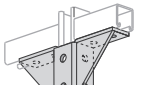
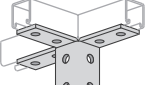
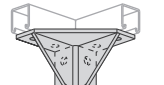
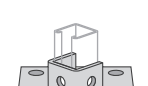
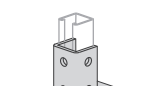
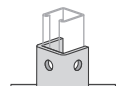
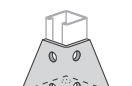
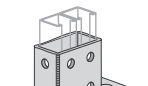
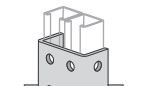
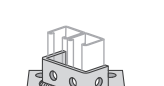


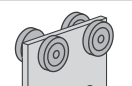

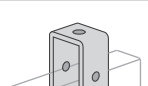





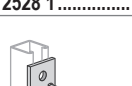
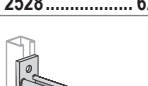
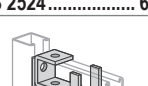
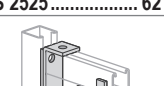
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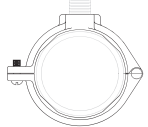
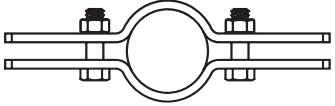

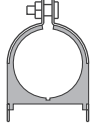
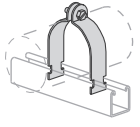
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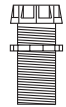
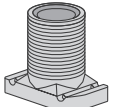
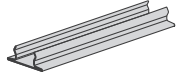
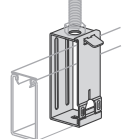
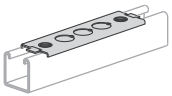
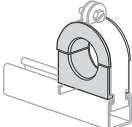
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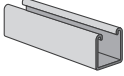
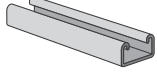


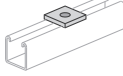
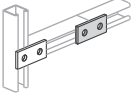
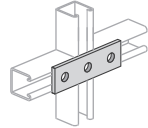
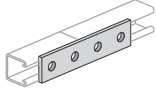
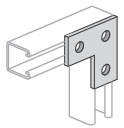
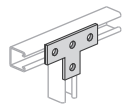
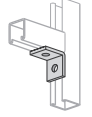
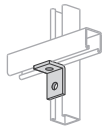
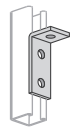
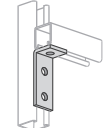
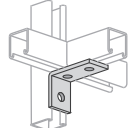
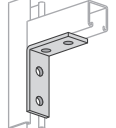
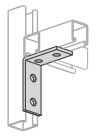
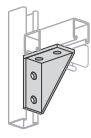
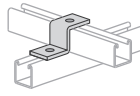
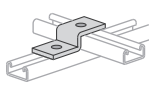
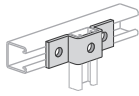

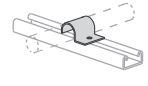
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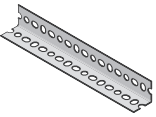
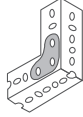
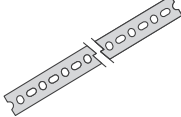
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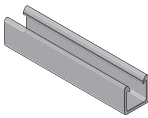
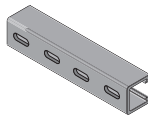
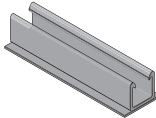
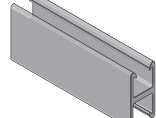
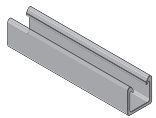
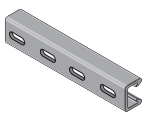
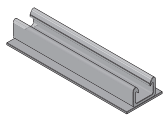
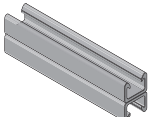
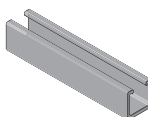
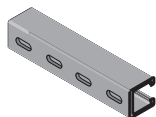
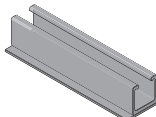
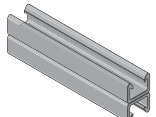
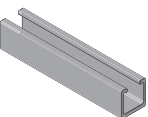
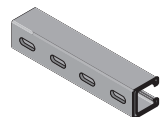
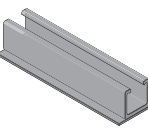
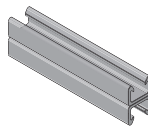
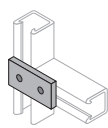
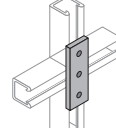
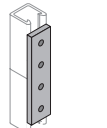
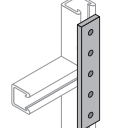
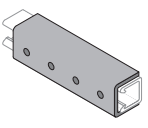
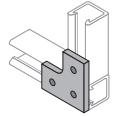
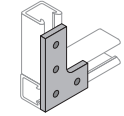
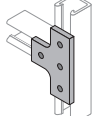
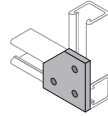
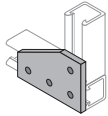
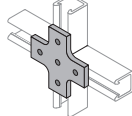
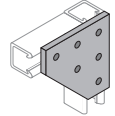
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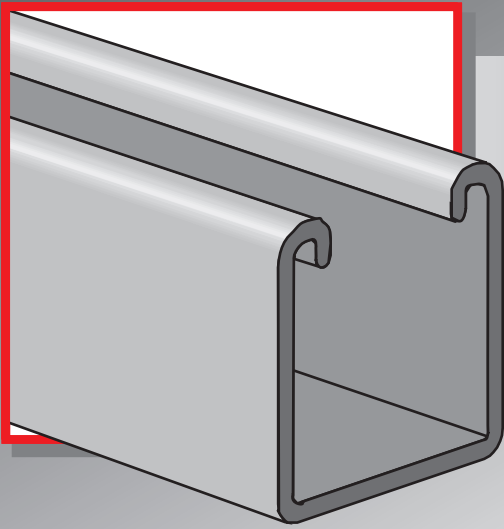
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CHANNEL

Power-Strut channel sections are produced by multiple sets of forming rolls which cold-work strip steel into the channel configuration. This type of roll forming produces a uniform channel section held to the specifications of MFMA-4.

MATERIALS:

Plain and painted green channels are formed from structural quality strip steel which conforms to the requirements of ASTM A-1011 SS Grade 33. Pre-galvanized channel conforms to the requirements of ASTM A-653 Grade 33.

STANDARD LENGTHS:

Stock lengths are 10 and 20 feet. Special lengths are available upon request.

STANDARD FINISHES:

Standard Power-Strut channel is available in plain, painted green, zinc dichromate or pre-galvanized finishes.

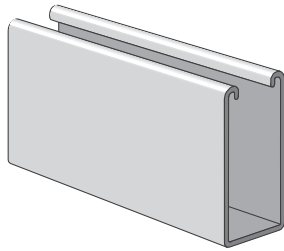
ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number. See page 8 - 9 for finish abbreviations and an example.

| Type of Load | Safety Factor to Yield Strength | Safety Factor to Ultimate Strength |
|--------------|---------------------------------|------------------------------------|
| Beam Loads | 1.67 | 2.0 |
| Column Load | 1.80 | 2.2 |

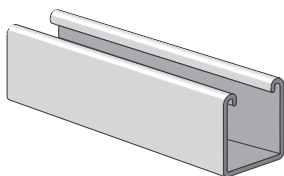
PS 100 – 1⁵/₈" x 3¹/₄" x 12 ga.

See Pages 22-23



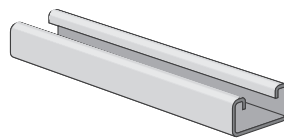
PS 210 – 1⁵/₈" x 1⁵/₈" x 14 ga.

See Pages 30-31



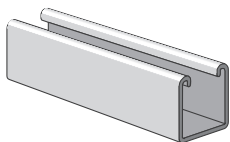
PS 500 – 1⁵/₈" x 1³/₁₆" x 14 ga.

See Pages 36-37



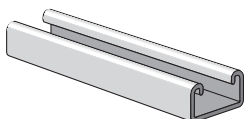
PS 600J – 1³/₁₆" x 1³/₁₆" x 19 ga.

See Junior Channel
Page 124



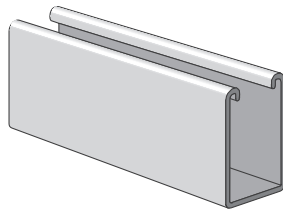
PS 700J – 1³/₁₆" x 1³/₃₂" x 19 ga.

See Junior Channel
Page 125



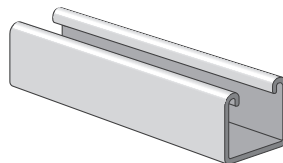
PS 150 – 1⁵/₈" x 2⁷/₁₆" x 12 ga.

See Pages 24-25



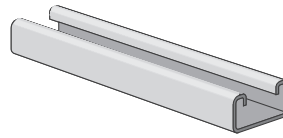
PS 300 – 1⁵/₈" x 1³/₈" x 12 ga.

See Pages 32 -33



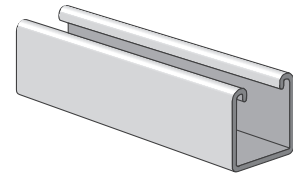
PS 520 – 1⁵/₈" x 1³/₁₆" x 12 ga.

See Pages 38-39



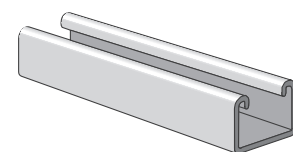
PS 200 – 1⁵/₈" x 1⁵/₈" x 12 ga.

See Pages 26-29



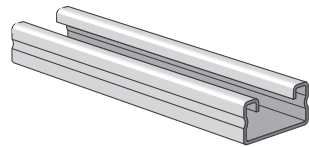
PS 400 – 1⁵/₈" x 1" x 12 ga.

See Pages 34-35



PS 560 – 1⁵/₈" x 1³/₁₆" x 16 ga.

See Pages 40-41



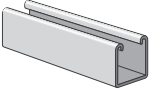
Maximum Allowable Pull-Out and Slip Loads

| Channel Nut Size-Thread | Allowable Gauge Channel | Pull-Out Strength (Lbs.) | Resistance to Slip (Lbs.) | Torque Ft.-Lbs. |
|-------------------------|-------------------------|--------------------------|---------------------------|-----------------|
| 3/4"-10 | 12 Gauge | 2,500 | 1,700 | *125 |
| 5/8"-11 | | 2,500 | 1,500 | *100 |
| 1/2"-13 | | 2,000 | 1,500 | 50 |
| 7/16"-14 | | 1,400 | 1,000 | 35 |
| 3/8"-16 | | 1,000 | 800 | 19 |
| 5/16"-18 | | 800 | 500 | 11 |
| 1/4"-20 | | 600 | 300 | 6 |
| 1/2"-13 | 12 Gauge | 1,500 | 1,500 | 50 |
| 3/8"-16 | | 1,000 | 800 | 19 |
| 5/16"-18 | | 800 | 500 | 11 |
| 1/4"-20 | | 600 | 300 | 6 |
| 1/2"-13 | 14 Gauge | 1,400 | 1,000 | 50 |
| 3/8"-16 | | 1,000 | 750 | 19 |
| 5/16"-18 | | 800 | 400 | 11 |
| 1/4"-20 | | 600 | 300 | 6 |
| 1/2"-13 | 16 Gauge | 1,000 | 1,000 | 50 |
| 3/8"-16 | | 1,000 | 750 | 19 |
| 5/16"-18 | | 800 | 400 | 11 |
| 1/4"-20 | | 600 | 300 | 6 |

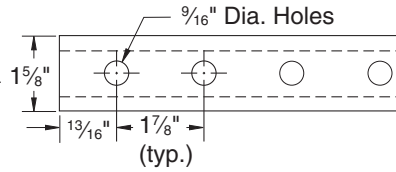
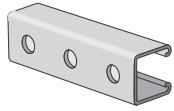
* May require 3/8" or 1/2" thick fitting.

Nut design loads include a minimum safety factor of 3.

Note: Refer to the Channel Nut Selection Chart on page 44 for the part number

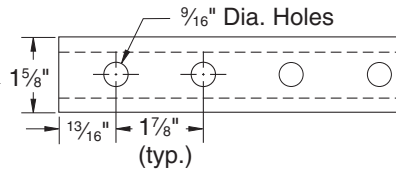
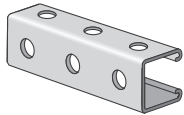


Channel with Holes (H)



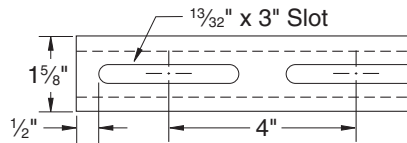
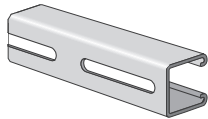
| Available With These Select Channel Types: | | | | | | | | | | | | |
|--------------------------------------------|--------|------------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
| PS 100 | PS 150 | PS 150 2T3 | PS 200 | PS 200 2T3 | PS 210 | PS 300 | PS 300 2T3 | PS 400 | PS 500 | PS 500 2T3 | PS 520 | PS 560 |
| ■ | ■ | | ■ | | ■ | ■ | | ■ | ■ | | ■ | |

Channel with Holes on Three Sides (H3)



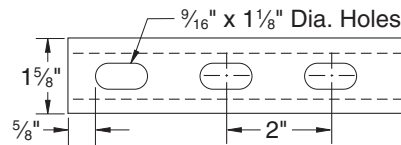
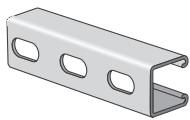
| Available With These Select Channel Types: | | | | | | | | | | | | |
|--------------------------------------------|--------|------------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
| PS 100 | PS 150 | PS 150 2T3 | PS 200 | PS 200 2T3 | PS 210 | PS 300 | PS 300 2T3 | PS 400 | PS 500 | PS 500 2T3 | PS 520 | PS 560 |
| | | | ■ | | | | | | | | | |

Channel with Slots (S)



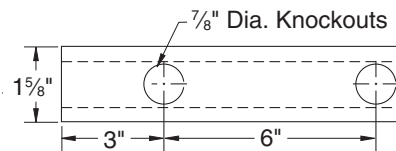
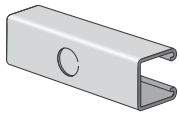
| Available With These Select Channel Types: | | | | | | | | | | | | |
|--------------------------------------------|--------|------------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
| PS 100 | PS 150 | PS 150 2T3 | PS 200 | PS 200 2T3 | PS 210 | PS 300 | PS 300 2T3 | PS 400 | PS 500 | PS 500 2T3 | PS 520 | PS 560 |
| ■ | ■ | | ■ | | ■ | ■ | | ■ | ■ | | ■ | ■ |

Channel with Elongated Holes (EH)



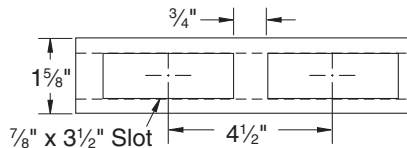
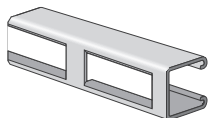
| Available With These Select Channel Types: | | | | | | | | | | | | |
|--------------------------------------------|--------|------------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
| PS 100 | PS 150 | PS 150 2T3 | PS 200 | PS 200 2T3 | PS 210 | PS 300 | PS 300 2T3 | PS 400 | PS 500 | PS 500 2T3 | PS 520 | PS 560 |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

Channel with Knockouts (KO6)



| Available With These Select Channel Types: | | | | | | | | | | | | |
|--------------------------------------------|--------|------------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
| PS 100 | PS 150 | PS 150 2T3 | PS 200 | PS 200 2T3 | PS 210 | PS 300 | PS 300 2T3 | PS 400 | PS 500 | PS 500 2T3 | PS 520 | PS 560 |
| ■ | ■ | | ■ | | ■ | | | | | | | |

Channel with Slotted Back (SB)



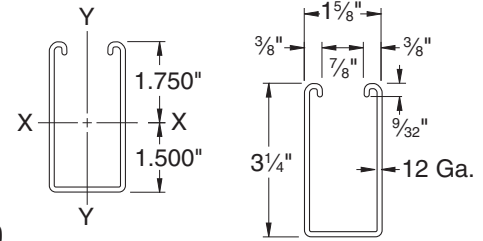
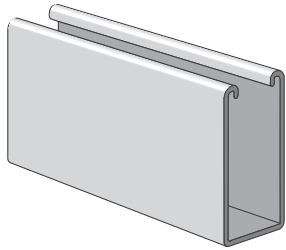
| Available With These Select Channel Types: | | | | | | | | | | | | |
|--------------------------------------------|--------|------------|--------|------------|--------|--------|------------|--------|--------|------------|--------|--------|
| PS 100 | PS 150 | PS 150 2T3 | PS 200 | PS 200 2T3 | PS 210 | PS 300 | PS 300 2T3 | PS 400 | PS 500 | PS 500 2T3 | PS 520 | PS 560 |
| | | | ■ | | | | | | | | | |

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



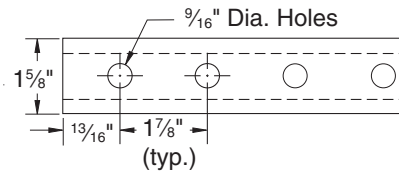
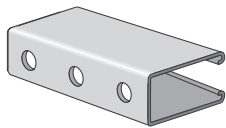
PS 100 – Steel Channel (1 5/8" x 3 1/4" x 12 ga.)



ELEMENTS OF SECTION – PS 100

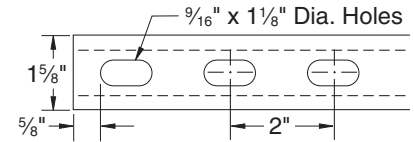
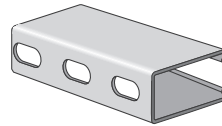
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 305 | 0.897 | 1.098 | 0.627 | 1.107 | 0.433 | 0.533 | 0.695 |

PS 100 H – Channel with Holes



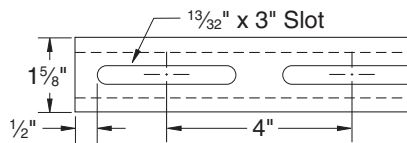
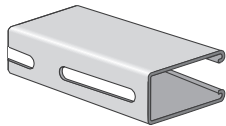
Weight: 300 lbs./100 ft.

PS 100 EH – Channel with Elongated Holes



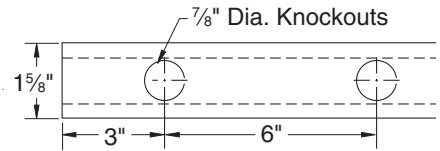
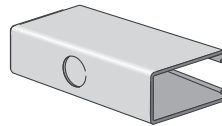
Weight: 300 lbs./100 ft.

PS 100 S – Channel with Slots



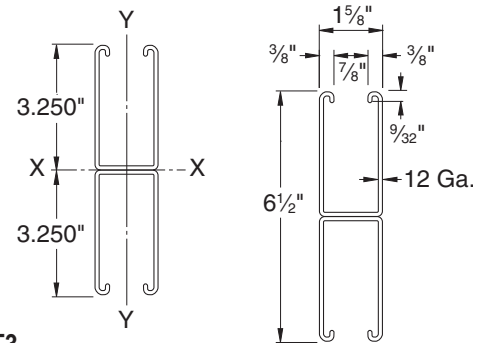
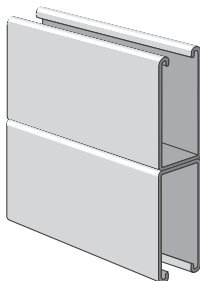
Weight: 300 lbs./100 ft.

PS 100 K06 – Channel with Knockouts



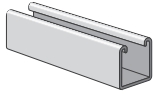
Weight: 305 lbs./100 ft.

PS 100 2T3 – Steel Channel (1 5/8" x 6 1/2" x 12 ga.)



ELEMENTS OF SECTION – PS 100 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 610 | 1.793 | 6.226 | 1.916 | 1.864 | 0.866 | 1.066 | 0.695 |



PS 100 & PS 100 2T3 – Load Data

BEAM LOADING – PS 100

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 5,260 | 0.03 | 5,260 | 5,260 | 5,260 |
| 36 | 3,500 | 0.07 | 3,500 | 3,500 | 3,500 |
| 48 | 2,630 | 0.12 | 2,630 | 2,630 | 2,630 |
| 60 | 2,100 | 0.18 | 2,100 | 2,100 | 1,920 |
| 72 | 1,750 | 0.26 | 1,750 | 1,750 | 1,330 |
| 84 | 1,500 | 0.36 | 1,500 | 1,470 | 980 |
| 96 | 1,310 | 0.47 | 1,310 | 1,120 | 750 |
| 108 | 1,170 | 0.59 | 1,170 | 890 | 590 |
| 120 | 1,050 | 0.73 | 960 | 720 | 480 |
| 144 | 880 | 1.06 | 670 | 500 | 330 |
| 168 | 750 | 1.43 | 490 | 370 | 240 |
| 192 | 660 | 1.88 | 370 | 280 | 190 |
| 216 | 580 | 2.35 | 300 | 220 | 150 |
| 240 | 530 | 2.95 | 240 | 180 | 120 |

* Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

| | | | |
|-----------|-----|------------|-----|
| PS-100-EH | 15% | PS-100-S | 15% |
| PS-100-H | 10% | PS-100-K06 | 5% |

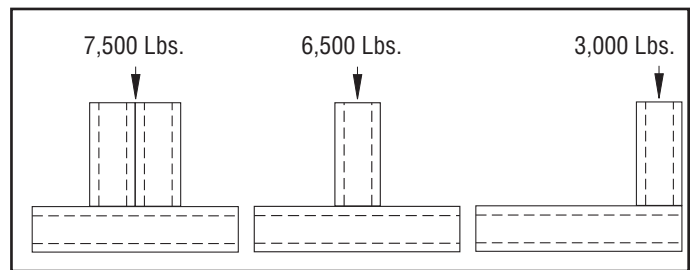
COLUMN LOADING – PS 100

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 5,650 | 16,870 | 15,180 | 12,850 | 10,600 |
| 36 | 4,690 | 13,140 | 10,600 | 7,650 | 5,660 |
| 48 | 3,560 | 9,550 | 6,860 | 4,790 | 3,660 |
| 60 | 2,730 | 6,680 | 4,790 | 3,450 | 2,710 |
| 72 | 2,160 | 4,980 | 3,660 | 2,710 | 2,170 |
| 84 | 1,760 | 3,950 | 2,960 | 2,240 | 1,820 |
| 96 | 1,500 | 3,270 | 2,500 | 1,930 | 1,580 |
| 108 | 1,310 | 2,800 | 2,170 | 1,690 | 1,390 |
| 120 | 1,170 | 2,450 | 1,930 | 1,510 | ** |
| 144 | 980 | 1,980 | 1,580 | ** | ** |
| 168 | 850 | 1,670 | 1,340 | ** | ** |

** KL/L > 200

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS100 – Crush Loads



Resistance to Slip – 1,500 lbs. per bolt when 1/2" PS NS channel nuts are used.

Pull Out Strength – 2,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 100 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 6,890 * | 0.01 | 6,890 * | 6,890 * | 6,890 * |
| 36 | 6,890 * | 0.02 | 6,890 * | 6,890 * | 6,890 * |
| 48 | 6,890 * | 0.05 | 6,890 * | 6,890 * | 6,890 * |
| 60 | 6,420 | 0.10 | 6,420 | 6,420 | 6,420 |
| 72 | 5,350 | 0.14 | 5,350 | 5,350 | 5,350 |
| 84 | 4,590 | 0.19 | 4,590 | 4,590 | 4,590 |
| 96 | 4,020 | 0.25 | 4,020 | 4,020 | 4,020 |
| 108 | 3,570 | 0.32 | 3,570 | 3,570 | 3,360 |
| 120 | 3,210 | 0.39 | 3,210 | 3,210 | 2,720 |
| 144 | 2,680 | 0.57 | 2,680 | 2,680 | 1,890 |
| 168 | 2,290 | 0.77 | 2,290 | 2,080 | 1,390 |
| 192 | 2,010 | 1.01 | 2,010 | 1,590 | 1,060 |
| 216 | 1,780 | 1.27 | 1,680 | 1,260 | 840 |
| 240 | 1,610 | 1.58 | 1,360 | 1,020 | 680 |

* Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 100 2T3

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 10,670 | 39,230 | 38,030 | 36,210 | 34,240 |
| 36 | 10,350 | 36,450 | 34,240 | 31,200 | 28,260 |
| 48 | 9,940 | 33,220 | 30,200 | 26,430 | 23,190 |
| 60 | 9,290 | 29,950 | 26,430 | 22,470 | 19,380 |
| 72 | 8,560 | 26,880 | 23,190 | 19,380 | 16,450 |
| 84 | 7,860 | 24,140 | 20,520 | 17,040 | 12,090 |
| 96 | 7,220 | 21,790 | 18,370 | 13,330 | 9,250 |
| 108 | 6,600 | 19,790 | 16,450 | 10,530 | 7,310 |
| 120 | 5,760 | 18,130 | 13,330 | 8,530 | ** |
| 144 | 4,390 | 14,020 | 9,250 | ** | ** |
| 168 | 3,420 | 10,300 | 6,800 | ** | ** |

** KL/L > 200

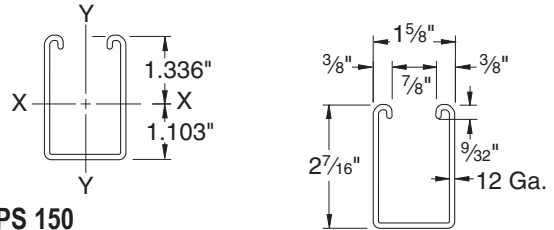
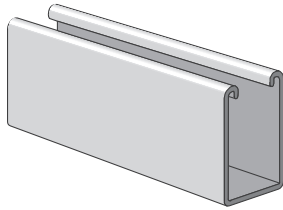
Column loads are for allowable axial loads and must be reduced for eccentric loading.

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



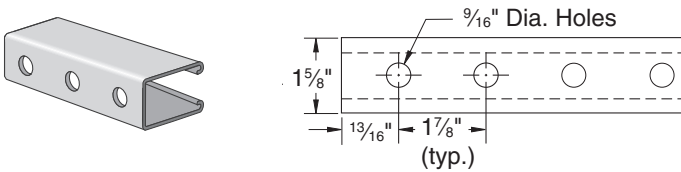
PS 150 – Steel Channel (1 5/8" x 2 7/16" x 12 ga.)



ELEMENTS OF SECTION – PS 150

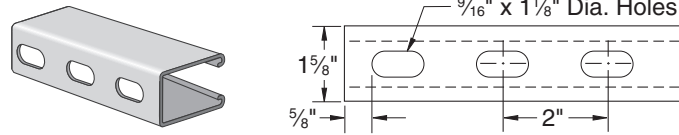
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 247 | 0.726 | 0.522 | 0.390 | 0.848 | 0.334 | 0.411 | 0.679 |

PS 150 H – Channel with Holes



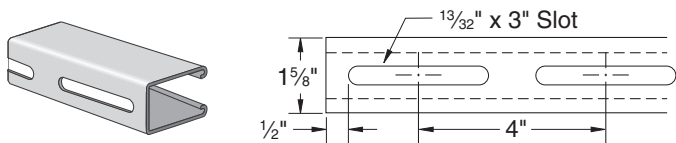
Weight: 242 lbs./100 ft.

PS 150 EH – Channel with Elongated Holes



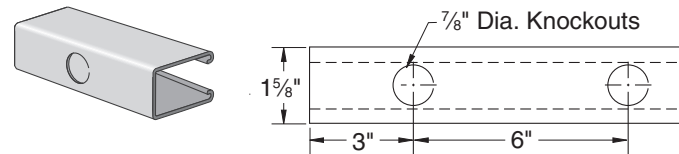
Weight: 242 lbs./100 ft.

PS 150 S – Channel with Slots



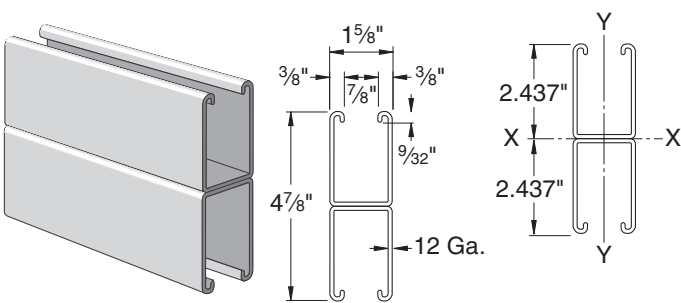
Weight: 242 lbs./100 ft.

PS 150 K06 – Channel with Knockouts

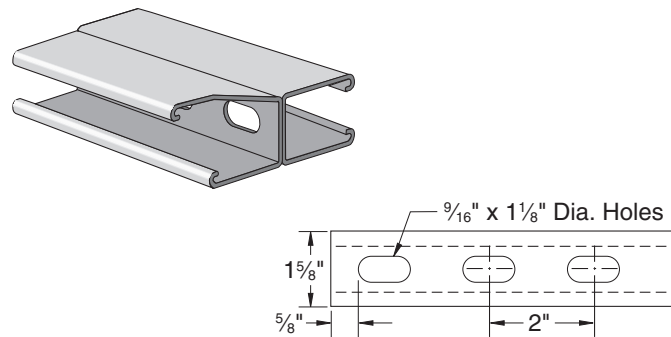


Weight: 247 lbs./100 ft.

PS 150 2T3 – Steel Channel (1 5/8" x 4 7/8" x 12 ga.)



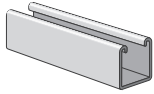
PS 150 2T3 EH – Channel with Elongated Holes



Weight: 494 lbs./100 ft.

ELEMENTS OF SECTION – PS 150 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 494 | 1.452 | 2.805 | 1.151 | 1.390 | 0.669 | 0.823 | 0.679 |



PS 150 & PS 150 2T3 – Load Data

BEAM LOADING – PS 150

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 3,270 | 0.04 | 3,270 | 3,270 | 3,270 |
| 36 | 2,180 | 0.09 | 2,180 | 2,180 | 2,180 |
| 48 | 1,640 | 0.15 | 1,640 | 1,640 | 1,420 |
| 60 | 1,310 | 0.24 | 1,310 | 1,310 | 910 |
| 72 | 1,090 | 0.34 | 1,090 | 950 | 630 |
| 84 | 940 | 0.47 | 930 | 700 | 470 |
| 96 | 820 | 0.61 | 710 | 530 | 360 |
| 108 | 730 | 0.78 | 560 | 420 | 280 |
| 120 | 650 | 0.95 | 460 | 340 | 230 |
| 144 | 550 | 1.39 | 320 | 240 | 160 |
| 168 | 470 | 1.89 | 230 | 170 | 120 |
| 192 | 410 | 2.46 | 180 | 130 | 90 |
| 216 | 360 | 3.07 | 140 | 110 | 70 |
| 240 | 330 | 3.86 | 110 | 90 | 60 |

* Bearing load may govern capacity.

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

- PS-150-EH 15%
- PS-150-S 15%
- PS-150-H 10%
- PS-150-K06 5%

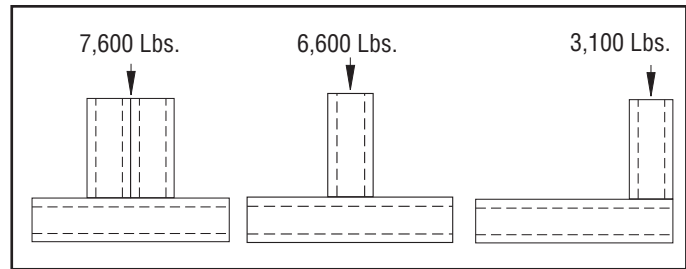
COLUMN LOADING – PS 150

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 4,640 | 13,840 | 12,570 | 10,840 | 9,190 |
| 36 | 3,970 | 11,050 | 9,190 | 7,030 | 5,370 |
| 48 | 3,180 | 8,420 | 6,390 | 4,620 | 3,630 |
| 60 | 2,550 | 6,250 | 4,620 | 3,450 | 2,780 |
| 72 | 2,120 | 4,790 | 3,630 | 2,780 | 2,260 |
| 84 | 1,810 | 3,890 | 3,010 | 2,330 | 1,910 |
| 96 | 1,580 | 3,290 | 2,580 | 2,020 | 1,650 |
| 108 | 1,400 | 2,860 | 2,260 | 1,770 | 1,440 |
| 120 | 1,270 | 2,530 | 2,020 | 1,580 | ** |
| 144 | 1,060 | 2,070 | 1,650 | ** | ** |
| 168 | 920 | 1,750 | 1,380 | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS150 – Crush Loads



Resistance to Slip – 1,500 lbs. per bolt when 1/2" PS NS channel nuts are used.
Pull Out Strength – 2,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 150 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 5,220 * | 0.01 | 5,220 * | 5,220 * | 5,220 * |
| 36 | 5,220 * | 0.04 | 5,220 * | 5,220 * | 5,220 * |
| 48 | 4,820 | 0.08 | 4,820 | 4,820 | 4,820 |
| 60 | 3,860 | 0.13 | 3,860 | 3,860 | 3,860 |
| 72 | 3,220 | 0.19 | 3,220 | 3,220 | 3,220 |
| 84 | 2,760 | 0.26 | 2,760 | 2,760 | 2,500 |
| 96 | 2,410 | 0.34 | 2,410 | 2,410 | 1,920 |
| 108 | 2,140 | 0.42 | 2,140 | 2,140 | 1,510 |
| 120 | 1,930 | 0.52 | 1,930 | 1,840 | 1,230 |
| 144 | 1,610 | 0.76 | 1,610 | 1,280 | 850 |
| 168 | 1,380 | 1.03 | 1,250 | 940 | 630 |
| 192 | 1,210 | 1.35 | 960 | 720 | 480 |
| 216 | 1,070 | 1.70 | 760 | 570 | 380 |
| 240 | 960 | 2.09 | 610 | 460 | 310 |

*Load limited by spot weld shear.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 150 2T3

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 8,580 | 31,810 | 30,880 | 29,520 | 28,100 |
| 36 | 8,350 | 29,700 | 28,100 | 26,000 | 24,070 |
| 48 | 8,080 | 27,390 | 25,330 | 22,910 | 20,940 |
| 60 | 7,720 | 25,170 | 22,910 | 20,510 | 17,170 |
| 72 | 7,270 | 23,190 | 20,940 | 17,170 | 12,700 |
| 84 | 6,780 | 21,510 | 18,740 | 13,430 | 9,330 |
| 96 | 6,130 | 20,110 | 15,630 | 10,290 | 7,150 |
| 108 | 5,450 | 17,750 | 12,700 | 8,130 | 5,650 |
| 120 | 4,800 | 15,260 | 10,290 | 6,590 | ** |
| 144 | 3,760 | 10,830 | 7,150 | ** | ** |
| 168 | 2,970 | 7,950 | 5,250 | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

For Pierced Channels, reduce beam load values as follows:

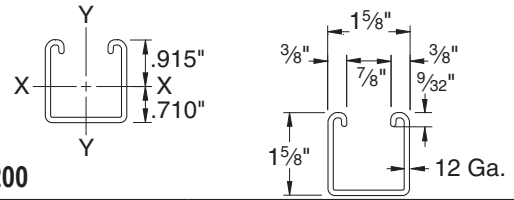
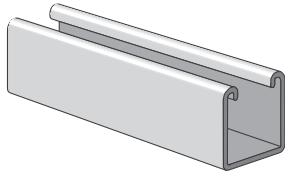
- PS-150 2T3-EH 15%

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



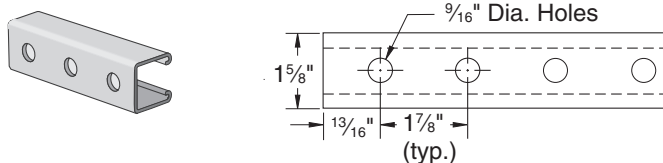
PS 200 – Steel Channel (1 5/8" x 1 5/8" x 12 ga.)



ELEMENTS OF SECTION – PS 200

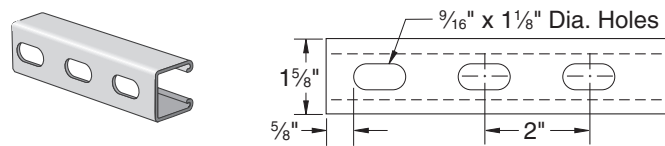
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 189 | 0.555 | 0.185 | 0.202 | 0.577 | 0.236 | 0.290 | 0.651 |

PS 200 H – Channel with Holes



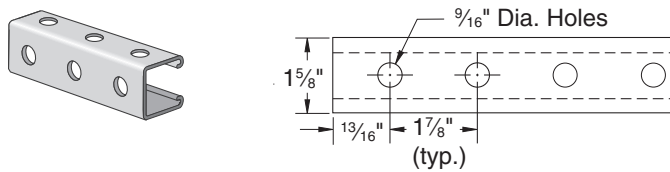
Weight: 186 lbs./100 ft.

PS 200 EH – Channel with Elongated Holes



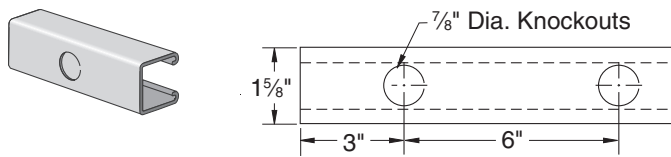
Weight: 185 lbs./100 ft.

PS 200 H3 – Channel with Holes



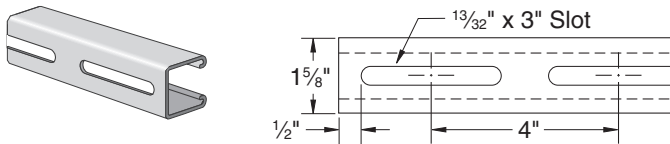
Weight: 175 lbs./100 ft.

PS 200 K06 – Channel with Knockouts



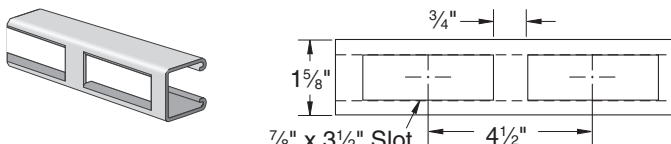
Weight: 189 lbs./100 ft.

PS 200 S – Channel with Slots



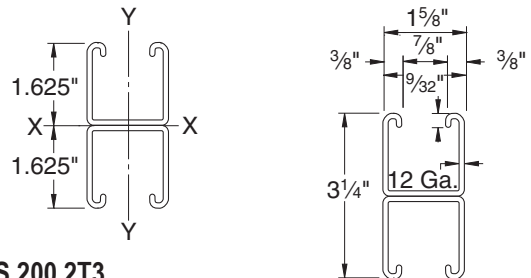
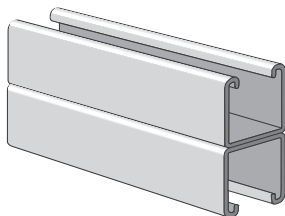
Weight: 185 lbs./100 ft.

PS 200 SB – Channel with Slotted Back



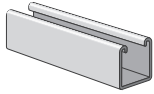
Weight: 173 lbs./100 ft.

PS 200 2T3 – Steel Channel (1 5/8" x 3 1/4" x 12 ga.)



ELEMENTS OF SECTION – PS 200 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 378 | 1.111 | 0.928 | 0.571 | 0.914 | 0.471 | 0.580 | 0.651 |



PS 200 & PS 200 2T3 – Load Data

BEAM LOADING – PS 200

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 1,690 | 0.06 | 1,690 | 1,690 | 1,690 |
| 36 | 1,130 | 0.13 | 1,130 | 1,130 | 900 |
| 48 | 850 | 0.22 | 850 | 760 | 500 |
| 60 | 680 | 0.35 | 650 | 480 | 320 |
| 72 | 560 | 0.50 | 450 | 340 | 220 |
| 84 | 480 | 0.68 | 330 | 250 | 160 |
| 96 | 420 | 0.89 | 250 | 190 | 130 |
| 108 | 380 | 1.14 | 200 | 150 | 100 |
| 120 | 340 | 1.40 | 160 | 120 | 80 |
| 144 | 280 | 2.00 | 110 | 80 | 60 |
| 168 | 240 | 2.72 | 80 | 60 | 40 |
| 192 | 210 | 3.55 | 60 | 50 | NR |
| 216 | 190 | 4.58 | 50 | 40 | NR |
| 240 | 170 | 5.62 | 40 | NR | NR |

* Bearing load may govern capacity.

NR - Not Recommended

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

PS-200-EH 15% PS-200-S 15%

PS-200-H 10% PS-200-K06 5%

PS-200-SB 30%

For Extruded Aluminum Channels, reduce beam load values 38%.

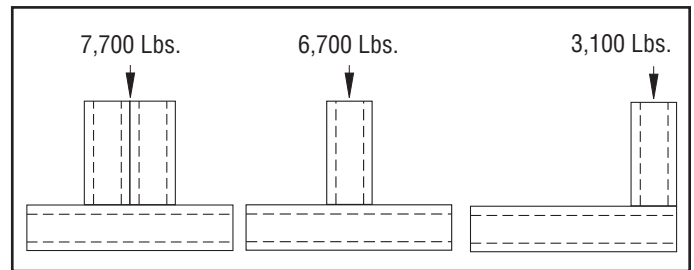
COLUMN LOADING – PS 200

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 3,550 | 10,740 | 9,890 | 8,770 | 7,740 |
| 36 | 3,190 | 8,910 | 7,740 | 6,390 | 5,310 |
| 48 | 2,770 | 7,260 | 6,010 | 4,690 | 3,800 |
| 60 | 2,380 | 5,910 | 4,690 | 3,630 | 2,960 |
| 72 | 2,080 | 4,840 | 3,800 | 2,960 | 2,400 |
| 84 | 1,860 | 4,040 | 3,200 | 2,480 | 1,980 |
| 96 | 1,670 | 3,480 | 2,750 | 2,110 | 1,660 |
| 108 | 1,510 | 3,050 | 2,400 | 1,810 | ** |
| 120 | 1,380 | 2,700 | 2,110 | ** | ** |
| 144 | 1,150 | 2,180 | 1,660 | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS200 – Crush Loads



Resistance to Slip – 1,500 lbs. per bolt when 1/2" PS NS channel nuts are used.
Pull Out Strength – 2,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 200 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 3,500 * | 0.02 | 3,500 * | 3,500 * | 3,500 * |
| 36 | 3,190 | 0.07 | 3,190 | 3,190 | 3,190 |
| 48 | 2,390 | 0.13 | 2,390 | 2,390 | 2,390 |
| 60 | 1,910 | 0.20 | 1,910 | 1,910 | 1,620 |
| 72 | 1,600 | 0.28 | 1,600 | 1,600 | 1,130 |
| 84 | 1,370 | 0.39 | 1,370 | 1,240 | 830 |
| 96 | 1,200 | 0.51 | 1,200 | 950 | 630 |
| 108 | 1,060 | 0.64 | 1,000 | 750 | 500 |
| 120 | 960 | 0.79 | 810 | 610 | 410 |
| 144 | 800 | 1.14 | 560 | 420 | 280 |
| 168 | 680 | 1.53 | 410 | 310 | 210 |
| 192 | 600 | 2.02 | 320 | 240 | 160 |
| 216 | 530 | 2.54 | 250 | 190 | 130 |
| 240 | 480 | 3.16 | 200 | 150 | 100 |

*Load limited by spot weld shear.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 200 2T3

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 6,430 | 24,280 | 23,610 | 22,700 | 21,820 |
| 36 | 6,290 | 22,810 | 21,820 | 20,650 | 19,670 |
| 48 | 6,160 | 21,410 | 20,300 | 18,670 | 16,160 |
| 60 | 6,000 | 20,210 | 18,670 | 15,520 | 12,390 |
| 72 | 5,620 | 18,970 | 16,160 | 12,390 | 8,950 |
| 84 | 5,170 | 16,950 | 13,630 | 9,470 | 6,580 |
| 96 | 4,690 | 14,890 | 11,190 | 7,250 | 5,040 |
| 108 | 4,170 | 12,850 | 8,950 | 5,730 | 3,980 |
| 120 | 3,690 | 10,900 | 7,250 | 4,640 | ** |
| 144 | 2,930 | 7,630 | 5,040 | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

For Pierced Channels, reduce beam load values as follows:

PS 200 2T3 EH 15%

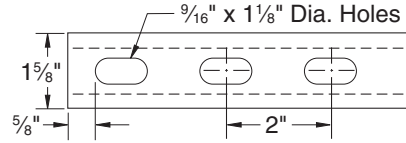
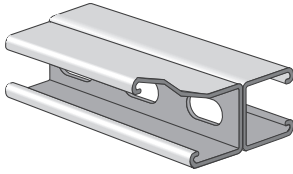
(See PS 200 2T3 EH on page 28.)

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish

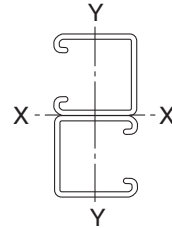
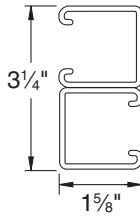
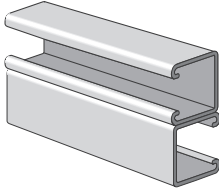


PS 200 2T3 EH – Channel with Elongated Holes



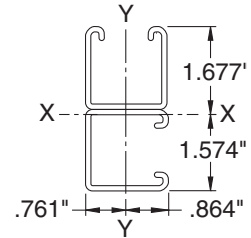
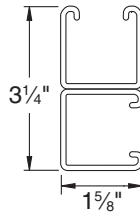
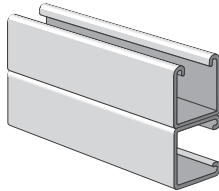
Weight: 370 lbs./100 ft.

PS 200 2T2 – Welded Steel Channel (1 5/8" x 3 1/4" x 12 ga.)



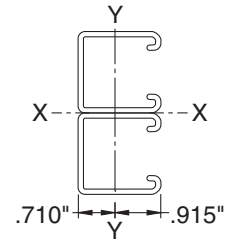
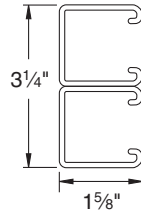
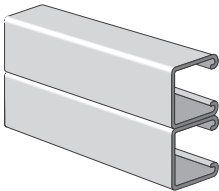
Weight: 378 lbs./100 ft.
Allowable Moment 18,640 In-Lbs

PS 200 2T4 – Welded Steel Channel (1 5/8" x 3 1/4" x 12 ga.)



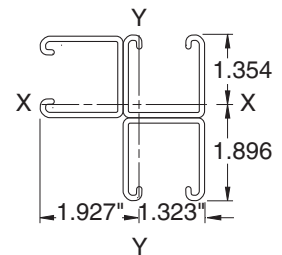
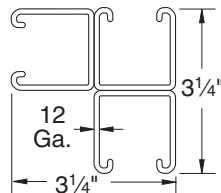
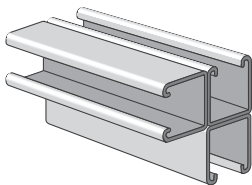
Weight: 378 lbs./100 ft.
Allowable Moment 15,950 In-Lbs

PS 200 2T5 – Welded Steel Channel (1 5/8" x 3 1/4" x 12 ga.)

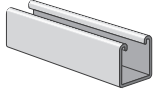


Weight: 378 lbs./100 ft.
Allowable Moment 18,640 In-Lbs

PS 200 3T6 – Welded Steel Channel (3 1/4" x 3 1/4" x 12 ga.)

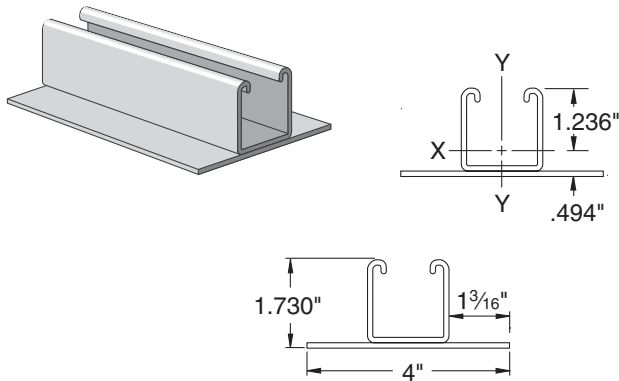


Weight: 566 lbs./100 ft.
Allowable Moment 18,680 In-Lbs

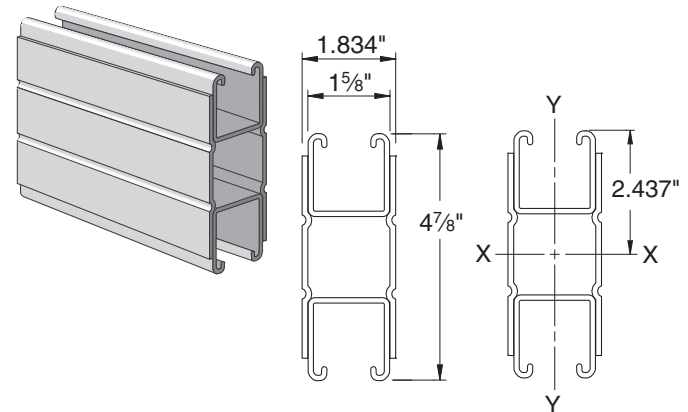


Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish

PS 200 PLA – Welded Steel Channel & Plate



PS 200 PLC – Welded Steel Channel & Plate



ELEMENTS OF SECTION

| Part No. | Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|------------|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| PS 200 PLA | 333 | 0.739 | 0.287 | 0.248 | 0.623 | 0.617 | 0.290 | 0.914 |
| PS 200 PLC | 668 | 1.965 | 4.068 | 1.669 | 1.439 | 1.092 | 1.190 | 0.745 |

PS 200 PLC – Load Data

BEAM LOADING – PS 200 PLC

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 9,100 * | 0.01 | 9,100 * | 9,100 * | 9,100 * |
| 36 | 9,100 * | 0.05 | 9,100 * | 9,100 * | 9,100 * |
| 48 | 7,000 | 0.08 | 7,000 | 7,000 | 7,000 |
| 60 | 5,600 | 0.13 | 5,600 | 5,600 | 5,600 |
| 72 | 4,660 | 0.19 | 4,660 | 4,660 | 4,660 |
| 84 | 4,000 | 0.26 | 4,000 | 4,000 | 3,630 |
| 96 | 3,500 | 0.34 | 3,500 | 3,500 | 2,780 |
| 108 | 3,110 | 0.43 | 3,110 | 3,110 | 2,200 |
| 120 | 2,800 | 0.52 | 2,800 | 2,670 | 1,780 |
| 144 | 2,330 | 0.75 | 2,330 | 1,850 | 1,230 |
| 168 | 2,000 | 1.03 | 1,810 | 1,360 | 910 |
| 192 | 1,750 | 1.34 | 1,390 | 1,040 | 690 |
| 216 | 1,550 | 1.69 | 1,100 | 820 | 550 |
| 240 | 1,400 | 2.10 | 890 | 670 | 440 |

COLUMN LOADING – PS 200 PLC

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 11,420 | 36,800 | 33,890 | 30,440 | 27,600 |
| 36 | 10,600 | 30,840 | 27,600 | 24,400 | 22,160 |
| 48 | 9,860 | 26,400 | 23,560 | 21,060 | 19,470 |
| 60 | 9,160 | 23,370 | 21,060 | 19,160 | 18,020 |
| 72 | 8,610 | 21,310 | 19,470 | 18,020 | 17,140 |
| 84 | 8,170 | 19,890 | 18,410 | 17,260 | 15,240 |
| 96 | 7,790 | 18,890 | 17,670 | 16,760 | 11,670 |
| 108 | 7,460 | 18,160 | 17,140 | 13,280 | 9,220 |
| 120 | 7,150 | 17,590 | 16,760 | 10,750 | 7,470 |
| 144 | 5,660 | 16,840 | 11,670 | 7,470 | ** |
| 168 | 4,520 | 12,990 | 8,570 | ** | ** |

** $KL/\lambda > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

*Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

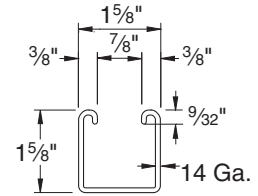
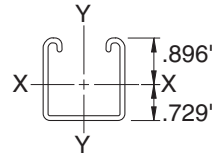
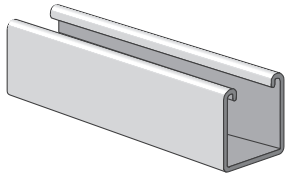
Loads must be multiplied by the applicable unbraced factor from page 42.

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



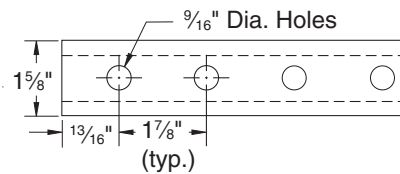
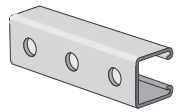
PS 210 – Steel Channel (1 5/8" x 1 5/8" x 14 ga.)



ELEMENTS OF SECTION – PS 210

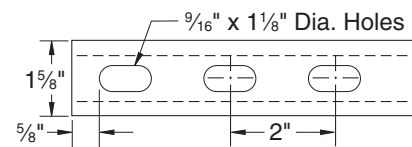
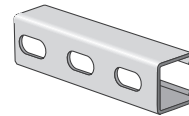
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 142 | 0.418 | 0.145 | 0.162 | 0.589 | 0.176 | 0.217 | 0.650 |

PS 210 H – Channel with Holes



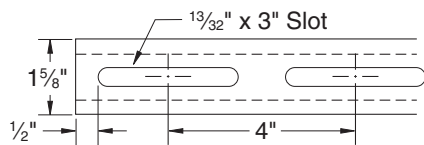
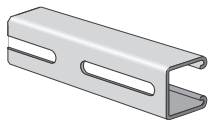
Weight: 137 lbs./100 ft.

PS 210 EH – Channel with Elongated Holes



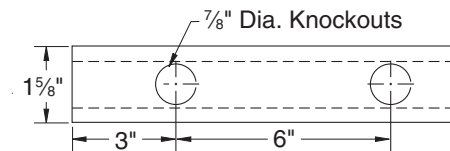
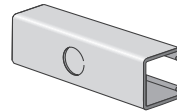
Weight: 137 lbs./100 ft.

PS 210 S – Channel with Slots



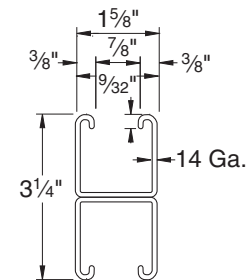
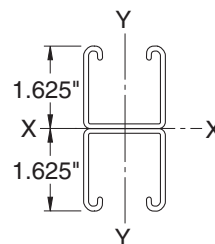
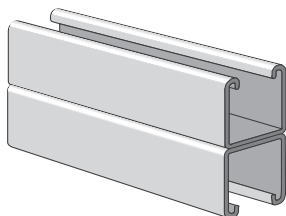
Weight: 137 lbs./100 ft.

PS 210 K06 – Channel with Knockouts



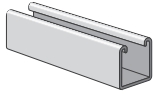
Weight: 141 lbs./100 ft.

PS 210 2T3 – Steel Channel (1 5/8" x 3 1/4" x 14 ga.)



ELEMENTS OF SECTION – PS 210 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 284 | 0.835 | 0.733 | 0.451 | 0.937 | 0.353 | 0.434 | 0.650 |



PS 210 & PS 210 2T3 – Load Data

BEAM LOADING – PS 210

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 1,350 | 0.06 | 1,350 | 1,350 | 1,350 |
| 36 | 900 | 0.13 | 900 | 900 | 700 |
| 48 | 680 | 0.23 | 680 | 590 | 400 |
| 60 | 540 | 0.36 | 510 | 380 | 250 |
| 72 | 450 | 0.51 | 350 | 260 | 180 |
| 84 | 390 | 0.70 | 260 | 190 | 130 |
| 96 | 340 | 0.92 | 200 | 150 | 100 |
| 108 | 300 | 1.15 | 160 | 120 | 80 |
| 120 | 270 | 1.42 | 130 | 90 | 60 |
| 144 | 230 | 2.09 | 90 | 70 | 40 |
| 168 | 190 | 2.75 | 60 | 50 | 30 |
| 192 | 170 | 3.67 | 50 | 40 | NR |
| 216 | 150 | 4.61 | 40 | 30 | NR |
| 240 | 140 | 5.90 | 30 | NR | NR |

* Bearing load may govern capacity.

NR - Not Recommended

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

- PS-210-EH 15%
- PS-210-S 15%
- PS-210-H 10%
- PS-210-K06 5%

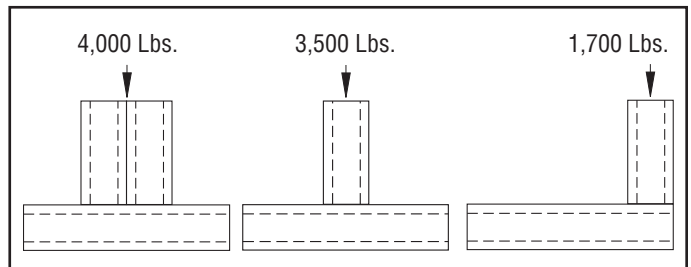
COLUMN LOADING – PS 210

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 2,800 | 8,040 | 7,330 | 6,360 | 5,430 |
| 36 | 2,410 | 6,480 | 5,430 | 4,190 | 3,210 |
| 48 | 1,940 | 4,990 | 3,830 | 2,760 | 2,160 |
| 60 | 1,550 | 3,740 | 2,760 | 2,050 | 1,640 |
| 72 | 1,290 | 2,860 | 2,160 | 1,640 | 1,320 |
| 84 | 1,100 | 2,310 | 1,780 | 1,370 | 1,110 |
| 96 | 950 | 1,950 | 1,520 | 1,180 | 950 |
| 108 | 840 | 1,690 | 1,320 | 1,030 | ** |
| 120 | 760 | 1,490 | 1,180 | ** | ** |
| 144 | 630 | 1,210 | 950 | ** | ** |

** KL/200

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS210 – Crush Loads



Resistance to Slip – 1,000 lbs. per bolt when 1/2" PS NS channel nuts are used.
Pull Out Strength – 1,400 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 210 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 2,180 * | 0.02 | 2,180 * | 2,180 * | 2,180 * |
| 36 | 2,180 * | 0.06 | 2,180 * | 2,180 * | 2,180 * |
| 48 | 1,890 | 0.13 | 1,890 | 1,890 | 1,890 |
| 60 | 1,510 | 0.20 | 1,510 | 1,510 | 1,280 |
| 72 | 1,260 | 0.28 | 1,260 | 1,260 | 890 |
| 84 | 1,080 | 0.39 | 1,080 | 980 | 650 |
| 96 | 950 | 0.51 | 950 | 750 | 500 |
| 108 | 840 | 0.64 | 790 | 590 | 400 |
| 120 | 760 | 0.79 | 640 | 480 | 320 |
| 144 | 630 | 1.13 | 440 | 330 | 220 |
| 168 | 540 | 1.54 | 330 | 250 | 160 |
| 192 | 470 | 2.00 | 250 | 190 | 130 |
| 216 | 420 | 2.55 | 200 | 150 | 100 |
| 240 | 380 | 3.16 | 160 | 120 | 80 |

*Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 210 2T3

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 5,010 | 18,250 | 17,700 | 16,880 | 16,030 |
| 36 | 4,860 | 16,990 | 16,030 | 14,770 | 13,620 |
| 48 | 4,700 | 15,610 | 14,380 | 12,930 | 11,750 |
| 60 | 4,480 | 14,280 | 12,930 | 11,490 | 9,290 |
| 72 | 4,210 | 13,100 | 11,750 | 9,290 | 6,700 |
| 84 | 3,880 | 12,090 | 10,220 | 7,090 | 4,930 |
| 96 | 3,480 | 11,170 | 8,390 | 5,430 | 3,770 |
| 108 | 3,060 | 9,640 | 6,700 | 4,290 | 2,980 |
| 120 | 2,680 | 8,170 | 5,430 | 3,480 | ** |
| 144 | 2,090 | 5,710 | 3,770 | ** | ** |

** KL/200

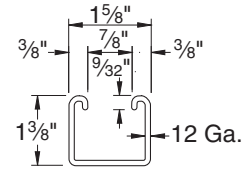
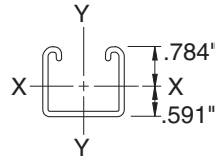
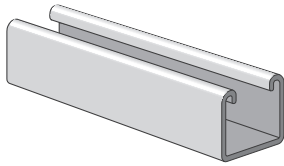
Column loads are for allowable axial loads and must be reduced for eccentric loading.

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



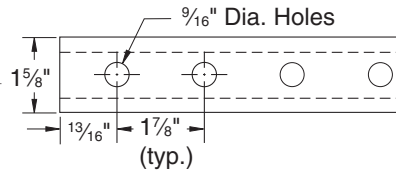
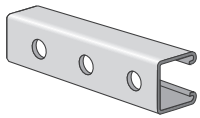
PS 300 – Steel Channel (1 5/8" x 1 3/8" x 12 ga.)



ELEMENTS OF SECTION – PS 300

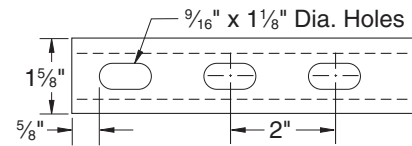
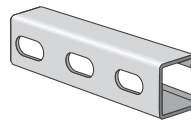
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 170 | 0.500 | 0.120 | 0.153 | 0.489 | 0.203 | 0.250 | 0.638 |

PS 300 H – Channel with Holes



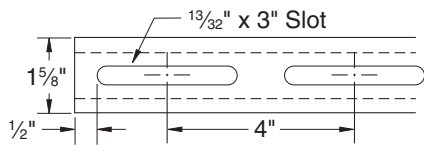
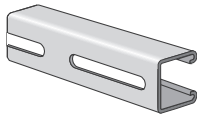
Weight: 165 lbs./100 ft.

PS 300 EH – Channel with Elongated Holes



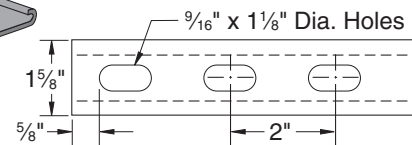
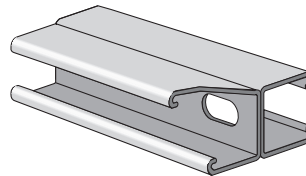
Weight: 165 lbs./100 ft.

PS 300 S – Channel with Slots



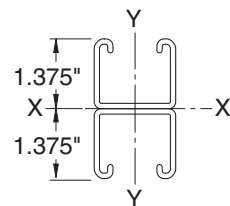
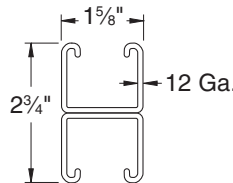
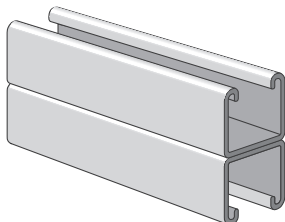
Weight: 165 lbs./100 ft.

PS 300 2T3 EH – Channel with Elongated Holes



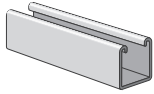
Weight: 340 lbs./100 ft.

PS 300 2T3 – Steel Channel (1 5/8" x 2 3/4" x 12 ga.)



ELEMENTS OF SECTION – PS 300 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 340 | 1.000 | 0.591 | 0.430 | 0.769 | 0.407 | 0.501 | 0.638 |



PS 300 & PS 300 2T3 – Load Data

BEAM LOADING – PS 300

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 1,280 | 0.07 | 1,280 | 1,280 | 1,280 |
| 36 | 850 | 0.15 | 850 | 850 | 580 |
| 48 | 640 | 0.26 | 640 | 490 | 330 |
| 60 | 510 | 0.41 | 420 | 310 | 210 |
| 72 | 430 | 0.59 | 290 | 220 | 150 |
| 84 | 370 | 0.81 | 210 | 160 | 110 |
| 96 | 320 | 1.05 | 160 | 120 | 80 |
| 108 | 280 | 1.30 | 130 | 100 | 60 |
| 120 | 260 | 1.66 | 100 | 80 | 50 |
| 144 | 210 | 2.32 | 70 | 50 | 40 |
| 168 | 180 | 3.15 | 50 | 40 | 30 |
| 192 | 160 | 4.18 | 40 | 30 | NR |
| 216 | 140 | 5.21 | NR | NR | NR |
| 240 | 130 | 6.64 | NR | NR | NR |

* Bearing load may govern capacity.

NR - Not Recommended

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

- PS-300-EH 15%
- PS-300-S 15%
- PS-300-H 10%

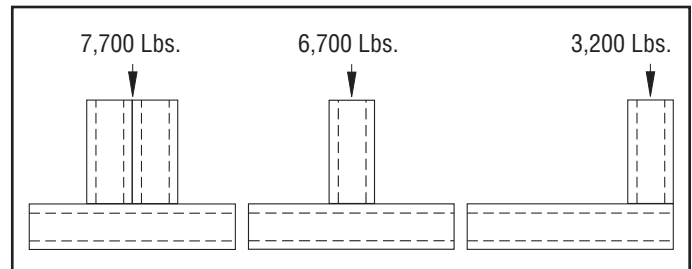
COLUMN LOADING – PS 300

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 3,180 | 9,690 | 8,980 | 8,050 | 7,210 |
| 36 | 2,920 | 8,160 | 7,210 | 6,130 | 5,240 |
| 48 | 2,590 | 6,820 | 5,810 | 4,730 | 3,860 |
| 60 | 2,300 | 5,740 | 4,730 | 3,690 | 2,990 |
| 72 | 2,040 | 4,850 | 3,860 | 2,990 | 2,270 |
| 84 | 1,830 | 4,100 | 3,240 | 2,400 | ** |
| 96 | 1,650 | 3,530 | 2,770 | 1,840 | ** |
| 108 | 1,450 | 3,080 | 2,270 | ** | ** |
| 120 | 1,250 | 2,710 | 1,840 | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS300 – Crush Loads



Resistance to Slip – 1,500 lbs. per bolt when 1/2" PS NS channel nuts are used.
Pull Out Strength – 2,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 300 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 2,960 * | 0.03 | 2,960 * | 2,960 * | 2,960 * |
| 36 | 2,400 | 0.08 | 2,400 | 2,400 | 2,400 |
| 48 | 1,800 | 0.15 | 1,800 | 1,800 | 1,610 |
| 60 | 1,440 | 0.23 | 1,440 | 1,440 | 1,030 |
| 72 | 1,200 | 0.33 | 1,200 | 1,080 | 720 |
| 84 | 1,030 | 0.46 | 1,030 | 790 | 530 |
| 96 | 900 | 0.59 | 810 | 610 | 400 |
| 108 | 800 | 0.75 | 640 | 480 | 320 |
| 120 | 720 | 0.93 | 520 | 390 | 260 |
| 144 | 600 | 1.34 | 360 | 270 | 180 |
| 168 | 510 | 1.81 | 260 | 200 | 130 |
| 192 | 450 | 2.38 | 200 | 150 | 100 |
| 216 | 400 | 3.01 | 160 | 120 | 80 |
| 240 | 360 | 3.72 | 130 | 100 | NR |

* Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 300 2T3

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 5,740 | 21,780 | 21,200 | 20,430 | 19,720 |
| 36 | 5,620 | 20,520 | 19,720 | 18,830 | 17,680 |
| 48 | 5,520 | 19,400 | 18,570 | 16,570 | 14,260 |
| 60 | 5,330 | 18,510 | 16,570 | 13,670 | 10,810 |
| 72 | 5,030 | 16,850 | 14,260 | 10,810 | 7,730 |
| 84 | 4,630 | 14,990 | 11,930 | 8,180 | 5,680 |
| 96 | 4,190 | 13,090 | 9,720 | 6,260 | 4,350 |
| 108 | 3,720 | 11,230 | 7,730 | 4,950 | ** |
| 120 | 3,300 | 9,460 | 6,260 | 4,010 | ** |
| 144 | 2,620 | 6,590 | 4,350 | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

For Pierced Channels, reduce beam load values as follows:

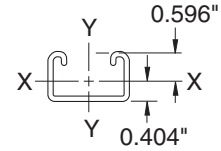
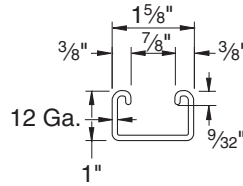
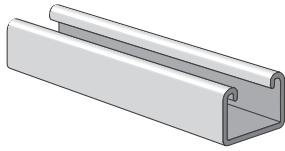
- PS-300 2T3 EH 15%

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



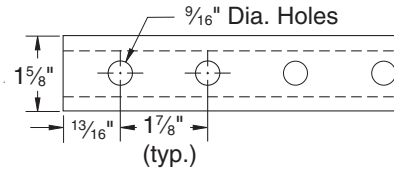
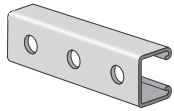
PS 400 – Steel Channel (1 5/8" x 1" x 12 ga.)



ELEMENTS OF SECTION – PS 400

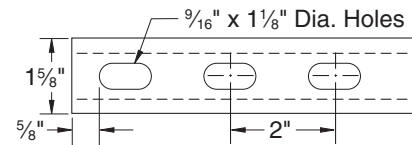
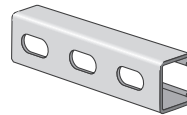
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 144 | 0.424 | 0.053 | 0.092 | 0.354 | 0.161 | 0.198 | 0.616 |

PS 400 H – Channel with Holes



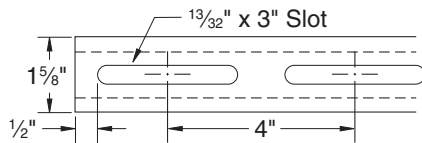
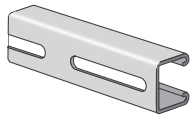
Weight: 136 lbs./100 ft.

PS 400 EH – Channel with Elongated Holes



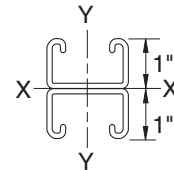
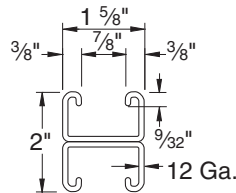
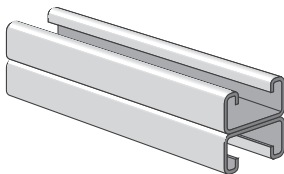
Weight: 136 lbs./100 ft.

PS 400 S – Channel with Slots



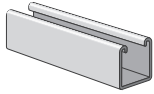
Weight: 136 lbs./100 ft.

PS 400 2T3 – Steel Channel (1 5/8" x 2" x 12 ga.)



ELEMENTS OF SECTION – PS 400 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 288 | 0.849 | 0.255 | 0.255 | 0.548 | 0.322 | 0.396 | 0.616 |



PS 400 & PS 400 2T3 – Load Data

BEAM LOADING – PS 400

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 770 | 0.09 | 770 | 770 | 580 |
| 36 | 510 | 0.20 | 510 | 390 | 260 |
| 48 | 380 | 0.35 | 290 | 220 | 150 |
| 60 | 310 | 0.56 | 190 | 140 | 90 |
| 72 | 260 | 0.80 | 130 | 100 | 60 |
| 84 | 220 | 1.08 | 90 | 70 | 50 |
| 96 | 190 | 1.39 | 70 | 50 | 40 |
| 108 | 170 | 1.78 | 60 | 40 | 30 |
| 120 | 150 | 2.15 | 50 | 30 | 20 |
| 144 | 130 | 3.22 | 30 | 20 | 20 |
| 168 | 110 | 4.32 | NR | NR | NR |
| 192 | 100 | 5.87 | NR | NR | NR |
| 216 | 90 | 7.52 | NR | NR | NR |

* Bearing load may govern capacity.
NR - Not Recommended

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

- PS-400-EH 15%
- PS-400-S 15%
- PS-400-H 10%

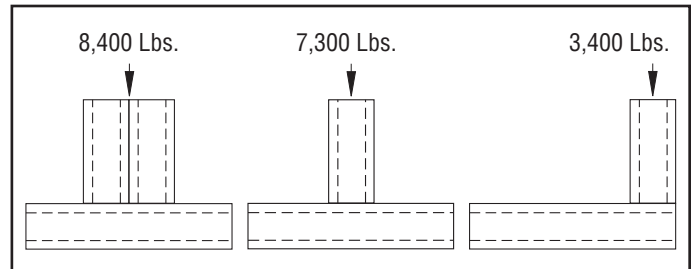
COLUMN LOADING – PS 400

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 2,620 | 8,280 | 7,760 | 7,140 | 6,580 |
| 36 | 2,470 | 7,210 | 6,580 | 5,310 | 4,030 |
| 48 | 2,180 | 6,200 | 4,870 | 3,280 | 2,280 |
| 60 | 1,770 | 4,760 | 3,280 | 2,100 | ** |
| 72 | 1,420 | 3,450 | 2,280 | ** | ** |
| 84 | 1,150 | 2,530 | 1,670 | ** | ** |
| 96 | ** | 1,940 | ** | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS400 – Crush Loads



Resistance to Slip – 1,500 lbs. per bolt when 1/2" PS NS channel nuts are used.
Pull Out Strength – 2,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 400 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 2,140 * | 0.05 | 2,140 * | 2,140 * | 2,140 * |
| 36 | 1,420 | 0.11 | 1,420 | 1,420 | 1,240 |
| 48 | 1,070 | 0.20 | 1,070 | 1,040 | 700 |
| 60 | 850 | 0.32 | 850 | 670 | 450 |
| 72 | 710 | 0.46 | 620 | 460 | 310 |
| 84 | 610 | 0.63 | 450 | 340 | 230 |
| 96 | 530 | 0.81 | 350 | 260 | 170 |
| 108 | 470 | 1.03 | 280 | 210 | 140 |
| 120 | 430 | 1.29 | 220 | 170 | 110 |
| 144 | 360 | 1.86 | 150 | 120 | 80 |
| 168 | 310 | 2.54 | 110 | 90 | 60 |
| 192 | 270 | 3.31 | 90 | 70 | NR |
| 216 | 240 | 4.19 | 70 | NR | NR |
| 240 | 210 | 5.03 | 60 | NR | NR |

*Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 400 2T3

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 4,720 | 18,310 | 17,840 | 17,300 | 16,760 |
| 36 | 4,640 | 17,360 | 16,760 | 15,260 | 13,610 |
| 48 | 4,470 | 16,280 | 14,720 | 12,460 | 10,170 |
| 60 | 4,230 | 14,590 | 12,460 | 9,610 | 6,980 |
| 72 | 3,930 | 12,750 | 10,170 | 6,980 | 4,840 |
| 84 | 3,520 | 10,880 | 7,990 | 5,130 | 3,560 |
| 96 | 3,070 | 9,050 | 6,130 | 3,920 | ** |
| 108 | 2,690 | 7,340 | 4,840 | 3,100 | ** |
| 120 | 2,360 | 5,940 | 3,920 | ** | ** |

** $K_L > 200$

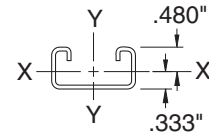
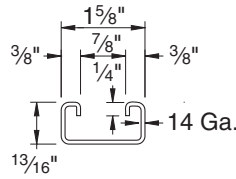
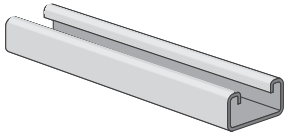
Column loads are for allowable axial loads and must be reduced for eccentric loading.

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



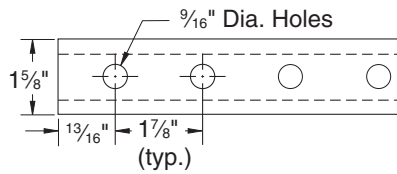
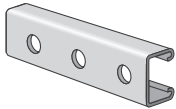
PS 500 – Steel Channel (1 5/8" x 1 3/16" x 14 ga.)



ELEMENTS OF SECTION – PS 500

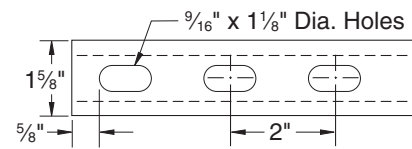
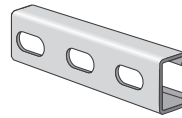
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 98 | 0.290 | 0.026 | 0.054 | 0.298 | 0.107 | 0.132 | 0.609 |

PS 500 H – Channel with Holes



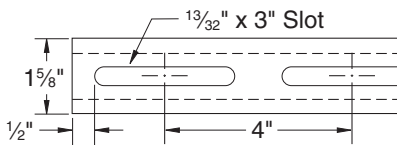
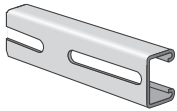
Weight: 87 lbs./100 ft.

PS 500 EH – Channel with Elongated Holes



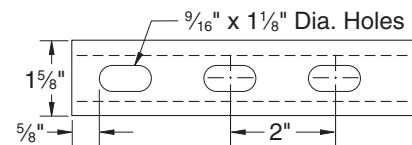
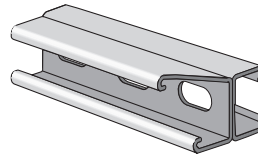
Weight: 87 lbs./100 ft.

PS 500 S – Channel with Slots



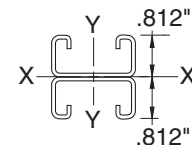
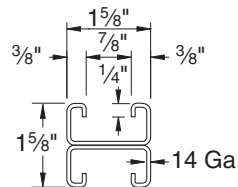
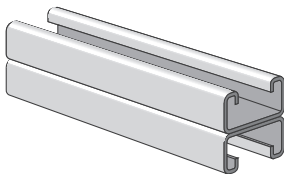
Weight: 87 lbs./100 ft.

PS 500 2T3 EH – Channel with Elongated Holes



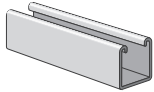
Weight: 174 lbs./100 ft.

PS 500 2T3 – Steel Channel (1 5/8" x 1 5/8" x 14 ga.)



ELEMENTS OF SECTION – PS 500 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 197 | 0.579 | 0.117 | 0.143 | 0.449 | 0.214 | 0.264 | 0.608 |



PS 500 & PS 500 2T3 – Load Data

BEAM LOADING – PS 500

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 450 | 0.11 | 450 | 420 | 280 |
| 36 | 300 | 0.24 | 250 | 190 | 130 |
| 48 | 230 | 0.44 | 140 | 110 | 70 |
| 60 | 180 | 0.67 | 90 | 70 | 50 |
| 72 | 150 | 0.96 | 60 | 50 | 30 |
| 84 | 130 | 1.32 | 50 | 30 | 20 |
| 96 | 110 | 1.67 | 40 | 30 | 20 |
| 108 | 100 | 2.16 | 30 | 20 | 10 |
| 120 | 90 | 2.67 | 20 | 20 | 10 |

* Bearing load may govern capacity.

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

- PS-500-EH 15%
- PS-500-S 15%
- PS-500-H 10%

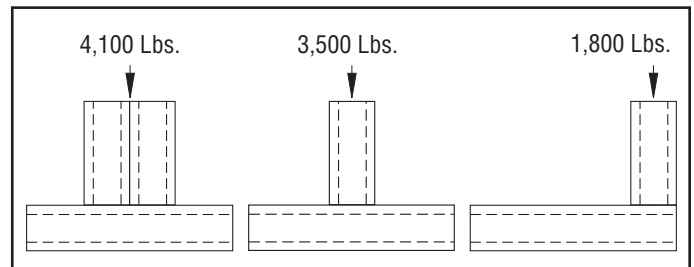
COLUMN LOADING – PS 500

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 1,840 | 5,610 | 5,210 | 4,570 | 3,850 |
| 36 | 1,640 | 4,660 | 3,850 | 2,800 | 1,960 |
| 48 | 1,310 | 3,490 | 2,480 | 1,590 | 1,100 |
| 60 | 1,000 | 2,400 | 1,590 | ** | ** |
| 72 | 770 | 1,670 | 1,100 | ** | ** |

** $K L / r > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS500 – Crush Loads



Resistance to Slip – 1,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

Pull Out Strength – 1,400 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 500 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 1,090 * | 0.06 | 1,090 * | 1,090 * | 1,090 * |
| 36 | 800 | 0.14 | 800 | 800 | 570 |
| 48 | 600 | 0.25 | 600 | 480 | 320 |
| 60 | 480 | 0.39 | 410 | 310 | 200 |
| 72 | 400 | 0.57 | 280 | 210 | 140 |
| 84 | 340 | 0.76 | 210 | 160 | 100 |
| 96 | 300 | 1.00 | 160 | 120 | 80 |
| 108 | 270 | 1.29 | 130 | 90 | 60 |
| 120 | 240 | 1.57 | 100 | 80 | 50 |

*Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 500 2T3

| Unbraced Height | Max Allowable Load at Slot Face | Max. Column Load Applied at C.G. | | | |
|-----------------|---------------------------------|----------------------------------|----------|---------|---------|
| | | K = 0.65 | K = 0.80 | K = 1.0 | K = 1.2 |
| 24 | 3,240 | 12,370 | 11,950 | 11,370 | 10,540 |
| 36 | 3,120 | 11,470 | 10,540 | 9,160 | 7,720 |
| 48 | 2,940 | 10,090 | 8,680 | 6,770 | 4,980 |
| 60 | 2,680 | 8,560 | 6,770 | 4,590 | 3,190 |
| 72 | 2,310 | 7,010 | 4,980 | 3,190 | 2,220 |
| 84 | 1,950 | 5,530 | 3,660 | 2,340 | ** |
| 96 | 1,650 | 4,250 | 2,800 | ** | ** |
| 108 | 1,410 | 3,360 | 2,220 | ** | ** |

** $K L / r > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

For Pierced Channels, reduce beam load values as follows:

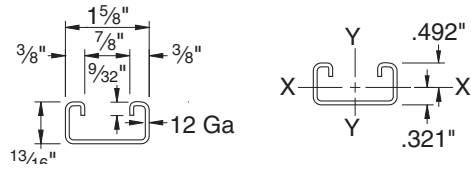
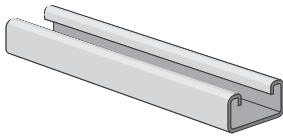
- PS-500 2T3 EH 15%

CHANNEL



Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish

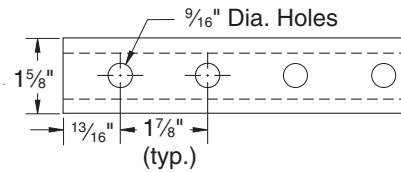
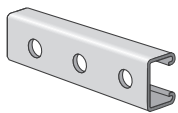
PS 520 – Steel Channel (1⁵/₈" x 1³/₁₆" x 12 ga.)



