



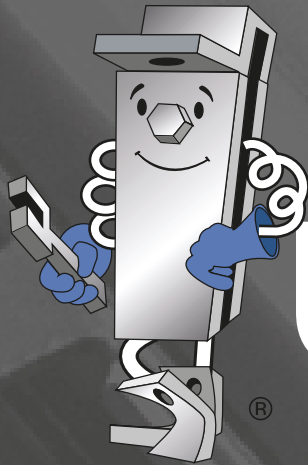
2017

UNISTRUT®

GENERAL ENGINEERING CATALOG – NO. 17A

A PART OF





UNISTRUT[®]

A PART OF  **atkore**
INTERNATIONAL

Unistrut is the original metal framing system featuring a unique weldless connection. The Unistrut system eliminates welding and drilling, and is easily adjustable and reusable for infinite configurations. Over time, our brand has evolved from a simple connection concept to a comprehensive engineered building and support system featuring a robust line of channels, fittings, fasteners, hangers, pipe clamps, and accessories. Backed by our worldwide network of engineering and distribution centers, we provide customers with total-resource capability, making Unistrut the brand everyone asks for by name.

UNISTRUT®

**The Unistrut World of Support
starts with our network of Unistrut
Service Centers across the nation.**

The Unistrut World of Support starts with our network of Unistrut Service Centers across North America. They go far beyond providing local product inventories... by offering complete application solutions, based on experience gained from thousands of projects worldwide.

It's the kind of knowledgeable assistance that can help save time and cost now, and simplify change in the future.

Technical help? No one knows the engineering side of Unistrut support systems like your local Unistrut team. And if it's special fabrication, cutting or custom finishing you want, the pros at your local Unistrut Service Center will make it happen...quickly, efficiently, economically.

So when it's help you need, call your Unistrut Service Center—the quickest way to unlock Unistrut's World of Support.

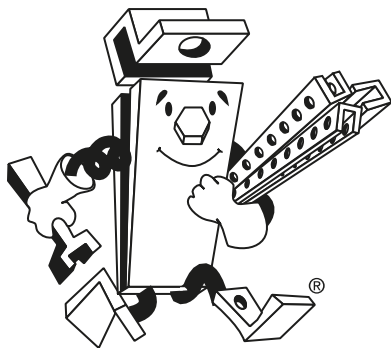


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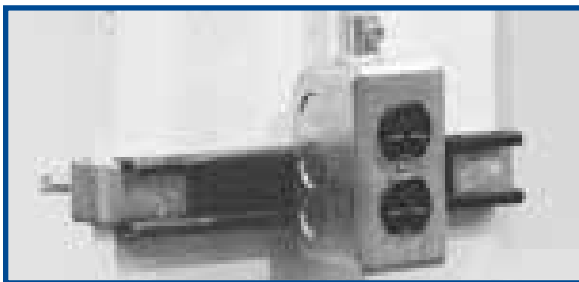
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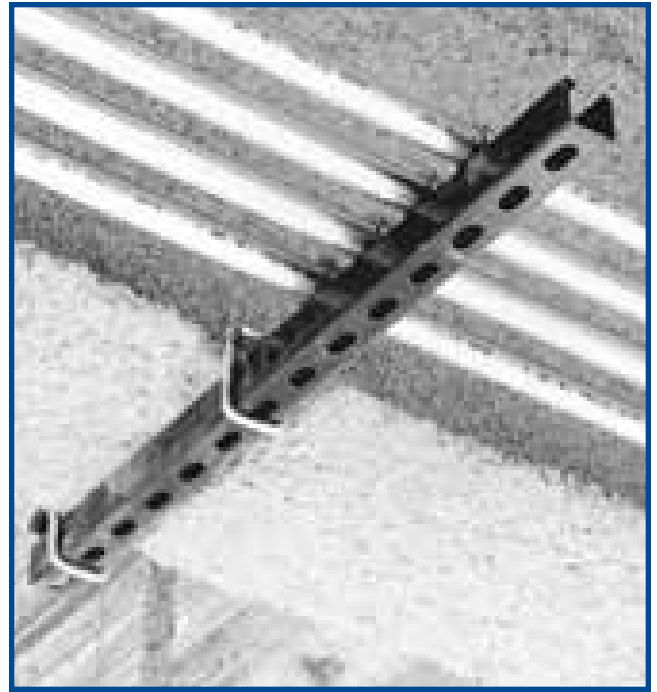
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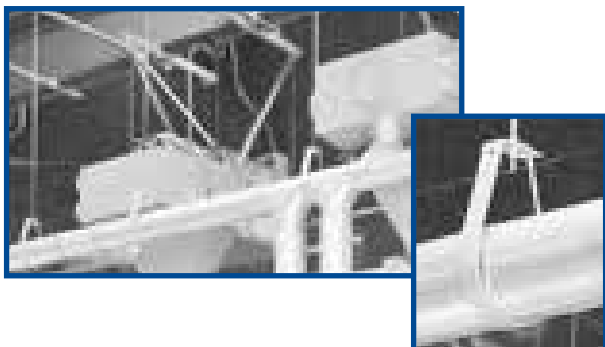
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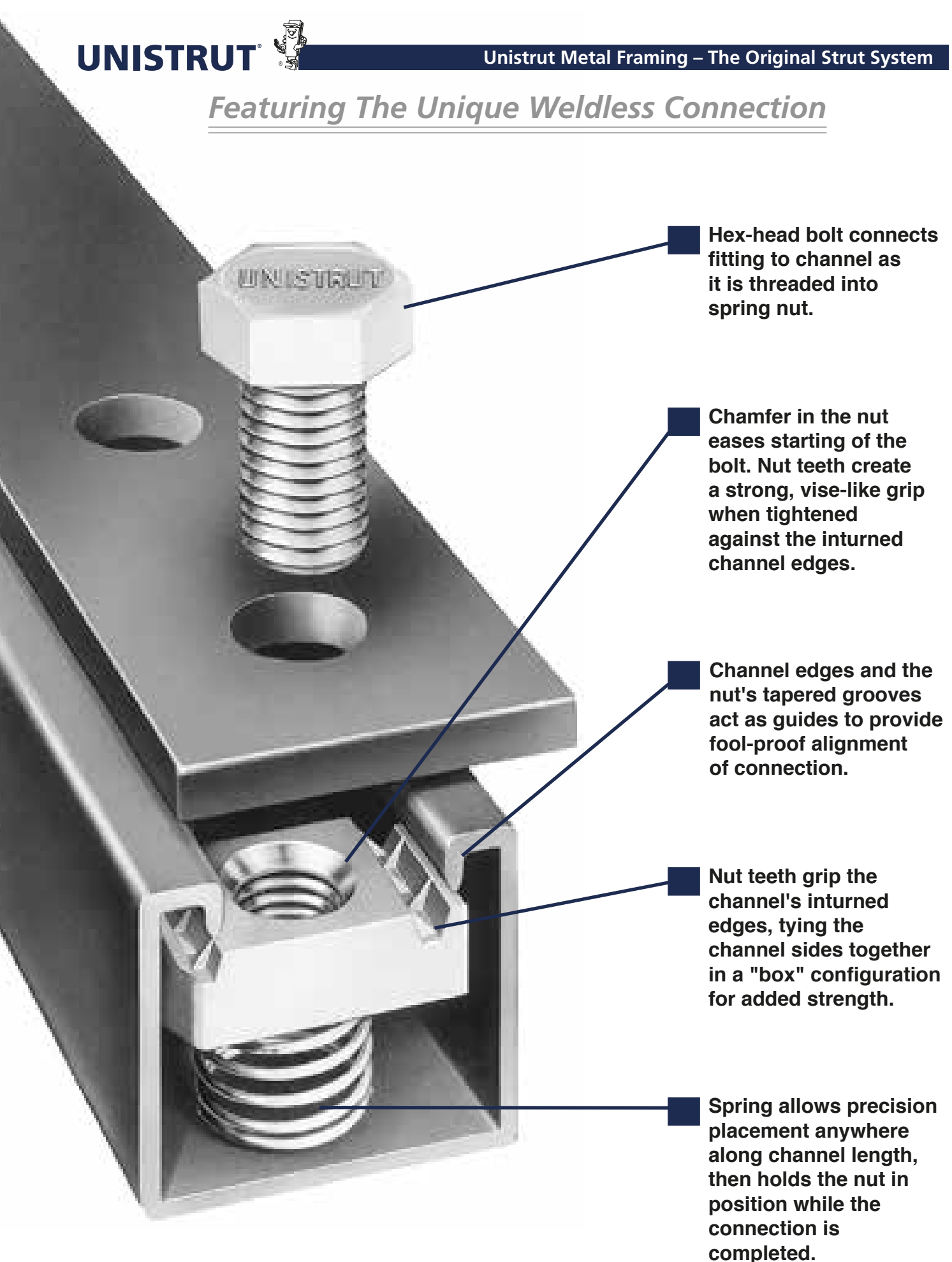
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Featuring The Unique Weldless Connection



Hex-head bolt connects fitting to channel as it is threaded into spring nut.

Chamfer in the nut eases starting of the bolt. Nut teeth create a strong, vise-like grip when tightened against the inturned channel edges.

Channel edges and the nut's tapered grooves act as guides to provide fool-proof alignment of connection.

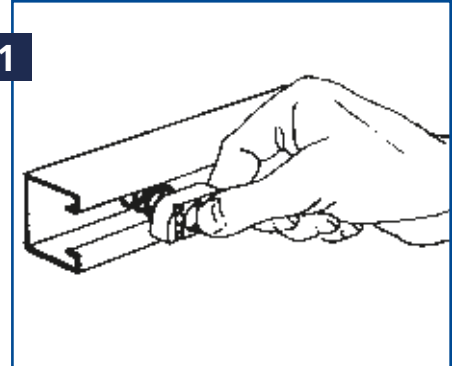
Nut teeth grip the channel's inturned edges, tying the channel sides together in a "box" configuration for added strength.

Spring allows precision placement anywhere along channel length, then holds the nut in position while the connection is completed.

Strong, Fast, Economical and Adjustable

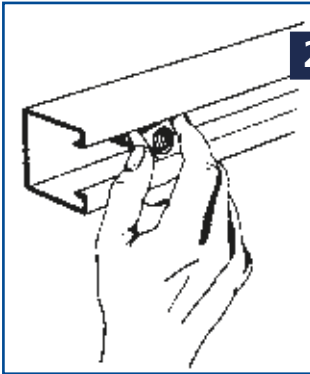
Insert the spring nut anywhere along the continuous slotted channel. The rounded nut ends permit easy insertion.

1



2

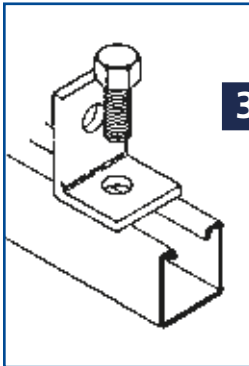
A 90° clockwise turn aligns the grooves in the nut with the inturned edges of the channel.



Fittings can be placed anywhere along the channel opening, permitting complete freedom of adjustment. The need for drilling holes is eliminated.

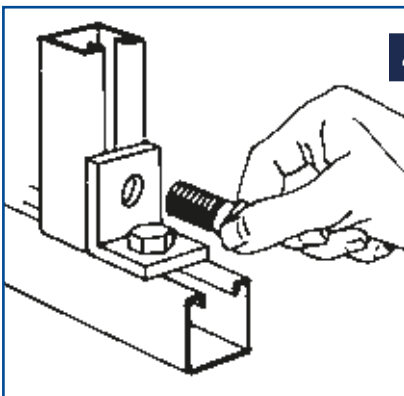
3

Insert the bolt through the fitting and into the spring nut. (See illustration 5 for end view showing the nut in place)



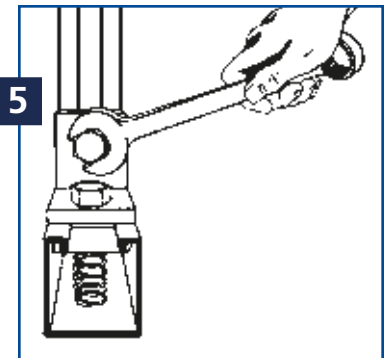
4

Additional channel sections can now be bolted to the fitting already in place by following procedure described in steps 1–3.



5

Tightening with a wrench locks the serrated teeth of the nut into the inturned edges of the channel, to complete a strong, vise-like connection.

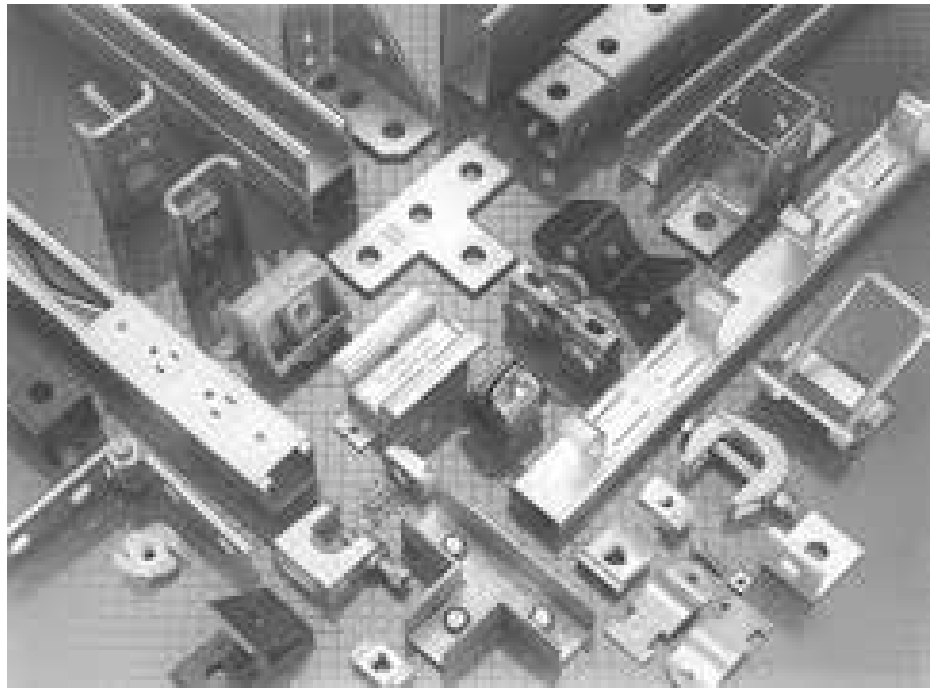


- 100% Adjustable
- 100% Reusable
- No Welding
- No Drilling
- No Special Tools



Serving Design Professionals for Over 85 Years

Unistrut products have been helping to build a better world since 1924. Used extensively in nuclear, industrial and commercial construction markets for over 85 years, Unistrut Metal Framing has set the standard for product design, quality and performance. The initial Unistrut concept — a simple spring nut and bolt connecting a fitting to a continuous slotted channel — has evolved into a comprehensive engineered building and support system.



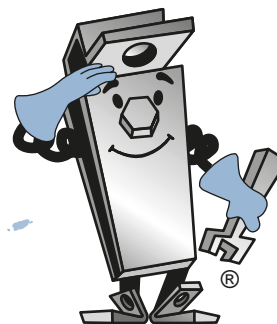
Unistrut® — The Original Metal Framing System

There is only one Unistrut Metal Framing System. It incorporates the innovative product improvements that

our research and development group has created to give you the most complete and flexible support system available. Backed by our worldwide network of engineering and distribution centers, Unistrut provides customers with total-resource capability.

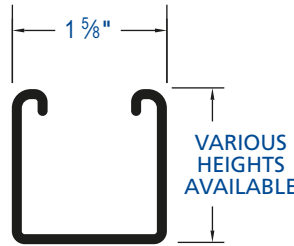
A North American network of Unistrut Service Centers — stocking standard Unistrut components — are located in principal cities to serve you quickly and directly. Many Service Centers are equipped to design and supply drawings for any type of metal framing application and also offer fabrication and installation services.

This catalog is a comprehensive presentation of Unistrut Metal Framing components plus technical data required by design, specification and construction professionals.



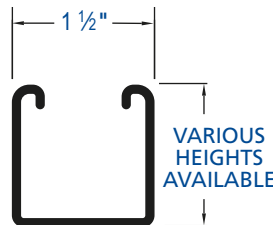
THE MOST COMPLETE METAL FRAMING SYSTEM — FOUR CHANNEL-WIDTH OPTIONS

Adjustability, demountability and reusability are engineered into each of the four Unistrut channel series. Each series offers channels of varying depth and gage plus a complete line of fittings and accessories.



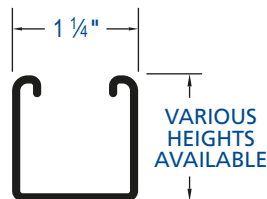
1 5/8" (41.3 mm) width

Designed to carry the heaviest loads and provide the widest variety of applications, the 1 5/8" series has become the accepted standard for use in mechanical, electrical and general construction applications where supports and attachments must meet the highest strength requirements.



1 1/2" (38.1 mm) width

A framing system designed for medium to heavy loads, the 1 1/2" series offers hole spacing and fittings where all parts fit together, no matter where they're used, or at what angle.



1 1/4" (31.8 mm) width

A framing system designed for medium loads, the 1 1/4" series is especially suitable for use in the OEM, commercial and display markets. It maintains a lightness in scale and a clean line that makes it aesthetically pleasing as well as functional.



1 3/16" (20.6 mm) width

A unique half-size reduction of the 1 5/8" channel-width series, this smaller channel size can be used to carry light loads economically in applications such as instrumentation, retail displays and light-duty laboratory supports. It also provides the flexibility found in all Unistrut framing systems.



PRODUCT LOAD TESTING

Product testing is an important part of Unistrut'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, Unistrut will develop a test to quantify and verify it. Using design properties of the Unistrut 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.

QUALITY PROGRAM

Unistrut is committed to being the "best" in the metal framing industry. In order to meet this goal, Unistrut has adopted the philosophy of "Zero Defects and Continuous Improvement". This means on-going reviews of our manufacturing processes,

operating procedures and quality systems to find ways of improving efficiency, productivity and quality. It means establishing process controls and problem-prevention techniques to ensure that superior quality is built into every Unistrut product.

Our drive to be the best includes not just quality products, but on-time delivery and prompt resolution of customer needs and concerns. At Unistrut, quality is number one.

TRACEABILITY

Unistrut channel is stamped with a numeric code that allows traceability to the origin of the steel



MATERIAL

Framing Members

Unistrut channels and continuous inserts are accurately and carefully cold-formed to size from low carbon strip steel. One side of the channel has a continuous slot with inturned edges. Secure attachments may be made to the framing member with the use of hardened, toothed, slotted nuts which engage the inturned edges.

Raw steel shall conform to the following ASTM specifications:

| GAGE | FINISH | ASTM NO. |
|------|---------|----------------|
| 12 | GR & HG | A1011 SS GR 33 |
| | PG | A653 GR 33 |
| 14 | GR & HG | A1011 SS GR 33 |
| | PG | A653 GR 33 |
| 16 | GR & HG | A1011 SS GR 33 |
| | PG | A653 GR 33 |
| 19 | GR | A1008 |

WEIGHTS AND DIMENSIONS

Weights given for all materials are approximate shipping weights. All dimensions are subject to commercial tolerance within published specifications.