ELEMENTS OF SECTION – PS 520

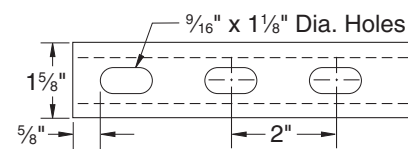
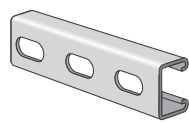
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 131 | 0.384 | 0.031 | 0.064 | 0.283 | 0.138 | 0.170 | 0.599 |

PS 520 H – Channel with Holes



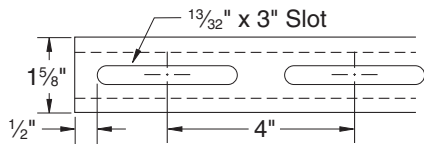
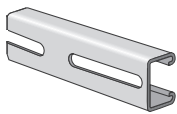
Weight: 120 lbs./100 ft.

PS 520 EH – Channel with Elongated Holes



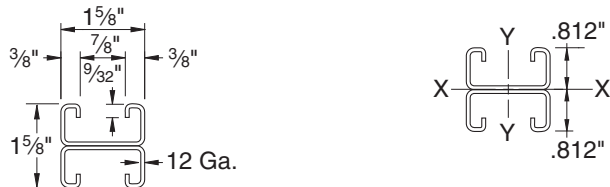
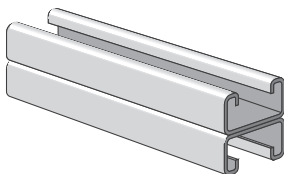
Weight: 120 lbs./100 ft.

PS 520 S – Channel with Slots



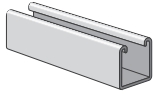
Weight: 118 lbs./100 ft.

PS 520 2T3 – Steel Channel (1⁵/₈" x 1⁵/₈" x 12 ga.)



ELEMENTS OF SECTION – PS 520 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 262 | 0.770 | 0.146 | 0.180 | 0.436 | 0.277 | 0.340 | 0.599 |



PS 520 – Steel Channel (1⁵/₈" x 1³/₁₆" x 12 ga.) - Load Data

BEAM LOADING – PS 520

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 540 | 0.11 | 540 | 510 | 340 |
| 36 | 360 | 0.24 | 300 | 220 | 150 |
| 48 | 270 | 0.43 | 170 | 130 | 80 |
| 60 | 220 | 0.68 | 110 | 80 | 50 |
| 72 | 180 | 0.96 | 70 | 60 | 40 |
| 84 | 150 | 1.27 | 60 | 40 | 30 |
| 96 | 130 | 1.65 | 40 | 30 | 20 |
| 108 | 120 | 2.16 | 30 | 20 | 20 |
| 120 | 110 | 2.72 | 30 | 20 | NR |
| 144 | 90 | 3.84 | 20 | NR | NR |
| 168 | 80 | 5.43 | NR | NR | NR |
| 192 | 70 | 7.09 | NR | NR | NR |

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

- PS-520-EH 15%
- PS-520-H 10%
- PS-520-S 15%

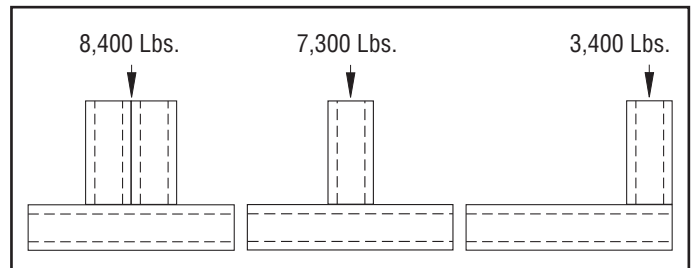
COLUMN LOADING – PS 520

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 2,250 | 7,480 | 6,800 | 5,820 | 4,810 |
| 36 | 1,980 | 5,950 | 4,810 | 3,380 | 2,350 |
| 48 | 1,580 | 4,310 | 2,970 | 1,900 | ** |
| 60 | 1,210 | 2,880 | 1,900 | ** | ** |
| 72 | ** | 2,000 | ** | ** | ** |

** KL/L > 200

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS520 – Crush Loads



Resistance to Slip – 1,500 lbs. per bolt when 1/2" PS NS channel nuts are used.

Pull Out Strength – 1,500 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 520 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 1,510 | 0.06 | 1,510 | 1,510 | 1,510 |
| 36 | 1,010 | 0.14 | 1,010 | 1,010 | 710 |
| 48 | 760 | 0.25 | 760 | 600 | 400 |
| 60 | 610 | 0.40 | 510 | 380 | 260 |
| 72 | 500 | 0.56 | 360 | 270 | 180 |
| 84 | 430 | 0.77 | 260 | 200 | 130 |
| 96 | 380 | 1.01 | 200 | 150 | 100 |
| 108 | 340 | 1.29 | 160 | 120 | 80 |
| 120 | 300 | 1.56 | 130 | 100 | 60 |
| 144 | 250 | 2.25 | 90 | 70 | 40 |
| 168 | 220 | 3.14 | 70 | 50 | NR |
| 192 | 190 | 4.05 | 50 | NR | NR |
| 216 | 170 | 5.16 | NR | NR | NR |
| 240 | 150 | 6.24 | NR | NR | NR |

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

COLUMN LOADING – PS 520 2T3

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 4,140 | 16,490 | 15,980 | 14,970 | 13,810 |
| 36 | 3,980 | 15,100 | 13,810 | 11,910 | 9,940 |
| 48 | 3,730 | 13,190 | 11,260 | 8,650 | 6,270 |
| 60 | 3,390 | 11,090 | 8,650 | 5,780 | 4,010 |
| 72 | 2,950 | 8,970 | 6,270 | 4,010 | 2,790 |
| 84 | 2,510 | 6,980 | 4,610 | 2,950 | ** |
| 96 | 2,130 | 5,340 | 3,530 | ** | ** |
| 108 | 1,820 | 4,220 | 2,790 | ** | ** |
| 120 | ** | 3,420 | ** | ** | ** |

** KL/L > 200

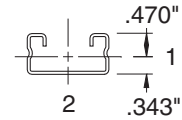
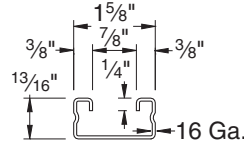
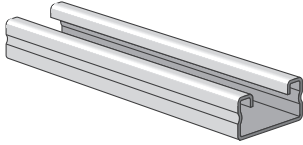
Column loads are for allowable axial loads and must be reduced for eccentric loading.

CHANNEL

Finish: Plain, Painted Green, or Pregalvanized Order By: No., Length and Finish



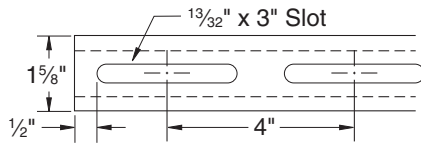
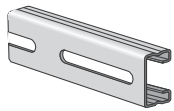
PS 560 – Steel Channel (1⁵/₈" x 1³/₁₆" x 16 ga.)



ELEMENTS OF SECTION – PS 560

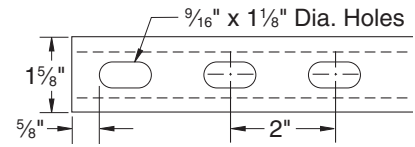
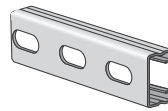
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 83 | 0.244 | 0.023 | 0.049 | 0.306 | 0.092 | 0.113 | 0.613 |

PS 560 S – Channel with Slots



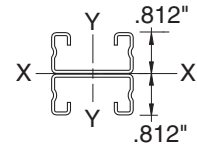
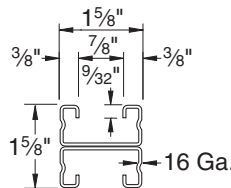
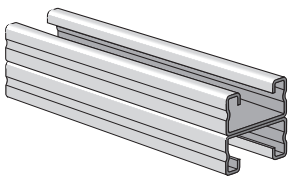
Weight: 79 lbs./100 ft.

PS 560 EH – Channel with Elongated Holes



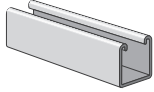
Weight: 79 lbs./100 ft.

PS 560 2T3 – Steel Channel (1⁵/₈" x 1⁵/₈" x 16 ga.)



ELEMENTS OF SECTION – PS 560 2T3

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|--------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 166 | 0.478 | 0.104 | 0.128 | 0.462 | 0.183 | 0.225 | 0.613 |



PS 560 – Steel Channel (1⁵/₈" x 1³/₁₆" x 16 ga.) - Load Data

BEAM LOADING – PS 560

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 410 | 0.11 | 410 | 370 | 250 |
| 36 | 270 | 0.24 | 220 | 170 | 110 |
| 48 | 200 | 0.43 | 120 | 90 | 60 |
| 60 | 160 | 0.67 | 80 | 60 | 40 |
| 72 | 140 | 1.01 | 60 | 40 | 30 |
| 84 | 120 | 1.38 | 40 | 30 | 20 |
| 96 | 100 | 1.72 | 30 | 20 | 20 |
| 108 | 90 | 2.20 | 20 | 20 | 10 |
| 120 | 80 | 2.68 | 20 | 10 | 10 |

* Bearing load may govern capacity.

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

- PS-520-EH 15%
- PS-520-S 15%

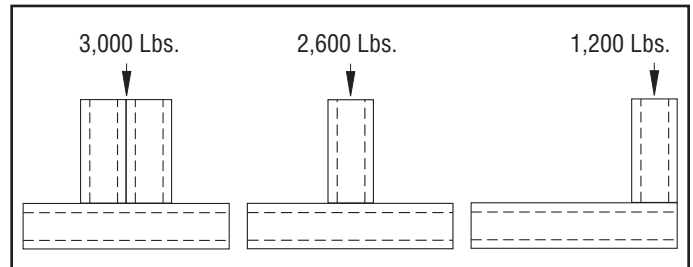
COLUMN LOADING – PS 560

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 1,630 | 4,670 | 4,290 | 3,780 | 3,310 |
| 36 | 1,450 | 3,840 | 3,310 | 2,460 | 1,730 |
| 48 | 1,160 | 3,030 | 2,190 | 1,400 | 970 |
| 60 | 870 | 2,120 | 1,400 | 900 | ** |
| 72 | 670 | 1,470 | 970 | ** | ** |

** $KL/r > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS560 – Crush Loads



Resistance to Slip – 1,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

Pull Out Strength – 1,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

BEAM LOADING – PS 560 2T3

| Span (in) | Max Allowable Uniform Load (lb) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|---------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 24 | 810 * | 0.05 | 810 * | 810 * | 810 * |
| 36 | 710 | 0.14 | 710 | 710 | 500 |
| 48 | 540 | 0.25 | 540 | 430 | 280 |
| 60 | 430 | 0.40 | 360 | 270 | 180 |
| 72 | 360 | 0.57 | 250 | 190 | 130 |
| 84 | 310 | 0.78 | 190 | 140 | 90 |
| 96 | 270 | 1.02 | 140 | 110 | 70 |
| 108 | 240 | 1.29 | 110 | 80 | 60 |
| 120 | 210 | 1.54 | 90 | 70 | 50 |
| 144 | 180 | 2.29 | 60 | 50 | 30 |

*Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 560 2T3

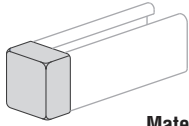
| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 24 | 2,830 | 10,390 | 10,000 | 9,470 | 8,960 |
| 36 | 2,740 | 9,530 | 8,960 | 7,870 | 6,700 |
| 48 | 2,590 | 8,620 | 7,480 | 5,910 | 4,440 |
| 60 | 2,340 | 7,380 | 5,910 | 4,090 | 2,840 |
| 72 | 2,020 | 6,110 | 4,440 | 2,840 | 1,970 |
| 84 | 1,700 | 4,880 | 3,260 | 2,090 | ** |
| 96 | 1,440 | 3,780 | 2,500 | ** | ** |
| 108 | 1,230 | 2,990 | 1,970 | ** | ** |

** $KL/r > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS 6153 - Strut Safety End Cap

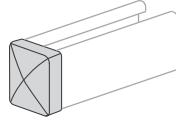
(For OSHA Req'd End of Hand Rail)



Material: Red Colored PVC

| Part No. | Use With | Wt./100 pcs. |
|-----------|-----------------------|--------------|
| PS-6153-1 | PS-100, PS200 2T3 | 5.0 |
| PS-6153-2 | PS-200,PS-210 | 2.8 |
| PS-6153-3 | PS-300 | 2.5 |
| PS-6153-5 | PS-500, PS-520, PS560 | 2.0 |

PS 6152 - Decorative End Cap



Finish: Electro-galvanized
Use With: PS-200, PS-210

Weight: 10 lbs./100 pcs.

PS 9050 - Green Touch-up Spray Paint



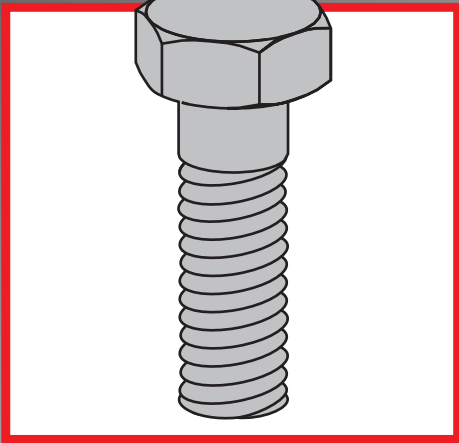
Aerosol can may be subject to shipping restrictions

Weight: 253 lbs./100

Lateral Bracing Load Reduction Charts

| Lateral Bracing Factors | | | | | | | | | | |
|-------------------------|-----|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Span | | Single Channel | | | | | | | | |
| Ft. | In | PS 100 | PS 150 | PS 200 | PS 210 | PS 300 | PS 400 | PS 500 | PS 520 | PS 560 |
| 2 | 24 | 0.98 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 36 | 0.85 | 0.89 | 0.94 | 0.89 | 0.96 | 1.00 | 0.98 | 1.00 | 0.94 |
| 4 | 48 | 0.70 | 0.77 | 0.88 | 0.78 | 0.91 | 0.98 | 0.94 | 1.00 | 0.88 |
| 5 | 60 | 0.55 | 0.67 | 0.82 | 0.68 | 0.88 | 0.96 | 0.91 | 1.00 | 0.83 |
| 6 | 72 | 0.44 | 0.58 | 0.78 | 0.59 | 0.84 | 0.94 | 0.89 | 0.98 | 0.79 |
| 7 | 84 | 0.38 | 0.51 | 0.75 | 0.52 | 0.82 | 0.92 | 0.86 | 0.97 | 0.75 |
| 8 | 96 | 0.33 | 0.46 | 0.71 | 0.47 | 0.79 | 0.91 | 0.84 | 0.96 | 0.72 |
| 9 | 108 | 0.30 | 0.42 | 0.69 | 0.43 | 0.77 | 0.89 | 0.82 | 0.95 | 0.69 |
| 10 | 120 | 0.28 | 0.40 | 0.66 | 0.40 | 0.75 | 0.87 | 0.80 | 0.93 | 0.66 |
| 12 | 144 | 0.24 | 0.36 | 0.61 | 0.36 | 0.70 | 0.84 | 0.76 | 0.91 | 0.60 |
| 14 | 168 | 0.22 | 0.32 | 0.55 | 0.32 | 0.66 | 0.81 | 0.73 | 0.89 | 0.55 |
| 16 | 192 | 0.21 | 0.30 | 0.51 | 0.30 | 0.62 | 0.78 | 0.69 | 0.86 | 0.50 |
| 18 | 216 | 0.19 | 0.28 | 0.47 | 0.28 | 0.58 | 0.75 | 0.65 | 0.84 | 0.47 |
| 20 | 240 | 0.18 | 0.26 | 0.44 | 0.26 | 0.54 | 0.72 | 0.61 | 0.81 | 0.43 |

| Lateral Bracing Factors | | | | | | | | | | |
|-------------------------|-----|----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Span | | Double Channel | | | | | | | | |
| Ft. | In | PS 100 2T3 | PS 150 2T3 | PS 200 2T3 | PS 210 2T3 | PS 300 2T3 | PS 400 2T3 | PS 500 2T3 | PS 520 2T3 | PS 560 2T3 |
| 2 | 24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 36 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 48 | 0.97 | 0.98 | 1.00 | 0.98 | 1.00 | 1.00 | 1.00 | 1.00 | 0.98 |
| 5 | 60 | 0.90 | 0.93 | 0.97 | 0.93 | 0.98 | 1.00 | 0.96 | 1.00 | 0.93 |
| 6 | 72 | 0.83 | 0.87 | 0.93 | 0.87 | 0.95 | 0.97 | 0.92 | 0.97 | 0.88 |
| 7 | 84 | 0.76 | 0.81 | 0.89 | 0.82 | 0.92 | 0.95 | 0.89 | 0.95 | 0.83 |
| 8 | 96 | 0.68 | 0.76 | 0.85 | 0.76 | 0.88 | 0.92 | 0.85 | 0.92 | 0.79 |
| 9 | 108 | 0.61 | 0.70 | 0.81 | 0.70 | 0.85 | 0.90 | 0.81 | 0.90 | 0.74 |
| 10 | 120 | 0.54 | 0.64 | 0.78 | 0.65 | 0.82 | 0.87 | 0.78 | 0.87 | 0.69 |
| 12 | 144 | 0.43 | 0.53 | 0.70 | 0.54 | 0.76 | 0.82 | 0.71 | 0.83 | 0.60 |
| 14 | 168 | 0.35 | 0.45 | 0.63 | 0.45 | 0.70 | 0.77 | 0.64 | 0.78 | 0.51 |
| 16 | 192 | 0.30 | 0.39 | 0.56 | 0.39 | 0.64 | 0.72 | 0.57 | 0.73 | 0.44 |
| 18 | 216 | 0.27 | 0.34 | 0.49 | 0.34 | 0.58 | 0.67 | 0.50 | 0.68 | 0.39 |
| 20 | 240 | 0.24 | 0.30 | 0.44 | 0.31 | 0.52 | 0.62 | 0.45 | 0.63 | 0.35 |



FASTENERS

Power-Strut Clamping Nuts are cold formed, with two grooves, each with six sharp teeth and then case hardened. These sharp hardened teeth bite into the inturned edges of the Power-Strut channel forming a strong vise-like connection giving greater strength and resistance to slippage.

MATERIAL:

Channel clamping nuts meet ASTM A576 GR1015M, and are case hardened. Hex head bolts meet SAE J429 GR 2. Square and hex nuts meet ASTM A563 GR A.

SCREW THREADS DATA:

All Power-Strut nuts and bolts are manufactured to meet the Unified Screw Threads standard, ANSI B1.1, Coarse Series UNC, class 2. Continuous Threaded Rod: Meets ASTM A-510.




STANDARD FINISH:

All fasteners have an electro-galvanized finish.

RECOMMENDED BOLT TORQUE:

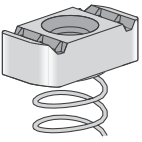
| Bolt Size | 1/4"-20 | 5/16"-18 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 |
|--------------------|---------|----------|---------|---------|---------|---------|
| Rec. Torque Ft/Lbs | 6 | 11 | 19 | 50 | 100 | 125 |
| Max. Torque Ft/Lbs | 7 | 15 | 25 | 70 | 125 | 135 |

Channel Nut Selection Chart

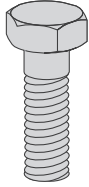
| Nuts Channel |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| | PS LS | PS SS | PS RS | PS NS | PS NS S | PS 517 | PS TG | PS 3281 | PS 3500 | PS ML | PS KW |
|  PS 100 1 1/2 x 3/4 x 12 ga. | ✓ | | | ✓ | | | ✓ | ✓ | | ✓ | ✓ |
|  PS 150 1 1/2 x 2 1/8 x 12 ga. | ✓ | | | ✓ | | | ✓ | ✓ | | ✓ | ✓ |
|  PS 200 1 1/2 x 1 1/2 x 12 ga. | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|  PS 210 1 1/2 x 1 1/2 x 14 ga. | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|  PS 300 1 1/2 x 1 1/2 x 12 ga. | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|  PS 400 1 1/2 x 1 x 12 ga. | | ✓ | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ |
|  PS 500 1 1/2 x 1 3/8 x 14 ga. | | ✓ | | ✓* | ✓ | | ✓ | ✓ | | ✓ | ✓ |
|  PS 520 1 1/2 x 1 3/8 x 12 ga. | | ✓ | | ✓* | ✓ | | ✓ | ✓ | | ✓ | ✓ |
|  PS 560 1 1/2 x 1 3/8 x 16 ga. | | ✓ | | ✓* | ✓ | | ✓ | ✓ | | ✓ | ✓ |

✓ Indicates Nuts To Be Used With The Channel

* 3/8" or smaller

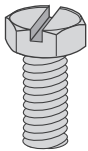


PS 6024 – Hex Head Cap Screw



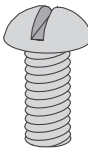
| Size | Wt./100 pcs |
|--------------|-------------|
| 1/4 x 3/4" | 1.5 |
| 1/4 x 1" | 1.8 |
| 1/4 x 1 1/4" | 2.1 |
| 1/4 x 1 1/2" | 2.4 |
| 3/8 x 3/4" | 3.6 |
| 3/8 x 1" | 4.2 |
| 3/8 x 1 1/4" | 4.9 |
| 3/8 x 1 1/2" | 5.6 |
| 3/8 x 2" | 7.2 |
| 1/2 x 3/4" | 8.1 |
| 1/2 x 1" | 9.2 |
| 1/2 x 1 1/4" | 10.4 |
| 1/2 x 1 1/2" | 11.6 |
| 1/2 x 1 3/4" | 13.0 |
| 1/2 x 2" | 14.4 |

PS 6075 – Slotted Hex Head Machine Screw



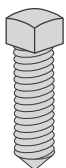
| Size | Wt./100 pcs |
|---------------|-------------|
| 1/4 x 3/4" | 1.7 |
| 5/16 x 1" | 2.6 |
| 5/16 x 1 1/4" | 3.0 |
| 5/16 x 1 1/2" | 3.4 |
| 3/8 x 1 1/4" | 5.3 |

PS 6072 – Round Head Machine Screw



| Size | Wt./100 pcs |
|--------------|-------------|
| 1/4 x 3/4" | 1.3 |
| 1/4 x 1" | 1.6 |
| 1/4 x 1 1/4" | 1.9 |
| 3/8 x 1" | 4.4 |
| 3/8 x 1 1/4" | 5.0 |
| 3/8 x 1 1/2" | 5.6 |

PS 6064 – Square Head Cone Point Set Screw



| Size | Wt./100 pcs |
|--------------|-------------|
| 3/8 x 1 1/2" | 4.5 |
| 3/8 x 2" | 6.1 |
| 1/2 x 1 1/2" | 8.5 |
| 1/2 x 2" | 11.4 |

PS 83 – Hexagon Nut



| Size | Wt./100 pcs |
|------|-------------|
| 1/4" | 0.7 |
| 3/8" | 1.6 |
| 1/2" | 3.8 |
| 5/8" | 7.3 |
| 3/4" | 11.9 |

PS 6108 – Square Nut



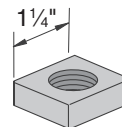
| Size | Wt./100 pcs |
|-------|-------------|
| 1/4" | .9 |
| 5/16" | 1.6 |
| 3/8" | 2.6 |
| 1/2" | 5.8 |

PS 209 – Flat Washer



| Size Pcs. | Outside Diameter | Wt./100 pcs |
|-----------|------------------|-------------|
| 1/4" | 3/4" | 0.7 |
| 3/8" | 1" | 1.5 |
| 1/2" | 1 3/8" | 3.9 |
| 5/8" | 1 3/4" | 7.7 |
| 3/4" | 2" | 11 |

PS 6112 – Oversize Square Nut



| Size | Wt./100 pcs |
|---------|-------------|
| 1/4"-20 | 13 |
| 3/8"-16 | 14 |
| 1/2"-13 | 14 |
| 5/8"-11 | 12 |
| 3/4"-16 | 11 |
| 7/8"-11 | 10 |

FASTENERS

Finish: Electro-galvanized Order By: No., Size and Finish



PS 230 – Fender Washer



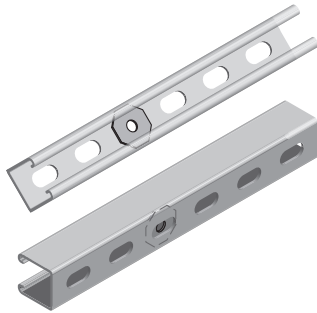
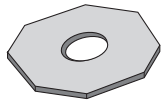
| Size | Wt./100 pcs |
|------|-------------|
| 1/4" | 3.3 |
| 3/8" | 3.0 |
| 1/2" | 2.8 |

PS 211 – Lock Washer



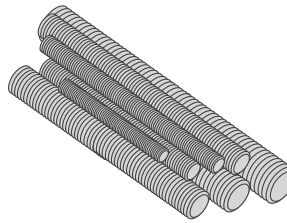
| Size | Wt./100 pcs |
|------|-------------|
| 1/4" | 0.3 |
| 3/8" | 0.7 |
| 1/2" | 1.5 |

PS 231 – Slot Adapter



| Size | Wt./100 pcs |
|------|-------------|
| 1/4" | 1.0 |
| 3/8" | 1.5 |

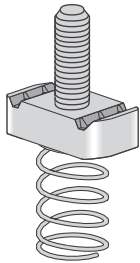
PS 146 – Continuous Thread Rod



Finish: Plain or Electro-galvanized
Standard Length: 6' or 10';
 Other lengths available
 Low Carbon Steel
 Fy = 32,000 psi minimum
 Ft = 52,000 psi minimum

| Rod Size | Wt./100 pcs. | | |
|----------|--------------|-------------|-------------|
| | 6' Lengths | 10' Lengths | 12' Lengths |
| 1/4" | 73 | 121 | 146 |
| 3/8" | 175 | 292 | 350 |
| 1/2" | 319 | 531 | 638 |
| 5/8" | 504 | 840 | 1,008 |
| 3/4" | 740 | 1,234 | 1,480 |

PS 517 – Channel Nut with Stud

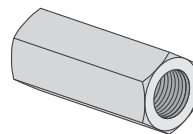


| Size | Wt./100 pcs |
|---------------|-------------|
| 1/4" x 1" | 8.1 |
| 1/4" x 1 1/4" | 8.3 |
| 1/4" x 1 1/2" | 8.6 |
| 1/4" x 2" | 9.1 |
| 3/8" x 1" | 13.0 |
| 3/8" x 1 1/4" | 14.0 |
| 3/8" x 1 1/2" | 14.0 |
| 3/8" x 2" | 15.0 |
| 1/2" x 1" | 15.0 |
| 1/2" x 1 1/4" | 16.0 |
| 1/2" x 1 1/2" | 17.0 |
| 1/2" x 2" | 19.0 |

Use With: PS 200, PS 210 and PS 300 channel.

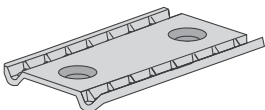
Load Information: See the technical data section, page 168

PS 135 – Rod Coupling



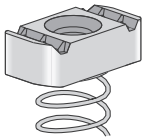
| Rod Size | Max Load lbs. | Wt./100 pcs. |
|----------|---------------|--------------|
| 1/4" | 240 | 2 |
| 3/8" | 610 | 9 |
| 1/2" | 1,130 | 10 |
| 5/8" | 1,810 | 18 |
| 3/4" | 2,710 | 28 |

PS 3281 – Double Conveyor Adjusting Nut



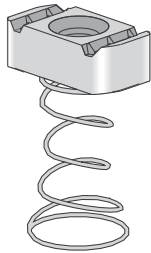
| Size | Threads | Wt./100 pcs |
|------|---------|-------------|
| 3/8" | 16 | 17.5 |

Use With: All 1 5/8" channel.



Finish: Electro-galvanized Order By: No., Size and Finish

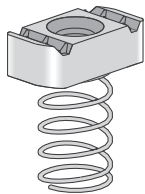
PS LS – Clamping Nut with Long Spring



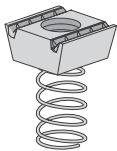
| Size | Threads | Wt./100 pcs |
|------|---------|-------------|
| 1/4" | 20 | 7.5 |
| 3/8" | 16 | 10.2 |
| 1/2" | 13 | 12.3 |
| 5/8" | 11 | 15.8 |
| 3/4" | 10 | 14.1 |

Use With: PS 100 and PS 150 Channel.

PS RS – Clamping Nut with Long Spring



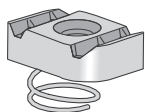
| Size | Threads | Wt./100 pcs |
|--------|---------|-------------|
| #8-32 | 32 | 7.0 |
| #10-24 | 24 | 7.2 |
| #10-32 | 32 | 7.2 |
| 1/4" | 20 | 7.1 |
| 5/16" | 18 | 7.0 |
| 3/8" | 16 | 9.9 |
| 1/2" | 13 | 11.9 |



| Size | Threads | Wt./100 pcs |
|------|---------|-------------|
| 5/8" | 11 | 15.5 |
| 3/4" | 10 | 13.8 |
| 7/8" | 9 | 14.3 |

Use With: PS 200, PS 210 and PS 300 Channel.

PS SS – Clamping Nut with Short Spring

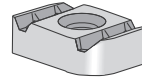


| Size | Threads | Wt./100 pcs |
|--------|---------|-------------|
| #8-32 | 32 | 7.0 |
| #10-24 | 24 | 7.0 |
| #10-32 | 32 | 7.0 |
| 1/4" | 20 | 6.9 |
| 5/16" | 18 | 6.7 |
| 3/8" | 16 | 9.6 |
| 1/2" | 13* | 8.8 |
| 5/8" | 11* | 11.5 |
| 3/4" | 10* | 10.0 |

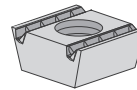
Use With: PS 400, PS 500, PS 520, and PS 560 channel.

*PS SS 1/2" and PS SS 5/8" nuts have 3/8" body thickness.

PS NS – Clamping Nut without Spring



| Size | Threads | Wt./100 pcs |
|--------|---------|-------------|
| #8-32 | 32* | 8.0 |
| #10-32 | | 6.6 |
| #10-24 | 24* | 6.7 |
| 1/4" | 20* | 6.6 |
| 5/16" | 18* | 6.4 |
| 3/8" | 16* | 9.3 |
| 1/2" | 13 | 11.4 |

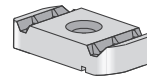


| Size | Threads | Wt./100 pcs |
|------|---------|-------------|
| 5/8" | 11 | 15.2 |
| 3/4" | 10 | 13.0 |
| 7/8" | 9 | 14.0 |

Use With: PS 100, PS 150, PS 200, PS 210 and PS 300 channel.

*Can be used with PS 400, PS 500, PS 520 and PS 560 channel.

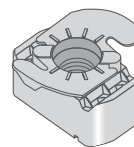
PS NS S – Shallow Clamping Nut without Spring



| Size | Threads | Wt./100 pcs |
|------|---------|-------------|
| 1/2" | 13 | 6.9 |
| 5/8" | 11 | 9.7 |
| 3/4" | 10 | 8.4 |

Use With: PS 500, PS 520, and PS 560 channel.

PS TG – Top Grip™ Nut

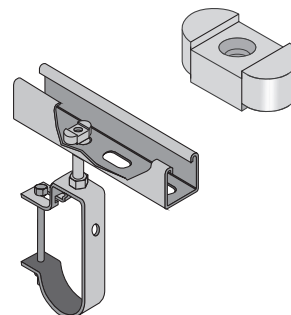


| Part No. | Size | Threads | Wt./100 pcs |
|-----------|------|---------|-------------|
| PSTG 1/4 | 1/4" | 20 | 7 |
| PSTG 3/8 | 3/8" | 16 | 10 |
| PSTG 1/2* | 1/2" | 13 | 8 |

Use With: All 1 1/8" Channel.

*PS TG 1/2" nut has a 3/8" body thickness

PS ML – Missing Link Multi-Purpose Strut Fastener



Use With: Any slotted channel.

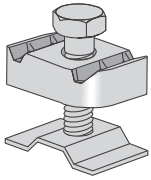
| Size | Threads | Wt./100 pcs |
|------|---------|-------------|
| 1/2" | 13 | 6.9 |
| 5/8" | 11 | 9.7 |
| 3/4" | 10 | 8.4 |

FASTENERS

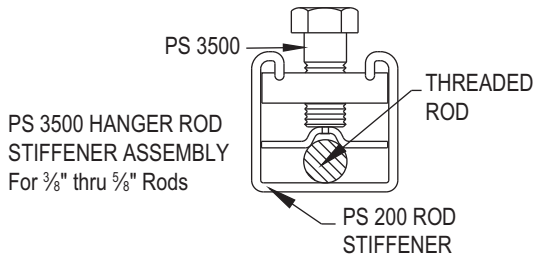
Finish: Electro-galvanized Order By: No., Size and Finish



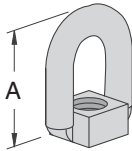
PS 3500 3/8" - 5/8" - Seismic Rod Stiffener



| Part No. | Wt./100 pcs |
|-------------------|-------------|
| PS 3500 3/8"-5/8" | 16 |

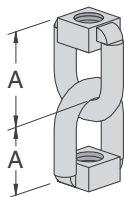


PS 202 - Eyelet



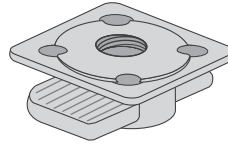
| Rod Size | A | Stock Dia. | Max. Load lbs. | Wt. 100 pcs |
|----------|--------|------------|----------------|-------------|
| 3/8" | 1 3/4" | 3/8" | 610 | 15 |
| 1/2" | | | | 18 |

PS 204 - Linked Eyelets



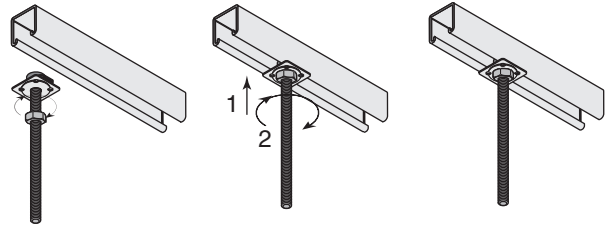
| Rod Size | A | Stock Dia. | Max. Load lbs. | Wt./100 pcs |
|----------|---------|------------|----------------|-------------|
| 3/8" | 1 7/16" | 3/8" | 610 | 23 |
| 1/2" | 1 3/8" | | | 32 |

PS KW - Kwik Washer™

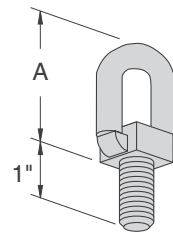


| Size | Load Lbs | Wt./100 pcs |
|------|----------|-------------|
| 1/4" | 250 | 1.2 |
| 3/8" | 610 | 2.6 |
| 1/2" | 1,130 | 9.3 |

Use With: Any channel.

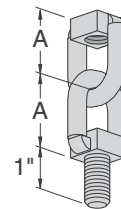


PS 205 - Eyelet with Stud

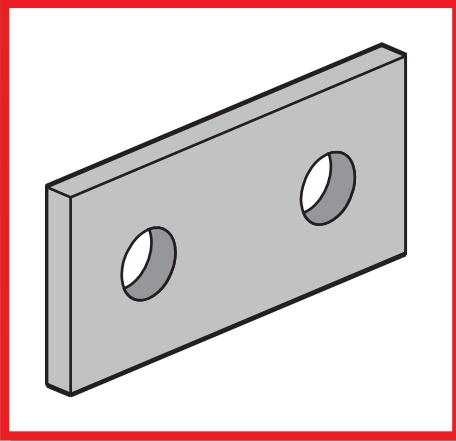


| Thread Size | A | Stock Dia. | Max. Load lbs. | Wt./100 pcs |
|-------------|----------|------------|----------------|-------------|
| 3/8" | 1 13/16" | 3/8" | 610 | 16 |
| 1/2" | 1 3/4" | | | 20 |

PS 203 - Linked Eyelet with Stud



| Rod Size | A | Stock Dia. | Max. Load lbs. | Wt./100 pcs |
|----------|---------|------------|----------------|-------------|
| 3/8" | 1 7/16" | 3/8" | 610 | 27 |
| 1/2" | 1 3/8" | | | 45 |



FITTINGS

Power-Strut has a wide variety of fittings to meet all of your application requirements

MATERIAL:

All Power-Strut fittings are formed in punch press dies from mild, pickled and oiled, bar or strip steel. Plain or electro-galvanized fittings meet the requirements for ASTM A575 and A-576, or ASTM A-36.

STANDARD DIMENSIONS:

Standard dimensions on all fittings are as follows except where otherwise indicated:

Fitting Thickness: $\frac{1}{4}$ "
 Fitting Width: $1\frac{5}{8}$ "
 Hole Diameter: $\frac{9}{16}$ "
 Hole Spacing: $1\frac{7}{8}$ " on centers and $1\frac{3}{16}$ " from ends.

STANDARD FINISH:

All Power-Strut fittings are available in painted green or electro-galvanized finish.

ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number.
 See pages 8-9 for finish abbreviations and an example.

SET SCREW TORQUE:

| BOLT SIZE | $\frac{1}{4}$ "-20 | $\frac{5}{16}$ "-18 | $\frac{3}{8}$ "-16 | $\frac{1}{2}$ "-13 | $\frac{5}{8}$ "-11 | $\frac{3}{4}$ "-10 |
|-------------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| Set Screw Torque In/Lbs | 40 | 60 | 125 | 250 | 400 | 665 |

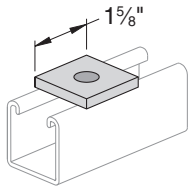
Note: Caution should be taken not to overtighten the set screw

FITTINGS

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish



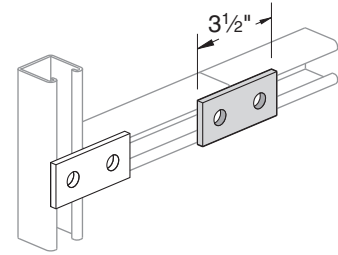
PS 619 – Square Washer



Note: Indicate rod size when ordering.
For example, PS 619 1/2.

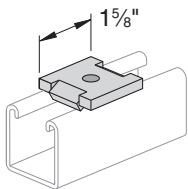
| Rod Size | Hole Size | Wt./100 pcs |
|----------|-----------|-------------|
| 1/4" | 11/32" | 18 |
| 3/8" | 7/16" | 18 |
| 1/2" | 9/16" | 17 |
| 5/8" | 11/16" | 16 |
| 3/4" | 13/16" | 15 |

PS 601 – Two-Hole Splice Plate



Weight/100 pcs: 38 lbs.

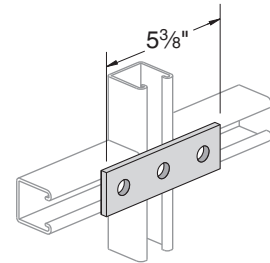
PS 2504 – Guided Square Washer



Note: Indicate rod size when ordering.
For example, PS 2504 1/2.

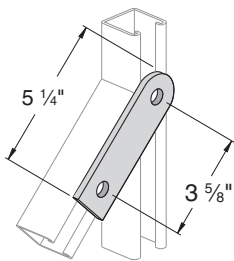
| Rod Size | Hole Size | Wt./100 pcs |
|----------|-----------|-------------|
| 1/4" | 11/32" | 18 |
| 3/8" | 7/16" | 18 |
| 1/2" | 9/16" | 17 |

PS 602 – Three-Hole Splice Plate



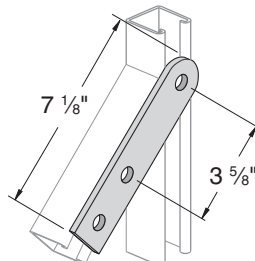
Weight/100 pcs: 50 lbs.

PS 618 – Two-Hole Swivel Plate



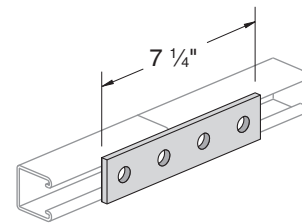
Weight/100 pcs: 55 lbs.

PS 617 – Three-Hole Swivel Plate



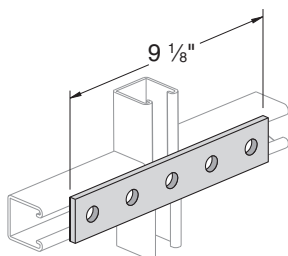
Weight/100 pcs: 75 lbs.

PS 888 – Four-Hole Splice Plate



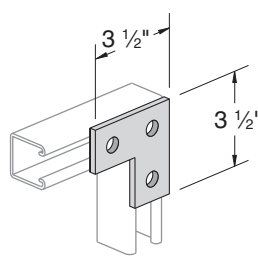
Weight/100 pcs: 78 lbs.

PS 889 – Five-Hole Splice Plate



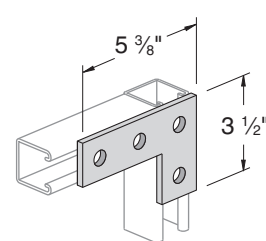
Weight/100 pcs: 94 lbs.

PS 718 – Flat Angle Plate

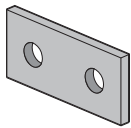


Weight/100 pcs: 58 lbs.

PS 719 – Flat Angle Plate

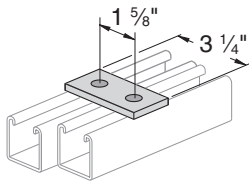


Weight/100 pcs: 80 lbs.



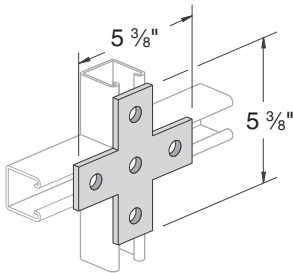
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

PS 620 – Two-Hole Connecting Plate



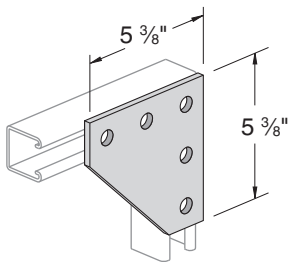
Weight/100 pcs: 35 lbs.

PS 712 – Cross Plate



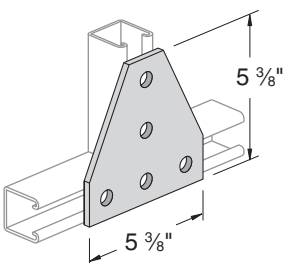
Weight/100 pcs: 105 lbs.

PS 2190 – Flat Corner Connector



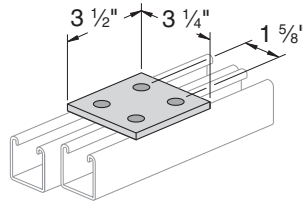
Weight/100 pcs: 150 lbs.

PS 854 – Flat Connector



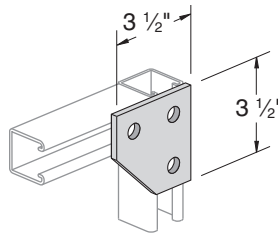
Weight/100 pcs: 148 lbs.

PS 621 – Four-Hole Connecting Plate



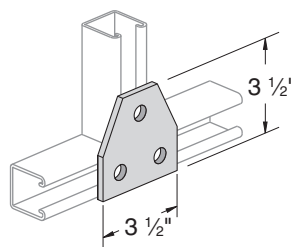
Weight/100 pcs: 73 lbs.

PS 744 – Flat Corner Connector



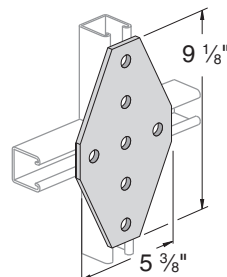
Weight/100 pcs: 70 lbs.

PS 925 – Three-Hole Joint Connector



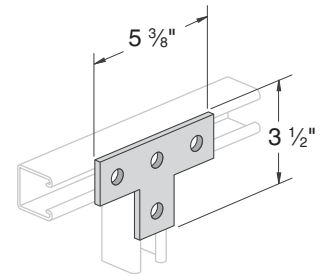
Weight/100 pcs: 70 lbs.

PS 2112 – Cross Connector



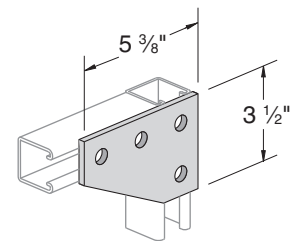
Weight/100 pcs: 240 lbs.

PS 714 – Tee Plate



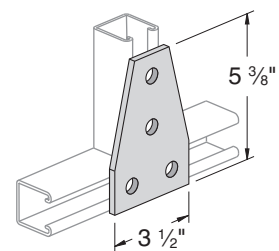
Weight/100 pcs: 80 lbs.

PS 750 – Four-Hole Corner Connector



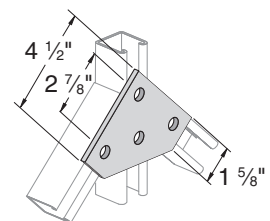
Weight/100 pcs: 105 lbs.

PS 747 – Symmetrical Four-Hole Connector



Weight/100 pcs: 105 lbs.

PS 822 – Double 45° Connector



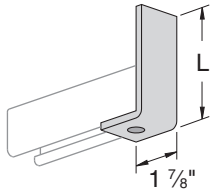
Weight/100 pcs: 112 lbs.

FITTINGS

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

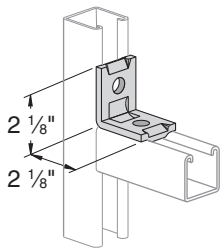


PS 921 – One-Hole Angle



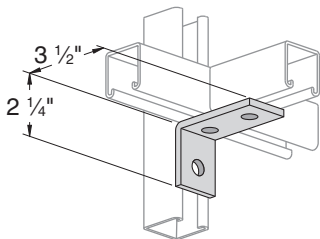
| Part No. | L | Wt./100 pcs |
|----------|--------|-------------|
| PS 921 A | 3 7/8" | 61 |
| PS 921 B | 5 7/8" | 84 |
| PS 921 C | 7 7/8" | 107 |
| PS 921 D | 9 7/8" | 130 |

PS 806 – Self-Aligning Two-Hole Angle



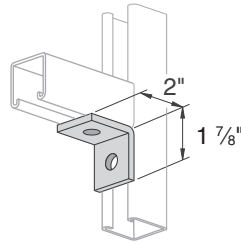
Weight/100 pcs: 40 lbs.

PS 605 – Three-Hole Corner Angle



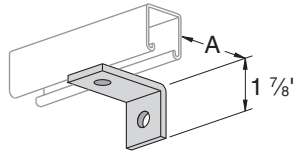
Weight/100 pcs: 58 lbs.

PS 603 – Two-Hole End Angle



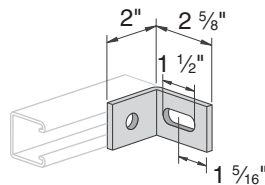
Weight/100 pcs: 38 lbs.

PS 2144 – Corner Angle



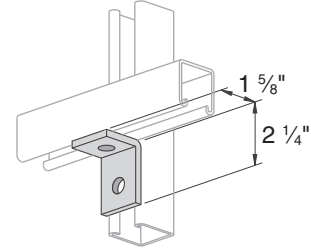
| A | Wt./100 pcs |
|--------|-------------|
| 3" | 49 |
| 3 1/2" | 54 |
| 4" | 61 |

PS 2520 – Slotted 90° Angle



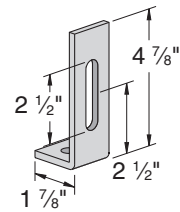
Weight/100 pcs: 42 lbs.

PS 604 – Two-Hole Corner Angle



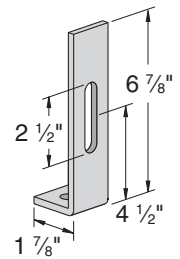
Weight/100 pcs: 38 lbs.

PS 763 – Slotted Adjustment Angle



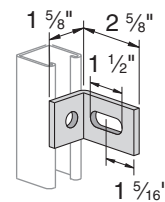
Weight/100 pcs: 65 lbs.

PS 764 – Slotted Adjustment Angle

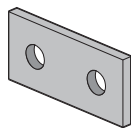


Weight/100 pcs: 85 lbs.

PS 2545 – Slotted 90° Angle



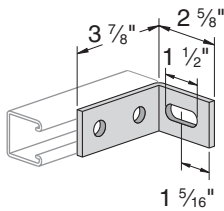
Weight/100 pcs: 38 lbs.



Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

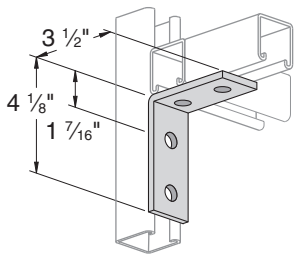
Metal Channel
Fasteners
Fittings
Pipe & Conduit Clamps
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Uniplier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

PS 3049 – Two-Hole Slotted 90° Angle



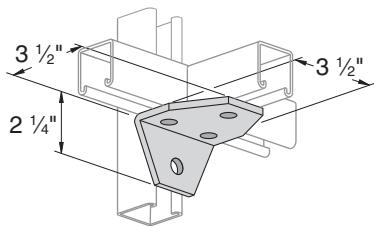
Weight/100 pcs: 66 lbs.

PS 607 – Four-Hole Corner Angle



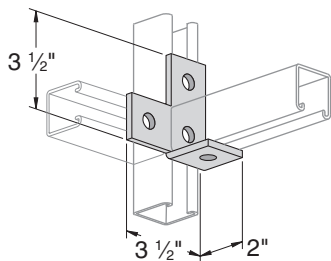
Weight/100 pcs: 78 lbs.

PS 614 – Four-Hole Joint Angle Connector



Weight/100 pcs: 103 lbs.

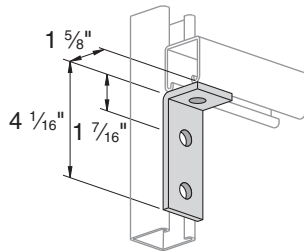
PS 716 R or L – Angle Tee Plate



Note:
Specify R (Right) or L (Left) Right Hand Illustrated

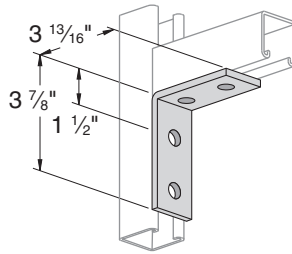
Weight/100 pcs: 80 lbs.

PS 606 – Three-Hole Corner Angle



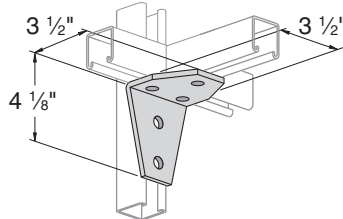
Weight/100 pcs: 58 lbs.

PS 660 – Four-Hole Corner Angle



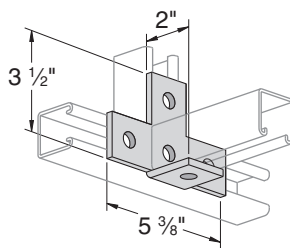
Weight/100 pcs: 78 lbs.

PS 615 – Five-Hole Joint Angle Connector



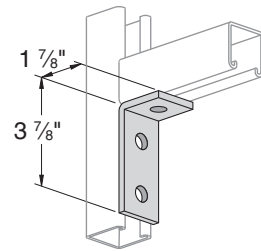
Weight/100 pcs: 135 lbs.

PS 713 – Cross Plate Angle



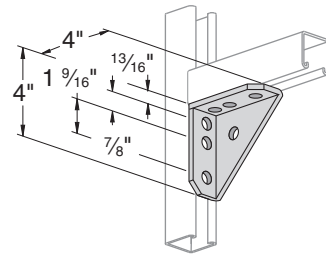
Weight/100 pcs: 105 lbs.

PS 745 – Three-Hole Corner Angle



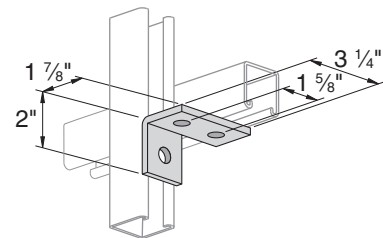
Weight/100 pcs: 58 lbs.

PS 3373 – Universal Corner Connector



Weight/100 pcs: 134 lbs.

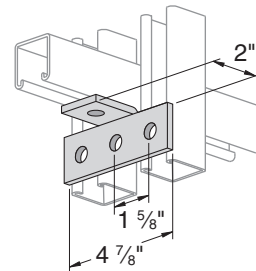
PS 720 R or L – Angle Plate Connector



Note:
Specify R (Right) or L (Left) Right Hand Illustrated

Weight/100 pcs: 55 lbs.

PS 715 – Tee Plate 90° Angle



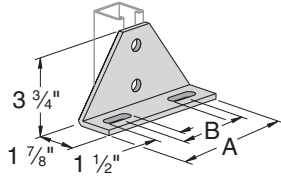
Weight/100 pcs: 71 lbs.

FITTINGS

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

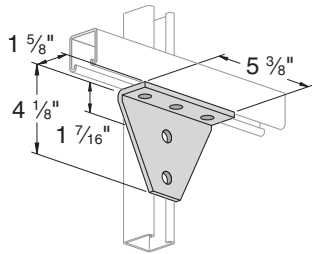


PS 689A, PS 689B – Double-Slotted Corner Connector



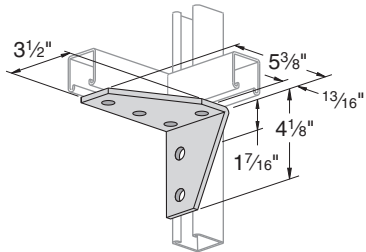
| Part No. | A | B | Wt./100 pcs |
|----------|---------------------------------|----|-------------|
| PS 689 A | 6 ⁵ / ₈ " | 4" | 190 |
| PS 689 B | 8 ⁵ / ₈ " | 6" | 242 |

PS 927 – Five-Hole Corner Connector



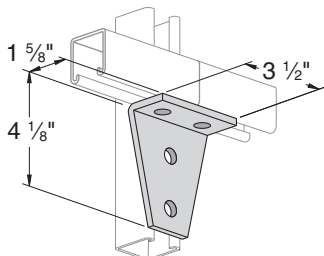
Weight/100 pcs: 154 lbs.

PS 2007 R OR L – Six-Hole Corner Connector



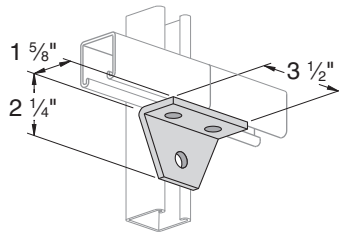
Note:
Specify R (Right) or L (Left) Right Hand Illustrated
Weight/100 pcs: 160 lbs.

PS 748 – Four-Hole Corner Joint Connector



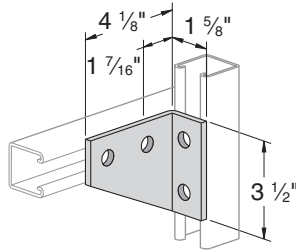
Weight/100 pcs: 105 lbs.

PS 746 – Three-Hole Corner Joint Connector



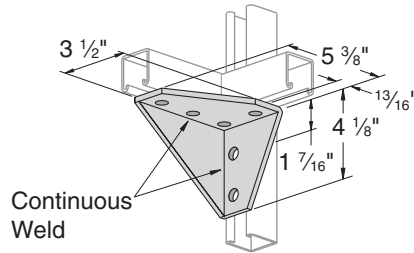
Weight/100 pcs: 70 lbs.

PS 752 R OR L – Four-Hole Corner Connector



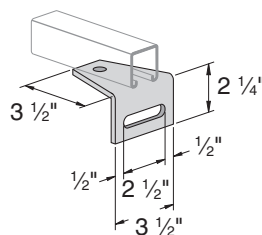
Note:
Specify R (Right) or L (Left) Right Hand Illustrated
Weight/100 pcs: 105 lbs.

PS 3326 R OR L – Six-Hole Gusseted Corner Connector



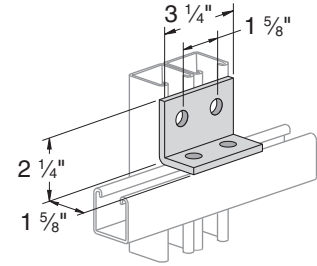
Note:
Specify R (Right) or L (Left) Right Hand Illustrated
Weight/100 pcs: 230 lbs.

PS 2113 – Slotted Corner Connector



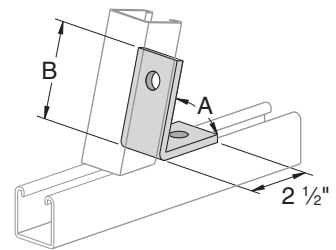
Weight/100 pcs: 97 lbs.

PS 622 – Four-Hole Corner Connector



Weight/100 pcs: 75 lbs.

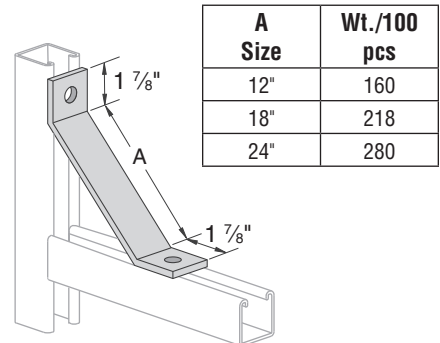
PS 624 – Two-Hole Closed Angle Connector



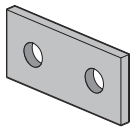
| "B" In. | "A" Angle |
|----------------------------------|----------------------------------|
| 3" | 37 ¹ / ₂ ° |
| 3 ¹ / ₈ " | 45° |
| 3 ¹ / ₁₆ " | 52 ¹ / ₂ ° |
| 3 ¹ / ₈ " | 60° |
| 3 ¹ / ₈ " | 67 ¹ / ₂ ° |
| 3 ³ / ₁₆ " | 75° |
| 3 ³ / ₁₆ " | 82 ¹ / ₂ ° |

Weight/100 pcs: 58 lbs.

PS 926 – Strut Brace

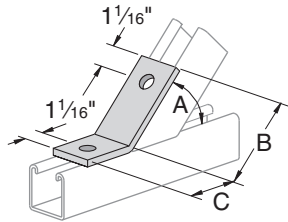


| A Size | Wt./100 pcs |
|--------|-------------|
| 12" | 160 |
| 18" | 218 |
| 24" | 280 |



Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

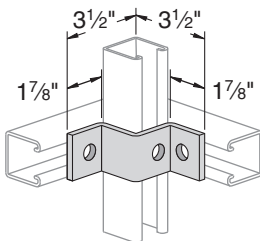
PS 633 – Two-Hole Open Angle Connector



| "A" Degree | "B" In. | "C" In. |
|------------|----------|----------|
| 82½° | 3¾" | 1 11/16" |
| 75° | 3¾" | |
| 67½° | 3½" | 1¾" |
| 60° | 3¾" | 1 7/8" |
| 52½° | 3¼" | 2 1/16" |
| 45° | 3" | 2 5/16" |
| 37½° | 2 11/16" | 2 5/8" |
| 30° | 3 1/4" | 2 1/16" |
| 22½° | 3 5/16" | |
| 15° | 3 5/16" | |
| 7½° | 3 5/16" | |

Weight/100 pcs: 58 lbs.

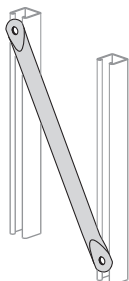
PS 2054 – Corner Connector



Use With: PS 200, PS 210

Weight/100 pcs: 66 lbs.

PS 810 – Diagonal Tube Brace

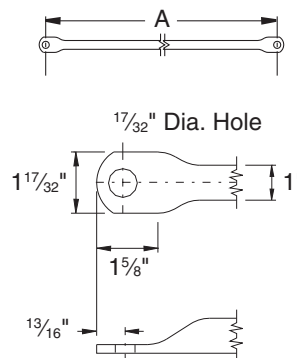


| Part No. | A Size | Wt./100 pcs |
|-----------|--------|-------------|
| PS 810 36 | 3'-0" | 205 |
| PS 810 42 | 3'-6" | 237 |
| PS 810 48 | 4'-0" | 270 |

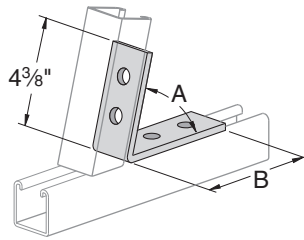
Note:
30° to 60° angle between the brace and channel is recommended for maximum effect.

Material: 1" dia. electric welded tubing

Stock Thickness: (.075) 14 ga.



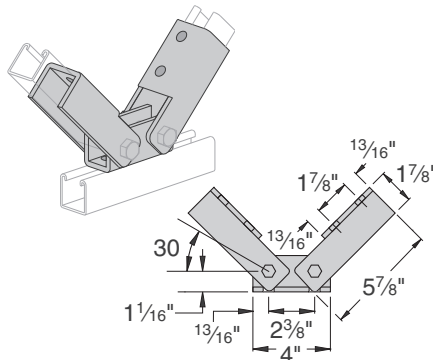
PS 793 – Four-Hole Closed Angle Connector



| "A" Angle | "B" In. |
|-----------|----------|
| 37½° | 4 7/8" |
| 45°- | 4 15/16" |
| 52½° | |
| 60° | 5" |
| 67½° | 5 1/16" |
| 75° | |
| 82½° | |

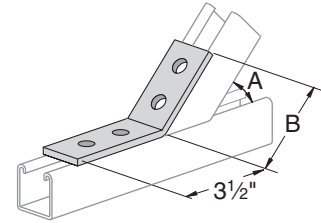
Weight/100 pcs: 100 lbs.

PS 9401 – Double Adjustable Brace



Weight/100 pcs: 307 lbs.

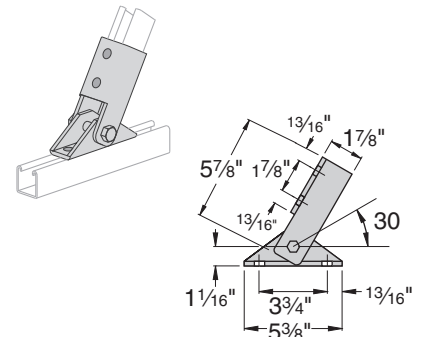
PS 781 – Four-Hole Open Angle Connector



| "A" Angle | "B" In. |
|-----------|----------|
| 7½° | 3¾" |
| 15° | |
| 22½° | |
| 30° | 3 11/16" |
| 37½° | |
| 45° | |
| 52½° | |
| 60° | 3 5/8" |
| 67½° | |
| 75° | |
| 82½° | |

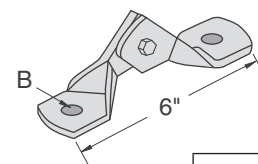
Weight/100 pcs: 78 lbs.

PS 9400 – Adjustable Brace



Weight/100 pcs: 307 lbs.

PS 9402 – Two-Hole Hinge Connector



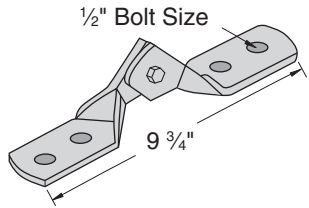
| "B" Bolt Size | Wt./100 pcs |
|---------------|-------------|
| ½" | 108 |
| 5/8" | 107 |
| ¾" | 106 |

FITTINGS

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

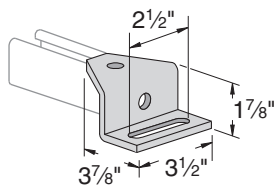


PS 9404 – Four-Hole Hinge Connector



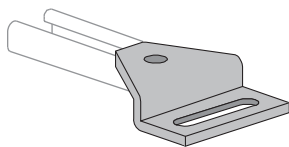
| Part No. | Wt./100 pcs |
|--------------|-------------|
| PS 9404-1/2" | 126 |

PS 692 – 1 5/8" Offset "Z" Connector



Weight/100 pcs: 102 lbs.

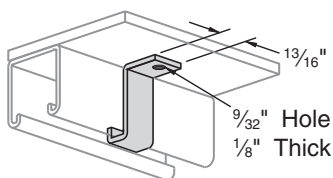
PS 2523 – Offset Adjustable "Z" Connector



Use With: PS 500, PS 520, & PS 560

Weight/100 pcs: 70 lbs.

PS 2532 – Shelf Attachment "Z"

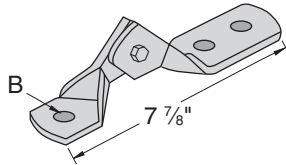


Stock Thickness: 1/8"

Use With: PS 200, PS 210

Weight/100 pcs: 9 lbs.

PS 9403 – Three-Hole Hinge Connector

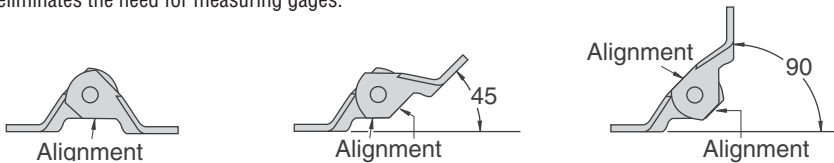


| "B" Bolt Size | Wt./100 pcs |
|---------------|-------------|
| 1/2" | 108 |
| 5/8" | 107 |
| 3/4" | 106 |

Hinge Connect or Auto-Alignment Guides -

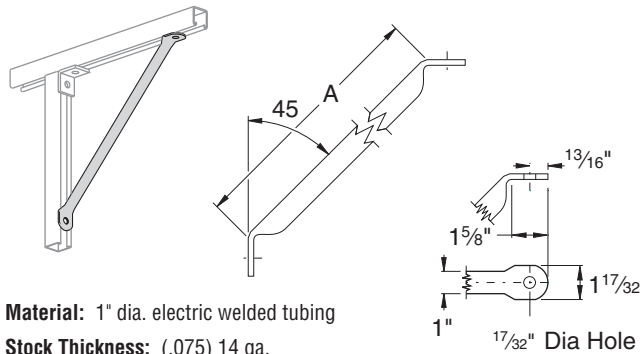
The unique edges of the two hinges have been designed to provide an alignment guide for 0°, 45° and 90° as shown in the drawings below.

This eliminates the need for measuring gages.



- Each half of the hinge is formed and welded for maximum strength.
- Hinged with Grade 5 bolt for superior strength.
- The nylon insert locknut prevents loosening of the hinge.

PS 812 – 45° Diagonal Tube Brace



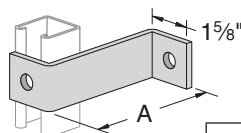
Material: 1" dia. electric welded tubing

Stock Thickness: (.075) 14 ga.

| A Size | Wt./100 pcs |
|--------|-------------|
| 12" | 88 |
| 18" | 116 |
| 24" | 149 |
| 30" | 181 |
| 36" | 214 |

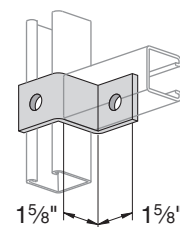
Design Load:
Tension = 300 lbs.
Comp. = 1,500 lbs.

PS 3060 – Offset Connector



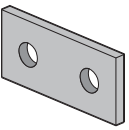
| A | Wt./100 pcs |
|----|-------------|
| 4" | 81 |
| 5" | 92 |
| 6" | 104 |
| 7" | 115 |
| 8" | 127 |

PS 647 – 1 7/8" Offset "Z" Connector



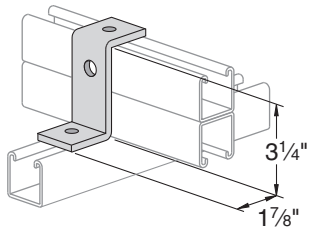
Use With: PS 200, PS 210

Weight/100 pcs: 55 lbs.



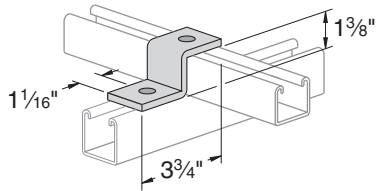
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

PS 756 - "Z" Support



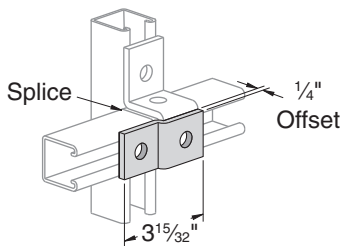
Use With: PS 100, PS 200 2T3, PS 210 2T3
Weight/100 pcs: 70 lbs.

PS 711 - "Z" Support



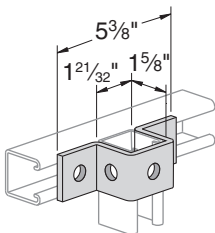
Use With: PS 300
Weight/100 pcs: 53 lbs.

PS 609 - Two-Hole Offset Plate Connector



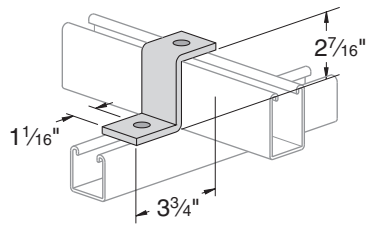
Weight/100 pcs: 38 lbs.

PS 613 - "U" Support



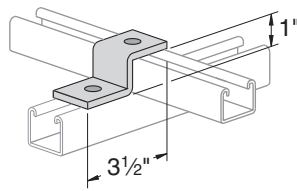
Use With: PS 200, PS 210
Weight/100 pcs: 88 lbs.

PS 2601 - "Z" Support



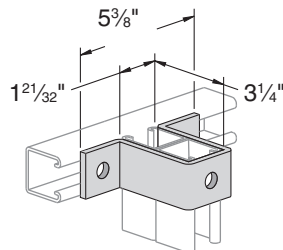
Use With: PS 150
Weight/100 pcs: 70 lbs.

PS 612 - "Z" Support



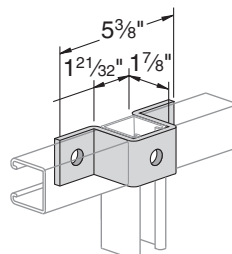
Use With: PS 400
Weight/100 pcs: 47 lbs.

PS 679 - "U" Support



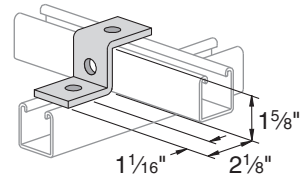
Use With: PS 100, PS 200 2T3, PS 210 2T3
Weight/100 pcs: 128 lbs.

PS 2119 - "U" Support



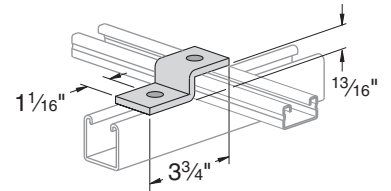
Use With: PS 200, PS 210
Weight/100 pcs: 95 lbs.

PS 611 - "Z" Support



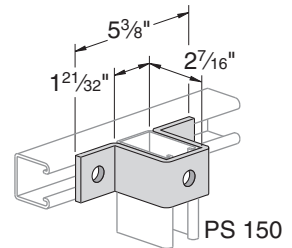
Use With: PS 200, PS 210
Weight/100 pcs: 55 lbs.

PS 928 - "Z" Support



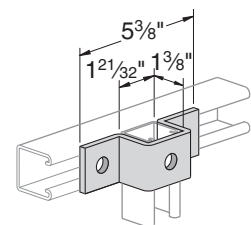
Use With: PS 500, PS 520 and PS 560
Weight/100 pcs: 47 lbs.

PS 2648 - "U" Support



Use With: PS 150
Weight/100 pcs: 108 lbs.

PS 710 - "U" Support



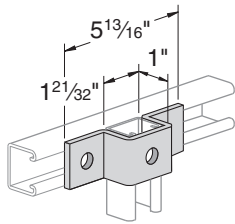
Use With: PS 300
Weight/100 pcs: 84 lbs.

FITTINGS

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish



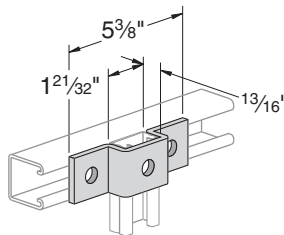
PS 978 - "U" Support



Use With: PS 400

Weight/100 pcs: 71 lbs.

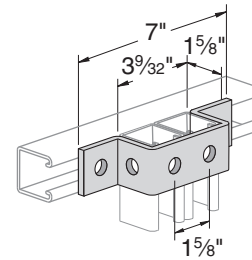
PS 929 - "U" Support



Use With: PS 500, PS 520 and PS 560

Weight/100 pcs: 71 lbs.

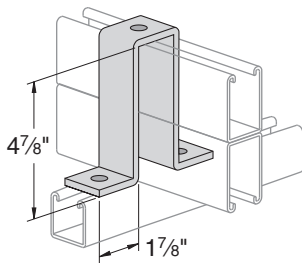
PS 721 - "U" Support



Use With: PS 100, PS 200 2T3, PS 210 2T3

Weight/100 pcs: 105 lbs.

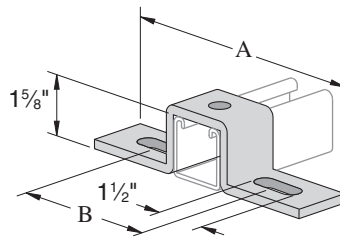
PS 678 - Three-Hole "U" Support



Use With: PS 150 2T3

Weight/100 pcs: 197 lbs.

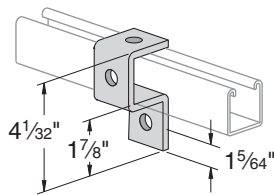
PS 687A, PS 687B & PS 687C - Slotted "U" Support



Use With: PS 200, PS 210

| Order No. | 'A' Length | 'B' Length | Wt./100 pcs |
|-----------|------------|------------|-------------|
| PS 687A | 7 1/4" | 4 1/8" | 105 |
| PS 687B | 8 1/2" | 5 3/8" | 120 |
| PS 687C | 10 3/8" | 7 1/4" | 130 |

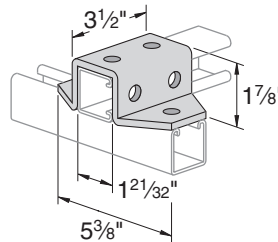
PS 677 - Cup Support for Standard Single Strut



Use With: PS 200, PS 210

Weight/100 pcs: 76 lbs.

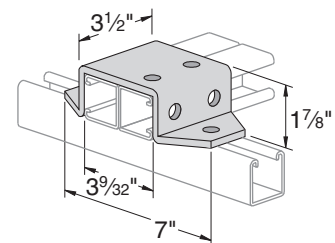
PS 733 - Six-Hole "U" Support



Use With: PS 200, PS 210

Weight/100 pcs: 171 lbs.

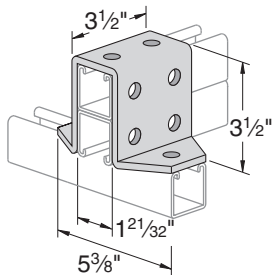
PS 734 - Eight-Hole "U" Support



Use With: PS 200 2T3

Weight/100 pcs: 209 lbs.

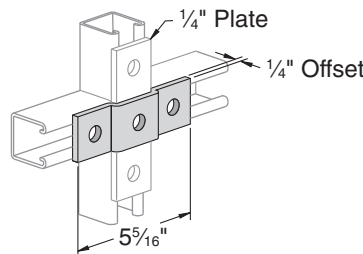
PS 735 - Eight-Hole "U" Support



Use With: PS 200 2T3

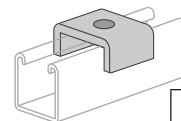
Weight/100 pcs: 257 lbs.

PS 709 - Three-Hole Offset Plate Connection



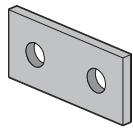
Weight/100 pcs: 58 lbs.

PS 623 - Saddle Washer



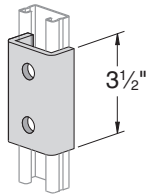
| Bolt Size | Wt./100 pcs |
|-----------|-------------|
| 1/4" | 14 |
| 3/8" | |
| 1/2" | 13 |
| 5/8" | |
| 3/4" | |

Weight/100 pcs: 265 lbs.



Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

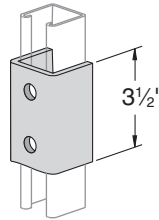
PS 644 – Two-Hole Splice Clevis



Use With: PS 500, PS 520 and PS 560

Weight/100 pcs: 85 lbs.

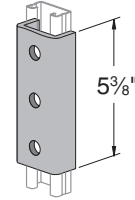
PS 631 – Two-Hole Splice Clevis



Use With: PS 200, PS 210

Weight/100 pcs: 128 lbs.

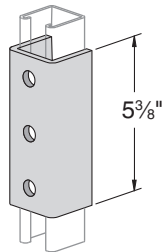
PS 645 – Three-Hole Splice Clevis



Use With: PS 500, PS 520 and PS 560

Weight/100 pcs: 130 lbs.

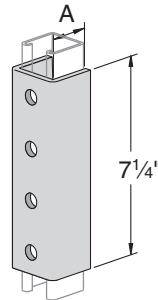
PS 629 – Three-Hole Splice Clevis



Use With: PS 200 and PS 210

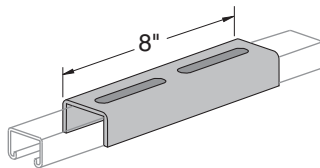
Weight/100 pcs: 197 lbs.

PS 616, PS 646 – Four-Hole Splice Clevis



| Part No. | A | For Use With | Wt./100 pcs |
|------------|---------|----------------|-------------|
| PS 616 | 1 1/16" | PS 200, PS 210 | 265 |
| PS 646 | 1 3/16" | PS 500, PS 560 | 176 |
| PS 616-100 | 3 3/16" | PS 100 | 390 |
| PS 616-150 | 2 3/8" | PS 150 | 390 |

PS 804 – Slotted Joiner



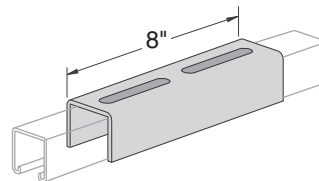
Stock Thickness: (.105)

Use With: PS 400S, PS 500S, PS 520S and PS 560S

Note: Order PS 6072 screws & PS 6108 nuts separately.

Weight/100 pcs: 80 lbs.

PS 704 – Slotted Joiner



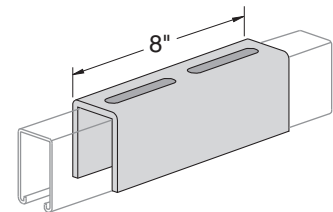
Stock Thickness: (.105)

Use With: PS 200S, PS 210S

Note: Order PS 6072 screws & PS 6108 nuts separately.

Weight/100 pcs: 197 lbs.

PS 1004 – Slotted Joiner



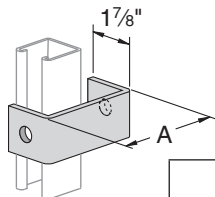
Stock Thickness: (.105)

Use With: PS 150S

Note: Order PS 6072 screws & PS 6108 nuts separately.

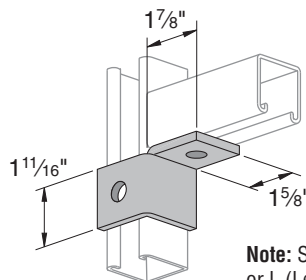
Weight/100 pcs: 140 lbs.

PS 993 – Inside Clevis Hanger



| A Size | Wt./100 pcs |
|--------|-------------|
| 4" | 78 |
| 5" | 89 |
| 6" | 101 |
| 7" | 112 |
| 8" | 124 |

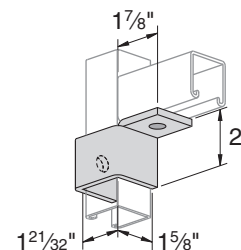
PS 922 R OR L – Two-Hole Corner Connector



Note: Specify R (Right) or L (Left) Right Hand Illustrated

Weight/100 pcs: 60 lbs.

PS 2117 R OR L – Wrap-Around Corner Connector



Note: Specify R (Right) or L (Left) Right Hand Illustrated

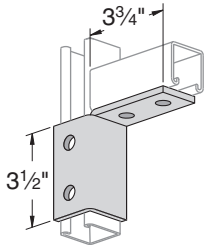
Weight/100 pcs: 75 lbs.

FITTINGS

Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish



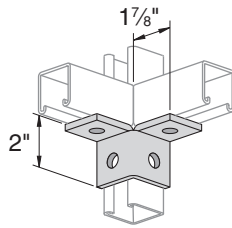
PS 2128 R or L – Four-Hole Corner Connector



Note:
Specify R (Right) or L (Left) Right Hand Illustrated

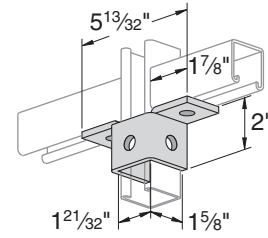
Weight/100 pcs: 119 lbs.

PS 665 – Four-Hole Double Corner Connector



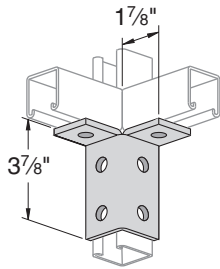
Weight/100 pcs: 76 lbs.

PS 923 – Five-Hole Double Wing Connector



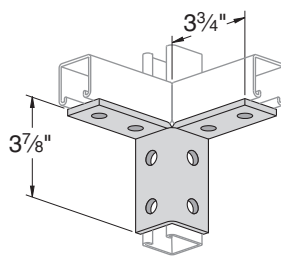
Weight/100 pcs: 93 lbs.

PS 666 – Six-Hole Double Corner Connector



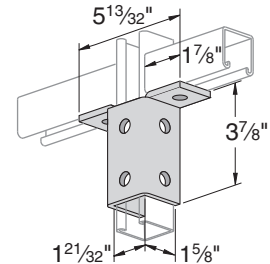
Weight/100 pcs: 115 lbs.

PS 667 – Eight-Hole Double Corner Connector



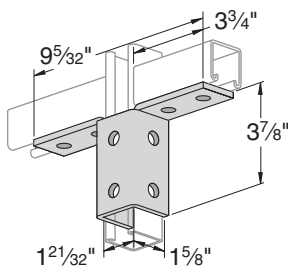
Weight/100 pcs: 155 lbs.

PS 821 – Eight-Hole Double Wing Connector



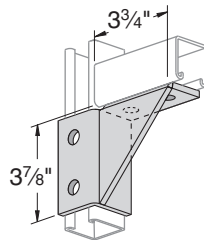
Weight/100 pcs: 150 lbs.

PS 913 – Ten-Hole Double Wing Connector



Weight/100 pcs: 193 lbs.

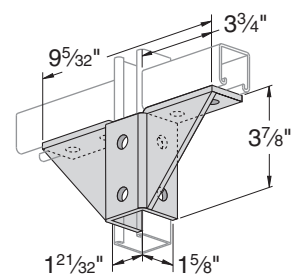
PS 2129 R or L – Single Corner Gussetted Connector



Note:
Specify R (Right) or L (Left) Right Hand Illustrated

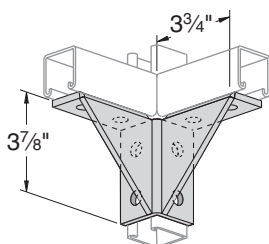
Weight/100 pcs: 176 lbs.

PS 945 – Ten-Hole Gussetted Double Wing Connector



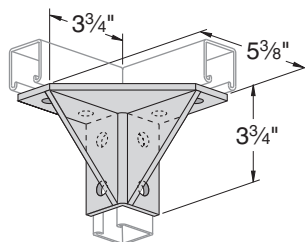
Weight/100 pcs: 274 lbs.

PS 943 – Eight-Hole Gussetted Double Corner Connector



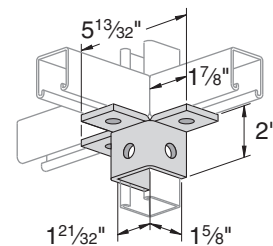
Weight/100 pcs: 217 lbs.

PS 2514 – Eight-Hole Gussetted Double Corner Connector

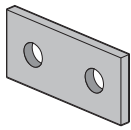


Weight/100 pcs: 315 lbs.

PS 668 – Six-Hole Triple Wing Connector

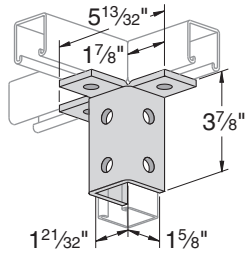


Weight/100 pcs: 113 lbs.



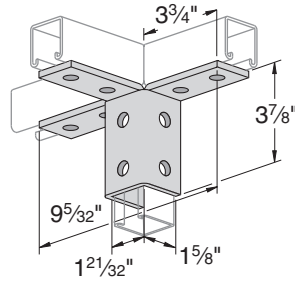
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish

PS 670 – Nine-Hole Triple Wing Connector



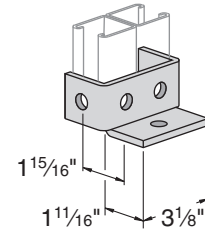
Weight/100 pcs: 177 lbs.

PS 669 – Twelve-Hole Triple Wing Connector



Weight/100 pcs: 230 lbs.

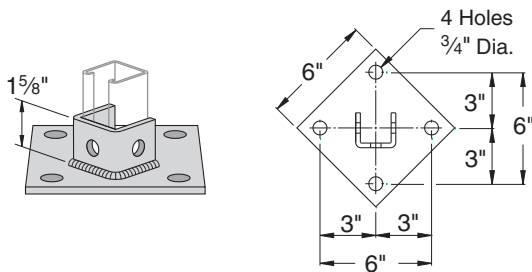
PS 3041 – Double-Column Post Base



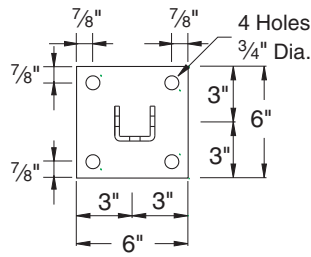
Use With: PS 100, PS 200 2T3, and PS 210 2T3.

Weight/100 pcs: 116 lbs

PS 3013, PS 3013 SQ – Post Base



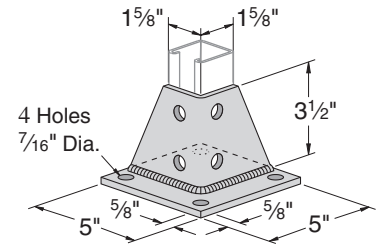
(PS 3013)



(PS 3013 SQ)

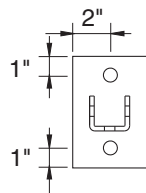
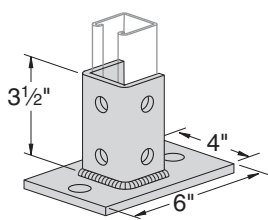
Weight/100 pcs: 307 lbs.

PS 3040 – Post Base

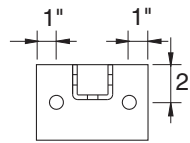


Weight/100 pcs: 297 lbs.

PS 3025, PS 3025 FL – Post Base



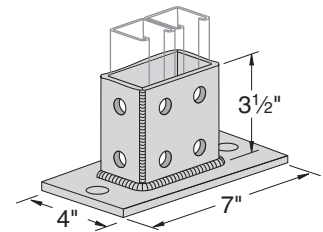
(PS 3025)



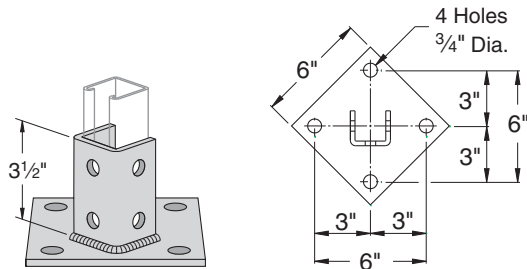
(PS 3025 FL)

Weight/100 pcs: 358 lbs.

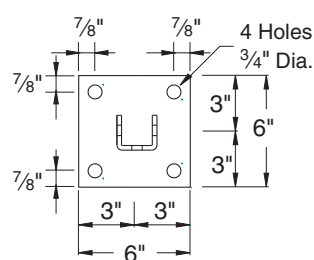
PS 2064 – Double-Column Post Base



PS 3033, PS 3033 SQ – Post Base

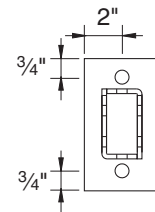


(PS 3033)



(PS 3033 SQ)

Weight/100 pcs: 373 lbs.



Use With: PS 100, PS 200 2T2, PS 200 2T3, PS 200 2T4 and PS 200 2T5

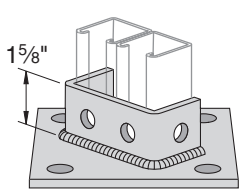
Weight/100 pcs: 311 lbs.

FITTINGS

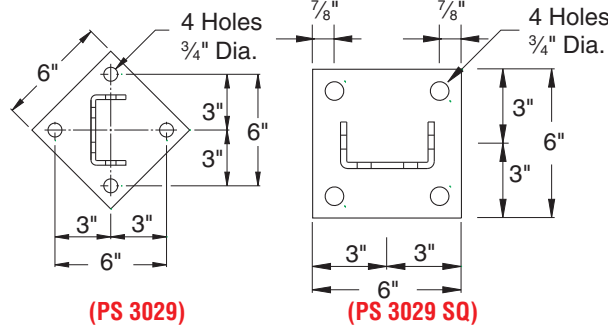
Finish: Painted Green or Electro-galvanized Order By: No., Size and Finish



PS 3029 – Double-Column Post Base

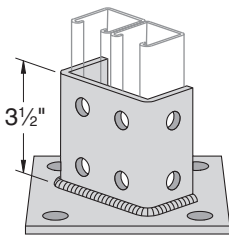


Use With: PS 100, PS 200 2T3, PS 210 2T3

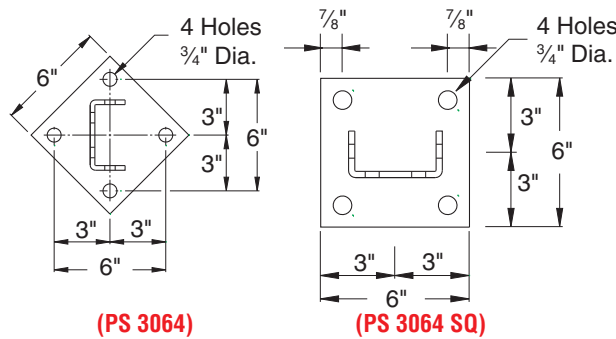


Weight/100 pcs: 325 lbs.

PS 3064 – Double-Column Post Base

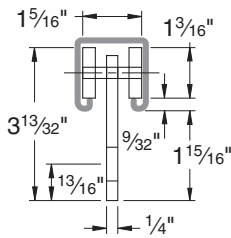
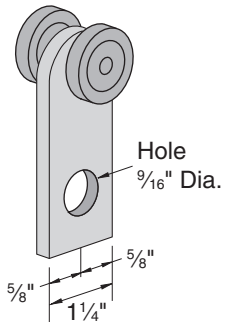


Use With: PS 100, PS 200 2T2, PS 200 2T3, PS 200 2T4 and PS 200 2T5



Weight/100 pcs: 408 lbs.

PS 2521 – Two-Wheel Trolley



Material: Carbon Steel Wheels have stainless steel ball bearings

Finish: Electro-Galvanized

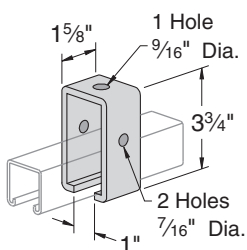
Use With: PS 200

Load Rating: 300 lbs.

| FPM | RPM | Design Load In PS 200 Lbs |
|-----|-----|---------------------------|
| 180 | 600 | 150 |
| 90 | 300 | 225 |
| 30 | 100 | 437 |

Weight/100 pcs: 46 lbs.

PS 2528 – Trolley Beam Standard Support

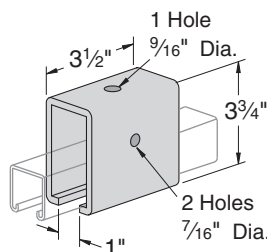


Use With: PS 200, PS 210

Load Rating: 600 lbs.

Weight/100 pcs: 102 lbs.

PS 2528 1 – Trolley Beam Heavy Support and Track Joiner

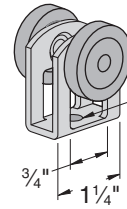


Use With: PS 200, PS 210

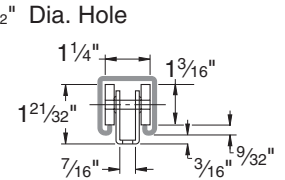
Load Rating: 2,500 lbs.

Weight/100 pcs: 220 lbs.

PS 2524 – Two-Bearing Light Duty Trolley

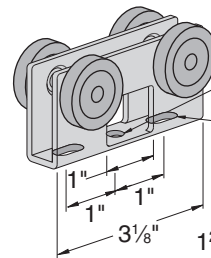


Load Rating: 50 lbs.

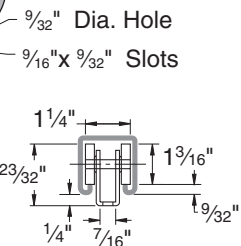


Weight/100 pcs: 21 lbs.

PS 2525 – Four-Bearing Light Duty Trolley

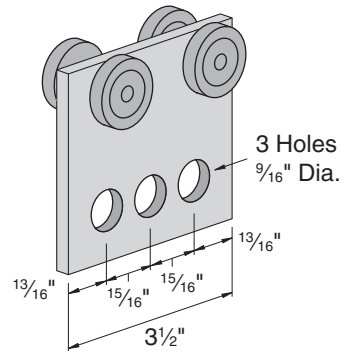


Load Rating: 100 lbs.



Weight/100 pcs: 55 lbs.

PS 2522 – Four-Wheel Trolley



Material: Carbon Steel Wheels have stainless steel ball bearings

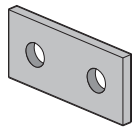
Finish: Electro-Galvanized

Use With: PS 200

Load Rating: 600 lbs.

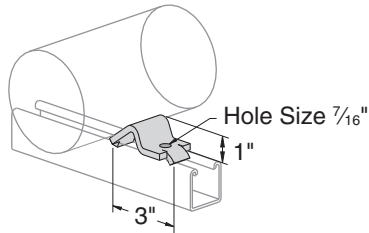
| FPM | RPM | Design Load In PS 200 Lbs |
|-----|-----|---------------------------|
| 180 | 600 | 300 |
| 90 | 300 | 450 |
| 30 | 100 | 600 |

Weight/100 pcs: 110 lbs.



Finish: Painted Green, or Electro-galvanized Order By: No., Size and Finish

PS 626 - Pipe Stop

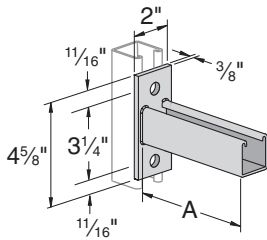


Clamp Requires bolt and channel nut sold separately.

Note: For use with 2" to 8" Pipe

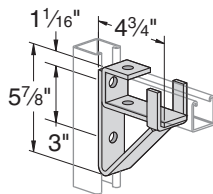
Weight/100 pcs: 40 lbs.

PS 651 - Reversible Channel Bracket



| A Size | Uniform Load* | Wt./100 pcs |
|----------------------------|---------------|-------------|
| 6" | 1,200 | 185 |
| 12" | 600 | 293 |
| 18" | 400 | 401 |
| 24" | 300 | 509 |
| *Mounted on 12 Ga. Channel | | |

PS 708 - Single Channel Bracket Support



Use With: PS 200,
PS 210,
PS 500 2T3

Design Moment on Upright Channel:

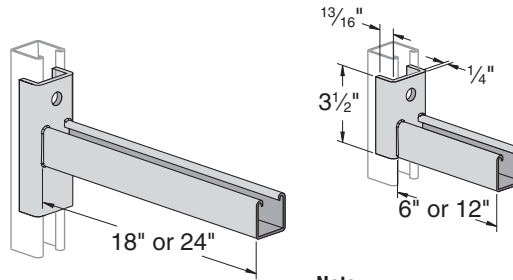
- 16 ga. channel 3,200 in.-lbs.,
- 14 ga. channel 4,400 in.-lbs.
- 12 ga. channel 5,100 in.-lbs.

Note:

Moment is for fitting only.
Channel may determine overall capacity.

Weight/100 pcs: 235 lbs.

PS 661 T1, PS 661 T2 - Wrap-Around Channel Bracket

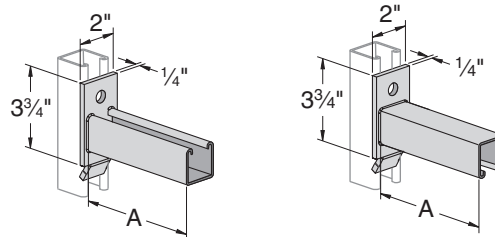


| Size | Uniform Load* | Wt./100 pcs |
|----------------------------|---------------|-------------|
| 6" | 1,600 | 191 |
| 12" | 800 | 292 |
| 18" | 600 | 436 |
| 24" | 450 | 536 |
| *Mounted on 12 Ga. Channel | | |

Note:

PS 661 T1 (Slot up) illustrated
PS 661 T2 (Slot down) not shown

PS 808 T1, PS 808 T2 - Interlocking Channel Bracket

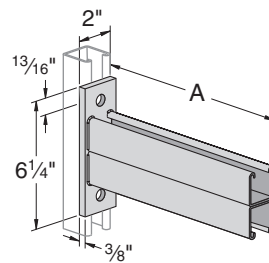


(PS 808 T1 - Slot Up)

(PS 808 T2 - Slot Down)

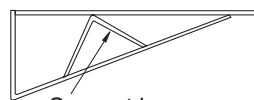
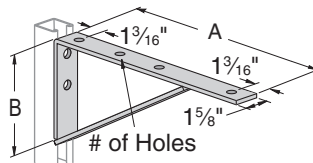
| A Size | Uniform Load* | Wt./100 pcs |
|----------------------------|---------------|-------------|
| 6" | 1,200 | 161 |
| 12" | 600 | 261 |
| 18" | 400 | 361 |
| 24" | 300 | 461 |
| *Mounted on 12 Ga. Channel | | |

PS 809 - Double Channel Bracket



| A Size | Uniform Load* | Wt./100 pcs |
|----------------------------|---------------|-------------|
| 12" | 2,000 | 502 |
| 18" | 1,300 | 692 |
| 24" | 1,000 | 882 |
| 30" | 800 | 1,072 |
| 36" | 650 | 1,262 |
| *Mounted on 12 Ga. Channel | | |

PS 732 - Shelf Bracket



Support brace on 18" and 20" only.

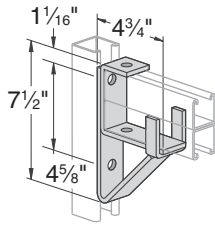
| Size | A | B | # of Holes | Uniform Load* | Wt./100 pcs |
|----------------------------|---------|----|------------|---------------|-------------|
| 8" | 8 1/2" | 4" | 2 | 800 | 168 |
| 10" | 10 1/2" | | 3 | | 202 |
| 12" | 12 1/2" | 6" | 4 | 900 | 258 |
| 14" | 14 1/2" | | 4 | | 292 |
| 16" | 16 1/2" | | 4 | | 1,200 |
| 18" | 18 1/2" | | 4 | 416 | |
| 20" | 20 1/2" | | 4 | 1,000 | |
| *Mounted on 12 ga. channel | | | | | |

BRACKETS



Finish: Painted Green, or Electro-galvanized Order By: No., Size and Finish

PS 3164 – Double Channel Bracket Support



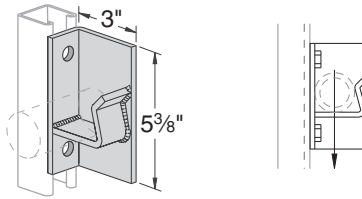
Use With: PS 200 2T3,
PS 210 2T3

Design Moment on Upright Channel:

- 16 ga. channel 6,500 in.-lbs.
- 14 ga. channel 9,100 in.-lbs.
- 12 ga. channel 13,000 in.-lbs.

Note:
Moment is for fitting only.
Channel may determine overall capacity.
Weight/100 pcs: 273 lbs.

PS 825 R or L – Single Pipe Axle Support



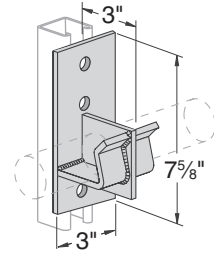
Right Hand Illustrated

Load Rating: 2,000 lbs.

Note:
Specify R (Right) or L (Left) when ordering.

Weight/100 pcs.: 220 lbs.

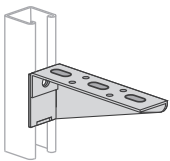
PS 826 – Double Pipe Axle Support



Load Rating: 4,000 lbs.

Weight/100 pcs.: 310 lbs.

PS 838 R or L – Shelf Bracket



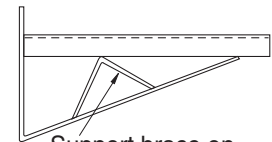
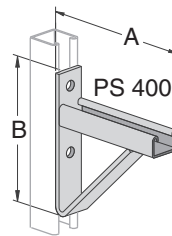
| A Size | Stamped Ident. No. | B | Wt./100 pcs |
|--------|--------------------|----------|-------------|
| 6" | 121892 | 1 15/16" | 58 |
| 8" | 121893 | 2 7/16" | 83 |
| 10" | 121894 | 2 15/16" | 114 |
| 12" | 121895 | 3 7/16" | 49 |
| 14" | 121896 | 3 15/16" | 174 |
| 16" | 121897 | 4 7/16" | 225 |
| 18" | 121898 | 4 15/16" | 255 |
| 20" | 121899 | 5 7/16" | 295 |
| 22" | 121900 | 5 15/16" | 361 |
| 24" | 121901 | 6 7/16" | 396 |
| 26" | 121902 | 6 15/16" | 456 |
| 28" | 121903 | 7 7/16" | 479 |
| 30" | 121904 | 7 15/16" | 544 |

Stock Thickness: .105

Note: Specify R (Right) or L (Left) when ordering.
Right Hand Illustrated

Uniform Load Rating:
275 Lbs. when mounted on 12 ga. channel.

PS 3282 – Cable Tray Strut Bracket



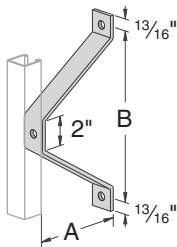
Support brace on 24", 30" and 36" only.

Note:
PS 400 channel welded to 1/4" stock

| A | B | Uniform Load* | Wt./100 pcs |
|-----|---------|---------------|-------------|
| 12" | 8 3/4" | 1,900 | 388 |
| 18" | | 1,000 | 506 |
| 24" | | | 763 |
| 30" | 11 1/4" | 900 | 1,012 |
| 36" | | 800 | 1,083 |

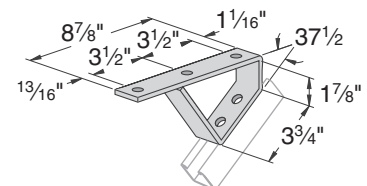
*Mounted on 12 ga. channel.

PS 2404 thru PS 2408 – Wall Ladder Bracket

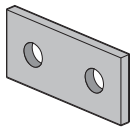


| Part No. | A | B | Wt./100 pcs |
|----------|---------|-----|-------------|
| PS 2404 | 2 3/8" | 6" | 113 |
| PS 2405 | 4 3/8" | 8" | 164 |
| PS 2406 | 6 3/8" | 10" | 216 |
| PS 2407 | 8 3/8" | 12" | 267 |
| PS 2408 | 10 3/8" | 14" | 318 |

PS 2422 – 37 1/2 Degree Stair Tread Support

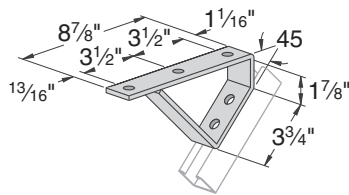


Weight/100 pcs: 213 lbs.



Metal Channel
Fasteners
Fittings
Pipe & Conduit Clamps
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

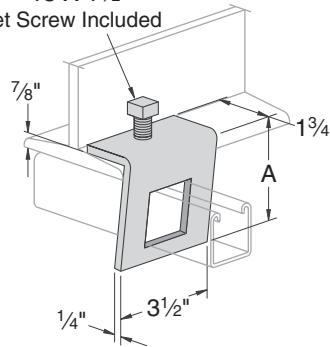
PS 2421 – 45° Degree Stair Tread Support



Weight/100 pcs: 220 lbs.

PS 855 – Angular "I" Beam Clamp

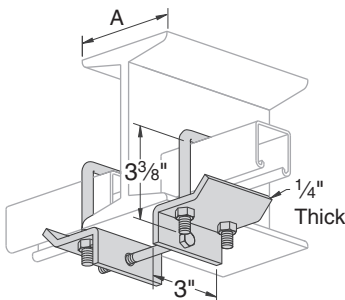
1/2" - 13 X 1 1/2"
Set Screw Included



| Part No. | Use With | A | Load Rating | Wt./100 pcs. |
|----------|----------------|--------|-------------|--------------|
| PS 855-1 | PS 200, PS 210 | 3 1/2" | 500 | 107 |
| PS 855-2 | PS 500 | | | 98 |

Use in pairs only

PS 2657 – Double U Beam Clamp



Specify 6" or 12" max. flange width
(Example: PS 2657 T1-6")

T1 Use with:

PS 200, PS 210, PS 300,
PS 400, PS 500, PS 520

T2 Use with:

PS 100, PS 150, PS 200 2T3

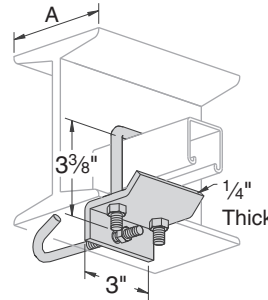
T3 Use with:

PS 150 2T3, PS 100 2T3

| Part No. | "A" Beam Flange Width |
|---------------|-----------------------|
| PS 2657 T1-6 | 4" - 6" |
| PS 2657 T1-9 | 6" - 9" |
| PS 2657 T1-12 | 9" - 12" |
| PS 2657 T1-15 | 12" - 15" |
| PS 2657 T1-18 | 15" - 18" |
| PS 2657 T2-6 | 4" - 6" |
| PS 2657 T2-9 | 6" - 9" |
| PS 2657 T2-12 | 9" - 12" |
| PS 2657 T2-15 | 12" - 15" |
| PS 2657 T2-18 | 15" - 18" |
| PS 2657 T3-6 | 4" - 6" |
| PS 2657 T3-9 | 6" - 9" |
| PS 2657 T3-12 | 9" - 12" |
| PS 2657 T3-15 | 12" - 15" |
| PS 2657 T3-18 | 15" - 18" |

Weight/100 pcs: 280 lbs.

PS 2656 – U Bolt Beam Clamp With Hook



Specify 6" or 12" max. flange width
(Example: PS 2656 T1-6")

T1 Use with:

PS 200, PS 210, PS 300,
PS 400, PS 500, PS 520

T2 Use with:

PS 100, PS 150, PS 200 2T3

T3 Use with:

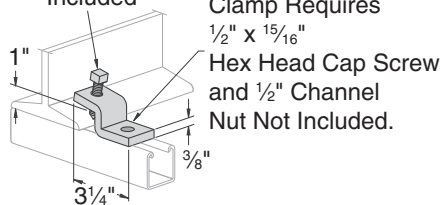
PS 150 2T3, PS 100 2T3

| Part No. | "A" Beam Flange Width |
|---------------|-----------------------|
| PS 2656 T1-6 | 4" - 6" |
| PS 2656 T1-9 | 6" - 9" |
| PS 2656 T1-12 | 9" - 12" |
| PS 2656 T1-15 | 12" - 15" |
| PS 2656 T1-18 | 15" - 18" |
| PS 2656 T2-6 | 4" - 6" |
| PS 2656 T2-9 | 6" - 9" |
| PS 2656 T2-12 | 9" - 12" |
| PS 2656 T2-15 | 12" - 15" |
| PS 2656 T2-18 | 15" - 18" |
| PS 2656 T3-6 | 4" - 6" |
| PS 2656 T3-9 | 6" - 9" |
| PS 2656 T3-12 | 9" - 12" |
| PS 2656 T3-15 | 12" - 15" |
| PS 2656 T3-18 | 15" - 18" |

Weight/100 pcs: 143 lbs.

PS 685 – Beam Clamp

1/2" - 13 X 1 1/2"
Set Screw
Included



Clamp Requires
1/2" x 1 5/16"
Hex Head Cap Screw
and 1/2" Channel
Nut Not Included.

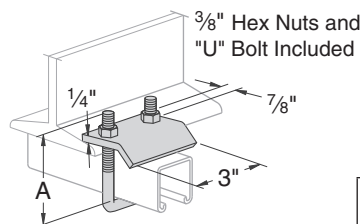
Stock Thickness: 3/8"

Load Rating: 450 lbs.

Use in pairs only

Weight/100 pcs: 63 lbs.

PS 2651 – Beam Clamp



| Part No. | Use With | A | Load Rating | Wt./100 pcs. |
|------------|----------------------------------------------------|--------|-------------|--------------|
| PS 2651 T1 | PS 200, PS 210 PS 300, PS 400 PS 500, PS 520 | 3 3/8" | 1,000 | 83 |
| PS 2651 T2 | PS 100, PS 150 PS 200 2T3 | 5" | | 92 |
| PS 2651 T3 | PS 150 2T3 PS 100 2T3 | 8 1/4" | | 112 |

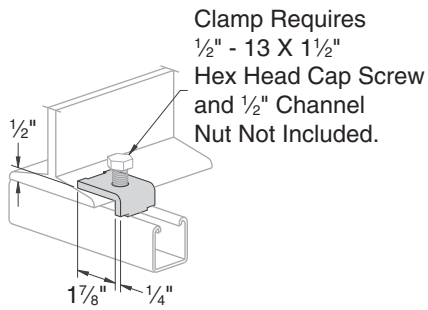
Use in pairs only

BEAM CLAMPS



Finish: Painted Green, or Electro-galvanized **Order By:** No. and Finish **Note:** Use in pairs or with other support

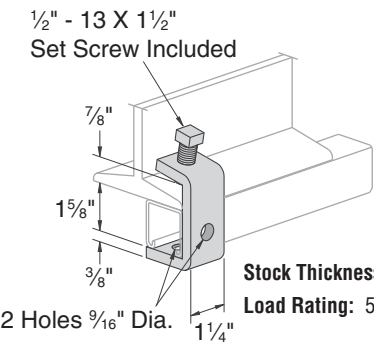
PS 686 – Beam Clamp



Clamp Requires
1/2" - 13 X 1 1/2"
Hex Head Cap Screw
and 1/2" Channel
Nut Not Included.

Load Rating:
Use in pairs only 600 lbs. with 12 ga. channel
500 lbs. with 14 ga. channel
Weight/100 pcs: 26 lbs.

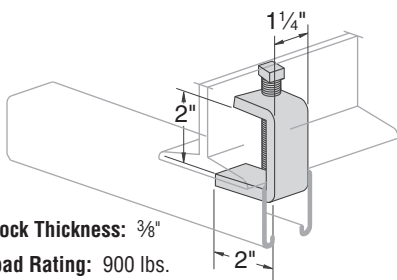
PS 684 – "I" Beam Clamp



1/2" - 13 X 1 1/2"
Set Screw Included

Stock Thickness: 3/8"
Load Rating: 500 lbs.
2 Holes 9/16" Dia.
Weight/100 pcs: 94 lbs.

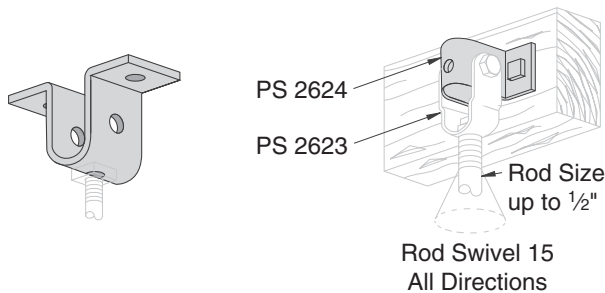
PS 916 – "I" Beam Clamp



Stock Thickness: 3/8"
Load Rating: 900 lbs.
Design loads are per pair
of clamps

Weight/100 pcs: 72 lbs.

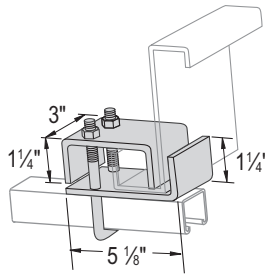
PS 2624 – Wood Beam Hanger



PS 2624
PS 2623
Rod Size
up to 1/2"
Rod Swivel 15
All Directions

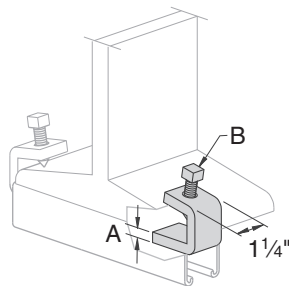
Weight/100 pcs: 22 lbs.

PS 2653 – Purlin Clamp



| Part No. | Use With | Load Rating | Wt./100 pcs. |
|------------|----------------------------|-------------|--------------|
| PS 2653 T1 | PS 200, PS 210, PS 300 | 1,200 | 175 |
| PS 2653 T2 | PS 100, PS 150, PS 200 2T3 | | 179 |
| PS 2653 T3 | PS 100 2T3 | | 179 |

PS 907, PS 998 – "I" Beam Clamp

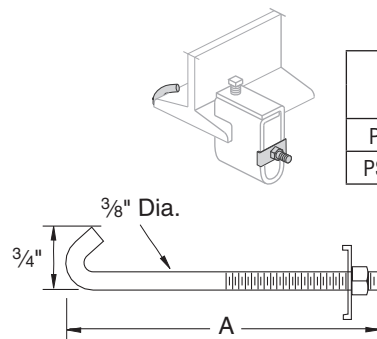


| Part No. | Stock Thickness | Set Screw | Load Rating lbs. | Wt./100 pcs. |
|----------|-----------------|-----------|------------------|--------------|
| PS 907 | 1/4" | 3/8" | 450 | 26 |
| PS 998 | 3/8" | 1/2" | 1,000 | 64 |

Load rating is based on 2 clamps
Use in pairs only

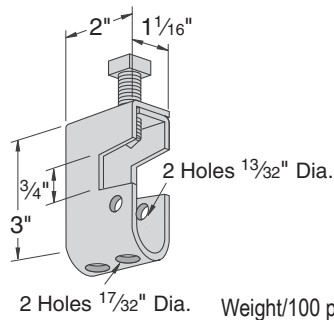
Maximum flange thickness is 1"

PS 736 – Hook Rod Assembly



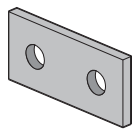
| Part No. | Flange Width | | A Size | Wt./100 pcs |
|------------|--------------|-----|---------|-------------|
| | Max | Min | | |
| PS 736 J6 | 7" | 3" | 8 5/8" | 24 |
| PS 736 J10 | 11" | 7" | 12 5/8" | 33 |

PS 2622 – Beam Clamp



Assembly including PS 736 also available.
Order PS 2622/J6 or PS 2622/J10
Load Rating: 300 lbs.
Note:
Adaptable for 1/4", 3/8" & 1/2" rod with PS 3201.

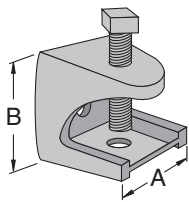
Weight/100 pcs: 41 lbs.



Finish: Painted Green, or Electro-galvanized **Order By:** No. and Finish

Note: Use in pairs or with other support

PS 85 - Rod or Insulator Support

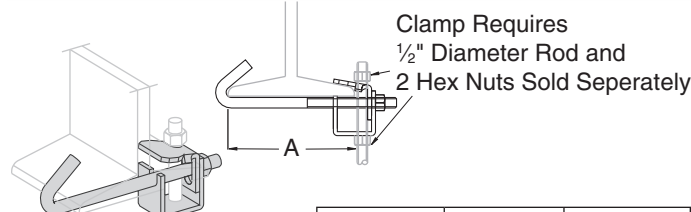


| Rod Size | A | B | Load Ratings | Wt./100 pcs |
|----------|--------|--------|--------------|-------------|
| 1/4" | 1 1/8" | 1 1/4" | 150 | 23 |
| 3/8" | 2" | 2" | 350 | 95 |
| 1/2" | 2 5/8" | 2 1/4" | 400 | 195 |

Flange Thickness: 7/8" Maximum

Material: Malleable Iron

PS 2626 - Beam Clamp

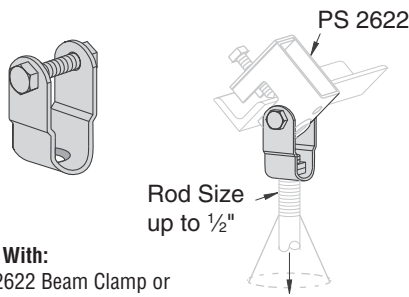


| Part No. | "A" Range | Wt./100 pcs |
|------------|--------------|-------------|
| PS 2626 6 | 2 1/2" - 6" | 125 |
| PS 2626 9 | 5 1/2" - 9" | 140 |
| PS 2626 12 | 8 1/2" - 12" | 171 |

Finish: Plain, painted green or electro-galvanized

Load Rating: 500 lbs.

PS 2623 - Swivel Adaptor

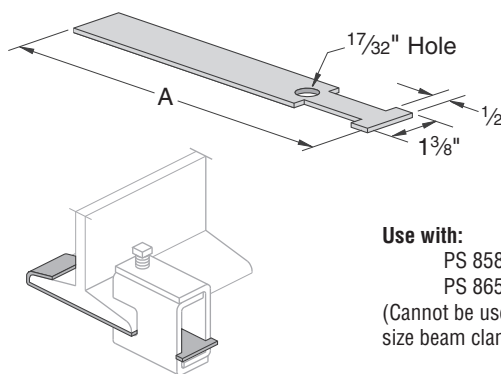


Use With:
PS 2622 Beam Clamp or
PS 2624 Wood Beam Hanger

Rod Swivel 15 All Directions

Load Rating: 300 lbs.

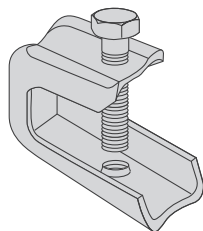
PS 871 - Safety Anchor Strap



| "A" Length | Wt./100 pcs |
|------------|-------------|
| 9" | 33 |
| 12" | 45 |
| 15" | 57 |

Use with:
PS 858,
PS 865
(Cannot be used with 5/8" rod size beam clamps and larger)

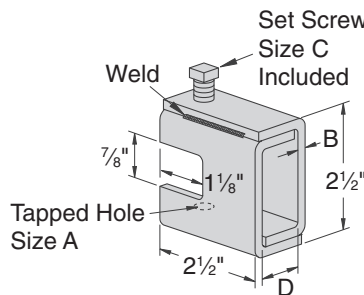
PS 135X - Light Duty Beam Clamp



Material: Steel
Use With: 1/4" rod
Load Rating: 75 lbs.

Weight/100 pcs: 14 lbs.

PS 858 - Heavy Duty Beam Clamp

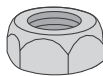


| Part No. | "A" Rod Size | B | C | D | Load Ratings lbs. | Wt./100 pcs |
|-------------|--------------|-------|---------------|---------|-------------------|-------------|
| PS 858 1/4 | 1/4" - 20 | 1/8" | 3/8" x 1 1/2" | 7/8" | 650 | 67 |
| PS 858 5/16 | 5/16" - 18 | 1/8" | 3/8" x 1 1/2" | 7/8" | 650 | 67 |
| PS 858 3/8 | 3/8" - 16 | 3/16" | 1/2" x 1 1/2" | 1 5/16" | 1,100 | 100 |
| PS 858 1/2 | 1/2" - 13 | 1/4" | 1/2" x 1 1/2" | 1 5/16" | 1,600 | 130 |
| PS 858 5/8 | 5/8" - 11 | 5/16" | 5/8" x 1 1/2" | 1 5/16" | 2,400 | 160 |
| PS 858 3/4 | 3/4" - 10 | 5/16" | 5/8" x 1 1/2" | 1 5/16" | 2,400 | 160 |

Weld is not continuous it is either 1 1/4" - 1 3/4" long or 2 spot welds. All welds are on the top and bottom.

For beams under 7/8" thick flange.

PS 3201 - Swivel Nut

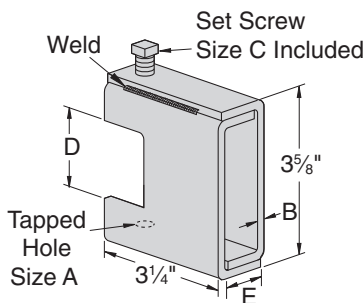


Use With:
PS 2622 Beam Clamp

| Rod Size | Wt./100 pcs |
|----------|-------------|
| 1/4" | 4 |
| 3/8" | 4 |
| 1/2" | 3 |

Weight/100 pcs: 31 lbs.

PS 865 - Wide Throat Heavy Duty Beam Clamp



| Part No. | Rod Size | B | C | D | E | Load Ratings lbs. | Wt./100 pcs |
|------------|----------|-------|------|---------|---------|-------------------|-------------|
| PS 865 3/8 | 3/8" | 3/16" | 1/2" | | 29/32" | 1,100 | 151 |
| PS 865 1/2 | 1/2" | 1/4" | 1/2" | 1 1/16" | 1 5/16" | 1,600 | 195 |
| PS 865 5/8 | 5/8" | 5/16" | 5/8" | | 1 5/16" | 2,400 | 225 |

For beams between 3/4" (19) to 1 5/8" (41) thick flanges.

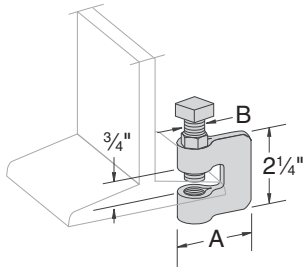
Weld is not continuous it is either 1 1/4" - 1 3/4" long or 2 spot welds. All welds are on the top and bottom.

BEAM CLAMPS

Finish: Painted Green, or Electro-galvanized **Order By:** No. and Finish **Note:** Use in pairs or with other support



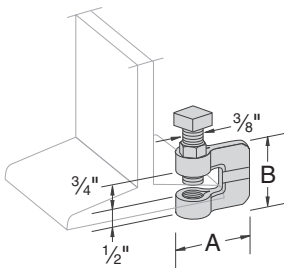
PS 95 - "C" Clamp



| Rod Size | A | B | Load Rating | Wt./100 pcs |
|----------|---------|------|-------------|-------------|
| 3/8" | 2 5/16" | 3/8" | 330 | 35 |
| 1/2" | 2 1/4" | 1/2" | 380 | 41 |
| 5/8" | 2 3/8" | 5/8" | 450 | 67 |
| 3/4" | 2 1/4" | 1/2" | 500 | 72 |

Material: Steel

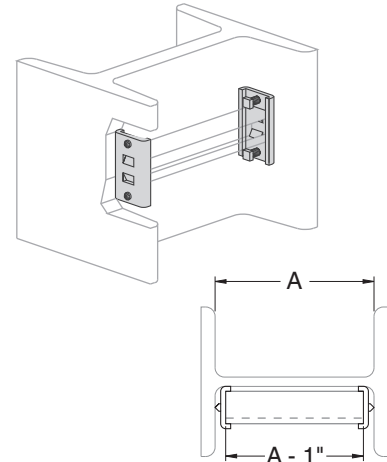
PS 86 - "C" Clamp



| Rod Size | A | B | Load Rating | Wt./100 pcs |
|----------|----------|--------|-------------|-------------|
| 3/8" | 1 11/16" | 1 3/4" | 400 | 38 |
| 1/2" | 1 23/32" | | | 52 |
| 5/8" | 1 15/16" | 2" | 450 | 68 |
| 3/4" | 2 1/32" | | | 128 |

Material: Malleable Iron, Steel Set Screw

PS 2654 & PS 2654A - Column Attachment



PS 2654 Use with PS 200

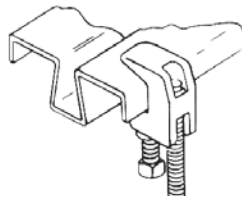
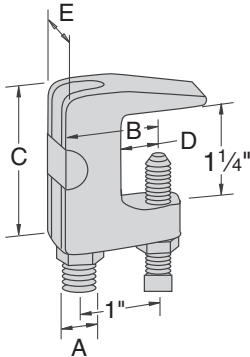
PS 2654A Use with PS 500

Slip Rating: 800 lbs.

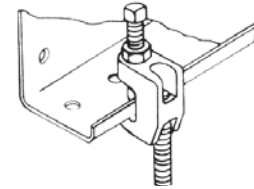
Note: Column attachment can only be used in pairs.

Weight/100 pcs: 41 lbs.

PS 93 - Universal "C" Clamp



At least one full thread must be exposed

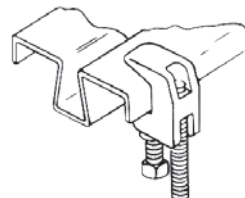
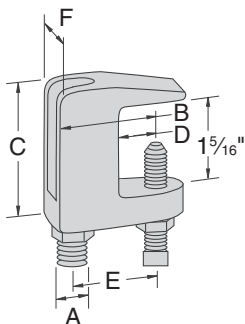


Material: Malleable Iron, Steel Set Screw

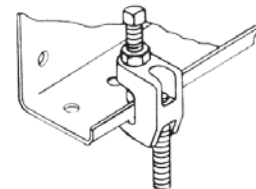
| Part No. | Rod Size A | DIMENSIONS (Inches) | | | | Max. Pipe Size | Max. Load (Lbs.) | Wt/100 pcs |
|-----------|------------|---------------------|---|-----|-----|----------------|------------------|------------|
| | | B | C | D | E | | | |
| PS 93 3/8 | 3/8 | 1 5/8 | 2 | 3/4 | 7/8 | 2 | 400 | 28 |
| PS 93 1/2 | 1/2 | 1 5/8 | 2 | 3/4 | 7/8 | 3 1/2 | 500 | 34 |

• Maximum temperature of 450° F

PS 94 - Wide Throat Top Beam "C" Clamp



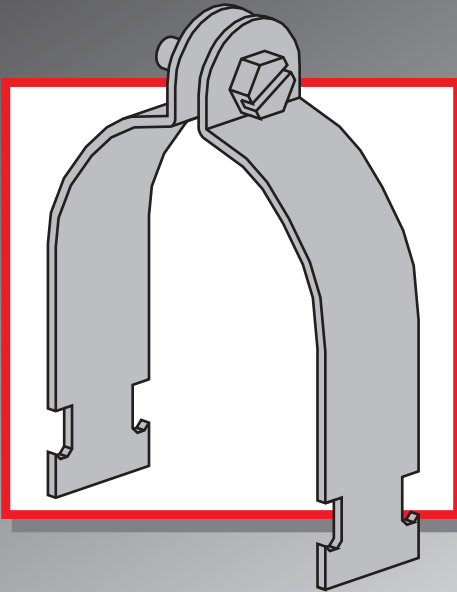
At least one full thread must be exposed



Material: Malleable Iron, Steel Set Screw

| Part No. | Rod Size A | DIMENSIONS (Inches) | | | | | Max Pipe Size | Max. Load (Lbs.) | Wt/100 pcs |
|-----------|------------|---------------------|-------|-----|-------|-------|---------------|------------------|------------|
| | | B | C | D | E | F | | | |
| PS 94 5/8 | 5/8 | 1 3/4 | 2 1/4 | 3/4 | 1 1/4 | 1 | 5 | 600 | 66 |
| PS 94 3/4 | 3/4 | 1 7/8 | 2 3/8 | 3/4 | 1 3/8 | 1 1/4 | 8 | 800 | 83 |

• Maximum temperature of 450° F



PIPE & CONDUIT CLAMPS

Power-Strut pipe, conduit and O.D. tubing clamps are formed in punch press dies in a wide selection of sizes to meet every requirement.

MATERIAL:

Power-Strut pipe, conduit and O.D. tubing clamps are made on punch press dies from hot rolled, pickled and oiled steel which conforms to the ASTM A-1008, A-1011 SS, A-575 and A-576 standards. Select sizes of O.D. tubing clamps are available in stainless steel or aluminum.

STANDARD FINISH:

All steel clamps are electro-galvanized. Select sizes of O.D. tubing clamps are available in copper plated finish. PVC coatings are available upon special request.

ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number.
See pages 8-9 for finish abbreviations and an example.

RECOMMENDED BOLT TORQUE:

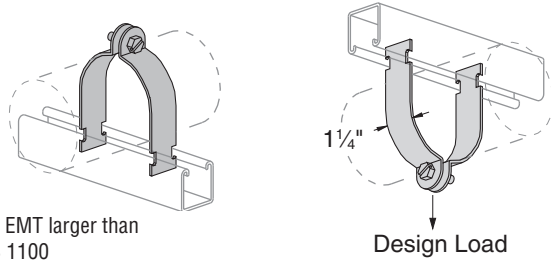
| Bolt Size | 1/4"-20 | 5/16"-18 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 |
|-----------------------|---------|----------|---------|---------|---------|---------|
| Rec. Torque Ft/Lbs | 6 | 11 | 19 | 50 | 100 | 125 |
| Max. Torque Ft/Lbs | 7 | 15 | 25 | 70 | 125 | 135 |

PIPE & CONDUIT CLAMPS

Finish: Electro-galvanized Order By: No., and Finish



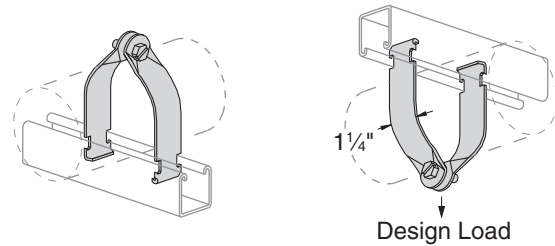
PS 1000 – EMT Conduit Clamp



Note: For EMT larger than 2" use PS 1100

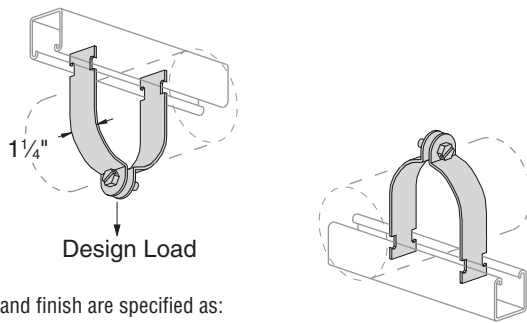
| EMT Size | Stock Thickness | Hanging Load Rating/lbs. | Wt./100 pcs |
|----------|-----------------|--------------------------|-------------|
| 1/2" | .060 | 400 | 11 |
| 3/4" | | | 12 |
| 1" | .075 | 600 | 15 |
| 1 1/4" | | | 18 |
| 1 1/2" | .105 | 800 | 29 |
| 2" | | | 33 |

PS 1300 – Universal Clamp for EMT, IMC & GRC



| Nominal Size | Fits O.D. | Stock Thickness | Hanging Load Rating/lbs. | Wt./100 pcs |
|--------------|-------------|-----------------|--------------------------|-------------|
| 1/2" | 0.706-0.840 | .060 | 250 | 10 |
| 3/4" | 0.922-1.050 | .060 | 400 | 11 |
| 1" | 1.163-1.315 | | | 12 |
| 1 1/4" | 1.510-1.660 | .075 | 400 | 18 |
| 1 1/2" | 1.740-1.900 | .075 | 500 | 20 |
| 2" | 2.197-2.375 | | | 22 |

PS 1100, PS 1116, PS 1117 – Standard Pipe Clamp (GRC, IMC and SCH 40/SCH 80 steel pipe)

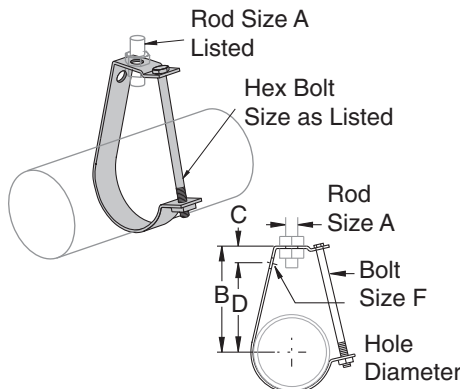


Material and finish are specified as:

- 1100 AL Alum. clamp, EG fasteners
- 1100 HG Clamp, Stainless Steel fasteners
- 1116 Alum. clamp and fasteners
- 1117 Alum. clamp, Stainless Steel fasteners
- 1100SS Stainless Steel clamp and fasteners

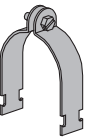
| Pipe Size | Stock Thickness | Hanging Load Rating/lbs. | Wt./100 pcs |
|-----------|-----------------|--------------------------|-------------|
| 3/8" | .060 | 400 | 10 |
| 1/2" | | | 11 |
| 3/4" | .075 | 600 | 15 |
| 1" | | | 17 |
| 1 1/4" | | | 19 |
| 1 1/2" | .105 | 800 | 29 |
| 2" | | | 34 |
| 2 1/2" | | | 40 |
| 3" | | | 47 |
| 3 1/2" | .125 | 1,000 | 62 |
| 4" | | | 67 |
| 5" | | | 80 |
| 6" | | | 102 |
| 8" | | | 130 |
| 10" | .135 | 1,000 | 143 |
| 12" | | | 174 |

PS 67 – "J" Pipe or Conduit Hanger

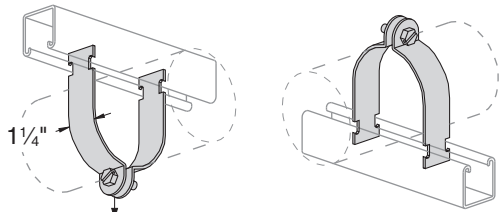


Notes:
 Hanger Rod Suspended
 Plastic Coated hanger is available ("N" Suffix).
 Please contact factory for additional information.
 Maximum operating temperature is 300°F
 Minimum safety factor of five (5) on ultimate load.

| Conduit Size | A Rod Size | B | C | D | E | F | Load Rating/lbs. | Wt./100 pcs |
|--------------|------------|-------|-------|-------|--------|-------------|------------------|-------------|
| 1/2" | 3/8 | 2 5/8 | 1 | 2 | 1 3/32 | 1/4 x 2 1/4 | 400 | 20 |
| 3/4" | | 2 7/8 | | 2 1/4 | | | | 21 |
| 1" | | 3 | | 2 3/8 | | | | 24 |
| 1 1/4" | | 3 1/4 | | 2 1/2 | | | | 27 |
| 1 1/2" | 1/2 | 3 1/2 | 1 1/8 | 2 5/8 | 9/16 | 1/4 x 3 | 800 | 29 |
| 2" | | 3 3/4 | | 2 5/8 | | 1/4 x 3 1/2 | | 33 |
| 2 1/2" | | 4 3/8 | | 3 5/8 | | 3/8 x 4 1/2 | | 71 |
| 3" | | 4 7/8 | | 4 | | 3/8 x 5 | | 78 |
| 3 1/2" | 5/8 | 5 1/8 | 1 1/8 | 4 1/4 | 9/16 | 3/8 x 6 | 1,200 | 85 |
| 4" | | 6 1/8 | | 5 1/8 | | 3/8 x 7 1/2 | | 178 |
| 5" | | 6 3/4 | | 5 3/4 | | 3/8 x 8 1/2 | | 199 |
| 6" | | 7 3/4 | | 6 1/2 | | 3/8 x 10 | | 231 |
| 8" | 7 7/8 | 9 1/4 | 1 1/4 | 8 | | | | 449 |



PS 1200 - O.D. Tubing Clamp



Design Load

Please contact factory for sizes & finishes not shown.

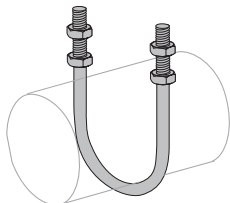
Note: Additional Available Finishes
SS - Stainless Steel
CC - Copper Coated

| O.D. Size | Stock Thickness | Hanging Load Rating/lbs. | Wt./100 pcs |
|-----------|-----------------|--------------------------|-------------|
| 1/4" | .060 | 400 | 8 |
| 3/8" | | | 8 |
| 1/2" | | | 9 |
| 5/8" | | | 10 |
| 3/4" | | | 11 |
| 7/8" | | | 12 |
| 1" | .075 | 600 | 14 |
| 1 1/8" | | | 15 |
| 1 1/4" | | | 16 |
| 1 3/8" | | | 17 |
| 1 1/2" | | | 18 |
| 1 5/8" | | | 19 |
| 1 3/4" | .105 | 800 | 29 |
| 1 7/8" | | | 28 |
| 2" | | | 31 |
| 2 1/8" | | | 32 |
| 2 1/4" | | | 33 |
| 2 3/8" | | | 34 |
| 2 1/2" | | | 35 |
| 2 5/8" | | | 37 |
| 2 3/4" | | | 38 |
| 2 7/8" | | | 40 |
| 3" | 41 | | |

| O.D. Size | Stock Thickness | Hanging Load Rating/lbs. | Wt./100 pcs |
|-----------|-----------------|--------------------------|-------------|
| 3 1/8" | .105 | 800 | 43 |
| 3 1/4" | | | 45 |
| 3 3/8" | | | 46 |
| 3 1/2" | | | 47 |
| 3 5/8" | | | 56 |
| 3 3/4" | | | 58 |
| 3 7/8" | .125 | 1,000 | 60 |
| 4" | | | 62 |
| 4 1/8" | | | 62 |
| 4 1/4" | | | 64 |
| 4 3/8" | | | 66 |
| 4 1/2" | | | 67 |
| 4 5/8" | | | 70 |
| 4 3/4" | | | 72 |
| 4 7/8" | | | 73 |
| 5" | | | 74 |
| 5 1/8" | 76 | | |
| 5 1/4" | 77 | | |
| 5 3/8" | 78 | | |
| 5 1/2" | 79 | | |
| 5 5/8" | .135 | 1,000 | 88 |
| 5 3/4" | | | 90 |
| 5 7/8" | | | 92 |

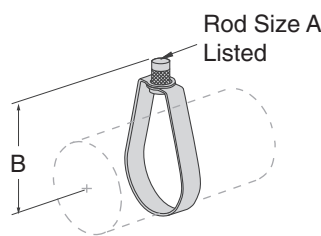
| O.D. Size | Stock Thickness | Hanging Load Rating/lbs. | Wt./100 pcs |
|-----------|-----------------|--------------------------|-------------|
| 6" | .135 | 1,000 | 94 |
| 6 1/8" | | | 96 |
| 6 1/4" | | | 98 |
| 6 3/8" | | | 99 |
| 6 1/2" | | | 100 |
| 6 5/8" | | | 102 |
| 6 3/4" | | | 104 |
| 6 7/8" | | | 106 |
| 7" | | | 108 |
| 7 1/8" | | | 110 |
| 7 1/4" | | | 112 |
| 7 3/8" | | | 114 |
| 7 1/2" | | | 116 |
| 7 5/8" | | | 117 |
| 7 3/4" | | | 119 |
| 7 7/8" | | | 121 |
| 8" | 123 | | |
| 8 1/8" | 125 | | |
| 8 1/4" | 126 | | |
| 8 3/8" | 128 | | |
| 8 1/2" | 129 | | |
| 8 5/8" | 130 | | |

PS 137 - Long Tangent "U" Bolt



| Size | Wt./100 pcs |
|--------|-------------|
| 1/2" | 21 |
| 3/4" | 28 |
| 1" | 29 |
| 1 1/4" | 31 |
| 1 1/2" | 33 |
| 2" | 36 |
| 2 1/2" | 78 |
| 3" | 88 |
| 3 1/2" | 94 |
| 4" | 102 |

PS 69 - E-Z Grip Hanger



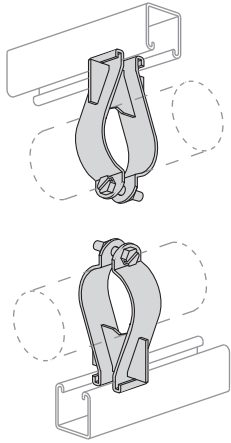
| Size | A Rod Size | B | Load Rating Lbs/650 | Wt./100 pcs | |
|--------|------------|-----------|---------------------|-------------|-----|
| 1/2" | 3/8" | 2 1/4" | 300 | 9 | |
| 3/4" | | 2 5/16" | | 9 | |
| 1" | | 2 7/16" | | 10 | |
| 1 1/4" | | 2 5/8" | | 10 | |
| 1 1/2" | | 2 3/4" | | 10 | |
| 2" | | 3 1/4" | | 11 | |
| 2 1/2" | 4" | 4 3/8" | 525 | 25 | |
| 3" | | | | 27 | |
| 4" | 1/2" | 4 1 1/16" | 600 | 48 | |
| 5" | | 5 5/16" | | 1000 | 53 |
| 6" | | 6 7/16" | | | 100 |
| 7" | | 8" | | | 100 |

PIPE & CONDUIT CLAMPS

Finish: Electro-galvanized Order By: No., and Finish

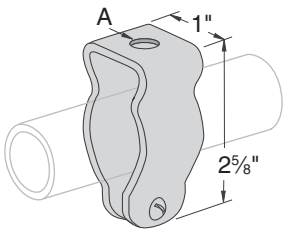


PS 3138 – Parallel Run Pipe Clamp



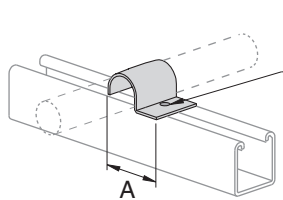
| Pipe Size | Load Rating/lbs. | Wt./100 pcs |
|-----------|------------------|-------------|
| 3/8" | 300 | 27 |
| 1/2" | | 29 |
| 3/4" | | 30 |
| 1" | 400 | 31 |
| 1 1/4" | | 38 |
| 1 1/2" | 500 | 40 |
| 2" | | 47 |
| 2 1/2" | | 66 |
| 3" | | 78 |
| 3 1/2" | | 87 |
| 4" | | 90 |

PS 270 – Conduit Clamp



| Size | A Diameter | Wt./100 pcs |
|--------|------------|-------------|
| 3/8" | 1/4" | 6 |
| 1/2" | | 6 |
| 3/4" | | 8 |
| 1" | | 9 |
| 1 1/4" | | 11 |
| 1 1/2" | | 19 |
| 2" | | 27 |

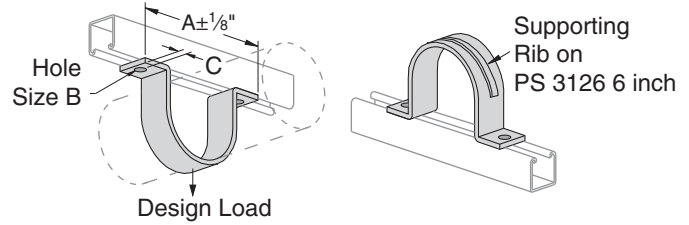
PS 1450 – One-Hole Clamp for O.D. Tubing



Hole Size – 9/32"
1/4" X 3/4" Round Head
Machine Screw
and Channel Nut
Not Included

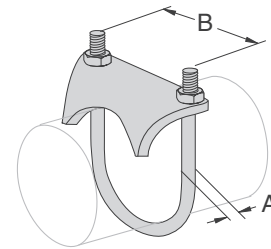
| O.D. Size | A | Thickness Gages | Wt./100 pcs |
|-----------|---------|-----------------|-------------|
| 1/4" | 1 3/16" | 16 | 4 |
| 3/8" | 1 5/16" | | 5 |
| 1/2" | 1 7/16" | | 6 |
| 5/8" | 1 5/8" | 14 | 8 |
| 3/4" | 1 3/4" | | 9 |
| 7/8" | 1 7/8" | | 10 |
| 1" | 2" | | 11 |

PS 3126 – One-Piece Pipe Strap



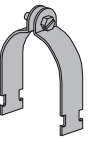
| Pipe Size | A | B | C | Design Load/lbs. | Wt./100 pcs |
|-----------|--------|-------|---------|------------------|-------------|
| 1/2" | 2 7/8" | 9/32" | 7/16" | 500 | 23 |
| 3/4" | 3 1/8" | | | | 26 |
| 1" | 3 3/8" | | | | 31 |
| 1 1/4" | 3 3/4" | | | | 35 |
| 1 1/2" | 3 7/8" | | | | 39 |
| 2" | 5 3/4" | 7/16" | 1 1/16" | 1,000 | 94 |
| 2 1/2" | 6 1/4" | | | | 114 |
| 3" | 6 7/8" | | | | 133 |
| 3 1/2" | 7 3/8" | | | | 152 |
| 4" | 7 7/8" | | | | 176 |
| 5" | 9" | | | | 198 |
| 6" | 10" | 225 | | | |

PS 51 – Right Angle Pipe or Conduit Clamp

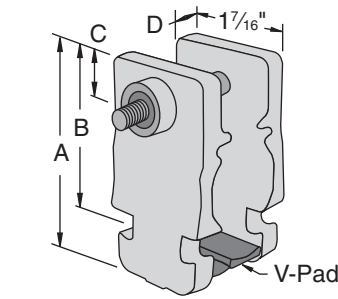


Material: Malleable Iron

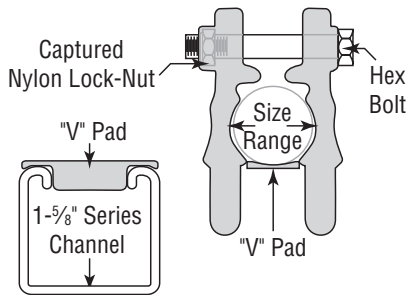
| Size | A Diameter | B | Wt./100 pcs |
|--------|------------|----------|-------------|
| 3/8" | 5/16" | 1 5/16" | 25 |
| 1/2" | | 1 3/16" | 41 |
| 3/4" | | 1 7/16" | 42 |
| 1" | | 1 11/16" | 47 |
| 1 1/4" | | 2" | 54 |
| 1 1/2" | 3/8" | 2 5/16" | 57 |
| 2" | | 2 3/16" | 85 |
| 2 1/2" | | 3 3/8" | 106 |
| 3" | | 4 1/8" | 110 |
| 3 1/2" | | 4 5/8" | 128 |
| 4" | | 5 1/8" | 140 |



PS TP-025 thru PS TP-100 - Cush-A-Grip®



| Part No. | Nominal Pipe Size | Dimensions (In.) | | | | Hex Head Cap Screw & Lock Nut | Wt/100 pcs Lbs |
|-----------|-------------------|------------------|---------|------|------|-------------------------------|----------------|
| | | "A" | "B" | "C" | "D" | | |
| PS TP-025 | 1/4 | 1 15/16 | 1 3/8 | 3/8 | 3/16 | 1/4-20 x 1 1/2" | 4 |
| PS TP-625 | 3/8 | 2 3/8 | 1 5/8 | 7/16 | 1/4 | 1/4-20 x 2" | 6 |
| PS TP-875 | 1/2 | 2 9/16 | 1 13/16 | | 5/16 | | 8 |
| PS TP-100 | 3/4 | 2 11/16 | 1 15/16 | | 5/16 | | 8 |



Includes: Cushion, V-pad, and Hardware.
Materials: Cushion: Thermoplastic elastomer.
Hardware: Stainless Steel with Captured Nylon Locknut
Temperature Rating: -40°F to +275°F

Tube Sizes

| Part No. | O.D. Tube Sizes | | | Diameters | PullOut Load/Lbs | Slip Load/Lbs |
|-----------|-----------------|-------|-------|-------------|------------------|---------------|
| PS TP-025 | 1/4 | 3/8 | 1/2 | 0.25 - 0.54 | 500 | 40 |
| PS TP-625 | 5/8 | 3/4 | 7/8 | 0.62 - 0.87 | | |
| PS TP-875 | 7/8 | 1 | 1 1/8 | 0.87 - 1.12 | | |
| PS TP-100 | 1 | 1 1/8 | 1 1/4 | 1.00 - 1.31 | | |

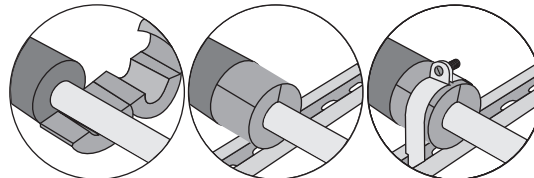
Pipe Sizes

| Part No. | Nominal Pipe Sizes | | Diameters | PullOut Load/Lbs | Slip Load/Lbs |
|-----------|--------------------|-----|-------------|------------------|---------------|
| PS TP-025 | 1/4 | | 0.25 - 0.54 | 500 | 40 |
| PS TP-625 | 3/8 | 1/2 | 0.62 - 0.87 | | |
| PS TP-875 | 3/4 | | 0.87 - 1.12 | | |
| PS TP-100 | 3/4 | 1 | 1.00 - 1.31 | | |

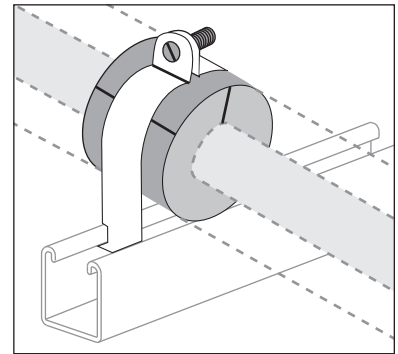
PS CT-3/8 thru PS CT1-4-1/8 - Cush-A-Therm™

The only airtight, crush-resistant insulation clamp on the market.

- Maintains thermal barrier protection
- Prevents condensation
- Properly supports pipe and tube
- Absorbs vibration



1. Insulation slides over pipes
2. Pipe hanger inserts are put in place and glued to insulation.
3. Joints are wrapped and sealed with ProTape.



Nominal 3/4" Wall

| Part No. | Hole Size | Copper Nom. I.D. | O.D. | IPS | O.D. | Length |
|-------------|-----------|------------------|-------|-------|------|--------|
| PS CT-3/8 | 3/8 ID | 1/4 | 3/8 | - | 1.81 | 2.17 |
| PS CT-1/2 | 1/2 ID | 3/8 | 1/2 | 1/4 | 1.89 | |
| PS CT-5/8 | 5/8 ID | 1/2 | 5/8 | 3/8 | 2.05 | |
| PS CT-3/4 | 3/4 ID | 5/8 | 3/4 | - | 2.22 | |
| PS CT-7/8 | 7/8 ID | 3/4 | 7/8 | 1/2 | 2.44 | |
| PS CT-1-1/8 | 1 1/8 ID | 1 | 1 1/8 | 3/4 | 2.76 | 2.56 |
| PS CT-1-3/8 | 1 3/8 ID | 1 1/4 | 1 3/8 | 1 | 3.19 | |
| PS CT-1-5/8 | 1 5/8 ID | 1 1/2 | 1 5/8 | 1 1/4 | 3.35 | |
| PS CT-2-1/8 | 2 1/8 ID | 2 | 2 1/8 | - | 3.86 | 2.96 |
| PS CT-2-1/2 | 2 1/2 ID | 2 1/4 | 2 3/8 | 2 | 4.29 | |
| PS CT-2-5/8 | 2 5/8 ID | 2 1/2 | 2 5/8 | - | 4.87 | |
| PS CT-3-1/8 | 3 1/8 ID | 3 | 3 1/8 | - | 5.00 | 3.35 |
| PS CT-3-5/8 | 3 5/8 ID | 3 1/2 | 3 5/8 | - | 5.94 | 3.94 |
| PS CT-4-1/8 | 4 1/8 ID | 4 | 4 1/8 | 3 1/2 | 6.14 | |

Nominal 1" Wall

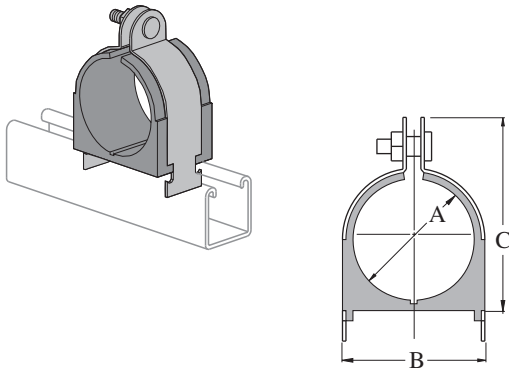
| Part No. | Hole Size | Copper Nom. I.D. | O.D. | IPS | O.D. | Length |
|--------------|-----------|------------------|-------|-------|------|--------|
| PS CT1-5/8 | 5/8 ID | 1/2 | 5/8 | 3/8 | 2.54 | 2.17 |
| PS CT1-3/4 | 3/4 ID | 5/8 | 3/4 | - | 2.82 | |
| PS CT1-7/8 | 7/8 ID | 3/4 | 7/8 | 1/2 | 2.82 | |
| PS CT1-1-1/8 | 1 1/8 ID | 1 | 1 1/8 | 3/4 | 3.06 | 2.56 |
| PS CT1-1-3/8 | 1 3/8 ID | 1 1/4 | 1 3/8 | 1 | 3.33 | |
| PS CT1-1-5/8 | 1 5/8 ID | 1 1/2 | 1 5/8 | 1 1/4 | 3.65 | |
| PS CT1-2-1/8 | 2 1/8 ID | 2 | 2 1/8 | - | 4.16 | |
| PS CT1-2-3/8 | 2 3/8 ID | 2 1/4 | 2 3/8 | 2 | 3.92 | 2.96 |
| PS CT1-2-5/8 | 2 5/8 ID | 2 1/2 | 2 5/8 | - | 4.87 | |
| PS CT1-3-1/8 | 3 1/8 ID | 3 | 3 1/8 | - | 5.14 | 3.35 |
| PS CT1-3-5/8 | 3 5/8 ID | 3 1/2 | 3 5/8 | - | 6.48 | 3.94 |
| PS CT1-4-1/8 | 4 1/8 ID | 4 | 4 1/8 | 3 1/2 | 6.48 | |

PIPE & CONDUIT CLAMPS

Finish: Electro-galvanized Order By: No., and Finish



PS 004T – PS 106N – Cush-a-Clamp® Assembly Pipe & Tube Series



Clamp: Electro-galvanized or stainless steel

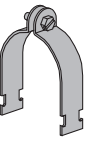
Cushion: Thermoplastic elastomer resistant to the effects of most oils, chemicals and industrial cleaning compounds in temperatures from -50°F to 275°F.
UV Resistant

Includes: Cushion, Clamp and Hardware

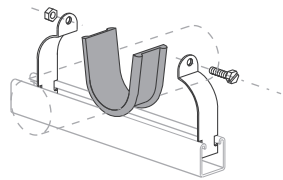
Controlled Squeeze: Parts with the letter "T" have a Controlled Squeeze shoulder Bolt. Available on tube sizes 1/4" thru 1 3/8"

| Pipe Series | | | | | |
|-------------|---------------------|------------|------|------|-------------|
| Part No. | Pipe Size (Nominal) | Dimensions | | | Wt./100 pcs |
| | | A | B | C | |
| PS 009N | 1/4" | 0.54 | 0.98 | 1.34 | 13 |
| PS 011N | 3/8" | 0.67 | 1.13 | 1.54 | 14 |
| PS 014N | 1/2" | 0.84 | 1.29 | 1.82 | 15 |
| PS 017N | 3/4" | 1.05 | 1.50 | 2.08 | 17 |
| PS 021N | 1" | 1.31 | 1.76 | 2.34 | 19 |
| PS 027N | 1 1/4" | 1.66 | 2.17 | 2.73 | 35 |
| PS 030N | 1 1/2" | 1.90 | 2.35 | 2.86 | 41 |
| PS 038N | 2" | 2.37 | 2.82 | 3.67 | 49 |
| PS 046N | 2 1/2" | 2.87 | 3.32 | 4.17 | 57 |
| PS 056N | 3" | 3.50 | 3.95 | 4.79 | 55 |
| PS 064N | 3 1/2" | 4.00 | 4.45 | 5.42 | 88 |
| PS 072N | 4" | 4.50 | 4.95 | 5.92 | 110 |
| PS 089N | 5" | 5.56 | 6.01 | 6.92 | 130 |
| PS 106N | 6" | 6.62 | 7.07 | 8.23 | 140 |

| Tube Series | | | | | | |
|-------------|--------------------------------|-----------------------------|------------|------|------|-------------|
| Part No. | Copper & Steel Tube O. D. Size | Copper Water Pipe (Nominal) | Dimensions | | | Wt./100 pcs |
| | | | A | B | C | |
| PS 004T | 1/4" | | 0.25 | 0.62 | 0.98 | 10 |
| PS 006T | 3/8" | 1/4" | 0.37 | 0.82 | 1.13 | 11 |
| PS 008T | 1/2" | 3/8" | 0.50 | 0.94 | 1.34 | 13 |
| PS 010T | 5/8" | 1/2" | 0.62 | 1.06 | 1.54 | 14 |
| PS 012T | 3/4" | 5/8" | 0.75 | 1.2 | 1.68 | 14 |
| PS 014T | 7/8" | 3/4" | 0.87 | 1.31 | 1.82 | 15 |
| PS 016T | 1" | | 1.00 | 1.44 | 1.95 | 17 |
| PS 018T | 1 1/8" | 1" | 1.12 | 1.57 | 2.08 | 18 |
| PS 020T | 1 1/4" | | 1.25 | 1.70 | 2.21 | 18 |
| PS 022T | 1 3/8" | 1 1/4" | 1.37 | 1.82 | 2.34 | 20 |
| PS 024N | 1 1/2" | | 1.50 | 1.95 | 2.47 | 33 |
| PS 026N | 1 5/8" | 1 1/2" | 1.62 | 2.07 | 2.60 | 35 |
| PS 028N | 1 3/4" | | 1.75 | 2.20 | 2.73 | 37 |
| PS 030N | 1 7/8" | | 1.87 | 2.32 | 2.86 | 39 |
| PS 032N | 2" | | 2.00 | 2.45 | 3.04 | 41 |
| PS 034N | 2 1/8" | | 2.12 | 2.57 | 3.23 | 46 |
| PS 038N | 2 3/8" | | 2.37 | 2.82 | 3.67 | 47 |
| PS 040N | 2 1/2" | | 2.50 | 2.94 | 3.79 | 49 |
| PS 042N | 2 5/8" | | 2.62 | 3.07 | 3.92 | 51 |
| PS 046N | 2 7/8" | | 2.87 | 3.32 | 4.17 | 55 |
| PS 048N | 3" | | 3.00 | 3.57 | 4.42 | 57 |
| PS 050N | 3 1/8" | | 3.12 | 3.57 | 4.42 | 60 |
| PS 056N | 3 1/2" | | 3.50 | 3.95 | 4.79 | 55 |
| PS 058N | 3 5/8" | | 3.62 | 4.2 | 5.11 | 70 |
| PS 064N | 4" | | 4.00 | 4.45 | 5.42 | 88 |
| PS 066N | 4 1/8" | | 4.12 | 4.57 | 5.54 | 94 |
| PS 072N | 4 1/2" | | 4.50 | 4.95 | 5.92 | 110 |
| PS 082N | 5 1/8" | | 5.12 | 5.57 | 6.54 | 125 |
| PS 098N | 6 1/8" | | 6.12 | 6.57 | 7.54 | 130 |



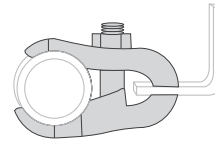
PS 3792 – Power-Wrap™



Material: EPDM
Stock Thickness: 1/8"
Stock Length: 25 ft./box
Service Temp: -70° to 350° F

Weight/100 boxes: 253 lbs.