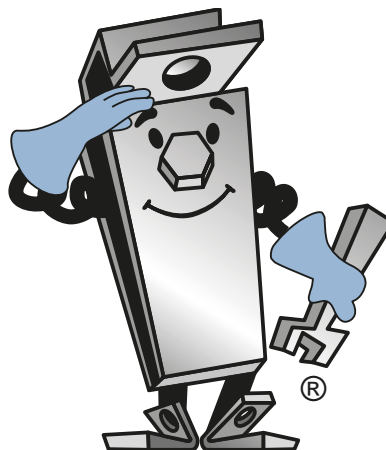
Nuts and Bolts

Unistrut nuts are made from steel bars. After all machining operations are complete, they are thoroughly case hardened. Nuts are rectangular with ends shaped to permit a quarter turn clockwise in the framing member after insertion through the slotted opening in the channel. Two toothed grooves in the top of the nut engage the inturned edges of the channel and, after bolting operations are completed, will prevent any movement of the bolt and nut within the framing member.

All bolts and nuts have Unified coarse screw threads. The standard framing nut is 1/2" and conforms to ASTM A576 GR 1015 modified and A1011 SS GR 45. Screws conform to SAE J429 GR 2.

Fittings

Unistrut fittings, unless noted otherwise, are punch-press made from hot rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM specifications A575, A576, A635 or A36. The fitting steel also meets the physical requirement of ASTM A1011 SS GR 33. The pickling of the steel produces a smooth surface free from scale.



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.

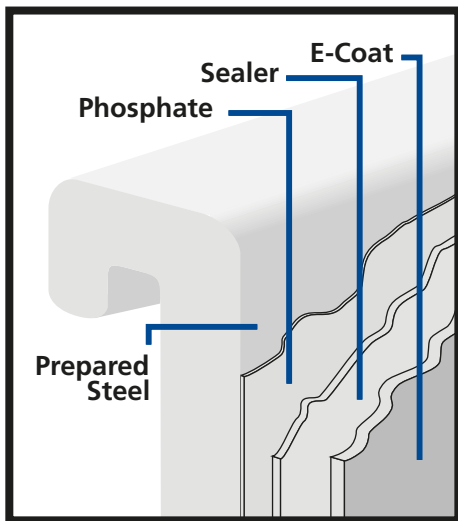
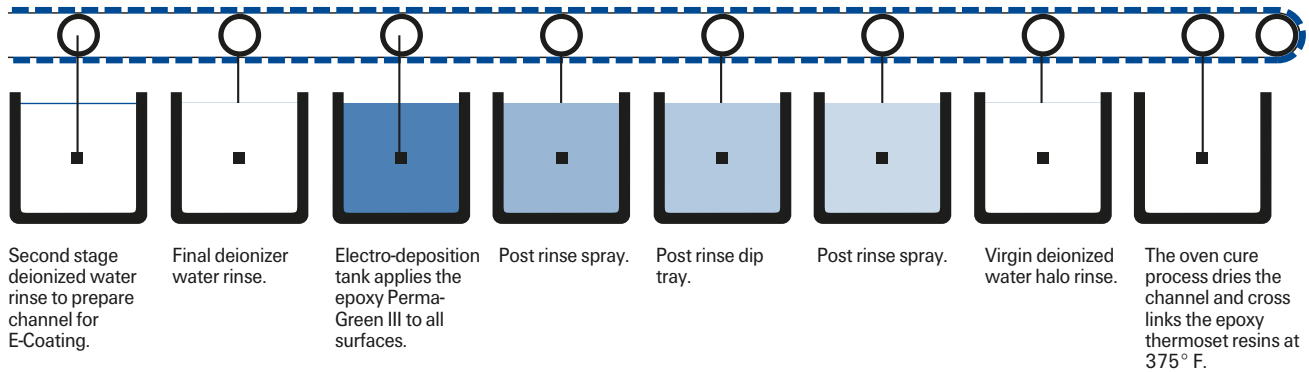
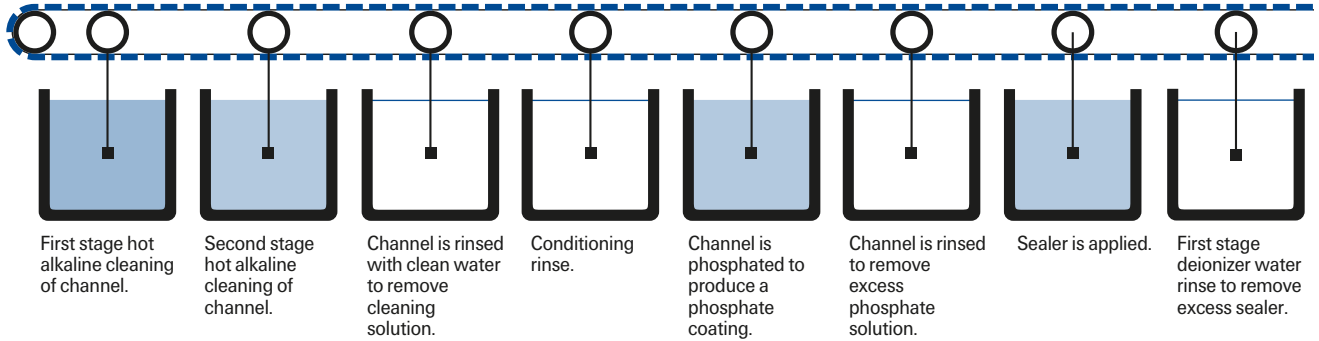
THE BLUE COLOR USED ON UNISTRUT COMPONENTS ILLUSTRATED IN THIS CATALOG IS FOR GRAPHIC ENHANCEMENT ONLY, AND DOES NOT REPRESENT ACTUAL PRODUCT COLOR.



Perma-Green® III

The performance of Unistrut's Perma-Green III far exceeds that of conventional finishes. And compared to competitive "high-performance" coatings, Perma-Green III provides superior resistance to chalking, checking and fading and is far less vulnerable to common acidic atmospheres, solvents and alkalis.

Just as important, Perma-Green III is the result of an environmentally neutral process that virtually eliminates the toxic metals commonly found in competitive paint-based finishes.



PERMA-GREEN® III (GR) TECHNICAL DATA

STEEL SUBSTRATE PREPARATION

Ten stage continuous cleaning, phosphate process.
 Substrate after "prep": sealed phosphate conversion coating.

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 hours per ASTM B117. (1/8" creep)
 Unscribed: exceeds 600 hours per ASTM B117. (6% red rust)
 Chalk:
 Nominal at 1,000 hours per weatherometer G-23 test.
 Checking:
 None at 1,000 hours per weatherometer G-23 test.
 Fade:
 Less than 50% compared to standard epoxy E.C. coatings.

ENVIRONMENTAL ISSUES

Formulated as a "heavy metal"-free coating (trace elements only).
 Outgassing in service: essentially none at 350°F for 24 hours.

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 coil or strip steel material.

Pregalvanized Zinc (PG) ASTM A653

Pregalvanized steel is zinc coated by a hot dip process. Steel strip from a coil is fed through a continuous zinc coater which cleans, fluxes and coats the steel with molten zinc. After cooling, the steel is recoiled.

The pregalvanized zinc coating conforms to a G-90 thickness designation per ASTM A653. The zinc thickness is .75 MIL or .45 oz./sq. ft. of surface area.

This coating is offered on Unistrut channel and tubing and is a well-proven, time-tested performer for indoor and outdoor applications. For severe corrosion applications, hot dip galvanizing, as described below, is a good alternative.

HOT DIP GALVANIZED (HG) ASTM A123 OR A153

In hot dip galvanizing, the finished part is immersed in a bath of molten zinc. This method results in complete zinc coverage and a thicker coating than pregalvanized or plated zinc.

The zinc coating is typically 2.6 MIL or 1.5 oz./sq. ft. of surface area.

This is the coating of choice for applications where severe corrosion is a design factor.

SPECIAL COATING

When specific applications require other than standard available finishes, special finishes can be supplied per customer requirements.

Electroplated Zinc (EG) ASTM B633, Type III SC1 or SC3

In the electroplating process, the part to be zinc coated is immersed in a solution of zinc ions. An electric current causes the zinc to be deposited on the part.

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.

Perma-Gold (ZD) ASTM B633, Type II SC3

Similar to the EG process except in a yellow color.

Unistrut Defender (DF)

Unistrut® Defender™ is a combination of two proprietary material coatings conforming to ASTM standards A1046 and A1059. Channel, Fittings and Pipe Clamps meet the physical requirements of ASTM A1011 SS GR 33, ASTM A1046 SS GR 33, or ASTM A1011 HSLAS GR 45 Class 2.

3X the corrosion resistance of HG!

Zinc Coating

Unistrut products are available in four types of zinc coatings:

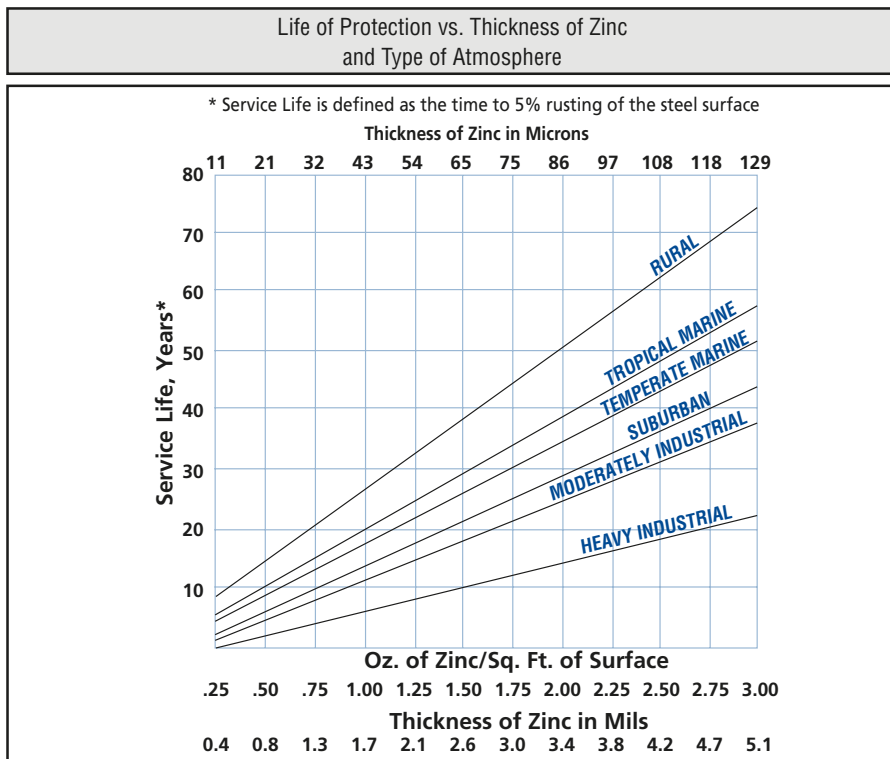
- Electroplated (EG)
- Perma-Gold (ZD)
- Pregalvanized (PG)
- Hot Dip Galvanized (HG).

Zinc offer two types of protection:

- **Barrier:** The zinc coating protects the steel substrate from direct contact with the environment.
- **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 Finishes | |
|-----------------------------|----------------|
| Finish | Zinc Thickness |
| Hot Dip Galvanized | 2.6 MIL |
| Pre-galvanized | 0.75 MIL |
| Electro-Galvanized (SC1) | 0.2 MIL |
| Electro-Galvanized (SC3) | 0.5 MIL |
| Perma-Gold (SC3) | 0.5 MIL |

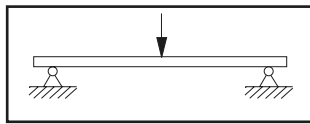




BEAMS

Beams are structural members loaded at right angles (perpendicular) to their length. Most beams are horizontal and subjected to gravity or vertical loads, e.g. a shelf support. However a vertical member can act as a beam under certain conditions, such as a curtain wall mullion subjected to wind loading. The bending moment developed in a beam is dependent on:

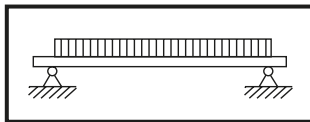
- (a) The amount of load applied,
- (b) The type of loading applied, and
- (c) The support conditions



BEAM LOADING - POINT LOAD

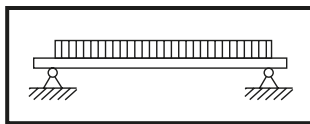
A load concentrated onto a very small length of the beam is a point load.

BEAM LOADING - UNIFORM LOAD



A load spread evenly over a relatively long length of the beam is a uniform load.

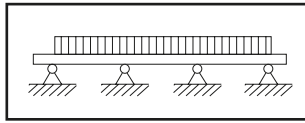
Point and uniform loads can be placed on a beam in any combination. A series of point loads can approximate a uniform loading. The load charts and tables are based on a uniform load unless identified otherwise.



SUPPORT CONDITIONS - SIMPLE BEAM

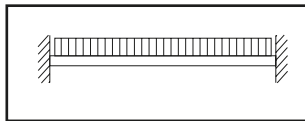
A simple beam has supports that prevent movement left and right, or up and down, but do not restrain the beam from rotating at the supports into a natural deflected curve. Most Unistrut Metal Framing connections produce simple beams. The load charts and tables are based on simple beams unless identified otherwise.

SUPPORT CONDITIONS - CONTINUOUS BEAM



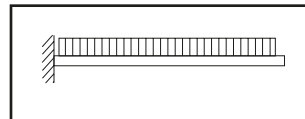
Any simple beam that is supported at one or more intermediate points is a continuous beam. A mezzanine joist that passes over three or more columns is an example of a continuous beam.

SUPPORT CONDITIONS - FIXED-END BEAM



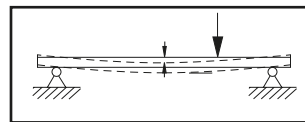
Supports that prevent the beam from rotating into a natural deflected curve produce a fixed-end beam. A welded end connection to very rigid support produces a fixed-end beam.

SUPPORT CONDITIONS - CANTILEVER BEAM



A cantilever beam is a fixed-end beam that is supported at one end only, while the other end is unsupported. Unistrut brackets are examples of cantilever beams.

DEFLECTION



All beams deflect under load. The amount of deflection is dependent on

- (a) the amount of load,
- (b) the support conditions,
- (c) the stiffness of the beam's cross-sectional shape, and
- (d) the stiffness of the beam material.

The stiffness of the beam's cross-sectional shape is measured by its "Moment Of Inertia" or "I". The larger a beam's "I", the stiffer it is and the less it will deflect. A beam's "I" can change for each major axis. The "I" of both major axes (I 1-1 and I 2-2) are provided.

The stiffness of a beam's material is measured by its "Modulus of Elasticity" or "E". The larger a material's "E", the stiffer it is and the less it deflects. For example, steel is about three times stiffer than aluminum and as a result, deflects only one-third as much. Do not confuse stiffness with strength. Two materials may have identical strengths yet still have different "E's". A high-strength aluminum may be as strong as steel and still deflect three times as much.

The load charts and tables give calculated deflections for the loads shown. In many cases, a final design will be determined by the maximum deflection, not the maximum load.

BENDING MOMENT

Is it strong enough? This is the final consideration for any beam. A beam must not only hold up the anticipated loads, but must also have sufficient additional capacity to safely hold unforeseen variations in applied loads and material strengths. This additional capacity is called a safety factor and is usually regulated by the various design codes and standards. A beam's strength is usually measured by an allowable bending moment or an allowable stress. The traditional approach is the allowable stress method, where a beam is determined to have a maximum allowable stress (in pounds per square inch) which is not to be exceeded.

The approach of the current AISI "Specification For The Design Of Cold-Formed Steel Structural Members" is to use a maximum allowable bending moment (in inch-pounds) which is not to be exceeded. Bending moment divided by a beam's section modulus or "S" equals stress.

COLUMNS

Columns are structural members that are loaded parallel to their length. Most columns are vertical and are used to carry loads from a higher level to a lower level. However any member subjected to compression loads, such as a diagonal or prop brace, is a column.

A column fails by “buckling”, which is a sudden loss of straightness and subsequent collapse. Allowable column load is dependent on:

- (a) the length of column,
- (b) the type of loading,
- (c) the support conditions, and
- (d) the column’s cross-sectional shape and material.

COLUMN LENGTH

The column length is measured from braced point to braced point. A braced point is where the column is restrained from lateral movement (translation) in all directions.

COLUMN LOADING – CONCENTRIC LOADING

Loads applied to the center of gravity of the column cross-section are considered concentric. A beam that passes over and rests on the top of a column is an example of concentric loading.

COLUMN LOADING – ECCENTRIC LOADING

Any load which is not concentric is eccentric. The amount of eccentricity (in inches) has a major effect on the load-carrying capacity of any particular column. A load that is transmitted to a Unistrut Metal Framing column using a standard fitting bolted to the slot face is considered eccentric.

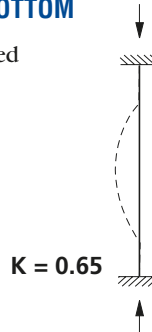
The load tables give allowable loads for both concentric (loaded at C.G.) and certain eccentric (loaded at slot face) loading. Allowable loads for other eccentric loading must be determined by a qualified design professional.

SUPPORT CONDITIONS

Based on the support conditions, an appropriate “K” value is selected. This “K” value, which mathematically describes the column end conditions, is used in the column design equations. The most common support condition combinations are as follows:

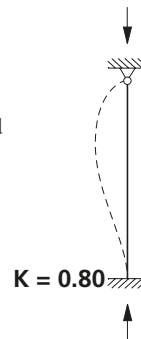
SUPPORT CONDITIONS - FIXED TOP – FIXED BOTTOM

Both ends are restrained against rotation and lateral movement (translation).



SUPPORT CONDITIONS - PINNED TOP – FIXED BOTTOM

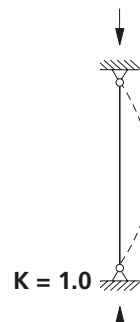
The top is restrained against lateral movement (translation) but is allowed to rotate. The bottom is restrained against rotation and lateral movement.



This is a common support condition and is used to construct the allowable column load applied at the Slot Face tables.

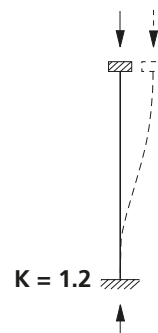
SUPPORT CONDITIONS - PINNED TOP – PINNED BOTTOM

Both ends are restrained against lateral movement (translation) but, are allowed to rotate.



SUPPORT CONDITIONS - FIXED / FREE TOP – FIXED BOTTOM

The top is restrained against rotation but is allowed to move laterally. The bottom is restrained against rotation and lateral movement (translation).



CROSS-SECTIONAL SHAPE

The cross-sectional shape of a column member determines the value of its “Radius of Gyration” or “r”. In general, a member with a large “r” makes a better column than a member with a small “r”. Each axis of a column has a different “r”. Typically the axis with the smallest “r” determines the final design.