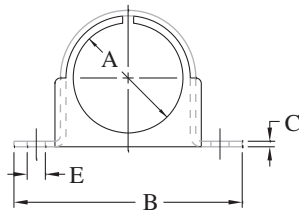
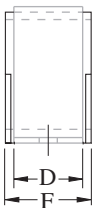
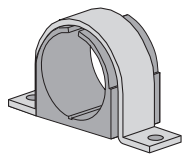
PS 52E – Parallel Pipe and Conduit Clamp



Material: Malleable Iron

| Size | Wt./100 pcs |
|--------|-------------|
| 1/2" | 59 |
| 3/4" | 64 |
| 1" | 70 |
| 1 1/4" | 72 |
| 1 1/2" | 93 |
| 2" | 128 |
| 2 1/2" | 135 |
| 3" | 155 |
| 3 1/2" | 190 |
| 4" | 205 |

PS 004M – PS 038M – Cush-a-Clamp® Assembly Omega Series



Includes: clamp and cushion.
Materials
Clamp: ZD or Stainless Steel
Cushion: Thermoplastic elastomer

| Part No. | Copper Tubing O.D. Size | Water Pipe (Nominal) | Pipe Size (Nominal) | Dimensions | | | | | | Wt./100 pcs | | |
|-----------|-------------------------|----------------------|---------------------|------------|------|------|------|------|------|-------------|------|------|
| | | | | A | B | C | D | E | F | | | |
| PS 004M | 1/4" | – | – | 0.25 | 1.81 | 0.06 | 0.62 | 0.20 | 0.78 | 3.4 | | |
| PS 006M | 3/8" | 1/4 | – | 0.37 | 1.90 | | | 0.20 | 0.81 | 4.0 | | |
| PS 008M | 1/2" | 3/8 | 1/4" | 0.50 | 2.20 | | 0.75 | 0.26 | 0.98 | 5.5 | | |
| PS 010M | 5/8" | 1/2 | 3/8" | 0.62 | 2.32 | | | | | 6.0 | | |
| PS 012M | 3/4" | 5/8 | – | 0.75 | 2.41 | | | | | 6.5 | | |
| PS 014M | 7/8" | 3/4 | 1/2" | 0.87 | 2.56 | | | | | 7.1 | | |
| PS 016M | 1" | – | – | 1.00 | 2.68 | | | | | 7.8 | | |
| PS 018M20 | – | – | 3/4" | 1.05 | 2.68 | | | | | 8.1 | | |
| PS 018M21 | 1 1/8" | 1 | – | 1.12 | 2.82 | | | | | 8.4 | | |
| PS 020M | 1 1/4" | – | – | 1.25 | 3.00 | | | | | 0.08 | 1.25 | 0.26 |
| PS 021M | – | – | 1" | 1.31 | 3.12 | 20 | | | | | | |
| PS 022M | 1 3/8" | 1 1/4 | – | 1.37 | 3.12 | 19 | | | | | | |
| PS 024M | 1 1/2" | – | – | 1.50 | 3.65 | 20 | | | | | | |
| PS 026M | 1 5/8" | 1 1/2 | – | 1.62 | 3.77 | 23 | | | | | | |
| PS 027M | – | – | 1 1/4" | 1.66 | 3.90 | 0.10 | 1.25 | 0.33 | 32 | | | |
| PS 028M | 1 3/4" | – | – | 1.75 | 3.90 | | | | 32 | | | |
| PS 030M | 1 7/8" | – | 1 1/2" | 1.87 | 4.02 | | | | 34 | | | |
| PS 032M | 2" | – | – | 2.00 | 4.15 | | | | 36 | | | |
| PS 034M | 2 1/8" | – | – | 2.12 | 4.40 | | | | 41 | | | |
| PS 038M | – | – | 2" | 2.37 | 4.71 | | | | 44 | | | |

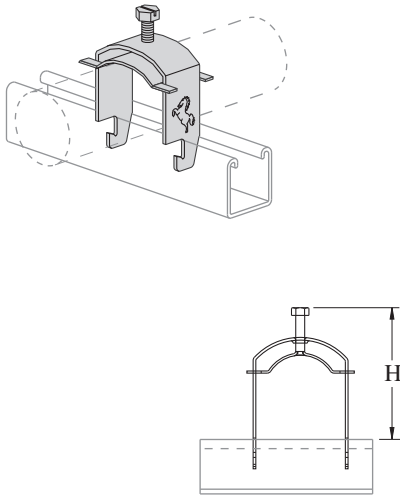
Note: Cannot be used on slot side of metal framing channel.

PIPE & CONDUIT CLAMPS

Finish: Electro-galvanized Order By: No., and Finish



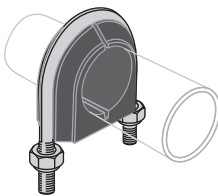
PS MU-1/4 thru PS MU-4 – Mustang Universal One-Piece Pipe, Conduit (GRC, EMT & IMC) and Tubing Clamps



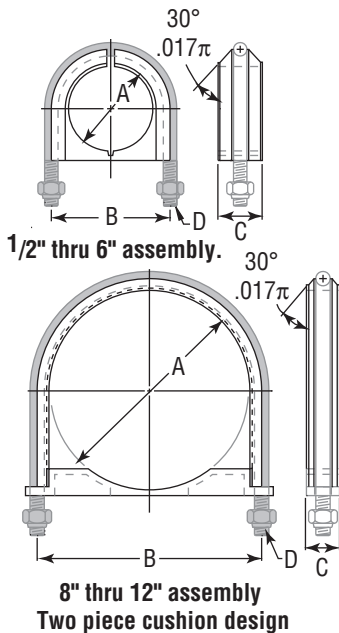
| Part No. | Nominal Trade Size | OD | | Height Above Channel "H" | |
|-------------|--------------------|--------|--------|--------------------------|--------|
| | | Min | Max | Min | Max. |
| PS MU-1/4 | 1/4" | 0.250" | 0.540" | 1 3/4" | 2" |
| PS MU-3/8 | 3/8" | 0.500" | 0.675" | 1 7/8" | 2 1/8" |
| PS MU-1/2 | 1/2" | 0.625" | 0.840" | 2" | 2 1/4" |
| PS MU-3/4 | 3/4" | 0.875" | 1.050" | 2 1/4" | 2 1/2" |
| PS MU-1 | 1" | 1.125" | 1.315" | 2 1/2" | 2 3/4" |
| PS MU-1-1/4 | 1 1/4" | 1.375" | 1.660" | 2 3/4" | 3 1/8" |
| PS MU-1-1/2 | 1 1/2" | 1.625" | 1.900" | 3" | 3 3/8" |
| PS MU-2 | 2" | 2.000" | 2.375" | 3 1/2" | 3 7/8" |
| PS MU-2-1/2 | 2 1/2" | 2.500" | 2.875" | 4 1/4" | 4 5/8" |
| PS MU-3 | 3" | 3.000" | 3.500" | 4 7/8" | 5 3/8" |
| PS MU-3-1/2 | 3 1/2" | 3.625" | 4.000" | 5 3/8" | 5 7/8" |
| PS MU-4 | 4" | 4.125" | 4.500" | 5 7/8" | 6 3/8" |

Note:
Available in 14 ga. Electro-galvanized steel

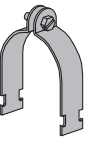
PS UB 1/2 – PS UB 10 – Cush-a-Clamp® Assembly U-Bolt Series



- Includes:** U-bolt, cushion, and hardware.
- Materials:** U-Bolt: Electrogalvanized finish or Type 316 SS
- Cushion:** Thermoplastic elastomer
- Note:** Not intended for use with metal framing components due to the length of the thread.

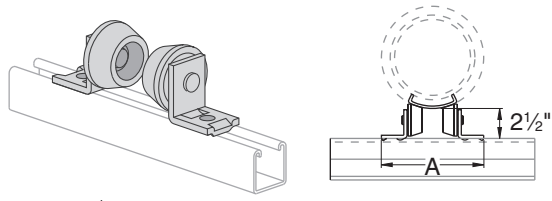


| Part No. | Pipe Size | Dimensions | | | | Wt./100 Pcs |
|-------------|-----------|------------|-------|------|---------------|-------------|
| | | A | B | C | D | |
| PS UB 1/2 | 1/2" | 0.84 | 1.60 | 0.68 | 1/4-20 UNC-2B | 9 |
| PS UB 3/4 | 3/4" | 1.05 | 1.80 | | | 10 |
| PS UB 1 | 1" | 1.31 | 2.05 | | | 12 |
| PS UB 1-1/4 | 1 1/4" | 1.66 | 2.55 | 1.24 | 3/8-16 UNC-2B | 32 |
| PS UB 1-1/2 | 1 1/2" | 1.90 | 2.80 | | | 36 |
| PS UB 2 | 2" | 2.37 | 3.35 | | | 42 |
| PS UB 2-1/2 | 2 1/2" | 2.87 | 3.90 | 1.24 | 1/2-13 UNC-2B | 72 |
| PS UB 3 | 3" | 3.50 | 4.55 | | | 84 |
| PS UB 3-1/2 | 3 1/2" | 4.00 | 5.05 | | | 93 |
| PS UB 4 | 4" | 4.50 | 5.50 | | | 102 |
| PS UB 5 | 5" | 5.56 | 6.56 | 1.44 | 5/8-11 UNC-2B | 123 |
| PS UB 6 | 6" | 6.62 | 7.75 | | | 243 |
| PS UB 8 | 8" | 8.62 | 9.82 | | | 293 |
| PS UB 10 | 10" | 10.75 | 12.16 | 1.65 | 3/4-10 UNC-2B | 492 |



Metal Channel
Fasteners
Fittings
Pipe & Conduit Clamps
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

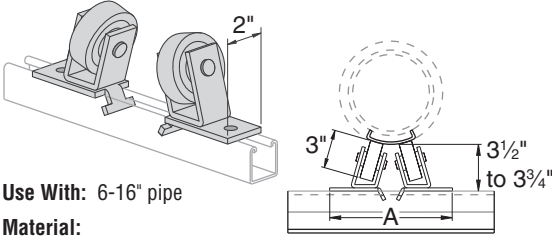
PS 1901 – Two-Piece Pipe Roller



Use With: 1/2"-4" pipe
Load Rating: 500 lbs.
Material:
 Bracket - steel;
 Roller - cast iron (or aluminum)
Finish: Green or galvanized;
 Roller - plain
 Weight/100 pair: 268 lbs.

| Chart for Dimension A | | | | | | | | |
|-----------------------|---------------|----------------------|--------|--------|--------|--------|----|--------|
| Pipe Size | No Insulation | Insulation Thickness | | | | | | |
| | | 1" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | |
| 1/2" | 6 1/2" | 6 1/2" | - | - | - | - | - | |
| 3/4" | | | 6 5/8" | 6 7/8" | | | | |
| 1" | | | 6 7/8" | 7 1/8" | 7 3/8" | | | |
| 1 1/4" | | | | 7 1/2" | 7 5/8" | | | |
| 1 1/2" | | 6 5/8" | 7 1/8" | 7 3/8" | 7 1/2" | 8" | | |
| 2" | | | 7" | 7 1/2" | 7 3/4" | 7 7/8" | | 8 1/8" |
| 2 1/2" | | 7" | 7 1/4" | 7 5/8" | 7 7/8" | 8" | | 8 3/8" |
| 3" | | | 7 1/4" | 7 5/8" | 7 7/8" | 8" | | 8 3/8" |
| 3 1/2" | 7 1/4" | 7 5/8" | 7 7/8" | 8" | 8 3/8" | 9" | | |
| 4" | 6 5/8" | 7 1/4" | 7 5/8" | 7 7/8" | 8" | 8 3/8" | 9" | |

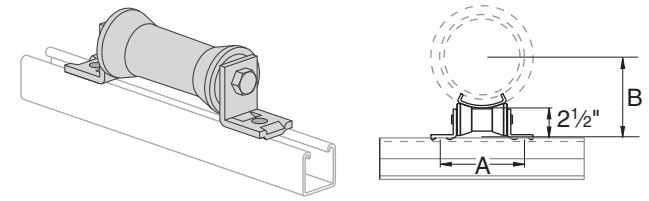
PS 815 – Two-Piece, Heavy Duty Pipe Roller



Use With: 6-16" pipe
Material:
 Bracket - steel; Roller - cast iron
Finish: Green or galvanized; Roller - plain
Load Rating: 1500 lbs.
 Weight/100 pair: 680 lbs.

| Chart for Dimension A | | | | | | | |
|-----------------------|---------------|----------------------|---------|---------|---------|---------|---------|
| Pipe Size | No Insulation | Insulation Thickness | | | | | |
| | | 1" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| 6" | 9 1/2" | 10 1/4" | 10 1/2" | 10 3/4" | 11" | 11 3/8" | 11 7/8" |
| 8" | 10 1/8" | - | 11" | 11 3/8" | 11 3/4" | 12" | 12 1/2" |
| 10" | 10 3/4" | | 11 5/8" | 12" | 12 1/4" | 12 1/2" | 13" |
| 12" | 11 1/4" | | 12 1/8" | 12 1/2" | 12 3/4" | 13" | 13 1/2" |
| 14" | 11 5/8" | | 12 1/2" | 12 7/8" | 13" | 13 3/8" | 14" |
| 16" | 12 1/8" | | 13" | 13 3/8" | 13 7/8" | 14" | 14 1/2" |

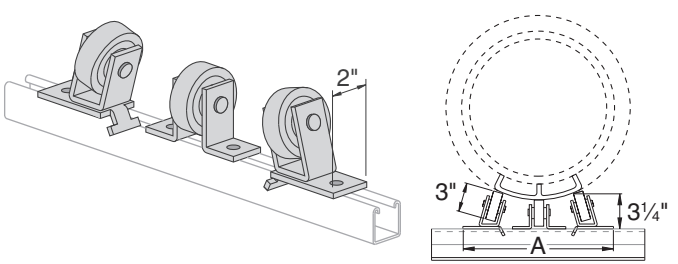
PS 1911 – Pipe Roller



Material: Bracket and shaft - steel; Roller - cast iron
Finish: Brackets - painted green or galvanized; Shaft - electro-galvanized;
 Roller - plain
Load Rating: 950 lbs.

| Size | Fits Pipe Size | A | B | Wt./100 pcs |
|------------|----------------|---------|---------|-------------|
| 2 – 3-1/2" | 2" | 5" | 3" | 160 |
| | 2 1/2" | | 3 1/4" | |
| | 3" | | 3 5/8" | |
| 4 – 6" | 3 1/2" | 5" | 3 7/8" | 215 |
| | 4" | 5 7/8" | 4 5/16" | |
| | 5" | 5 7/8" | 4 7/8" | |
| 8 – 10" | 6" | 5 7/8" | 5 7/16" | 525 |
| | 8" | 8 5/16" | 7 1/8" | |
| | 10" | 8 5/16" | 8 1/4" | |
| 12 – 14" | 12" | 10 7/8" | 9 7/8" | 1,025 |
| | 14" | | 10 1/2" | |

PS 816 – Three Piece, Heavy Duty Pipe Roller



Use With: 16-24" pipe
Material: Bracket - steel; Roller - cast iron
Finish: Bracket - painted green or galvanized; Roller - plain
Load Rating: 2,000 lbs.

| Chart for Dimension A | | | | | |
|-----------------------|----------------------|---------|---------|---------|---------|
| Pipe Size | Insulation Thickness | | | | |
| | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| 16" | - | | 13 7/8" | 14" | 14 1/2" |
| 18" | 13 5/8" | 14" | 14 1/8" | 14 1/2" | 15" |
| 20" | 14 1/8" | 14 1/2" | 14 3/4" | 15" | 15 1/2" |
| 24" | 15 1/4" | 15 1/2" | 15 7/8" | 16 1/8" | 16 3/8" |

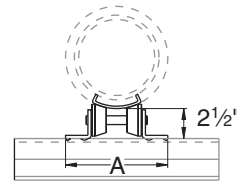
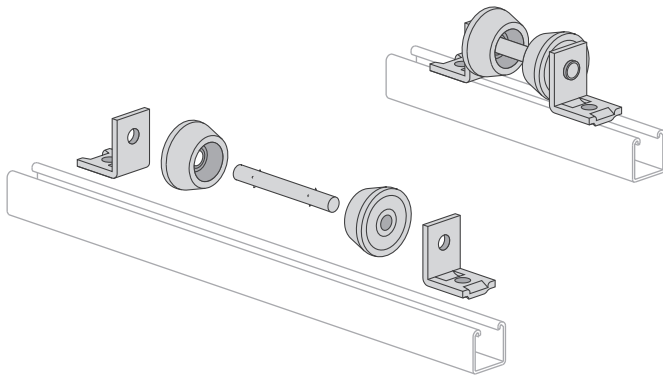
Weight/100 units: 1,046 lbs.

ROLLERS

Order By: No. and Finish



PS 1902 – Pipe-Roller Assembly



Material:

Bracket and shaft - steel;
Roller - cast iron

Finish:

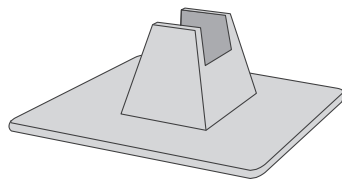
Bracket - painted green or galvanized;
Shaft - electro-galvanized; Roller - plain

Load Rating: 750 lbs.

| Part No. | A | Wt./100 pcs. |
|-------------------|-----|--------------|
| PS 1902 - 1"-2" | 6¾" | 299 |
| PS 1902 - 2½"-3½" | 7½" | 304 |
| PS 1902 - 4"-6" | 8½" | 311 |
| PS 1902 - 8" | 9⅞" | 319 |

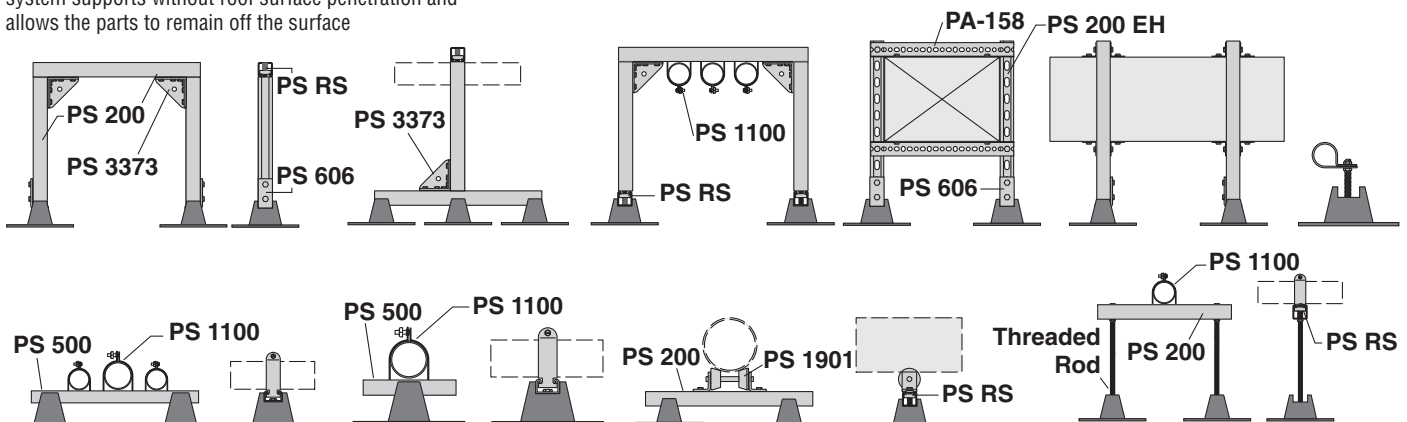
| Pipe Size | No Insulation | Insulation Thickness | | | | | | |
|-----------|-------------------|----------------------|-------------------|-------------------|-----------------|-----------------|-----------------|---|
| | | 1" | 1½" | 2" | 2½" | 3" | 4" | |
| 1/2" | PS 1902 - 1"-2" | PS 1902 - 1"-2" | PS 1902 - 1"-2" | PS 1902 - 2½"-3½" | - | - | - | |
| 3/4" | | | | | | | | |
| 1" | | | | | | | | |
| 1¼" | | PS 1902 - 2½"-3½" | PS 1902 - 2½"-3½" | PS 1902 - 4"-6" | PS 1902 - 4"-6" | PS 1902 - 4"-6" | PS 1902 - 4"-6" | - |
| 1½" | | | | | | | | |
| 2" | | | | | | | | |
| 2½" | | | | | | | | |
| 3" | PS 1902 - 4"-6" | PS 1902 - 4"-6" | PS 1902 - 8" | PS 1902 - 8" | PS 1902 - 8" | PS 1902 - 8" | PS 1902 - 8" | |
| 3½" | | | | | | | | |
| 4" | | | | | | | | |
| 5" | PS 1902 - 2½"-3½" | PS 1902 - 4"-6" | PS 1902 - 8" | PS 1902 - 8" | PS 1902 - 8" | PS 1902 - 8" | PS 1902 - 8" | |
| 6" | | | | | | | | |
| 8" | | | | | | | | |

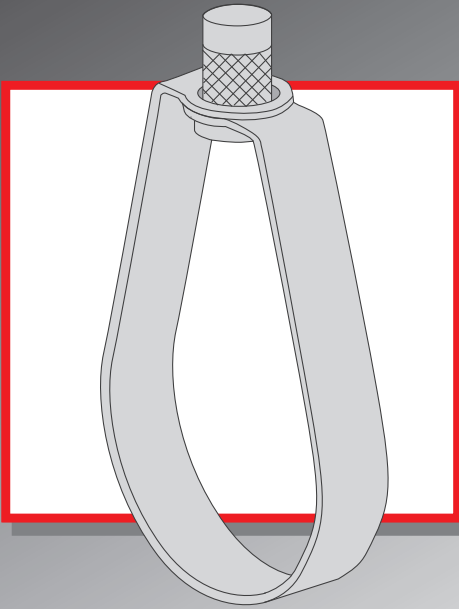
PS PP – Power-Pier



The Power-Pier Rooftop support system provides a simple and versatile way to support and manage pipe, tubing, conduit, HVAC systems, and the like. The Power-Pier system supports without roof surface penetration and allows the parts to remain off the surface

| Part Number | Power-Pier Bases Qty. | Description |
|--------------|-----------------------|---------------------------------------------------------|
| PS PP | 4 | Power-Pier Base Only (4 Bases & Hardware) |
| PS-SPSS-6 HG | 4 | PS PP + 4 Pcs PS 500 EH HG @ 6" Long for up to 3½" Pipe |
| PS-SPSS-10HG | 4 | PS PP + 4 Pcs PS 500 EH HG @ 10" Long for 4" to 8" Pipe |
| PS-MPDS-26HG | 4 | PS PP + 2 Pcs PS 200 EH HG @ 26" Long for Trapeze |
| PS-MPDS-38HG | 4 | PS PP + 2 Pcs PS 200 EH HG @ 38" Long for Trapeze |
| PS-MPDS-50HG | 4 | PS PP + 2 Pcs PS 200 EH HG @ 50" Long for Trapeze |
| PS-MPDS-62HG | 4 | PS PP + 2 Pcs PS 200 EH HG @ 62" Long for Trapeze |





PIPE HANGERS

P8300 NFPA thru P8313 NFPA – Ring Hanger NFPA Size

Size: Range 1/2" thru 8"

Finish: Electro-Galvanized (EG)

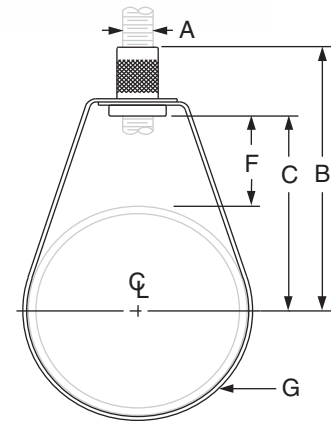
Function: Recommended for the suspension of stationary, non-insulated pipe lines

Features:

- A keyed insert nut to ensure that the loop hanger and insert nut stay together Insert nut can be removed if required
- Complies with Federal Specification A-A1192A (Type 10) and MSS SP-69 (Type 10)
- NFPA standards for reduced rod sizes for Electro Galvanized (EG) only
- UL Approval for use with CPVC pipe



| Power-Strut Part No. | Pipe Size | Max Load | Wt. lbs | A Rod Size | B | C | F | G Width |
|----------------------|-------------------------------|----------|---------|------------|---------------------------------|---------------------------------|--------------------------------|---------|
| P8300 NFPA | 1/2 | 300 | 0.10 | 3/8 | 2 ⁷ / ₁₆ | 1 ⁷ / ₁₆ | 1 ¹ / ₁₆ | 5/8 |
| P8301 NFPA | 3/4 | 300 | 0.10 | 3/8 | 2 ¹¹ / ₁₆ | 1 ¹¹ / ₁₆ | 1 ¹ / ₈ | 5/8 |
| P8302 NFPA | 1 | 300 | 0.10 | 3/8 | 2 ¹³ / ₁₆ | 1 ¹³ / ₁₆ | 1 ¹ / ₈ | 5/8 |
| P8303 NFPA | 1 ¹ / ₄ | 300 | 0.11 | 3/8 | 2 | 1 | 1 ¹ / ₁₆ | 5/8 |
| P8304 NFPA | 1 ¹ / ₂ | 300 | 0.11 | 3/8 | 3 | 2 | 1 ¹ / ₁₆ | 5/8 |
| P8305 NFPA | 2 | 300 | 0.14 | 3/8 | 3 ³ / ₁₆ | 2 ³ / ₁₆ | 1 ¹ / ₁₆ | 5/8 |
| P8306 NFPA | 2 ¹ / ₂ | 300 | 0.19 | 3/8 | 4 ⁹ / ₁₆ | 3 ⁵ / ₁₆ | 1 ⁷ / ₈ | 7/8 |
| P8307 NFPA | 3 | 1000 | 0.23 | 3/8 | 5 | 3 ³ / ₄ | 2 | 7/8 |
| P8309 NFPA | 4 | 1000 | 0.30 | 3/8 | 6 | 4 ¹¹ / ₁₆ | 2 ³ / ₈ | 7/8 |
| P8310 NFPA | 5 | 1000 | 0.50 | 1/2 | 6 ¹ / ₂ | 5 ¹ / ₄ | 2 ⁷ / ₁₆ | 3/4 |
| P8311 NFPA | 6 | 1250 | 0.58 | 1/2 | 7 ³ / ₄ | 6 ³ / ₁₆ | 2 | 3/4 |
| P8313 NFPA | 8 | 1250 | 0.90 | 1/2 | 9 ⁵ / ₁₆ | 7 ¹¹ / ₁₆ | 3 ³ / ₈ | 7/8 |



P8300 thru P8305 – Ring Hanger CT Size

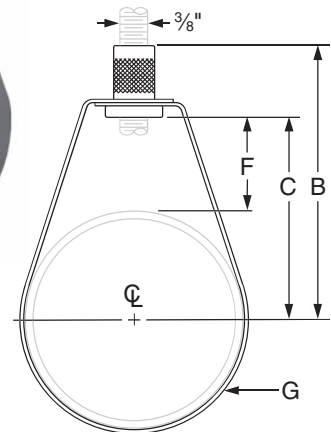
Size: 1/2" thru 2"

Finish: Copper-Colored Epoxy (PC)

Function: Allows vertical adjustment of pipe after installation

Features:

- A keyed insert nut to ensure that the loop hanger and insert nut stay together
- Insert nut can be removed if required
- Complies with Federal Specification A-A1192A (Type 10) and MSS SP-69 (Type 10)
- NFPA standards for reduced rod sizes for Electro Galvanized (EG) only



| Power-Strut Part No. | Pipe Size | Max Load | Weight | B | C | F | G |
|----------------------|-------------------------------|----------|--------|---------------------------------|---------------------------------|---------------------------------|-----|
| P8300 CT | 1/2 | 180 | 0.11 | 2 ⁷ / ₁₆ | 2 | 1 ¹¹ / ₁₆ | 5/8 |
| P8301 CT | 3/4 | 180 | 0.11 | 2 ¹¹ / ₁₆ | 1 ¹³ / ₁₆ | 1 ¹ / ₈ | 5/8 |
| P8302 CT | 1 | 180 | 0.12 | 2 ⁹ / ₁₆ | 1 ¹¹ / ₁₆ | 1 ¹ / ₈ | 5/8 |
| P8303 CT | 1 ¹ / ₄ | 180 | 0.13 | 2 ¹ / ₂ | 1 ⁵ / ₈ | 1 ⁵ / ₁₆ | 5/8 |
| P8304 CT | 1 ¹ / ₂ | 180 | 0.14 | 2 ¹³ / ₁₆ | 1 ¹⁵ / ₁₆ | 1 ¹ / ₈ | 5/8 |
| P8305 CT | 2 | 180 | 0.16 | 2 ³ / ₄ | 1 ⁷ / ₈ | 7/8 | 5/8 |



P8000, P8001 – Junior Ductile Iron Top Beam Clamp

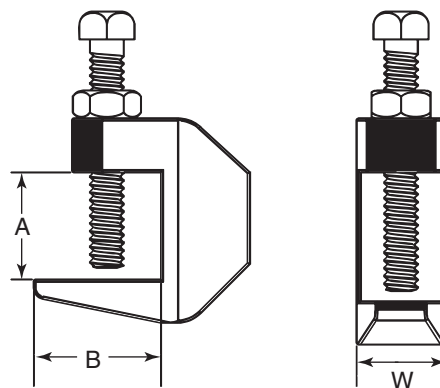
Size: 3/8" and 1/2" rod sizes

Finish: Plain (PL) and Electro-Galvanized (EG)

Function: Structural attachment to top or bottom of metal beams, purlins, channel, or angle iron

Features:

- Set screw made of hardened steel
- Complies with Federal Specification A-A192A (Type 19) and MSS SP-69 (Type 19)



| Part No. Plain & EG | Rod Size | Max Load Top | Max Load Bottom | Weight | Opening A | B | W |
|------------------------|----------|--------------|-----------------|--------|-----------|---------|---------|
| P8000 | 3/8" | 500 | 250 | 0.33 | 3/4" | 1 1/16" | 7/8" |
| P8001 | 1/2" | 950 | 760 | 0.34 | 3/4" | 1 1/16" | 1 1/16" |

P8400 thru P8413 – Standard Clevis Hanger

Size: 1/2" thru 8"

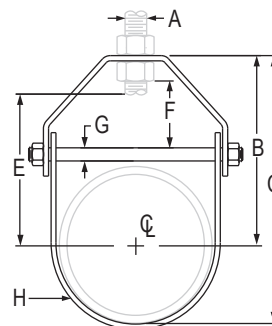
Finish: Plain (PL) and Electro-Galvanized (EG)

Function: Allows vertical adjustment of pipe after installation

Features:

- Complies with Federal Specification WW-H171 (Type 1) and MSS SP-69 (Type 19)
- Set screw made of hardened steel
- Maximum temperature Plain 650° F, Galvanized 450° F
- When using an oversize clevis, it is recommended to install a full-width spacer on the cross bolt to prevent failure due to disfiguring the U-strap
- When using insulated pipe, order hanger sized to correspond to overall dimension. It is also recommended to use insulation shields

| Part No. | Pipe Size | Max Load | Wt. | A Rod Size | B | C | E Take Off | F Adj. | G | H Width Lower |
|----------|-----------|----------|------|------------|----------|----------|------------|----------|------|---------------|
| P8400 | 1/2" | 610 | 0.31 | 3/8" | 1 5/8" | 2 1/8" | 1 1/2" | 5/8" | 1/4" | 1" |
| P8401 | 3/4" | 610 | 0.33 | 3/8" | 1 3/4" | 2 3/8" | 1 5/16" | 5/8" | 1/4" | 1" |
| P8402 | 1 1/4" | 610 | 0.41 | 3/8" | 2 3/8" | 3 5/16" | 1 11/16" | 5/8" | 1/4" | 1" |
| P8403 | 1" | 610 | 0.34 | 3/8" | 2 1/16" | 2 3/4" | 1 5/8" | 5/8" | 1/4" | 3/4" |
| P8404 | 1 1/2" | 610 | 0.43 | 3/8" | 2 15/16" | 3 15/16" | 2 1/8" | 7/8" | 1/4" | 1" |
| P8405 | 2" | 610 | 0.53 | 3/8" | 3 3/4" | 4 1/2" | 2 5/8" | 1 1/8" | 1/4" | 1" |
| P8406 | 2 1/2" | 1130 | 0.74 | 1/2" | 3 3/4" | 5 1/4" | 3 3/16" | 1 5/16" | 3/8" | 1" |
| P8407 | 3" | 1130 | 0.99 | 1/2" | 4 1/8" | 6" | 4 1/16" | 1 5/8" | 3/8" | 1" |
| P8409 | 4" | 1130 | 1.43 | 5/8" | 5 3/8" | 7 3/4" | 4 1/2" | 1 11/16" | 3/8" | 1 1/4" |
| P8410 | 5" | 1430 | 1.62 | 5/8" | 6 13/16" | 9 3/4" | 5 1/2" | 1 15/16" | 3/8" | 1 3/16" |
| P8411 | 6" | 1940 | 3.26 | 3/4" | 8 1/4" | 11 3/4" | 5 3/4" | 1 11/16" | 1/2" | 1 7/16" |
| P8413 | 8" | 2000 | 4.39 | 3/4" | 9 1/2" | 14" | 7 9/16" | 2" | 1/2" | 1 7/16" |



2 1/2" thru 8"



P8105 thru P8109 – Lightweight Clevis Hanger Plain

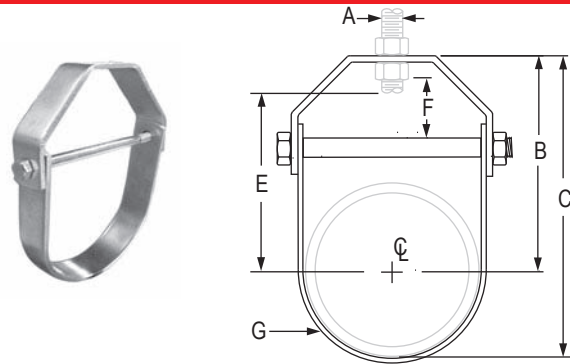
Size: 2" thru 4"

Finish: Plain (PL) and Electro-Galvanized (EG)

Function: Allows vertical adjustment of pipe after installation

Features:

- Maximum temperature Plain 650° F, Galvanized 450° F
- Complies with Federal Specification WW-H171 (Type 1), (MSS) SP-69 (Type 1)
- When using an oversize clevis, it is recommended to install a full-width spacer in the cross bolt to prevent failure due to disfiguring the U-strap
- When using insulated pipe, order hanger sized to correspond to overall dimension. It is also recommended to use insulation shields



| Part No. | Size | Max Load | Wt | A Rod Size | B | C | E Take Out | F Adj. | G Width Lower |
|----------|------|----------|------|------------|-------|-------|------------|---------|---------------|
| P8105 | 2 | 300 | 0.34 | 3/8 | 3/4 | 4 1/2 | 2 5/8 | 1 1/8 | 1/4 |
| P8107 | 3 | 400 | 0.72 | 1/2 | 4 1/8 | 6 | 4 1/16 | 1 5/8 | 3/8 |
| P8109 | 4 | 550 | 0.97 | 5/8 | 5 3/8 | 7 3/4 | 4 1/2 | 1 11/16 | 3/8 |

P8200 thru P8205 – Malleable Split Ring

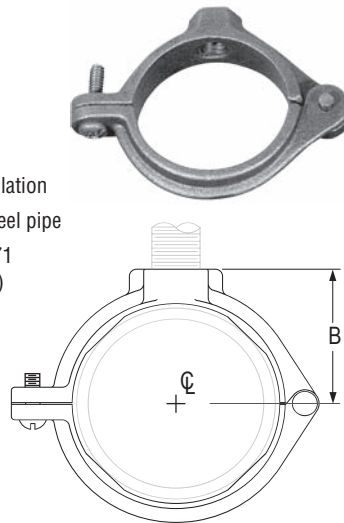
Size: 1/2" thru 2"

Finish: Plain (PL) and Electro-Galvanized (EG)

Material: Malleable Iron

Features:

- 2 bolt design
- Hinged design provides for economical installation
- Designed to provide a tight fit on standard steel pipe
- Complies with Federal Specification WW-H171 (Type 25), (MSS) SP-58 and SP-69 (Type 12)



| Part No. Plain & EG | Tube Size | Rod Size | Max Load | Wt. lbs. | B |
|---------------------|-----------|----------|----------|----------|--------|
| P8200 | 1/2 | 3/8 - 16 | 300 | 0.13 | 7/8 |
| P8201 | 3/4 | 3/8 - 16 | 300 | 0.15 | 1 1/16 |
| P8202 | 1 | 3/8 - 16 | 300 | 0.17 | 1 1/8 |
| P8203 | 1 1/4 | 3/8 - 16 | 300 | 0.28 | 1 1/4 |
| P8204 | 1 1/2 | 3/8 - 16 | 300 | 0.29 | 1 7/16 |
| P8205 | 2 | 3/8 - 16 | 300 | 0.32 | 1 5/8 |

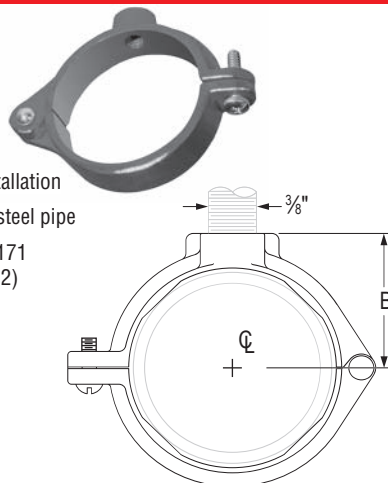
P8200 CT thru P8205 CT – Malleable Split Ring – Copper-Colored Epoxy

Size: 1/2" thru 2"

Finish: Copper-Colored Epoxy (PC)

Features:

- 2 bolt design
- Hinged design provides for economical installation
- Designed to provide a tight fit on standard steel pipe
- Complies with Federal Specification WW-H171 (Type 25), (MSS) SP-58 and SP-69 (Type 12)



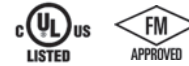
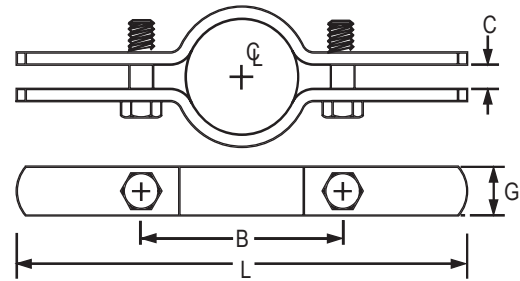
| Part No. Plain & EG | Tube Size | Rod Size | Max Load | Wt. lbs. | B |
|---------------------|-----------|----------|----------|----------|--------|
| P8200 CT | 1/2 | 3/8 - 16 | 300 | 0.13 | 7/8 |
| P8201 CT | 3/4 | 3/8 - 16 | 300 | 0.15 | 1 1/16 |
| P8202 CT | 1 | 3/8 - 16 | 300 | 0.17 | 1 1/8 |
| P8203 CT | 1 1/4 | 3/8 - 16 | 300 | 0.28 | 1 1/4 |
| P8204 CT | 1 1/2 | 3/8 - 16 | 300 | 0.29 | 1 7/16 |
| P8205 CT | 2 | 3/8 - 16 | 300 | 0.32 | 1 5/8 |



P8500 thru P8513 – Standard Riser Clamp

Size: Range 1/2" thru 8"
Finish: Plain (PL) and Electro-Galvanized (EG)
Material: Carbon Steel
Features:

- Maximum temperature Plain 650° F, Galvanized 450° F
- Designed for standard iron pipe
- Complies with Federal Specifications A-A 1192A (Type 8) and MSS/SP-69 and SP-58 (Type 8)



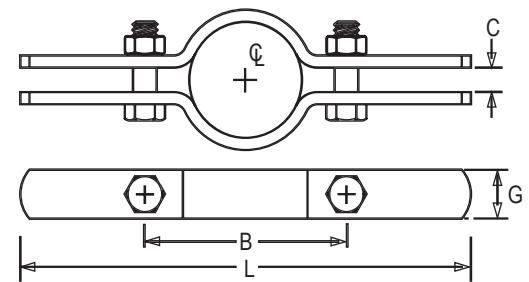
1 1/2" thru 8"

| Part No. Plain & EG | Tube Size | Max Load | Wt. lbs. | L | G Width | B | C | Bolt Size | Torque Value |
|---------------------|-----------|----------|----------|--------|---------|-------|-----|-----------|--------------|
| P8500 | 1/2 | 220 | 0.80 | 9 | 1 | 2 1/8 | 3/8 | 3/8 | 19 |
| P8501 | 3/4 | 220 | 0.80 | 9 | 1 | 2 7/8 | 3/8 | 3/8 | 19 |
| P8502 | 1 1/4 | 250 | 1.06 | 9 1/4 | 1 | 3 1/2 | 3/8 | 3/8 | 19 |
| P8503 | 1 | 220 | 1.04 | 9 | 1 | 3 1/8 | 3/8 | 3/8 | 19 |
| P8504 | 1 1/2 | 250 | 1.08 | 10 | 1 3/16 | 3 7/8 | 3/8 | 3/8 | 19 |
| P8505 | 2 | 300 | 1.16 | 10 1/4 | 3/16 | 4 1/4 | 1/2 | 3/8 | 19 |
| P8507 | 3 | 500 | 1.56 | 11 3/4 | 1 3/16 | 5 1/2 | 1/2 | 3/8 | 19 |
| P8509 | 4 | 750 | 1.70 | 13 | 1 | 7 | 1/2 | 1/2 | 50 |
| P8511 | 6 | 1600 | 3.70 | 15 1/4 | 1 1/2 | 9 | 1/2 | 1/2 | 50 |
| P8513 | 8 | 2500 | 7.40 | 18 1/4 | 1 1/2 | 12 | 5/8 | 5/8 | 50 |

P8500 thru P8505 – Standard Riser Clamp – Copper-Colored Epoxy

Size: Range 1/2" thru 2"
Finish: Copper-Colored Epoxy (PC)
Material: Carbon Steel
Features:

- Maximum temperature Plain 650° F, Galvanized 450° F
- Designed for standard iron pipe
- Complies with Federal Specifications A-A1192A (Type 8) and MSS/SP-69 and SP-58 (Type 8)



| Part No. Plain & EG | Tube Size | Max Load | Wt. lbs. | L | G Width | B | C | Bolt Size | Torque Value |
|---------------------|-----------|----------|----------|--------|---------|-------|-----|-----------|--------------|
| P8500 | 1/2 | 220 | 0.80 | 9 | 1 | 2 1/8 | 3/8 | 3/8 | 19 |
| P8501 | 3/4 | 220 | 0.80 | 9 | 1 | 2 7/8 | 3/8 | 3/8 | 19 |
| P8502 | 1 1/4 | 250 | 1.06 | 9 1/4 | 1 | 3 1/2 | 3/8 | 3/8 | 19 |
| P8503 | 1 | 220 | 1.04 | 9 | 1 | 3 1/8 | 3/8 | 3/8 | 19 |
| P8504 | 1 1/2 | 250 | 1.08 | 10 | 1 3/16 | 3 7/8 | 3/8 | 3/8 | 19 |
| P8505 | 2 | 300 | 1.16 | 10 1/4 | 3/16 | 4 1/4 | 1/2 | 3/8 | 19 |

P8600 – Cushion Clamp

Size: Range 3/8" thru 4 1/8"

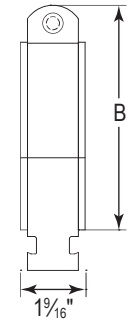
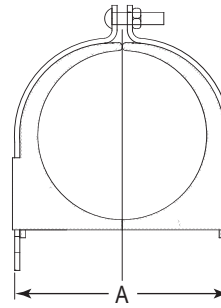
Finish: Electro-Galvanized (EG) or Type 316 Stainless Steel (SS)

Cushion: Thermoplastic elastomer

Function: Fits any standard 1 5/8" wide strut channel

Features:

- Ideal for multiple runs while absorbing shock and vibration, reducing unwanted noise and preventing galvanic corrosion
- Interlock edges and channel locator legs help ensure that the cushion remains in place
- Temperature range: -65° F to 275°



| Part No. | Copper Tube Size (O.D.) | Max Load | Wt. lbs. | I.D. in. | A in. | B in. |
|---------------|-------------------------|----------|----------|----------|-------|-------|
| P8600-37 EG | 3/8 | 400 | 0.11 | 0.34 | 0.85 | 1.16 |
| P8600-50 EG | 1/2 | 400 | 0.13 | 0.53 | 0.97 | 1.37 |
| P8600-62 EG | 5/8 | 400 | 0.14 | 0.60 | 1.05 | 1.54 |
| P8600-75 EG | 3/4 | 600 | 0.14 | 0.78 | 1.23 | 1.71 |
| P8600-87 EG | 7/8 | 600 | 0.15 | 1.15 | 1.30 | 1.89 |
| P8600-1125 EG | 1 1/8 | 600 | 0.18 | 1.08 | 1.52 | 2.14 |
| P8600-137 EG | 1 3/8 | 600 | 0.20 | 1.31 | 1.80 | 2.31 |
| P8600-162 EG | 1 5/8 | 600 | 0.25 | 1.65 | 2.10 | 2.63 |
| P8600-2125 EG | 2 1/8 | 800 | 0.46 | 2.05 | 2.71 | 3.31 |
| P8600-262 EG | 2 5/8 | 800 | 0.51 | 2.51 | 3.17 | 3.90 |
| P8600-3125 EG | 3 1/8 | 800 | 0.60 | 3.01 | 3.66 | 4.43 |
| P8600-4125 EG | 4 1/8 | 1000 | 0.94 | 4.02 | 4.85 | 5.68 |

P8700 – Copper Tube Strut Clamp

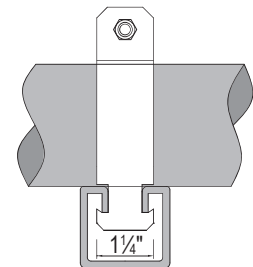
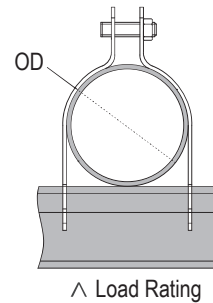
Size: Range 1/2" thru 4"

Finish: Copper-Colored Coated (PC)

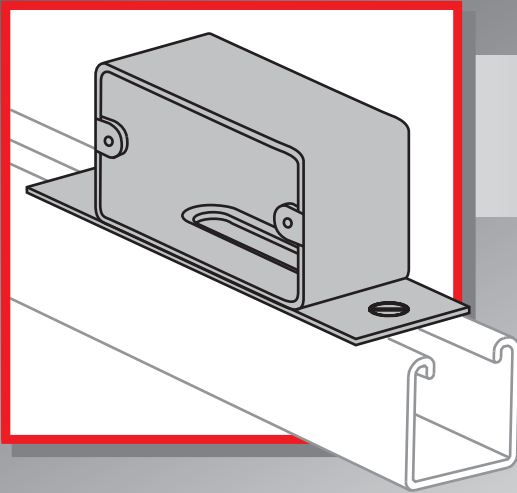
Material: Carbon Steel

Features:

- Maximum temperature Plain 650° F, Galvanized 450° F
- Designed for standard iron pipe
- Complies with Federal Specifications A-A1192A (Type 8) and MSS/SP-69 and SP-58 (Type 8)



| Part No. | Nominal Pipe Size | Max Load | Wt. lbs. | O.D. in. |
|--------------|-------------------|----------|----------|----------|
| P8700-50 CP | 1/2 | 400 | 0.08 | 5/8 |
| P8700-75 CP | 3/4 | 400 | 0.09 | 7/8 |
| P8700-1 CP | 1 | 600 | 0.13 | 1 1/8 |
| P8700-125 CP | 1 1/4 | 600 | 0.15 | 1 3/8 |
| P8700-150 CP | 1 1/2 | 600 | 0.16 | 1 |
| P8700-2 CP | 2 | 800 | 0.28 | 2 1/8 |
| P8700-250 CP | 2 1/2 | 800 | 0.33 | 2 5/8 |
| P8700-3 CP | 3 | 800 | 0.38 | 3 1/8 |
| P8700-4 CP | 4 | 1000 | 0.58 | 4 1/8 |



ELECTRICAL

Power-Strut offers a versatile means of supporting lighting, conduits, cable and other portions of an electrical system.

Power-Strut is listed as an electrical raceway by Underwriters laboratories as specified by the National Electric Code (Article 384), and CSA approved in accordance with the Canadian Electrical Code (Part 1).

MATERIAL:

Power-Strut electrical raceways are cold formed from low carbon steel and meet the requirements of ASTM A-1011 Grade 33 in painted green or ASTM A-653 Grade 33 in pre-galvanized material. Plain or electro-galvanized fittings conform to the ASTM A-635 or ASTM A-36 standards while pre-galvanized fittings meet the requirements of ASTM A-653 Grade 33.

STANDARD LENGTHS:

Standard lengths of electrical raceway are 10 and 20 feet. The Power-Strut closure strips are available only in 10 feet lengths.

STANDARD FINISH:

Electrical raceway channel is available in a painted green or pre-galvanized finish. All Power-Strut fittings are available in painted green or electro-galvanized finish. Many fittings are available in pre-galvanized.

ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number. See pages 8-9 for finish abbreviations and an example.

LISTINGS:

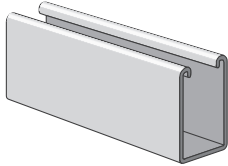
UL File No. E27817 - Channel & Closure Strips
UL File No. E27818 - Fittings
CSA File No. 091312

ELECTRICAL

Finish: Painted Green or Pre-Galvanized Stock Length: 10' & 20' Order By: No. and Finish

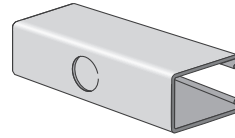


Solid Raceway *



| Part No. | Section Height |
|----------|----------------|
| PS 100 | 3/4" |
| PS 150 | 2 7/16" |
| PS 200 | 1 5/8" |
| PS 210 | 1 5/8" |
| PS 300 | 1 3/8" |
| PS 400 | 1" |
| PS 500 | 1 3/16" |

Knock-Out Raceway *



| Part No. | Section Height |
|------------|----------------|
| PS 100 K06 | 3/4" |
| PS 150 K06 | 2 7/16" |
| PS 200 K06 | 1 5/8" |
| PS 210 K06 | 1 5/8" |
| PS 300 K06 | 1 3/8" |
| PS 400 K06 | 1" |

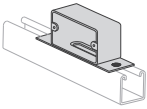
Maximum Number of Wires Types

AVB, FEP, FEBP, RH, RHH, RHW, RUH, RUW, T, TW, THHN, THWN, THW, XHHW

| | Raceway Part Numbers | Wt./ 100 Ft. | Height of Section Inches | Wire Size AWG* | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|--------------------------|----------------|----|----|----|----|
| | | | | 14 | 12 | 10 | 8 | 6 |
| Table A – Maximum number of conductors when raceway is installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 75 C. EXCEPTION: Wire suitable for 60 C may be used when clearance between raceway and fixtures is at least 1/2 inch. | PS 100, PS 100 K06 | 305 | 3/4" | 10 | 10 | 8 | 6 | 4 |
| | PS 150, PS 150 K06 | 247 | 2 7/16" | 10 | 10 | 8 | 6 | 4 |
| | PS 200, PS 200 K06 | 190 | 1 5/8" | 6 | 6 | 5 | 4 | 2 |
| | PS 210, PS 210 K06 | 141 | 1 5/8" | 6 | 6 | 5 | 4 | 2 |
| | PS 300, PS 300 K06 | 170 | 1 3/8" | 5 | 4 | 4 | 3 | 2 |
| | PS 400, PS 400 K06 | 146 | 1" | 4 | 3 | 0 | 0 | 0 |
| | PS 500 | 97 | 1 3/16" | 4 | 3 | 0 | 0 | 0 |
| Table B – Maximum number of conductors when raceway is installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 75 C and clearance between raceway and fixtures is at least 1/8 inch. | PS 100, PS 100 K06 | 305 | 3/4" | 10 | 10 | 10 | 9 | 6 |
| | PS 150, PS 150 K06 | 247 | 2 7/16" | 10 | 10 | 10 | 8 | 6 |
| | PS 200, PS 200 K06 | 190 | 1 5/8" | 10 | 10 | 8 | 6 | 3 |
| | PS 210, PS 210 K06 | 141 | 1 5/8" | 10 | 10 | 8 | 6 | 3 |
| | PS 300, PS 300 K06 | 170 | 1 3/8" | 10 | 10 | 6 | 4 | 2 |
| | PS 400, PS 400 K06 | 146 | 1" | 6 | 6 | 0 | 0 | 0 |
| | PS 500 | 97 | 1 3/16" | 6 | 6 | 0 | 0 | 0 |
| Table C – Maximum number of conductors when raceway is not employed with fixtures OR where the clearance between the raceway and fixtures is greater than 1/2 inch. | PS 100, PS 100 K06 | 305 | 3/4" | 50 | 42 | 35 | 20 | 13 |
| | PS 150, PS 150 K06 | 247 | 2 7/16" | 36 | 29 | 25 | 14 | 9 |
| | PS 200, PS 200 K06 | 190 | 1 5/8" | 22 | 18 | 15 | 9 | 5 |
| | PS 210, PS 210 K06 | 141 | 1 5/8" | 24 | 20 | 17 | 10 | 6 |
| | PS 300, PS 300 K06 | 170 | 1 3/8" | 18 | 15 | 13 | 7 | 5 |
| | PS 400, PS 400 K06 | 146 | 1" | 11 | 9 | 7 | 4 | 3 |
| | PS 500 | 97 | 1 3/16" | 9 | 7 | 6 | 4 | 2 |
| Table D – CSA Certified Maximum number of wires Types R, RW, RWU, T, TW | PS 100, PS 100 K06 | 305 | 3/4" | 10 | 10 | 8 | 6 | 4 |
| | PS 150, PS 150 K06 | 247 | 2 7/16" | 10 | 10 | 8 | 6 | 4 |
| | PS 200, PS 200 K06 | 190 | 1 5/8" | 8 | 8 | 5 | 4 | 3 |
| | PS 210, PS 210 K06 | 141 | 1 5/8" | 8 | 8 | 5 | 4 | 3 |
| | PS 300, PS 300 K06 | 170 | 1 3/8" | 8 | 6 | 5 | 3 | 2 |
| | PS 400, PS 400 K06 | 146 | 1" | 4 | 3 | 0 | 0 | 0 |
| | PS 500 | 97 | 1 3/16" | 4 | 3 | 0 | 0 | 0 |

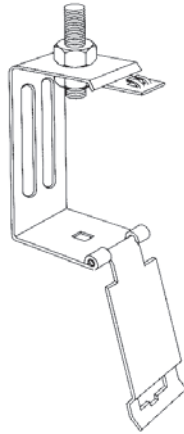
*In all cases, the snap-in-cover, PS 707, is required to complete raceway enclosures.

Also UL Listed: PS 100 2T3, PS 150 2T3, PS 200 2T3, PS 210 2T3, PS 300 2T3, PS 400 2T3, and PS 500 2T3

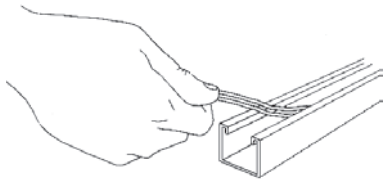


To Install Channel

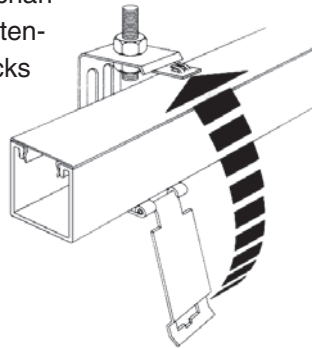
1. Suspend and align PS-2632 Channel hanger from threaded rod at pre-determined level.



2. At floor working level install wiring in channel raceway and add a channel closure strip.

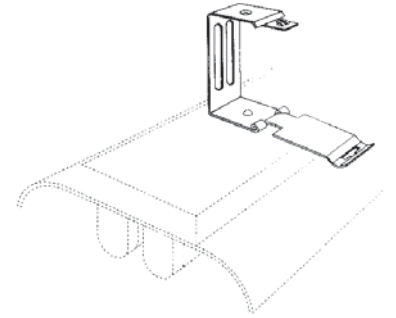


3. Lay raceway into pre-hung channel hanger. Close snap fastening door which securely locks raceway into position.

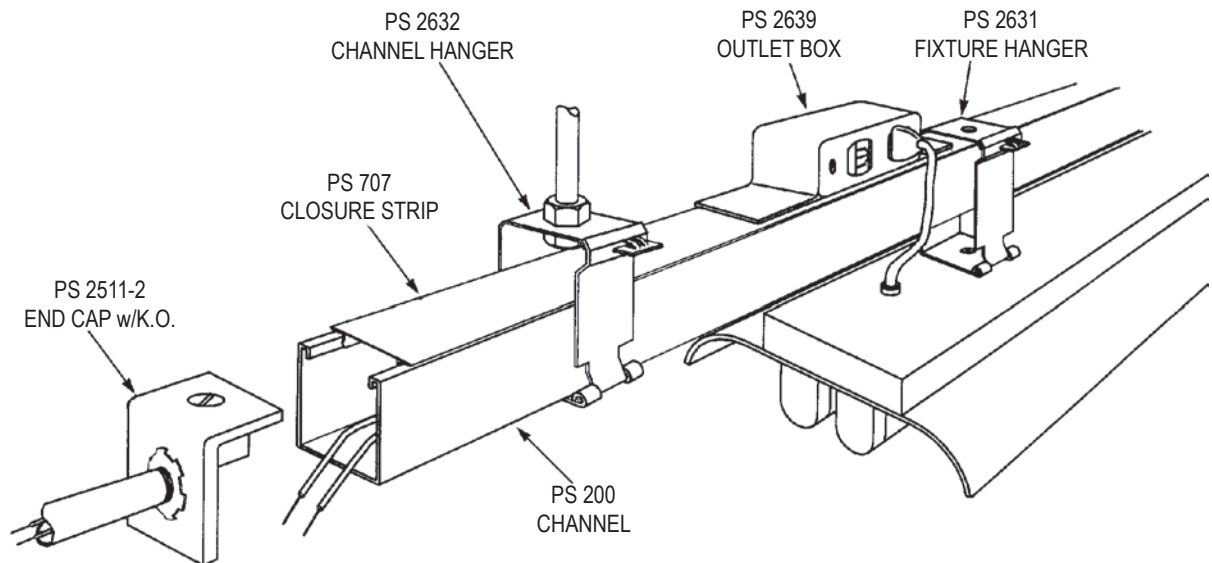
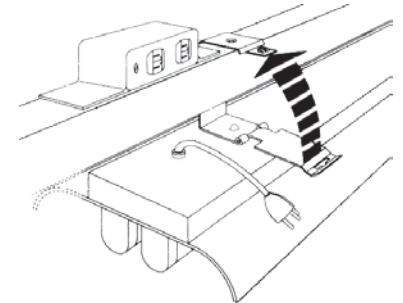


To Install Fluorescent Fixture

1. Attach PS2631 Fixture Hanger to fixture with quick assembly wing-nut leaving door open.



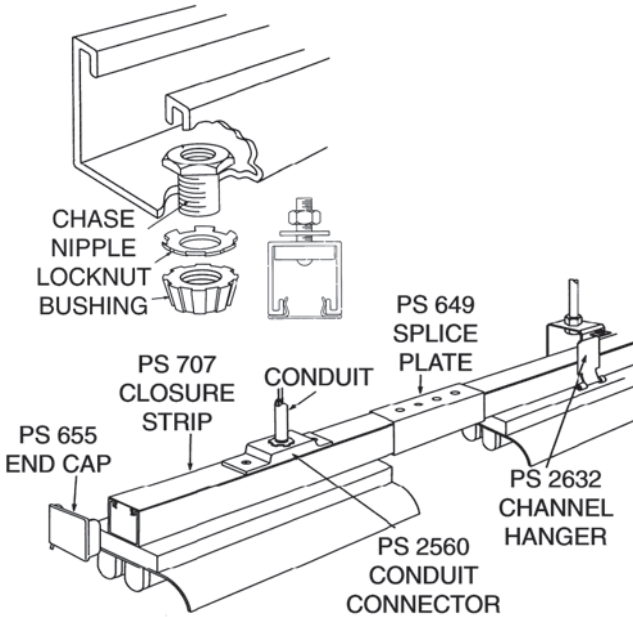
2. Hook fixture over raceway. Close snap fastening door which securely locks fixture into position. Plug in fixture.



Complete installation in minutes. No screw, bolts or cotter pins to lose.

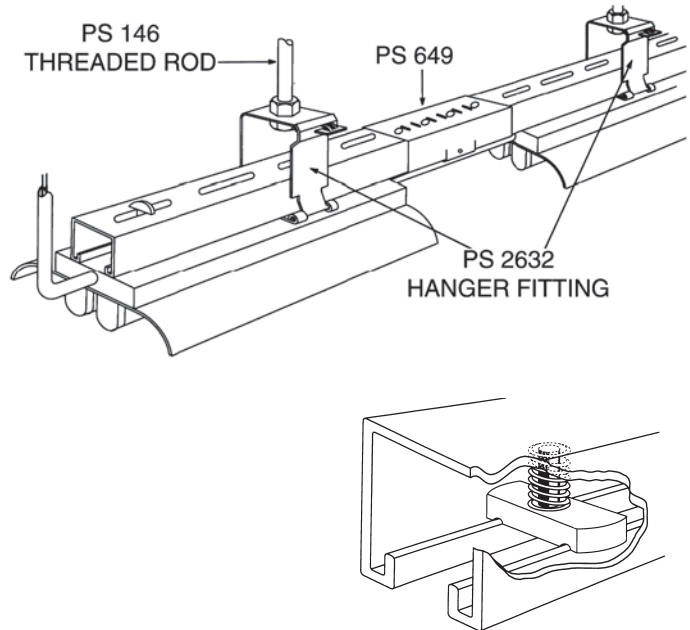
Knock-out Fluorescent Raceway System

Listed by Underwriter's Laboratories, Inc. Fixture is attached to slot-up channel with chase nipple, locknut and bushing through knock-outs in bottom of channel. Conduit connector fitting PS-2560 holds channel and fixture to pipe or rod.



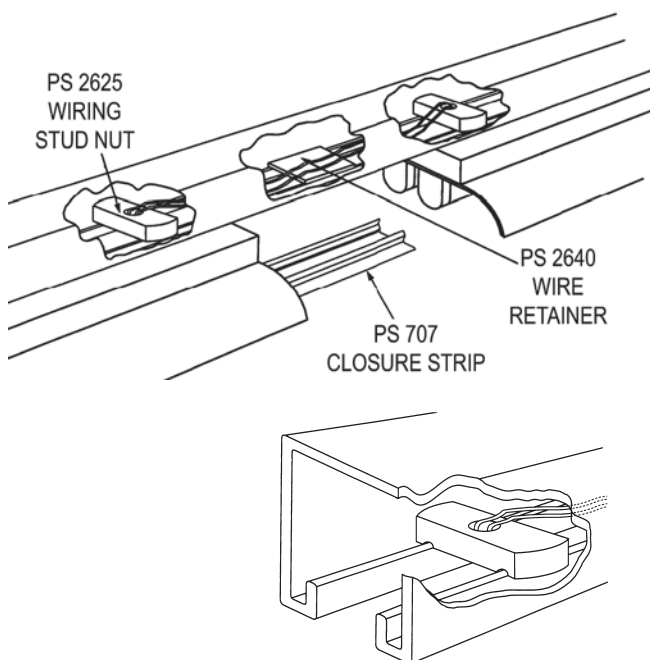
Basic Fluorescent Support System

Slot-down channel holds fixture firmly in place with spring nut and bolt. Fixtures may be added or relocated without changing the basic assembly.



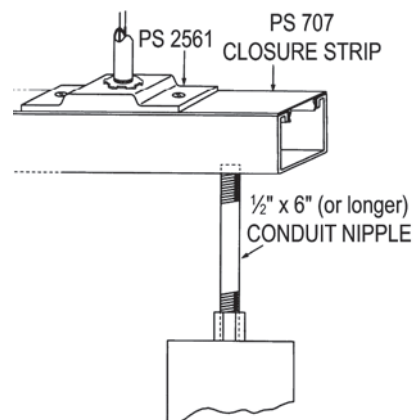
Economy Raceway System Fluorescent

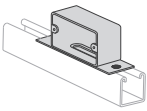
In this slot-down system the circuits run through the fixtures and only enter the channel where there is a break in the fixture run. At that point the fiber wire retainer holds wires in place and snap-in closure strip covers the area.



Knock-out Mercury Vapor Raceway System

Listed by Underwriter's Laboratories, Inc. Fixture is attached to slot-up channel with chase nipple, locknut and bushing through knock-outs in bottom of channel. Conduit connector fitting PS-2561 holds channel and fixture to pipe or rod.

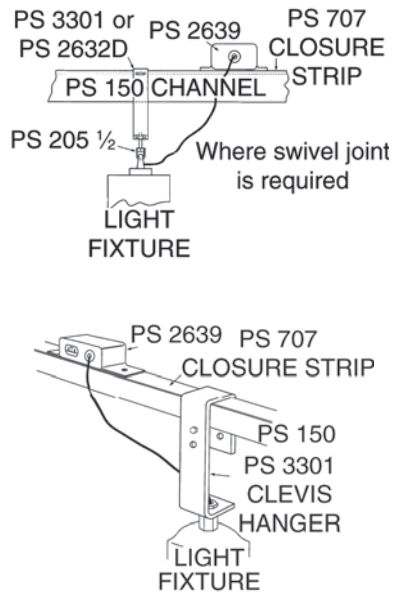




Metal Channel
Fasteners
Fittings
Pipe & Conduit Clamps
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

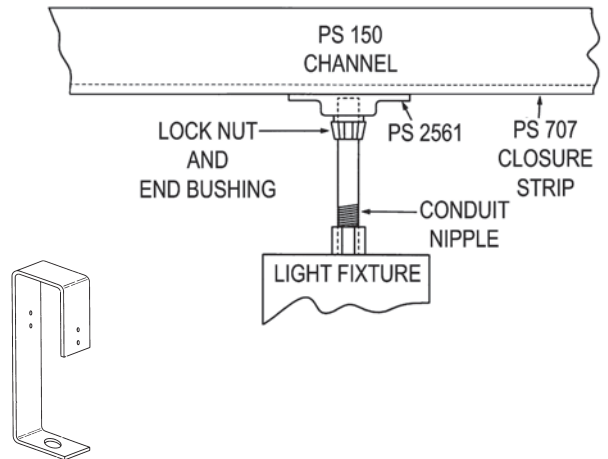
Basic Mercury Vapor Support System
PS 3301 Clevis Hanger for use with PS 150, PS 200

In this slot up or down system, the fixture is supported by PS-3301 clevis hanger which is designed for use with both 1 5/8" and 2 7/16" deep channels.



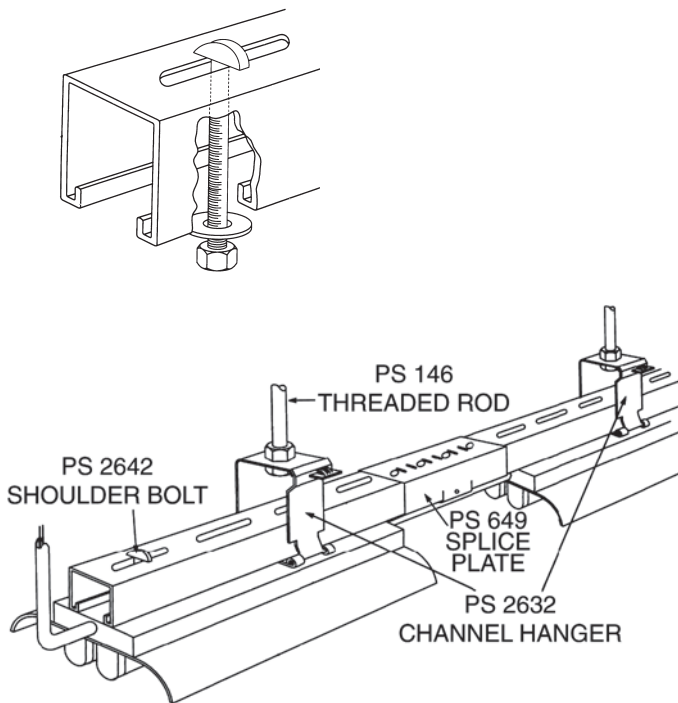
Slot Down Mercury Vapor System

In this slot down system the mercury vapor ballast is wired directly to the system.



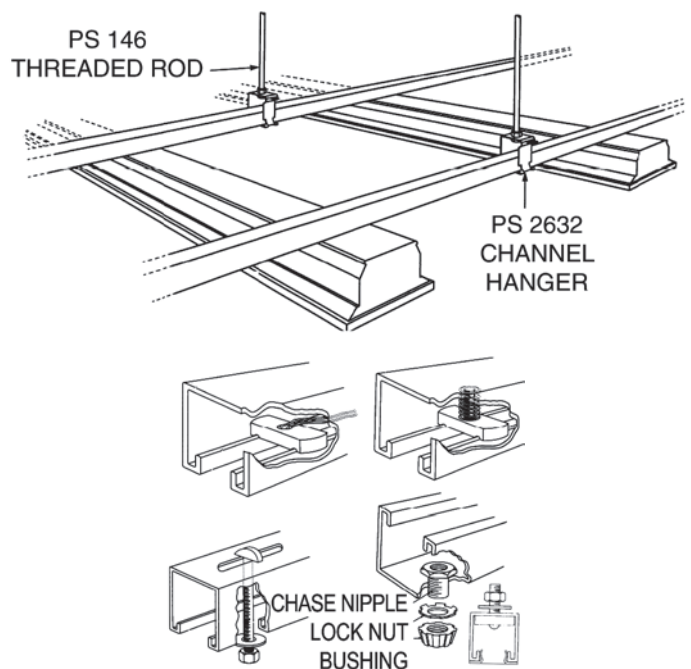
Slotted Support System

This system is designed for maximum ease of attaching fixture through slotted channel with shoulder bolt and provides positive alignment.



Grid System

This system is used where fixtures are hung at right angles to Power-Strut raceways and support channels. Any of the features of the above systems can be adapted to this system. Ideal for egg-crate type drop ceiling installations.

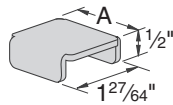


ELECTRICAL

Finish: Painted Green or Pre-Galvanized Stock Length: 10' & 20' Order By: No. and Finish

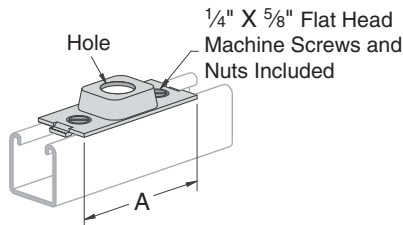


PS 655, PS 656, PS 901, PS 902, PS 930, PS 2580, PS 2585 – Raceway End Caps



| Part No. | Use With | Finish | A | Wt./100 pcs |
|----------|----------|--------|---------|-------------|
| PS 902 | PS 100 | EG | 3 1/4" | 22 |
| PS 2580 | PS 150 | | 2 7/16" | 18 |
| PS 655 | PS 200 | | 1 5/8" | 11 |
| PS 2585 | PS 210 | | 1 5/8" | 12 |
| PS 656 | PS 300 | | 1 3/8" | 15 |
| PS 901 | PS 400 | | 1" | 11 |
| PS 930 | PS 500 | | 1 9/16" | 5 |

PS 2560, PS 2561 – Conduit Connector Fitting

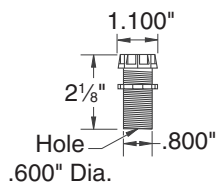


Stock Size: (.060)

Assembly: Connector Fitting, 2 Nuts, 2 Bolts

| Part No. | Use With | A | Hole | Design Load (lbs.) | Wt./100 pcs |
|----------|--------------|--------|---------|--------------------|-------------|
| PS 2560 | 1/2 Conduit" | 4" | 7/8" | 400 | 36 |
| PS 2561 | 3/4 Conduit" | 5 1/8" | 1 3/32" | 200 | 36 |

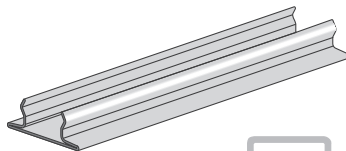
PS 803 – Fixture Wiring Nipple



Assembly: 1/2 x 2" rigid conduit nipple
Bushing Locknut

Weight/100 pcs: 14 lbs.

PS 707, PS 707 P – Raceway Closure Strip



Material/Finish:

PS 707 P - Green and gray
PS 707 - Painted green and pre-galvanized

Stock Size: (.040) GRN, (.040) PGAL

Stock Length: 10 ft.

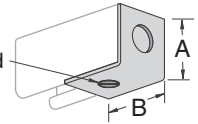
Use With: All 1 5/8" wide channel.

Weight 47 Lbs./ ft.

PS 2511, PS 2581 – End Cap With Knock-Out



1/4" X 5/8" Flat Head Machine Screw and Nut Included

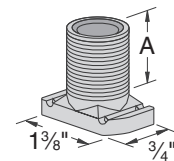


Assembly:

End Cap Part, 1 Machine Screw, 1 Nut
Specify 1/2" or 3/4" knock-out

| Part No. | Use With | Finish | A | B | Wt./100 pcs |
|-----------|----------------|--------|---------|--------|-------------|
| PS 2511-1 | PS 100 | EG | 3 1/4" | 1 3/4" | 3.1 |
| PS 2511-2 | PS 200, PS 210 | | 1 5/8" | 1 3/4" | 2.7 |
| PS 2511-3 | PS 300 | | 1 3/8" | 1 3/4" | 2.6 |
| PS 2581 | PS 150 | | 2 7/16" | 2" | 3.0 |

PS 2625 – Wiring Stud Nut



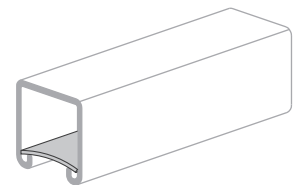
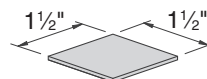
Material: Sintered Iron

Size: 1/2" - 14 Amer. Std, conduit thread

| Part No. | A | Identification No. |
|---------------|---------|--------------------|
| PS 2625-1/2 | 1 5/16" | 121961 |
| PS 2625-2-5/8 | 5/8" | 121960 |

Weight/100 pcs: 10 lbs.

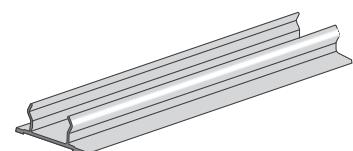
PS 2640 – Wire Retainer



Material: Polypropylene

Weight/100 pcs: .30 lbs.

PS 707 – Aluminum Raceway Closure Strip



Material:

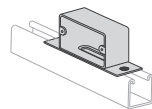
6063-T6 Aluminum, Copper Free, Extruded

Stock Size: (.051)

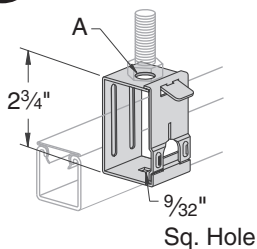
Stock Length: 10 ft.

Use With: All 1 5/8" wide channel

Weight 21 Lbs./ ft.



PS 2632 – Swing Gate Channel Hanger

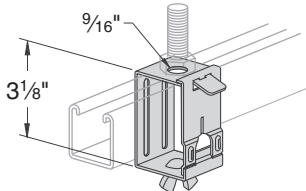


| A Dia. | Use With |
|--------|--------------|
| 9/16" | 1/2" Rod |
| 7/8" | 1/2" Conduit |

Finish: Electro-galvanized
Use With: PS 200, PS 210, PS 300, PS 400 and PS 500
Load Rating: 90 lbs.

Weight/100 pcs: 25 lbs.

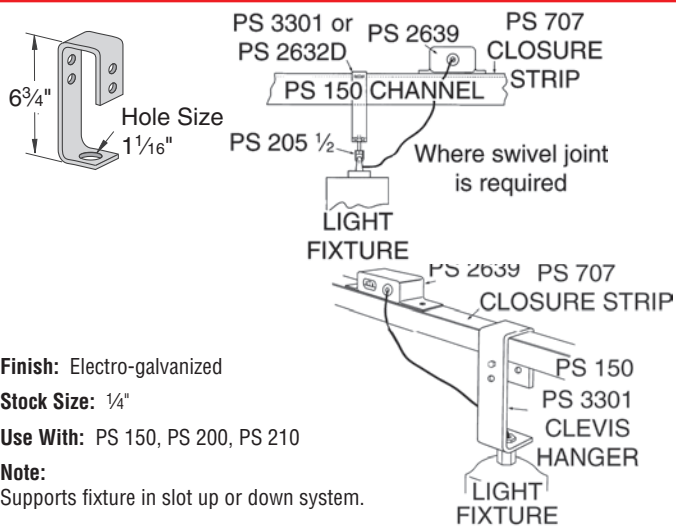
PS 2631 – Swing Gate Fixture Hanger



Use With: PS 200, PS 210, PS 300, PS 400 and PS 500
Load Rating: 90 lbs.
Note: Includes Bolt and Wing Nut for connection to fluorescent fixtures.

Weight/100 pcs: 27 lbs.

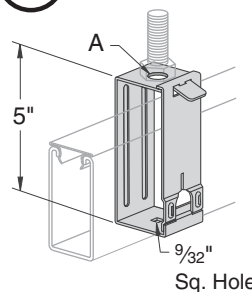
PS 3301 – Mercury Vapor Fixture Hanger



Finish: Electro-galvanized
Stock Size: 1/4"
Use With: PS 150, PS 200, PS 210
Note: Supports fixture in slot up or down system.

Weight/100 pcs: 154 lbs.

PS 2632D – Swing Gate Channel Hanger

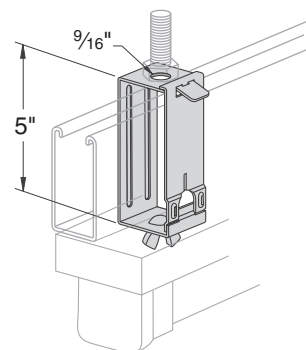


| A Dia. | Use With |
|--------|--------------|
| 9/16" | 1/2" Rod |
| 7/8" | 1/2" Conduit |

Finish: Electro-galvanized
Use With: PS 100, PS 150, PS 200 2T3, and PS 210 2T3
Load Rating: 90 lbs.

Weight/100 pcs: 34 lbs.

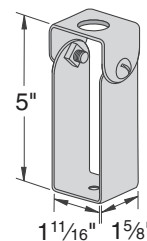
PS 2631D – Swing Gate Fixture Hanger



Use With: PS 100, PS 150, PS 200 2T3, PS 210 2T3
Load Rating: 90 lbs.
Note: Includes Bolt and Wing Nut for connection to fluorescent fixtures.

Weight/100 pcs: 36 lbs.

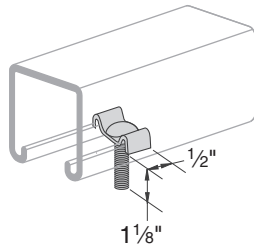
PS 807 – Channel Hanger



Use With: PS 100, PS 150
Load Rating: 150 lbs.
Note: Washers supplied to adapt to 3/8" or 1/2" rod

Weight/100 pcs: 35 lbs.

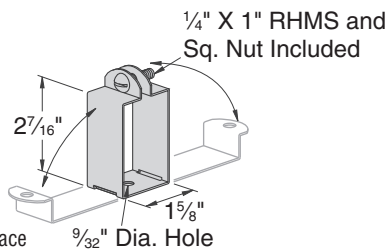
PS 2636 – Fixture Stud Nut



Size: 1/4" x 20 thread, 1 1/4" long

Weight/100 pcs: 5 lbs.

PS 702 – Fluorescent Fixture Hanger



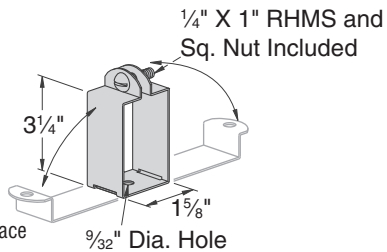
Hanger provides more than 1/2" space between channel and fixtures.

Use hanger for PS 200, PS 210 & PS 300.

Load Rating: 120 lbs.

Weight/100 pcs: 19 lbs.

PS 702 D – Fluorescent Fixture Hanger



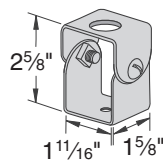
Hanger provides more than 1/2" space between channel and fixtures.

Use hanger for PS 150.

Load Rating: 120 lbs.

Weight/100 pcs: 20 lbs.

PS 659 – Channel Hanger



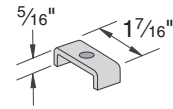
Use With: PS 400, PS 500

Load Rating: 150 lbs.

Note:
Washers supplied to adapt to 3/8" or 1/2" rod

Weight/100 pcs: 28 lbs.

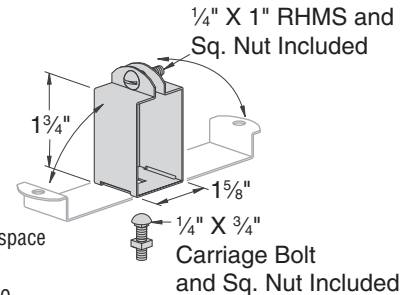
PS 2637 – Fixture Nut



Size: Tapped for 1/4" - 20 thread

Weight/100 pcs: 2 lbs.

PS 703 – Fluorescent Fixture Hanger



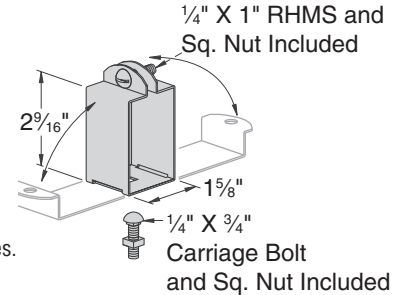
Hanger provides more than 1/8" space between channel and fixtures.

Use hanger for PS 200 & PS 210.

Load Rating: 120 lbs.

Weight/100 pcs: 17 lbs.

PS 703 D – Fluorescent Fixture Hanger



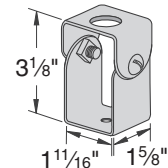
Hanger provides more than 1/8" space between channel and fixtures.

Use hanger for PS 150.

Load Rating: 120 lbs.

Weight/100 pcs: 18 lbs.

PS 658 – Channel Hanger

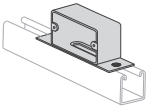


Use With: PS 200, PS 210, PS 300

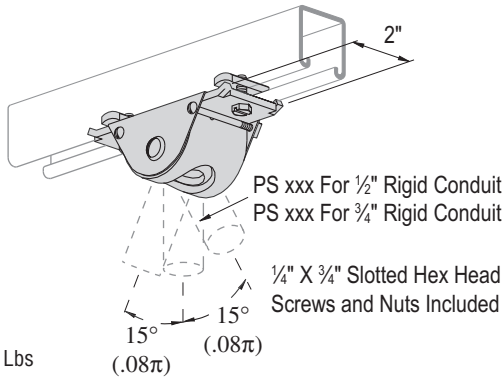
Load Rating: 150 lbs.

Note:
Washers supplied to adapt to 3/8" or 1/2" rod

Weight/100 pcs: 30 lbs.



PS 2621 – Conduit Swing Fitting

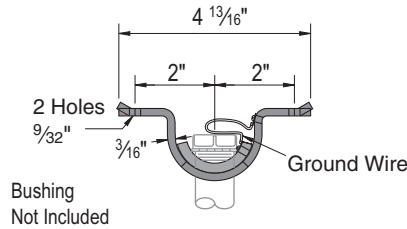


Design Load: 300 Lbs

Note:

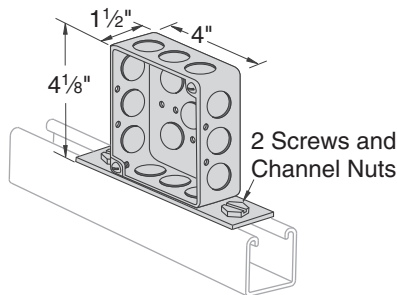
Conduit hanger fittings allow a free swivel of 15° in one direction.

Fitting may be mounted to the slot side of the channel or to the back



Weight/100 pcs: 396 lbs.

PS 2094 – 4" Receptacle Box With Knock-outs

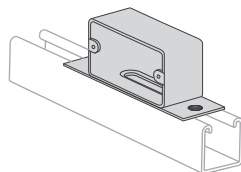


Stock Size: (.075)

Assembly: 1 Box, 2 Screws

Weight/100 pcs: 93 lbs.

PS 2639 – Outlet Box

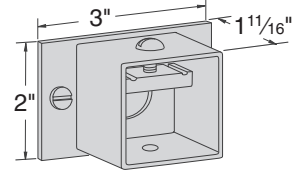
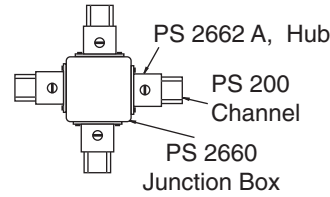


Stock Size: (.075)

Assembly: 1 Box, 2 Screws, 2 Channel Nuts

Weight/100 pcs: 88 lbs.

PS 2662 A – Hub Assembly

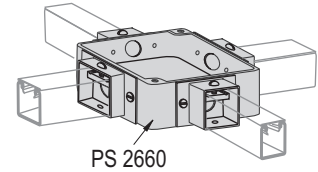


Use With: PS 200, PS 210

Assembly: 1 Hub, 2 Screws, 1 Bolt, 1 Nut

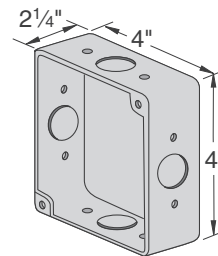
Note: Add hub assemblies to the basic PS 2660 unit assembly to make 1, 2, 3 or 4-way junction box.

Identification No. 122022



Weight/100 pcs: 27 lbs.

PS 2660 – Junction Box

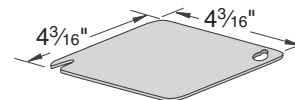


Note:

Add hub assemblies PS 2662-A to make 1, 2, 3 or 4-way junction box.

Weight/100 pcs: 113 lbs.

PS 2661 – Junction Box Cover



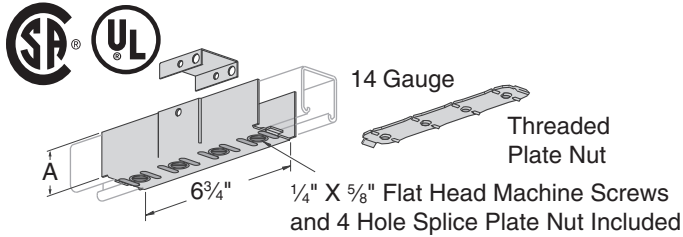
Weight/100 pcs: 30 lbs.

ELECTRICAL

Finish: Painted Green or Pre-Galvanized Stock Length: 10' & 20' Order By: No. and Finish



PS 649, PS 693, PS 694, PS 805, PS 942, PS 2582 – Electrical Joiner



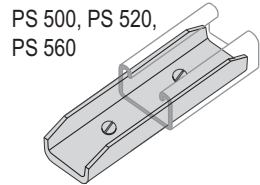
Stock Size: (.060)

Assembly: 1 Splice Plate Clevis (GRN),
1 Tapped Plate (EG), 1 Backplate (GRN),
4 Flat Head Machine Screws (EG).

| Part No. | A | Use With | Finish | Wt./100 pcs |
|----------|---------|----------------|---------|-------------|
| PS 805 | | PS 100 | EG, GRN | 106 |
| PS 2582 | 1 5/8" | PS 150 | EG | 103 |
| PS 649 | | PS 200, PS 210 | EG, GRN | 100 |
| PS 694 | 1 3/8" | PS 300 | | 97 |
| PS 693 | 1 1/16" | PS 400 | | 97 |
| PS 942 | 1 3/16" | PS 500, PS 520 | | 80 |

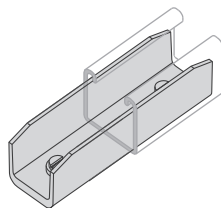
PS 2700 – Inside Strut Joiner

Material: Extruded aluminum
Jam screws included



Weight/100 pcs: 12 lbs.

PS 2800 – Inside Strut Joiner

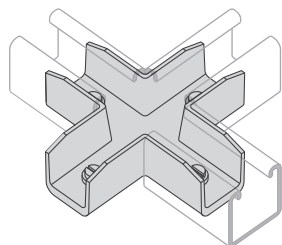


Material: Cast aluminum or electro-galvanized
Jam screws included

Note: Electro-galvanized is not UL Listed

Weight/100 pcs: 20 lbs.

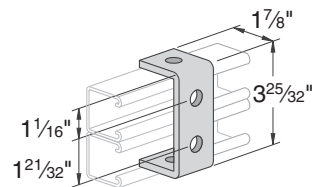
PS 2803 – “Cross” Inside Strut Joiner



Material: Cast aluminum
Jam screws included

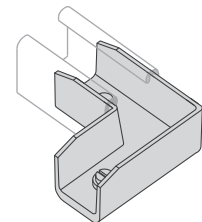
Weight/100 pcs: 45 lbs.

PS 671 – Strut Suspension Member



Weight/100 pcs: 70 lbs.

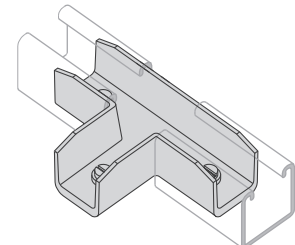
PS 2802 – “Elbow” Inside Strut Joiner



Material: Cast aluminum
Jam screws included

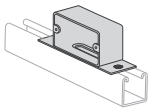
Weight/100 pcs: 27 lbs.

PS 2801 – “T” Inside Strut Joiner

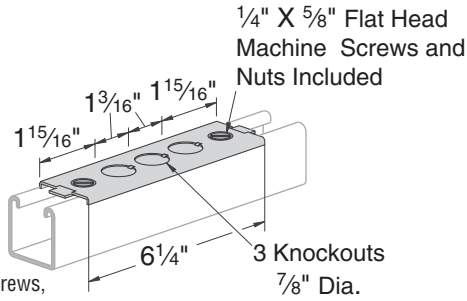


Material: Cast aluminum
Jam screws included

Weight/100 pcs: 35 lbs.



PS 791 – Electrical Box Adapter Plate



Stock Size: (.060)

Assembly: 1 Plate, 2 Screws, 2 Channel Nuts

Weight/100 pcs: 35 lbs.

1/4" X 5/8" Flat Head Machine Screws and Nuts Included

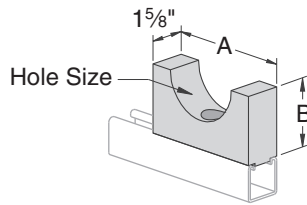
PS 1510 – Maple Cable Saddle

Use With: All 1 5/8" Channel

Assembly:

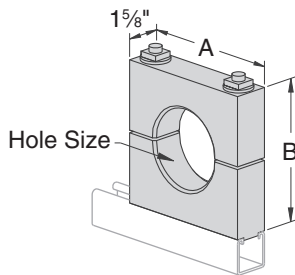
Maple Part, 1 Spring Nut, 1 Flat Head Screw

Note: Specify Cable Diameter



| Cable Size | A | B | Wt./100 pcs |
|-------------|--------|--------|-------------|
| 0" – 1" | 3" | 1 3/4" | 31 |
| 1" – 1 1/2" | 3 1/2" | 2" | 38 |
| 1 1/2" – 2" | 4" | 2 1/4" | 47 |
| 2" – 2 1/2" | 4 1/2" | 2 1/2" | 57 |
| 2 1/2" – 3" | 5" | 2 3/4" | 68 |
| 3" – 3 1/2" | 5 1/2" | 3" | 80 |
| 3 1/2" – 4" | 6" | 3 1/4" | 94 |

PS 1801 – Square Maple Cable Clamps



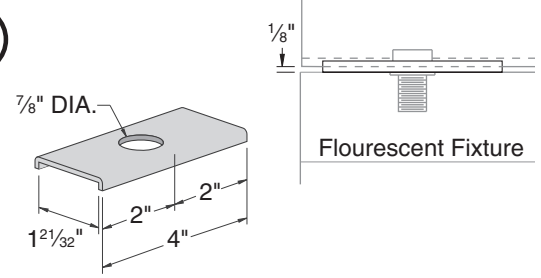
| Inside Diameter Size | A & B | Wt./100 pcs |
|----------------------|--------|-------------|
| 0" – 1" | 3 1/2" | 84 |
| 1" – 1 1/2" | 4" | 102 |
| 1 1/2" – 2" | 4 1/2" | 121 |
| 2" – 2 1/2" | 5 1/2" | 165 |
| 2 1/2" – 3" | 6" | 189 |
| 3" – 3 1/2" | 6 1/2" | 215 |
| 3 1/2" – 4" | 7" | 243 |

Use With: All 1 5/8" Wide Channels.

Assembly: Maple Part, 2 Stud Bolts, 2 Washers, 2 Spring Nuts, 2 Square Nuts

Note: Special maple clamps can be made to order. Specify Cable Diameter.

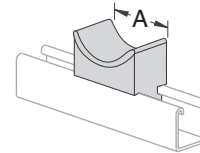
PS 2627 – Spacer Clevis



Material: 12 ga.

Weight/100 pcs: 24 lbs.

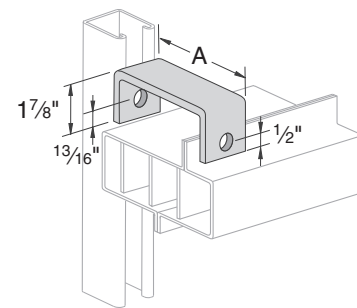
PS 1500 – Porcelain Cable Rack Insulators



| Cable Diameter | A | Wt./100 pcs |
|----------------|----|-------------|
| 3" | 3" | 75 |
| 4 1/2" | 4" | 95 |

Use With: All 1 5/8" channel

PS 760 – Bus Duct Connection Clevis

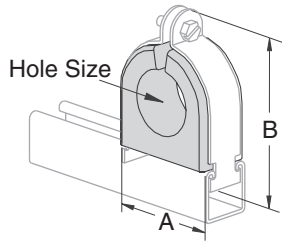


| Part No. | Outside Width | Inside Width | Wt./100 pcs |
|----------|---------------|--------------|-------------|
| PS 760-1 | 2 13/32" | 1 29/32" | 57 |
| PS 760-2 | 3 25/32" | 3 9/32" | 73 |
| PS 760-3 | 4 3/4" | 4 1/4" | 84 |

Weight/100 pcs: 93 lbs.

Finish: Painted Green or Pre-Galvanized Stock Length: 10' & 20' Order By: No. and Finish

PS 722 – Porce -A- Clamp™



Porce -A- Clamp™

- Non-Breakable Material
- Chemical and UV Resistant
- U.L. Listed
- Electro-galvanized or Stainless Steel Clamps
- Tapered Flange to Protect Cable
- Dielectric Strength 640 Volts Per Mil.
- One Piece
- Replaces Porcelain & Maple Cable Clamp
- For use in accordance with National Electrical Code ANSI/NFPA 70.

Replaces the two piece PS 723 Porcelain Cable Clamp

Includes: Everdur Hardware

Patents Pending

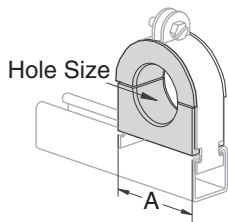
Strap Material: Electro-galvanized steel or stainless steel

Use With: All 1 5/8" channel

Temperature Range: -50°F to +275°F

| Part No. | Hole Size | A | B | Wt./100 pcs |
|--------------|-----------|-------|--------|-------------|
| PS722 3/8" | 3/8" | 1.12" | 1.82" | 25 |
| PS722 1/2" | 1/2" | | | |
| PS722 5/8" | 5/8" | | | |
| PS722 3/4" | 3/4" | 1.62" | 2.34" | 37 |
| PS722 7/8" | 7/8" | | | |
| PS722 1" | 1" | | | |
| PS722 1 1/8" | 1 1/8" | 2.12" | 2.86" | 58 |
| PS722 1 1/4" | 1 1/4" | | | |
| PS722 1 3/8" | 1 3/8" | | | |
| PS722 1 1/2" | 1 1/2" | 2.62" | 3.50" | 76 |
| PS722 1 5/8" | 1 5/8" | | | |
| PS722 1 3/4" | 1 3/4" | | | |
| PS722 1 7/8" | 1 7/8" | 3.12" | 4.05" | 90 |
| PS722 2" | 2" | | | |
| PS722 2 1/8" | 2 1/8" | | | |
| PS722 2 1/4" | 2 1/4" | 3.62" | 4.75" | 109 |
| PS722 2 3/8" | 2 3/8" | | | |
| PS722 2 1/2" | 2 1/2" | | | |
| PS722 2 5/8" | 2 5/8" | 4.12" | 5.125" | 130 |
| PS722 2 3/4" | 2 3/4" | | | |
| PS722 2 7/8" | 2 7/8" | | | |
| PS722 3" | 3" | 4.62" | 5.54" | 160 |
| PS722 3 1/8" | 3 1/8" | | | |
| PS722 3 1/4" | 3 1/4" | | | |
| PS722 3 3/8" | 3 3/8" | 5.00" | 5.92" | 160 |
| PS722 3 1/2" | 3 1/2" | | | |
| PS722 3 5/8" | 3 5/8" | | | |
| PS722 3 3/4" | 3 3/4" | 5.00" | 5.92" | 160 |
| PS722 3 7/8" | 3 7/8" | | | |
| PS722 4" | 4" | | | |
| PS722 4 1/8" | 4 1/8" | 5.00" | 5.92" | 160 |
| PS722 4 1/4" | 4 1/4" | | | |
| PS722 4 3/8" | 4 3/8" | | | |
| PS722 4 1/2" | 4 1/2" | | | |

PS 1610 – Maple Cable Clamp

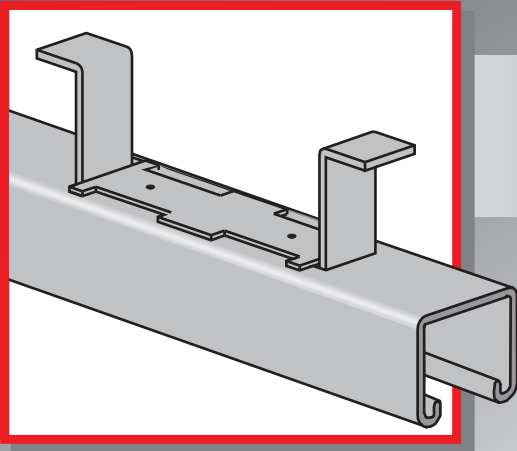


Use With: All 1 5/8" Wide Channel

Assembly: Maple Part, Pipe Clamp Assembly

Note: Specify Cable Diameter

| Inside Diameter | A | PS 1100 Size | Wt./100 pcs |
|-----------------|----------|--------------|-------------|
| 0 to 5/8" | 1 5/16" | 1" | 24 |
| 1/2 to 1" | 1 15/16" | 1 1/2" | 42 |
| 3/4 to 1 1/2" | 2 3/8" | 2" | 54 |
| 1 1/4 to 1 3/4" | 3 1/2" | 3" | 65 |
| 1 1/2 to 2 1/4" | 4" | 3 1/2" | 84 |
| 2 to 2 1/2" | 4 1/2" | 4" | 107 |
| 2 1/4 to 3" | 5 9/16" | 5" | 123 |
| 3 to 4" | 6 5/8" | 6" | 163 |



CONCRETE INSERTS

A selection of heavy-duty to light-duty “continuous” and “spot” concrete inserts is available for use in pre-cast, pre-stressed or poured-in-place concrete floors, walls or ceilings.

MATERIAL:

Power-Strut continuous slotted concrete inserts are cold formed from structural quality strip steel.

STANDARD LENGTHS:

Standard lengths are 10 or 20 feet. Non-standard lengths from 3 inches to 20 feet are also available.

STANDARD FINISH:

Power-Strut continuous-slotted concrete inserts are available in plain or pre-galvanized finishes. Closure strips (CS) are made of plastic and end caps (EC) are pre-galvanized.

ORDERING INFORMATION:

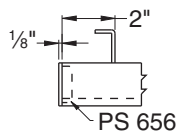
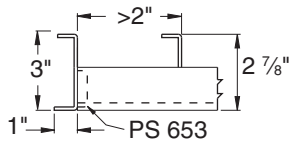
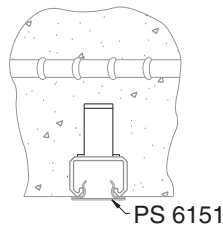
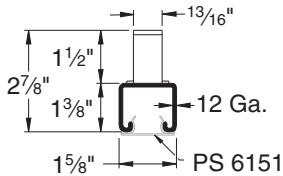
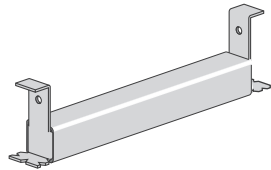
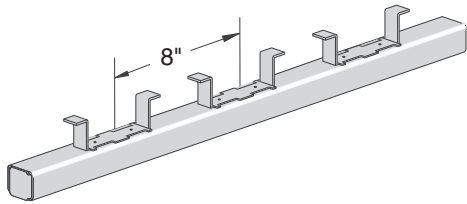
When ordering, add the length or size and finish to the part number. See pages 8-9 for finish abbreviations and an example.

CONCRETE INSERTS



Finish: Plain, Hot-Dipped Galvanized, or Pregalvanized **Stock Length:** 20', Other lengths made to order
Stock Thickness: .105 (12 ga.) **Order By:** No., Size, Length and Finish

PS 349 – Continuous Concrete Insert (1⁵/₈" x 1³/₈")



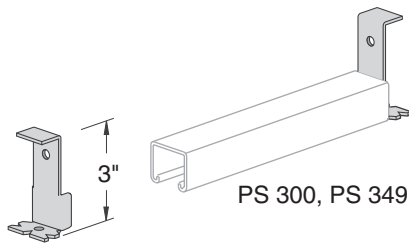
Choice of end cap is based on the distance from the end of the insert to the first anchor as shown below.

Furnished with steel end caps and plastic closure strips installed

- Use channel nuts designed for PS 300 Channel.
- Nail or anchor the inserts to forms every 16" to 24"

| Part No. | End Cap | Wt./100 pcs - PLN | Load Data* | |
|-------------------|-------------|-------------------|----------------|----------------------------------------------------------------|
| PS 349 3" CS/EC | PS 653 | 72 | 500 lbs. | |
| PS 349 4" CS/EC | | 87 | 600 lbs. | |
| PS 349 6" CS/EC | | 117 | 800 lbs. | |
| PS 349 8" CS/EC | | 147 | 1,200 lbs. | |
| PS 349 1' CS/EC | | 194 | 2,000 lbs./ft. | |
| PS 349 1'4" CS/EC | PS 656 | 253 | | |
| PS 349 1'8" CS/EC | PS 653 | 312 | | |
| PS 349 2' CS/EC | PS 656 | 371 | | |
| PS 349 2'8" CS/EC | PS 656 | 490 | | |
| PS 349 3' CS/EC | PS 653 | 549 | | |
| PS 349 4' CS/EC | PS 656 | 727 | | |
| PS 349 5' CS/EC | PS 653 | 905 | | |
| PS 349 6' CS/EC | PS 656 | 1,082 | | |
| PS 349 7' CS/EC | PS 653 | 1,260 | | |
| PS 349 8' CS/EC | PS 656 | 1,438 | | |
| PS 349 9' CS/EC | PS 653 | 1,615 | | |
| PS 349 10' CS/EC | PS 656 | 1,793 | | |
| PS 349 12' CS/EC | | 2,148 | | |
| PS 349 14' CS/EC | | 2,504 | | |
| PS 349 16' CS/EC | | 2,859 | | |
| PS 349 18' CS/EC | | 3,215 | | |
| PS 349 20' CS/EC | | 3,570 | | |
| PS 349 10' W/O | Insert Only | 1,777 | | *uniform recommended loading on inserts in 3,000 psi concrete. |
| PS 349 20' W/O | | 3,554 | | |

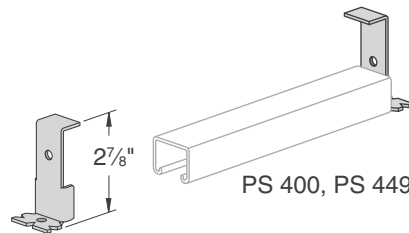
PS 653 – Type 'B' End Cap



Finish: Pre-galvanized

Weight/100 pcs: 14 lbs.

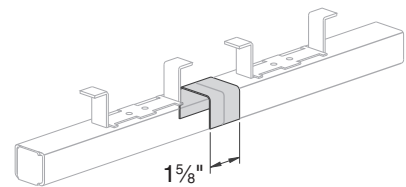
PS 654 – Type 'B' End Cap



Finish: Pre-galvanized

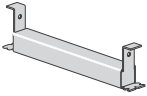
Weight/100 pcs: 12 lbs.

PS 1154 – Splice Connection



Use With: PS 349

Weight/100 pcs: 10 lbs.



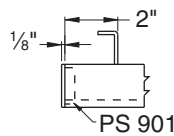
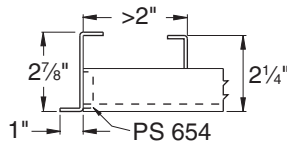
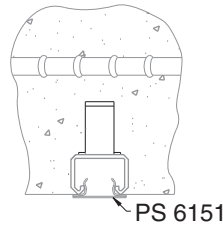
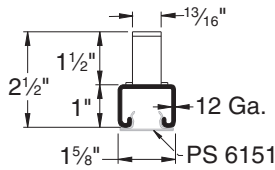
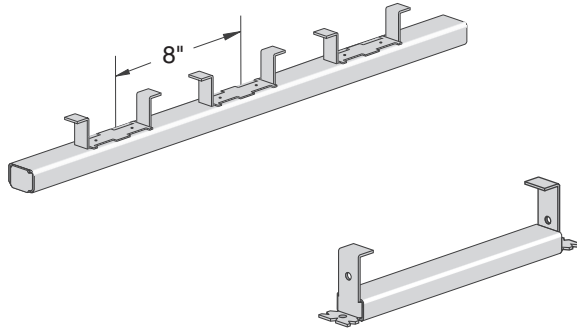
Finish: Plain, Hot-Dipped Galvanized, or Pregalvanized Stock Length: 20', Other lengths made to order
 Stock Thickness: .105 (12 ga.) Order By: No., Size, Length and Finish

PS 449 – Continuous Concrete Insert (1 5/8" x 1")

Choice of end cap is based on the distance from the end of the insert to the first anchor as shown below.

Furnished with steel end caps and plastic closure strips installed

- Use channel nuts designed for PS 400 Channel.
- Nail or anchor the inserts to forms every 16" to 24"



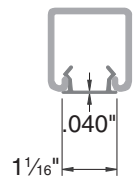
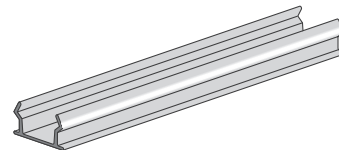
| Part No. | End Cap | Wt./100 pcs - PLN | Load Data* | |
|-------------------|-------------|-------------------|----------------|----------------------------------------------------------------|
| PS 449 3" CS/EC | PS 654 | 62 | 500 lbs | |
| PS 449 4" CS/EC | | 74 | 600 lbs. | |
| PS 449 6" CS/EC | | 99 | 800 lbs. | |
| PS 449 8" CS/EC | | 124 | 1,000 lbs. | |
| PS 449 1' CS/EC | | 163 | | |
| PS 449 1'4" CS/EC | PS 901 | 213 | 1,500 lbs./ft. | |
| PS 449 1'8" CS/EC | PS 654 | 263 | | |
| PS 449 2' CS/EC | PS 901 | 313 | | |
| PS 449 2'8" CS/EC | | 414 | | |
| PS 449 3' CS/EC | PS 654 | 464 | | |
| PS 449 4' CS/EC | PS 901 | 615 | | |
| PS 449 5' CS/EC | PS 654 | 766 | | |
| PS 449 6' CS/EC | PS 901 | 916 | | |
| PS 449 7' CS/EC | PS 654 | 1,079 | | |
| PS 449 8' CS/EC | PS 901 | 1,218 | | |
| PS 449 9' CS/EC | PS 654 | 1,368 | | |
| PS 449 10' CS/EC | PS 901 | 1,519 | | |
| PS 449 12' CS/EC | | 1,820 | | |
| PS 449 14' CS/EC | | 2,122 | | |
| PS 449 16' CS/EC | | 2,423 | | |
| PS 449 18' CS/EC | | 2,725 | | |
| PS 449 20' CS/EC | | 3,026 | | |
| PS 449 10' W/O | Insert Only | 1,507 | | *uniform recommended loading on inserts in 3,000 psi concrete. |
| PS 449 20' W/O | | 3,014 | | |

PS 656, PS 901 – Type 'A' End Cap



| Part No. | Use With Insert | Finish | Wt./100 pcs |
|----------|-----------------|--------|-------------|
| PS 656 | PS 349 | PGAL | 8 |
| PS 901 | PS 449 | | 6 |

PS 6151 – Plastic Closure Strip



Material: Plastic

Stock Length: 10 ft.

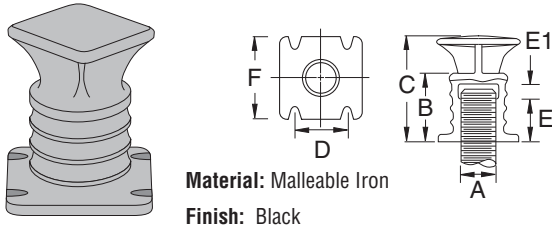
Use With: All 1 5/8" channel and inserts to prevent concrete seepage

Weight/100 pcs: 47 lbs.

CONCRETE INSERTS



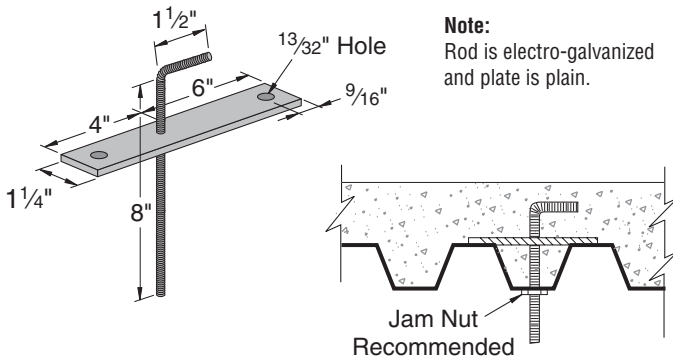
PS 152 – Screw Concrete Insert



Material: Malleable Iron
Finish: Black

| Part No. | Rod Size "A" | B | C | D | E | E1 | F | Load Rating | Wt./100 pcs |
|-------------|--------------|---------|--------|--------|--------|-------|----|-------------|-------------|
| PS 152 3/8" | 3/8" | 1 1/32" | | | 1/2" | | | 600 | 31 |
| PS 152 1/2" | 1/2" | 2 1/4" | | 1" | 5/8" | | | 1,130 | 32 |
| PS 152 5/8" | 5/8" | 1 7/32" | | | 5/8" | | | 1,260 | 37 |
| PS 152 3/4" | 3/4" | 1 5/8" | 2 1/2" | 1 1/4" | 15/16" | 7/16" | 2" | 2,500 | 64 |
| PS 152 7/8" | 7/8" | - | - | - | - | - | - | | 71 |

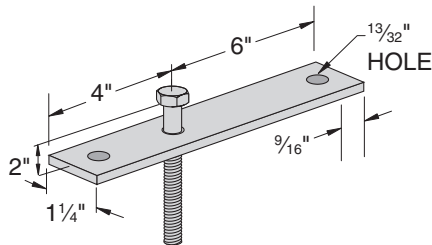
PS 680 – Concrete Deck Insert



Note:
Rod is electro-galvanized and plate is plain.

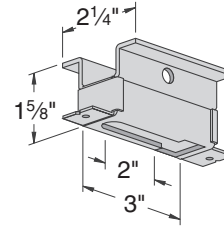
| Part No. | Load Rating | Wt./100 pcs |
|-------------|-------------|-------------|
| PS 680-3/8" | 610 | 86 |
| PS 680-1/2" | 1,130 | 105 |
| PS 680-5/8" | 1,810 | 130 |

PS 3700 – Concrete Deck Insert



| Part No. | Tension Load Rating/Lbs | Shear Load Rating/Lbs | Wt./100 pcs |
|--------------|-------------------------|-----------------------|-------------|
| PS 3700-3/8" | 850 | 600 | 89 |
| PS 3700-1/2" | 1,380 | 1,000 | 111 |
| PS 3700-3/8" | 1,920 | 1,760 | 141 |

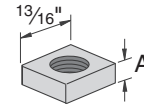
PS 285 – Light Weight Concrete Insert



Finish: Plain or Electro-galvanized

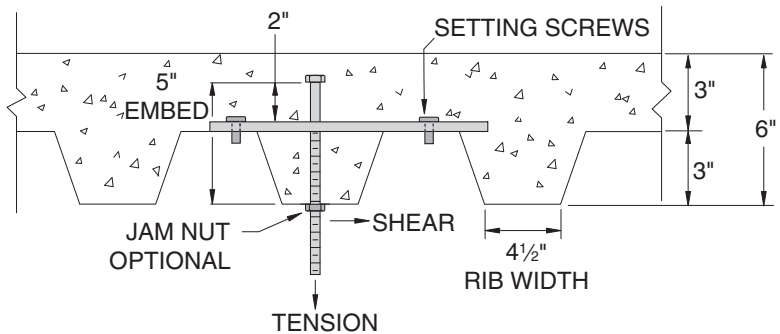
| Part No. | Rod Size | Load Rating | Wt./100 pcs |
|-------------|----------|-------------|-------------|
| PS 285 1/4" | 1/4" | 230 | 46 |
| PS 285 3/8" | 3/8" | 400 | 49 |
| PS 285 1/2" | 1/2" | | 49 |

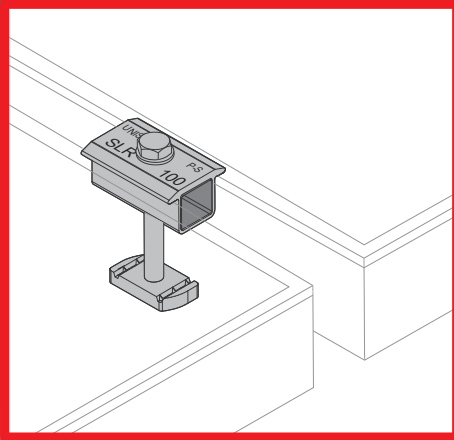
PS 285 N – Concrete Insert Nut (for use with PS 285)



Finish: Plain or Electro-galvanized

| Part No. | Rod Size | A | Wt./100 pcs |
|----------|----------|-------|-------------|
| PS 285 N | 1/4" | 5/16" | 6 |
| PS 285 N | 3/8" | | 5 |
| PS 285 N | 1/2" | 7/16" | 6 |
| PS 285 N | 5/8" | | 7 |





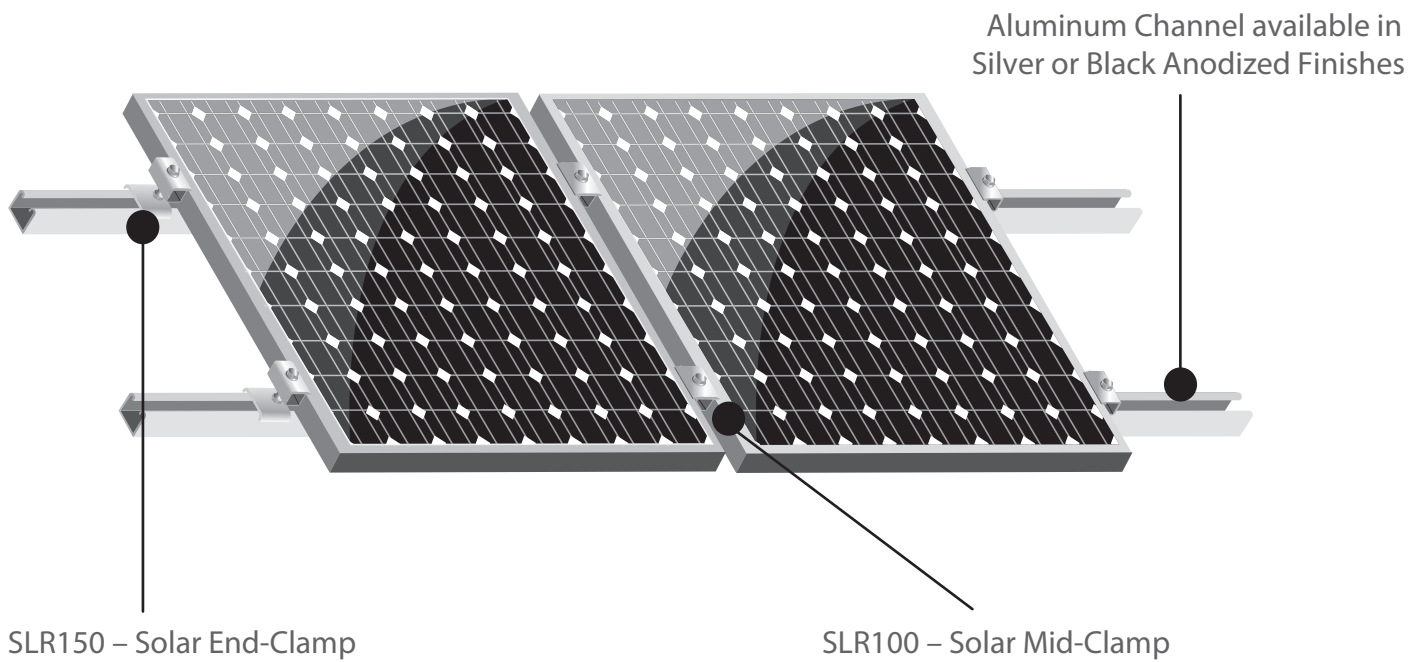
SOLAR COMPONENTS

Power-Strut® represents a line of steel, aluminum, and fiberglass strut and accessories used extensively in electrical infrastructure support.

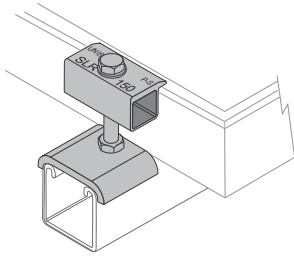
Power-Strut is available in a range of corrosion inhibiting finishes making it a prime choice in today's marketplace. The Power-Strut system is infinitely adjustable for a multitude of configurations and uses.

The solar components shown in this section allow you to shape an effective solution for mounting solar panels that fits your exact needs.

Typical Solar Installation

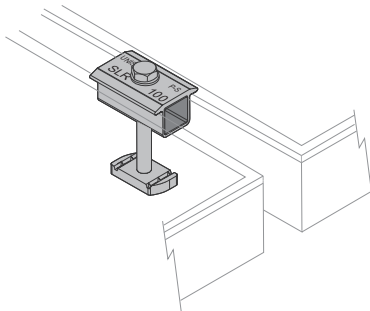


SLR150 - *Solar End Clamp



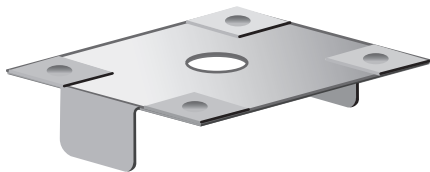
- End-clamp design for use with strut based racking system
- Patent-pending end-stop feature allows use with vertical strut
- Meets uplift loads of 350 lbs.
- ***Patent-pending**

SLR100 - Solar Mid-Clamp

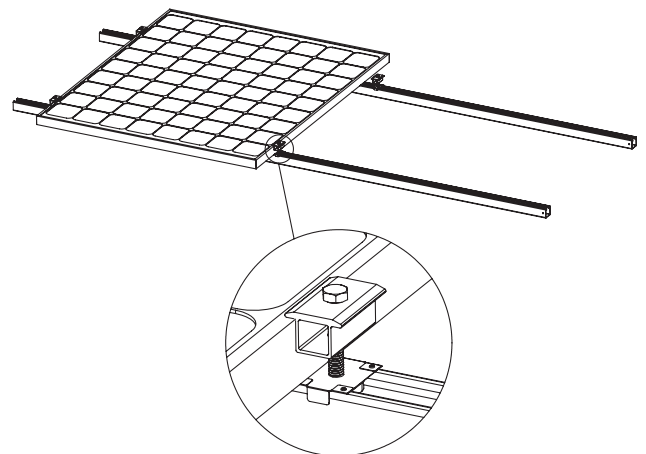


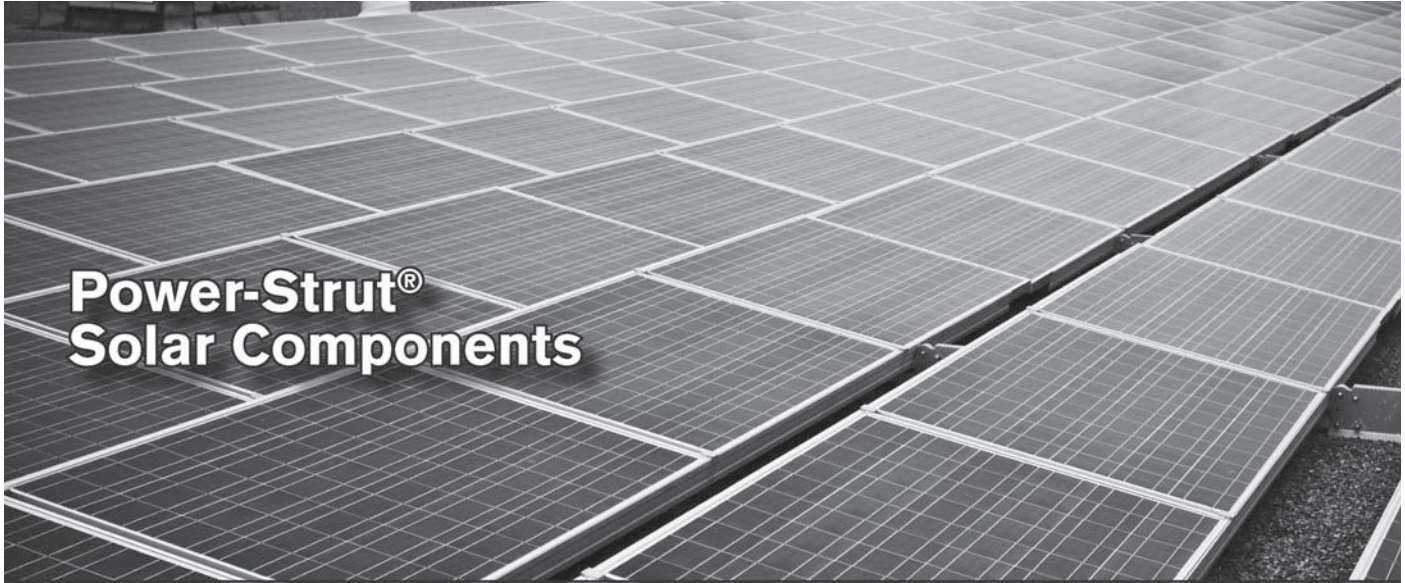
- Mid-clamp design for use with strut based racking system
- Provides .8" (21 mm) panel spacing
- Meets spacing requirements of WEEB-WMC
- Meets uplift loads of 350 lbs.

WEEB - WMC - Electrical Equipment Bonding Washer



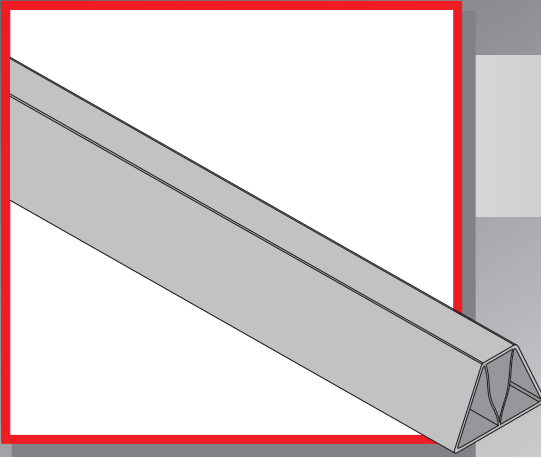
- Patented design features stainless steel teeth that pierce into anodized aluminum, providing a gas tight connection which prevents oxidation
- Meets ANSI/UL467 requirements for bonding/grounding systems
- Quick installation that is safe, reliable and consistent





KEY ADVANTAGES

- The market's only specific panel mounting components made exclusively for use with Power-Strut.
- Simple design used by the industry for a variety of installation methods and applications.
- Stainless steel hardware included with all solar clamps.
- Available in Black or Silver Anodized (Material AA-6063-T6) for corrosion protection and sleek appearance.
- Best fit with Power-Strut channel to create less penetration, and superior slip resistance.
- Designed for maximum loads up to 90 miles per hour.
- Available and supported by Power-Strut's national network of distributors.



UNIPIER®

Pipe supports to support roof mounted gas pipes, electrical conduit, solar piping and other mechanical piping. Unique design absorbs thermal expansion and contraction of pipes thus preventing damage to the roof membrane.

MATERIAL:

Support Base is made of polycarbonate resin or hot-dipped galvanized or stainless steel as indicated for the specific base. The base is gently rounded to prevent gouging the roof membrane. Carbon black is added to the polycarbonate resin for UV resistance and protection.

Pipe Roller is made of polycarbonate, or steel as indicated for the specific part.

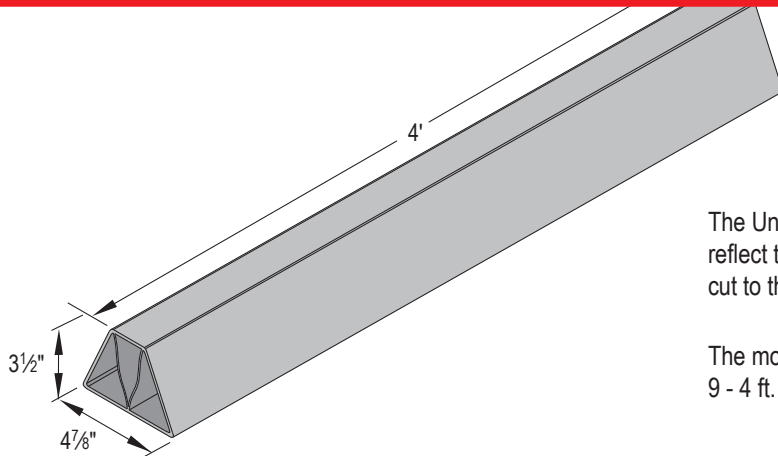
Other Metal Parts are made of hot-dipped galvanized or stainless steel.

Duct Supports are made of hot-dipped galvanized Power-Strut channel

UNIPIER® - Sleeper Support



RSS4 - Rooftop Sleeper Support



The Unipier rooftop sleeper is the first rooftop support that is white to reflect the sun's UV rays. It is cost-effective, lightweight and can be cut to the desired length while on the job site.

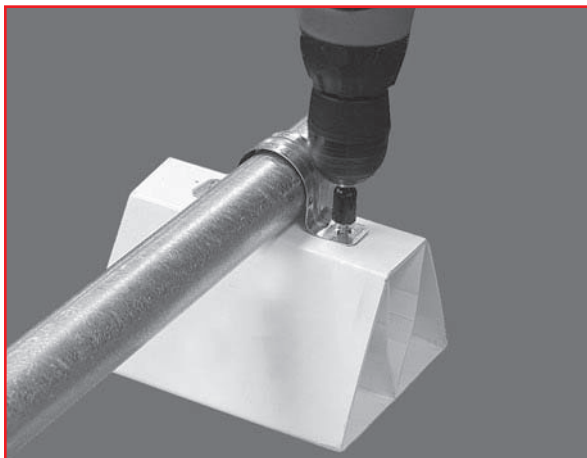
The model RSS4 is conveniently packaged in shrink wrap bundles of 9 - 4 ft. supports that can be easily carried to the rooftop.



The Unipier sleeper support is lightweight, just 4 lbs./4 ft. section, so it is easily transported to the job site in bundles of 9 supports.

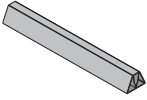


The Unipier sleeper support can be conveniently cut to lengths of 6" or longer right on the job site.

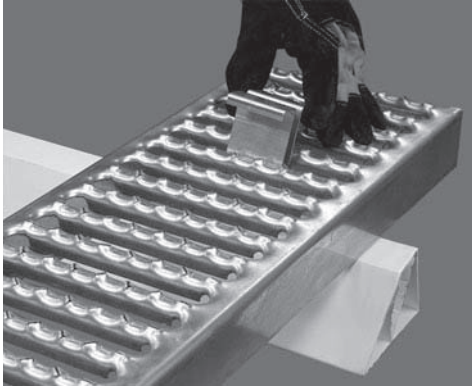


TEK screws or other self tapping fasteners are used to attach conduit supports, pipe clamps or other clamping fittings.

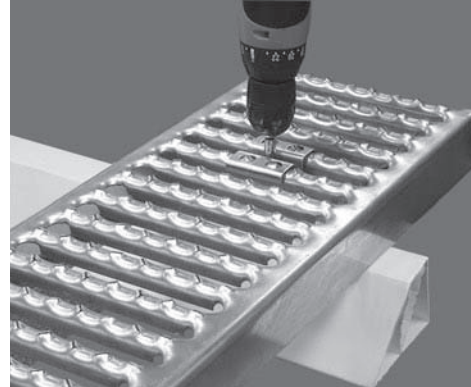
NOTE: Load not to exceed 50 lbs./6" length
Part Number: RSS4



The Sleeper Support is not restricted to just pipe clamps. It makes a perfect companion for the Roofwalk[®] Rooftop Walkways.

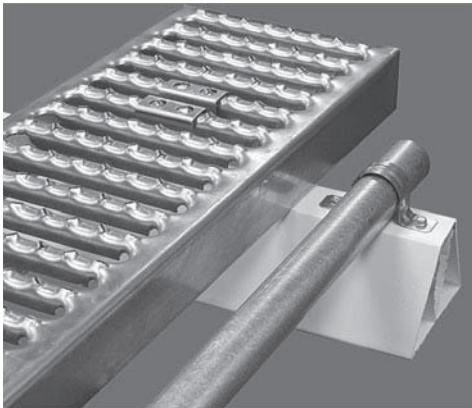


Position the grating on the Unipier sleeper support and insert the appropriate size hold down clip (G639, G607, or G620).

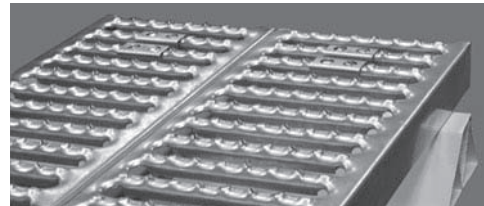


Use a TEK screw to attach the hold down clip.

That's all that is required!

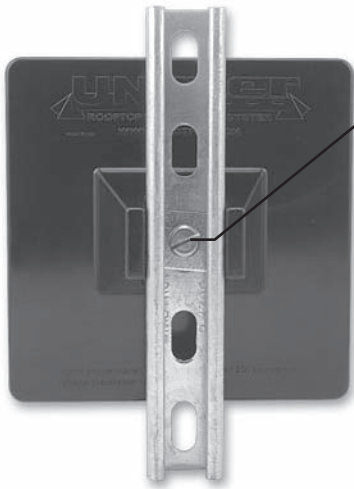


You can even use the Unipier support for multiple tasks. Here we have Unistrut Roofwalks[®] Rooftop Walkways and a piece of electrical conduit attached to the sleeper.



Grating can also be used to construct a platform for heavy equipment or even as a workstand.

UP-SPSS Style Support



- Align Center hole of P4100T on base.
- Place square washer inside P4100T.
- Insert screw & torque to 19 ft./lbs.

| Part Number | Qty. Unipier Bases | Supporting Channel | |
|--------------|--------------------|--------------------|------------------------------------|
| | | Qty. | Description |
| UP-BK | 4 | 0 | Base Only |
| UP-SPSS-6 HG | 4 | 4 | 6" - P4100T HG (up to 3 1/2" Pipe) |
| UP-SPSS-10HG | 4 | 4 | 10" - P4100T HG (4" to 8" Pipe) |

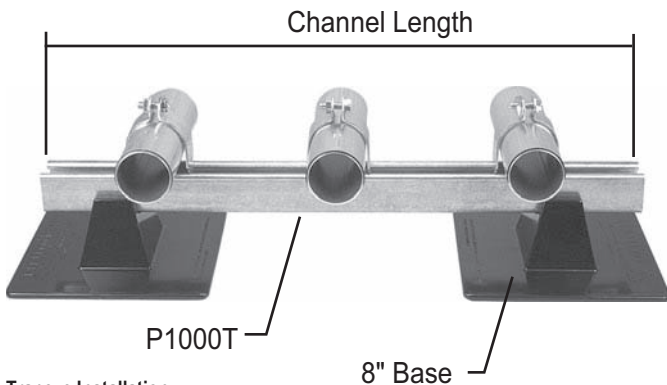
Note:

1. The maximum uniform load on P1000T is 400 lbs.
2. Uniform load is limited by roof base allowed load of 200 lbs. (5 psi on roof).

Single Pier Installation

1. Align center hole of Unistrut P4100T on base and attach using supplied hardware. Torque screw to 19 ft./lbs.
2. Place pipe/tubing on P4100T and attach pipe/tubing clamp.

UP-MPDS Style Support



| Part Number | Qty. Unipier Bases | Supporting Channel | |
|--------------|--------------------|--------------------|-----------------------------|
| | | Qty. | Description |
| UP-MPDS-26HG | 4 | 2 | 26" - P1000T HG for Trapeze |
| UP-MPDS-38HG | 4 | 2 | 38" - P1000T HG for Trapeze |
| UP-MPDS-50HG | 4 | 2 | 50" - P1000T HG for Trapeze |
| UP-MPDS-62HG | 4 | 2 | 62" - P1000T HG for Trapeze |

Note:

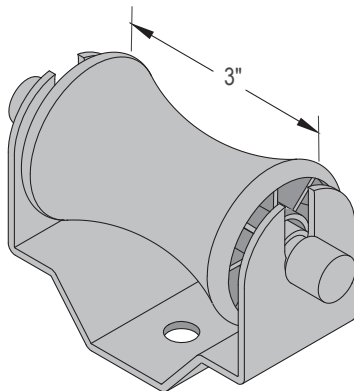
1. The maximum uniform load on P1000T is 400 lbs.
2. Uniform load is limited by roof base allowed load of 200 lbs. (5 psi on roof).

Note: Kits do not include pipe/tubing or clamps.

Trapeze Installation

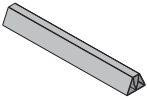
1. Align end holes of Unistrut P1000T on bases and attach using supplied hardware. Torque screw to 19 ft./lbs.
2. Place pipe/tubing on support and attach with appropriate pipe/tubing clamp.

M-RBS



The M-RBS roller is designed for use with the UP-BK base. The roller is made of polycarbonate and the roller rod is 6/6 nylon.

Note: Maximum load is 100 lbs. and should not extend more than 12" above the roof.
Wt./Ea.: 0.7 lbs.



Support Spacing

| Pipe Size (Nom.) | Support Spacing | | | |
|------------------|------------------------------------------|------------------------|----------------------------|------------------------|
| | Sch. 40 Pipe Water-Filled ^(a) | | Conduit GRC ^(b) | |
| | Single Pier | Trapeze ^(d) | Single Pier | Trapeze ^(d) |
| 3/8" | 7' | 7' | N/A | N/A |
| 1/2" | 7' | 7' | 10' | 10' |
| 3/4" | 7' | 7' | 10' | 10' |
| 1" | 7' | 7' | 12' | 12' |
| 1 1/4" | 7' | 7' | 14' | 14' |
| 1 1/2" | 9' | 9' | 14' | 14' |
| 2" | 10' | 10' | 16' | 16' |

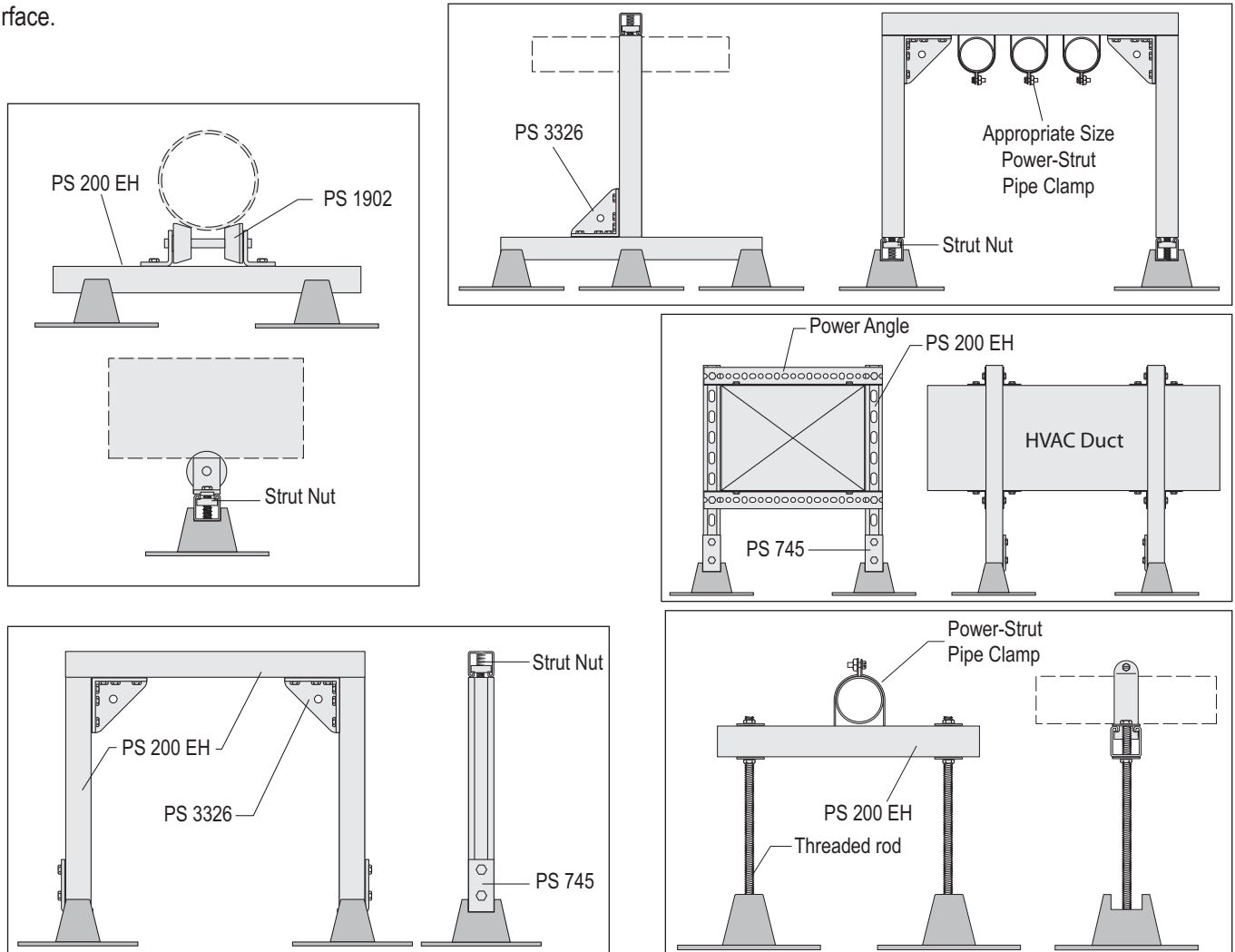
| Pipe Size (Nom.) | Support Spacing | | | |
|------------------|------------------------------------------|------------------------|----------------------------|------------------------|
| | Sch. 40 Pipe Water-Filled ^(a) | | Conduit GRC ^(b) | |
| | Single Pier | Trapeze ^(d) | Single Pier | Trapeze ^(d) |
| 2 1/2" | 11' | 11' | 16' | 16' |
| 3" | 12' | 12' | 13'(c) | 20' |
| 3 1/2" | 13' | 13' | 11'(c) | 20' |
| 4" | 12'(c) | 14' | 9'(c) | 20' |
| 5" | 8'(c) | 16' | 6'(c) | 20' |
| 6" | 6'(c) | 17' | 4'(c) | 20' |
| 8" | 4'(c) | 19' | N/A | N/A |

Note:

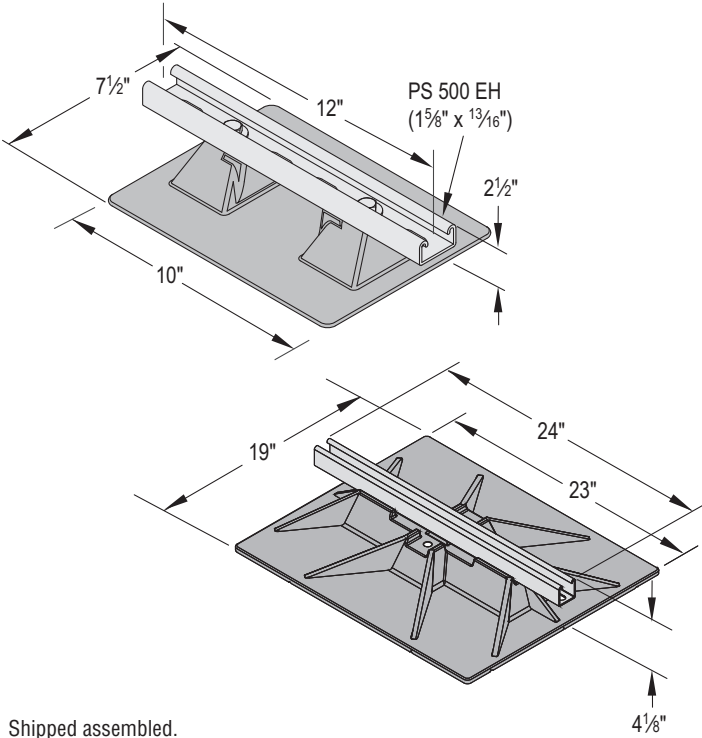
- (a) Based on ANSI/MSS SP-69, 2003 Edition, Table 3.
- (b) Based on 2002 NEC, Table 344.30(B)(2).
- (c) Spacing limited to roof base allowed load of 200 lbs. (5 psi on roof).
- (d) Spacing may be limited by maximum allowed weight on trapeze to 400 lbs.

Application Examples

Unipier Rooftop Support System provides a simple and versatile way to support and manage pipe, tubing, conduit, HVAC systems, and the like. The Unipier Rooftop Support System does not require roof surface penetration and allows the parts to remain off the surface.



2.5-CS, 24-BS - Mounted Support, Polycarbonate Base



Shipped assembled.

| Part Number | Material | Max. Uniform Load | Wt./Each |
|-------------|---------------|-------------------|----------|
| 2.5-CS-2 | Polycarbonate | 100 lbs. | 2.3 lbs. |
| 24-BS-4 | Polycarbonate | 640 lbs. | 8.0 lbs. |

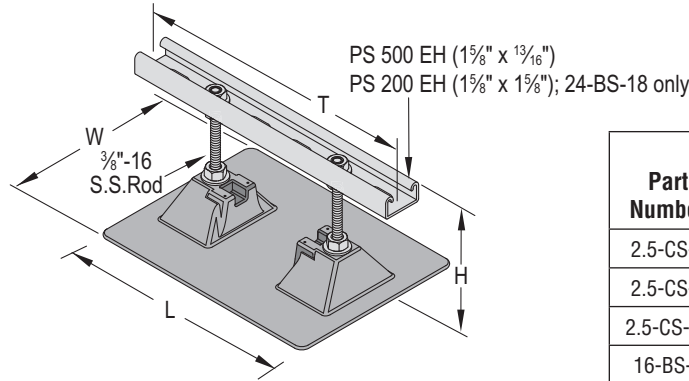
Determining Maximum Pipe Size

Maximum pipe size supported by any of the strut supports is determined by the load and the clear space required between the pipes. The spacing between pipes should be as follows:

- 1" between piping 3" and smaller.
- 1 1/2" between a pipe 3" and smaller and a pipe 4" or larger.
- 2" between piping 4" and larger.
- At least 1" between pipe clamp and end of strut

For example, a support for two 3" pipes would require:
 $1" + 3" + 1 1/2" + 3" + 1" = 9 1/2"$ wide channel support

2.5-CS, 16-BS thru 24-BS - Elevated Support, Polycarbonate Base

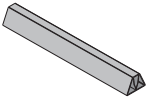


Note: Base for 2.5-CS-5, 2.5-CS-7 shown. Other bases have additional support or flanges to handle the increased loads.

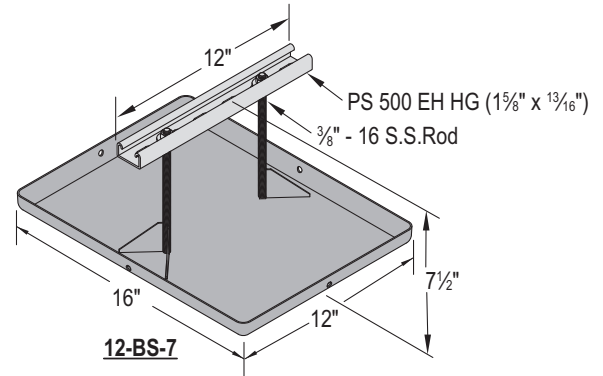
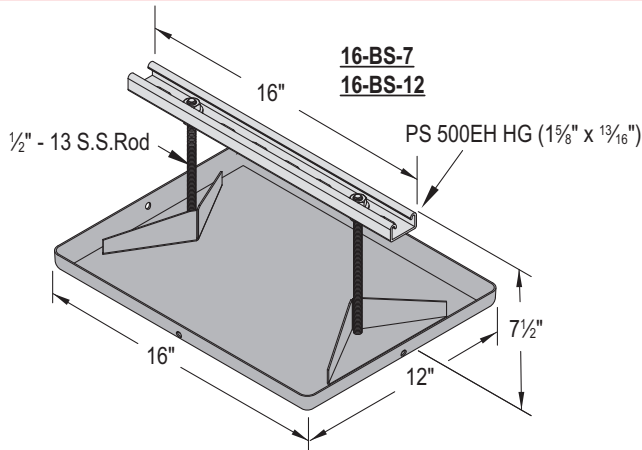
All bases are polycarbonate material

Shipped assembled.

| Part Number | "H" (max) in. | "W" in. | "L" in. | "T" in. | Max. Uniform Load | Wt./Each (lbs.) |
|-------------|---------------|---------|---------|---------|-------------------|-----------------|
| 2.5-CS-5 | 5" | 7 1/2" | 10" | 12" | 100 lbs. | 2.1 |
| 2.5-CS-7 | 7 1/2" | 7 1/2" | 10" | 12" | 100 lbs. | 2.5 |
| 2.5-CS-12 | 12" | 9" | 15 1/4" | 12" | 100 lbs. | 4.0 |
| 16-BS-7 | 7" | 9" | 15 1/4" | 16" | 125 lbs. | 5.0 |
| 16-BS-12 | 12" | 9" | 15 1/4" | 16" | 125 lbs. | 8.0 |
| 20-BS-7 | 7" | 16" | 18" | 20" | 440 lbs. | 10.8 |
| 20-BS-12 | 12" | 16" | 18" | 20" | 440 lbs. | 15.1 |
| 24-BS-18 | 12" | 23" | 19" | 24" | 640 lbs. | 8.0 |



16-BS-7, 12-BS-7 - Elevated Support, Steel Base

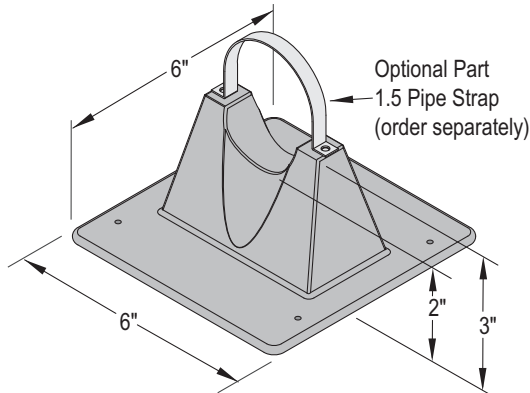


Shipped assembled.

| Part Number | Base Material | Max. Uniform Load | Wt./Each |
|-------------|-----------------------|-------------------|----------|
| 16-BS-7 HG | Hot-Dipped Galvanized | 150 lbs. | 7.5 lbs. |
| 16-BS-7 SS | Stainless Steel | 150 lbs. | 7.5 lbs. |

| Part Number | Base Material | Max. Uniform Load | Wt./Each |
|-------------|-----------------------|-------------------|----------|
| 12-BS-7 HG | Hot-Dipped Galvanized | 150 lbs. | 7.5 lbs. |
| 12-BS-7 SS | Stainless Steel | 150 lbs. | 7.5 lbs. |

1.5 Pipe Support - Mounted, Polycarbonate Base



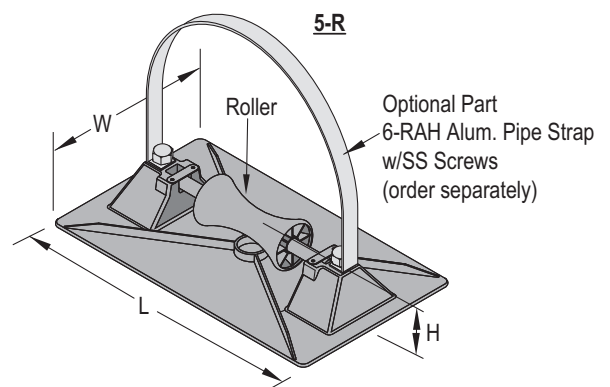
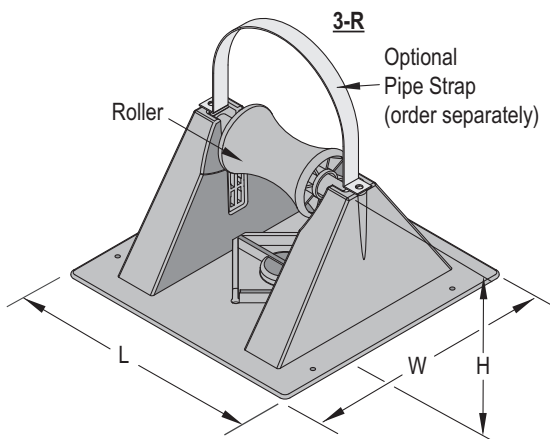
| Part Number | Max. Pipe Capacity | Max. Uniform Load | Wt./Ea. | Optional Pipe Strap |
|------------------|--------------------|-------------------|-----------|---------------------|
| 1.5 Pipe Support | 1 1/2" ID, 1.9" OD | 80 lbs. | 0.35 lbs. | 1.5 Pipe Strap |

Note: Base is polycarbonate

Optional pipe strap aluminum w/SS Screws

Shipped assembled.

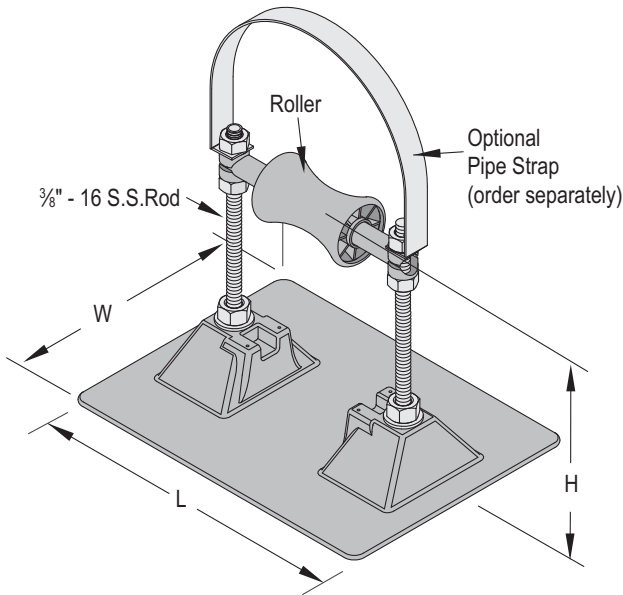
3-R, 5-R - Mounted, with Roller, Polycarbonate Base



Note: All bases are polycarbonate. Optional pipe strap aluminum w/SS Screws

| Part Number | "H" in. | "W" in. | "L" in. | Roller size | Max. Pipe Capacity | Max. Uniform Load | Wt./Ea. Lbs. | Optional Pipe Strap |
|-------------|---------|---------|---------|-------------|--------------------|-------------------|--------------|---------------------|
| 3-R-2 | 2.15" | 7 3/4" | 7 3/4" | 3" | 3" ID - 3 3/4" OD | 100 lbs. | 1.1 lbs. | 3-R-2 Pipe Strap |
| 3-R-4 | 4" | 7 3/4" | 7 3/4" | 3" | 3" ID - 3 3/4" OD | 100 lbs. | 1.2 lbs. | 3-R-4 Pipe Strap |
| 5-R | 2.35" | 9" | 15 1/4" | 5" | 5" ID - 6" OD | 150 lbs. | 2.4 lbs. | 6-RAH Pipe Strap |

3-RAH, 5-RAH, 6-RAH, 8-RAH – Elevated Support, with Roller, Polycarbonate Base

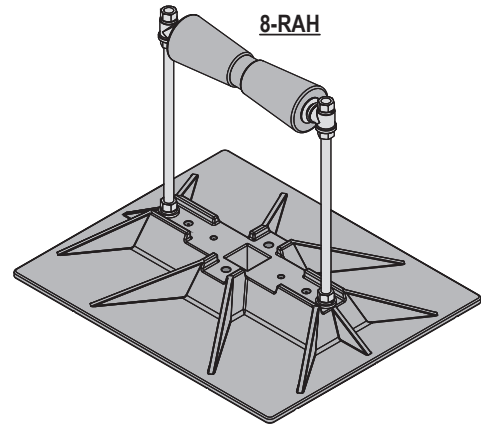
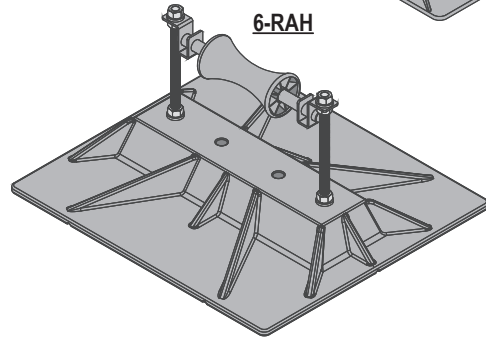
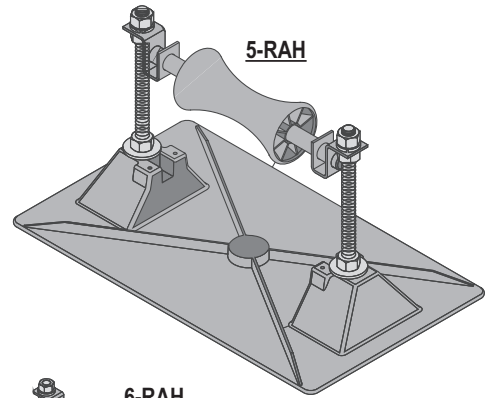


Note: Base for 3-RAH-7 shown. Other bases have additional support or flanges to handle the increased loads.

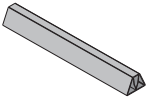
All bases are polycarbonate material

Optional pipe strap aluminum w/SS Screws

Shipped assembled.

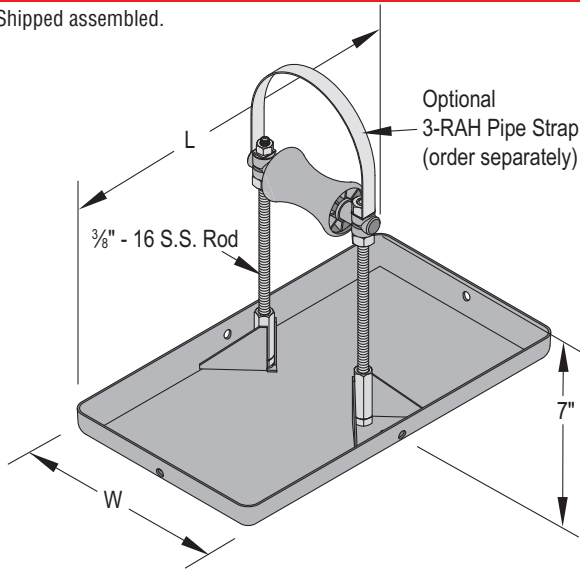


| Part Number | "H" (max) in. | "W" in. | "L" in. | Roller Size in. | Max. Pipe Capacity | Max. Uniform Load | Wt./Ea. Lbs. | Optional Pipe Strap |
|-------------|---------------|---------|---------|-----------------|--------------------|-------------------|--------------|---------------------|
| 3-RAH-7 | 7" | 7 1/2" | 10" | 3" | 3" ID - 3 3/4" OD | 100 lbs. | 1.9 | 3-RAH Pipe Strap |
| 3-RAH-12 | 12" | 9" | 15 1/4" | 3" | 3" ID - 3 3/4" OD | 100 lbs. | 5.8 | 3-RAH Pipe Strap |
| 5-RAH-7 | 7" | 9" | 15 1/4" | 5" | 5" ID - 6" OD | 150 lbs. | 4.8 | 6-RAH Pipe Strap |
| 5-RAH-12 | 12" | 9" | 15 1/4" | 5" | 5" ID - 6" OD | 150 lbs. | 4.8 | 6-RAH Pipe Strap |
| 6-RAH-7 | 7 1/2" | 16" | 18" | 5" | 6" ID - 8 1/2" OD | 250 lbs. | 8.8 | 6-RAH Pipe Strap |
| 6-RAH-12 | 12" | 16" | 18" | 5" | 6" ID, 8 1/2" OD | 250 lbs. | 9.8 | 6-RAH Pipe Strap |
| 8-RAH-18 | 18" | 19" | 23" | 12" | 6" ID, 8 1/2" OD | 640 lbs. | 20.0 | 8-RAH Pipe Strap |



3-RAH-7, 4-RAH-7 – Elevated Support, with Roller, Steel Base

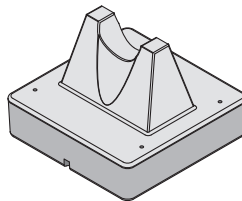
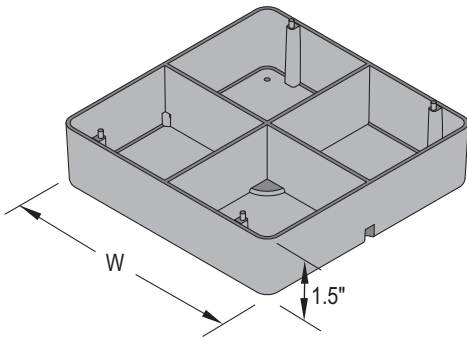
Shipped assembled.



| Part Number | "W" in. | "L" in. | Roller in. | Material | Max. Pipe Capacity | Max. Uniform Load | Wt. Each Lbs |
|-------------|---------|---------|------------|-----------------------|--------------------|-------------------|--------------|
| 3-RAH-7 HG | 8" | 14" | 3" | Hot-Dipped Galvanized | 3" ID 3 3/4" OD | 100 lbs. | 3.3 |
| 3-RAH-7 SS | 8" | 14" | 3" | Stainless Steel | 3" ID 3 3/4" OD | 100 lbs. | 3.3 |
| 4-RAH-7 HG | 12.07" | 16.07" | 5" | Hot-Dipped Galvanized | 4" ID 5" OD | 150 lbs. | 6.8 |
| 4-RAH-7 SS | 12.07" | 16.07" | 5" | Stainless Steel | 4" ID 5" OD | 150 lbs. | 5.8 |

Note: Optional 3-RAH Pipe Strap aluminum w/SS Screws

1.5 Spacer, 3-R Spacer – Spacer for Model 1.5 and Model 3-R

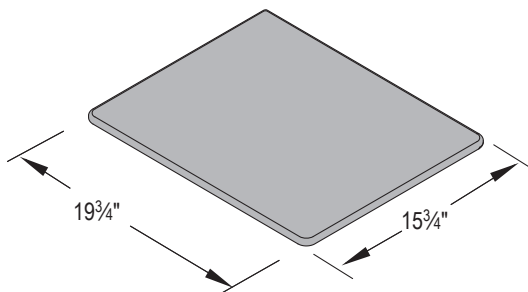


Example: Spacer with Model 1.5

| Part Number | Use With | "W" | Added Pipe Clearance | Wt./Ea. |
|-------------|-------------------|--------|----------------------|----------|
| 1.5 Spacer | 1.5 | 6" | 1 1/2" | 0.43 lbs |
| 3-R Spacer | 3-R-2 or 3-R-4 | 7-1/2" | 2" | 0.75 lbs |

Material: Polycarbonate

Support Pad – Polycarbonate Deck Plate



The Unipier support pad is designed to provide a barrier between the roof membrane and rooftop equipment. The support pad is 1/8" thick and are compatible with all current types of decking and commonly used built-up and single-ply roof membranes.

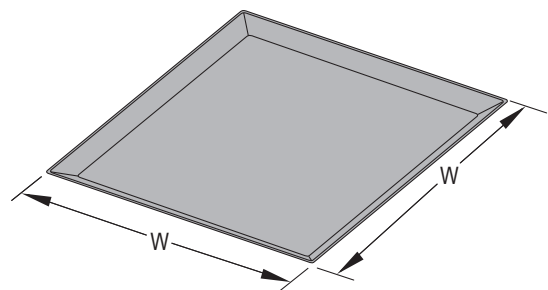
Support pads should be installed in the following areas:

- Under all Unipier pipe supports. The pipe support must be placed evenly over the support pad.
- In high traffic points or where regular maintenance is necessary to service rooftop equipment.

When installing the support pad, remove all rock, aggregate, dirt and excess dust from an area of the roof membrane slightly larger than the support pad. Then, apply the support pad on the cleaned area and center the Unipier pipe support on the rooftop pad.

The maximum roof top load should not exceed 5 p.s.i. The rooftop pad can withstand higher loading, but the roof membrane and insulation are typically limited to 5 p.s.i.

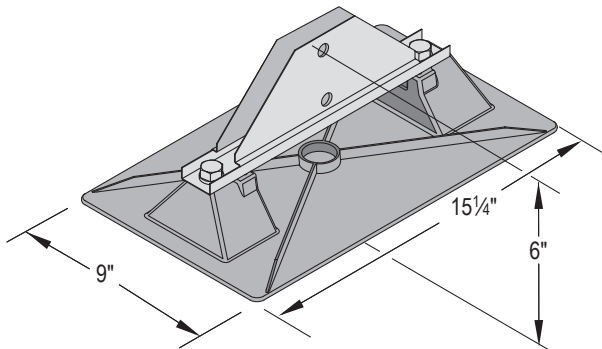
Deck Plate – Stainless Steel Deck Plate



| Part Number | Material | Width "W" | Wt./Each |
|-------------------|-----------------|-----------|----------|
| Deck Plates 12 SS | Stainless Steel | 12" | 2.0 lbs. |
| Deck Plates 18 SS | Stainless Steel | 18" | 4.5 lbs. |

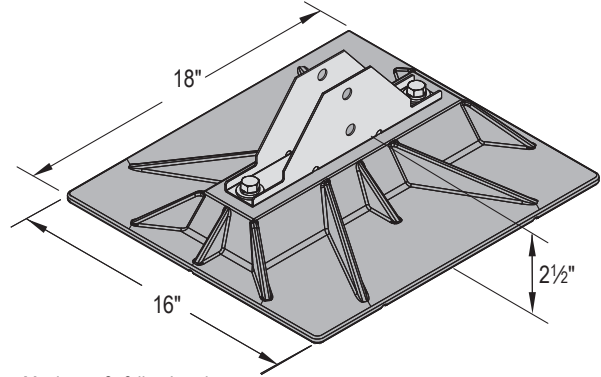
Model 6-H, Model 8-H-SB, Model 8-H-DB, Model 16-H – Polycarbonate Base

Model 6-H Base P



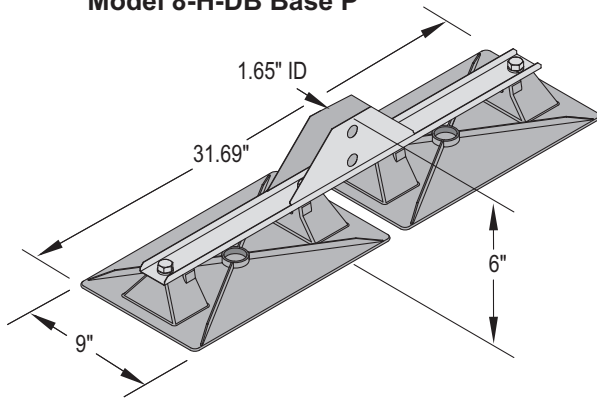
Note: Maximum 150 lbs. Load
Wt./Ea.: 2.5 lbs.