BOLT TORQUE

Bolt torque values are given to ensure the proper connection between Unistrut Metal Framing components. It is important to understand that there is a direct, but not necessarily consistent, relationship between bolt torque and tension in the bolt. Too much tension in the bolt can cause it to break or crush the component parts. Too little tension in the bolt can prevent the connection from developing its full load capacity. The torque values given have been developed over many years of experience and testing.

| 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 (N·m) | 6 (8) | 11 (15) | 19 (26) | 50 (68) | 100 (136) | 125 (170) |
| Max Torque Ft/Lbs (N·m) | 7 (9) | 15 (20) | 25 (34) | 70 (95) | 125 (170) | 135 (183) |

These are based on using a properly calibrated torque wrench with a clean dry (non-lubricated) Unistrut fitting, bolt and nut. A lubricated bolt or nut can cause extremely high tension in the connection and may lead to bolt failure. It must be noted that the accuracy of commercial torque wrenches varies widely and it is the responsibility of the installer to ensure that proper bolt torque has been achieved.



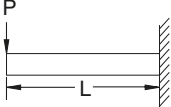

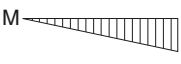
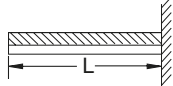
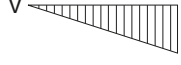
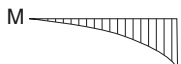
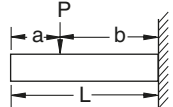

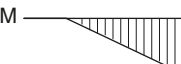
UNIT CONVERSIONS

| English To Metric | | |
|--|--------------------------------------|--------------|
| To Convert From | To | Multiply By |
| Length | | |
| Inch [in] | Millimeter [mm] | 25.400 000 |
| Foot [ft] | Meter [m] | 0.304 800 |
| Yard [yd] | Meter [m] | 0.914 400 |
| Mile [mi] (U.S. Statute) | Kilometer [km] | 1.609 347 |
| Area | | |
| Square Inch [in ²] | Square Millimeter [mm ²] | 645.16 |
| Square Foot [ft ²] | Square Meter [m ²] | 0.092 903 |
| Square Yard [yd ²] | Square Meter [m ²] | 0.836 127 |
| Square Mile [mi ²] (U.S. Statute) | Square Kilometer [km ²] | 2.589 998 |
| Acre | Square Meter [m ²] | 4046.873 |
| Acre | Hectare | 0.404 687 |
| Volume | | |
| Cubic Inch [in ³] | Cubic Millimeter [mm ³] | 16387.06 |
| Cubic Foot [ft ³] | Cubic Meter [m ³] | 0.028 317 |
| Cubic Yard [yd ³] | Cubic Meter [m ³] | 0.764 555 |
| Gallon [gal] (U.S. Liquid) | Litre [l] | 3.785 412 |
| Quart [qt] (U.S. Liquid) | Litre [l] | 0.946 353 |
| Mass | | |
| Ounce (Avoirdupois) [oz] | Gram [g] | 28.349 520 |
| Pound (Avoirdupois) [lb] | Kilogram [kg] | 0.453 592 |
| Short Ton | Kilogram [kg] | 907.185 |
| Force | | |
| Ounce-Force | Newton [N] | 0.278 014 |
| Pound-Force [lbf] | Newton [N] | 4.448 222 |
| Bending Moment | | |
| Pound-Force-Inch [lbf-in] | Newton-Meter [N-m] | 0.112 985 |
| Pound-Force-Foot [lbf-ft] | Newton-Meter [N-m] | 1.355 818 |
| Pressure, Stress | | |
| Pound-Force per Square Inch [lbf/in ²] | Kilopascal [kPa] | 6.894 757 |
| Foot of Water (39.2 F) | Kilopascal [kPa] | 2.988 980 |
| Inch of Mercury (32 F) | Kilopascal [kPa] | 3.386 380 |
| Energy, Work, Heat | | |
| Foot-Pound-Force [ft-lbf] | Joule [J] | 1.355 818 |
| British Thermal Unit [Btu] | Joule [J] | 1055.056 |
| Calorie [cal] | Joule [J] | 4.186 800 |
| Kilowatt Hour [kW-h] | Joule [J] | 3,600,000 |
| Power | | |
| Foot-Pound-Force /Second [ft-lbs/s] | Watt [W] | 1.355 818 |
| British Thermal Unit /Hour [Btu/h] | Watt [W] | 0.293 071 |
| Horsepower [hp] (550 Ft. Lbf/s) | Kilowatt [kW] | 0.745 700 |
| Angle | | |
| Degree | Radian [rad] | 0.017 453 |
| Temperature | | |
| Degree Fahrenheit [°F] | Degree Celsius [°C] | (F° -32)/1.8 |

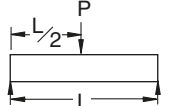


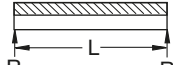


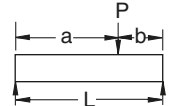
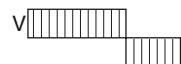
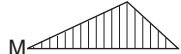
| Metric to English | | |
|--------------------------------------|--|--------------------|
| To Convert From | To | Multiply By |
| Length | | |
| Millimeter [mm] | Inch [in] | 0.039 370 |
| Meter [m] | Foot [ft] | 3.280 840 |
| Meter [m] | Yard [yd] | 1.093 613 |
| Kilometer [km] | Mile [mi] (U.S. Statute) | 0.621 370 |
| Area | | |
| Square Millimeter [mm ²] | Square Inch [in ²] | 0.001550 |
| Square Meter [m ²] | Square Foot [ft ²] | 10.763 915 |
| Square Meter [m ²] | Square Yard [yd ²] | 1.195 991 |
| Square Kilometer [km ²] | Square Mile [mi ²] (U.S. Statute) | 0.386 101 |
| Square Meter [m ²] | Acre | 0.000 247 |
| Hectare | Acre | 2.471 046 |
| Volume | | |
| Cubic Millimeter [mm ³] | Cubic Inch [in ³] | 0.000061 |
| Cubic Meter [m ³] | Cubic Foot [ft ³] | 35.314 662 |
| Cubic Meter [m ³] | Cubic Yard [yd ³] | 1.307 950 |
| Litre [l] | Gallon [gal] (U.S. Liquid) | 0.264 172 |
| Litre [l] | Quart [qt] (U.S. Liquid) | 1.056 688 |
| Mass | | |
| Gram [g] | Ounce (Avoirdupois) [oz] | 0.035 274 |
| Kilogram [kg] | Pound (Avoirdupois) [lb] | 2.204 624 |
| Kilogram [kg] | Short Ton | 0.00110 |
| Force | | |
| Newton [N] | Ounce-Force | 3.596 941 |
| Newton [N] | Pound-Force [lbf] | 0.224 809 |
| Bending Moment | | |
| Newton-Meter [N-m] | Pound-Force-Inch [lbf-in] | 8.850 732 |
| Newton-Meter [N-m] | Pound-Force-Foot [lbf-ft] | 0.737 562 |
| Pressure, Stress | | |
| Kilopascal [kPa] | Pound-Force per Square Inch [lbf/in ²] | 0.145 038 |
| Kilopascal [kPa] | Foot of Water (39.2 F) | 0.334 562 |
| Kilopascal [kPa] | Inch of Mercury (32 F) | 0.295 301 |
| Energy, Work, Heat | | |
| Joule [J] | Foot-Pound-Force [ft-lbf] | 0.737 562 |
| Joule [J] | British Thermal Unit [Btu] | 0.000948 |
| Joule [J] | Calorie [cal] | 0.238 846 |
| Joule [J] | Kilowatt Hour [kW-h] | 2.78 ⁻⁷ |
| Power | | |
| Watt [W] | Foot-Pound-Force /Second [ft-lbs/s] | 0.737 562 |
| Watt [W] | British Thermal Unit /Hour [Btu/h] | 3.412 142 |
| Kilowatt [kW] | Horsepower (550 Ft. Lbf/s) [hp] | 1.341 022 |
| Angle | | |
| Radian [rad] | Degree | 57.295 788 |
| Temperature | | |
| Degree Celsius [°C] | Degree Fahrenheit [°F] | 1.8xC°+32 |

BEAM SUPPORT CONDITIONS

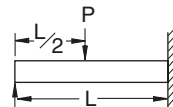





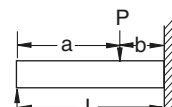
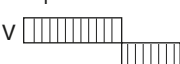

Cantilever Beams

| | | |
|---|---|---|
|  <p>$V \text{ max.} = P$ $M \text{ max.} = PL$ $\Delta \text{ max.} = \frac{PL^3}{3EI}$</p>   |  <p>$V \text{ max.} = W$ $M \text{ max.} = \frac{WL}{2}$ $\Delta \text{ max.} = \frac{WL^3}{8EI}$</p>   |  <p>$V \text{ max.} = P$ $M \text{ max.} = Pb$ $\Delta \text{ max.} = \frac{Pb^2(3L-b)}{6EI}$</p>   |
|---|---|---|

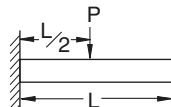


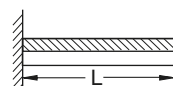
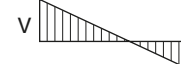

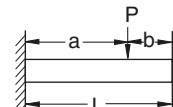


Simple Beams

| | | |
|--|--|---|
|  <p>$R = \frac{P}{2}$ $V \text{ max.} = \frac{P}{2}$ $M \text{ max.} = \frac{PL}{4}$ $\Delta \text{ max.} = \frac{PL^3}{48EI}$</p>   |  <p>$R = \frac{W}{2}$ $V \text{ max.} = \frac{W}{2}$ $M \text{ max.} = \frac{WL}{8}$ $\Delta \text{ max.} = \frac{5WL^3}{384EI}$</p>   |  <p>$R_1 = \frac{Pb}{L}$ $R_2 = \frac{Pa}{L}$ $V \text{ max.} = \frac{Pa}{L}$ $M \text{ max.} = \frac{Pab}{L}$ $\Delta \text{ max.} = \frac{Pab(a+2b)}{27EI} \sqrt{\frac{3a(a+2b)}{27EI}}$</p>   |
|--|--|---|

Beams Fixed At One End & Supported At The Other

| | | |
|---|---|---|
|  <p>$R_1 = \frac{5P}{16}$ $V \text{ max.} = \frac{11P}{16}$ $M \text{ max.} = \frac{3PL}{16}$ $\Delta \text{ max. at } x = 0.447L$ $\Delta \text{ max.} = 0.009317 \frac{PL^3}{EI}$</p>   |  <p>$R_1 = \frac{3W}{8}$ $V \text{ max.} = \frac{5W}{8}$ $M \text{ max.} = \frac{WL}{8}$ $\Delta \text{ max. at } x = 0.4215L$ $\Delta \text{ max.} = \frac{WL^3}{185EI}$</p>   |  <p>$R_1 = \frac{Pb^2}{2L^3}(a+2L)$ $R_2 = \frac{Pa}{2L^3}(3L^2-a^2)$ $M \text{ at point of load} = R_1 a$ $M \text{ at fixed end} = \frac{Pab}{2L^3}(a+L)$</p>   |
|---|---|---|

Beams Fixed At Both Ends

| | | |
|---|--|---|
|  <p>$V \text{ max.} = \frac{P}{2}$ $M \text{ max.} = \frac{PL}{8}$ $\Delta \text{ max.} = \frac{PL^3}{192EI}$</p>   |  <p>$V \text{ max.} = \frac{W}{2}$ $M \text{ max.} = \frac{WL}{12}$ $\Delta \text{ max.} = \frac{WL^3}{384EI}$</p>   |  <p>$R_1 = \frac{Pb^2}{L^3}(3a+b)$ $R_2 = \frac{Pa^2}{L^3}(a+3b)$ $M_1 = \frac{Pab^2}{L^2}$ $M_2 = \frac{Pa^2b}{L^2}$</p>   |
|---|--|---|

R – Reaction
 M – Moment
 P – Concentrated Load


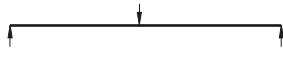
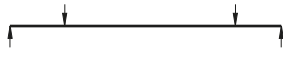
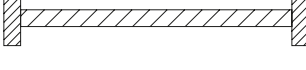
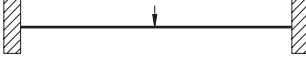
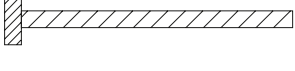

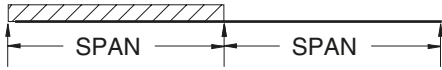
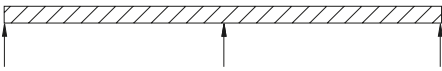

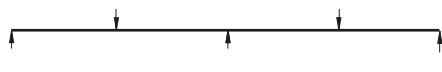
W – Total Uniform Load
 V – Shear
 L – Length

Δ – Deflection
 E – Modulus of Elasticity
 I – Moment of Inertia



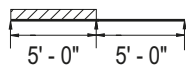
CONVERSION FACTORS FOR BEAMS WITH VARIOUS STATIC LOADING CONDITIONS

All Beam Load tables are for single-span (simple) beams supported at the ends. These can be used in the majority of the cases. However, there are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown below. Simply multiply the values from the Beam Load tables by factors given 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 |  | .50 | .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 | .30 |
| 5. Beam Fixed at Both Ends, Concentrated Load at Center |  | 1.00 | .40 |
| 6. Cantilever Beam, Uniform Load |  | .25 | 2.40 |
| 7. Cantilever Beam, Concentrated Load at End |  | .12 | 3.20 |
| 8. Continuous Beam, Two Equal Spans, Uniform Load on One Span |  | 1.30 | .92 |
| 9. Continuous Beam, Two Equal Spans, Uniform Load on Both Ends |  | 1.00 | .42 |
| 10. Continuous Beam, Two Equal Spans, Concentrated Load at Center of One Span |  | .62 | .71 |
| 11. Continuous Beam, Two Equal Spans, Concentrated Load at Center of Each Span |  | .67 | .48 |

EXAMPLE I:

Determine load and deflection of a P 1000 beam continuous over one support and loaded uniformly on one span.

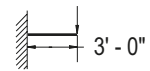


SOLUTION:

- From load table for P1000 on page 25 load for a 5'-0" span is 680# and deflection is .35".
- Multiply by factors from Table above.
Load = 680# x 1.30 = 884#
Deflection = .35" x .92 = .32"

EXAMPLE II

Determine load and deflection of a P 5500 cantilever beam with a concentrated load on the end.



SOLUTION:

- From load table P5500 on page 58 load for a 3'-0" span is 2180# and deflection is .09".
- Multiply by factors from Table above.
Load = 2180# x .12 = 262#
Deflection = .09" x 3.20 = .29"

PART I - GENERAL**1.01 SCOPE OF WORK**

- A. Provide all Unistrut Metal Framing material, fittings and related accessories (Strut System) as indicated on the Contract Drawings.
- B. Provide all labor, supervision, engineering, and fabrication required for installation of the Strut System in accordance with the Contract Drawings and as specified herein.
- C. Related work specified elsewhere.

1.02 QUALITY ASSURANCE

- A. Manufacturer's qualifications:
 - 1. The manufacturer shall not have had less than 10 year's experience in manufacturing Strut Systems.
 - 2. The manufacturer must certify in writing all components supplied have been produced in accordance with an established quality assurance program.
- B. Installer's qualifications:
 - 1. Installer must be a Unistrut trained manufacturer's authorized representative/installer with not less than 5 years experience in the installation of Strut Systems of this size and conformation.
 - 2. All Strut System components must be supplied by a single manufacturer.
- C. Standards:
 - 1. Work shall meet the requirements of the following standards:
 - a. Federal, State and Local codes.
 - b. American Iron and Steel Institute (AIS) Specification for the Design of Cold-Formed Steel Structural Members 2007 Edition.
 - c. American Society for Testing And Materials (ASTM).

1.03 SUBMITTALS

- A. Structural Calculations and Shop Drawings
 - 1. Submit structural calculations for approval by the project engineer. Calculations may include, but are not limited to:
 - a. Description of design criteria.
 - b. Stress and deflection analysis.
 - c. Selection of Unistrut framing members, fittings, and accessories.
 - 2. Submit all shop/assembly drawings necessary to completely install the Strut System in compliance with the Contract Drawings.
 - 3. Submit all pertinent manufacturer's published data.

1.04 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. All material is to be delivered to the work site in original factory packaging to avoid damage to the finish.
- B. Upon delivery to the work site, all components shall be protected from the elements by a shelter or other covering.

1.05 GUARANTEE

- A. Separate guarantees shall be issued from the erector and manufacturer, valid for a period of 1 year, against any defects that may arise from the installation or manufacture of the Strut System components.

PART 2 - PRODUCTS**2.01 ACCEPTABLE MANUFACTURERS**

- A. All Strut System components shall be as manufactured by UNISTRUT CORPORATION or approved equal as determined by the Architect or Engineer of record in writing 10 days prior to bid date.

2.02 MATERIALS

- A. All channel members shall be fabricated from structural grade steel conforming to one of the following ASTM specifications: A 1011 SS GR 33, A 653 GR 33.
- B. All fittings shall be fabricated from steel conforming to one of the following ASTM specifications: A 575, A 576, A 36 or A 635.
- C. Substitutions
 - Any substitutions of product or manufacturer must be approved in writing ten days prior to bid date, by Architect or Engineer of record.

2.03 FINISHES

- A. Strut System components shall be finished in accordance with one of the following standards:
 - 1. PERMA-GREEN® III (GR)
 - Rust inhibiting epoxy enamel paint applied by electro-deposition, after cleaning and phosphating, and thoroughly baked. Color is per Federal Highway Green, Color Tolerance Chart PR Color No. 4. Finish to withstand minimum 400 hours salt spray when tested in accordance with ASTM B117.
 - 2. ELECTRO-GALVANIZED (EG)
 - Electrolytically zinc coated per ASTM B 633 Type III SC 1

- 3. PRE-GALVANIZED (PG)
 - Zinc coated by hot-dipped process prior to roll forming. The zinc weight shall be G90 conforming to ASTM A 653.
- 4. HOT-DIPPED GALVANIZED (HG)
 - Zinc coated after all manufacturing operations are complete. Coating shall conform to ASTM A 123 or A 153.
- 5. UNISTRUT DEFENDER™ (DF)
 - Coating conforming to ASTM A1046 or A1059.
- 6. SPECIAL COATING / MATERIAL
 - (Describe as applicable)

PART 3 - EXECUTION**3.01 EXAMINATION**

- A. The installer shall inspect the work area prior to installation. If work area conditions are unsatisfactory, installation shall not proceed until satisfactory corrections are completed.

3.02 INSTALLATION

- A. Installation shall be accomplished by a fully trained manufacturer authorized installer.
- B. Set Strut System components into final position true to line, level and plumb, in accordance with approved shop drawings.
- C. Anchor material firmly in place. Tighten all connections to their recommended torques.