Model 8-H-SB Base P



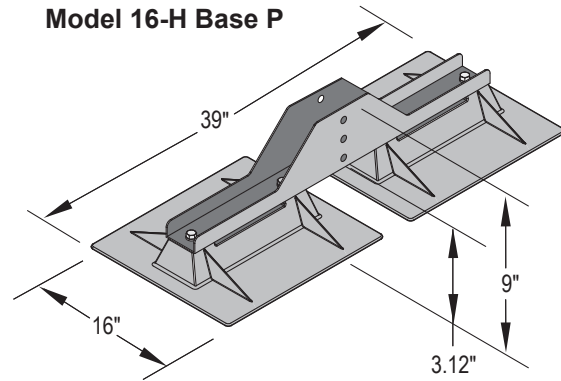
Note: Maximum 350 lbs. Load
Wt./Ea.: 5.5 lbs.
Note: Contact Unistrut for optional configuration to allow for adjustability.

Model 8-H-DB Base P



Note: Maximum 350 lbs. Load
Wt./Ea.: 4.5 lbs.

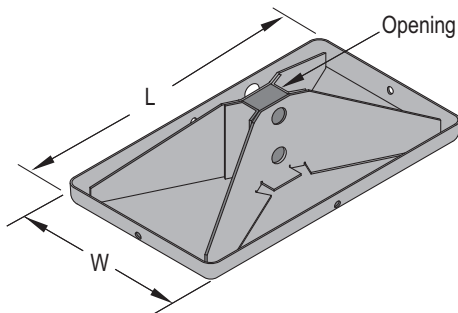
Model 16-H Base P



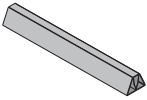
Note: Maximum 350 lbs. Load
Wt./Ea.: 18.5 lbs.

6-H Base, 8-H Base, 16-H Base – Steel Base

Model 6-H, 8-H, 16-H Base HG or S.S.



| Part Number | "W" | "L" | "Opening" |
|--------------|-----|-----|-----------------|
| 6-H Base HG | 8" | 14" | 1-5/8" x 7/8" |
| 6-H Base SS | 8" | 14" | 1-5/8" x 7/8" |
| 8-H Base HG | 16" | 12" | 1-5/8" x 1-5/8" |
| 8-H Base SS | 16" | 12" | 1-5/8" x 1-5/8" |
| 16-H Base HG | 20" | 20" | 3" x 3" |
| 16-H Base SS | 20" | 20" | 3" x 3" |



Custom Fabrication

The Unipier products offer a great deal of flexibility. If you do not find an “off-the-shelf” support for your particular application, contact Unistrut with your requirements. We can design and build the proper support for your unique application.

Samples of typical custom fabrications are shown in this section of the catalog.

Custom products are shown on the following pages. For a quotation on custom fabrication, contact Unistrut with the parameters for your design as shown below.

Pipe Stands

1. Quantity of supports required (or total footage of pipe)
2. Type of pipe
3. Size of pipe and number of pipes per support
4. Pipe contents
5. Clearance height above roof
6. Thickness of any insulation around pipe

Duct and Cable Tray Supports

1. Dimension of duct
2. Clearance height above roof
3. Total footage of duct
4. Thickness of insulation, if any

Unistrut Roofwalks® Rooftop Walkways, Crossover, Ramp and Platforms

1. Width and length desired
2. Height off roof
3. Specify if railing is needed
4. Type of roof

Mechanical Supports

1. Width and length desired
2. Height off roof
3. Weight of unit

2.5-SB-H, 5-SB-H, 8-SB-H, 8-SB-HD – Single Base Trapeze

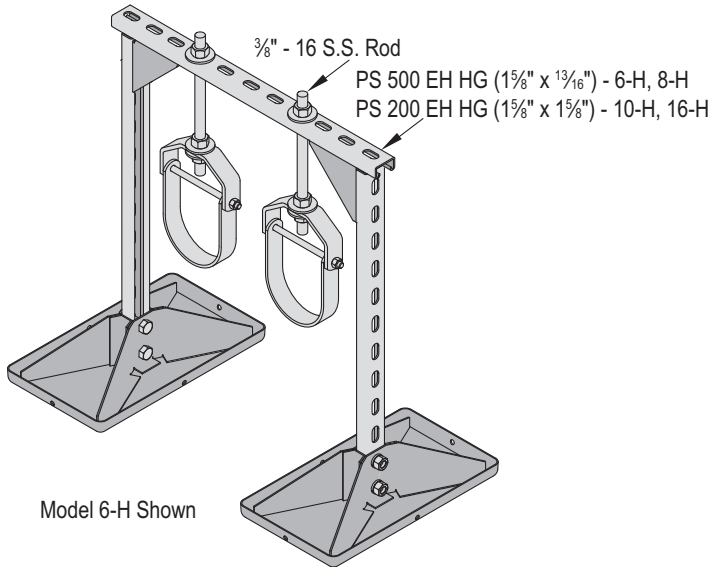
| Model | Material | Max. Uniform Load Per Pipe Stand |
|------------------|-----------------------|----------------------------------|
| 2.5-SB-H (shown) | Polycarbonate | 125 lbs. |
| 5-SB-H | Polycarbonate | 250 lbs. |
| 5-SB-H HG | Hot-Dipped Galvanized | 170 lbs. |
| 8-SB-H | Polycarbonate | 296 lbs. |
| 8-SB-HD | Polycarbonate | 640 lbs. |

Note: For maximum pipe size, refer to note on page 120.

UNIPIER® - Fabricated Support



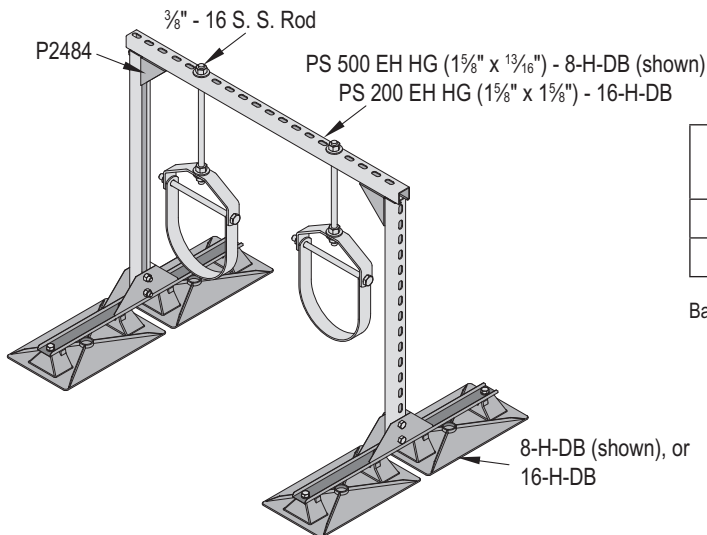
6-H, 8-H, 10-H, 16-H – Double Base Trapeze



Model 6-H Shown

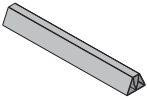
| Model | Material | Max. Uniform Load Per Pipe Stand | Max. Pipe Capacity |
|---------|-----------------------|----------------------------------|--------------------|
| 6-H-P | Polycarbonate | 300 lbs. | 7 1/2" |
| 8-H-P | Polycarbonate | 700 lbs. | 9" |
| 6-H-HG | Hot-Dipped Galvanized | 300 lbs. | 7 1/2" |
| 6-H-SS | Stainless Steel | 300 lbs. | 7 1/2" |
| 8-H-HG | Hot-Dipped Galvanized | 700 lbs. | 9" |
| 8-H-SS | Stainless Steel | 700 lbs. | 9" |
| 10-H-P | Polycarbonate | 1,600 lbs. | 9" |
| 16-H-HG | Hot-Dipped Galvanized | 1,600 lbs. | 18" |
| 16-H-SS | Stainless Steel | 1,600 lbs. | 18" |

8-H-DB, 16-H-DB – Heavy Duty Double Base Trapeze

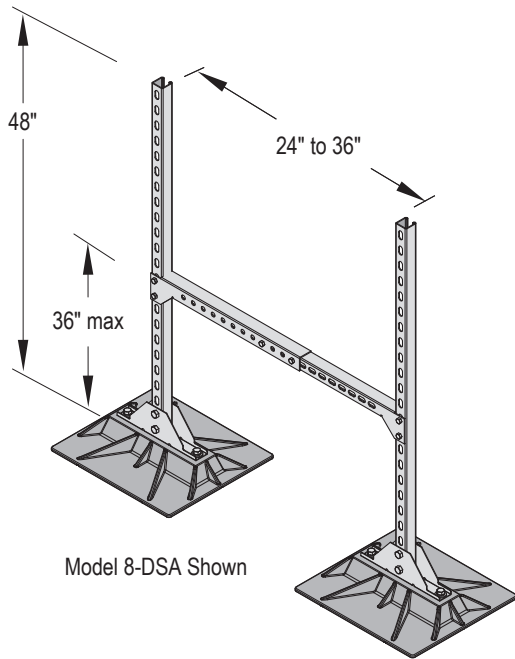


| Model | Max. Uniform Load Per Pipe Stand | Max. Pipe Capacity |
|---------|----------------------------------|--------------------|
| 8-H-DB | 700 lbs. | 9" |
| 16-H-DB | 1,600 lbs. | 18" |

Base Material: Polycarbonate

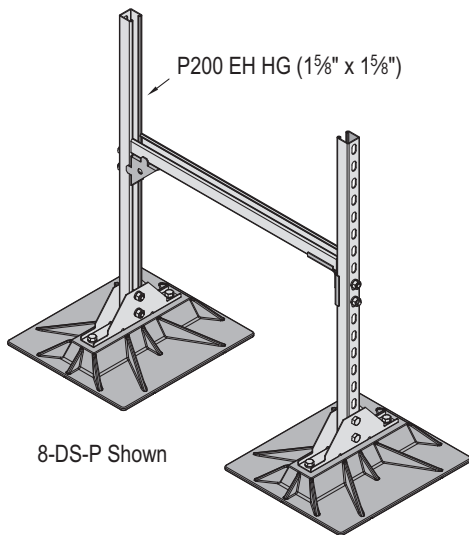


6-DSA, 8-DSA – Double Base Duct Support



| Model | Material | Max. Uniform Load Per Duct |
|-------|---------------|----------------------------|
| 6-DSA | Polycarbonate | 150 lbs. |
| 8-DSA | Polycarbonate | 300 lbs. |

6-DS, 8-DS, 8-DS-DB, 10-DS – Double Base Duct Support

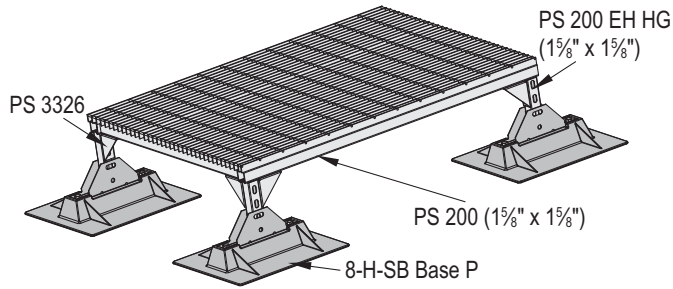


| Model | Material | Max. Uniform Load Per Duct |
|-----------|-----------------------|----------------------------|
| 6-DS-P | Polycarbonate | 150 lbs. |
| 6-DS-HG | Hot-Dipped Galvanized | 300 lbs. |
| 6-DS-SS | Stainless Steel | 300 lbs. |
| 8-DS-P | Polycarbonate | 300 lbs. |
| 8-DS-HG | Hot-Dipped Galvanized | 300 lbs. |
| 8-DS-SS | Stainless Steel | 300 lbs. |
| 8-DS-DB-P | Polycarbonate | 300 lbs. |
| 10-DS-P | Polycarbonate | 300 lbs. |

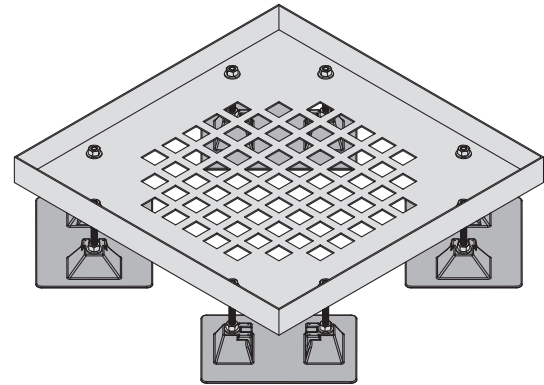
UNIPIER® - Fabricated Support



Heavy Duty Mechanical Support

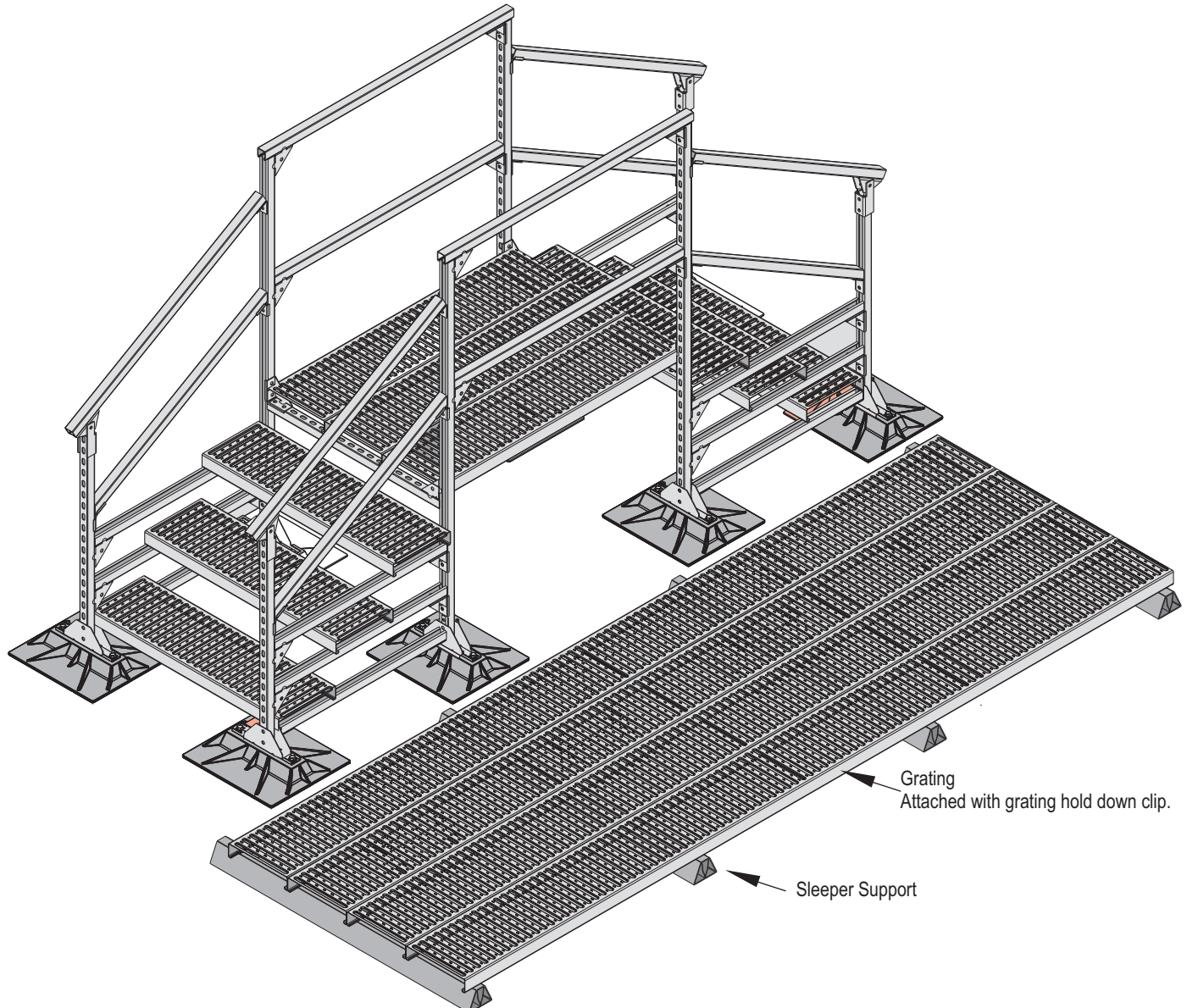


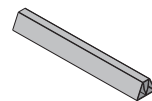
Light Duty Mechanical Support



Note: Adjustable height, maximum load 200 lbs.
Available Sizes: 18" x 18", 24" x 24", 30" x 30", 36" x 36"
Note: Custom sizes available, Contact Unistrut for information.

Bridge Cross-Over, Walkway, Service Platform or Ramp





Product Description:

A pipe support used to support roof mounted gas pipes, electrical conduit, solar piping and other mechanical piping. Unique design absorbs thermal expansion and contraction of pipes thus preventing damage to the roof membrane. Pipes rests include:

- "U" shaped cradle situated in a polycarbonate resin seat.
- Self-lubricating roller polycarbonate resin rod and roller. As daytime temperatures warm the roof membrane and the mechanical pipe network found on the roof, causing them to expand, the roller bearing in the pipe stand rolls beneath the pipe it supports. A difference between night and day temperatures of 20° F. causes 100 ft. of 1" steel pipe to move as much as 1/4".
- A strut system constructed of hot-dipped galvanized steel components including clevis hangers or band hangers.
- For the duct supports, the ducts rest on a 1 5/8" x 1 5/8" or 1 5/8" x 7/8" Unistrut channel and are adjustable in height.

Composition and Material:

Support base is made of polycarbonate resin or hot-dipped galvanized or stainless steel as indicated for the specific base. The base is gently rounded to prevent gouging the roof membrane. Carbon black is added to the polycarbonate resin for UV resistance and protection.

Pipe Roller is made of polycarbonate, or steel as indicated for the specific part.

Other Metal Parts are made of hot-dipped galvanized or stainless steel.

Duct Supports are made of hot-dipped galvanized Unistrut channel

All-Thread Rod are 1/2" or 3/8" stainless steel and are used for vertical supports.

Compatibility:

Pillow Block Pipe Stands are recommended for use on and compatible with all current types of decking and with all commonly used built-up and single-ply roofing membranes where roof-mounted pipes occur. For heavier loads it is prudent to use a Unipier Support Pad or other traffic pad to further protect the roof membrane.

Adjustable Height:

Several models allow adjustable height as desired or required by the code or roof system. Each model can be configured to allow plus or minus height above the roof. Purchasers should specify desired heights upon ordering the pillow block hangers.

Installation Process:

1. Center the support beneath the pipes or ducts so that the pipe or ducts are squarely over the pipe stand.
2. For adjustable models, adjust the support to the desired height and to ensure a uniform load with other supports. Make certain the horizontal support strut is level.
3. Place the pipe or duct on the support without dropping or causing undue impact.

For heavier loads it is prudent to install an additional sheet of roofing material, a Unipier Deck Plate, or Unipier Support Pad beneath the duct support.

For built-up roofs, all loose aggregate from an area 2" larger than each base should be removed from the area directly beneath the support. Care should be taken to install each support so it supports a proportional and equal amount of weight at each support.

Optional Straps:

For many of the models, the pipe may be secured to the pipe stand by using optional Unipier Pipe Straps.

Note:

When using a pipe strap, allow sufficient room between the pipe and the strap to allow free movement of the pipe without binding.

Loads and Spacing:

Unistrut recommends that spacing not exceed 10' between centers depending upon the load. Make certain each pipe stand is properly elevated to ensure a uniform load weight at all pipe stands and not exceed the load specified for the particular model support. All loads given in this catalog are for uniformly distributed loads.

Maintenance:

Normally maintenance is not required. Semi-annual inspection is required to check pipe stand position and set pipe alignment, weight distribution and improper installation which may cause pipe stand damage or failure.

Typical Steel Pipe Weights – Pipe Standing Load

For Schedule 40 Steel Pipe. (ASTM A53-86)

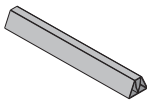
| Pipe Size | Pounds per Foot of Pipe Empty | Pounds per Foot Containing Gas | PSI per Foot on Model 6-RAH-7 BASE | 5 Feet Spacing | 7.5 Feet Spacing | 10 Feet Spacing |
|-----------|-------------------------------|----------------------------------|------------------------------------|----------------------|----------------------|----------------------|
| | | Pounds per Foot Containing Water | | | | |
| 3" | 7.575 | 7.578 | .02 | 37.89 lbs. .13 psi | 56.84 lbs. .20 psi | 75.78 lbs. .26 psi |
| | | 13.4 | .04 | 67.00 lbs. .23 psi | 100.50 lbs. .35 psi | 134.00 lbs. .47 psi |
| 4" | 10.790 | 10.794 | .03 | 53.97 lbs. .19 psi | 80.96 lbs. .28 psi | 107.94 lbs. .37 psi |
| | | 16.3 | .05 | 81.50 lbs. .28 psi | 122.25 lbs. .42 psi | 163.00 lbs. .57 psi |
| 5" | 14.620 | 14.627 | .04 | 73.14 lbs. .25 psi | 109.7 lbs. .38 psi | 146.27 lbs. .51 psi |
| | | 23.2 | .07 | 116.00 lbs. .40 psi | 174.00 lbs. .60 psi | 232.00 lbs. .80 psi |
| 6" | 18.970 | 18.98 | .05 | 94.49 lbs. .33 psi | 142.35 lbs. .49 psi | 189.80 lbs. .66 psi |
| | | 31.5 | .09 | 157.50 lbs. .55 psi | 236.25 lbs. .82 psi | 315.00 lbs. 1.09 psi |
| 8" | 28.55 | 28.567 | .08 | 142.84 lbs. .50 psi | 214.25 lbs. .74 psi | 285.67 lbs. .99 psi |
| | | 50.1 | .14 | 250.00 lbs. .87 psi | 375.75 lbs. 1.30 psi | 501.00 lbs. 1.74 psi |
| 10" | 40.48 | 40.507 | .12 | 202.54 lbs. .70 psi | 303.80 lbs. 1.05 psi | 405.07 lbs. 1.41 psi |
| | | 74.6 | .21 | 373.00 lbs. 1.30 psi | 559.50 lbs. 1.94 psi | 746.00 lbs. 2.60 psi |

PSI is in pounds per square inch on models 6-RAH-7 BASE, which contain 2 bases for a total of 288 square inches of roof contact area support.

Chart of Usual Pipe Diameters

| Pipe | PVC (Steel Size) | PVC (C900) | Cast Iron | Steel | Conduit |
|-----------------|------------------|------------------|------------------|------------------|------------------|
| Inside Diameter | Outside Diameter | Outside Diameter | Outside Diameter | Outside Diameter | Outside Diameter |
| 1/2" | .84" | – | – | .84" | .840" |
| 3/4" | 1.05" | – | – | 1.05" | 1.050" |
| 1" | 1.32" | – | – | 1.32" | 1.315" |
| 1 1/4" | 1.66" | – | – | 1.66" | 1.660" |
| 1 1/2" | 1.90" | – | – | 1.90" | 1.90" |
| 2" | 2.38" | 2.50" | 2.50" | 2.38" | 2.375" |
| 2 1/2" | 2.88" | – | – | 2.88" | 2.875" |
| 3" | 3.50" | – | 3.96" | 3.50" | 3.500" |
| 3 1/2" | – | – | – | – | 4.000" |
| 4" | 4.50" | 4.80" | 5.00" | 4.50" | 4.500" |
| 5" | – | – | – | 5.56" | 5.563" |
| 6" | 6.63" | 6.90" | 7.22" | 6.63" | 6.625" |
| 8" | 8.63" | 9.05" | 9.42" | 8.63" | – |
| 10" | 10.75" | 11.10" | 11.60" | 10.75" | – |

The above dimensions are for usual and customary pipe sizes. Actual pipe sizes may vary from manufacturer to manufacturer.



Unipier Specifications for Typical Bases

| Base Model | Outside Dimension at Roof Contact (in.) | Roof Contact Area (in. ²) | Allowable Loading in Pounds | PSI on Roof for Each Base Under Maximum Load | Composition of Material of Base |
|-------------------------------|-----------------------------------------|---------------------------------------|-----------------------------|----------------------------------------------|---------------------------------|
| 1.5 | 6 X 6 | 24.42 | 80 | 3.27 | P |
| 1.5 SPACER | 6 X 6 | 33.06 | 80 | 2.41 | P |
| 2.5-CS-2, 2.5-CS-5, 2.5-CS-7 | 7.5 X 10 | 57.50 | 100 | 1.73 | P |
| 2.5-CS-12 | 9 X 15.25 | 111.75 | 100 | 0.89 | P |
| 2.5-SB-H P | 9 X 15.25 | 111.75 | 125 | 1.11 | P |
| 3-R-2; 3-R-4 | 7.75 X 7.75 | 39.64 | 100 | 2.52 | P |
| 3-R SPACER | 7.25 X 7.25 | 52.56 | 100 | 1.90 | P |
| 3-RAH-7 | 7.5 X 10 | 57.50 | 100 | 1.73 | P |
| 3-RAH-12 | 9 X 15.25 | 111.75 | 100 | 1.11 | P |
| 3-RAH-7 HG / SS | 8 X 14 | 96.06 | 100 | 1.04 | HG / SS |
| 4-RAH-7 HG / SS | 12 X 16 | 174.89 | 150 | 0.85 | HG / SS |
| 5-R; 5-RAH-7; 5-RAH-12 | 9 X 15.25 | 111.75 | 150 | 1.34 | P |
| 5-SB-H HG | 12 X 16 | 174.89 | 170 | 0.97 | HG / SS |
| 5-SB-H P | 16 X 18 | 220.32 | 250 | 1.13 | P |
| 6-RAH-7; 6-RAH-12 | 16 X 18 | 220.32 | 250 | 1.13 | P |
| 6-RAH-7 HG/SS; 6-RAH-RS HG/SS | 12 X 16 | 174.89 | 150 | 0.85 | HG / SS |
| 6-H-P (used in pairs) | 9 X 15.25 | 223.50 | 310 | 1.38 | P |
| 6-H (2 Bases) HG / SS | 8 X 14 | 192.12 | 310 | 1.61 | HG / SS |
| 8-H-SB-P (used in pairs) | 16 X 18 | 440.64 | 700 | 1.58 | P |
| 8-H-DB-P (used in pairs) | 9 X 31.69 | 447.00 | 700 | 1.56 | P |
| 8-H HG / SS (used in pairs) | 12 X 16 | 349.78 | 700 | 2.00 | HG / SS |
| 8-RAH-18 | 19 x 23 | 325.98 | 640 | 1.96 | P |
| 8-SB-H | 19 x 23 | 325.98 | 640 | 1.96 | P |
| 10-H-DS P | 19 x 23 | 325.98 | 640 | 1.96 | P |
| 12-BS-7 HG / SS | 12 X 16 | 174.89 | 150 | 0.85 | HG / SS |
| 16-BS-7; 16-BS-12 | 9 X 15.25 | 111.75 | 125 | 1.11 | P |
| 16-BS-7 HG / SS | 12 X 16 | 174.89 | 150 | 0.85 | HG / SS |
| 16-H-P (used in pairs) | 16 X 39 | 881.28 | 1600 | 1.81 | P |
| 16-H HG / SS (used in pairs) | 20 X 20 | 800.00 | 1600 | 2.00 | HG / SS |
| 20-BS-7; 20-BS-12 | 16 X 18 | 220.32 | 250 | 1.13 | P |
| 24-BS-4; 24-BS-18 | 19 x 23 | 325.98 | 640 | 1.96 | P |

P – Polycarbonate Resin, SS – Stainless Steel - ASTM No. 304, HG – Hot-Dipped Galvanized

Note: Care should be taken to properly engineer the roof design so as to not overload the actual limits or manufacturer's recommended limits for each pipe support, the roof membrane, the roof top insulation, or the roof structure.

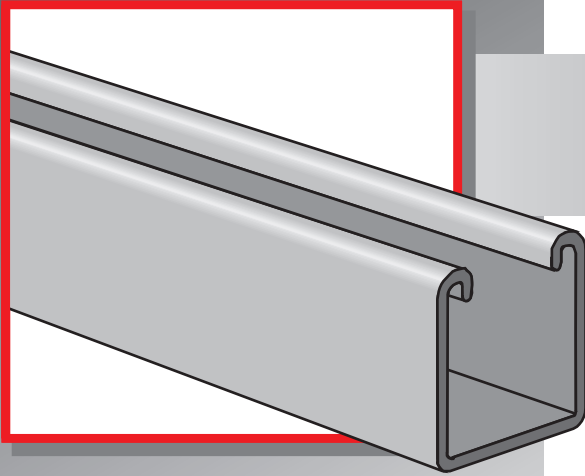
Note: Unipier has set the above load limits for each base to come within usual and customary roof structure, roof insulation, and roof membrane load limits. Unipier's manufacturing recommendations do not replace actual engineering required for each specific job.

Technical Properties For Polycarbonate Resin*

| PROPERTY | ASTM TEST METHOD | VALUE |
|-----------------------------------------------------------|------------------|-------------------------------------------------------|
| PHYSICAL | | |
| Specific Gravity | D792 | 1.20 |
| Specific Volume, in ³ /lb (cm ³ /g) | – | 23.1 (0.83) |
| Weight/Volume, lbs/in ³ (g/cm ³) | – | 0.043 (1.20) |
| Water Absorption % | D570 | – |
| 24 hours @ 73°F (23°C) | – | 0.15 |
| Equilibrium, 73°F (23°C) | – | 0.35 |
| Equilibrium, 212°F (100°C) | – | 0.58 |
| Mold Shrinkage, in/in (mm/mm) | D955 | 0.005-0.007 |
| Light Transmittance, % at 0.125" | D1003 | 89 |
| Haze, % @ 0.125" | D1003 | 1 |
| Refractive Index | – | 1.586 |
| THERMAL | | |
| Deflection Temperature °F (°C) | D648 | – |
| @ 66 psi (0.46 MPa) | – | – |
| @ 254 psi (1.82 MPa) | – | 270 () |
| Specific Heat, Btu/lb/°F (kJ/kg/°K) | – | 0.30 (1.25) |
| Thermal Conductivity | – | – |
| Btu-in/h-ft ² -°F (W/Km) | – | 1.35 (.19) |
| Coefficient of Thermal Expansion | – | – |
| in/in/°F (m.m/°C) | D696 | 3.75 x 10 ⁻⁵ (6.75 s 10 ⁻⁵) |
| Vicat Softening Temperature, °F (°C) | D1525 | 305-315 (152-157) |
| Viscosity Midpoint | D1238 | 9.5 |
| (Melt Flow Rate) g/10 min. | Condition 0 | – |
| Brittleness Temperature, °F (°C) | D746 | <-200 (-129) |
| Flammability Ratings | – | – |
| ASTM | D365° | AEB>1" |
| UL Standard 94° 1/16 (1.6 mm) | UL94 | V-2 |
| UL Standard 94° 1/8 (3.2 mm) | UL94 | V-2 |
| Oxygen Index | D2863 | 25.0 |
| PHYSICAL | | |
| Dielectric Strength, volts/mil (kV/mm) | D149 | 380 (15.0) |
| Short time, 125 mils (3.2mm) | – | – |
| Dielectric Constant | D150 | – |
| 60 Hz | – | 3.17 |
| 106 Hz | – | 2.96 |
| Dielectric Factor | D150 | – |
| 60 Hz | – | 0.0009 |
| 106 Hz | – | 0.010 |
| Volume Resistivity, ohm-cm | – | D257 |
| @ 73°F, dry (23°C) | – | >10 ¹⁶ |

| PROPERTY | ASTM TEST METHOD | VALUE |
|----------------------------------------------------------------------|------------------|--------------|
| Arc Resistance, sec | D495 | – |
| Stainless Steel Electrodes | – | 10-11 |
| Tungsten Electrodes | – | 120 |
| MECHANICAL | | |
| Tensile Strength, psi (MPa) | D638 | – |
| Yield | – | 9,000 (62) |
| Ultimate | – | 10,000 (69) |
| Elongation, % | D638 | – |
| Rupture | – | 130 |
| Flexural Strength, psi (MPa) | D790 | 14,000 (97) |
| Flexural Modules, 10 ⁵ psi (MPa) | D790 | 3.40 (2,300) |
| Compressive Strength, psi (MPa) | D695 | 12,500 (86) |
| Compressive Modules, psi (MPa) | D695 | – |
| 10 ⁵ osu (MPa) | – | 3.45 (2,400) |
| Shear Strength, psi (MPa) | D732 | – |
| Yield | – | 6,000 (40) |
| Ultimate | – | 10,000 (70) |
| Shear Modules, 10 ⁵ psi (MPa) | – | 1.14 (790) |
| Izod Impact Strength, ft-lbs/in (J/m) | D1822 | – |
| Notched, 1/8" thick (3.22mm) | – | 15 (801) |
| Tensile Impact Strength, ft-lbs/in ² (kJ/m ²) | D1822 | – |
| S-type | – | 275 (579) |
| Dynatup Impact Strength, ft-lbs/in (J) | D3763 | 47 (64) |
| Fatigue Strength, psi @ 2.5mm | D671 | – |
| cycles (MPa) | – | 1,000 (7.0) |
| Rockwell Hardness | D785 | – |
| M | – | 70 |
| R | – | 118 |
| Deformation Under Load % | D621 | – |
| 4000 psi @ 73°F (27 MPa @ 23°C) | – | 0.2 |
| 4000 psi @ 158°F (27 MPa @ 70°C) | – | 0.5 |
| Taber Abrasion Resistance | – | – |
| Weight Loss, mg/1000 cycles | D1044 | 10 |

*Polycarbonate Resin is used in all models indicated in catalog as Polycarbonate, and in all rollers.



JUNIOR CHANNEL

Power-Strut junior channel sections are cold formed from prime quality cold rolled steel. Junior channel fittings are punched from hot rolled, pickled and oiled steel.

STANDARD LENGTHS:

Standard length is 10 feet at a tolerance of $\pm 1/16$ inches. Shorter lengths are available for a small cutting charge.

STANDARD DIMENSIONS FOR FITTINGS:

Fitting Thickness: $1/8$ "
Fitting Width: $13/16$ "
Hole Diameter: $9/32$ "
Hole Spacing: $11/16$ " on centers and $13/32$ " from end.

STANDARD FINISH:

PS 600J and PS 700J junior channels are available in a galvanized or painted green finish. All junior channel fittings are available in electro-galvanized finish.

ORDERING INFORMATION:

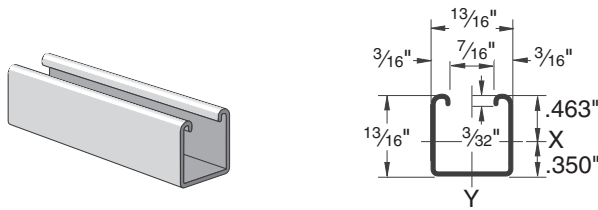
When ordering, add the length or size and finish to the part number. See pages 8-9 for finish abbreviations and an example.

JUNIOR CHANNEL



Finish: Electro-galvanized Stock Width: $1\frac{3}{16}$ " Stock Thickness: $\frac{1}{8}$ " Stock Length: 10'
 Order By: No., Size, and Finish Hole Spacing: $\frac{13}{32}$ " from end, $\frac{11}{16}$ " on center Hole Diameter: $\frac{9}{32}$ "

PS 600J – Channel ($1\frac{3}{16}$ " x $1\frac{3}{16}$ " x 19 ga.)



BEAM LOADING – PS 600J

| Span (in) | Max Allowable Uniform Load (lbs) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|----------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 18 | 230 | 0.06 | 230 | 230 | 180 |
| 24 | 170 | 0.11 | 170 | 150 | 100 |
| 30 | 140 | 0.18 | 130 | 100 | 70 |
| 36 | 110 | 0.24 | 90 | 70 | 50 |
| 42 | 100 | 0.35 | 70 | 50 | 30 |
| 48 | 80 | 0.42 | 50 | 40 | 30 |
| 54 | 80 | 0.60 | 40 | 30 | 20 |
| 60 | 70 | 0.72 | 30 | 20 | 20 |

* Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

COLUMN LOADING – PS 600J

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 18 | 600 | 1,660 | 1,400 | 1,100 | 860 |
| 24 | 490 | 1,300 | 1,010 | 740 | 590 |
| 30 | 420 | 990 | 740 | 560 | 450 |
| 36 | 340 | 770 | 590 | 450 | 370 |
| 42 | 300 | 630 | 490 | 380 | 310 |
| 48 | 260 | 540 | 420 | 330 | 270 |
| 54 | 240 | 470 | 370 | 290 | ** |
| 60 | 210 | 410 | 330 | ** | ** |

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading.

ELEMENTS OF SECTION

| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 36 | 0.107 | 0.009 | 0.020 | 0.295 | 0.012 | 0.029 | 0.333 |

PS 3017 – Junior Channel Nuts **PS 4017 – Junior Channel Nuts** **PS 2029 – End Cap**



| Size | Wt./100 pcs |
|-------|-------------|
| 8-32 | 1 |
| 10-32 | 1 |
| 10-24 | 1 |
| 1/4" | 1 |

Use With: PS 600J channel



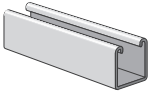
| Size | Wt./100 pcs |
|-------|-------------|
| 8-32 | 1 |
| 10-32 | 1 |
| 10-24 | 1 |
| 1/4" | 1 |

Use With: PS 700J channel



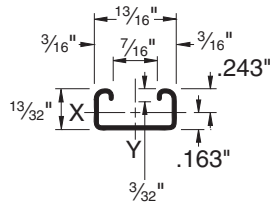
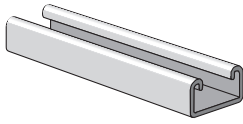
Use With: PS 600J

Weight/100 pcs: 2 lbs.



Finish: Electro-galvanized Stock Width: $1\frac{3}{16}$ " Stock Thickness: $\frac{1}{8}$ " Stock Length: 10'
 Order By: No., Size, and Finish Hole Spacing: $1\frac{3}{32}$ " from end, $1\frac{1}{16}$ " on center Hole Diameter: $\frac{9}{32}$ "

PS 700J – Channel ($1\frac{3}{16}$ " x $1\frac{3}{32}$ " x 19 ga.)



* Bearing load may govern capacity.

** $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading. For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

BEAM LOADING – PS 700J

| Span (in) | Max Allowable Uniform Load (lbs) | Defl. at Uniform Load (in) | Uniform Loading at Deflection | | |
|-----------|----------------------------------|----------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 (lbs) | Span/240 (lbs) | Span/360 (lbs) |
| 18 | 80 | 0.12 | 60 | 50 | 30 |
| 24 | 60 | 0.22 | 40 | 30 | 20 |
| 30 | 50 | 0.36 | 20 | 20 | 10 |
| 36 | 40 | 0.50 | 20 | 10 | 10 |

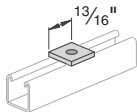
COLUMN LOADING – PS 700J

| Unbraced Height (in) | Max. Allowable Load at Slot Face (lbs) | Maximum Column Load Applied at C.G. | | | |
|----------------------|----------------------------------------|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 (lbs) | K = 0.80 (lbs) | K = 1.0 (lbs) | K = 1.2 (lbs) |
| 18 | 420 | 1,200 | 990 | 720 | 510 |
| 24 | 330 | 900 | 640 | 410 | 280 |
| 30 | 260 | 620 | 410 | ** | ** |
| 36 | 200 | 430 | 280 | ** | ** |

ELEMENTS OF SECTION

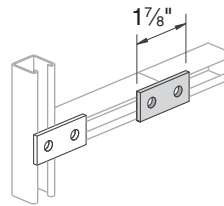
| Weight (lbs./100 ft.) | Area of Section (Inch ²) | X-X Axis | | | Y-Y Axis | | |
|-----------------------|--------------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------------------------------|--------------------------------------|---------------------------|
| | | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) | Moment of Inertia (Inch ⁴) | Section Modulus (Inch ³) | Radius of Gyration (Inch) |
| 25 | 0.074 | 0.002 | 0.007 | 0.150 | 0.007 | 0.017 | 0.307 |

PS 2013 – Square Washer



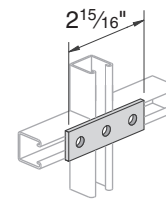
Weight/100 pcs: 2 lbs.

PS 2014 – Two-Hole Splice Plate



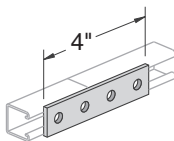
Weight/100 pcs: 5 lbs.

PS 2015 – Three-Hole Splice Plate



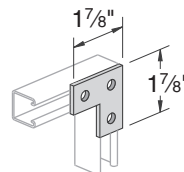
Weight/100 pcs: 8 lbs.

PS 2016 – Four-Hole Splice Plate



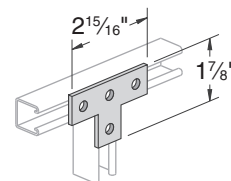
Weight/100 pcs: 11 lbs.

PS 2033 – Flat Angle Plate



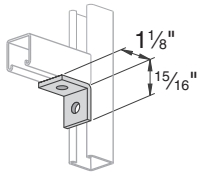
Weight/100 pcs: 8 lbs.

PS 2034 – Tee Plate



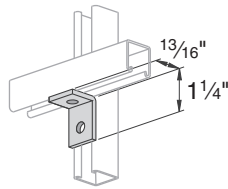
Weight/100 pcs: 11 lbs.

PS 2008 – Two-Hole Corner Angle



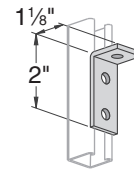
Weight/100 pcs: 5 lbs.

PS 2017 – Two-Hole Corner Angle



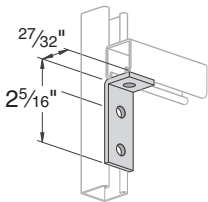
Weight/100 pcs: 5 lbs.

PS 2018 – Three-Hole Corner Angle



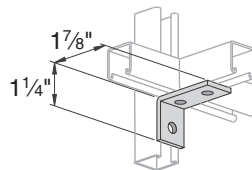
Weight/100 pcs: 8 lbs.

PS 2025 – Three-Hole Corner Angle



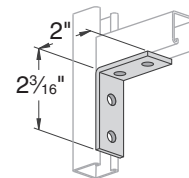
Weight/100 pcs: 8 lbs.

PS 2037 – Three-Hole Corner Angle



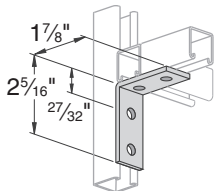
Weight/100 pcs: 8 lbs.

PS 2019 – Four-Hole Corner Angle



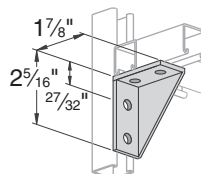
Weight/100 pcs: 11 lbs.

PS 2024 – Four-Hole Corner Angle



Weight/100 pcs: 11 lbs.

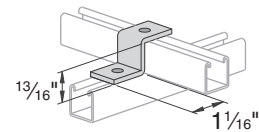
PS 2023 R or L – Four-Hole Shelf Bracket



Weight/100 pcs: 19 lbs.

Note:
Specify R (right) or L (left) when ordering
Right Hand Illustrated

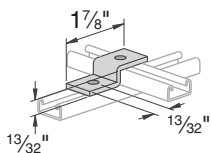
PS 2010 – "Z" Support



Weight/100 pcs: 7 lbs

Use With: PS 600J

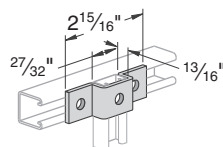
PS 2026 – "Z" Support



Use With: PS 700J

Weight/100 pcs: 6 lbs.

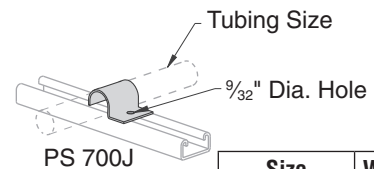
PS 2011 – "U" Support



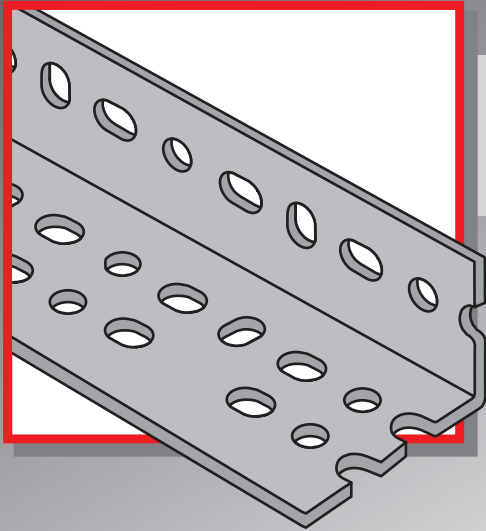
Use With: PS 600J

Weight/100 pcs: 12 lbs.

PS 2041 – Tubing Clamps



| Size Tubing O.D. | Wt./100 pcs |
|---------------------|----------------|
| 1/4" | 2 |
| 3/8" | |
| 1/2" | |
| 5/8" | |
| 3/4" | 3 |
| 7/8" | |
| 1" | |



POWER-ANGLE®

A complete support system that's versatile, economical and easy to use.

- *No drilling, welding or special tools necessary.*
- *Fast, efficient bolt-together construction*
- *Easy to change and adjust*

STANDARD LENGTHS:

Standard lengths are 10' and 12'. Slotted angle is shipped in ten-piece bundles complete with 75 pieces of $\frac{3}{8}$ " - 16 x $\frac{3}{4}$ " hex head bolts and $\frac{3}{8}$ " nuts.

STANDARD FINISH:

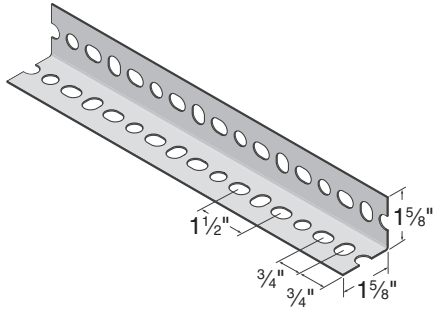
Available in two durable, long-lasting finishes; pre-galvanized or Power-Green™.

ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number. See pages 8-9 for finish abbreviations and an example.

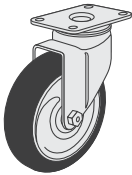
Finish: Pregalvanized or Acrylic Green Stock Thickness: .075(14 ga.) Stock Length: 10 & 12 Feet
 Order By: No., Length and Finish

PA 158 – Light Duty
 (1½" x 1⅝" x 14 ga.)



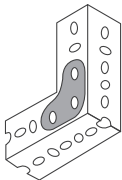
Weight/100 ft.: 66 lbs.

PA 158C – Swivel Caster



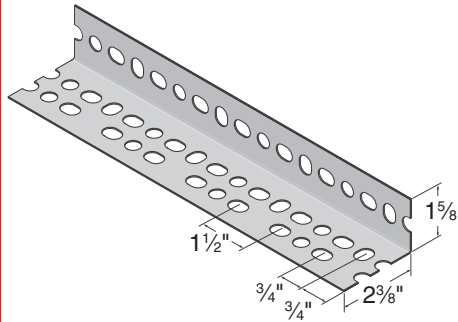
Weight/100 pcs: 170 lbs.

PA 158GP – Gusset Plate



Weight/100 pcs: 9 lbs.

PA 238 – Medium Duty
 (1⅝" x 2⅜" x 14 ga.)



Weight/100 ft.: 80 lbs.

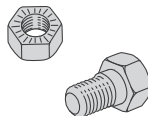
PA 238C – Rigid Caster



Weight/100 pcs: 110 lbs.

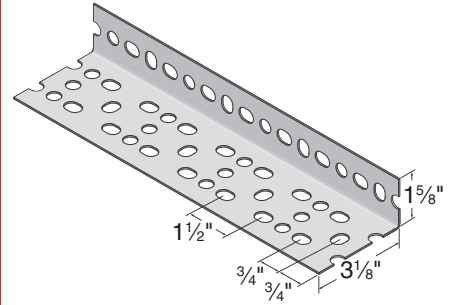
PA 238SNB – Serrated Nuts & Bolts

(Package of 75 nuts and 75 bolts)



Weight/100 pcs: 7 lbs.

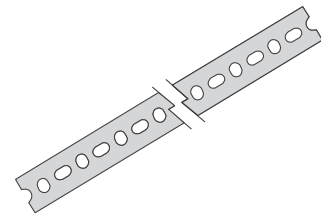
PA 318 – Heavy Duty
 (1⅝" x 3⅜" x 12 ga.)



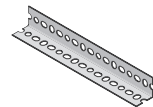
Note: Includes Serrated Nuts & Bolts

Weight/100 ft.: 130 lbs.

PA 318RP – Slotted Strap



Weight/100 pcs: 35 lbs.

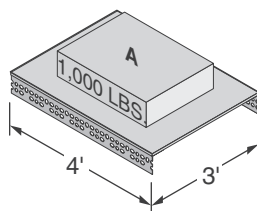


Beam Load Calculations

The beam loading depends on which slotted angle is used and the manner in which the beam is constructed. The diagrams on the next page show how individual slotted angle components can be combined to form a beam. The loading for each beam configuration is shown in the beam loading tables on the following pages.

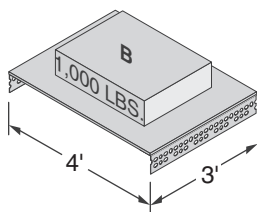
Example - Load "A"

Load "A" is supported by two 48" sections of PA-238 (1 5/8" x 2 3/8"). The 48" row of Table 2 (page 131) indicates what each beam configuration will support. Since the columns are sorted from lowest to highest load, the first configuration that satisfies the requirement is "J" which will support 1,110 lbs.



Example - Load "B"

Load "B" is supported by two 36" sections of PA-238 (1 5/8" x 2 3/8"). The 36" row of Table 2 (Page 131) indicates what each beam configuration will support. Since the columns are sorted from lowest to highest load, the first configuration that satisfies the requirement is "I" which will support 1,100 lbs.



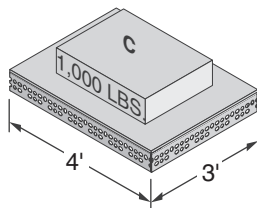
Example - Load "C"

Load "C" is supported by all four beam sections. The load is distributed uniformly on two 3' and two 4' beams which total 14' of supporting beam length. Dividing the 1,000 lb.

load by 14-feet equals 72 lbs. per foot. Using the two longest (weakest) lengths, calculate the total weight as follows:

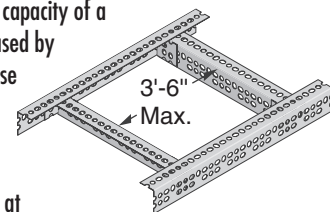
$$2 \text{ (beams)} \times 4' \text{ (length)} \times 72 \text{ lbs./ft.} = 576 \text{ lbs. total weight}$$

The 36" row of Table 2 (Page 131) indicates what each beam configuration will support. Since the columns are sorted from lowest to highest load, the first configuration that satisfies the requirement is "H" which will support 680 lbs. and is adequate for this requirement. The 3-foot beams configured in the same manner will support the load because they are shorter and stronger.



Transverse Stiffeners

When supporting concentrated loads, the capacity of a pair of slotted-angle beams can be increased by the addition of transverse stiffeners. These should be placed immediately under the load bearing point. The slotted-angle segment used as the stiffener is bolted into place using a metal connector at each junction.



Beams that are 6' long or less require only one stiffener in the center of the span. Seven-foot beams need two stiffeners placed 2' from each end. Eight-foot beams require two stiffeners 2' 6" from the ends. For beams with a nine-foot span, it is necessary to have three stiffeners at 2' 3" intervals. Ten-foot beams need three stiffeners with 2' 6" spacings.

For maximum effectiveness, transverse stiffeners should never be spaced more than 3' 6" apart.

Note: All loads based on actual physical testing. Documentation available on request.

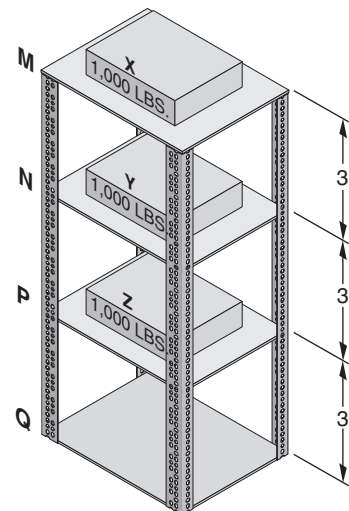
Column Load Calculations

Column sections are calculated as described in the following example: (Assumes use of PA-238 1 5/8" x 2 3/8", material.)

Since all load areas are supported equally by the 4-columns, the calculations are based on a single-column section.

Section MN is one-fourth of "X", or 250 pounds. Column section NP supports one-fourth of "Y" (250 pounds) plus the load supported by MN, or a total of 500 pounds. Section PQ supports one-fourth of "Z" (250 pounds) plus the 500 pound load on section NP, or a total of 750 pounds.

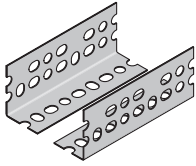
Column loads are based on free and unbraced column lengths. Since MN, NP and PQ are each 3' long, the load requirement is for a 36" section that will bear 750 pounds safely. A reference to Table 5 (Page 132) indicates that all sections designated "A" will support 2,280 lbs. and meet the necessary requirements.



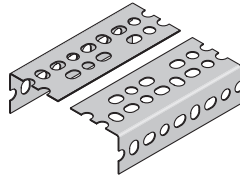
Note: To simplify assembly, we recommend using the same size material as for the horizontal members. This would be found in Table 2 (page 131) to match the 14 gauge 1 5/8" x 2 5/8" material selected for the beams of this structure.

Beam Configurations (See corresponding letters in table on following page for load data)

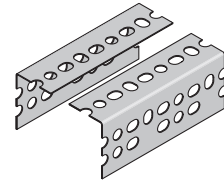
G – Two Single Pieces (Up)



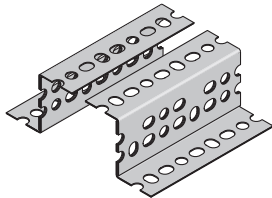
H – Two Single Pieces (Level)



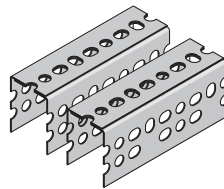
I – Two Single Pieces (Down)



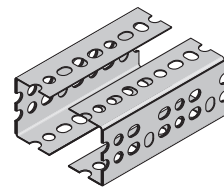
J – Two Z-Sections



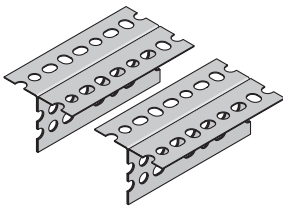
K – Two Narrow Channels



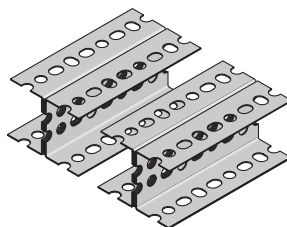
L – Two Broad Channels



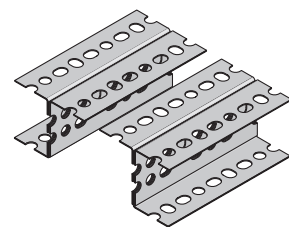
M – Two T-Sections



N – Two I-Section

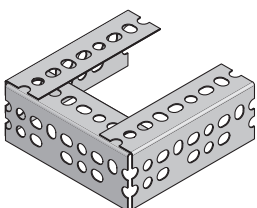


O – Two J-Sections

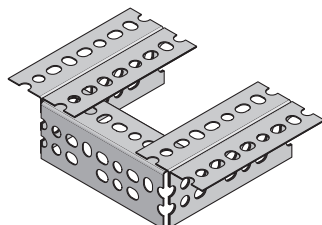


Beam Configurations With Stiffeners
 (See corresponding letters in table on following page for load data)

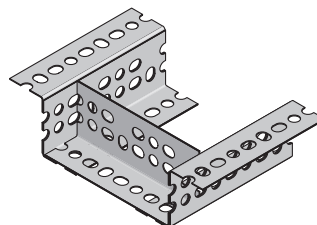
P – Single Pieces w/Stiffener



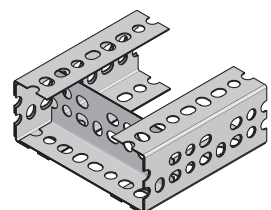
Q – T-Sections w/Stiffener

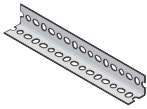


R – Z-Sections w/Stiffener



R – I-Sections w/Stiffener

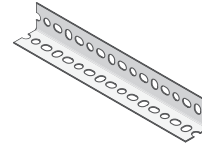




Beam Loads PA 158 – Light Duty (1⁵/₈" x 1⁵/₈" x 14 ga.)

Table 1

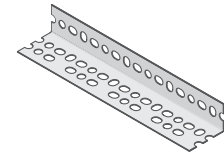
| Beam Span (Inches) | Beam Configuration (See Previous Page) Beam Load in Pounds* | | | | | | |
|--------------------|----------------------------------------------------------------|-----|-----|-----|-------|-------|-------|
| | G | H | I | P | L | R | M |
| | 24 | 550 | 830 | 830 | 920 | 1,600 | 1,700 |
| 36 | 370 | 560 | 560 | 610 | 1,070 | 1,130 | 1,230 |
| 48 | 280 | 420 | 420 | 460 | 800 | 850 | 920 |
| 60 | 220 | 330 | 330 | 370 | 640 | 680 | 740 |
| 72 | 180 | 280 | 280 | 310 | 530 | 570 | 610 |
| 84 | • | 240 | 240 | 260 | 460 | 490 | 530 |
| 96 | • | 210 | 210 | 230 | 400 | 430 | 460 |
| 108 | • | • | • | • | 360 | 380 | 410 |
| 120 | • | • | • | • | 320 | 340 | 370 |



Beam Loads PA 238 – Medium Duty (1⁵/₈" x 2³/₈" x 14 ga.)

Table 2

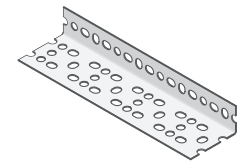
| Beam Span (Inches) | Beam Configuration (See Previous Page) - Beam Load in Pounds* | | | | | | | | | | | |
|--------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | G | H | I | P | J | L | R | M | K | Q | O | N |
| 24 | 700 | 1,020 | 1,660 | 1,740 | 2,220 | 3,170 | 3,230 | 3,490 | 3,590 | 3,630 | 6,060 | 7,560 |
| 36 | 460 | 680 | 1,100 | 1,160 | 1,480 | 2,110 | 2,150 | 2,320 | 2,390 | 2,420 | 4,040 | 5,040 |
| 48 | 350 | 510 | 830 | 870 | 1,110 | 1,580 | 1,620 | 1,740 | 1,800 | 1,810 | 3,030 | 3,780 |
| 60 | 280 | 410 | 660 | 700 | 890 | 1,270 | 1,290 | 1,390 | 1,440 | 1,450 | 2,420 | 3,020 |
| 72 | 230 | 340 | 550 | 580 | 740 | 1,060 | 1,080 | 1,160 | 1,200 | 1,210 | 2,020 | 2,520 |
| 84 | • | 290 | 470 | 500 | 630 | 910 | 920 | 1,000 | 1,030 | 1,040 | 1,730 | 2,160 |
| 96 | • | 260 | 410 | 440 | 550 | 790 | 810 | 870 | 900 | 910 | 1,520 | 1,890 |
| 108 | • | • | • | • | 490 | 700 | 720 | 770 | 800 | 810 | 1,350 | 1,680 |
| 120 | • | • | • | • | 440 | 630 | 650 | 700 | 720 | 730 | 1,210 | 1,510 |



Beam Loads PA 318 – Heavy Duty (1⁵/₈" x 3¹/₈" x 12 ga.)

Table 3

| Beam Span (Inches) | Beam Configuration (See Previous Page) - Beam Load in Pounds* | | | | | | | | | | | |
|--------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| | G | H | I | P | J | L | R | M | K | Q | O | N |
| 24 | 1,790 | 1,610 | 4,300 | 4,960 | 6,520 | 7,910 | 8,070 | 9,920 | 9,990 | 10,170 | 14,600 | 16,120 |
| 36 | 1,200 | 1,070 | 2,870 | 3,310 | 4,350 | 5,270 | 5,380 | 6,610 | 6,660 | 6,780 | 9,730 | 10,750 |
| 48 | 900 | 810 | 2,150 | 2,480 | 3,260 | 3,950 | 4,030 | 4,960 | 4,990 | 5,080 | 7,300 | 8,060 |
| 60 | 720 | 640 | 1,720 | 1,980 | 2,610 | 3,160 | 3,230 | 3,970 | 4,000 | 4,070 | 5,840 | 6,450 |
| 72 | 600 | 540 | 1,430 | 1,650 | 2,170 | 2,640 | 2,690 | 3,310 | 3,330 | 3,390 | 4,870 | 5,370 |
| 84 | • | 460 | 1,230 | 1,420 | 1,860 | 2,260 | 2,300 | 2,830 | 2,850 | 2,910 | 4,170 | 4,610 |
| 96 | • | 400 | 1,080 | 1,240 | 1,630 | 1,980 | 2,020 | 2,480 | 2,500 | 2,540 | 3,650 | 4,030 |
| 108 | • | • | • | 1,100 | 1,450 | 1,760 | 1,790 | 2,200 | 2,220 | 2,260 | 3,240 | 3,580 |
| 120 | • | • | • | 990 | 1,300 | 1,580 | 1,610 | 1,980 | 2,000 | 2,030 | 2,920 | 3,220 |

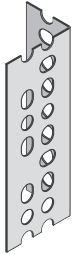


* Based on simple beam condition with uniform loads on parallel beams.
To determine concentrated load capacity at mid-span, multiply uniform load by 0.5.

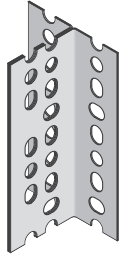
Column Sections

(See corresponding letters in table on right for load data)

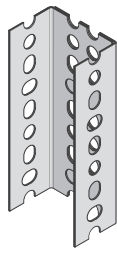
A – Single Piece



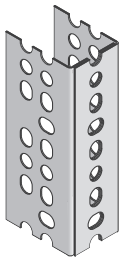
B – T-Section



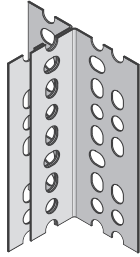
B – Broad Channel Section



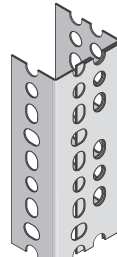
B – Narrow Channel Section



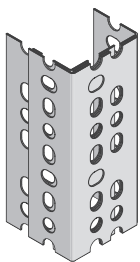
C – Uneven T-Section



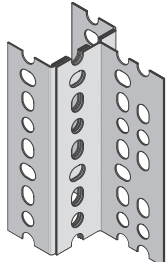
C – Uneven Channel Section



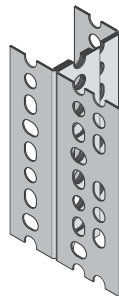
D – Dual Channel Section



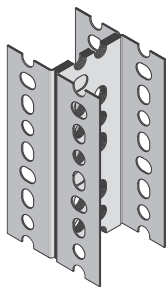
D – T-Channel Section



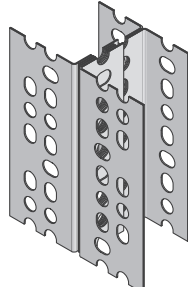
D – T-Channel Section



E – I-Section



F – Uneven I-Section

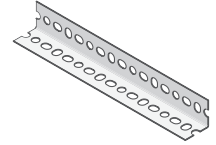


Column Load

PA 158 – Light Duty (1½" x 1½" x 14 ga.)

Table 4

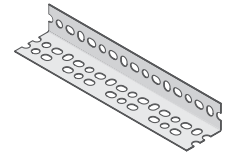
| Column Height (Inches) | Column Load in Pounds* | |
|------------------------|-----------------------------------------|-------|
| | Column Sections (See Left Side of Page) | |
| | A | B |
| 36" | 1,450 | 3,850 |
| 48" | 1,150 | 3,500 |
| 60" | 950 | 3,000 |
| 72" | 750 | 2,500 |



PA 238 – Medium Duty (1½" x 2¾" x 14 ga.)

Table 5

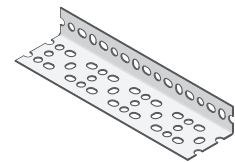
| Column Height (Inches) | Column Load in Pounds* | | | | | |
|------------------------|-----------------------------------------|-------|-------|-------|-------|-------|
| | Column Sections (See Left Side of Page) | | | | | |
| | A | B | C | D | E | F |
| 36" | 2,280 | 4,760 | 4,940 | 7,270 | 9,520 | 9,865 |
| 48" | 1,970 | 4,490 | 4,680 | 6,920 | 8,970 | 9,330 |
| 60" | 1,520 | 3,995 | 4,310 | 6,370 | 7,990 | 8,620 |
| 72" | 1,070 | 3,140 | 3,870 | 5,840 | 6,280 | 7,715 |
| 84" | 660 | 2,340 | 3,665 | 4,930 | 4,660 | 6,740 |
| 96" | • | 1,750 | 2,700 | 3,850 | 3,500 | 5,365 |
| 108" | • | • | 2,060 | 2,870 | • | 4,115 |
| 120" | • | • | 1,610 | 2,690 | • | 3,210 |



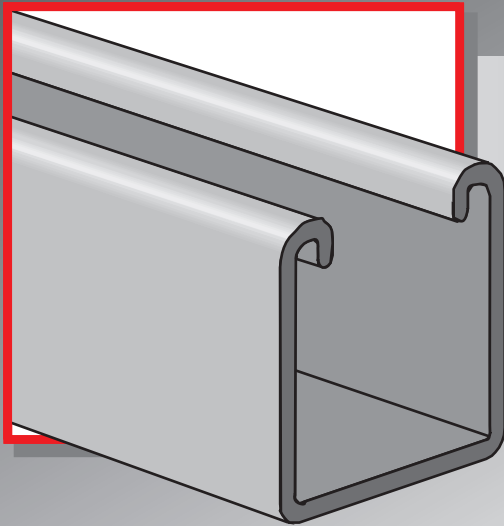
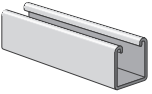
PA 318 – Heavy Duty (1½" x 3½" x 12 ga.)

Table 6

| Column Height (Inches) | Column Load in Pounds* | | | | | |
|------------------------|-----------------------------------------|-------|-------|--------|--------|--------|
| | Column Sections (See Left Side of Page) | | | | | |
| | A | B | C | D | E | F |
| 36" | 3,470 | 7,970 | 8,770 | 12,560 | 15,940 | 17,550 |
| 48" | 2,870 | 7,360 | 8,580 | 11,970 | 14,750 | 17,150 |
| 60" | 1,970 | 6,570 | 8,180 | 11,360 | 13,160 | 16,360 |
| 72" | 1,280 | 5,270 | 7,690 | 10,480 | 10,560 | 15,360 |
| 84" | • | 3,670 | 6,970 | 9,470 | 7,370 | 13,970 |
| 96" | • | 2,580 | 6,260 | 8,370 | 5,170 | 12,570 |
| 108" | • | • | 5,460 | 6,880 | • | 10,970 |
| 120" | • | • | 4,460 | 5,370 | • | 8,960 |



* Column Loads are concentric without intermediate lateral support.



FIBERGLASS

The installation of fiberglass channel and accessories is similar to the installation of metallic channel and accessories. All standard installation practices and procedures apply. In general, special handling is not required.

Fabrication of Aickinstrut components requires just three simple operations; cutting, drilling and sealing.

Aickinstrut Specifications

AICKINSTRUT FABRICATION

The installation of fiberglass channel and accessories is similar to the installation of metallic channel and accessories. All standard installation practices and procedures apply. In general, special handling is not required. Fabrication of Aickinstrut components requires just three simple operations; cutting, drilling and sealing as described below.

Cutting – Cutting can be accomplished with a wide variety of saws. Hand held saws, such as hack saws (24 to 32 teeth per inch) are suitable when a few number of cuts are required. For frequent cutting, a circular power saw with a carbide-tipped masonry blade yields the best results and the greatest number of cuts. When using a power saw, dust filter masks, gloves and long sleeve clothing should be worn.

Drilling – Any standard twist bit, even when used with battery-powered drills will work well. Carbide-tipped drill bits are recommended.

Sealing – To protect against future migration of corrosive elements into the cut sections, all cuts and holes should be properly sealed using Aickincoat or Aickinzap.

LABOR SAVINGS

Aickinstrut fiberglass structural members can be cut and drilled at a much faster rate than steel. Typically, fiberglass can be fabricated in less than half the time. As a result, substantial labor savings will be realized. Also, Aickinstrut products average 1/3 the weight of their steel counterparts, making them much easier to handle on the job site.

RELATIVE MATERIAL COSTS

Aickinstrut materials are advantageously priced relative to specialty metals traditionally used in corrosive environments. Aickinstrut, even though slightly more expensive than pre-galvanized channel, can be used with the knowledge that it will not have to be maintained regularly or replaced after a brief time. Should pre-galvanized channel have to be replaced once, its cost far outweighs the expense of doing the initial installation with Aickinstrut.

MATERIAL

The finished Aickinstrut application will utilize a combination of materials from the following resin families:

| Material Code | Material |
|---------------|----------------------------------|
| E | PVC (extruded) |
| P | Polyester (pultruded) |
| V | Vinyl ester (pultruded) |
| PU | Polyurethane (injection molded) |
| PP | Polypropylene (injection molded) |
| N | Nylon (injection molded) |

The ability of each material to handle high and low temperatures, chemical exposures and static loads is covered in each of the following sections. By using these criteria, you will be able to select the optimal Aickinstrut Channel, Fittings and Accessories for your particular applications.

OPERATING ENVIRONMENT

In order to design an Aickinstrut system for your application, consideration should be given to the maximum operating conditions. These “worst case” conditions will determine which type of Aickinstrut materials are best suited for your application. The three “worst case” operating conditions to consider are:

- Temperature
- Chemical Environment
- Loading

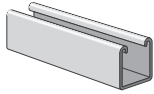
Temperature Ranges – Aickinstrut is supplied in six different materials covering distinct temperature ranges. Materials should be chosen which meet or exceed the minimum and maximum temperatures for your applications.

| Material Code | Low Temperature | High Temperature |
|---------------|-----------------|------------------|
| E | -25°F | 130°F |
| P | -35°F | 200°F |
| V | -35°F | 200°F |
| PU | -40°F | 140°F |
| PP | -30°F | 150°F |
| N | -20°F | 150°F |

The temperature ranges indicated are meant to be used only as a general guideline. Continual exposure to elevated temperatures reduces the strength properties of plastics and glass reinforced fiberglass. Actual resin test data confirms that a 50% reduction in strength occurs at the extreme high temperature levels.

Chemical Resistance – Each resin family has its own specifications regarding its performance against corrosion resistance. Use the following chart to determine which Aickinstrut material system will provide the best performance for your particular application. The results in the chart are based upon immersion for a 24 hour period. This is typically the “worst case” exposure to corrosion. Less severe contact such as spills, splashes and vapor condensate will exceed the performance results listed in the table.

Loading – Channel loading is defined on pages 140-141. Additional loading and design limitations for fittings and accessories are described in the appropriate section for that part.



Aickinstrut Specifications

1.0 SCOPE

- 1.1 This specification covers the requirements for the Aickinstrut Nonmetallic Channel Framing System.

2.0 MATERIAL

- 2.1 FRP channel shall be of pultruded glass reinforced polyester or vinyl ester resin having the physical property values listed in this catalog.
- 2.2 PVC channel shall be of extruded polyvinyl chloride having the physical property values listed in this catalog.
- 2.3 Some accessories shall be of injection molded, 40% long glass fiber reinforced polyurethane, polypropylene or nylon.

3.0 COMPOSITION

- 3.1 Glass reinforced channel shall have a synthetic surfacing veil applied on exterior surfaces to improve weatherability and inhibit ultraviolet degradation. An ultraviolet stabilizer shall be incorporated in the resin formulation to further inhibit ultraviolet degradation.
- 3.2 PVC channel shall be manufactured from a U.V. stabilized resin and incorporate dark gray pigment to improve weatherability and inhibit ultraviolet degradation.

4.0 STRUCTURAL DESIGN

- 4.1 Channel shall incorporate Aickinstrut's patented flange profile design which allows full and positive interlocking contact of channel accessories and prohibits premature flange failure from torqued accessories.
- 4.2 Channel profile dimensions shall be:
 - 1⁵/₈" x 1⁵/₈" x 1¹/₈",
 - 1¹/₂" x 1¹/₂" x 1¹/₈", or
 - 1¹/₂" x 1¹/₈" x 1¹/₈".
- 4.3 All 1⁵/₈" x 1⁵/₈" channel profiles shall have a minimum pull out resistance of 1,000 pounds when load is applied over a 3³/₈" long section of the inside flanges.

- 4.4 Channel section lengths shall be supplied in 10' or 20' lengths ($\pm 1/8"$).

- 4.5 Universal Pipe Clamps shall have full interlocking contact with interior channel flanges to maximize pull-out resistance and be adjustable to accommodate a minimum 3³/₄" variance in piping or conduit O.D. sizes.

5.0 STANDARDS

- 5.1 Glass reinforced and PVC channels covered in this specification shall have a flame spread rating of 25 or less when tested per ASTM E84 and meet the requirements of UL 94V0 thereby qualifying them as Class 1 material in the Uniform Building Code.
- 5.2 Glass reinforced channels covered in this specification shall comply with the requirements of ASTM D 3917 and ASTM D 4385 which govern the dimensional tolerance and visual defects of pultruded shapes.

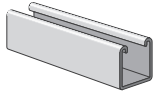
6.0 GENERAL

- 6.1 Aickinstrut Nonmetallic Channel Framing shall be furnished as a system which includes all the necessary fasteners, channel splice plates, brackets, sealants, hangers, pipe clamps, etc.
- 6.2 Nonmetallic fasteners shall be manufactured from long glass fiber reinforced polyurethane to ensure maximum strength and corrosion resistance.
- 6.3 All components of the Aickinstrut Channel Framing System shall be nonmetallic except where type 316 stainless steel hardware is used as part of the assembly.
- 6.4 Aickinstrut is manufactured by Aickinstrut, a subsidiary of T. J. Cope, Philadelphia, Pennsylvania, 1-800-426-4293.
- 6.5 The manufacturer shall not have had less than 10 years experience in manufacturing strut systems.
- 6.6 All products are manufactured in the United States of America.

Chemical Compatibility Table

| Chemical | Series E (Rigid PVC) 70°-160°F | | Series P (Poly/Glass) 70°-160°F | | Series V (Vinyl/Glass) 70°-160°F | | Series K (PVDF) 70°-160°F | | Series PU (Polyurethane) 70°-160°F | | Series N (Nylon) 70°-160°F | |
|---------------------------------------------------|--------------------------------------|----|---------------------------------------|------|----------------------------------------|------|---------------------------------|----|------------------------------------------|---|----------------------------------|----|
| | | | | | | | | | | | | |
| Acetic Acid, Up to 10% | R | R | R | R | R | R | R | R | R | – | NR | NR |
| Acetic Acid, Up to 50% | R | R | R | R | R | R | R | R | R | – | NR | NR |
| Acetone, Up to 10% | NR | NR | NR | NR | NR | NR | NR | NR | R | – | R | R |
| Aluminum Hydroxide | R | R | R | R | R | R | R | R | R | – | NR | NR |
| Ammonium Hydroxide (Aqueous Ammonia), Up to 5% | R | R | NR | NR | R | R | R | R | R | – | – | – |
| Ammonium Hydroxide, Up to 10% | R | R | NR | NR | R | 150° | R | R | R | – | – | – |
| Ammonium Hydroxide, Up to 20% | R | R | NR | NR | R | 150° | R | R | R | – | – | – |
| Ammonium Nitrate | R | NR | R | R | R | R | R | R | R | – | – | – |
| Ammonium Phosphate | R | R | R | NR | R | R | R | R | R | – | – | – |
| Ammonium Sulfide, saturated | R | R | NR | NR | R | 120° | R | R | R | – | – | – |
| Aqua Regia, fumes | NR | NR | NR | NR | R | 150° | R | R | NR | – | – | – |
| Benzene | NR | NR | NR | NR | NR | NR | NR | R | R | R | R | R |
| Benzoic Acid | R | R | R | R | R | R | R | R | R | – | – | – |
| Bromine, wet gas | R | NR | NR | NR | R | 100° | R | R | – | – | – | – |
| Butylene Glycol, Up to 100% | R | R | R | R | R | R | R | R | R | – | R | R |
| Butyric Acid, Up to 50% | NR | NR | R | R | R | R | R | R | R | – | – | – |
| Calcium Hydroxide | R | R | R | NR | R | R | R | R | R | – | – | – |
| Calcium Hypochlorite | R | R | R | NR | R | R | R | R | R | – | NR | NR |
| Chlorine, Dry Gas | NR | NR | NR | NR | R | R | R | R | – | – | – | – |
| Chlorine, Wet Gas | NR | NR | NR | NR | R | R | R | R | – | – | – | – |
| Chlorine, Liquid | NR | NR | NR | NR | NR | NR | R | R | – | – | – | – |
| Chlorine, Water | NR | NR | R | R | R | R | R | R | R | – | NR | NR |
| Chromic Acid, Up to 5% | R | R | NR | NR | R | R | R | R | – | – | R | R |
| Copper Chloride | R | R | R | R | R | R | R | R | R | – | – | – |
| Copper Cyanide | R | R | R | NR | R | R | R | R | R | – | – | – |
| Copper Fluoride | R | R | R | NR | R | R | R | R | R | – | – | – |
| Copper Nitrate | R | R | R | R | R | R | R | R | R | – | – | – |
| Copper Sulfate | R | R | R | R | R | R | R | R | R | – | – | – |
| Dechlorinated Brine Storage | R | R | – | – | R | R | R | R | R | – | – | – |
| Esters, Fatty Acid | NR | NR | R | R | R | R | R | R | R | – | – | – |
| Ferric Chloride | R | R | R | R | R | R | R | R | R | – | – | – |
| Ferrous Chloride | R | R | R | R | R | R | R | R | R | – | – | – |
| Fluoboric Acid | R | R | R | 120° | R | R | R | R | – | – | – | – |
| Fluosilicic Acid, Up to 10% | NR | NR | NR | NR | R | R | R | R | – | – | NR | NR |
| Fluosilicic Acid, Up to 32% | NR | NR | NR | NR | R | 100° | R | R | – | – | – | – |
| Formic Acid, Up to 10% | R | R | NR | NR | R | R | R | R | R | – | NR | NR |
| Formic Acid, Up to 50% | R | R | NR | NR | R | 100° | R | R | R | – | – | – |
| Gasoline, Aviation | R | NR | R | NR | R | R | R | R | R | – | – | – |
| Green Liquor, Pulp Mill | R | R | – | – | R | R | R | R | – | – | – | – |
| Hydrochloric Acid Up to 15% | R | R | R | NR | R | R | R | R | R | – | – | – |
| Hydrochloric Acid Up to 37% | R | R | R | NR | R | R | R | R | R | – | – | – |
| Hydrofluoric Acid, Up to 10% | R | R | NR | NR | R | 150° | R | R | – | – | – | – |
| Hydrofluoric Acid, Up to 20% | R | NR | NR | NR | R | 100° | R | R | – | – | – | – |
| Hydrogen Chloride, Wet Gas | NR | NR | R | NR | R | R | R | R | NR | – | – | – |
| Hydrogen Sulfide, Wet Gas | R | R | R | NR | R | R | R | R | R | – | – | – |

Legend: "NR" indicates "Not Recommended" for use;
 "R" indicates "Recommended";
 "–" indicates no information available



Chemical Compatibility Table

| Chemical | Series E (Rigid PVC) 70°-160°F | | Series P (Poly/Glass) 70°-160°F | | Series V (Vinyl/Glass) 70°-160°F | | Series K (PVDF) 70°-160°F | | Series PU (Polyurethane) 70°-160°F | | Series N (Nylon) 70°-160°F | |
|---------------------------------------------|--------------------------------------|----|---------------------------------------|----|----------------------------------------|------|---------------------------------|----|------------------------------------------|---|----------------------------------|----|
| | R | R | R | NR | R | R | R | R | R | - | - | - |
| Lactic Acid | R | R | R | NR | R | R | R | R | R | - | - | - |
| Lead Nitrate | R | R | - | - | R | R | R | R | R | - | - | - |
| Magnesium Hydroxide | R | R | NR | NR | R | R | R | R | R | - | R | R |
| Nickel Sulfate, Low pH | R | R | NR | NR | R | R | R | R | R | - | - | - |
| Nickel Sulfate, High pH | R | R | NR | NR | R | R | R | R | R | - | - | - |
| Nitric Acid, Up to 5% | R | R | NR | NR | R | 150° | R | R | R | - | - | - |
| Nitric Acid, Up to 35% | R | R | NR | NR | R | 150° | R | R | R | - | - | - |
| Nitric Acid, Vapor | R | R | NR | NR | R | R | R | R | - | - | - | - |
| Perchloric Acid, Up to 10% | NR | NR | NR | NR | R | 150° | R | R | - | - | NR | NR |
| Pickling Liquids, 3-5% H2SO4 | R | R | R | R | R | R | R | R | R | - | - | - |
| Phosphoric Acid | R | R | NR | NR | R | R | R | R | R | - | NR | NR |
| Phosphoric Acid, Super or Poly (115%, P20%) | R | R | NR | NR | R | R | R | R | - | - | - | - |
| Phosphoric Acid Vapor or Condensate | R | R | NR | NR | R | R | R | R | - | - | - | - |
| Potassium Chloride | R | R | R | R | R | R | R | R | R | - | - | - |
| Potassium Nitrate | R | R | R | R | R | R | R | R | R | - | - | - |
| Potassium Persulfate | R | R | NR | NR | R | R | R | R | R | - | - | - |
| Silver Cyanide, Up to 5% | R | R | NR | NR | R | R | R | R | R | - | - | - |
| Sodium Hydroxide, Up to 25% | R | R | NR | NR | R | 150° | R | R | R | - | - | - |
| Sodium Hydroxide, up to 50% | R | R | NR | NR | R | 180° | R | R | - | - | R | R |
| Sodium Hypochlorite, Up to 15% | R | R | NR | NR | R | 150° | R | R | R | - | NR | NR |
| Sodium Nitrate | R | R | R | R | R | R | R | R | R | - | - | - |
| Sodium Sulfate | R | R | R | NR | R | R | R | R | R | - | - | - |
| Sodium Sulfide | R | R | NR | NR | R | R | R | R | R | - | - | - |
| Sulfuric Acid, Up to 25% | R | R | R | R | R | R | R | R | R | - | NR | NR |
| Sulfuric Acid, Up to 50% | R | R | NR | NR | R | R | R | R | R | - | - | - |
| Sulfuric Acid, Up to 70% | R | R | NR | NR | R | R | R | R | R | - | NR | NR |
| Sulfuric Acid, Up to 75% | NR | NR | NR | NR | R | 120° | R | R | - | - | NR | NR |
| Sulfuric Acid, Up to 80% | NR | NR | NR | NR | NR | NR | NR | NR | - | - | NR | NR |
| Sulfuric Acid, Vapor | R | R | R | NR | R | R | R | R | - | - | - | - |
| Trichlorethylene, Fumes | NR | NR | NR | NR | R | 120° | R | R | NR | - | - | - |
| Trisodium Phosphate | R | R | R | NR | R | R | R | R | R | - | - | - |
| Urea | R | R | R | NR | R | 150° | R | R | R | - | R | R |
| Vegetable Oils | R | R | R | R | R | R | R | R | R | - | R | R |
| Vinegar | R | R | R | R | R | R | R | R | R | R | R | R |
| White Liquor, Pulp Mill | R | R | - | - | R | R | R | R | - | - | - | - |

Note: The recommendations contained in this table are made without guarantee of representation as to results. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by T.J. Cope, Inc. as to effects of such use or results to be obtained nor does T.J. Cope, Inc. assume any liability arising out of the use by others of the products referenced in this table. Nor is the information herein to be construed as absolutely complete since additional information may be needed or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material.

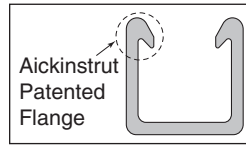
Legend: "NR" indicates "Not Recommended" for use; "R" indicates "Recommended"; "-" indicates no information available

Metal Channel
Fasteners
Fittings
Clamps
Pipe & Conduit
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

Channel

CHANNEL FRAMING

All Aickinstrut channels, except the SST series, incorporate a patented flange design which provides reliable fastening and interlocking of Aickinstrut components and accessories.



Channels are provided in standard lengths of 10' with longer lengths available upon request. Aickinstrut single channels come packaged in boxes of 100' (10 pieces) while the double channels are packaged in boxes containing 40' (4 pieces).

Aickinstrut channel is available in three materials:

- Polyester (P material),
- Vinyl Ester (V material) and
- PVC (E material)

POLYESTER AND VINYL ESTER MATERIALS

The polyester and vinyl ester channels are manufactured from the pultrusion process. In this process, the component is made by reinforcing a polymer resin (polyester or vinyl ester) with multiple strands of glass filament, alternating layers of glass mat and U.V. resistant surfacing veils. The glass is drawn through the liquid resin, which coats and saturates the fibers. The combination of resin, glass and veil is then continuously guided and pulled (pultruded) through a heated die that determines the shape of the component.

In the die, the resin is cured to form a permanent, reinforced part which can be cut to a specific length. Since the hardened fiberglass pultrusion is reinforced with and internal arrangement of permanently bonded continuous glass fibers, it possesses great strength.

In addition, pultruded fiberglass components exhibit exceptional corrosion and fire resistance. These attributes make fiberglass the material of choice for many harsh industrial applications.

The polyester and vinyl ester channels are color coded. Polyester channels are colored gray and the vinyl ester channels are colored beige.

PVC MATERIALS

The PVC channels are manufactured from the extrusion process. In this process, the component is made by a PVC resin mixture being continuously fed through a heated die that determines the shape of the component.

In the die, the resin is cured to form a permanent, extruded part that can be cut to a specific length. Unlike pultruded components, extruded components do not incorporate glass-reinforcement; consequently, they do not exhibit the same beam strength as their pultruded counterparts. PVC components, however; exhibit exceptional corrosion and fire resistance. These features make PVC channels an excellent alternative when excessive beam strength is not required. PVC channels are color coded dark gray.

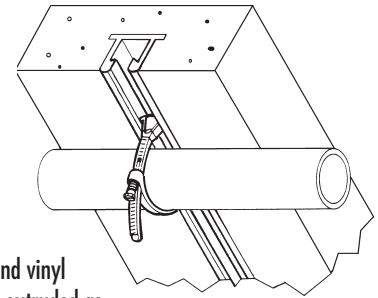
CHANNEL AVAILABILITY CHART

The following chart illustrates the availability of materials in the different channel profiles.

| Channel Profile | Polyester (P) | Vinyl Ester (V) | PVC (E) |
|-------------------------|---------------|-----------------|---------|
| Series 2000, 2200, 2300 | X | X | X |
| Series 1500, 1700, 1800 | X | X | N/A |
| Series 1000, 1200, 1300 | X | X | X |
| Series 2100 | X | X | N/A |
| Series 1600 | X | X | N/A |
| Series 1100 | X | X | N/A |

CONCRETE EMBEDMENT CHANNEL PART NO. – 20E-2300

In certain applications, it is necessary to embed a corrosion resistant channel into a new pouring of concrete. For these applications, Aickinstrut concrete embedment channel is recommended. Aickinstrut concrete embedment channel is available in three material types; PVC, polyester and vinyl ester. The PVC embedment channel is extruded as one piece while the polyester and vinyl ester embedment channel is a two piece bonded type design. The PVC embedment channel is available in the 1 5/8" and 1 1/8" profiles while polyester and vinyl ester embedment channels are available in all three profiles (1 5/8", 1 1/2" & 1 1/8").

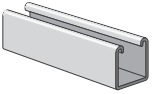


The embedment channel utilizes two continuous protruding flanges in the profile base to retain the channel in the concrete. Mounting the embedment channel flush with the concrete surface is a convenient way to secure piping, conduits or electrical enclosures to a wall or ceiling. The PVC embedment channel is extremely high in strength. When embedded in 3,000 PSI concrete, the concrete will fail before the channel is pulled out.

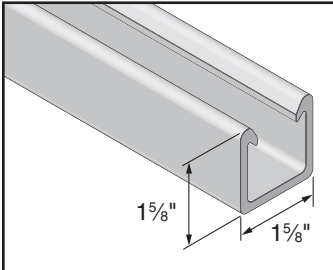
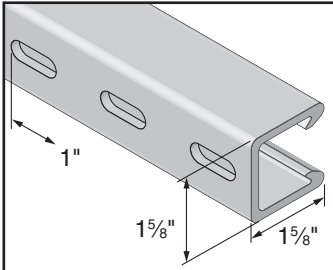
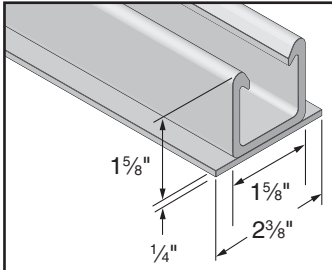
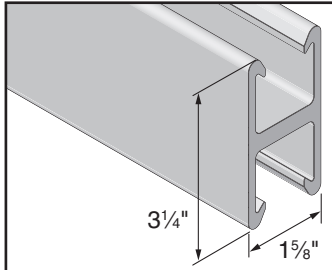
AICKINSTRUT SST CHANNEL

Aickinstrut SST Fiberglass Channel incorporates a standard channel profile that will accommodate metallic pipe straps and clamps. SST channel is available in polyester or vinyl ester resin. All standard styles (solid, slotted, concrete insert and back-to-back) are also available. Please contact the factory for loading information for the SST Channel.

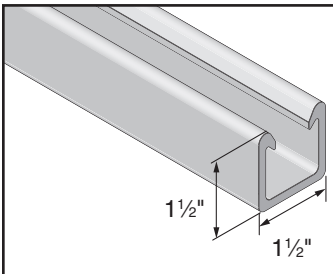
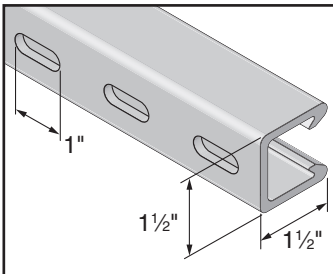
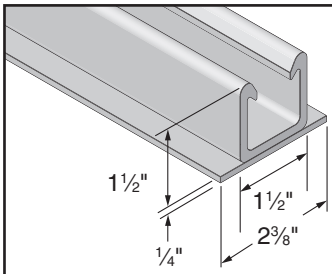
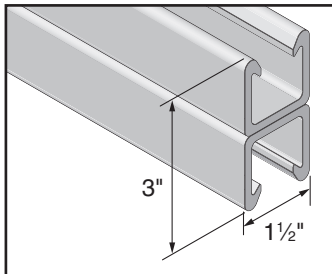
Note: Aickinstrut SST Channel is not compatible with the Aickinstrut pipe clamps, channel nuts, and grooved fittings shown in this catalog. Please contact Aickinstrut for information on a complete line of compatible clamps and channel nuts.



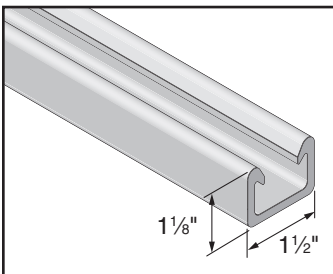
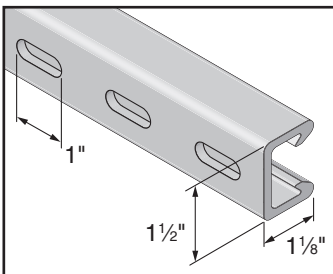
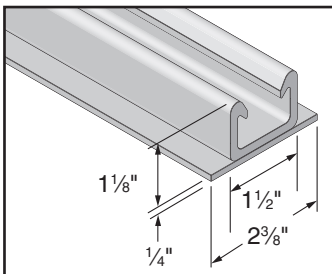
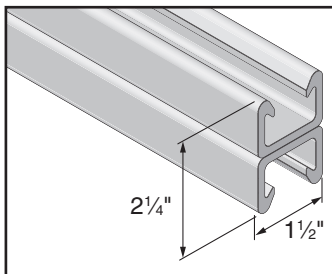
HEAVY DUTY CHANNEL – AICKINSTRUT PROFILE

| Standard 20P-2000, 20V-2000, 20E-2000 | Slotted (1" x 3/8" Holes) 20P-2200, 20V-2200, 20E-2200 | With Concrete Inserts 20P-2300, 20V-2300, 20E-2300 | Back-to-Back 20P-2100, 20V-2100 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |

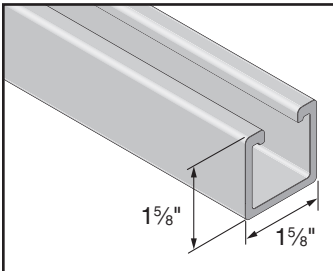
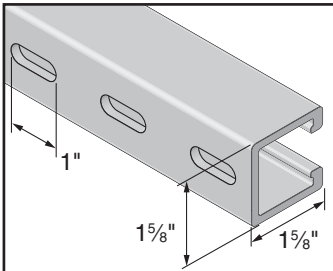
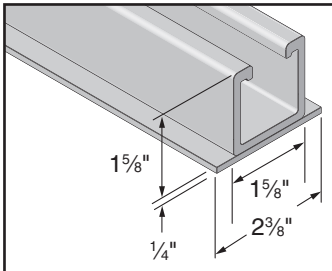
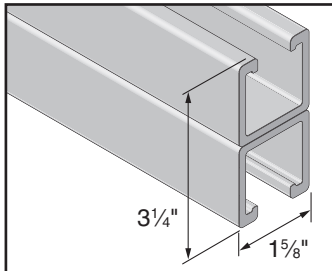
MEDIUM DUTY CHANNEL – AICKINSTRUT PROFILE

| Standard 20P-1500, 20V-1500 | Slotted (1" x 3/8" Holes) 20P-1700, 20V-1700 | With Concrete Inserts 20P-1800, 20V-1800 | Back-to-Back 20P-1600, 20V-1600 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |

LIGHT DUTY CHANNEL – AICKINSTRUT PROFILE

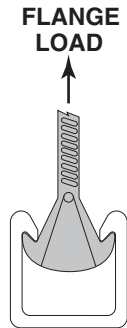
| Standard 20P-1000, 20V-1000, 20E-1000 | Slotted (1" x 3/8" Holes) 20P-1200, 20V-1200, 20E-1200 | With Concrete Inserts 20P-1300, 20V-1300, 20E-1300 | Back-to-Back 20P-1100, 20V-1100 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |

HEAVY DUTY CHANNEL – STANDARD PROFILE

| Standard 20P-2000-SST, 20V-2000-SST | Slotted (1" x 3/8" Holes) 20P-2200-SST, 20V-2200-SST | With Concrete Inserts 20P-2300-SST, 20V-2300-SST | Back-to-Back 20P-2100-SST, 20V-2100-SST |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |

Flange Loading

Pull-out strength is the channel's resistance to a clamp or fastener inserted under the flange and put under tension. For additional information concerning specific channels, materials and their pull-out strengths, refer to the channel flange pull-out chart on the right.



| Heavy Duty Channel | Pull-Out Strength* |
|---------------------|--------------------|
| 20V-2000 | 449 |
| 20P-2000 | 360 |
| 20E-2000 | 260 |
| Medium Duty Channel | Pull-Out Strength* |
| 20V-1500 | 229 |
| 20P-1500 | 219 |
| Light Duty Channel | Pull-Out Strength* |
| 20E-1000 | 239 |
| 20P-1000 | 213 |
| 20V-1000 | 213 |

*Values shown represent a 3:1 safety factor

Section Properties



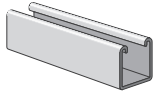
| Section Number | Height (in.) | Width (in.) | Weight (lbs./ft.) | Area (in. ²) | X - X Axis | | | | Y - Y Axis | | |
|----------------|--------------|-------------|-------------------|--------------------------|-----------------------|---------|----------------------|----------------------|-----------------------|---------|---------|
| | | | | | I (in. ⁴) | R (in.) | C ¹ (in.) | C ² (in.) | I (in. ⁴) | R (in.) | C (in.) |
| 2000 | 1½ | 1½ | 0.82 | 1.06 | 0.31 | 0.54 | 0.70 | 0.93 | 0.42 | 0.63 | 0.82 |
| 2100 | 3½ | 1½ | 1.64 | 2.12 | 1.77 | 0.91 | 1.63 | 1.63 | 0.85 | 0.63 | 0.82 |
| 1500 | 1½ | 1½ | 0.55 | 0.71 | 0.19 | 0.52 | 0.62 | 0.88 | 0.25 | 0.59 | 0.75 |
| 1600 | 3 | 1½ | 1.10 | 1.42 | 1.02 | 0.85 | 1.50 | 1.50 | 0.49 | 0.59 | 0.75 |
| 1000 | 1½ | 1½ | 0.47 | 0.61 | 0.10 | 0.40 | 0.51 | 0.62 | 0.22 | 0.60 | 0.75 |
| 1100 | 2½ | 1½ | 0.94 | 1.22 | 0.42 | 0.59 | 1.13 | 1.13 | 0.44 | 0.60 | 0.75 |

Beam Loading - PVC

The data listed in the Beam Loading Chart reflects testing conducted on Polyester (Type P) and vinyl ester (Type V) channels. PVC (Type E) material will differ from the Polyester/Vinyl ester Beam Loading Chart. To obtain the beam loading for PVC channel, reduce the load as follows:

$$\text{PVC Beam Load} = \frac{(\text{Polyester/Vinyl Ester Beam Load})}{4}$$

Note: PVC is not recommended for lengths over 24"



Polyester/Vinyl Ester Beam Loading Chart

| Span | Part No. | Max. Uniform Beam Load (Safety Factor - 3:1) Load (lbs.) | Uniform Load at Defl. of 1/360 Span Deflection (in.) | Maximum Column Load (lbs.) | Deflection (in.) | Load (lbs.) |
|----------|------------|----------------------------------------------------------------|------------------------------------------------------------|----------------------------------|---------------------|----------------|
| 12" Span | 20P/V-2100 | 5,559 | 0.028 | 5,559 | 0.033 | 9,454 |
| | 20P/V-1600 | 4,836 | 0.043 | 3,778 | | 7,007 |
| | 20P/V-1100 | 3,804 | 0.082 | 1,556 | | 5,961 |
| | 20P/V-2000 | 3,561 | 0.102 | 1,159 | | 5,160 |
| | 20P/V-1500 | 1,950 | 0.093 | 700 | | 3,439 |
| | 20P/V-1000 | 1,629 | 0.151 | 359 | | 2,759 |
| 18" Span | 20P/V-2100 | 3,706 | 0.064 | 2,914 | 0.050 | 8,866 |
| | 20P/V-1600 | 3,224 | 0.096 | 1,697 | | 6,501 |
| | 20P/V-1100 | 2,536 | 0.183 | 691 | | 5,509 |
| | 20P/V-2000 | 2,374 | 0.230 | 515 | | 4,704 |
| | 20P/V-1500 | 1,300 | 0.209 | 311 | | 3,136 |
| | 20P/V-1000 | 1,086 | 0.340 | 160 | | 2,351 |
| 24" Span | 20P/V-2100 | 2,780 | 0.113 | 1,639 | 0.067 | 8,181 |
| | 20P/V-1600 | 2,418 | 0.171 | 944 | | 5,909 |
| | 20P/V-1100 | 1,902 | 0.326 | 389 | | 4,979 |
| | 20P/V-2000 | 1,781 | 0.410 | 290 | | 4,168 |
| | 20P/V-1500 | 975 | 0.371 | 175 | | 2,778 |
| | 20P/V-1000 | 815 | 0.605 | 90 | | 1,862 |
| 30" Span | 20P/V-2100 | 2,224 | 0.177 | 1,049 | 0.083 | 7,405 |
| | 20P/V-1600 | 1,934 | 0.267 | 604 | | 5,236 |
| | 20P/V-1100 | 1,522 | 0.509 | 249 | | 4,375 |
| | 20P/V-2000 | 1,424 | 0.640 | 185 | | 3,553 |
| | 20P/V-1500 | 780 | 0.580 | 112 | | 2,369 |
| | 20P/V-1000 | 652 | 0.945 | 57 | | 1,298 |
| 36" Span | 20P/V-2100 | 1,853 | 0.254 | 730 | 0.100 | 6,451 |
| | 20P/V-1600 | 1,612 | 0.384 | 420 | | 4,482 |
| | 20P/V-1100 | 1,268 | 0.734 | 173 | | 3,698 |
| | 20P/V-2000 | 1,187 | 0.922 | 129 | | 2,859 |
| | 20P/V-1500 | 650 | 0.836 | 78 | | 1,906 |
| | 20P/V-1000 | 543 | 1.360 | 40 | | 901 |
| 48" Span | 20P/V-2100 | 1,390 | 0.452 | 410 | 0.133 | 4,534 |
| | 20P/V-1600 | 1,209 | 0.683 | 236 | | 2,809 |
| | 20P/V-1100 | 951 | 1.304 | 97 | | 2,254 |
| | 20P/V-2000 | 890 | 1.638 | 72 | | 1,636 |
| | 20P/V-1500 | 488 | 1.486 | 44 | | 1,091 |
| | 20P/V-1000 | 407 | 2.418 | 22 | | 507 |
| 60" Span | 20P/V-2100 | 1,112 | 0.707 | 262 | 0.167 | 2,902 |
| | 20P/V-1600 | 967 | 1.067 | 151 | | 1,798 |
| | 20P/V-1100 | 761 | 2.038 | 62 | | 1,442 |
| | 20P/V-2000 | 712 | 2.560 | 46 | | 1,047 |
| | 20P/V-1500 | 390 | 2.321 | 28 | | 698 |
| | 20P/V-1000 | 326 | 3.779 | 14 | | 324 |
| 72" Span | 20P/V-2100 | 927 | 1.018 | 182 | 0.200 | 2,015 |
| | 20P/V-1600 | 806 | 1.536 | 105 | | 1,248 |
| | 20P/V-1100 | 634 | 2.935 | 43 | | 1,001 |
| | 20P/V-2000 | 594 | 3.686 | 32 | | 727 |
| | 20P/V-1500 | 325 | 3.343 | 19 | | 485 |
| | 20P/V-1000 | 272 | 5.441 | 10 | | 225 |

FIBERGLASS



Channel Fittings

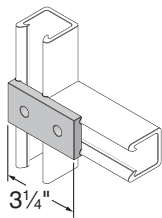
AickinStrut Channel Fittings are required to fabricate an AickinStrut structure and are easily attached to AickinStrut Channels with channel nuts and polyurethane fasteners. The fittings are offered in two types; fabricated (cut from flat stock) or molded. Fabricated fittings are made from either polyester or vinyl ester material. All molded fittings with the exception of the post bases are molded in polyurethane. Post bases are also offered in polypropylene.

The 2500 Series Fittings are manufactured from 1/2" flat material. The 2800 Series Fittings are manufactured from 3/8" flat material and feature grooves which stabilize the fittings when mounted to the open side of the channel. All channel fittings are provided with 13/32" holes which accommodate 3/8" hardware, however several of the new molded fittings come with 1/16" holes 50PU-2616, 50PU-2611, and 50PU-2613. Larger diameter holes can be provided upon special request.

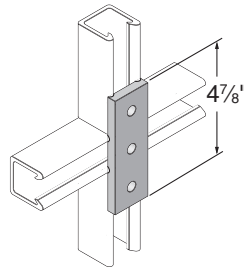
| Legend |
|-----------------------------|
| R = Right Hand |
| L = Left Hand |
| P Series Fittings are Grey |
| V Series Fittings are Beige |
| 2500 Series - Flat |
| 2800 Series - Grooved |

Note: Illustrations depict grooved channel fittings.

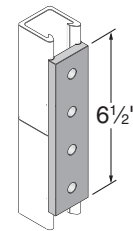
20P-2500, 20V-2500 (Flat)
20P-2800, 20V-2800 (Grooved)



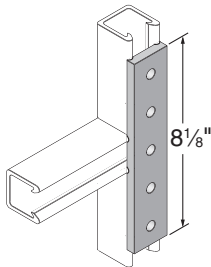
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20P-2802, 20V-2802 (Grooved)



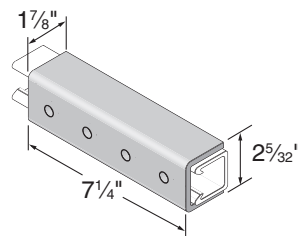
20P-2504, 20V-2504 (Flat)
20P-2804, 20V-2804 (Grooved)



20P-2506, 20V-2506 (Flat)
20P-2806, 20V-2806 (Grooved)

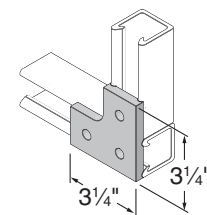


50PU-2616

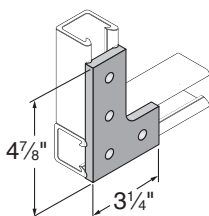


Note: 1/16" diameter holes

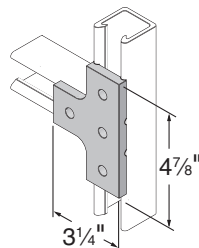
20P-2508, 20V-2508 (Flat)
20P-2808, 20V-2808 (Grooved)



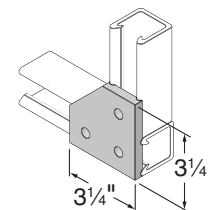
20P-2510, 20V-2510 (Flat)
20P-2810R, 20V-2810R (Grvd)
20P-2810L, 20V-2810L (Grvd)

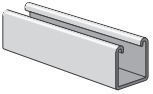


20P-2512, 20V-2512 (Flat)
20P-2812, 20V-2812 (Grooved)

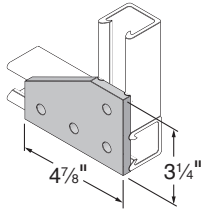


20P-2514, 20V-2514 (Flat)
20P-2814, 20V-2814 (Grooved)

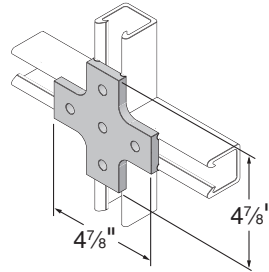




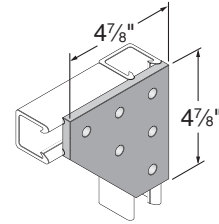
20P-2516, 20V-2516 (Flat)
20P-2816R, 20V-2816R (Grvd)
20P-2816L, 20V-2816L (Grvd)



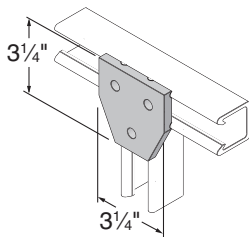
20P-2518, 20V-2518 (Flat)
20P-2818, 20V-2818 (Grooved)



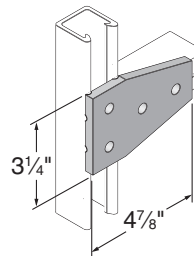
20P-2520, 20V-2520 (Flat)
20P-2820, 20V-2820 (Grooved)



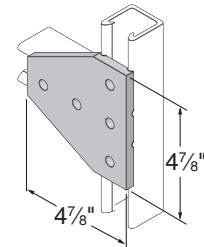
20P-2522, 20V-2522 (Flat)
20P-2822, 20V-2822 (Grooved)



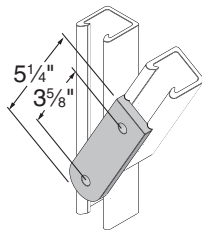
20P-2524, 20V-2524 (Flat)
20P-2824, 20V-2824 (Grooved)



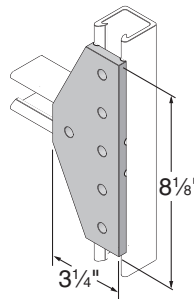
20P-2526, 20V-2526 (Flat)
20P-2826, 20V-2826 (Grooved)



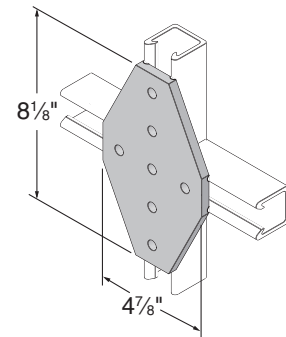
20P-2528, 20V-2528 (Flat)
20P-2828, 20V-2828 (Grooved)



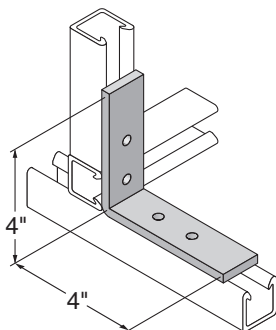
20P-2530, 20V-2530 (Flat)
20P-2830, 20V-2830 (Grooved)



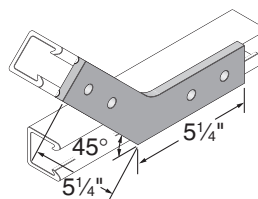
20P-2534, 20V-2534 (Flat)
20P-2834, 20V-2834 (Grooved)



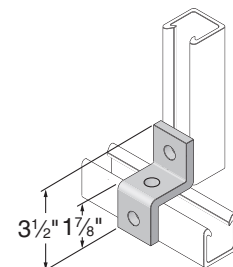
20P-2541, 20V-2541 (Flat)



20P-2540, 20V-2540 (Flat)
20P-2840, 20V-2840 (Grooved)



50PU-2611 (Flat)

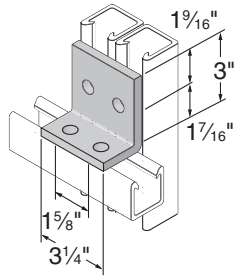


FIBERGLASS

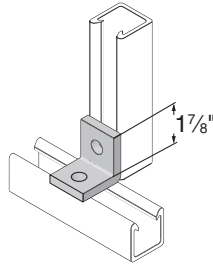
Channel Fittings



20P-2542, 20V-2542 (Flat)

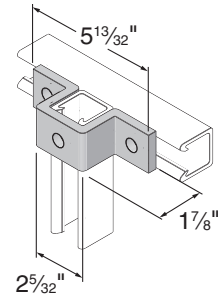


50PU-2611-SP



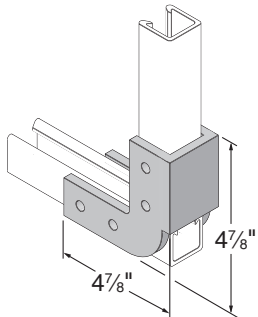
Note: 9/16" diameter holes

50PU-2613 (Flat)

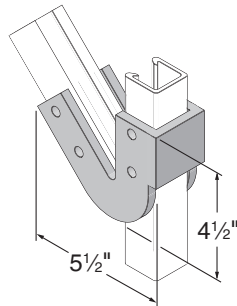


Note: 9/16" diameter holes

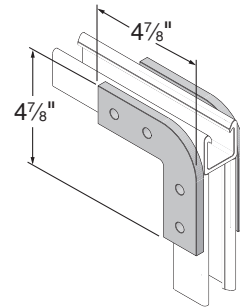
50PU-1508 (1 1/2") 50PU-2008 (1 5/8")



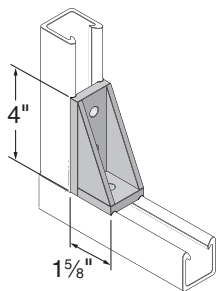
50PU-2045 (1 5/8")



50PU-2090 (1 5/8")

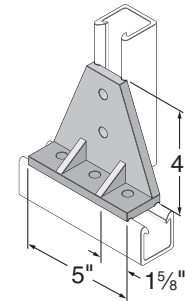


50PU-2636¹, 50PU-2636A², 50PU-2636B³, 50PU-2936⁴

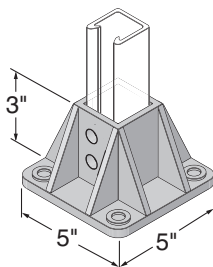


- 1) 50PU-2636 – Flat, without splines
- 2) 50PU-2636A – Splines on long side only
- 3) 50PU-2636B – Splines on short side only
- 4) 50PU-2936 – Splines on both long and short sides

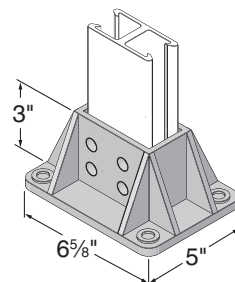
50PU-2538 (Flat)

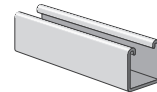


20PU-5853 (1 5/8"), 20PU-5854 (1 1/2"), 20PU-5855 (1 5/8"), 20PP-5853 (1 5/8"), 20PP-5854 (1 1/2"), 20PP-5855 (1 1/2")



20PU-5903 (3 1/4"), 20PU-5904 (3"), 20PU-5905 (2 1/4"), 20PP-5903 (3 1/4"), 20PP-5904 (3"), 20PP-5905 (2 1/4")



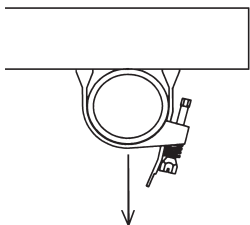


Aickinclamps Design Load Information

There are two types of piping system loadings, overhead (Type 1) and vertical (Type 2) as described below. All Aickinstrut pipe straps and clamps show the recommended loading for both types of loading.

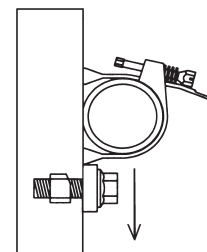
TYPE 1 DESIGN LOAD

The design load shown represents pipes supported below the strut. The design loads shown are based on a minimum ultimate failure safety factor of 3:1.



TYPE 2 DESIGN LOAD

The design loading shown can be achieved with the addition of a vertical stop lock assembly (Part #200-4219) installed directly beneath the pipe clamp. The adjacent illustration shows how the vertical stop lock assembly provides additional support for pipe and how it can be used to achieve full Type 2 design loads.



Design loads are based on a minimum clamp slip safety factor of 3:1. It is recommended that stop lock assemblies be used for all vertical pipe support applications.

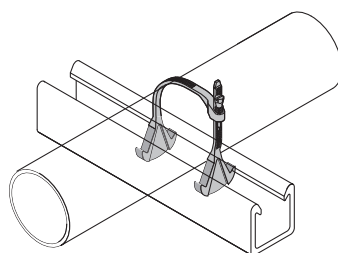
200-3100 thru 200-3210 - Adjustable Pipe Clamps

Aickinstrut Adjustable Pipe Clamps are manufactured from glass-reinforced polyurethane and are adjustable to accommodate a wide range of outside diameters. They can be utilized with a variety of piping systems including: PVC, fiberglass, copper, rigid steel conduit and PVC coated rigid steel conduit. Aickinclamps sized 6½" – 20" are to be used only in non-load bearing applications. These are applications where the weight of the pipe is being supported by Aickinstrut structural members (see figure on right). Aickinclamps can safely be used in temperatures

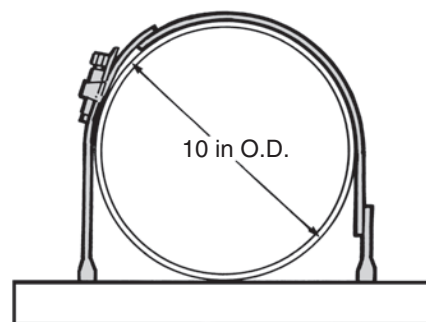
up to 160°F. For operating temperatures of 160-230°F, it is recommended to use PVDF clamps. PVDF clamps are available as a special order. Contact the factory for pricing and availability. Care should be taken not to exceed 3 ft./lbs. of torque on the adjustable pipe straps.

| Part Number | O.D. Pipe Size (in.) | Design Load (lbs.)* | | Torque (ft./lbs.) |
|-------------|----------------------|---------------------|--------|-------------------|
| | | Type 1 | Type 2 | |
| 200-3100 | ½–1½ | 135 | 65 | 10 in./lbs. |
| 200-3110 | 1½–2¼ | | | |
| 200-3120 | 2¼–3¼ | 215 | 70 | 3 |
| 200-3130 | 3–4 | | | |
| 200-3140 | 4–6½ | | | |
| 200-3150 | 6½–8 | Non-Load Bearing | | |
| 200-3160 | 8–10 | | | |
| 200-3170 | 10–12 | | | |
| 200-3180 | 12–14 | | | |
| 200-3190 | 14–16 | | | |
| 200-3200 | 16–18 | | | |
| 200-3210 | 18–20 | | | |

*Design loads shown represent a 3:1 safety factor.

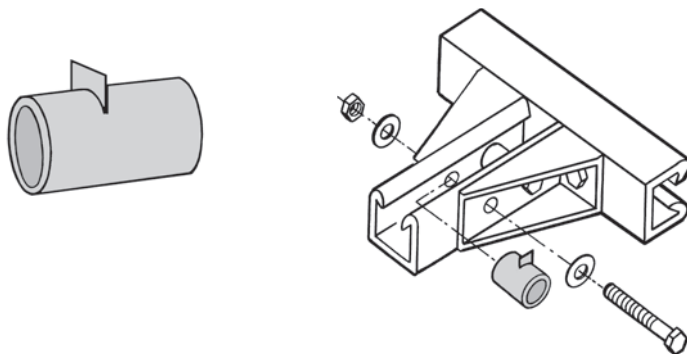


200-3100 to 200-3140



200-3150 to 200-3210

50PU-500SP - Channel Spacers



Channel spacers are designed to prevent wall compression under heavy loading conditions. Such loading occurs during the torquing of hardware for channel fittings. The spacers are molded from polyurethane and will accommodate ¾" and ½" bolts. The spacers are designed to be used only with 1½" and 1½" channels.

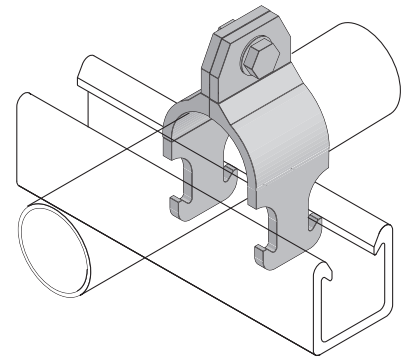
PCR – Rigid Pipe Clamps

Aickinstruct Rigid Pipe Clamps resemble the more traditional style of pipe clamps. These clamps are made from glass-reinforced polyurethane and are sized based on the pipe inside diameter or nominal size.

Polyurethane clamps are recommended for applications up to 160°F. For high temperature applications (up to 230°F), PVDF clamps are available as a special order. Contact the factory for pricing and availability.

Care should be taken not to exceed the recommended torque values of the rigid pipe clamps.

| Part No. | Nominal Size (in.) | PVC Sch. 80 & Rigid Metal | Design Loads (lbs.)* | | FRP Bolt Size (in.) | FRP Bolt Torque (ft./lbs.) |
|----------|--------------------|---------------------------|----------------------|--------|---------------------|----------------------------|
| | | | Type 1 | Type 2 | | |
| PCR-050 | 1/2 | 0.840 | 225 | 90 | 3/8 x 1 1/4 | 3 |
| PCR-075 | 3/4 | 1.050 | | | | |
| PCR-100 | 1 | 1.315 | | | | |
| PCR-125 | 1 1/4 | 1.660 | | | | |
| PCR-150 | 1 1/2 | 1.900 | | | | |
| PCR-200 | 2 | 2.375 | | | | |
| PCR-250 | 2 1/2 | 2.875 | | | | |
| PCR-300 | 3 | 3.500 | 300 | 125 | | |
| PCR-400 | 4 | 4.500 | | | | |
| PCR-600 | 6 | 6.625 | | | | |
| PCR-800 | 8 | 8.625 | | | | |



*Design loads shown represent a 3:1 safety factor.

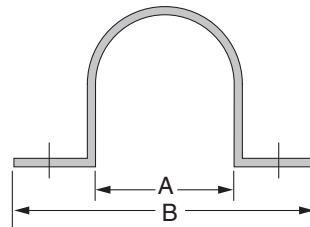
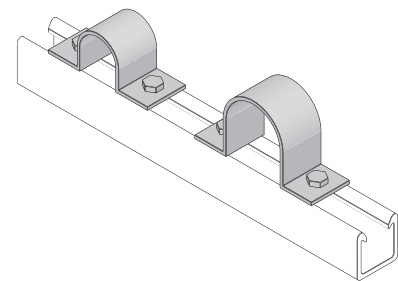
PS050 thru PS 1800 – Two Hole Pipe Straps

Aickinstruct Two Hole Pipe Straps are designed for use in securing pipe, conduit and ducts to Aickinstruct Channel. Two hole fiberglass straps can also be used independently from the channel for surface mounting. All sizes of the straps are suitable for load bearing applications.

polyester resin. For extreme chemical environments, the straps can be manufactured from vinyl ester resin. Larger diameter straps for special applications are also available. Contact the factory for pricing and availability of vinyl ester and large diameter straps. Two hole pipe straps should not be torqued above recommended values.

The two hole pipe straps are manufactured from a fire-retardant, glass reinforced

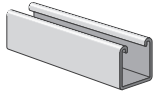
| Part No. | Dimension | | Bolt Size (in.) | Material Size (in.) | Design Load (lbs.)* | | Torque (ft./lbs.) |
|----------|-----------|---------|-----------------|---------------------|---------------------|--------|-------------------|
| | A (in.) | B (in.) | | | Type 1 | Type 2 | |
| PS050 | 0.840 | 4.840 | 1/2 | 1/4 X 1 5/8 | 135 | 50 | 4 |
| PS075 | 1.050 | 5.050 | | | | | |
| PS100 | 1.315 | 5.315 | | | | | |
| PS150 | 1.900 | 5.900 | | | | | |
| PS200 | 2 3/8 | 6.375 | | | | | |
| PS250 | 2 7/8 | 6.875 | | | 175 | 60 | |
| PS300 | 3 1/2 | 7.500 | | | | | |
| PS350 | 4 | 8.000 | | | | | |
| PS400 | 4 1/2 | 8.500 | | | 225 | 125 | |
| PS500 | 5 9/16 | 9.563 | | | | | |
| PS600 | 6 5/8 | 10.625 | 5/8 | 3/8 X 1 5/8 | 225 | 125 | 10 |
| PS800 | 8 5/8 | 12.625 | | | | | |
| PS1000 | 10 3/4 | 15.750 | | | | | |
| PS1200 | 12 3/4 | 16.250 | | | | | |
| PS1400 | 14 | 18.000 | | | 250 | 150 | |
| PS1600 | 16 | 20.000 | | | | | |
| PS1800 | 18 | 23.000 | | | | | |



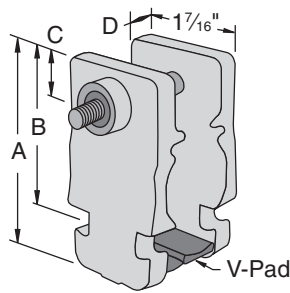
When bolting onto 1 5/8" or 1 1/2" channel a 1 1/4" long bolt is required.

*Design loads shown represent a 3:1 safety factor.

Notes: Bolts and channel nuts are sold separately.



PS TP - Aickin-A-Grip (SST Style Channel Only)



| Part No. | Nominal Pipe Size | Dimensions (In.) | | | | Hex Head Cap Screw & Lock Nut | Wt/100 pcs Lbs |
|-----------|-------------------|---------------------------------|---------------------------------|------|------|-------------------------------|----------------|
| | | "A" | "B" | "C" | "D" | | |
| PS TP-025 | 1/4 | 1 ¹⁵ / ₁₆ | 1 ³ / ₈ | 3/8 | 3/16 | 1/4-20 x 1 1/2" | 4 |
| PS TP-625 | 3/8 | 2 ³ / ₈ | 1 ⁵ / ₈ | 7/16 | 1/4 | | 6 |
| PS TP-875 | 1/2 | 2 ⁹ / ₁₆ | 1 ¹³ / ₁₆ | | 5/16 | | 8 |
| PS TP-100 | 3/4 | 2 ¹¹ / ₁₆ | 1 ¹⁵ / ₁₆ | | 8 | | |

Includes: Cushion, V-pad, and Hardware.

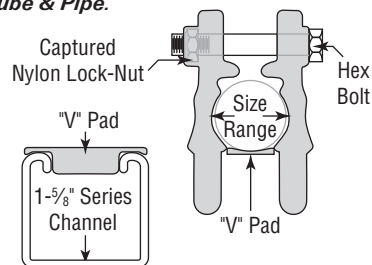
Materials: Cushion: Thermoplastic elastomer.

Hardware: Stainless Steel with Captured Nylon Locknut

Temperature Rating: -40°F to +275°F

Note: For use with SST Style Strut only

Multi-Size Adjustment Capability
Allows Four Clamp Sizes to Fit
Seventeen Sizes of Tube & Pipe.



FEATURE

- Ten sizes of tube;
Five sizes of pipe...
Using just four sizes of clamp.
- Diameters from .25" to 1.31"
- Metric Sizes from 6mm to 32mm
- Non-Conducting
- Corrosion Resistant
- UV Resistant
- Temperature

ADVANTAGE

- Reduces Inventory SKU's
- Fewer parts needed on the job.
- Simplifies take-offs & component requirements on projects using both Tube & Pipe Sizes
- High pull out and slip loads

BENEFIT

- Lowers Inventory Costs.
- Always have the right clamp on hand when you need it.
- Job Costing made easier & more accurate.

Tube Sizes

| Part No. | O.D. Tube Sizes | | | Diameters | PullOut Load/Lbs | Slip Load/Lbs |
|-----------|-----------------|-------|-------|-------------|------------------|---------------|
| PS TP-025 | 1/4 | 3/8 | 1/2 | 0.25 - 0.54 | | |
| PS TP-625 | 5/8 | 3/4 | 7/8 | 0.62 - 0.87 | | |
| PS TP-875 | 7/8 | 1 | 1 1/8 | 0.87 - 1.12 | | |
| PS TP-100 | 1 | 1 1/8 | 1 1/4 | 1.00 - 1.31 | | |

Pipe Sizes

| Part No. | Nominal Pipe Sizes | Diameters | PullOut Load/Lbs | Slip Load/Lbs |
|-----------|--------------------|-----------|------------------|---------------|
| PS TP-025 | 1/4 | - | | |
| PS TP-625 | 3/8 | 1/2 | | |
| PS TP-875 | 3/4 | - | | |
| PS TP-100 | | 1 | | |

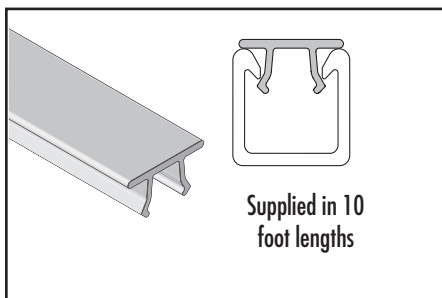
| Nominal Pipe Size | Water Filled Weight (lbs/ft) | Code Required Support Spacing ⁽³⁾ (ft) | Pipe Load At Support (lbs) | Safety Factors from Allowed Value | |
|-------------------|------------------------------|---------------------------------------------------|----------------------------|-----------------------------------|------|
| | | | | Pullout | Slip |
| 1/4" | 0.470 | 7 | 3 | 150 | 12 |
| 3/8" | 0.651 | | 5 | 110 | 9 |
| 1/2" | 0.983 | | 7 | 70 | 6 |
| 3/4" | 1.361 | | 10 | 50 | 4 |
| 1" | 2.055 | | 14 | 30 | 3 |

⁽¹⁾ Based on preliminary testing

⁽²⁾ SF = 5 to Ultimate Load

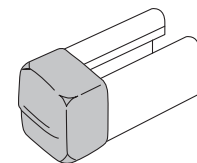
⁽³⁾ Per MSS-SP69 & ASME B3 1.1 for water filled pipe

20E-5000 - Channel Capping Strip



Channel Capping Strip is made from PVC and installs simply by pressing it onto the channel opening. It is designed to be used when a cover is desired for the channel opening (such as concrete embedment channel).

AIC-EC - Channel End Cap



The Aickin-End Cap is made from red PVC and designed for 1 1/8" channel. End caps are desired when the ends of the channel need to be enclosed. The Aickin-End Cap easily installs by pressing it onto the end of the channel opening.

FIBERGLASS

Pipe Clamps

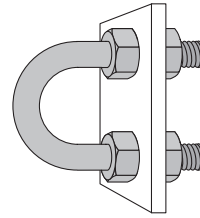


UB-050 thru UB-600 - Nonmetallic U-bolts

Aickinstrut Nonmetallic U-Bolts provide a corrosion resistant alternative to traditional metallic U-Bolts. Made from glass-reinforced polyurethane, these bolts will outlast stainless steel in most corrosive applications. Nonmetallic U-Bolts have oversized diameters which allow them to hold steel conduit and plastic pipe.

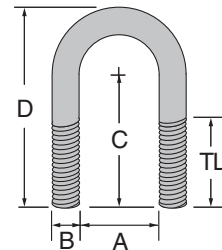
Each U-Bolt comes with two polyurethane hex nuts. Additional nuts and washers can be purchased separately.

The U-Bolts can also be installed to allow for thermal expansion and contraction of plastic pipe as shown here.



Note: Plate not included. Illustration purpose only

| Part No. | Size | "A" | "B" | "C" | "D" | "TL" | Load (lbs.)* | Torque (in./lbs.)* |
|----------|-------|-------|-------|-------|-------|------|--------------|--------------------|
| UB-050 | 1/2 | 0.937 | 0.375 | 1.568 | 2.412 | 1.25 | 135 | 40 |
| UB-075 | 3/4 | 1.125 | | 1.662 | 2.600 | | | |
| UB-100 | 1 | 1.375 | | 1.787 | 2.850 | | | |
| UB-125 | 1 1/4 | 1.687 | | 1.943 | 3.162 | | | |
| UB-150 | 1 1/2 | 2.000 | | 2.100 | 3.475 | | | |
| UB-200 | 2 | 2.437 | 0.500 | 2.468 | 4.187 | 1.50 | 80 | |
| UB-250 | 2 1/2 | 2.937 | | 2.718 | 4.687 | | | |
| UB-300 | 3 | 3.562 | | 3.031 | 5.312 | | | |
| UB-350 | 3 1/2 | 4.062 | | 3.281 | 5.812 | | | |
| UB-400 | 4 | 4.562 | | 3.531 | 6.312 | | | |
| UB-600 | 6 | 6.750 | | 0.625 | 5.750 | | | 9.875 |



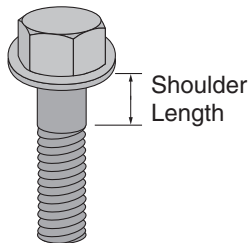
*Torque and load values shown represent a 3:1 safety factor.

Fiberfast Bolts

Fiberfast bolts are provided in two styles and five diameters (1/4", 3/8", 1/2", 5/8" and 3/4") and range in length from 1 1/4" to 3 1/2". The flanged style incorporates a molded washer collar which eliminates the need for a washer. The flanged style is provided for 1/4" and 1/2" diameter bolts. Flanged bolts are available in 3/8" diameter as a special order item. The hex head style is provided for all 3/8", 5/8" and 3/4" diameter bolts. All Fiberfast bolts are not fully threaded, therefore, shoulder

length (nonthreaded portion) dimensions have been provided. Fiberfast bolts are ideal for mechanical connections that require a high degree of corrosion resistance. The 3/8" diameter fasteners are recommended for all channel fitting mechanical connections. All Fiberfast bolts are manufactured from glass-reinforced polyurethane and are packaged in bags containing 25 pieces.

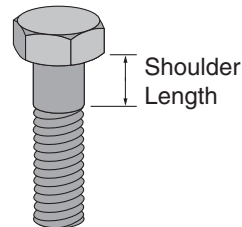
250PU - Hex Flange Bolts



| Part No. | Size | Thread Shear (lbs.)* | Shank Shear (lbs.)* | Shoulder Length | Torque (ft./lbs.) |
|-----------|-------------|----------------------|---------------------|-----------------|-------------------|
| 250PU-075 | 1/4 x 3/4 | 110 | 210 | Full Thread | 10 In./lbs. |
| 250PU-100 | 1/4 x 1 | | | 1/2 | |
| 250PU-150 | 1/4 x 1 1/2 | | | | |
| 500PU-125 | 1/2 x 1 1/4 | | | 450 | |
| 500PU-150 | 1/2 x 1 1/2 | 3/4 | | | |
| 500PU-200 | 1/2 x 2 | | | | |
| 500PU-250 | 1/2 x 2 1/2 | | | | |
| 500PU-300 | 1/2 x 3 | | 1 | | |
| 500PU-350 | 1/2 x 3 1/2 | 2 3/16 | | | |

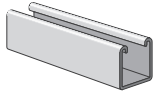
*Thread shear values shown represent a 3:1 safety factor.

375PU - Hex Bolts



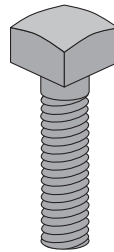
| Part No. | Size | Thread Shear (lbs.)* | Shank Shear (lbs.)* | Shoulder Length (in.) | Torque (ft./lbs.) |
|-----------|-------------|----------------------|---------------------|-----------------------|-------------------|
| 375PU-125 | 3/8 x 1 1/4 | 250 | 470 | Full Thread | 3 |
| 375PU-150 | 3/8 x 1 1/2 | | | 1/4 | |
| 375PU-200 | 3/8 x 2 | | | 1/2 | |
| 375PU-250 | 3/8 x 2 1/2 | | | 3/4 | |
| 375PU-300 | 3/8 x 3 | 700 | 1,360 | 1 | 12 |
| 625PU-125 | 5/8 x 1 1/4 | | | 1/4 | |
| 625PU-150 | 5/8 x 1 1/2 | | | | |
| 625PU-200 | 5/8 x 2 | | | | |
| 625PU-250 | 5/8 x 2 1/2 | | | | |
| 625PU-300 | 5/8 x 3 | | | 1 1/4 | |
| 625PU-350 | 5/8 x 3 1/2 | | | | |

*Thread shear values shown represent a 3:1 safety factor.



375V - Vinyl Ester Square Head Bolts

Vinyl ester square head bolts are used for concrete mounting and general purpose fastening applications. The square head bolts are constructed from vinyl ester all-thread rod and vinyl ester square nuts. The units are bonded together with a durable two part urethane adhesive. The square head bolts are offered in 3/8" diameter but can be supplied in other diameters as a special order. Contact the factory for pricing and availability of special diameter square head bolts.



| Part No. | Size | Thread Shear (lbs.)* | Torque (ft./lbs.)* |
|----------|-------------|----------------------|--------------------|
| 375V-100 | 3/8 x 1 | 250 | 10 |
| 375V-125 | 3/8 x 1 1/4 | | |
| 375V-150 | 3/8 x 1 1/2 | | |
| 375V-175 | 3/8 x 1 3/4 | | |
| 375V-200 | 3/8 x 2 | | |
| 375V-250 | 3/8 x 2 1/2 | | |
| 375V-300 | 3/8 x 3 | | |
| 375V-350 | 3/8 x 3 1/2 | | |
| 375V-400 | 3/8 x 4 | | |

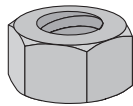
*Thread shear values shown represent a 3:1 safety factor.

Fiberfast Hex Nuts

Aickinstrut hex nuts are available in two styles; hex and hex flange nuts. The Aickinstrut hex nut is similar in design to the conventional hex nut and is preferred for channel fitting connections. The Aickinstrut hex flange nut is preferred for applications that require additional thread engagement (such as with all-thread

rod) or maximum thread shear strength. All nuts are manufactured from glass-reinforced polyurethane and are packaged in bags containing 25 pieces. All hex and hex flange nuts are available in PVDF and Polypropylene and metric sizes as a special order. Contact the factory for pricing and availability.

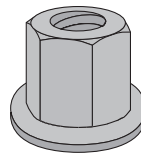
250PU thru 1000PU - Hex Nuts



| Part No. | Size | Thread Shear (lbs.)* | Height | Torque (ft./lbs.) |
|------------|--------|----------------------|--------|-------------------|
| 250PU-000 | 1/4-20 | 150 | 0.218 | 10 in./lbs. |
| 375PU-000 | 3/8-16 | 460 | 0.328 | 3 |
| 500PU-000 | 1/2-13 | 800 | 0.437 | 8 |
| 625PU-000 | 5/8-11 | 1,000 | 0.546 | 12 |
| 750PU-000 | 3-10 | | 0.640 | 15 |
| 1000PU-000 | 1-8 | | 0.859 | 17 |

*Thread shear values shown represent a 3:1 safety factor.

375PU thru 1000PU - Hex Flange Nuts

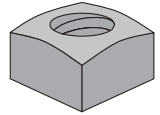


| Part No. | Size | Thread Shear (lbs.)* | Height | Torque (ft./lbs.) |
|---------------|--------|----------------------|--------|-------------------|
| 375PU-FN-000 | 3/8-16 | 500 | 0.750 | 3 |
| 500PU-FN-000 | 1/2-13 | 1,200 | 0.855 | 8 |
| 625PU-FN-000 | 5/8-11 | 2,200 | 1.220 | 12 |
| 750PU-FN-000 | 3/4-10 | 2,900 | 1.590 | 15 |
| 1000PU-FN-000 | 1-8 | | 1.750 | 17 |

*Thread shear values shown represent a 3:1 safety factor.

375V thru 1000V - Vinyl Ester Square Nuts

Square nuts are manufactured from pultruded vinyl ester square stock. They are recommended for applications that require high thread shear values. Square nuts are packaged in bags containing 25 pieces.

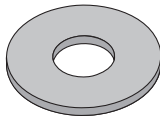


| Part No. | Size | Thread Shear (lbs.)* | Height | Torque (ft./lbs.) |
|-----------|--------|----------------------|--------|-------------------|
| 375V-000 | 3/8-16 | 1,300 | 0.437 | 10 |
| 500V-000 | 1/2-13 | 1,700 | 0.562 | |
| 625V-000 | 5/8-11 | | 0.687 | |
| 750V-000 | 3/4-10 | | 0.812 | |
| 1000V-000 | 1-8 | | 0.937 | |

*Thread shear values shown represent a 3:1 safety factor.

250E thru 1000E - Flat Washers

Flat Washers are made from PVC and are available for 1/4" diameter through 1". PVC washers are recommended for connections that utilize hex nuts and bolts. PVC washers are packaged in bags containing 25 pieces.



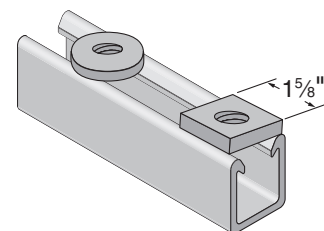
| Part No. | Size | Outside Diameter |
|-----------|------|------------------|
| 250E-999 | 1/4 | 0.49 |
| 375E-999 | 3/8 | 1.00 |
| 500E-999 | 1/2 | 1.25 |
| 625E-999 | 5/8 | 1.50 |
| 750E-999 | 3/4 | 1.50 |
| 1000E-999 | 1 | 2.25 |

WR375 thru WR750 - All-Thread Washers

Aickinstrut All-Thread Washers are flat fiberglass washers for use with FRP all-thread rods. All-Thread rod washers are 1/4" thick with a 1 7/8" diameter and are available in polyester or vinyl ester resin. To order vinyl ester, add the suffix "V" to the part number. To order square washers add the suffix "-SQ" to the part number.

| Part No. * | All-Thread Rod Size (in.) |
|------------|---------------------------|
| WR375 | 3/8 |
| WR500 | 1/2 |
| WR625 | 5/8 |
| WR750 | 3/4 |

* Add the suffix "V" to the part number to specify vinyl ester Example "WR500V"
 * Add the suffix "-SQ" to the part number to specify square washer Example "WR500-SQ"

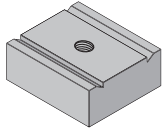


Channel Nuts

Channel nuts are provided in two types; Standard Duty and Heavy Duty. Standard Duty channel nuts are designed for light duty applications that do not require high thread shear values. Standard duty channel nuts can also be used with all sizes of Aickinstrut Channel. Heavy duty channel nuts are designed to be used where high thread shear values or spring nuts are required. Heavy duty channel nuts can not

be used with Series 1000 Channel (light duty). All channel nuts are manufactured from glass-reinforced polyurethane and are packaged in bags containing 50 pieces. Channel nuts are also available in PVDF as a special order. Contact the factory for pricing and availability.

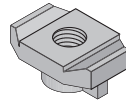
375PU-CNH through 750PU-CNH, 10PU-CNMHD through 20PU-CNMHD - HD Channel Nuts



| Part No. | Size | Thread Shear (lbs.)* | Torque (ft./lbs.) |
|------------|--------|----------------------|-------------------|
| 375PU-CNH | 3/8-16 | 1,400 | 8 |
| 500PU-CNH | 1/2-13 | | |
| 625PU-CNH | 5/8-11 | | 10 |
| 750PU-CNH | 3/4-10 | | |
| 10PU-CNMHD | 10 mm | | |
| 12PU-CNMHD | 12 mm | | |
| 16PU-CNMHD | 16 mm | 10 | |
| 20PU-CNMHD | 20 mm | | |

*Thread shear values shown represent a 3:1 safety factor.

250PU-CN through 500PU-CN, 10PU-CN through 12PU-CN - Standard Duty Channel Nuts



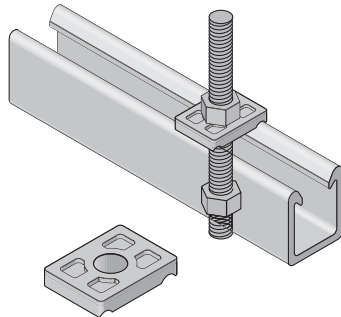
| Part No. | Size | Thread Shear (lbs.)* | Torque (ft./lbs.) |
|----------|-----------|----------------------|-------------------|
| 250PU-CN | 1/4-20 | 460 | 2 |
| 312PU-CN | 5/16-18 | | |
| 375PU-CN | 3/8-16 | | 3 |
| 500PU-CN | 1/2-13 | | |
| 10PU-CN | 10 mm | | |
| 12PU-CN | 12 mm | N/A | |
| 10PU-CNS | #10 Screw | | |

*Thread shear values shown represent a 3:1 safety factor.

200-4266 through 200-3442 - Saddle Clips

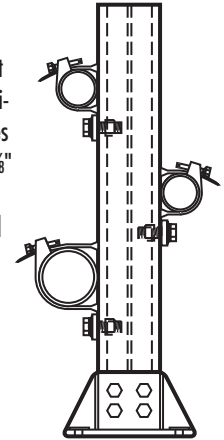
Aickinstrut Saddle Clips make fastening through Aickinstrut channel much easier. The clips mate with the exterior of the channel flanges and are secured with threaded rods and nuts. The saddle clips are manufactured from glass reinforced polyurethane and are supplied in bags of 50 pieces.

| Part No. | Size |
|----------|------|
| 200-4226 | 3/8" |
| 200-4217 | 1/2" |
| 200-4341 | 5/8" |
| 200-4342 | 3/4" |

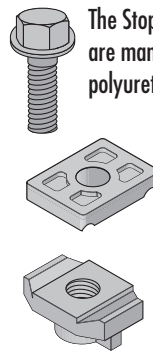


200-4277, 200-4219, 200-4343 - Stop-Lock Assemblies

Aickinstrut Stop-Lock Assemblies reduce the chance of pipe slippage when running supports vertically. Stop-Locks are recommended for applications that are subject to vibration, have regular contact with fluids or are vertically mounted (Type 2). The Stop-Locks fit all three sizes of channel. Stop-Locks are offered with a 3/8", 1/2" and 5/8" bolt size. The 3/8" Stop-Lock Assembly is supplied with a heavy duty channel nut (the 5/8" Stop-Lock Assembly will not work with the 1000 Series Channel).



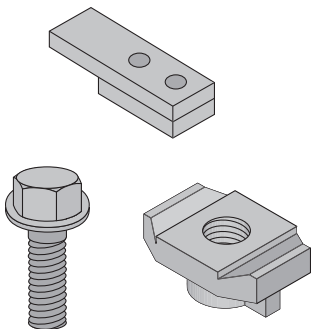
The Stop-Lock Assemblies' components are manufactured from glass-reinforced polyurethane.



| Part No. | Size | Force Resistance (lbs.)* | Torque (ft./lbs.) |
|----------|------|--------------------------|-------------------|
| 200-4227 | 3/8" | 200 | 7 |
| 200-4219 | 1/2" | 220 | 12 |
| 200-4343 | 5/8" | 250 | 15 |

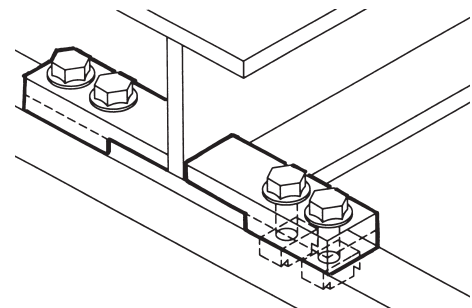
*Force resistance values shown represents a 3:1 safety factor.

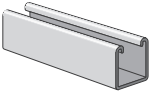
20V-2BC - Fabricated Beam Clamps



| Part No. | Flange Thickness | Thread Shear (lbs.)* | Torque (ft./lbs.) |
|------------|------------------|----------------------|-------------------|
| 20V-2BC-25 | 1/4" | 600 | 10 |
| 20V-2BC-37 | 3/8" | | |
| 20V-2BC-50 | 1/2" | | |

*Design load values shown represent a 3:1 safety factor. Bolts and channel nuts are 1/2" diameter.





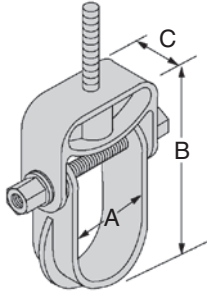
Metal Channel
Fasteners
Fittings
Pipe & Conduit Clamps
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

Clevis Hangers

Clevis hangers are available in two styles; molded and hand lay-up. The molded clevis hangers are manufactured from glass-reinforced polyurethane and are avail-

able for sizes 1/2" through 6". The hand lay-up clevis hangers are manufactured from glass-reinforced vinyl ester resin and are available for sizes 1" through 24".

CVHPU - Molded Clevis Hangers



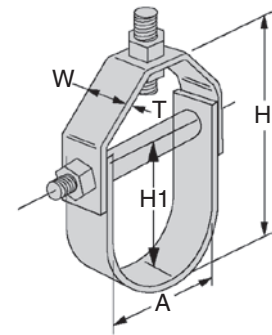
| Part No. | Nominal Diameter | Max. Pipe O.D. | "A" | "B" | "C" | Hanger Rod | Load (lbs.)* |
|-----------|------------------|----------------|-------|-------|------|------------|--------------|
| CVHPU-100 | 1/2 - 1 | 1 | 1.500 | 4.25 | 1.25 | 1/2 | 670 |
| CVHPU-150 | 1 1/4 - 1 1/2 | 1 1/2 | 2.000 | 5.14 | | | 730 |
| CVHPU-200 | 1 1/2 - 2 | 2 | 2.500 | 6.52 | | | 1,150 |
| CVHPU-400 | 2 1/2 - 4 | 4 | 5.125 | 10.00 | 1.50 | 1/2 | 1,170 |
| CVHPU-600 | 4 1/2 - 6 | 6 | 6.750 | 12.33 | | | 1,170 |

*Design load values shown represent a 3:1 safety factor.

100-1500 thru 100-1514 - Hand Lay-Up Clevis Hangers

| Part No. | Size Range A (In.) | Dimensions (in.) | | | | Hanger Rod | Trans Rod | Spreader Rod O.D. | Loads (lbs.)* |
|----------|--------------------|------------------|--------|--------|-------|------------|-----------|-------------------|---------------|
| | | T | H | H1 | W | | | | |
| 100-1500 | 1 - 1 1/2 | 1/8 | 2 3/4 | 1 7/8 | 1 1/2 | 1/2 | 3/8 | 1/2 | 60 |
| 100-1501 | 1 1/2 - 2 | | 3 1/2 | 2 5/8 | | | | | 60 |
| 100-1502 | 2 - 2 5/8 | | 4 3/4 | 3 | | | | | 90 |
| 100-1503 | 2 1/2 - 3 1/4 | 1/8 | 5 1/2 | 3 5/8 | 2 | 5/8 | 1/2 | 120 | 160 |
| 100-1504 | 3 - 3 3/8 | | 7 | 4 1/4 | | | | | 250 |
| 100-1505 | 4 - 5 1/8 | 3/16 | 8 1/2 | 5 5/8 | 2 | 5/8 | 1/2 | 300 | 350 |
| 100-1506 | 6 - 7 1/8 | | 10 7/8 | 7 1/2 | | | | | 450 |
| 100-1507 | 8 - 9 1/4 | 1/4 | 14 | 9 3/4 | 3 | 5/8 | 1/2 | 600 | 700 |
| 100-1508 | 10 - 11 3/8 | | 18 | 12 | | | | | 750 |
| 100-1509 | 12 - 13 1/2 | 1/4 | 21 1/2 | 14 7/8 | 5 | 3/4 | 3/4 | 800 | 850 |
| 100-1510 | 14 - 15 3/4 | | 24 1/2 | 16 1/2 | | | | | 900 |
| 100-1511 | 16 - 18 | 3/8 | 27 3/8 | 19 1/2 | 6 | 3/4 | 3/4 | 1 | 750 |
| 100-1512 | 19 - 21 | | 34 1/2 | 22 1/2 | | | | | 800 |
| 100-1513 | 21 - 22 | 1/2 | 35 1/2 | 24 | 6 | 3/4 | 3/4 | 1 | 850 |
| 100-1514 | 22 - 24 | | 41 | 28 | | | | | 900 |

*Design load values shown represent a 3:1 safety factor.



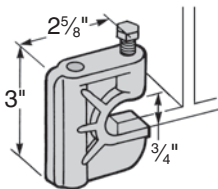
Beam Clamps

Aickinstrut beam clamps are available in two styles; molded and fabricated. The molded beam clamps are manufactured from glass-reinforced polyurethane and can accommodate 3/8", 1/2" and 5/8" hanger rod sizes. The molded beam clamps utilize the traditional "C" clamp style design. The fabrication beam clamps are manufactured from vinyl ester flat stock and utilize polyurethane bolts and channel nuts for clamping. Fabricated beam clamps are available for attaching to 1/4", 3/8" and 1/2" thick beam flanges. Each fabricated beam clamp assembly

includes four (4) 1/2" standard duty channel nuts, four (4) 1/2" Polyurethane bolts and two (2) attachment clips.

All Aickinstrut beam clamps allow easy attachment of threaded rod to "I" beams or other structural assemblies.

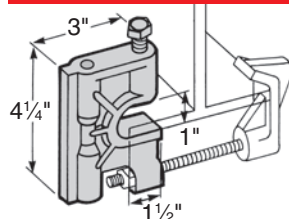
375PU-BC, 500PU-B - Molded Beam Clamps



| Part No. | Size | Thread Shear (lbs.)* | Torque (ft./lbs.) |
|----------|------|----------------------|-------------------|
| 375PU-BC | 3/8 | 400 | 10 |
| 500PU-BC | 1/2 | | |

*Design load values shown represent a 3:1 safety factor.

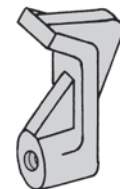
RGBC - Beam Clamps



Note: Beam clamp clip must be purchased separately. Illustration purpose only

| Part No. | Size | Thread Shear (lbs.)* | Torque (ft./lbs.) |
|----------|------|----------------------|-------------------|
| RGBC-1 | 3/8 | 500 | 10 |
| RGBC-2 | 1/2 | | |
| RGBC-3 | 5/8 | | |

Beam Clip - 375PU-BCCLP (3/8")



FIBERGLASS

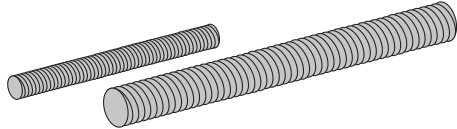


Pipe Supports

200-327 thru 200-3831 - Threaded Rod

Pultruded threaded rods are an excellent choice for hanging and fastening Aickinstrut Channel. These rods can also be used with either the Aickinstrut vinyl ester square nuts, polyurethane hex nuts, hex flange nuts and Aickinstrut channel nuts. All FRP threaded rod is manufactured from pultruded vinyl ester resin and is gray in color.

The standard rod lengths are 4' and 8'. Special lengths and threading are also available. Contact the factory for pricing and availability.

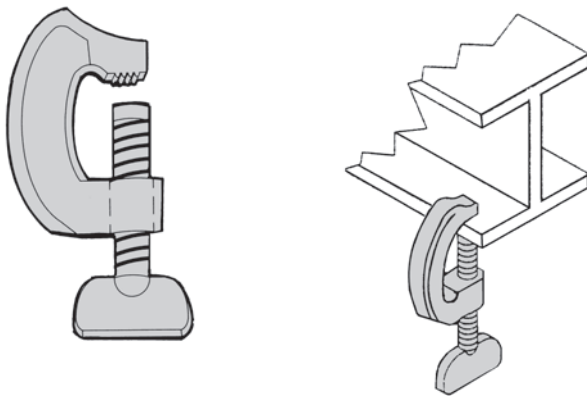


| Part No. | Size | Weight | Thread Shear (lbs.)* | Torque (ft./lbs.) |
|----------|--------|--------|----------------------|-------------------|
| 200-3827 | 3/8-16 | 0.07 | 415 | 5 |
| 200-3828 | 1/2-13 | 0.12 | 570 | 10 |
| 200-3829 | 5/8-11 | 0.18 | 1,260 | 40 |
| 200-3830 | 3/4-10 | 0.28 | 1,700 | 50 |
| 200-3831 | 1-8 | 0.50 | 3,000 | 60 |

* Thread shear values shown represent a 3:1 safety factor.
 * To order eight foot lengths, add suffix "-96" to part number (EX: 200-3827-96)

390N - Duraclamp C-Clamps

Duraclamps are glass-reinforced polyurethane C-Clamps that are designed to replace steel C-Clamps in areas where corrosion is a problem. The individual Duraclamp components can also be purchased separately.

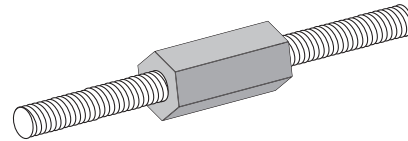


| Part No. | Description | Thread Shear (lbs.)* | Torque (ft./lbs.) |
|----------|-------------|----------------------|-------------------|
| 390N-150 | "C"-Clamp | 25 | 17 |
| 390N-BLT | Bolt | N/A | |
| 390N-CLP | "C" | 25 | N/A |

*Design load values shown represent a 3:1 safety factor.
Note: Bolt Dimension is 5/8" x 2 1/2"

200-3849 thru 200-3843 - A-Konnector Rod Couplers

A-Konnectors provide an excellent means for extending Aickinstrut FRP all-thread rods beyond their standard lengths. A-Konnectors are manufactured from glass-reinforced polyurethane and are colored gray. A-Konnectors are packaged in bags containing 25 pieces.



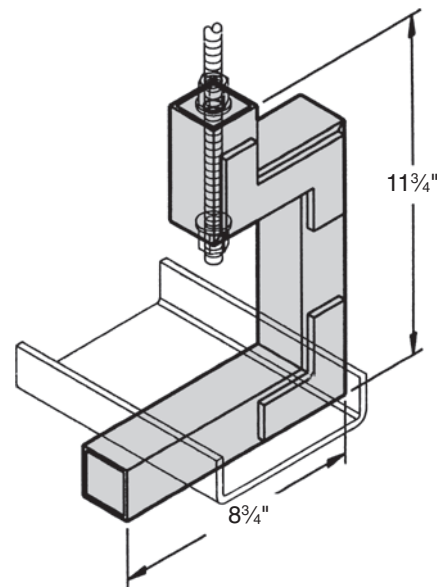
| Part No. | Size | Length | Thread Shear (lbs.)* |
|----------|--------|--------|----------------------|
| 200-3840 | 3/8-16 | 2 1/4 | 800 |
| 200-3841 | 1/2-13 | | 870 |
| 200-3842 | 5/8-11 | | 1,500 |
| 200-3843 | 3/4-10 | | |

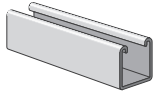
* Thread shear values shown represent a 3:1 safety factor.

Channel Hangers

AIC-CH-P (Polyester)
 AIC-CH-V (Vinyl Ester)

The Aickin-Channel Hanger is designed to support fiberglass structural "C" channel that is being used as a raceway system for cables, tubing or small diameter piping. The Aickin-Channel Hanger is available in either polyester or vinyl ester resin and is simply supported from a 1/2" FRP all-thread rod and beam clamp (not provided). The Channel Hanger will accommodate "C" channel width sizes 2" through 8".



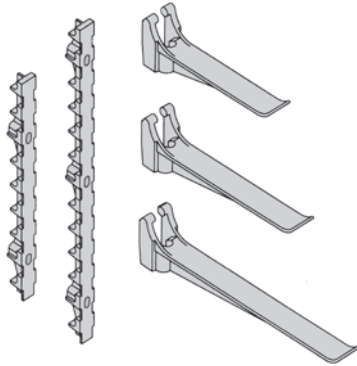


Metal Channel
Fasteners
Fittings
Pipe & Conduit Clamps
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

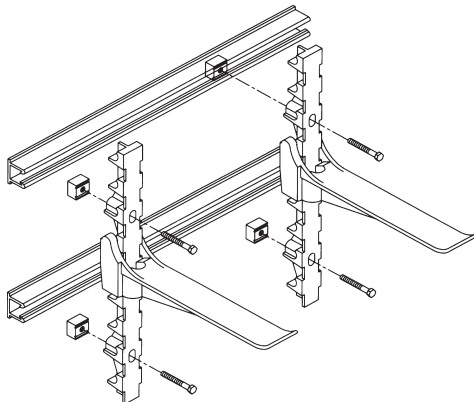
20N-ARM, 20NSTA – Power-Rack Stanchions

The Power-Rack Stanchion is the new alternative to traditional iron cable stanchions used for utility and industrial cable supports. Made entirely from glass-reinforced nylon, these stanchions out-perform metallic supports against corrosion. The extended life-span of the Power-Rack Stanchions makes them the logical choice over metallic cable supports. The Power-Rack Stanchion is available in two different lengths and four different arm lengths. The unique interlocking design allows the arm to "lock" into nine different levels on the 14¼" stanchions and fourteen on the 17½" stanchion. Glass-reinforced polyurethane stanchions are available as a special order. Contact the factory for pricing and availability.

Dimensions – The stanchion back is designed with



¾" wide x 1⅝" long holes to accept fasteners for mounting. There are two mounting holes in the 21⅜" long stanchion and three mounting holes in the 33⅝" long stanchion. Thickness at the slotted mounting holes is 1⅞". The mounting holes are spaced on 12" centers and require ½" diameter fasteners.



Installation – The Power-Rack Stanchions can be anchored into existing concrete structures using any good quality industrial anchoring system. For new concrete structures, the Power-Rack Stanchions can be mounted to Aickinstrut concrete embedment channel and attached with ½" channel nuts and ½"x 3" Fiberfast Bolts.

Fire Retardance – Power-Rack materials meet or exceed the requirements of UL94 HB.

Loading – The recommended allowable loads on Power-Rack Stanchions vary depending upon the position of the arm. Following the guidelines listed below will ensure a safe, reliable installation.

- Total load on any one arm should not exceed 800 lbs.
- The sum of the loads on any arm multiplied by their distances to the wall stanchion should not exceed 1200 in./lbs.

Example – A cable weighing 200 lbs. is positioned on an arm at a distance of 5" from the wall stanchion.

If the total load is less than 800 lbs and the sum of the load multiplied by their distances to the wall stanchion does not exceed 1200 in./lbs., then the system is adequate. In this case,

Total load (200 < 800 lbs) = OK

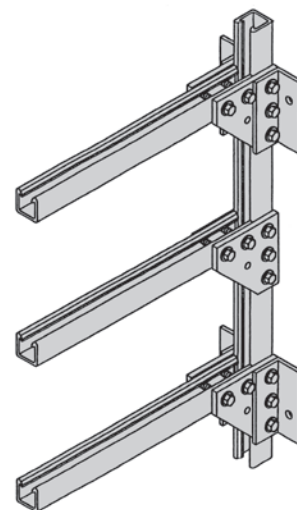
Tot. moment (200x5 in. = 1000 < 1200 in./lbs.) = OK

| Part No. | Description | Weight | Load (lbs.)* |
|-----------|----------------|--------|--------------|
| 20N-ARM08 | 8" Arm | 1.00 | 800 |
| 20N-ARM14 | 14¼" Arm | 1.16 | |
| 20N-ARM17 | 17½" Arm | 1.45 | |
| 20N-ARM23 | 23⅞" Arm | 1.86 | |
| 20N-STA21 | 21⅜" Stanchion | 1.49 | N/A |
| 20N-STA33 | 33⅝" Stanchion | 2.31 | |

*Design load values shown represent a 3:1 safety factor.

Wall Brackets

Aickin-Brackets are available in a wide variety of sizes and configurations. These wall brackets are made entirely from Aickinstrut material and are specifically designed to meet the customers requirements. They are ideal for customizing the support of piping, cables, tubing, conduits or cable trays. These brackets are available in either polyester or vinyl ester resin types and will work with all the Aickinstrut accessory items. Consult the factory for design, pricing and availability information.