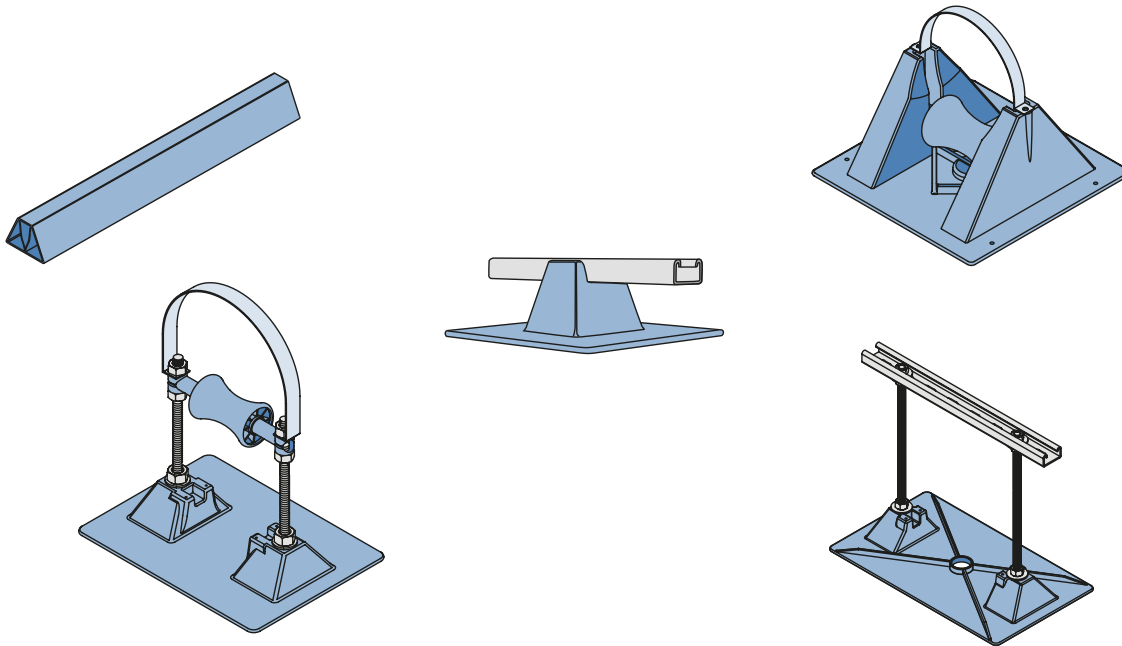
3.03 CLEANUP

- A. Upon completion of this section of work, remove all protective wraps and debris. Repair any damage due to installation of this section of work.

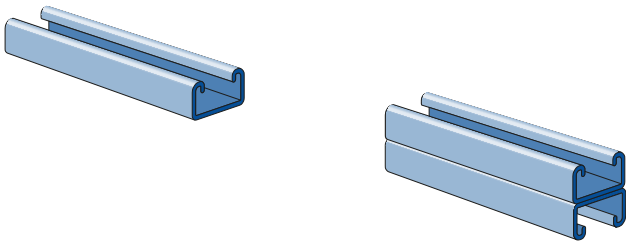
3.04 PROTECTION

- A. During installation, it shall be the responsibility of the installer to protect this work from damage.
- B. Upon completion of this scope of work, it shall become the responsibility of the general contractor to protect this work from damage during the remainder of construction on the project and until substantial completion.

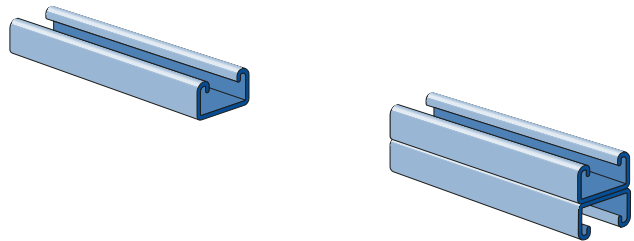
UNIPIER® ROOFTOP PIPE SUPPORT SYSTEM



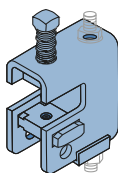
NEW CHANNEL SECTION P4520/P4521 (1⁵/₈" x 1³/₁₆")



NEW CHANNEL SECTION P4400/P4401 (1⁵/₈" x 1")

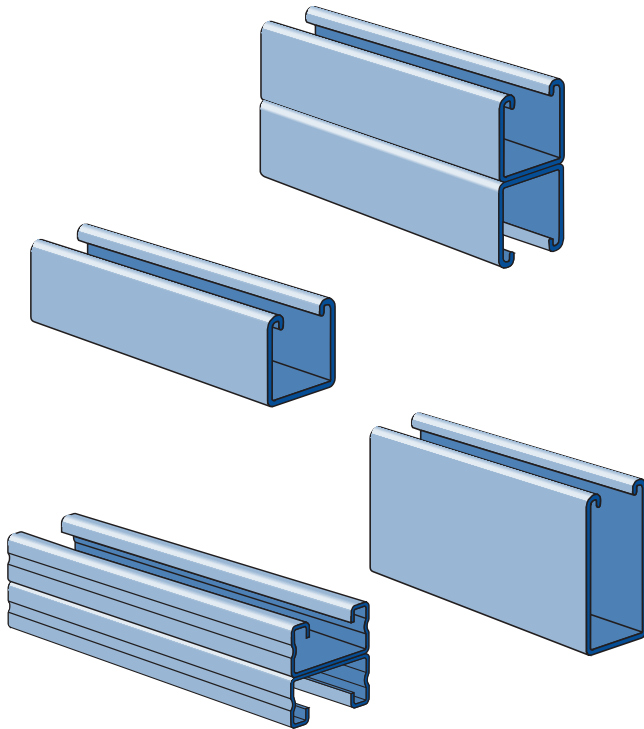


NEW BEAM CLAMP P1640





1⁵/₈" CHANNEL



| | |
|---|---------|
| Channel Selection Chart | 23 |
| P1000 (12 Gauge) | 24 - 29 |
| P1100 (14 Gauge) | 30 - 32 |
| P2000 (16 Gauge) | 33 - 35 |
| P3000 (12 Gauge) | 36 - 38 |
| P3300 (12 Gauge) | 39 - 41 |
| P4000 (16 Gauge) | 42 - 44 |
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| P4400 (12 Gauge) | 48 - 50 |
| P4520 (12 Gauge) | 51 - 53 |
| P5000 (12 Gauge) | 54 - 56 |
| P5500 (12 Gauge) | 57 - 59 |
| Closure Strips | 60 |
| End Caps and Frame Caps | 61 |
| Lateral Bracing Load Reduction Chart & Bearing Loads..... | 62 |

MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel.

All spot-welded combination members, except P1001T, are welded 3" (76 mm) maximum on center.

STEEL: PLAIN

12 Ga. (2.7 mm), 14 Ga.(1.9 mm) and
16 Ga. (1.5 mm) ASTM A1011 SS GR 33

STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
16 Ga. (1.5mm) ASTM A653 GR 33

For other materials, see Special Metals or Fiberglass sections.

FINISHES

All channels are available in:

- Perma Green III (GR)
- Pre-galvanized (PG), conforming to ASTM A653 G90
- Hot-dipped galvanized (HG), conforming to ASTM A123
- Plain (PL)
- Unistrut Defender™ (DF), conforming to ASTM A1046

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in millimeters and rounded to one decimal place.

STANDARD LENGTHS

Standard lengths are 10 feet (3.05m) and 20 feet (6.10m). Tolerances are ±1/8" (3 mm). Special lengths are available for a small cutting charge with a tolerance of ±1/8" (3 mm).

CURVED CHANNEL

Contact your local Unistrut Service Center or Unistrut Corporation for more information.

LOAD DATA

All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD. Loads are based on 33 ksi steel cold formed to 42 ksi.

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



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

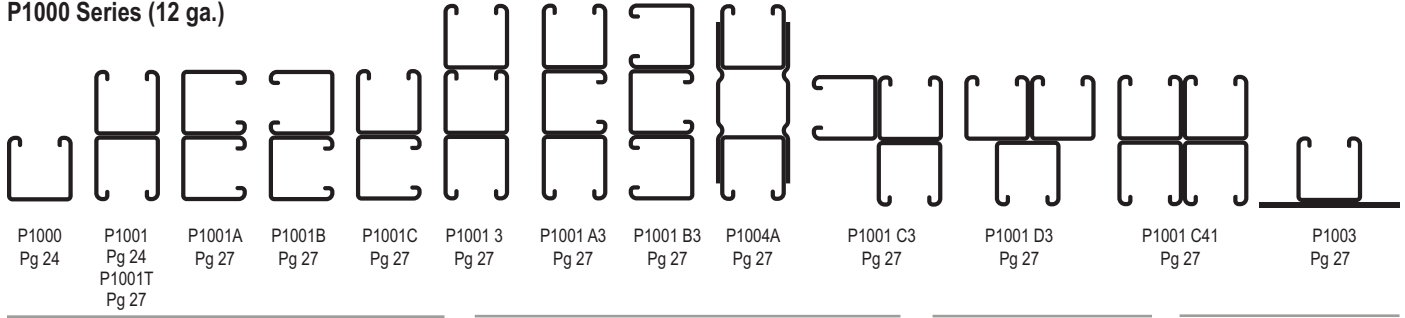
Electrical Fittings

Concrete Inserts

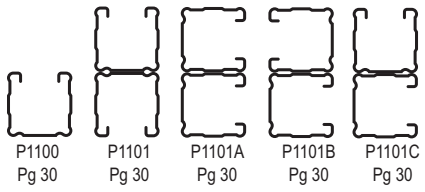
Solar

Unipier®

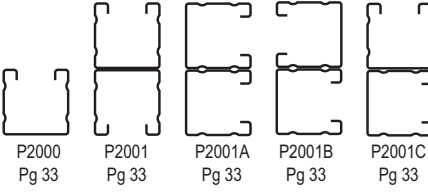
P1000 Series (12 ga.)



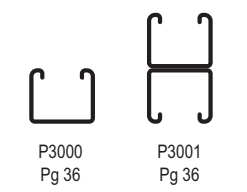
P1100 Series (14 ga.)



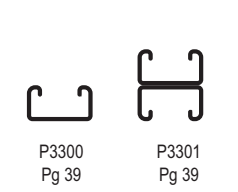
P2000 Series (16 ga.)



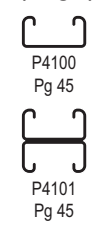
P3000 Series (12 ga.)



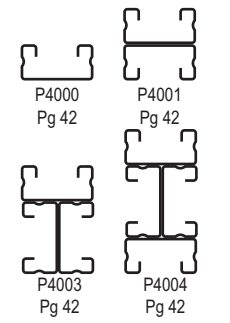
P3300 Series (12 ga.)



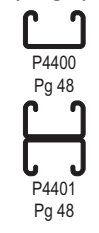
P4100 Series (14 ga.)



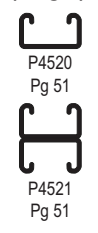
P4000 Series (16 ga.)



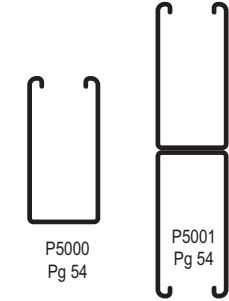
P4400 Series (12 ga.)



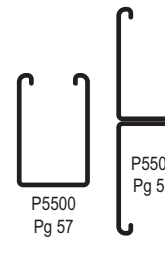
P4520 Series (12 ga.)



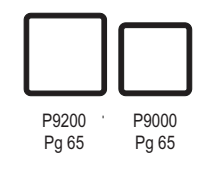
P5000 Series (12 ga.)



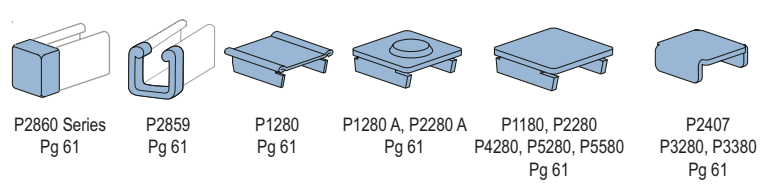
P5500 Series (12 ga.)



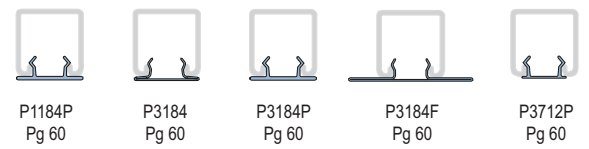
P9000 Series (12 ga.) Telestrut Channel



End Caps and Frame Caps

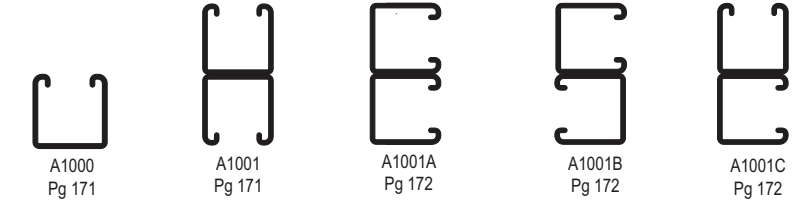


1 5/8" Channel Closure Strips

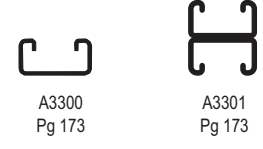


Alternate Framing Systems

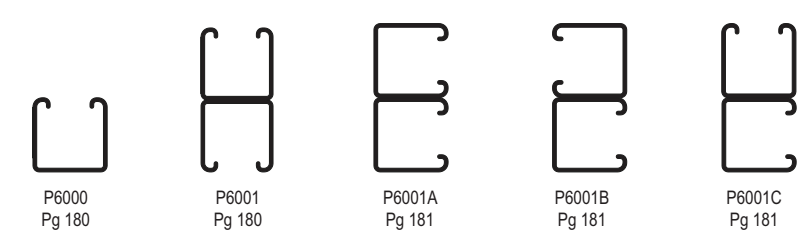
A1000 Series (14 gauge) – 1 1/4" Channel



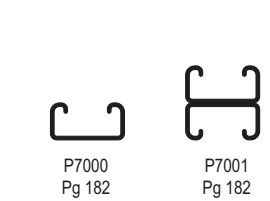
A3300 Series (14 gauge) 1 1/4" Channel



P6000 Series (19 gauge) – 1 3/16" Channel



P7000 Series (19 gauge) 1 3/16" Channel



CHANNEL SELECTION CHART

| Channel | Channel Dimensions | | Material & Thickness | | | Hole Pattern Styles | | | | | | |
|---------|--------------------|-------------------|----------------------|-----------------------------|------------------|---------------------|---|----|------------|---|---|---|
| | | | Steel gauge | Stainless Steel gauge | Alum. In (mm) | | | | | | | |
| | Width In (mm) | Height In (mm) | | | | HS | T | WT | Steel Only | | | |
| P1000 | 1½ (41.3) | 1½ (41.3) | 12 ga | 12 ga | 0.109 (2.8) | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| P1100 | 1½ (41.3) | 1½ (41.3) | 14 ga | 14 ga | — | ■ | ■ | ■ | ■ | ■ | - | - |
| P2000 | 1½ (41.3) | 1½ (41.3) | 16 ga | — | — | ■ | ■ | ■ | ■ | ■ | - | - |
| P3000 | 1½ (41.3) | 1¾ (34.9) | 12 ga | — | — | ■ | ■ | ■ | ■ | ■ | - | - |
| P3300 | 1½ (41.3) | 7⁄8 (22.2) | 12 ga | 12 ga | — | ■ | ■ | ■ | - | ■ | - | - |
| P4000 | 1½ (41.3) | 1⅜ (20.6) | 16 ga | 16 ga | 0.078 (2.0) | ■ | ■ | ■ | - | ■ | - | - |
| P4100 | 1½ (41.3) | 1⅜ (20.6) | 14 ga | — | — | ■ | ■ | ■ | - | ■ | - | - |
| P4400 | 1½ (41.3) | 1 (25.4) | 12 ga | — | — | ■ | ■ | ■ | - | ■ | - | - |
| P4520 | 1½ (41.3) | 1⅜ (20.6) | 12 ga | — | — | ■ | ■ | ■ | - | ■ | - | - |
| P5000 | 1½ (41.3) | 3¼ (82.6) | 12 ga | 12 ga | — | ■ | ■ | ■ | ■ | ■ | - | - |
| P5500 | 1½ (41.3) | 2⅞ (61.9) | 12 ga | — | 0.109 (2.8) | ■ | ■ | ■ | ■ | ■ | - | - |

CHANNELS & COMBINATIONS IN DESCENDING ORDER OF STRENGTH

| Channel | Area In² (cm²) | Weight lbs/ft (kg/m) | I In⁴ (cm⁴) | s In³ (cm³) | Allow. Moment In-lbs (N·m) |
|----------|-------------------|-------------------------|----------------|----------------|-------------------------------|
| P5001 | 1.793 11.57 | 6.10 9.1 | 6.227 259.2 | 1.916 31.4 | 48,180 5,440 |
| P1004A | 1.965 12.68 | 6.68 9.9 | 4.068 169.3 | 1.669 27.4 | 41,980 4,740 |
| P5501 | 1.452 9.37 | 4.94 7.3 | 2.805 116.8 | 1.151 18.9 | 28,940 3,270 |
| P1001C41 | 2.221 14.33 | 7.55 11.2 | 1.856 77.2 | 1.142 18.7 | 28,720 3,250 |
| P5000 | 0.897 5.78 | 3.05 4.5 | 1.098 45.7 | 0.627 10.3 | 15,770 1,780 |
| P1001 | 1.111 7.16 | 3.78 5.6 | 0.928 38.6 | 0.571 9.4 | 14,360 1,620 |
| P1101 | 0.835 5.39 | 2.84 4.2 | 0.733 30.5 | 0.451 7.4 | 11,340 1,280 |
| P3001 | 1.000 6.45 | 3.40 5.1 | 0.591 24.6 | 0.430 7.0 | 10,810 1,220 |
| P5500 | 0.726 4.68 | 2.47 3.7 | 0.522 21.7 | 0.390 6.4 | 9,820 1,110 |
| P2001 | 0.684 4.41 | 2.32 3.5 | 0.618 25.7 | 0.381 6.2 | 9,570 1,080 |
| P9200 | 0.489 3.16 | 2.23 3.3 | 0.279 11.6 | 0.297 4.9 | 7,480 850 |
| P4401 | 0.849 5.48 | 5.77 8.5 | 0.26 10.6 | 0.26 4.2 | 6,410 725 |
| A1001 | 0.609 3.93 | 2.07 3.1 | 0.302 12.6 | 0.242 4.0 | 6,070 690 |
| P9000 | 0.387 2.50 | 1.88 2.8 | 0.166 6.9 | 0.205 3.4 | 5,150 580 |
| P1000 | 0.555 3.58 | 1.89 2.8 | 0.185 7.7 | 0.202 3.3 | 5,070 570 |
| P3301 | 0.790 5.10 | 2.69 4.0 | 0.176 7.3 | 0.201 3.3 | 5,060 570 |
| P4521 | 0.77 4.97 | 2.62 3.9 | 0.15 6.1 | 0.18 2.9 | 4,538 513 |

| Channel | Area In² (cm²) | Weight lbs/ft (kg/m) | I In⁴ (cm⁴) | s In³ (cm³) | Allow. Moment In-lbs (N·m) |
|---------|-------------------|-------------------------|----------------|----------------|-------------------------------|
| P1100 | 0.418 2.69 | 1.42 2.1 | 0.145 6.0 | 0.162 2.6 | 4,060 460 |
| P3000 | 0.500 3.23 | 1.70 2.5 | 0.120 5.0 | 0.153 2.5 | 3,850 430 |
| P4101 | 0.579 3.74 | 1.97 2.9 | 0.117 4.9 | 0.143 2.4 | 3,610 410 |
| P2000 | 0.342 2.21 | 1.16 1.7 | 0.125 5.2 | 0.140 2.3 | 3,520 400 |
| P4001 | 0.478 3.14 | 1.66 2.5 | 0.104 4.3 | 0.128 2.1 | 3,210 360 |
| A3301 | 0.459 2.96 | 1.56 2.3 | 0.077 3.2 | 0.103 1.7 | 2,590 290 |
| P4400 | 0.424 2.74 | 2.89 4.3 | 0.053 2.2 | 0.092 1.5 | 2,300 260 |
| A1000 | 0.305 1.96 | 1.04 1.5 | 0.061 2.5 | 0.086 1.4 | 2,170 250 |
| P3300 | 0.395 2.55 | 1.34 2.0 | 0.037 1.5 | 0.072 1.2 | 1,800 200 |
| P4520 | 0.384 2.48 | 1.31 1.9 | 0.031 1.3 | 0.064 1.0 | 1,615 183 |
| A4001 | 0.264 1.70 | 0.90 1.3 | 0.037 1.5 | 0.058 1.0 | 1,470 170 |
| P6001 | 0.213 1.38 | 0.73 1.1 | 0.045 1.9 | 0.055 0.9 | 1,400 160 |
| P4100 | 0.290 1.87 | 0.98 1.5 | 0.026 1.1 | 0.054 0.9 | 1,360 150 |
| P4000 | 0.244 1.57 | 0.83 1.2 | 0.023 0.9 | 0.049 0.8 | 1,230 140 |
| A3300 | 0.230 1.48 | 0.78 1.2 | 0.017 0.7 | 0.038 0.6 | 950 110 |
| P6000 | 0.107 0.69 | 0.36 0.5 | 0.009 0.4 | 0.020 0.3 | 510 60 |
| P7001 | 0.148 0.96 | 0.50 0.8 | 0.007 0.3 | 0.018 0.3 | 460 50 |
| P7000 | 0.074 0.48 | 0.25 0.4 | 0.002 0.1 | 0.007 0.1 | 170 20 |

Combinations not shown in catalog are available on special order. Consult factory for more details.



1 5/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

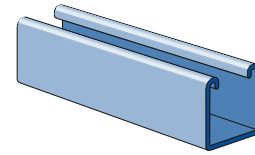
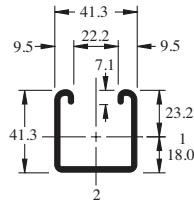
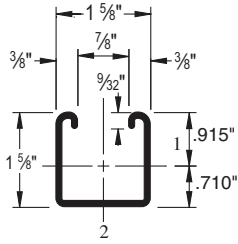
Concrete Inserts

Solar

Unipier®

P1000®

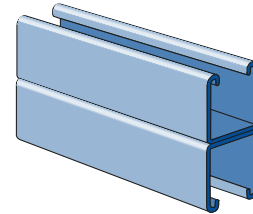
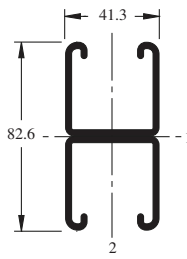
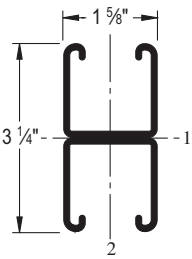
DF GR HG PG PL



Wt/100 Ft: 189 Lbs (281 kg/100 m)
 Allowable Moment 5,070 In-Lbs (570 N*m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001

DF GR HG PG PL



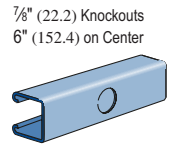
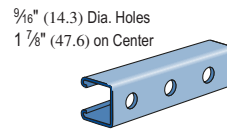
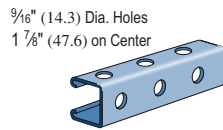
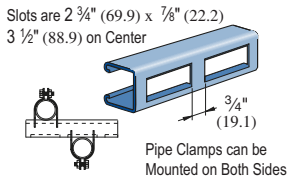
Wt/100 Ft: 378 Lbs (562 kg/100 m)
 Allowable Moment 14,360 In-Lbs (1,620 N*m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1000 DS

P1000 H3 GR HG PG PL

P1000 HS GR HG PG PL

P1000 KO GR PG



Wt/100 Ft: 173 Lbs (257 kg/100 m)

Wt/100 Ft: 175 Lbs (260 kg/100 m)

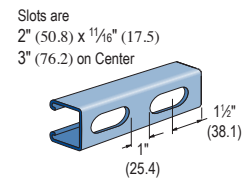
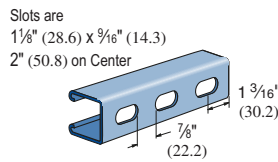
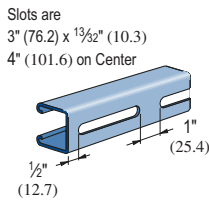
Wt/100 Ft: 190 Lbs (283 kg/100 m)

Wt/100 Ft: 185 Lbs (275 kg/100 m)

P1000 SL GR HG PG PL

P1000 T DF GR HG PG PL

P1000 WT DF GR HG PG PL



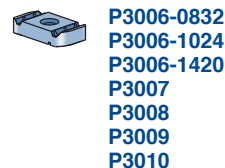
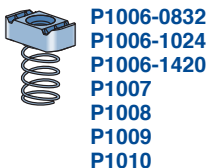
Wt/100 Ft: 185 Lbs (275 kg/100 m)

Wt/100 Ft: 185 Lbs (275 kg/100 m)

Wt/100 Ft: 185 Lbs (275 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



Channel Finishes: DF, PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'

P1000 - BEAM LOADING

| 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 |
| 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 |

P1001 - BEAM LOADING

| 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 |
| 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 |

P1000 - COLUMN LOADING

| 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 | ** | ** |

P1001 - COLUMN LOADING

| 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 | ** | ** |

P1000/P1001 - ELEMENTS OF SECTION

| Parameter | P1000 | | P1001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.555 | In ² | 1.111 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.185 | In ⁴ | 0.928 | In ⁴ |
| Section Modulus (S) | 0.202 | In ³ | 0.571 | In ³ |
| Radius of Gyration (r) | 0.577 | In | 0.914 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.236 | In ⁴ | 0.471 | In ⁴ |
| Section Modulus (S) | 0.290 | In ³ | 0.580 | In ³ |
| Radius of Gyration (r) | 0.651 | In | 0.651 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|------------------|-----|------------------|-----|
| "KO" Series..... | 95% | "T" Series..... | 85% |
| "HS" Series..... | 90% | "SL" Series..... | 85% |
| "H3" Series..... | 90% | "DS" Series..... | 70% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



P1000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 7.6 | 1 | 7.6 | 7.6 | 7.6 |
| 750 | 6.1 | 2 | 6.1 | 6.1 | 5.9 |
| 1,000 | 4.6 | 4 | 4.6 | 4.6 | 3.3 |
| 1,250 | 3.6 | 6 | 3.6 | 3.2 | 2.1 |
| 1,500 | 3.1 | 9 | 3.0 | 2.2 | 1.5 |
| 1,750 | 2.6 | 12 | 2.2 | 1.6 | 1.1 |
| 2,000 | 2.3 | 15 | 1.6 | 1.2 | 0.8 |
| 2,500 | 1.8 | 24 | 1.1 | 0.8 | 0.5 |
| 3,000 | 1.5 | 34 | 0.8 | 0.5 | 0.4 |
| 3,500 | 1.3 | 46 | 0.5 | 0.4 | 0.3 |
| 4,000 | 1.2 | 62 | 0.4 | 0.3 | 0.2 |
| 4,500 | 1.0 | 78 | 0.3 | 0.3 | 0.2 |
| 5,000 | 0.9 | 97 | 0.3 | 0.2 | NR |
| 6,000 | 0.8 | 136 | 0.2 | NR | NR |

P1001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 15.6 * | 1 | 15.6 * | 15.6 * | 15.6 * |
| 750 | 15.6 * | 1 | 15.6 * | 15.6 * | 15.6 * |
| 1,000 | 13.0 | 2 | 13.0 | 13.0 | 13.0 |
| 1,250 | 10.4 | 3 | 10.4 | 10.4 | 10.4 |
| 1,500 | 8.7 | 5 | 8.7 | 8.7 | 7.4 |
| 1,750 | 7.4 | 7 | 7.4 | 7.4 | 5.5 |
| 2,000 | 6.5 | 9 | 6.5 | 6.3 | 4.2 |
| 2,500 | 5.2 | 13 | 5.2 | 4.0 | 2.7 |
| 3,000 | 4.3 | 19 | 3.7 | 2.8 | 1.9 |
| 3,500 | 3.7 | 26 | 2.8 | 2.0 | 1.4 |
| 4,000 | 3.2 | 34 | 2.1 | 1.6 | 1.1 |
| 4,500 | 2.9 | 44 | 1.6 | 1.2 | 0.8 |
| 5,000 | 2.6 | 53 | 1.3 | 1.0 | 0.7 |
| 6,000 | 2.2 | 78 | 0.9 | 0.7 | 0.4 |

P1000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|---|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 15.8 | 48.0 | 44.3 | 39.4 | 34.8 |
| 750 | 15.2 | 44.0 | 39.4 | 33.8 | 28.9 |
| 1,000 | 13.7 | 37.5 | 32.0 | 26.1 | 21.3 |
| 1,250 | 12.1 | 31.6 | 26.1 | 20.3 | 16.5 |
| 1,500 | 10.7 | 26.7 | 21.3 | 16.5 | 13.4 |
| 1,750 | 9.6 | 22.7 | 17.8 | 13.8 | 11.3 |
| 2,000 | 8.7 | 19.3 | 15.3 | 11.9 | 9.6 |
| 2,250 | 7.9 | 16.9 | 13.4 | 10.4 | 8.2 |
| 2,500 | 7.2 | 15.0 | 11.9 | 9.1 | ** |
| 2,750 | 6.7 | 13.5 | 10.6 | 8.1 | ** |

P1001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|---|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 28.6 | 108.2 | 105.3 | 101.3 | 97.4 |
| 750 | 28.3 | 105.0 | 101.3 | 96.5 | 92.2 |
| 1,000 | 27.8 | 99.6 | 95.0 | 89.7 | 83.9 |
| 1,250 | 27.3 | 94.7 | 89.7 | 81.7 | 70.1 |
| 1,500 | 26.8 | 90.3 | 83.9 | 70.1 | 56.4 |
| 1,750 | 25.4 | 86.7 | 74.8 | 58.6 | 43.5 |
| 2,000 | 23.9 | 79.4 | 65.5 | 47.7 | 33.3 |
| 2,250 | 22.2 | 71.9 | 56.4 | 37.9 | 26.3 |
| 2,500 | 20.4 | 64.4 | 47.7 | 30.7 | 21.3 |
| 2,750 | 18.5 | 56.9 | 39.6 | 25.4 | 17.6 |

P1000/P1001 - ELEMENTS OF SECTION (METRIC)

| Parameter | P1000 | P1001 |
|------------------------|----------------------|-----------------------|
| Area of Section | 3.58 cm ² | 7.16 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 7.68 cm ⁴ | 38.62 cm ⁴ |
| Section Modulus (S) | 3.30 cm ³ | 9.36 cm ³ |
| Radius of Gyration (r) | 1.46 cm | 2.32 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 9.80 cm ⁴ | 19.60 cm ⁴ |
| Section Modulus (S) | 4.75 cm ³ | 9.50 cm ³ |
| Radius of Gyration (r) | 1.65 cm | 1.65 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

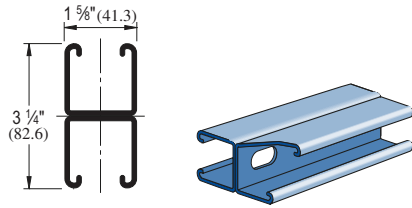
NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "H3" Series..... | 90% | "DS" Series..... | 70% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

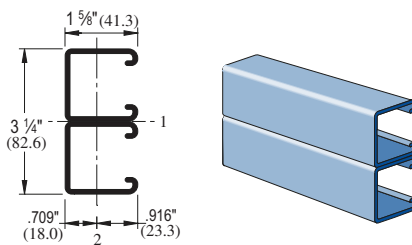
P1001 T

DF GR PG



Wt/100 Ft: 321 Lbs (478 kg/100 m)
 Allowable Moment 12,200 In-Lbs (1,378 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

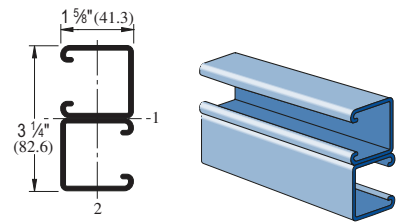
P1001 A



Wt/100 Ft: 378 Lbs (562 kg/100 m)
 Allowable Moment 18,640 In-Lbs (2,110 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001 B

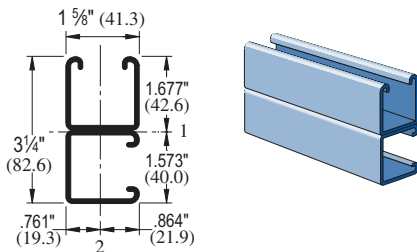
GR PG



Wt/100 Ft: 378 Lbs (562 kg/100 m)
 Allowable Moment 18,640 In-Lbs (2,110 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

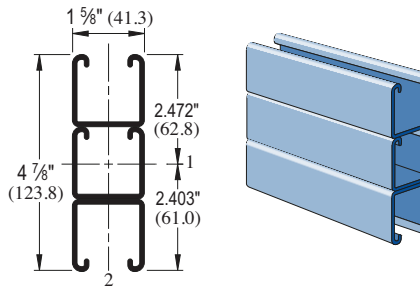
P1001 C

GR PG



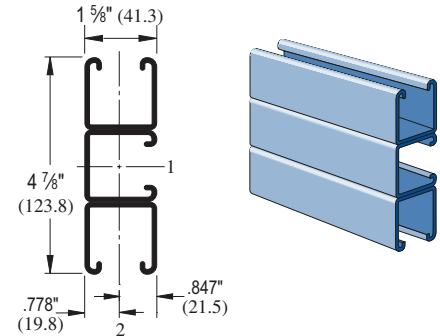
Wt/100 Ft: 378 Lbs (562 kg/100 m)
 Allowable Moment 15,950 In-Lbs (1,800 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001 3



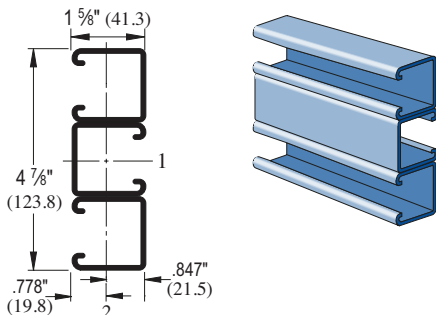
Wt/100 Ft: 566 Lbs (843 kg/100 m)
 Allowable Moment 31,840 In-Lbs (3,600 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001 A3



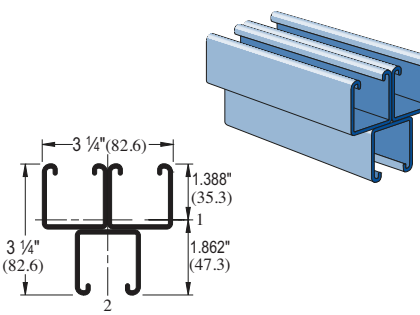
Wt/100 Ft: 566 Lbs (843 kg/100 m)
 Allowable Moment 32,770 In-Lbs (3,700 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001 B3



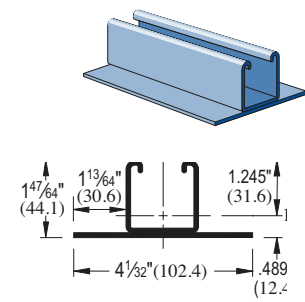
Wt/100 Ft: 566 Lbs (843 kg/100 m)
 Allowable Moment 37,550 In-Lbs (4,240 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001 D3



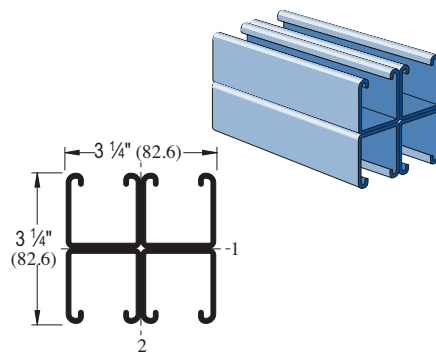
Wt/100 Ft: 566 Lbs (843 kg/100 m)
 Allowable Moment 17,550 In-Lbs (1,980 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1003



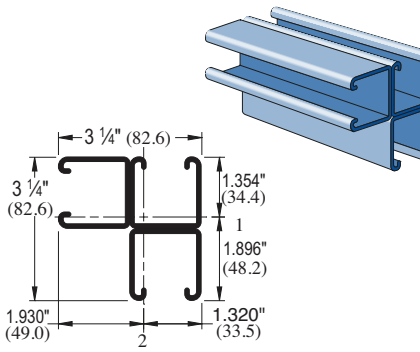
Wt/100 Ft: 333 Lbs (495 kg/100 m)
 Allowable Moment 6,240 In-Lbs (700 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001 C41



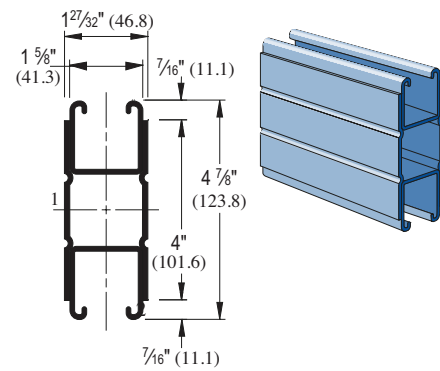
Wt/100 Ft: 755 Lbs (1,124 kg/100 m)
 Allowable Moment 28,720 In-Lbs (3,250 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1001 C3



Wt/100 Ft: 566 Lbs (843 kg/100 m)
 Allowable Moment 18,680 In-Lbs (2,110 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P1004 A



Wt/100 Ft: 668 Lbs (994 kg/100 m)
 Allowable Moment 41,970 In-Lbs (4,740 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

Channel Finishes: DF, PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

Solar

Unipier®

P1001 C41 - BEAM LOADING

| 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 |
| 24 | 7,040* | 0.02 | 7,040* | 7,040* | 7,040* |
| 36 | 6,380 | 0.07 | 6,380 | 6,380 | 6,380 |
| 48 | 4,790 | 0.13 | 4,790 | 4,790 | 4,790 |
| 60 | 3,830 | 0.20 | 3,830 | 3,830 | 3,240 |
| 72 | 3,190 | 0.28 | 3,190 | 3,190 | 2,250 |
| 84 | 2,740 | 0.39 | 2,740 | 2,480 | 1,660 |
| 96 | 2,390 | 0.50 | 2,390 | 1,900 | 1,270 |
| 108 | 2,130 | 0.64 | 2,000 | 1,500 | 1,000 |
| 120 | 1,910 | 0.78 | 1,620 | 1,220 | 810 |
| 144 | 1,600 | 1.14 | 1,130 | 840 | 560 |
| 168 | 1,370 | 1.55 | 830 | 620 | 410 |
| 192 | 1,200 | 2.02 | 630 | 480 | 320 |
| 216 | 1,060 | 2.54 | 500 | 380 | 250 |
| 240 | 960 | 3.16 | 410 | 300 | 200 |