FIBERGLASS

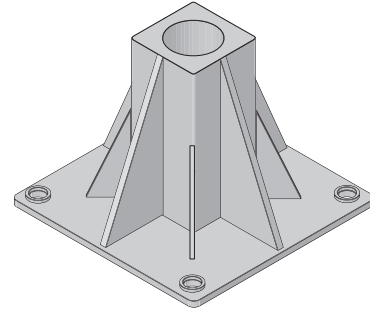
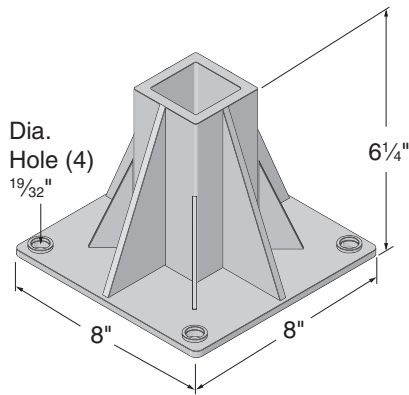
Instrument & Pipe Stands



Heavy Duty Post Base

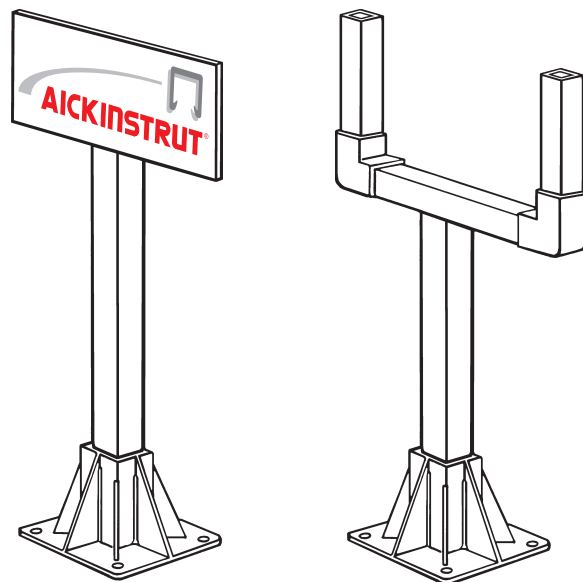
20PU-5852 (2" Square), 20PU-5852 RD (2" Round)
20PU-5853 HD (1⁵/₈" Sq.), 20PU-5854 HD (1¹/₂" Sq.)

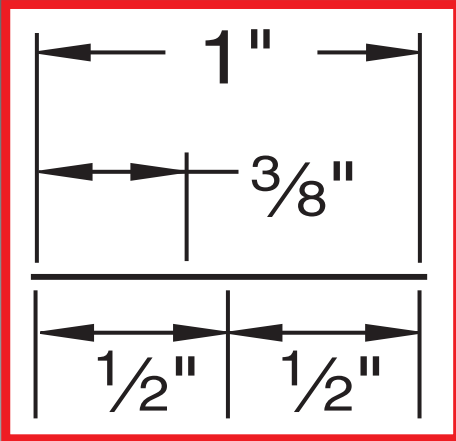
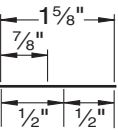
The Aickinstrut heavy duty post base is designed for applications that require a stronger base attachment than the standard Aickinstrut post base. Made from polyurethane, the heavy duty post base is available with four different openings: 1¹/₂", 1⁵/₈", 2" square and 2" Schedule 80 round. The heavy duty post base is ideal for mounting fiberglass channel, handrails and instrument stands in corrosive environments. The standard color is gray, but special colors are available upon request.



Instrument & Pipe Stands

Aickin-Instrument and Pipe Stands are available in polyester or vinyl ester resin types and are designed to meet specific customer requirements. These stands are ideal for supporting instruments and enclosures in corrosive environments. The stands utilize the Aickinstrut Heavy Duty Post Base and either 2" x 2" x 1/4" square tube or 2" Schedule 80 pipe to support the instruments or enclosures. These stands can be designed or configured to meet any application. Consult the factory for design, pricing and availability information.





TECHNICAL DATA

Beam Diagrams and Formulas:

- Nomenclature
- Cantilever Beams
- Simple Beams
- Beams fixed at one end, supported at other
- Beams fixed at both ends

Beam Load (Static) Conversion Factors

Design Load Data For Power-Strut Channel Connections

Pipe Spacing Tables

NFPA 13 Compliance Tables

Section Modulus Required for Trapeze Members

Electrical Metallic Tubing Data

Conduit Spacing

Conduit & Pipe Data

- Steel Rigid
- Intermediate Metal
- Steel Pipe
- Copper Tube
- Cast Iron
- PVC

Spacing of Hangers:

- Copper Tubing
- Steel Pipe
- PMC Plastic Pipe

Load Tables

- Threaded Hot Rolled Steel Rod
- Wide Flange Beams
- Channels – American Standard
- I-Beams – American Standard

Unit Conversions

Part Number Index

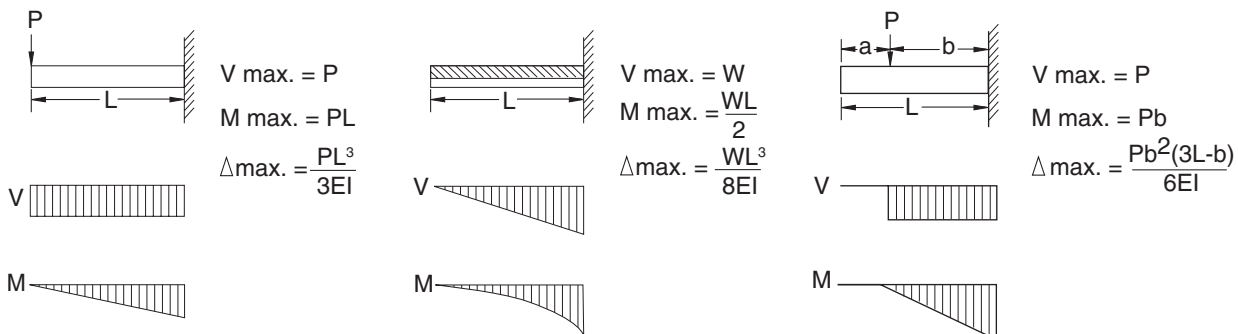
The information presented below is a direct reproduction from portions of the 8th Edition of THE MANUAL OF STEEL CONSTRUCTION by express permission of the American Institute of Steel Construction.

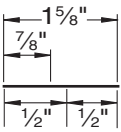
Beam Diagrams and Formulas (Nomenclature)

| | |
|-------------|--------------------------------------------------------------------------------------------------|
| E | Modulus of Elasticity of steel at 29,000 ksi. |
| I | Moment of Inertia of Beam (inch ⁴). |
| Mmax | Maximum Moment (kip inch) |
| M1 | Maximum moment in left section of beam (kip inch) |
| M2 | Maximum moment in right section of beam (kip inch) |
| Mx | Moment at distance x from end of beam (kip inch) |
| P | Concentrated Load (kips) |
| R | End beam reaction for any condition of symmetrical loading (kips) |
| R1 | Left end beam reaction (kips) |
| R2 | Right end or intermediate beam reaction (kips) |
| V | Maximum vertical shear for any condition of symmetrical loading (kips) |
| V1 | Maximum vertical shear in left section of beam (kips) |
| V2 | Vertical shear at right reaction point, or to left of intermediate reaction point of beam (kips) |
| Vx | Vertical shear at distance x from end of beam (kips) |
| a | Measured distance along beam (inch) |
| b | Measured distance along beam which may be greater or less than "a" (inch) |
| L | Total length of beam between reaction points (inch) |
| W | Uniformly distributed load per unit of length (lbs) |
| x | Any distance measured along beam from left reaction (inch) |
| x1 | Any distance measured along overhang section of beam from nearest reaction point(in). |
| Δmax | Maximum deflection (inch) |
| Δa | Deflection at point of load (inch) |
| Δx | Deflection at point x distance from left reaction (inch) |

Beam Diagrams and Formulas (Cantilever Beams)

CANTILEVER BEAMS

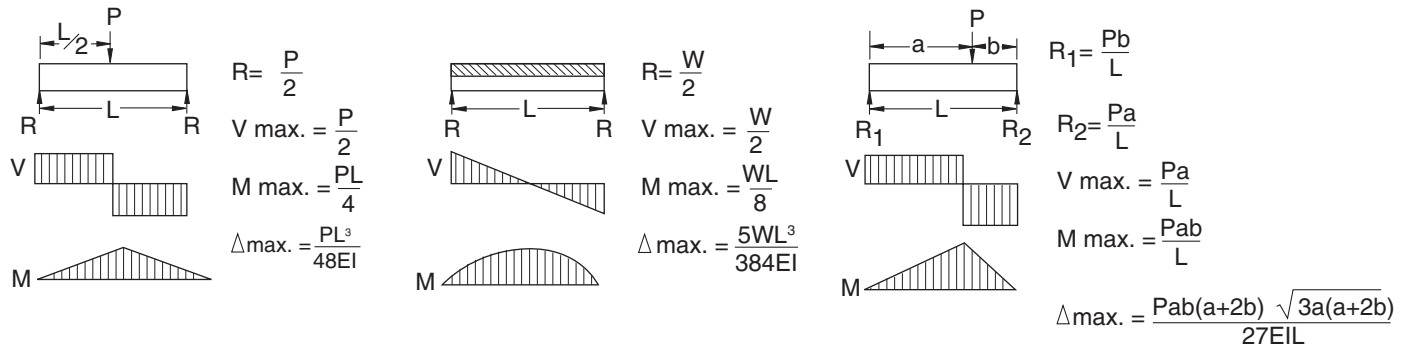




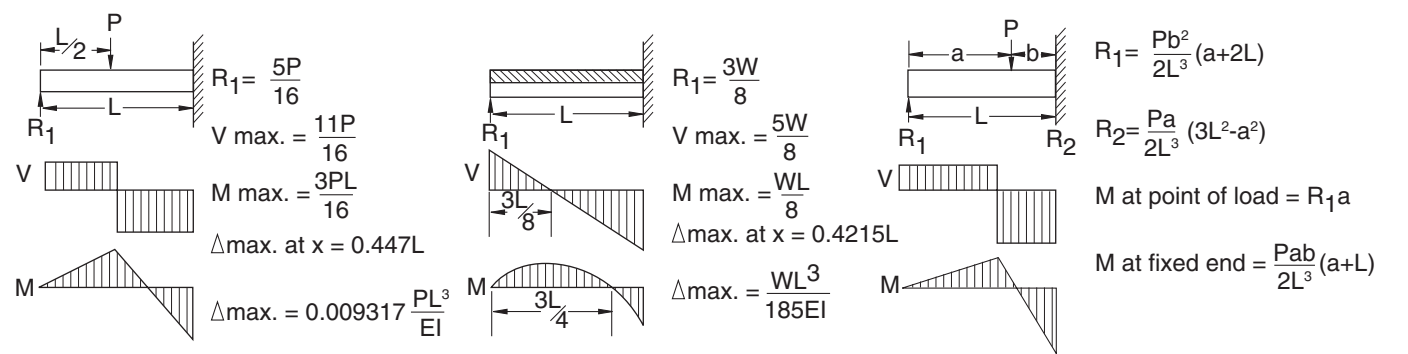
The information presented below is a direct reproduction from portions of the 8th Edition of THE MANUAL OF STEEL CONSTRUCTION by express permission of the American Institute of Steel Construction.

Metal Channel
Fasteners
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Fiberglass
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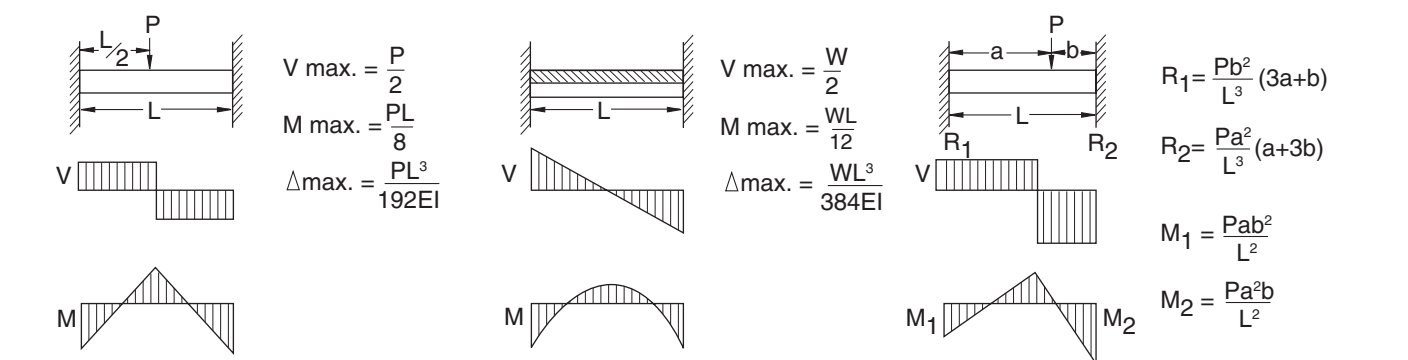
Beam Diagrams and Formulas (Simple Beams)



Beam Diagrams and Formulas (Beams fixed at one end, supported at other)

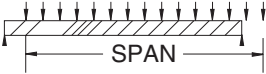


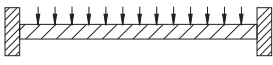

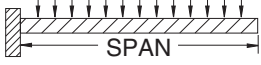

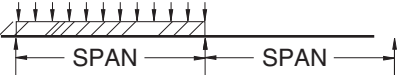
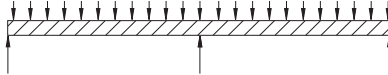




Beam Diagrams and Formulas (Beams fixed at both ends)



Beam Load (Static) Conversion Factors

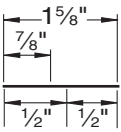
Power-Strut beam loads shown for various channels throughout this catalog are for single span, simple beams, with uniform loads. Loading or other support conditions can be calculated by multiplying the channel beam load by the appropriate factor listed below.

| LOAD AND SUPPORT CONDITION | | LOAD FACTOR | DEFLECTION FACTOR |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|-------------------|
| 1. Simple Beam, Uniform Load |  | 1.00 | 1.00 |
| 2. Simple Beam, Concentrated Load at Center |  | 0.50 | 0.80 |
| 3. Simple Beam, Two Equal Concentrated Loads at 1/4 pts |  | 1.00 | 1.10 |
| 4. Beam Fixed at Both Ends, Uniform Load |  | 1.50 | 0.30 |
| 5. Beam Fixed at Both Ends, Concentrated Load at Center |  | 1.00 | 0.40 |
| 6. Cantilever Beam, Uniform Load |  | 0.25 | 2.40 |
| 7. Cantilever Beam, Concentrated Load at End |  | 0.12 | 3.20 |
| 8. Continuous Beam, Two Equal Spans, Uniform Load on One Span |  | 1.30 | 0.92 |
| 9. Continuous Beam, Two Equal Spans, Uniform Load on Both Ends |  | 1.00 | 0.42 |
| 10. Continuous Beam, Two Equal Spans, Concentrated Load at Center of One Span |  | 0.62 | 0.71 |
| 11. Continuous Beam, Two Equal Spans, Concentrated Load at Center of Each Span |  | 0.67 | 0.48 |

Example solutions

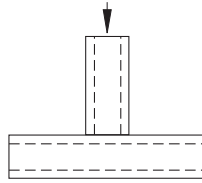
- 1.) To determine the load and deflection of a PS-200 simple beam 72" long, with a concentrated load at the center of span:
 From the PS-200 Beam Load Chart (page 29), the maximum uniform load for a 72" span is 560# with a deflection of .50".
 Multiply the above factors:
 Load = 560 x .50 = 280#
 Defl. = .50 x .80 = .40"

- 2.) To determine the load and deflection of a PS-200-2T3 cantilever beam 24" long with a concentrated load at end:
 From the PS-200-2T3 Beam Load Chart (page 27), the maximum uniform load for a 24" span is 3130# with a deflection of .03".
 Multiply the above factors:
 Load = 3130# x .12 = 376#
 Defl. = .03 x 3.20 = .096"



PS 603 – PS-200 1500#, PS-210 1000#

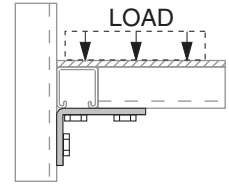
| Channel | Load (lbs) |
|---------|------------|
| PS 200 | 1,500 |
| PS 210 | 1,000 |



Both Ends Supported

PS 605 – PS-200 1500#, PS-210 1000#

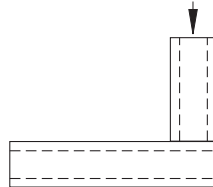
| Channel | Load (lbs) |
|---------|------------|
| PS 200 | 1,500 |
| PS 210 | 1,000 |



Both Ends Supported

PS 603 – PS-200 1000#, PS-210 650#

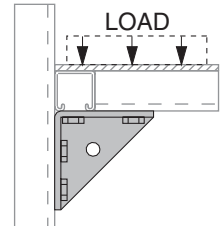
| Channel | Load (lbs) |
|---------|------------|
| PS 200 | 1,000 |
| PS 210 | 650 |



Both Ends Supported

PS 3373 – PS-200 3000#, PS-210 2000#

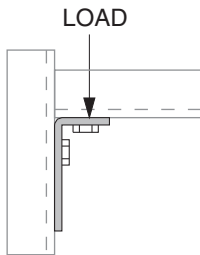
| Channel | Load (lbs) |
|---------|------------|
| PS 200 | 3,000 |
| PS 210 | 2,000 |



Both Ends Supported

PS 745 – PS-200 2000#, PS-210 1500#

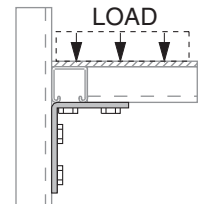
| Channel | Load (lbs) |
|---------|------------|
| PS 200 | 2,000 |
| PS 210 | 1,500 |



Both Ends Supported

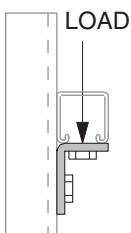
PS 607 – PS-200 2000#, PS-210 2000#

| Channel | Load (lbs) |
|---------|------------|
| PS 200 | 2,000 |
| PS 210 | |

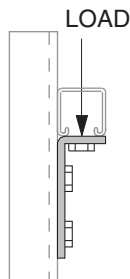


Both Ends Supported

PS 604 – 500#

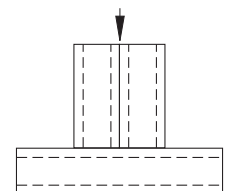


PS 606 – 500#



PS-601 – PS-210 1000#, PS-210 800#

| Channel | Load (lbs) |
|---------|------------|
| PS 200 | 1,000 |
| PS 210 | 800 |



Both Ends Supported

- 1.) Safety Factor = 2½ based on ultimate strength of connection.
- 2.) Load Diagrams indicate design loads for 12 ga. (listed as PS-200) and for 14 ga. (listed as PS-210) channels.

Tables of Pipe Spacing

This chart, developed by Julius Getlan of Seelye Stevenson Value & Knect, consulting engineers, New York City, enables one to quickly determine the centerline-to-centerline dimension between any two size pipes on a rack. Select the smaller pipe size at top and select the other at the side of the table. Where the appropriate columns intersect, the dimension is given.

These factors are included in the dimensions given:

- O.D. of flanges and fittings.

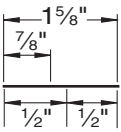
- 1" insulation over flanges and fittings.
- All fractional dimensions less than 1/4" were increased to the next larger 1/4".
- Clear space between fittings as follows:
 1. 1" between piping 3" and smaller.
 2. 1 1/2" between a pipe 3" and smaller and a pipe 4" or larger.
 3. 2" between piping 4" and larger.

| Normal Pipe Dia. (In.) | | Normal Pipe Diameter, Inches | | | | | | | | | | | |
|------------------------|---|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | | 3/4" | | 1" | | | 1 1/4" | | | 1 1/2" | | | |
| | | T | S | T | F | S | T | F | S | T | F | S | |
| 3/4 | T | 4 3/4 | — | — | — | — | — | — | — | — | — | — | |
| | S | 4 1/2 | 4 1/4 | | | | | | | | | | |
| 1 | T | 5 | 4 3/4 | 5 1/4 | — | — | — | — | — | — | — | — | |
| | F | 6 | 5 3/4 | 6 1/4 | | | | | | | | | 7 1/4 |
| | S | 4 3/4 | 4 1/2 | 5 | | | | | | | | | 6 |
| 1 1/4 | T | 5 1/4 | 5 | 5 1/2 | 6 1/2 | 5 | 5 1/2 | — | — | — | — | — | |
| | F | 6 1/4 | 6 | 6 1/2 | 7 1/2 | 6 1/4 | 6 3/4 | | | | | | 7 3/4 |
| | S | 4 3/4 | 4 1/2 | 5 | 6 | 4 1/2 | 5 1/4 | | | | | | 6 1/4 |
| 1 1/2 | T | 5 1/4 | 5 | 5 1/2 | 6 1/2 | 5 1/4 | 5 3/4 | 6 3/4 | 5 1/4 | 5 3/4 | — | — | |
| | F | 6 1/2 | 6 1/4 | 6 3/4 | 7 3/4 | 6 1/4 | 6 3/4 | 8 | 6 1/2 | 7 | | | 8 |
| | S | 5 | 4 3/4 | 5 1/4 | 6 1/4 | 4 3/4 | 5 1/4 | 6 | 5 | 5 1/2 | | | 6 1/2 |
| 2 | T | 5 3/4 | 5 1/2 | 6 | 7 | 5 1/2 | 6 | 7 1/4 | 5 3/4 | 6 1/4 | 7 1/4 | 5 3/4 | |
| | F | 7 | 6 3/4 | 7 1/4 | 8 1/4 | 6 3/4 | 7 1/4 | 8 1/2 | 7 | 7 1/2 | 8 1/2 | 7 | |
| | S | 5 1/4 | 5 | 5 1/2 | 6 1/2 | 5 | 5 1/2 | 6 3/4 | 5 1/4 | 5 3/4 | 6 3/4 | 5 1/4 | |
| 2 1/2 | T | 6 | 5 3/4 | 6 1/4 | 7 1/4 | 6 | 6 1/2 | 7 1/2 | 6 | 6 1/2 | 7 3/4 | 6 1/4 | |
| | F | 7 1/2 | 7 1/4 | 7 3/4 | 8 3/4 | 7 1/4 | 7 3/4 | 9 | 7 1/2 | 8 | 9 | 7 1/2 | |
| | S | 5 1/2 | 5 1/4 | 5 3/4 | 6 3/4 | 5 1/4 | 5 3/4 | 7 | 5 1/2 | 6 | 7 | 5 1/2 | |
| 3 | T | 6 1/4 | 6 | 6 1/2 | 7 1/2 | 6 1/4 | 6 3/4 | 7 3/4 | 6 1/4 | 6 3/4 | 8 | 6 1/2 | |
| | F | 7 3/4 | 7 1/2 | 8 | 9 | 7 1/2 | 8 | 9 1/4 | 7 3/4 | 8 1/4 | 9 1/4 | 7 3/4 | |
| | S | 5 3/4 | 5 1/2 | 6 | 7 | 5 1/2 | 6 | 7 1/4 | 5 3/4 | 6 1/4 | 7 1/4 | 5 3/4 | |
| 4 | T | 7 1/2 | 7 1/4 | 7 3/4 | 8 3/4 | 7 1/4 | 7 3/4 | 9 | 7 1/2 | 8 | 9 | 7 1/2 | |
| | F | 9 | 8 3/4 | 9 1/4 | 10 1/4 | 8 3/4 | 9 1/4 | 10 1/2 | 9 | 9 1/2 | 10 1/2 | 9 | |
| | S | 6 3/4 | 6 1/2 | 7 | 8 | 6 1/2 | 7 | 8 1/4 | 6 3/4 | 7 1/4 | 8 1/4 | 6 3/4 | |
| 5 | T | 8 | 7 3/4 | 8 1/4 | 9 1/4 | 7 3/4 | 8 1/4 | 9 1/2 | 8 | 8 1/2 | 9 1/2 | 8 | |
| | F | 9 1/2 | 9 1/4 | 9 3/4 | 10 3/4 | 9 1/4 | 9 3/4 | 11 | 9 1/2 | 10 | 11 | 9 1/2 | |
| | S | 7 1/4 | 7 | 7 1/2 | 8 1/4 | 7 | 7 1/2 | 8 3/4 | 7 1/4 | 7 3/4 | 8 3/4 | 7 1/4 | |
| 6 | T | 8 3/4 | 8 1/2 | 9 | 10 | 8 1/2 | 9 | 10 1/4 | 8 3/4 | 9 1/4 | 10 1/4 | 8 3/4 | |
| | F | 10 | 9 3/4 | 10 1/4 | 11 1/4 | 9 3/4 | 10 1/4 | 11 1/2 | 10 | 10 1/2 | 11 1/2 | 10 | |
| | S | 7 3/4 | 7 1/2 | 8 | 9 | 7 1/2 | 8 | 9 1/4 | 7 3/4 | 8 1/4 | 9 1/4 | 7 3/4 | |
| 8 | T | 8 3/4 | 9 1/2 | 10 | 11 | 9 3/4 | 10 1/2 | 11 1/4 | 9 3/4 | 10 1/4 | 11 1/2 | 10 | |
| | F | 11 1/4 | 11 | 11 1/2 | 12 1/2 | 11 | 11 1/2 | 12 3/4 | 11 1/4 | 11 3/4 | 12 3/4 | 11 1/4 | |
| 10 | T | 11 1/4 | 11 | 11 1/2 | 12 1/2 | 11 | 11 1/2 | 12 3/4 | 11 1/4 | 11 3/4 | 12 3/4 | 11 1/4 | |
| | F | 12 1/2 | 12 1/4 | 12 3/4 | 13 3/4 | 12 1/4 | 12 3/4 | 14 | 12 1/2 | 13 | 14 | 12 1/2 | |
| 12 | T | 12 1/4 | 12 | 12 1/2 | 13 1/2 | 12 | 12 1/2 | 13 3/4 | 12 1/4 | 12 3/4 | 13 3/4 | 12 1/4 | |
| | F | 14 | 13 3/4 | 14 1/4 | 15 1/4 | 13 3/4 | 14 1/4 | 15 1/2 | 14 | 14 1/2 | 15 1/2 | 14 | |

T – denotes threaded IPS pipe.

F – denotes flanged fittings on pipe.

S – denotes soldered or brazed tubing.



Tables of Pipe Spacing (cont.)




| Nominal Pipe Dia. (In.) | Nominal Pipe Diameter, Inches | | | | | | | | | | | | |
|----------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 2" | | | 2½" | | | 3" | | | 4" | | | |
| | T | F | S | T | F | S | T | F | S | T | F | S | |
| 2 | T | 6½ | – | – | – | – | – | – | – | – | – | – | |
| | F | 7¾ | 9 | – | – | – | – | – | – | – | – | – | |
| | S | 6 | 7¼ | 5½ | – | – | – | – | – | – | – | – | |
| 2½ | T | 7 | 8¼ | 6½ | 7¼ | – | – | – | – | – | – | – | |
| | F | 8¼ | 9½ | 7¾ | 8¾ | 10 | – | – | – | – | – | – | |
| | S | 6¼ | 7½ | 5¾ | 6¾ | 8 | 6 | – | – | – | – | – | |
| 3 | T | 7¼ | 8½ | 6¾ | 7½ | 9 | 7 | 7¾ | – | – | – | – | |
| | F | 8½ | 9¾ | 8 | 9 | 10¼ | 8¼ | 9¼ | 10½ | – | – | – | |
| | S | 6½ | 7¾ | 6 | 7 | 8¼ | 6¼ | 7¼ | 8½ | 6½ | – | – | |
| 4 | T | 8¼ | 9½ | 7¾ | 8¾ | 10 | 8 | 9 | 10¼ | 8¼ | 10 | – | |
| | F | 9¾ | 11 | 9¼ | 10¼ | 11½ | 9½ | 10½ | 11¾ | 9¾ | 11½ | 13 | |
| | S | 7½ | 8¾ | 7 | 8 | 9¼ | 7¼ | 8¼ | 9½ | 7½ | 9¼ | 10¾ | 8½ |
| 5 | T | 8¾ | 10 | 8¼ | 9¼ | 10½ | 8½ | 9½ | 10¾ | 8¾ | 10¼ | 12 | 9¾ |
| | F | 10¼ | 11½ | 9¾ | 10¾ | 12 | 10 | 11 | 12¼ | 10¼ | 12 | 13½ | 11¼ |
| | S | 8 | 9¼ | 7½ | 8½ | 9¾ | 7¾ | 8¾ | 10 | 8 | 9¾ | 11¼ | 9 |
| 6 | T | 9½ | 10¾ | 9 | 10 | 11¼ | 9¼ | 10¼ | 11½ | 9½ | 11¼ | 12¾ | 10½ |
| | F | 10¾ | 12 | 10¼ | 11¼ | 12½ | 10½ | 11½ | 12¾ | 10¾ | 12½ | 14 | 11¾ |
| | S | 8½ | 9¾ | 8 | 9 | 10¼ | 8¼ | 9¼ | 10½ | 8½ | 10¼ | 11¾ | 9½ |
| 8 | T | 10¾ | 12 | 10½ | 11 | 12½ | 10½ | 11¼ | 12¾ | 10¾ | 12½ | 14 | 11¾ |
| | F | 12 | 13¼ | 11½ | 12½ | 13¾ | 11¾ | 12¾ | 14 | 12 | 13¾ | 15¼ | 13 |
| 10 | T | 12 | 13¼ | 11½ | 12½ | 13¾ | 11¾ | 12¾ | 14 | 12 | 13¾ | 15¼ | 13 |
| | F | 13¼ | 14½ | 12¾ | 13¾ | 15 | 13 | 14 | 15¼ | 13¼ | 15 | 16½ | 14¼ |
| 12 | T | 13 | 14¼ | 12½ | 13½ | 14¾ | 12¾ | 13¾ | 15 | 13 | 14¾ | 16¼ | 14 |
| | F | 14¾ | 16 | 14¼ | 15¼ | 16½ | 14½ | 15½ | 16¾ | 14¾ | 16½ | 18 | 15¾ |



| Nominal Pipe Dia. (In.) | Nominal Pipe Diameter, Inches | | | | | | | | | | | |
|----------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| | 5" | | | 6" | | | 8" | | 10" | | 12" | |
| | T | F | S | T | F | S | T | F | T | F | T | F |
| 5 | T | 11 | – | – | – | – | – | – | – | – | – | – |
| | F | 12½ | 14 | – | – | – | – | – | – | – | – | – |
| | S | 10¼ | 11¾ | 9½ | – | – | – | – | – | – | – | – |
| 6 | T | 11¾ | 13¼ | 11 | 12½ | – | – | – | – | – | – | – |
| | F | 13 | 14½ | 12¼ | 13¼ | 15 | – | – | – | – | – | – |
| | S | 10¾ | 12¼ | 10 | 11½ | 12¾ | 10½ | – | – | – | – | – |
| 8 | T | 13 | 14½ | 12¼ | 13¾ | 15 | 12¾ | 14¾ | – | – | – | – |
| | F | 14¼ | 15¾ | 13½ | 15 | 16¼ | 14 | 16¼ | 17 ½ | – | – | – |
| 10 | T | 14¼ | 15¾ | 13½ | 15 | 16¼ | 14 | 16¼ | 17½ | 17½ | – | – |
| | F | 15½ | 17 | 14¾ | 16¼ | 17½ | 15¼ | 17½ | 18¾ | 18¾ | 20 | – |
| 12 | T | 15¼ | 16¾ | 14½ | 16 | 17¼ | 15 | 17¼ | 18½ | 18½ | 19¾ | 19½ |
| | F | 17 | 18¼ | 16¼ | 17¾ | 19 | 16¾ | 14 | 20¼ | 20¼ | 21½ | 21¼ |

T – denotes threaded IPS pipe.
 F – denotes flanged fittings on pipe.
 S – denotes soldered or brazed tubing.

Metal Channel
Fasteners
Fittings
Pipe & Conduit Clamps
Pipe Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

Minimum Size Power-Strut Channel – To Comply with NFPA 13 Table 2-6.1 5(a) 1996 Edition

| Channel Size | Sect. Mod. (in ³) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|  PS-200 1 ⁵ / ₈ " x 1 ⁵ / ₈ " x 12 ga. | .202 |
|  PS-150 1 ⁵ / ₈ " x 2 ⁷ / ₁₆ " x 12 ga. | .391 |
|  PS-100 1 ⁵ / ₈ " x 3 ¹ / ₄ " x 12 ga. | .628 |

| Channel Size | Sect. Mod. (in ³) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|  PS-150 2T3 1 ⁵ / ₈ " x 4 ⁷ / ₈ " x 12 ga. | 1.153 |
|  PS-100 2T3 1 ⁵ / ₈ " x 6 ¹ / ₂ " x 12 ga. | 1.716 |

Section Modulus Required for Trapeze Members (in.³)

| Span of Trapeze | Pipe Size | | | | | | | | | | | |
|-----------------|-----------|---------------------------------|---------------------------------|------|---------------------------------|------|---------------------------------|------|------|------|------|------|
| | 1" | 1 ¹ / ₄ " | 1 ¹ / ₂ " | 2" | 2 ¹ / ₂ " | 3" | 3 ¹ / ₂ " | 4" | 5" | 6" | 8" | 10" |
| 1 ft. 6 in. | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.15 | 0.18 | 0.24 | 0.32 |
| | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.15 | 0.18 | 0.22 | 0.30 | 0.41 |
| 2 ft. 0 in. | 0.11 | 0.12 | 0.12 | 0.13 | 0.13 | 0.15 | 0.16 | 0.17 | 0.20 | 0.24 | 0.32 | 0.43 |
| | 0.11 | 0.12 | 0.12 | 0.13 | 0.15 | 0.16 | 0.18 | 0.20 | 0.24 | 0.29 | 0.40 | 0.55 |
| 2 ft. 6 in. | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.20 | 0.21 | 0.25 | 0.30 | 0.40 | 0.54 |
| | 0.14 | 0.15 | 0.15 | 0.16 | 0.18 | 0.21 | 0.22 | 0.25 | 0.30 | 0.36 | 0.50 | 0.68 |
| 3 ft. 0 in. | 0.17 | 0.17 | 0.18 | 0.19 | 0.20 | 0.22 | 0.24 | 0.26 | 0.31 | 0.36 | 0.48 | 0.65 |
| | 0.17 | 0.18 | 0.18 | 0.20 | 0.22 | 0.25 | 0.27 | 0.30 | 0.36 | 0.43 | 0.60 | 0.82 |
| 4 ft. 0 in. | 0.22 | 0.23 | 0.24 | 0.25 | 0.27 | 0.29 | 0.32 | 0.34 | 0.41 | 0.48 | 0.64 | 0.87 |
| | 0.22 | 0.24 | 0.24 | 0.26 | 0.29 | 0.33 | 0.36 | 0.40 | 0.48 | 0.58 | 0.80 | 1.09 |
| 5 ft. 0 in. | 0.28 | 0.29 | 0.30 | 0.31 | 0.34 | 0.37 | 0.40 | 0.43 | 0.51 | 0.59 | 0.80 | 1.08 |
| | 0.28 | 0.29 | 0.30 | 0.33 | 0.37 | 0.41 | 0.45 | 0.49 | 0.60 | 0.72 | 1.00 | 1.37 |
| 6 ft. 0 in. | 0.33 | 0.35 | 0.36 | 0.38 | 0.41 | 0.44 | 0.48 | 0.51 | 0.61 | 0.71 | 0.97 | 1.30 |
| | 0.34 | 0.35 | 0.36 | 0.39 | 0.44 | 0.49 | 0.54 | 0.59 | 0.72 | 0.87 | 1.20 | 1.64 |
| 7 ft. 0 in. | 0.39 | 0.40 | 0.41 | 0.44 | 0.47 | 0.52 | 0.55 | 0.60 | 0.71 | 0.83 | 1.13 | 1.52 |
| | 0.39 | 0.41 | 0.43 | 0.46 | 0.51 | 0.58 | 0.63 | 0.69 | 0.84 | 1.01 | 1.41 | 1.92 |
| 8 ft. 0 in. | 0.44 | 0.46 | 0.47 | 0.50 | 0.54 | 0.59 | 0.63 | 0.68 | 0.81 | 0.95 | 1.29 | 1.73 |
| | 0.45 | 0.47 | 0.49 | 0.52 | 0.59 | 0.66 | 0.72 | 0.79 | 0.96 | 1.16 | 1.61 | 2.19 |
| 9 ft. 0 in. | 0.50 | 0.52 | 0.53 | 0.56 | 0.61 | 0.66 | 0.71 | 0.77 | 0.92 | 1.07 | 1.45 | 1.95 |
| | 0.50 | 0.53 | 0.55 | 0.59 | 0.66 | 0.74 | 0.81 | 0.89 | 1.08 | 1.30 | 1.81 | 2.46 |
| 10 ft. 0 in. | 0.56 | 0.58 | 0.59 | 0.63 | 0.68 | 0.74 | 0.79 | 0.85 | 1.02 | 1.19 | 1.61 | 2.17 |
| | 0.56 | 0.59 | 0.61 | 0.65 | 0.74 | 0.82 | 0.90 | 0.99 | 1.20 | 1.44 | 2.01 | 2.74 |

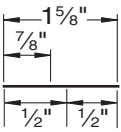
PS-100

PS-150 2T3

PS-100 2T3

Exceeds Section Modulus for Channel Shown Above

Top values are for Schedule 10 pipe; bottom values are for Schedule 40 Pipe.



Electrical Metallic Tubing Data

| Nom. Size EMT Conduit | OD Conduit | Conduit Wt. lbs./ft | Approx. Max Wt. (lbs.ft.) Conduit and Conductor Not Lead Covered |
|-----------------------|------------|---------------------|------------------------------------------------------------------|
| 1/2 | 0.706 | 0.29 | 0.54 |
| 3/4 | 0.922 | 0.45 | 1.16 |
| 1 | 1.163 | 0.65 | 1.83 |
| 1 1/4 | 1.510 | 0.96 | 2.96 |
| 1 1/2 | 1.740 | 1.11 | 3.68 |
| 2 | 2.197 | 1.41 | 4.45 |
| 2 1/2 | 2.875 | 2.15 | 6.41 |
| 3 | 3.500 | 2.60 | 9.30 |
| 3 1/2 | 4.000 | 3.25 | 12.15 |
| 4 | 4.500 | 3.90 | 15.40 |

Application Engineering Data - Conduit Spacings

Spacings in inches between centers of conduits. The light face figures are the minimum dimensions to provide clearance between locknuts. The more liberal spacings printed in bold face type should be used whenever possible.

| Size | Size | | | | | | | | | | | | |
|--------|---------|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|---------|-------|
| | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4" | 4 1/2" | 5" | 6" |
| 1/2" | 1 3/16 | - | - | - | - | - | - | - | - | - | - | - | - |
| | 1 3/8 | | | | | | | | | | | | |
| 3/4" | 1 5/16 | 1 1/16 | - | - | - | - | - | - | - | - | - | - | - |
| | 1 1/2 | 1 5/8 | | | | | | | | | | | |
| 1" | 1 1/2 | 1 5/8 | 1 3/4 | - | - | - | - | - | - | - | - | - | - |
| | 1 3/4 | 1 7/8 | 2 | | | | | | | | | | |
| 1 1/4" | 1 3/4 | 1 7/8 | 2 | 2 1/4 | - | - | - | - | - | - | - | - | - |
| | 2 | 1 1/8 | 2 1/4 | 2 1/2 | | | | | | | | | |
| 1 1/2" | 1 15/16 | 2 1/16 | 2 3/16 | 2 7/16 | 2 9/16 | - | - | - | - | - | - | - | - |
| | 2 1/8 | 2 1/4 | 2 3/8 | 2 5/8 | 2 3/4 | | | | | | | | |
| 2" | 2 3/16 | 2 5/16 | 2 1/2 | 2 3/4 | 2 7/8 | 3 1/8 | - | - | - | - | - | - | - |
| | 2 3/8 | 2 1/2 | 2 3/4 | 3 | 3 1/8 | 3 3/8 | | | | | | | |
| 2 1/2" | 2 7/16 | 2 9/16 | 2 3/4 | 3 | 3 1/8 | 3 3/8 | 3 5/8 | - | - | - | - | - | - |
| | 2 5/8 | 2 3/4 | 3 | 3 1/4 | 3 3/8 | 3 5/8 | 4 | | | | | | |
| 3" | 2 13/16 | 2 15/16 | 3 1/16 | 3 5/16 | 3 7/16 | 3 3/4 | 4 | 4 5/16 | - | - | - | - | - |
| | 3 | 3 1/8 | 3 3/8 | 3 5/8 | 3 3/4 | 4 | 4 3/8 | 4 3/4 | | | | | |
| 3 1/2" | 3 1/8 | 3 1/4 | 3 3/8 | 3 5/8 | 3 3/4 | 4 1/16 | 4 5/16 | 4 5/8 | 4 15/16 | - | - | - | - |
| | 3 3/8 | 3 1/2 | 3 5/8 | 3 7/8 | 4 | 4 3/8 | 4 5/8 | 5 | 5 3/8 | | | | |
| 4" | 3 7/16 | 3 9/16 | 3 11/16 | 3 15/16 | 4 1/16 | 4 3/8 | 4 5/8 | 4 15/16 | 5 1/4 | 5 5/16 | - | - | - |
| | 3 3/4 | 3 7/8 | 4 | 4 1/4 | 4 3/8 | 4 3/4 | 5 | 5 3/8 | 5 5/8 | 6 | | | |
| 4 1/2" | 3 3/4 | 3 7/8 | 4 | 4 1/4 | 4 3/8 | 4 5/8 | 4 7/8 | 5 1/4 | 5 9/16 | 5 5/8 | 6 1/8 | - | - |
| | 4 | 4 1/8 | 4 1/4 | 4 1/2 | 4 3/4 | 5 | 5 1/4 | 5 5/8 | 6 | 6 1/4 | 6 1/2 | | |
| 5" | 4 1/8 | 4 1/4 | 4 3/8 | 4 5/8 | 4 3/4 | 5 | 5 1/4 | 5 9/16 | 5 7/8 | 6 3/16 | 6 1/2 | 6 13/16 | - |
| | 4 3/8 | 4 1/2 | 4 5/8 | 4 7/8 | 5 | 5 3/8 | 5 5/8 | 6 | 6 1/4 | 6 3/8 | 7 | 7 1/4 | |
| 6" | 4 3/4 | 4 7/8 | 5 | 5 1/4 | 5 3/8 | 5 5/8 | 5 7/8 | 6 3/16 | 6 1/2 | 6 13/16 | 7 1/8 | 7 1/16 | 8 1/8 |
| | 5 | 5 1/8 | 5 1/4 | 5 1/2 | 5 5/8 | 6 | 6 1/4 | 6 5/8 | 7 | 7 1/4 | 7 5/8 | 8 | 8 5/8 |

Steel Rigid Conduit Data

| Nom. Size Rigid Conduit | OD Conduit | OD Coupling | Wt. Conduit W/C Pkg. lbs./ft | Approx. Max Wt. (lbs./ft.) Conduit and Conductor | |
|-------------------------|------------|-------------|------------------------------|--------------------------------------------------|------------------|
| | | | | Lead Covered | Not Lead Covered |
| ½" | 0.840 | 1.010 | 0.80 | 1.17 | 1.04 |
| ¾" | 1.050 | 1.250 | 1.09 | 1.75 | 1.40 |
| 1" | 1.315 | 1.525 | 1.65 | 2.62 | 2.35 |
| 1¼" | 1.660 | 1.869 | 2.15 | 4.31 | 3.58 |
| 1½" | 1.900 | 2.155 | 2.58 | 5.89 | 4.55 |
| 2" | 2.375 | 2.650 | 3.52 | 8.53 | 7.21 |
| 2½" | 2.875 | 3.250 | 5.67 | 11.51 | 10.22 |
| 3" | 3.500 | 3.870 | 7.14 | 16.51 | 14.51 |
| 3½" | 4.000 | 4.500 | 8.60 | 19.05 | 17.49 |
| 4" | 4.500 | 4.875 | 10.00 | 24.75 | 21.48 |
| 5" | 5.563 | 6.000 | 13.20 | 35.87 | 30.83 |
| 6" | 6.625 | 7.200 | 17.85 | 50.69 | 43.43 |

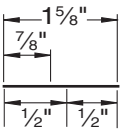
Maximum weight equals weight of rigid conduit plus weight of heaviest conductor combination as specified by the 1996 edition of the "National Electric Code Handbook."

Intermediate Metal Conduit Data

| Nom. Size Rigid Conduit | OD Conduit | OD Coupling | Wt. Conduit W/C Pkg. lbs./ft | Approx. Max Wt. (lbs./ft.) Conduit and Conductor | |
|-------------------------|------------|-------------|------------------------------|--------------------------------------------------|------------------|
| | | | | Lead Covered | Not Lead Covered |
| ½" | 0.815 | 1.010 | 0.60 | 0.97 | 0.84 |
| ¾" | 1.029 | 1.250 | 0.82 | 1.48 | 1.13 |
| 1" | 1.290 | 1.525 | 1.16 | 2.13 | 1.86 |
| 1¼" | 1.638 | 1.869 | 1.50 | 3.66 | 2.93 |
| 1½" | 1.883 | 2.115 | 1.82 | 5.13 | 3.79 |
| 2" | 2.360 | 2.650 | 2.42 | 7.43 | 6.11 |
| 2½" | 2.857 | 3.250 | 4.28 | 10.12 | 8.83 |
| 3" | 3.476 | 3.870 | 5.26 | 14.63 | 12.63 |
| 3½" | 3.971 | 4.500 | 6.12 | 16.57 | 15.01 |
| 4" | 4.466 | 4.875 | 6.82 | 21.57 | 18.30 |

1 Cubic ft. of water weighs 62.35 lbs.

1 Gallon US weighs 8.335 lbs.



Steel Pipe Data - Schedule 40 & 80

| Nominal Pipe Size | Sch. No. | O.D. | Wall Thick | Wt./Ft. | Wt. of Water/Ft |
|-------------------|----------|--------|------------|---------|-----------------|
| 3/8" | 40 | 0.675 | 0.091 | 0.567 | 0.083 |
| | 80 | | 0.126 | 0.738 | 0.061 |
| 1/2" | 40 | 0.840 | 0.109 | 0.850 | 0.132 |
| | 80 | | 0.147 | 1.087 | 0.101 |
| 3/4" | 40 | 1.050 | 0.133 | 1.130 | 0.230 |
| | 80 | | 0.154 | 1.473 | 0.186 |
| 1" | 40 | 1.315 | 0.133 | 1.678 | 0.374 |
| | 80 | | 0.179 | 2.171 | 0.311 |
| 1 1/4" | 40 | 1.660 | 0.140 | 2.272 | 0.647 |
| | 80 | | 0.199 | 2.996 | 0.555 |
| 1 1/2" | 40 | 1.900 | 0.145 | 2.717 | 0.882 |
| | 80 | | 0.200 | 3.631 | 0.765 |
| 2" | 40 | 2.375 | 0.154 | 3.652 | 1.452 |
| | 80 | | 0.218 | 5.022 | 1.279 |
| 2 1/2" | 40 | 2.875 | 0.203 | 5.790 | 2.072 |
| | 80 | | 0.276 | 7.660 | 1.834 |
| 3" | 40 | 3.500 | 0.216 | 7.570 | 3.200 |
| | 80 | | 0.300 | 10.250 | 2.860 |
| 3 1/2" | 40 | 4.000 | 0.226 | 9.110 | 4.280 |
| | 80 | | 0.318 | 12.510 | 3.850 |
| 4" | 40 | 4.500 | 0.237 | 10.790 | 5.510 |
| | 80 | | 0.337 | 14.980 | 4.980 |
| 5" | 40 | 5.563 | 0.258 | 14.620 | 8.660 |
| | 80 | | 0.375 | 20.780 | 7.870 |
| 6" | 40 | 6.625 | 0.280 | 18.970 | 12.510 |
| | 80 | | 0.432 | 28.570 | 11.290 |
| 8" | 40 | 8.625 | 0.322 | 28.550 | 21.600 |
| | 80 | | 0.500 | 43.390 | 19.800 |
| 10" | 40 | 10.750 | 0.365 | 40.480 | 34.100 |
| | 80 | | 0.593 | 64.400 | 31.100 |
| 12" | 40 | 12.750 | 0.406 | 53.600 | 48.500 |
| | 80 | | 0.687 | 88.600 | 44.000 |
| 14" | 40 | 14.000 | 0.437 | 63.000 | 58.500 |
| | 80 | | 0.750 | 107.000 | 51.200 |
| 16" | 40 | 16.000 | 0.500 | 83.000 | 76.500 |
| | 80 | | 0.843 | 137.000 | 69.700 |
| 18" | 40 | 18.000 | 0.563 | 105.000 | 97.200 |
| | 80 | | 0.937 | 171.000 | 88.500 |
| 20" | 40 | 20.000 | 0.593 | 123.000 | 120.400 |
| | 80 | | 1.031 | 209.000 | 109.400 |
| 24" | 40 | 24.000 | 0.687 | 171.000 | 174.200 |
| | 80 | | 1.218 | 297.000 | 158.200 |
| 30" | 20 | 30.000 | 0.500 | 158.000 | 286.000 |
| 36" | API | 36.000 | 0.500 | 190.000 | 417.000 |

Copper Tube Data

| Type L | | | | | |
|-----------|-----------------|--------|------------|--------------|------------------------|
| Tube Size | Nom O.D. Tubing | O.D. | Wall Thick | Wt./Ft. Lbs. | Wt. of Water/ Ft. Lbs. |
| 1/4" | 3/8" | 0.375 | 0.030 | 0.126 | 0.034 |
| 3/8" | 1/2" | 0.500 | 0.035 | 0.198 | 0.062 |
| 1/2" | 5/8" | 0.625 | 0.040 | 0.285 | 0.100 |
| 5/8" | 3/4" | 0.750 | 0.042 | 0.362 | 0.151 |
| 3/4" | 7/8" | 0.875 | 0.045 | 0.455 | 0.209 |
| 1" | 1 1/8" | 1.125 | 0.050 | 0.655 | 0.357 |
| 1 1/4" | 1 3/8" | 1.375 | 0.055 | 0.884 | 0.546 |
| 1 1/2" | 1 5/8" | 1.625 | 0.060 | 1.140 | 0.767 |
| 2" | 2 1/8" | 2.125 | 0.070 | 1.750 | 1.341 |
| 2 1/2" | 2 5/8" | 2.625 | 0.080 | 2.480 | 2.064 |
| 3" | 3 1/8" | 3.125 | 0.090 | 3.330 | 2.949 |
| 3 1/2" | 3 5/8" | 3.625 | 0.100 | 4.290 | 3.989 |
| 4" | 4 1/8" | 4.125 | 0.110 | 5.380 | 5.188 |
| 5" | 5 1/8" | 5.125 | 0.125 | 7.610 | 8.081 |
| 6" | 6 1/8" | 6.125 | 0.140 | 10.200 | 11.616 |
| 8" | 8 1/8" | 8.125 | 0.200 | 19.290 | 20.289 |
| 10" | 10 1/8" | 10.125 | 0.250 | 30.100 | 31.590 |
| 12" | 12 1/8" | 12.125 | 0.280 | 40.400 | 45.426 |

| Type K | | | | | |
|-----------|-----------------|--------|------------|--------------|------------------------|
| Tube Size | Nom O.D. Tubing | O.D. | Wall Thick | Wt./Ft. Lbs. | Wt. of Water/ Ft. Lbs. |
| 1/4" | 3/8" | 0.375 | 0.035 | 0.145 | 0.032 |
| 3/8" | 1/2" | 0.500 | 0.005 | 0.269 | 0.055 |
| 1/2" | 5/8" | 0.625 | 0.049 | 0.344 | 0.094 |
| 5/8" | 3/4" | 0.750 | 0.049 | 0.418 | 0.144 |
| 3/4" | 7/8" | 0.875 | 0.065 | 0.641 | 0.188 |
| 1" | 1 1/8" | 1.125 | 0.065 | 0.839 | 0.337 |
| 1 1/4" | 1 3/8" | 1.375 | 0.065 | 1.040 | 0.527 |
| 1 1/2" | 1 5/8" | 1.625 | 0.072 | 1.360 | 0.743 |
| 2" | 2 1/8" | 2.125 | 0.083 | 2.060 | 1.310 |
| 2 1/2" | 2 5/8" | 2.625 | 0.095 | 2.920 | 2.000 |
| 3" | 3 1/8" | 3.125 | 0.109 | 4.000 | 2.960 |
| 3 1/2" | 3 5/8" | 3.625 | 0.120 | 5.120 | 3.900 |
| 4" | 4 1/8" | 4.125 | 0.134 | 6.510 | 5.060 |
| 5" | 5 1/8" | 5.125 | 0.160 | 9.670 | 8.000 |
| 6" | 6 1/8" | 6.125 | 0.192 | 13.870 | 11.200 |
| 8" | 8 1/8" | 8.125 | 0.271 | 25.900 | 19.500 |
| 10" | 10 1/8" | 10.125 | 0.338 | 40.300 | 30.423 |
| 12" | 12 1/8" | 12.125 | 0.405 | 57.800 | 43.675 |

Spacing of Hangers for Copper Tubing

| Tube Size | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4" | 5" | 6" | 8" | 10" | 12" |
|-------------|------|------|----|--------|--------|----|--------|----|--------|----|----|----|----|-----|-----|
| Span in Ft. | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 12 | 14 | 14 | 18 | 19 |

Spacing of Hangers for Steel Pipe

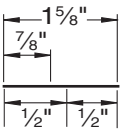
| Nominal Pipe Size, Inches | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" |
|------------------------------|------|------|------|--------|--------|------|--------|------|--------|------|------|------|------|------|------|-----|-----|--------|-------------------|-----|
| Maximum Span, Ft.* | 5 | 6 | 7 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 19 | 2 | 23 | 25 | 27 | 28 | 30 | 32 |
| Recommended Hanger Rod Sizes | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | 7/8" | 7/8" | 7/8" | 1" | 1" | 1 1/4" | 1 1/2" or Trapeze | |

The above spacing and capacities are based on pipe filled with water.

Additional valves and fittings increase the load and therefore closer hanger spacing is required.

* Many codes and specifications state "pipe hangers must be spaced every 10 ft., regardless of size".

Follow local specifications.



PVC Plastic Pipe Data – Schedule 40 & 80

| Nom. Tube Size | Sch. No. | O.D. | Wall Thick | Wt./Ft. Lbs. | Wt. of Water/Ft.Lbs. |
|----------------|----------|-------|------------|--------------|----------------------|
| 1/8" | 40 | 0.405 | 0.068 | 0.043 | 0.025 |
| | 80 | | 0.095 | 0.055 | 0.016 |
| 1/4" | 40 | 0.540 | 0.088 | 0.074 | 0.045 |
| | 80 | | 0.119 | 0.094 | 0.031 |
| 3/8" | 40 | 0.675 | 0.091 | 0.100 | 0.083 |
| | 80 | | 0.126 | 0.129 | 0.061 |
| 1/2" | 40 | 0.840 | 0.109 | 0.150 | 0.132 |
| | 80 | | 0.147 | 0.150 | 0.101 |
| 3/4" | 40 | 1.050 | 0.113 | 0.199 | 0.230 |
| | 80 | | 0.154 | 0.259 | 0.186 |
| 1" | 40 | 1.315 | 0.133 | 0.295 | 0.374 |
| | 80 | | 0.179 | 0.382 | 0.311 |
| 1 1/4" | 40 | 1.660 | 0.140 | 0.400 | 0.647 |
| | 80 | | 0.191 | 0.527 | 0.555 |
| 1 1/2" | 40 | 1.990 | 0.145 | 0.478 | 0.882 |
| | 80 | | 0.200 | 0.639 | 0.765 |
| 2" | 40 | 2.375 | 0.154 | 0.643 | 1.452 |
| | 80 | | 0.218 | 0.884 | 1.279 |

| Nom. Tube Size | Sch. No. | O.D. | Wall Thick | Wt./Ft. Lbs. | Wt. of Water/Ft.Lbs. |
|----------------|----------|--------|------------|--------------|----------------------|
| 2 1/2" | 40 | 2.875 | 0.203 | 1.020 | 2.072 |
| | 80 | | 0.276 | 1.350 | 1.834 |
| 3" | 40 | 3.500 | 0.216 | 1.333 | 3.200 |
| | 80 | | 0.300 | 1.804 | 2.860 |
| 3 1/2" | 40 | 4.000 | 0.226 | 1.598 | 4.280 |
| | 80 | | 0.318 | 2.195 | 3.850 |
| 4" | 40 | 4.500 | 0.237 | 1.899 | 5.510 |
| | 80 | | 0.337 | 2.636 | 4.980 |
| 5" | 40 | 5.563 | 0.258 | 2.770 | 8.660 |
| | 80 | | 0.375 | 4.126 | 7.870 |
| 6" | 40 | 6.625 | 0.280 | 3.339 | 12.150 |
| | 80 | | 0.432 | 5.028 | 11.290 |
| 8" | 40 | 8.625 | 0.322 | 5.280 | 21.600 |
| | 80 | | 0.500 | 8.023 | 19.800 |
| 10" | 40 | 10.750 | 0.366 | 7.505 | 34.100 |
| | 80 | | 0.593 | 11.894 | 31.100 |
| 12" | 40 | 12.750 | 0.406 | 10.023 | 48.500 |
| | 80 | | 0.687 | 16.365 | 44.000 |

Spacing of Hangers for PMC Plastic Pipe

| Sch. 40 | Support Spacings in Feet at Temperatures Shown Above | | | | | | | | | |
|-------------|------------------------------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|
| Pipe Size | 20°F | 40°F | 60°F | 80°F | 100°F | 110°F | 120°F | 130°F | 140°F | 150°F |
| 1/2" – 3/4" | 5.00 | 4.75 | 4.50 | 4.25 | 4.00 | 3.75 | 3.33 | 3.00 | 2.66 | 2.00 |
| 1" – 1 1/4" | 5.50 | 5.25 | 5.00 | 4.66 | 4.33 | 4.00 | 3.75 | 3.33 | 2.80 | 2.25 |
| 1 1/2" – 2" | 5.80 | 5.50 | 5.25 | 5.00 | 4.66 | 4.33 | 3.80 | 3.50 | 3.00 | 2.50 |
| 2 1/2" | 6.66 | 6.33 | 6.00 | 5.50 | 5.25 | 4.80 | 4.50 | 4.00 | 3.50 | 2.80 |
| 3" | 6.80 | 6.50 | 6.25 | 5.80 | 5.50 | 5.25 | 4.75 | 4.25 | 3.66 | 3.00 |
| 4" | 7.33 | 7.00 | 6.50 | 6.25 | 5.80 | 5.50 | 5.00 | 4.50 | 3.80 | 3.25 |
| 6" | 7.80 | 7.50 | 7.00 | 6.80 | 6.33 | 5.80 | 5.33 | 4.80 | 4.25 | 3.50 |

| Sch. 40 | Support Spacings in Feet at Temperatures Shown Above | | | | | | | | | |
|-----------------|------------------------------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|
| Pipe Size | 20°F | 40°F | 60°F | 80°F | 100°F | 110°F | 120°F | 130°F | 140°F | 150°F |
| 1/2" – 3/4" | 5.75 | 5.50 | 5.25 | 4.80 | 4.50 | 4.33 | 3.80 | 3.50 | 3.00 | 2.50 |
| 1" | 6.33 | 6.00 | 5.75 | 5.33 | 5.00 | 4.60 | 4.33 | 3.80 | 3.33 | 2.75 |
| 1 1/4" – 1 1/2" | 6.66 | 6.33 | 6.00 | 5.66 | 5.25 | 4.80 | 4.50 | 4.00 | 3.50 | 3.00 |
| 2" | 7.00 | 6.50 | 6.25 | 6.00 | 5.50 | 5.12 | 4.75 | 4.33 | 3.66 | 3.12 |
| 2 1/2" | 7.80 | 7.50 | 7.00 | 6.66 | 6.33 | 5.80 | 5.33 | 4.75 | 4.25 | 3.33 |
| 3" | 8.20 | 7.75 | 7.33 | 7.00 | 6.50 | 6.00 | 5.50 | 5.00 | 4.33 | 3.50 |
| 4" | 8.66 | 8.25 | 7.80 | 7.33 | 6.80 | 6.33 | 5.80 | 5.25 | 4.66 | 3.75 |
| 6" | 9.80 | 9.33 | 8.80 | 8.33 | 7.80 | 7.33 | 6.50 | 6.00 | 5.12 | 4.25 |

Metal Channel
Fasteners
Fittings
Clamps
Pipe & Conduit
Hangers
Electrical
Concrete Inserts
Solar Components
Unipier®
Jr. Channel
Power-Angle
Fiberglass
Tech. Data

Cast Iron Pipe Data

| Nom. Tube Size | Class | O.D. | Wall Thick | Wt./ Ft. | Wt. of Water Ft. Lbs. |
|----------------|-------|-------|------------|----------|-----------------------|
| 3" | 150 | 3.96 | 0.32 | 12.20 | 3.73 |
| 4" | 150 | 4.80 | 0.35 | 16.40 | 5.72 |
| 6" | 150 | 6.90 | 0.38 | 25.70 | 12.80 |
| 8" | 150 | 9.05 | 0.41 | 36.70 | 23.10 |
| 10" | 150 | 11.10 | 0.44 | 48.70 | 35.50 |
| 12" | 150 | 13.20 | 0.48 | 62.90 | 51.00 |
| 14" | 150 | 15.30 | 0.51 | 78.80 | 69.30 |
| 16" | 150 | 17.40 | 0.54 | 95.00 | 90.30 |
| 18" | 150 | 19.50 | 0.58 | 114.70 | 114.00 |
| 20" | 150 | 21.60 | 0.62 | 135.90 | 141.50 |
| 24" | 150 | 25.80 | 0.73 | 190.40 | 201.00 |
| 30" | 150 | 32.00 | 0.85 | 277.30 | 312.00 |
| 36" | 150 | 38.30 | 0.94 | 368.90 | 449.00 |
| 42" | 150 | 44.50 | 1.05 | 479.10 | 612.00 |
| 48" | 150 | 50.80 | 1.14 | 595.20 | 803.00 |

Mechanical Joint Pipe Class 150. Approximately same weight for Bell & Spigot. Flange cast iron pipe add weight of flanges.

| Nom. Pipe Size | O.D. | Wall Thick | Wt./Ft. Lbs. | Wt. of Water/Ft. Lbs. |
|-----------------------|------|------------|--------------|-----------------------|
| 1½" | 1.84 | 0.12 | 0.64 | 0.89 |
| 2" | 2.34 | 0.14 | 0.94 | 1.45 |
| 3" | 3.41 | 0.17 | 1.60 | 3.19 |
| 4" | 4.53 | 0.20 | 2.60 | 5.79 |
| 6" | 6.66 | 0.24 | 4.70 | 12.78 |
| Heavy Schedule | | | | |
| 1" | 1.31 | 0.16 | 0.60 | 0.35 |
| 1½" | 1.84 | 0.17 | 0.87 | 0.76 |
| 2" | 2.34 | 0.17 | 1.10 | 1.36 |
| 3" | 3.41 | 0.20 | 2.00 | 3.06 |
| 4" | 4.53 | 0.26 | 3.40 | 5.44 |
| 6" | 6.66 | 0.33 | 6.30 | 12.42 |

Spacing of Hangers for glass pipe support every 8-10 ft. Pad all hangers. Use only clevis or trapeze, do not tie down pipe.

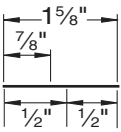
Load Carrying Capacities of Threaded Hot Rolled Steel Rod

Conforming To ASTM A575 And A576

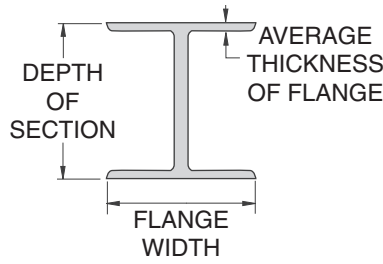
| Nominal Rod Dia. | Root Area Sq. (In.) | Maximum Safe Load, Pounds 650° (lbs.) |
|------------------|---------------------|---------------------------------------|
| ¾" | 0.068 | 730 |
| 1½" | 0.126 | 1,350 |
| 5/8" | 0.202 | 2,160 |
| ¾" | 0.302 | 3,230 |
| 7/8" | 0.419 | 4,480 |
| 1" | 0.552 | 5,900 |

Low Carbon Steel
 Fy = 32,000 psi minimum
 Ft = 52,000 psi minimum

| Threaded Rod Loads for Structural Applications (Based on AISC, Steel Construction Manual, ASD, 9th Edition. Per AISC, Allowed Tensile Stress = 0.33 * Fu) | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|
| Nominal Dia. | Nominal Area In ² | Allowed Tension Load Lbs |
| ¼" | 0.049 | 840 |
| ⅜" | 0.110 | 1,890 |
| 7/16" | 0.150 | 2,570 |
| ½" | 0.196 | 3,360 |
| 5/8" | 0.307 | 5,260 |
| ¾" | 0.442 | 7,580 |
| 7/8" | 0.601 | 10,310 |
| 1" | 0.785 | 13,470 |



I-Beam - "W" Shape

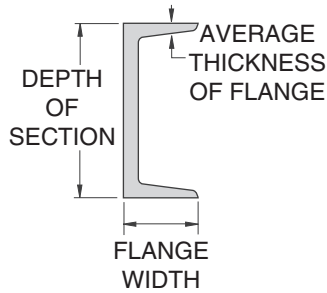


| Depth of Section | Wt/ Foot | Flange Width | Avg. Flange |
|------------------|----------|--------------|-------------|
| 5" | 16 | 5" | 0.360" |
| | 19 | | 0.430" |
| 6" | 12 | 4" | 0.280" |
| | 16 | 4" | 0.405" |
| | 20 | 6" | 0.365" |
| | 25 | | 0.455" |
| 8" | 13 | 4" | 0.255" |
| | 15 | | 0.315" |
| | 18 | 5 1/4" | 0.330" |
| | 21 | | 0.400" |
| | 24 | 6 1/2" | 0.400" |
| | 28 | | 0.465" |
| | 31 | 8" | 0.435" |
| | 35 | | 0.495" |
| | 40 | 8 1/8" | 0.560" |
| | 48 | | 0.685" |
| 58 | 8 1/4" | 0.810" | |
| 67 | | 0.935" | |
| 10" | 15 | 4" | 0.270" |
| | 17 | | 0.330" |
| | 19 | | 0.395" |
| | 22 | 5 3/4" | 0.360" |
| | 26 | | 0.440" |
| | 30 | | 0.510" |
| | 33 | 8" | 0.435" |
| | 39 | | 0.530" |
| | 45 | | 0.620" |
| | 49 | 10" | 0.560" |
| | 54 | | 0.615" |
| | 60 | 10 1/8" | 0.680" |
| | 68 | | 0.770" |
| | 77 | 10 1/4" | 0.870" |
| 88 | | 0.990" | |
| 100 | 10 3/8" | 1.120" | |
| 112 | | 1.250" | |
| 12" | 16 | 4" | 0.265" |
| | 19 | | 0.350" |
| | 22 | | 0.425" |
| | 26 | 6 1/2" | 0.380" |
| | 30 | | 0.440" |
| | 35 | 6 5/8" | 0.520" |
| | 40 | 8" | 0.515" |
| | 45 | | 0.575" |
| | 50 | 8 1/8" | 0.640" |
| | 53 | 10" | 0.575" |
| | 58 | | 0.640" |
| | 65 | 12" | 0.605" |
| 72 | | 0.670" | |

| Depth of Section | Wt/ Foot | Flange Width | Avg. Flange |
|------------------|----------|--------------|-------------|
| 12" (Cont.) | 79 | 12 1/8" | 0.735" |
| | 87 | | 0.810" |
| | 96 | | 0.900" |
| | 106 | 12 1/4" | 0.990" |
| | 120 | 12 3/8" | 1.105" |
| | 136 | | 1.250" |
| | 152 | 12 1/2" | 1.400" |
| | 190 | 12 5/8" | 1.735" |
| 14" | 22 | 5" | 0.335" |
| | 26 | | 0.420" |
| | 30 | 6 3/4" | 0.385" |
| | 34 | | 0.455" |
| | 38 | | 0.515" |
| | 43 | 8" | 0.530" |
| | 48 | | 0.595" |
| | 53 | | 0.660" |
| | 61 | 10" | 0.645" |
| | 68 | | 0.720" |
| | 74 | 10 1/8" | 0.785" |
| | 82 | | 0.855" |
| | 90 | 14 1/2" | 0.710" |
| | 99 | 14 5/8" | 0.780" |
| | 109 | | 0.860" |
| | 120 | | 0.940" |
| | 132 | 14 3/4" | 1.030" |
| | 145 | 15 1/2" | 1.090" |
| | 159 | 15 5/8" | 1.190" |
| | 176 | | 1.310" |
| 193 | 15 3/4" | 1.440" | |
| 211 | | 1.560" | |
| 233 | 15 7/8" | 1.720" | |
| 257 | 16" | 1.890" | |
| 283 | 16 1/8" | 2.070" | |
| 311 | 16 1/4" | 2.260" | |
| 342 | 16 3/8" | 2.470" | |
| 370 | 16 1/2" | 2.660" | |
| 398 | 16 5/8" | 2.845" | |
| 426 | 16 3/4" | 3.035" | |
| 16" | 26 | 5 1/2" | 0.345" |
| | 31 | | 0.440" |
| | 36 | 7" | 0.430" |
| | 40 | | 0.505" |
| | 45 | | 0.565" |
| | 50 | 7 1/8" | 0.630" |
| | 57 | | 0.715" |
| | 67 | 10 1/4" | 0.665" |
| | 77 | | 0.760" |
| | 89 | 10 3/8" | 0.875" |

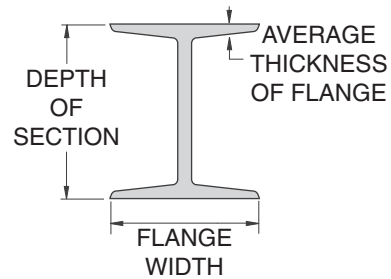
| Depth of Section | Wt/ Foot | Flange Width | Avg. Flange |
|------------------|----------|--------------|-------------|
| 18" | 40 | | 0.525" |
| | 46 | | 0.605" |
| | 50 | 7 1/2" | 0.570" |
| | 55 | | 0.630" |
| | 60 | | 0.695" |
| | 65 | 7 5/8" | 0.750" |
| | 71 | | 0.810" |
| | 76 | 11" | 0.680" |
| | 86 | 11 1/8" | 0.770" |
| | 97 | | 0.870" |
| | 106 | 11 1/4" | 0.940" |
| 119 | | 1.060" | |
| 21" | 44 | 6 1/2" | 0.450" |
| | 50 | | 0.535" |
| | 57 | | 0.650" |
| | 62 | 8 1/4" | 0.615" |
| | 68 | | 0.685" |
| | 73 | | 0.740" |
| | 83 | 8 3/8" | 0.835" |
| | 93 | | 0.930" |
| | 111 | 12 3/8" | 0.875" |
| | 122 | | 0.960" |
| 147 | 12 1/2" | 1.150" | |
| 24" | 55 | 7" | 0.505" |
| | 62 | | 0.590" |
| | 68 | 9" | 0.585" |
| | 76 | | 0.680" |
| | 84 | | 0.770" |
| | 94 | 9 1/8" | 0.875" |
| | 104 | 12 3/4" | 0.750" |
| | 117 | | 0.850" |
| | 131 | 12 7/8" | 0.960" |
| | 146 | | 1.090" |
| 162 | 13" | 1.220" | |
| 27" | 84 | 10" | 0.640" |
| | 94 | | 0.745" |
| | 102 | | 0.830" |
| | 114 | 10 1/8" | 0.930" |
| | 146 | 14" | 0.975" |
| | 161 | | 1.080" |
| | 178 | 14 1/8" | 1.190" |
| 30" | 99 | 10 1/2" | 0.670" |
| | 108 | | 0.760" |
| | 116 | | 0.850" |
| | 124 | | 0.930" |
| | 132 | | 1.000" |
| | 173 | 15" | 1.065" |
| | 191 | | 1.185" |
| | 211 | 15 1/8" | 1.315" |

Channels – American Standard

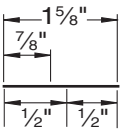


| Depth of Section | Weight/Foot | Flange Width | Avg. Flange Thickness |
|------------------|-------------|---------------------------------|-----------------------|
| 3" | 4.10 | 1 ³ / ₈ " | 0.273" |
| | 5.00 | 1 ¹ / ₂ " | |
| | 6.00 | 1 ⁵ / ₈ " | |
| 4" | 5.40 | 1 ⁵ / ₈ " | 0.296" |
| | 7.25 | 1 ³ / ₄ " | |
| 5" | 6.70 | 1 ³ / ₄ " | 0.320" |
| | 9.00 | 1 ⁷ / ₈ " | |
| 6" | 8.20 | 1 ⁷ / ₈ " | 0.343" |
| | 10.50 | 2" | |
| | 13.00 | 2 ¹ / ₈ " | |
| 7" | 9.80 | 2 ¹ / ₈ " | 0.366" |
| | 12.25 | 2 ¹ / ₄ " | |
| | 14.75 | | |
| 8" | 11.50 | 2 ¹ / ₄ " | 0.390" |
| | 13.75 | 2 ³ / ₈ " | |
| | 18.75 | 2 ¹ / ₂ " | |
| 9" | 13.40 | 2 ³ / ₈ " | 0.413" |
| | 15.00 | 2 ¹ / ₂ " | |
| | 20.00 | 2 ⁵ / ₈ " | |
| 10" | 15.30 | 2 ⁵ / ₈ " | 0.436" |
| | 20.00 | 2 ³ / ₄ " | |
| | 25.00 | 2 ⁷ / ₈ " | |
| | 30.00 | 3" | |
| 12" | 20.70 | 3" | 0.501" |
| | 25.00 | 3 ¹ / ₈ " | |
| | 30.00 | | |
| 15" | 33.90 | 3 ³ / ₈ " | 0.650" |
| | 40.00 | 3 ¹ / ₂ " | |
| | 50.00 | 3 ³ / ₄ " | |
| 18" | 42.70 | 4" | 0.625" |
| | 45.80 | 4 ¹ / ₈ " | |
| | 51.90 | | |

I-Beams – "S" Shape



| Depth of Section | Weight/Foot | Flange Width | Avg. Flange Thickness |
|------------------|-------------|---------------------------------|-----------------------|
| 3" | 5.70 | 2 ³ / ₈ " | 0.260" |
| | 7.50 | 2 ¹ / ₂ " | |
| 4" | 7.70 | 2 ⁵ / ₈ " | 0.293" |
| | 9.50 | 2 ³ / ₄ " | |
| 5" | 10.00 | 3" | 0.326" |
| | 14.75 | 3 ¹ / ₄ " | |
| 6" | 12.50 | 3 ³ / ₈ " | 0.359" |
| | 17.25 | 3 ⁵ / ₈ " | |
| 7" | 15.30 | 3 ⁵ / ₈ " | 0.392" |
| | 20.00 | 3 ⁷ / ₈ " | |
| 8" | 18.40 | 4" | 0.426" |
| | 23.00 | 4 ¹ / ₈ " | |
| 10" | 25.40 | 4 ⁵ / ₈ " | 0.491" |
| | 35.00 | 5" | |
| 12" | 31.80 | 5" | 0.544" |
| | 35.00 | 5 ¹ / ₈ " | |
| | 40.80 | 5 ¹ / ₄ " | |
| 15" | 50.00 | 5 ¹ / ₂ " | 0.659" |
| | 42.90 | 5 ¹ / ₂ " | |
| 18" | 54.70 | 5 ⁵ / ₈ " | 0.622" |
| | 70.00 | 6" | |
| 20" | 66.00 | 6" | 0.691 |
| | 75.00 | 6 ¹ / ₄ " | |
| | 86.00 | 6 ³ / ₈ " | |
| | 96.00 | 7" | |
| 24" | 80.00 | 7" | 0.795 |
| | 90.00 | 7 ¹ / ₈ " | |
| | 100.00 | 7 ¹ / ₄ " | |
| | 106.00 | 7 ³ / ₈ " | |
| | 121.00 | 8" | |



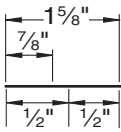
Unit Conversions

| English to Metric | | | Metric to English | | |
|----------------------------------------------------|--------------------------------------|--------------|--------------------------------------|----------------------------------------------------|--------------------|
| To Convert From | To | Multiply By | To Convert From | To | Multiply By |
| Length | | | | | |
| Inch [in] | Millimeter [mm] | 25.400 000 | Millimeter [mm] | Inch [in] | 0.039 370 |
| Foot [ft] | Meter [m] | 0.304 800 | Meter [m] | Foot [ft] | 3.280 840 |
| Yard [yd] | Meter [m] | 0.914 400 | Meter [m] | Yard [yd] | 1.093 613 |
| Mile (U.S. Statute) [mi] | Kilometer [km] | 1.609 347 | Kilometer [km] | Mile (U.S. Statute) [mi] | 0.621 370 |
| Area | | | | | |
| Square Inch [in ²] | Square Millimeter [mm ²] | 645.16 | Square Millimeter [mm ²] | Square Inch [in ²] | 0.001550 |
| Square Foot [ft ²] | Square Meter [m ²] | 0.092 903 | Square Meter [m ²] | Square Foot [ft ²] | 10.763 915 |
| Square Yard [yd ²] | Square Meter [m ²] | 0.836 127 | Square Meter [m ²] | Square Yard [yd ²] | 1.195 991 |
| Square Mile [mi ²] (U.S. Statute) | Square Kilometer [km ²] | 2.589 998 | Square Kilometer [km ²] | Square Mile [mi ²] (U.S. Statute) | 0.386 101 |
| Acre | Square Meter [m ²] | 4,046.873 | Square Meter [m ²] | Acre | 0.000 247 |
| Acre | Hectare | 0.404 687 | Hectare | Acre | 2.471 046 |
| Volume | | | | | |
| Cubic Inch [in ³] | Cubic Millimeter [mm ³] | 16,387.06 | Cubic Millimeter [mm ³] | Cubic Inch [in ³] | 0.000061 |
| Cubic Foot [ft ³] | Cubic Meter [m ³] | 0.028 317 | Cubic Meter [m ³] | Cubic Foot [ft ³] | 35.314 662 |
| Cubic Yard [yd ³] | Cubic Meter [m ³] | 0.764 555 | Cubic Meter [m ³] | Cubic Yard [yd ³] | 1.307 950 |
| Gallon (U.S. Liquid) [gal] | Litre [l] | 3.785 412 | Litre [l] | Gallon (U.S. Liquid) [gal] | 0.264 172 |
| Quart (U.S. Liquid) [qt] | Litre [l] | 0.946 353 | Litre [l] | Quart (U.S. Liquid) [qt] | 1.056 688 |
| Mass | | | | | |
| Ounce (Avoirdupois) [oz] | Gram [g] | 28.349 520 | Gram [g] | Ounce (Avoirdupois) [oz] | 0.035 274 |
| Pound (Avoirdupois) [lb] | Kilogram [kg] | 0.453 592 | Kilogram [kg] | Pound (Avoirdupois) [lb] | 2.204 624 |
| Short Ton | Kilogram [kg] | 907.185 | Kilogram [kg] | Short Ton | 0.00110 |
| Force | | | | | |
| Ounce-Force | Newton [N] | 0.278 014 | Newton [N] | Ounce-Force | 3.596 941 |
| Pound-Force [lbf] | Newton [N] | 4.448 222 | Newton [N] | Pound-Force [lbf] | 0.224 809 |
| Bending Moment | | | | | |
| Pound-Force-Inch [lbf-in] | Newton-Meter [N-m] | 0.112 985 | Newton-Meter [N-m] | Pound-Force-Inch [lbf-in] | 8.850 732 |
| Pound-Force-Foot [lbf-ft] | Newton-Meter [N-m] | 1.355 818 | Newton-Meter [N-m] | Pound-Force-Foot [lbf-ft] | 0.737 562 |
| Pressure, Stress | | | | | |
| Pound-Force per Square Inch [lbf/in ²] | Kilopascal [kPa] | 6.894 757 | Kilopascal [kPa] | Pound-Force per Square Inch [lbf/in ²] | 0.145 038 |
| Foot of Water (39.2 F) | Kilopascal [kPa] | 2.988 980 | Kilopascal [kPa] | Foot of Water (39.2 F) | 0.334 562 |
| Inch of Mercury (32 F) | Kilopascal [kPa] | 3.386 380 | Kilopascal [kPa] | Inch of Mercury (32 F) | 0.295 301 |
| Energy, Work, Heat | | | | | |
| Foot-Pound-Force [ft-lbf] | Joule [J] | 1.355 818 | Joule [J] | Foot-Pound-Force [ft-lbf] | 0.737 562 |
| British Thermal Unit [Btu] | Joule [J] | 1,055.056 | Joule [J] | British Thermal Unit [Btu] | 0.000948 |
| Calorie [cal] | Joule [J] | 4.186 800 | Joule [J] | Calorie [cal] | 0.238 846 |
| Kilowatt Hour [kW-h] | Joule [J] | 3,600,000 | Joule [J] | Kilowatt Hour [kW-h] | 2.78 ⁻⁷ |
| Power | | | | | |
| Foot-Pound-Force /Second [ft-lbs/s] | Watt [W] | 1.355 818 | Watt [W] | Foot-Pound-Force /Second [ft-lbs/s] | 0.737 562 |
| British Thermal Unit /Hour [Btu/h] | Watt [W] | 0.293 071 | Watt [W] | British Thermal Unit /Hour [Btu/h] | 3.412 142 |
| Horsepower (550 Ft. Lbf/s) [hp] | Kilowatt [kW] | 0.745 700 | Kilowatt [kW] | Horsepower (550 Ft. Lbf/s) [hp] | 1.341 022 |
| Angle | | | | | |
| Degree | Radian [rad] | 0.017 453 | Radian [rad] | Degree | 57.295 788 |
| Temperature | | | | | |
| Degree Fahrenheit [F] | Degree Celsius [C] | (F° -32)/1.8 | Degree Celsius [C] | Degree Fahrenheit [F] | 1.8xC° +32 |

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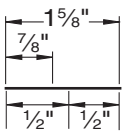


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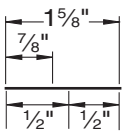


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