P1004 A - BEAM LOADING

| 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 |
| 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 |

P1001 C41 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 12,690 | 46,920 | 44,980 | 42,360 | 39,890 |
| 36 | 12,250 | 42,680 | 39,890 | 36,660 | 34,050 |
| 48 | 11,820 | 38,740 | 35,720 | 32,640 | 30,430 |
| 60 | 11,470 | 35,500 | 32,640 | 29,980 | 28,220 |
| 72 | 11,180 | 32,970 | 30,430 | 28,220 | 26,820 |
| 84 | 10,900 | 31,040 | 28,840 | 27,010 | 24,870 |
| 96 | 10,580 | 29,570 | 27,680 | 26,170 | 19,840 |
| 108 | 10,310 | 28,440 | 26,820 | 22,310 | 15,670 |
| 120 | 10,070 | 27,560 | 26,170 | 18,280 | 12,700 |
| 144 | 8,740 | 26,320 | 19,840 | 12,700 | 8,820 |
| 168 | 7,360 | 21,890 | 14,570 | 9,330 | ** |

P1004 A - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P1001 C41/ P1004 A - ELEMENTS OF SECTION

| Parameter | P1001 C41 | P1004 A |
|------------------------|-----------------------|-----------------------|
| Area of Section | 2.221 In ² | 1.965 In ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 1.856 In ⁴ | 4.068 In ⁴ |
| Section Modulus (S) | 1.142 In ³ | 1.669 In ³ |
| Radius of Gyration (r) | 0.914 In | 1.439 In |
| Axis 2-2 | | |
| Moment of Inertia (I) | 2.408 In ⁴ | 1.092 In ⁴ |
| Section Modulus (S) | 1.482 In ³ | 1.190 In ³ |
| Radius of Gyration (r) | 1.041 In | 0.745 In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P1001 C41 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 31.3 * | 1 | 31.3 * | 31.3 * | 31.3 * |
| 750 | 31.3 * | 1 | 31.3 * | 31.3 * | 31.3 * |
| 1,000 | 26.0 | 2 | 26.0 | 26.0 | 26.0 |
| 1,250 | 20.8 | 3 | 20.8 | 20.8 | 20.8 |
| 1,500 | 17.3 | 5 | 17.3 | 17.3 | 14.9 |
| 1,750 | 14.8 | 7 | 14.8 | 14.8 | 10.9 |
| 2,000 | 13.0 | 9 | 13.0 | 12.6 | 8.4 |
| 2,500 | 10.4 | 13 | 10.4 | 8.1 | 5.4 |
| 3,000 | 8.7 | 19 | 7.4 | 5.6 | 3.7 |
| 3,500 | 7.4 | 26 | 5.5 | 4.1 | 2.8 |
| 4,000 | 6.5 | 34 | 4.2 | 3.2 | 2.1 |
| 4,500 | 5.8 | 44 | 3.3 | 2.5 | 1.6 |
| 5,000 | 5.2 | 54 | 2.7 | 2.0 | 1.3 |
| 6,000 | 4.3 | 77 | 1.9 | 1.4 | 0.9 |

P1004 A - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|-----------------|----------------|
| | | | Span/180 kN | Span/240 kgN | Span/360 kN |
| 600 | 40.5 * | 1 | 40.5 * | 40.5 * | 40.5 * |
| 750 | 40.5 * | 1 | 40.5 * | 40.5 * | 40.5 * |
| 1,000 | 37.9 | 2 | 37.9 | 37.9 | 37.9 |
| 1,250 | 30.3 | 3 | 30.3 | 30.3 | 30.3 |
| 1,500 | 25.3 | 4 | 25.3 | 25.3 | 25.3 |
| 1,750 | 21.7 | 6 | 21.7 | 21.7 | 21.7 |
| 2,000 | 18.9 | 9 | 18.9 | 18.9 | 18.4 |
| 2,500 | 15.2 | 13 | 15.2 | 15.2 | 11.7 |
| 3,000 | 12.6 | 18 | 12.6 | 12.2 | 8.2 |
| 3,500 | 10.9 | 23 | 10.9 | 9.0 | 6.0 |
| 4,000 | 9.5 | 29 | 9.2 | 6.9 | 4.6 |
| 4,500 | 8.5 | 36 | 7.2 | 5.4 | 3.6 |
| 5,000 | 7.6 | 52 | 5.9 | 4.4 | 2.9 |
| 6,000 | 6.3 | 77 | 4.1 | 3.1 | 2.0 |

P1001 C41 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 56.5 | 209.3 | 200.8 | 189.3 | 178.4 |
| 750 | 55.6 | 200.1 | 189.3 | 175.8 | 164.1 |
| 1,000 | 53.9 | 184.7 | 171.7 | 157.3 | 146.1 |
| 1,250 | 52.4 | 170.7 | 157.3 | 143.8 | 134.1 |
| 1,500 | 51.1 | 158.9 | 146.1 | 134.1 | 126.1 |
| 1,750 | 50.0 | 149.3 | 137.6 | 127.3 | 120.7 |
| 2,000 | 49.2 | 141.5 | 131.1 | 122.3 | 116.8 |
| 2,250 | 47.9 | 135.4 | 126.1 | 118.6 | 101.9 |
| 2,500 | 46.8 | 130.4 | 122.3 | 114.5 | 83.9 |
| 2,750 | 45.9 | 126.4 | 119.2 | 98.8 | 69.4 |

P1004 A - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 50.9 | 164.6 | 151.8 | 136.5 | 123.8 |
| 750 | 49.1 | 150.8 | 136.5 | 121.1 | 109.5 |
| 1,000 | 46.3 | 130.9 | 116.9 | 103.4 | 94.3 |
| 1,250 | 43.5 | 115.8 | 103.4 | 92.6 | 85.8 |
| 1,500 | 40.9 | 104.8 | 94.3 | 85.8 | 80.6 |
| 1,750 | 38.9 | 96.8 | 88.1 | 81.3 | 77.0 |
| 2,000 | 37.1 | 91.0 | 83.7 | 78.1 | 74.8 |
| 2,250 | 35.7 | 86.6 | 80.6 | 75.8 | 60.9 |
| 2,500 | 34.3 | 83.3 | 78.1 | 71.1 | 49.4 |
| 2,750 | 33.1 | 80.7 | 76.2 | 58.8 | 40.8 |

P1001 C41/ P1004 A - ELEMENTS OF SECTION (METRIC)

| Parameter | P1001 C41 | P1004 A |
|------------------------|------------------------|------------------------|
| Area of Section | 14.33 cm ² | 12.68 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 77.24 cm ⁴ | 169.33 cm ⁴ |
| Section Modulus (S) | 18.71 cm ³ | 27.35 cm ³ |
| Radius of Gyration (r) | 2.32 cm | 3.66 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 100.24 cm ⁴ | 45.44 cm ⁴ |
| Section Modulus (S) | 24.29 cm ³ | 19.50 cm ³ |
| Radius of Gyration (r) | 2.64 cm | 1.89 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:
"KO" Series95% **"T" Series85%**
"HS" Series90% **"SL" Series85%**
"WT" Series85%
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



1 5/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

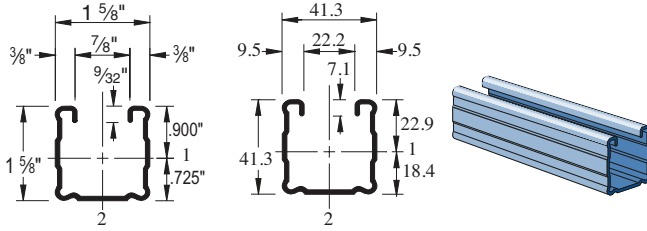
Concrete Inserts

Solar

Unipier®

P1100

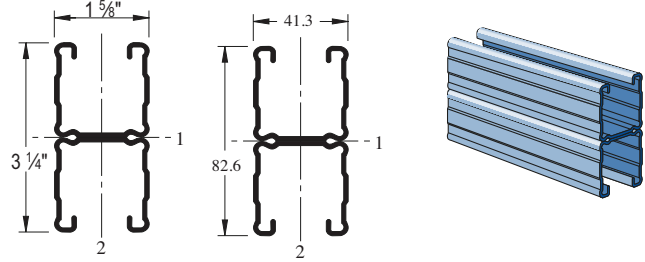
GR PG



Wt/100 Ft: 142 Lbs (211 kg/100 m)
 Allowable Moment 4,060 In-Lbs (460 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

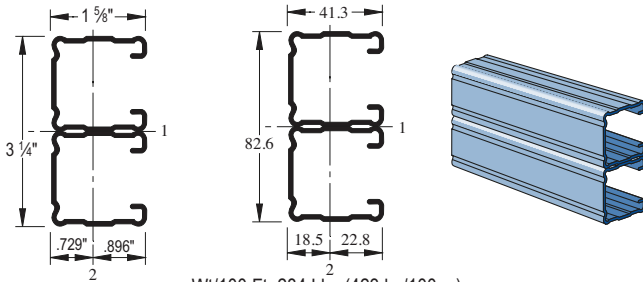
P1101

GR PG



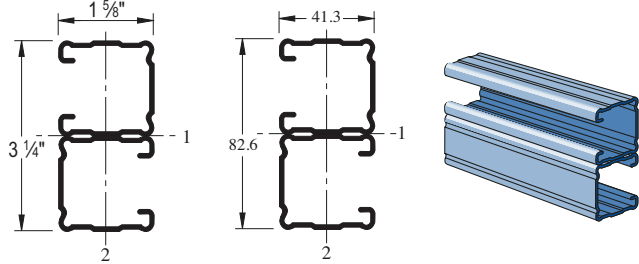
Wt/100 Ft: 284 Lbs (423 kg/100 m)
 Allowable Moment 11,340 In-Lbs (1,280 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

P1101 A



Wt/100 Ft: 284 Lbs (423 kg/100 m)
 Allowable Moment 14,000 In-Lbs (1,580 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

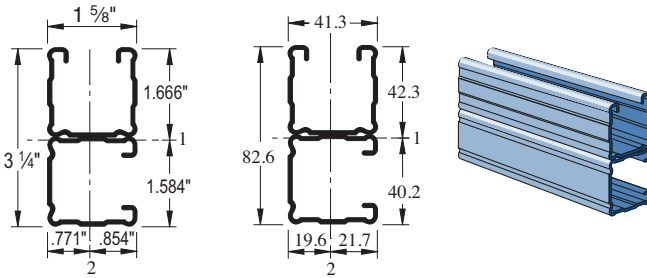
P1101 B



Wt/100 Ft: 284 Lbs (423 kg/100 m)
 Allowable Moment 14,000 In-Lbs (1,580 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

P1101 C

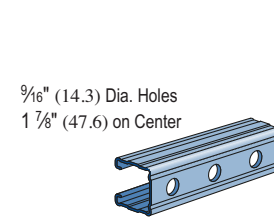
GR PG



Wt/100 Ft: 284 Lbs (423 kg/100 m)
 Allowable Moment 12,330 In-Lbs (1,390 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

P1100 HS

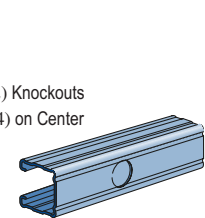
GR PG



Wt/100 Ft: 136 Lbs (202 kg/100 m)

P1100 KO

GR PG

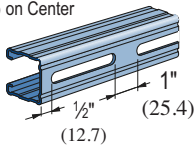


Wt/100 Ft: 140 Lbs (208 kg/100 m)

P1100 SL

GR PG

Slots are
 3" (76.2) x 1 1/2" (10.3)
 4" (101.6) on Center

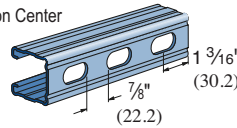


Wt/100 Ft: 136 Lbs (202 kg/100 m)

P1100 T

GR PG

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

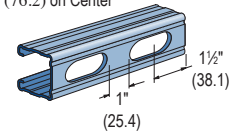


Wt/100 Ft: 136 Lbs (202 kg/100 m)

P1100 WT

DF GR HG PG PL

Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 136 Lbs (202 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74

- P1006-0832
- P1006-1024
- P1006-1420
- P1007
- P1008
- P1009
- P1010

- P1008T
- P1006T1420
- P1010T

- P1024
- P1012S
- P1023S

- P1012
- P1023
- P1024S

- P3006-0832
- P3006-1024
- P3006-1420
- P3007
- P3008
- P3009
- P3010

- P3016-0632
- P3016-0832
- P3016-1024
- P3016-1420

Channel Finishes: DF, PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'

P1100 - BEAM LOADING

| 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 |
| 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 |

P1101 - BEAM LOADING

| 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 |
| 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 |

P1100 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P1101 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P1100/P1101 - ELEMENTS OF SECTION

| Parameter | P1100 | | P1101 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.418 | In ² | 0.835 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.145 | In ⁴ | 0.733 | In ⁴ |
| Section Modulus (S) | 0.162 | In ³ | 0.451 | In ³ |
| Radius of Gyration (r) | 0.589 | In | 0.937 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.176 | In ⁴ | 0.353 | In ⁴ |
| Section Modulus (S) | 0.217 | In ³ | 0.434 | In ³ |
| Radius of Gyration (r) | 0.650 | In | 0.650 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:
"KO" Series95% **"T" Series85%**
"HS" Series90% **"SL" Series85%**
"WT" Series85%
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P1100 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 6.1 | 1 | 6.1 | 6.1 | 6.1 |
| 750 | 4.9 | 2 | 4.9 | 4.9 | 4.7 |
| 1,000 | 3.7 | 4 | 3.7 | 3.7 | 2.6 |
| 1,250 | 2.9 | 6 | 2.9 | 2.5 | 1.7 |
| 1,500 | 2.4 | 9 | 2.3 | 1.7 | 1.2 |
| 1,750 | 2.1 | 12 | 1.7 | 1.3 | 0.8 |
| 2,000 | 1.8 | 15 | 1.3 | 1.0 | 0.7 |
| 2,500 | 1.5 | 24 | 0.8 | 0.6 | 0.4 |
| 3,000 | 1.2 | 36 | 0.6 | 0.4 | 0.3 |
| 3,500 | 1.1 | 49 | 0.4 | 0.3 | 0.2 |
| 4,000 | 0.9 | 64 | 0.3 | 0.3 | 0.2 |
| 4,500 | 0.8 | 77 | 0.3 | 0.2 | 0.1 |
| 5,000 | 0.8 | 100 | 0.2 | 0.2 | NR |
| 6,000 | 0.6 | 143 | 0.1 | NR | NR |

P1101 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 9.7 * | 0 | 9.7 * | 9.7 * | 9.7 * |
| 750 | 9.7 * | 1 | 9.7 * | 9.7 * | 9.7 * |
| 1,000 | 9.7 * | 2 | 9.7 * | 9.7 * | 9.7 * |
| 1,250 | 8.2 | 3 | 8.2 | 8.2 | 8.2 |
| 1,500 | 6.9 | 5 | 6.9 | 6.9 | 5.9 |
| 1,750 | 5.9 | 7 | 5.9 | 5.9 | 4.3 |
| 2,000 | 5.1 | 9 | 5.1 | 5.0 | 3.3 |
| 2,500 | 4.1 | 13 | 4.1 | 3.2 | 2.1 |
| 3,000 | 3.4 | 19 | 2.9 | 2.2 | 1.5 |
| 3,500 | 2.9 | 26 | 2.2 | 1.6 | 1.1 |
| 4,000 | 2.6 | 35 | 1.6 | 1.2 | 0.8 |
| 4,500 | 2.3 | 43 | 1.3 | 1.0 | 0.7 |
| 5,000 | 2.0 | 54 | 1.1 | 0.8 | 0.5 |
| 6,000 | 1.7 | 77 | 0.8 | 0.5 | 0.4 |

P1100 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 12.5 | 35.9 | 32.9 | 28.6 | 24.5 |
| 750 | 11.8 | 32.6 | 28.6 | 23.5 | 19.0 |
| 1,000 | 10.1 | 26.9 | 22.0 | 16.4 | 12.5 |
| 1,250 | 8.5 | 21.6 | 16.4 | 11.8 | 9.3 |
| 1,500 | 7.0 | 17.0 | 12.5 | 9.3 | 7.4 |
| 1,750 | 6.0 | 13.5 | 10.1 | 7.7 | 6.2 |
| 2,000 | 5.2 | 11.2 | 8.6 | 6.5 | 5.3 |
| 2,250 | 4.6 | 9.6 | 7.4 | 5.7 | 4.7 |
| 2,500 | 4.1 | 8.4 | 6.5 | 5.1 | ** |
| 2,750 | 3.7 | 7.5 | 5.9 | 4.5 | ** |

P1101 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 22.3 | 81.4 | 79.0 | 75.4 | 71.7 |
| 750 | 22.0 | 78.7 | 75.4 | 70.7 | 66.1 |
| 1,000 | 21.4 | 73.8 | 69.2 | 63.3 | 58.0 |
| 1,250 | 20.8 | 68.8 | 63.3 | 56.8 | 51.6 |
| 1,500 | 20.0 | 64.0 | 58.0 | 51.6 | 42.3 |
| 1,750 | 19.0 | 59.5 | 53.5 | 44.0 | 32.6 |
| 2,000 | 18.0 | 55.6 | 49.2 | 35.7 | 25.0 |
| 2,250 | 16.6 | 52.3 | 42.3 | 28.4 | 19.7 |
| 2,500 | 15.1 | 48.3 | 35.7 | 23.0 | 16.0 |
| 2,750 | 13.6 | 42.7 | 29.7 | 19.0 | 13.2 |

P1100/P1101 - ELEMENTS OF SECTION (METRIC)

| Parameter | P1100 | | P1101 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 2.69 | cm ² | 5.39 | cm ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 6.03 | cm ⁴ | 30.51 | cm ⁴ |
| Section Modulus (S) | 2.65 | cm ³ | 7.39 | cm ³ |
| Radius of Gyration (r) | 1.50 | cm | 2.38 | cm |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 7.34 | cm ⁴ | 14.69 | cm ⁴ |
| Section Modulus (S) | 3.56 | cm ³ | 7.12 | cm ³ |
| Radius of Gyration (r) | 1.65 | cm | 1.65 | cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

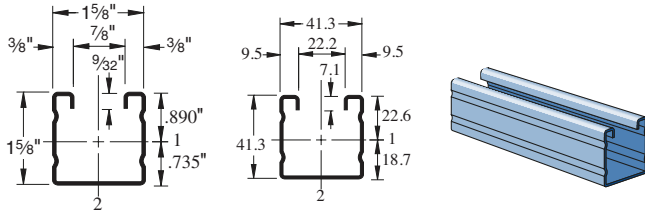
NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P2000

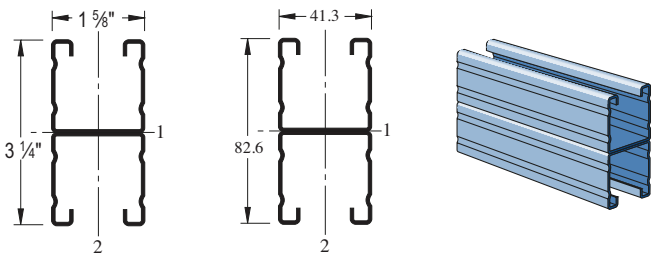
GR PG



Wt/100 Ft: 116 Lbs (173 kg/100 m)
 Allowable Moment 3,520 In-Lbs (400 N•m)
 16 Gauge Nominal Thickness .060" (1.5mm)

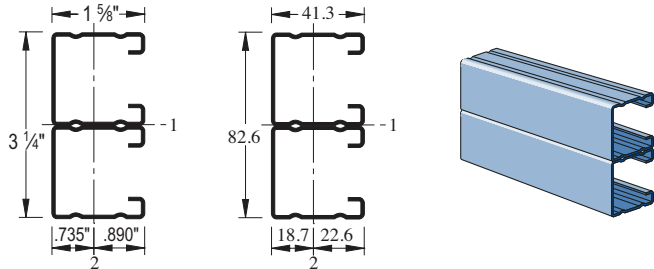
P2001

GR PG



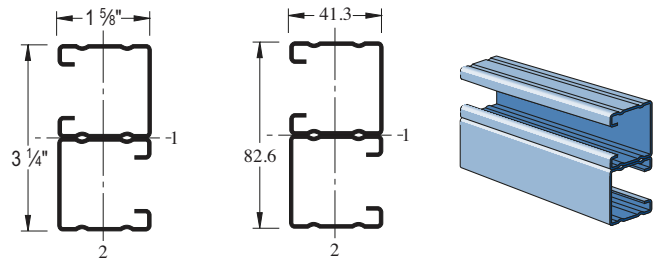
Wt/100 Ft: 232 Lbs (346 kg/100 m)
 Allowable Moment 9,570 In-Lbs (1,080 N•m)
 16 Gauge Nominal Thickness .060" (1.5mm)

P2001 A



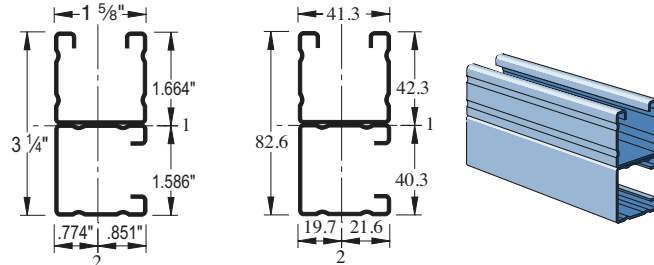
Wt/100 Ft: 232 Lbs (346 kg/100 m)
 Allowable Moment 11,660 In-Lbs (1,320 N•m)
 16 Gauge Nominal Thickness .060" (1.5mm)

P2001 B



Wt/100 Ft: 232 Lbs (346 kg/100 m)
 Allowable Moment 11,660 In-Lbs (1,320 N•m)
 16 Gauge Nominal Thickness .060" (1.5mm)

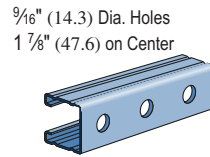
P2001 C



Wt/100 Ft: 232 Lbs (346 kg/100 m)
 Allowable Moment 10,350 In-Lbs (1,170 N•m)
 16 Gauge Nominal Thickness .060" (1.5mm)

P2000 HS

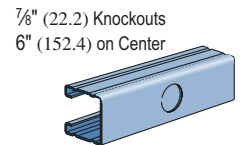
GR PG



Wt/100 Ft: 113 Lbs (168 kg/100 m)

P2000 KO

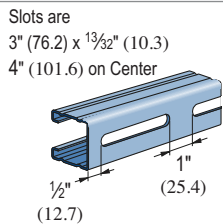
GR PG



Wt/100 Ft: 117 Lbs (174 kg/100 m)

P2000 SL

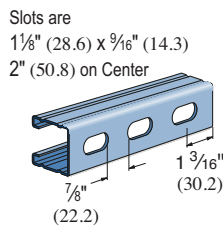
GR PG



Wt/100 Ft: 113 Lbs (168 kg/100 m)

P2000 T

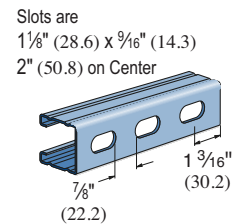
GR PG



Wt/100 Ft: 113 Lbs (168 kg/100 m)

P2000 WT

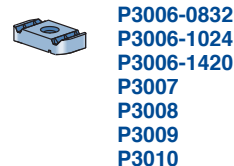
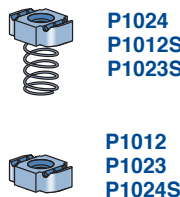
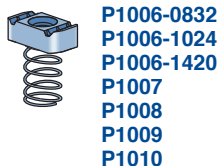
DF GR HG PG PL



Wt/100 Ft: 113 Lbs (168 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



Channel Finishes: PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'

1 5/8" Channel
 Telestrut
 Nuts & Hardware
 General Fittings
 Pipe/Conduit Supports
 Electrical Fittings
 Concrete Inserts
 Solar
 Unipier®

P2000 - BEAM LOADING

| 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 |
| 24 | 1,170 | 0.06 | 1,170 | 1,170 | 1,170 |
| 36 | 780 | 0.13 | 780 | 780 | 610 |
| 48 | 590 | 0.23 | 590 | 510 | 340 |
| 60 | 470 | 0.36 | 440 | 330 | 220 |
| 72 | 390 | 0.52 | 300 | 230 | 150 |
| 84 | 340 | 0.71 | 220 | 170 | 110 |
| 96 | 290 | 0.91 | 170 | 130 | 90 |
| 108 | 260 | 1.16 | 130 | 100 | 70 |
| 120 | 230 | 1.41 | 110 | 80 | 50 |
| 144 | 200 | 2.12 | 80 | 60 | 40 |
| 168 | 170 | 2.86 | 60 | 40 | 30 |
| 192 | 150 | 3.76 | 40 | 30 | 20 |
| 216 | 130 | 4.64 | 30 | 30 | NR |
| 240 | 120 | 5.88 | 30 | NR | NR |

P2001 - BEAM LOADING

| 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 |
| 24 | 1,610* | 0.02 | 1,610* | 1,610* | 1,610* |
| 36 | 1,610* | 0.05 | 1,610* | 1,610* | 1,610* |
| 48 | 1,600 | 0.13 | 1,600 | 1,600 | 1,600 |
| 60 | 1,280 | 0.20 | 1,280 | 1,280 | 1,080 |
| 72 | 1,060 | 0.28 | 1,060 | 1,060 | 750 |
| 84 | 910 | 0.38 | 910 | 830 | 550 |
| 96 | 800 | 0.51 | 800 | 630 | 420 |
| 108 | 710 | 0.64 | 670 | 500 | 330 |
| 120 | 640 | 0.79 | 540 | 410 | 270 |
| 144 | 530 | 1.13 | 380 | 280 | 190 |
| 168 | 460 | 1.56 | 280 | 210 | 140 |
| 192 | 400 | 2.02 | 210 | 160 | 110 |
| 216 | 350 | 2.52 | 170 | 130 | 80 |
| 240 | 320 | 3.16 | 140 | 100 | 70 |

P2000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 2,400 | 6,650 | 6,080 | 5,280 | 4,470 |
| 36 | 2,050 | 5,380 | 4,470 | 3,370 | 2,500 |
| 48 | 1,600 | 4,090 | 3,040 | 2,100 | 1,590 |
| 60 | 1,230 | 2,960 | 2,100 | 1,500 | 1,160 |
| 72 | 970 | 2,190 | 1,590 | 1,160 | 910 |
| 84 | 790 | 1,720 | 1,270 | 950 | 760 |
| 96 | 660 | 1,410 | 1,060 | 800 | 650 |
| 108 | 570 | 1,200 | 910 | 700 | ** |
| 120 | 510 | 1,040 | 800 | 620 | ** |
| 144 | 420 | 830 | 650 | ** | ** |

P2001 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 4,200 | 15,030 | 14,600 | 13,940 | 13,220 |
| 36 | 4,070 | 14,030 | 13,220 | 12,090 | 10,990 |
| 48 | 3,920 | 12,850 | 11,720 | 10,290 | 9,040 |
| 60 | 3,700 | 11,630 | 10,290 | 8,760 | 7,530 |
| 72 | 3,410 | 10,460 | 9,040 | 7,530 | 5,740 |
| 84 | 3,140 | 9,410 | 7,990 | 6,080 | 4,220 |
| 96 | 2,890 | 8,490 | 7,120 | 4,650 | 3,230 |
| 108 | 2,530 | 7,700 | 5,740 | 3,680 | 2,550 |
| 120 | 2,210 | 6,950 | 4,650 | 2,980 | ** |
| 144 | 1,690 | 4,890 | 3,230 | ** | ** |

P2000/P2001 - ELEMENTS OF SECTION

| Parameter | P2000 | | P2001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.342 | ln ² | 0.684 | ln ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.125 | ln ⁴ | 0.618 | ln ⁴ |
| Section Modulus (S) | 0.140 | ln ³ | 0.381 | ln ³ |
| Radius of Gyration (r) | 0.604 | ln | 0.951 | ln |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.151 | ln ⁴ | 0.302 | ln ⁴ |
| Section Modulus (S) | 0.186 | ln ³ | 0.372 | ln ³ |
| Radius of Gyration (r) | 0.665 | ln | 0.665 | ln |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P2000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 5.3 | 1 | 5.3 | 5.3 | 5.3 |
| 750 | 4.2 | 2 | 4.2 | 4.2 | 4.0 |
| 1,000 | 3.2 | 4 | 3.2 | 3.2 | 2.3 |
| 1,250 | 2.5 | 6 | 2.5 | 2.2 | 1.4 |
| 1,500 | 2.1 | 9 | 2.0 | 1.5 | 1.0 |
| 1,750 | 1.8 | 12 | 1.5 | 1.1 | 0.8 |
| 2,000 | 1.6 | 16 | 1.1 | 0.8 | 0.6 |
| 2,500 | 1.3 | 25 | 0.7 | 0.5 | 0.4 |
| 3,000 | 1.1 | 36 | 0.5 | 0.4 | 0.3 |
| 3,500 | 0.9 | 47 | 0.4 | 0.3 | 0.2 |
| 4,000 | 0.8 | 63 | 0.3 | 0.2 | 0.1 |
| 4,500 | 0.7 | 80 | 0.2 | 0.2 | 0.1 |
| 5,000 | 0.6 | 96 | 0.2 | 0.1 | 0.1 |
| 6,000 | 0.5 | 142 | 0.1 | NR | NR |

P2001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 7.2 * | 0 | 7.2 * | 7.2 * | 7.2 * |
| 750 | 7.2 * | 1 | 7.2 * | 7.2 * | 7.2 * |
| 1,000 | 7.2 * | 2 | 7.2 * | 7.2 * | 7.2 * |
| 1,250 | 6.9 | 3 | 6.9 | 6.9 | 6.9 |
| 1,500 | 5.8 | 5 | 5.8 | 5.8 | 5.0 |
| 1,750 | 4.9 | 7 | 4.9 | 4.9 | 3.6 |
| 2,000 | 4.3 | 9 | 4.3 | 4.2 | 2.8 |
| 2,500 | 3.5 | 13 | 3.5 | 2.7 | 1.8 |
| 3,000 | 2.9 | 19 | 2.5 | 1.9 | 1.2 |
| 3,500 | 2.5 | 27 | 1.8 | 1.4 | 0.9 |
| 4,000 | 2.2 | 35 | 1.4 | 1.1 | 0.7 |
| 4,500 | 1.9 | 43 | 1.1 | 0.8 | 0.5 |
| 5,000 | 1.7 | 54 | 0.9 | 0.7 | 0.4 |
| 6,000 | 1.4 | 76 | 0.6 | 0.4 | 0.3 |

P2000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 10.7 | 29.8 | 27.3 | 23.8 | 20.2 |
| 750 | 10.1 | 27.0 | 23.8 | 19.3 | 15.3 |
| 1,000 | 8.5 | 22.3 | 18.0 | 12.9 | 9.6 |
| 1,250 | 6.9 | 17.6 | 12.9 | 9.0 | 6.8 |
| 1,500 | 5.6 | 13.5 | 9.6 | 6.8 | 5.2 |
| 1,750 | 4.6 | 10.5 | 7.6 | 5.5 | 4.3 |
| 2,000 | 3.8 | 8.5 | 6.2 | 4.6 | 3.6 |
| 2,250 | 3.3 | 7.1 | 5.2 | 4.0 | 3.2 |
| 2,500 | 2.8 | 6.1 | 4.6 | 3.5 | 2.8 |
| 2,750 | 2.5 | 5.3 | 4.1 | 3.1 | ** |

P2001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 18.7 | 67.0 | 65.1 | 62.2 | 59.1 |
| 750 | 18.4 | 64.9 | 62.2 | 58.3 | 54.2 |
| 1,000 | 17.9 | 61.0 | 56.9 | 51.5 | 46.3 |
| 1,250 | 17.3 | 56.6 | 51.5 | 45.0 | 39.5 |
| 1,500 | 16.5 | 52.1 | 46.3 | 39.5 | 34.0 |
| 1,750 | 15.5 | 47.9 | 41.6 | 34.8 | 27.9 |
| 2,000 | 14.5 | 43.9 | 37.5 | 30.4 | 21.3 |
| 2,250 | 13.6 | 40.2 | 34.0 | 24.3 | 16.9 |
| 2,500 | 12.5 | 37.0 | 30.4 | 19.7 | 13.7 |
| 2,750 | 11.3 | 34.2 | 25.4 | 16.3 | 11.3 |

P2000/P2001 - ELEMENTS OF SECTION (METRIC)

| Parameter | P2000 | P2001 |
|------------------------|----------------------|-----------------------|
| Area of Section | 2.21 cm ² | 4.41 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 5.19 cm ⁴ | 25.74 cm ⁴ |
| Section Modulus (S) | 2.29 cm ³ | 6.24 cm ³ |
| Radius of Gyration (r) | 1.53 cm | 2.42 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 6.29 cm ⁴ | 12.58 cm ⁴ |
| Section Modulus (S) | 3.05 cm ³ | 6.10 cm ³ |
| Radius of Gyration (r) | 1.69 cm | 1.69 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:
"KO" Series95% **"T" Series85%**
"HS" Series90% **"SL" Series85%**
"WT" Series85%
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



1 5/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

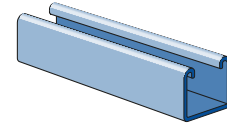
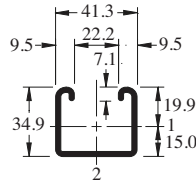
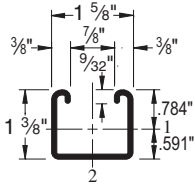
Concrete Inserts

Solar

Unipier®

P3000

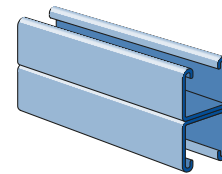
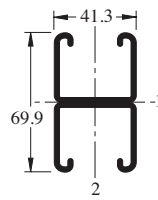
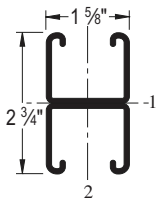
GR PG



Wt/100 Ft: 170 Lbs (253 kg/100 m)
 Allowable Moment 3,840 In-Lbs (430 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P3001

GR PG

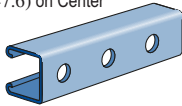


Wt/100 Ft: 340 Lbs (506 kg/100 m)
 Allowable Moment 10,810 In-Lbs (1,220 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P3000 HS

GR PG

9/16" (14.3) Dia. Holes
 1 7/8" (47.6) on Center

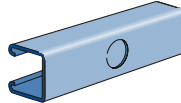


Wt/100 Ft: 165 Lbs (246 kg/100 m)

P3000 KO

GR PG

7/8" (22.2) Knockouts
 6" (152.4) on Center

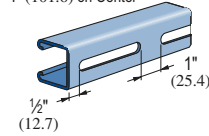


Wt/100 Ft: 170 Lbs (253 kg/100 m)

P3000 SL

GR PG

Slots are
 3" (76.2) x 1/2" (10.3)
 4" (101.6) on Center

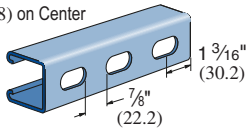


Wt/100 Ft: 165 Lbs (246 kg/100 m)

P3000 T

GR PG

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

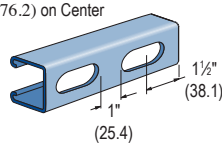


Wt/100 Ft: 165 Lbs (246 kg/100 m)

P3000 WT

DF GR HG PG PL

Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 165 Lbs (246 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P1006-0832
P1006-1024
P1006-1420
P1007
P1008
P1009
P1010



P1008T
P1006T1420
P1010T



P1024
P1012S
P1023S



P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3010



P3016-0632
P3016-0832
P3016-1024
P3016-1420



P1012
P1023
P1024S

Channel Finishes: PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'

P3000 - BEAM LOADING

| 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 |
| 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 |

P3001 - BEAM LOADING

| 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 |
| 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 |

P3000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P3001 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P3000/P3001 - ELEMENTS OF SECTION

| Parameter | P3000 | P3001 |
|------------------------|-----------------------|-----------------------|
| Area of Section | 0.500 In ² | 1.000 In ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 0.120 In ⁴ | 0.591 In ⁴ |
| Section Modulus (S) | 0.153 In ³ | 0.430 In ³ |
| Radius of Gyration (r) | 0.489 In | 0.769 In |
| Axis 2-2 | | |
| Moment of Inertia (I) | 0.203 In ⁴ | 0.407 In ⁴ |
| Section Modulus (S) | 0.250 In ³ | 0.501 In ³ |
| Radius of Gyration (r) | 0.638 In | 0.638 In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



P3000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 5.8 | 2 | 5.8 | 5.8 | 5.8 |
| 750 | 4.6 | 3 | 4.6 | 4.6 | 3.8 |
| 1,000 | 3.5 | 4 | 3.5 | 3.2 | 2.2 |
| 1,250 | 2.8 | 7 | 2.8 | 2.1 | 1.4 |
| 1,500 | 2.3 | 10 | 1.9 | 1.4 | 1.0 |
| 1,750 | 2.0 | 14 | 1.4 | 1.1 | 0.7 |
| 2,000 | 1.7 | 18 | 1.1 | 0.8 | 0.5 |
| 2,500 | 1.4 | 28 | 0.7 | 0.5 | 0.4 |
| 3,000 | 1.2 | 40 | 0.5 | 0.4 | 0.2 |
| 3,500 | 1.0 | 54 | 0.4 | 0.3 | 0.2 |
| 4,000 | 0.9 | 73 | 0.3 | 0.2 | 0.1 |
| 4,500 | 0.8 | 89 | 0.2 | 0.2 | NR |
| 5,000 | 0.7 | 115 | 0.2 | 0.1 | NR |
| 6,000 | 0.6 | 161 | NR | NR | NR |

P3001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 13.2 * | 1 | 13.2 * | 13.2 * | 13.2 * |
| 750 | 13.0 | 1 | 13.0 | 13.0 | 13.0 |
| 1,000 | 9.8 | 3 | 9.8 | 9.8 | 9.8 |
| 1,250 | 7.8 | 4 | 7.8 | 7.8 | 6.9 |
| 1,500 | 6.5 | 6 | 6.5 | 6.5 | 4.8 |
| 1,750 | 5.6 | 8 | 5.6 | 5.2 | 3.5 |
| 2,000 | 4.9 | 10 | 4.9 | 4.0 | 2.7 |
| 2,500 | 3.9 | 16 | 3.4 | 2.6 | 1.7 |
| 3,000 | 3.2 | 23 | 2.4 | 1.8 | 1.2 |
| 3,500 | 2.8 | 31 | 1.7 | 1.3 | 0.9 |
| 4,000 | 2.4 | 41 | 1.3 | 1.0 | 0.7 |
| 4,500 | 2.2 | 52 | 1.1 | 0.8 | 0.5 |
| 5,000 | 2.0 | 64 | 0.8 | 0.6 | 0.4 |
| 6,000 | 1.6 | 92 | 0.6 | 0.4 | 0.3 |

P3000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 14.2 | 43.3 | 40.2 | 36.1 | 32.4 |
| 750 | 13.6 | 39.9 | 36.1 | 31.5 | 27.6 |
| 1,000 | 12.5 | 34.5 | 30.2 | 25.3 | 21.3 |
| 1,250 | 11.4 | 29.8 | 25.3 | 20.5 | 16.7 |
| 1,500 | 10.3 | 25.8 | 21.3 | 16.7 | 13.6 |
| 1,750 | 9.4 | 22.5 | 18.1 | 14.0 | 11.0 |
| 2,000 | 8.5 | 19.6 | 15.5 | 11.9 | 8.5 |
| 2,250 | 7.8 | 17.2 | 13.6 | 9.6 | ** |
| 2,500 | 7.2 | 15.3 | 11.9 | ** | ** |
| 2,750 | 6.4 | 13.7 | 10.1 | ** | ** |

P3001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 25.5 | 97.1 | 94.5 | 91.1 | 88.0 |
| 750 | 25.3 | 94.3 | 91.1 | 87.3 | 84.0 |
| 1,000 | 24.9 | 89.8 | 86.1 | 82.2 | 74.5 |
| 1,250 | 24.6 | 85.8 | 82.2 | 72.4 | 61.8 |
| 1,500 | 23.8 | 82.6 | 74.5 | 61.8 | 49.2 |
| 1,750 | 22.8 | 77.0 | 66.1 | 51.3 | 37.5 |
| 2,000 | 21.4 | 70.3 | 57.6 | 41.3 | 28.7 |
| 2,250 | 19.9 | 63.4 | 49.2 | 32.7 | 22.7 |
| 2,500 | 18.2 | 56.5 | 41.3 | 26.5 | 18.4 |
| 2,750 | 16.5 | 49.8 | 34.2 | 21.9 | ** |

P3000/P3001 - ELEMENTS OF SECTION (METRIC)

| Parameter | P3000 | | P3001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 3.23 | cm ² | 6.45 | cm ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 4.97 | cm ⁴ | 24.61 | cm ⁴ |
| Section Modulus (S) | 2.51 | cm ³ | 7.05 | cm ³ |
| Radius of Gyration (r) | 1.24 | cm | 1.95 | cm |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 8.47 | cm ⁴ | 16.93 | cm ⁴ |
| Section Modulus (S) | 4.10 | cm ³ | 8.20 | cm ³ |
| Radius of Gyration (r) | 1.62 | cm | 1.62 | cm |

Notes:

* Load limited by spot weld shear.

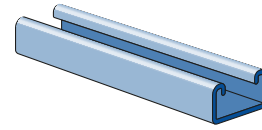
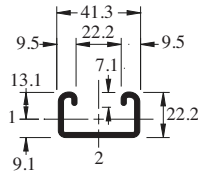
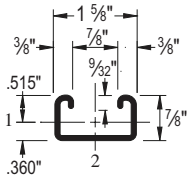
** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:
"KO" Series 95% **"T" Series 85%**
"HS" Series 90% **"SL" Series 85%**
"WT" Series 85%
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P3300

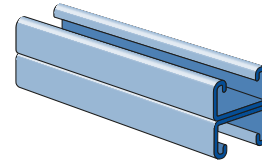
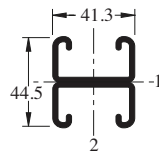
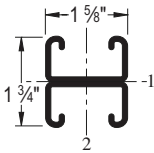
DF GR PG PL



Wt/100 Ft: 134 Lbs (200 kg/100 m)
 Allowable Moment 1,800 In-Lbs (200 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P3301

DF GR PG

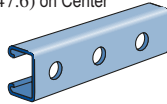


Wt/100 Ft: 269 Lbs (400 kg/100 m)
 Allowable Moment 5,060 In-Lbs (570 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P3300 HS

GR PG

9/16" (14.3) Dia. Holes
 1 7/8" (47.6) on Center

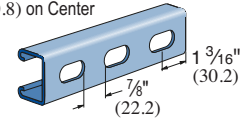


Wt/100 Ft: 130 Lbs (193 kg/100 m)

P3300 T

DF GR PG

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

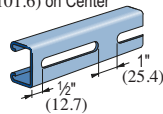


Wt/100 Ft: 130 Lbs (193 kg/100 m)

P3300 SL

GR PG

Slots are
 3" (76.2) x 1 3/32" (10.3)
 4" (101.6) on Center

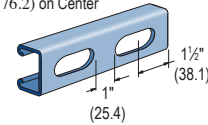


Wt/100 Ft: 130 Lbs (193 kg/100 m)

P3300 WT

DF GR HG PG PL

Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 130 Lbs (193 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P4006-0832
P4006-1024
P4006-1420
P4007
P4008
P4009
P4010



P4010T



P4012
P4023



P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3013



P3016-0632
P3016-0832
P3016-1024
P3016-1420

Channel Finishes: DF, PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'



P3300 - BEAM LOADING

| 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 |
| 24 | 600 | 0.10 | 600 | 600 | 400 |
| 36 | 400 | 0.22 | 360 | 270 | 180 |
| 48 | 300 | 0.40 | 200 | 150 | 100 |
| 60 | 240 | 0.62 | 130 | 100 | 60 |
| 72 | 200 | 0.89 | 90 | 70 | 40 |
| 84 | 170 | 1.20 | 70 | 50 | 30 |
| 96 | 150 | 1.59 | 50 | 40 | 30 |
| 108 | 130 | 1.96 | 40 | 30 | 20 |
| 120 | 120 | 2.48 | 30 | 20 | 20 |

P3301 - BEAM LOADING

| 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 |
| 24 | 1,690 | 0.06 | 1,690 | 1,690 | 1,690 |
| 36 | 1,130 | 0.13 | 1,130 | 1,130 | 860 |
| 48 | 840 | 0.23 | 840 | 720 | 480 |
| 60 | 680 | 0.37 | 620 | 460 | 310 |
| 72 | 560 | 0.52 | 430 | 320 | 210 |
| 84 | 480 | 0.71 | 310 | 240 | 160 |
| 96 | 420 | 0.93 | 240 | 180 | 120 |
| 108 | 380 | 1.20 | 190 | 140 | 100 |
| 120 | 340 | 1.47 | 150 | 120 | 80 |
| 144 | 280 | 2.09 | 110 | 80 | 50 |

P3300 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 2,360 | 7,740 | 7,260 | 6,350 | 5,390 |
| 36 | 2,120 | 6,470 | 5,390 | 3,990 | 2,810 |
| 48 | 1,760 | 4,910 | 3,550 | 2,270 | 1,580 |
| 60 | 1,380 | 3,440 | 2,270 | 1,460 | ** |
| 72 | 1,080 | 2,390 | 1,580 | ** | ** |

P3301 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 4,290 | 16,990 | 16,580 | 15,770 | 14,720 |
| 36 | 4,150 | 15,890 | 14,720 | 12,980 | 11,120 |
| 48 | 3,940 | 14,160 | 12,360 | 9,880 | 7,510 |
| 60 | 3,650 | 12,210 | 9,880 | 6,940 | 4,820 |
| 72 | 3,270 | 10,190 | 7,510 | 4,820 | 3,350 |
| 84 | 2,800 | 8,220 | 5,530 | 3,540 | ** |
| 96 | 2,410 | 6,420 | 4,240 | ** | ** |
| 108 | 2,080 | 5,070 | 3,350 | ** | ** |

P3300/P3301 - ELEMENTS OF SECTION

| Parameter | P3300 | | P3301 | |
|------------------------|-------|-----------------|-------|-----------------|
| | Value | Unit | Value | Unit |
| Area of Section | 0.395 | In ² | 0.790 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.037 | In ⁴ | 0.176 | In ⁴ |
| Section Modulus (S) | 0.072 | In ³ | 0.201 | In ³ |
| Radius of Gyration (r) | 0.306 | In | 0.472 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.143 | In ⁴ | 0.285 | In ⁴ |
| Section Modulus (S) | 0.176 | In ³ | 0.351 | In ³ |
| Radius of Gyration (r) | 0.601 | In | 0.601 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P3300 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 2.7 | 2 | 2.7 | 2.7 | 1.9 |
| 750 | 2.2 | 4 | 2.2 | 1.8 | 1.2 |
| 1,000 | 1.6 | 7 | 1.3 | 1.0 | 0.7 |
| 1,250 | 1.3 | 10 | 0.8 | 0.6 | 0.4 |
| 1,500 | 1.1 | 15 | 0.6 | 0.4 | 0.3 |
| 1,750 | 0.9 | 21 | 0.4 | 0.3 | 0.2 |
| 2,000 | 0.8 | 27 | 0.3 | 0.3 | 0.2 |
| 2,500 | 0.7 | 43 | 0.2 | 0.2 | 0.1 |
| 3,000 | 0.5 | 60 | 0.1 | 0.1 | 0.1 |
| 3,500 | 0.4 | 79 | 0.1 | 0.1 | NR |

P3301 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 7.6 | 1 | 7.6 | 7.6 | 7.6 |
| 750 | 6.1 | 2 | 6.1 | 6.1 | 5.6 |
| 1,000 | 4.6 | 4 | 4.6 | 4.6 | 3.2 |
| 1,250 | 3.6 | 6 | 3.6 | 3.1 | 2.0 |
| 1,500 | 3.1 | 9 | 2.8 | 2.1 | 1.4 |
| 1,750 | 2.6 | 12 | 2.1 | 1.6 | 1.0 |
| 2,000 | 2.3 | 16 | 1.6 | 1.2 | 0.8 |
| 2,500 | 1.8 | 25 | 1.0 | 0.8 | 0.5 |
| 3,000 | 1.5 | 36 | 0.7 | 0.5 | 0.4 |
| 3,500 | 1.3 | 48 | 0.5 | 0.4 | 0.3 |
| 4,000 | 1.2 | 65 | 0.4 | 0.3 | 0.2 |

P3300 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 10.5 | 34.6 | 32.6 | 28.6 | 24.4 |
| 750 | 10.1 | 32.3 | 28.6 | 23.3 | 18.2 |
| 1,000 | 9.1 | 26.9 | 21.6 | 15.0 | 10.5 |
| 1,250 | 7.6 | 21.2 | 15.0 | 9.6 | 6.7 |
| 1,500 | 6.3 | 15.8 | 10.5 | 6.7 | ** |
| 1,750 | 5.1 | 11.6 | 7.6 | ** | ** |

P3301 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kg |
| 600 | 19.1 | 75.7 | 73.9 | 70.5 | 66.0 |
| 750 | 18.9 | 73.8 | 70.5 | 64.7 | 58.4 |
| 1,000 | 18.2 | 68.6 | 62.7 | 53.9 | 44.8 |
| 1,250 | 17.4 | 62.1 | 53.9 | 42.6 | 31.9 |
| 1,500 | 16.4 | 55.0 | 44.8 | 31.9 | 22.2 |
| 1,750 | 15.0 | 47.6 | 36.0 | 23.4 | 16.3 |
| 2,000 | 13.3 | 40.3 | 28.0 | 17.9 | ** |
| 2,250 | 11.8 | 33.4 | 22.2 | 14.1 | ** |
| 2,500 | 10.4 | 27.2 | 17.9 | ** | ** |
| 2,750 | 9.2 | 22.5 | 14.8 | ** | ** |

P3300/P3301 - ELEMENTS OF SECTION (METRIC)

| Parameter | P3300 | P3301 |
|------------------------|----------------------|-----------------------|
| Area of Section | 2.55 cm ² | 5.10 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 1.54 cm ⁴ | 7.33 cm ⁴ |
| Section Modulus (S) | 1.18 cm ³ | 3.30 cm ³ |
| Radius of Gyration (r) | 0.78 cm | 1.20 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 5.94 cm ⁴ | 11.87 cm ⁴ |
| Section Modulus (S) | 2.88 cm ³ | 5.75 cm ³ |
| Radius of Gyration (r) | 1.53 cm | 1.53 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

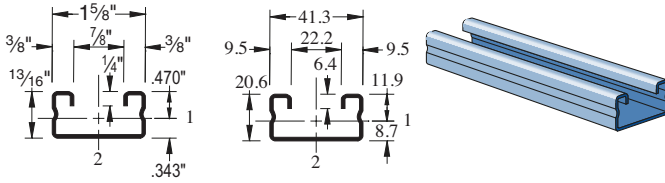
| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



1 5/8" Channel
 Telestrut
 Nuts & Hardware
 General Fittings
 Pipe/Conduit Supports
 Electrical Fittings
 Concrete Inserts
 Solar

P4000

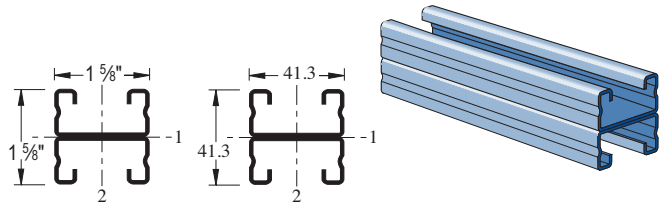
HG PG GR



Wt/100 Ft: 83 Lbs (123 kg/100 m)
 Allowable Moment 1,230 In-Lbs (140 N·m)
 16 Gauge Nominal Thickness .060" (1.5mm)

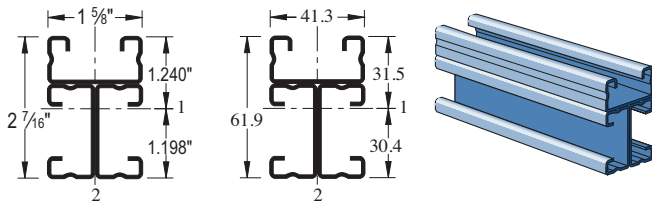
P4001

GR PG



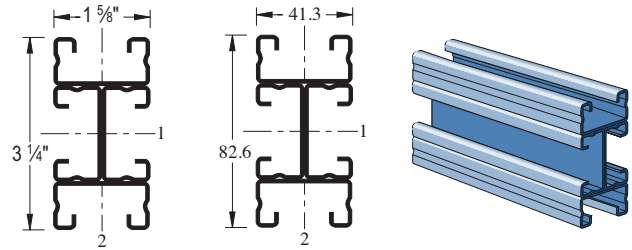
Wt/100 Ft: 166 Lbs (246 kg/100 m)
 Allowable Moment 3,210 In-Lbs (360 N·m)
 16 Gauge Nominal Thickness .060" (1.5mm)

P4003



Wt/100 Ft: 248 Lbs (370 kg/100 m)
 Allowable Moment 8,600 In-Lbs (970 N·m)
 16 Gauge Nominal Thickness .060" (1.5mm)

P4004

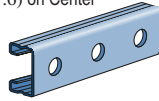


Wt/100 Ft: 331 Lbs (493 kg/100 m)
 Allowable Moment 13,650 In-Lbs (1,540 N·m)
 16 Gauge Nominal Thickness .060" (1.5mm)

P4000 HS

GR PG

9/16" (14.3) Dia. Holes
 1 7/8" (47.6) on Center

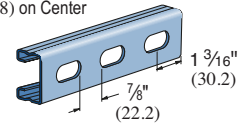


Wt/100 Ft: 79 Lbs (118 kg/100 m)

P4000 T

GR PG

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

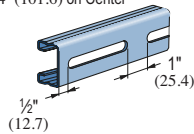


Wt/100 Ft: 79 Lbs (118 kg/100 m)

P4000 SL

GR PG

Slots are
 3" (76.2) x 1 3/32" (10.3)
 4" (101.6) on Center

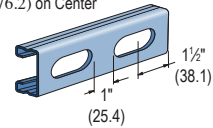


Wt/100 Ft: 79 Lbs (118 kg/100 m)

P4000 WT

DF GR HG PG PL

Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 79 Lbs (118 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P4006-0832
P4006-1024
P4006-1420
P4007
P4008
P4009
P4010



P4010T



P4012
P4023



P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3013



P3016-0632
P3016-0832
P3016-1024
P3016-1420

Channel Finishes: PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'

P4000 - BEAM LOADING

| 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 |
| 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 |

P4001 - BEAM LOADING

| 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 |
| 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 |

P4000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P4001 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P4000/P4001 - ELEMENTS OF SECTION

| Parameter | P4000 | | P4001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.244 | In ² | 0.487 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.023 | In ⁴ | 0.104 | In ⁴ |
| Section Modulus (S) | 0.049 | In ³ | 0.128 | In ³ |
| Radius of Gyration (r) | 0.306 | In | 0.462 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.092 | In ⁴ | 0.183 | In ⁴ |
| Section Modulus (S) | 0.113 | In ³ | 0.225 | In ³ |
| Radius of Gyration (r) | 0.613 | In | 0.613 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



P4000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 1.9 | 3 | 1.9 | 1.7 | 1.2 |
| 750 | 1.5 | 4 | 1.5 | 1.1 | 0.7 |
| 1,000 | 1.1 | 8 | 0.8 | 0.6 | 0.4 |
| 1,250 | 0.9 | 12 | 0.5 | 0.4 | 0.3 |
| 1,500 | 0.8 | 17 | 0.4 | 0.3 | 0.2 |
| 1,750 | 0.6 | 23 | 0.3 | 0.2 | 0.1 |
| 2,000 | 0.5 | 29 | 0.2 | 0.1 | 0.1 |
| 2,500 | 0.4 | 47 | 0.1 | 0.1 | NR |
| 3,000 | 0.4 | 65 | 0.1 | 0.1 | NR |

P4001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 3.6 * | 1 | 3.6 * | 3.6 * | 3.6 * |
| 750 | 3.6 * | 2 | 3.6 * | 3.6 * | 3.3 |
| 1,000 | 2.9 | 4 | 2.9 | 2.8 | 1.9 |
| 1,250 | 2.3 | 7 | 2.3 | 1.8 | 1.2 |
| 1,500 | 2.0 | 10 | 1.6 | 1.2 | 0.8 |
| 1,750 | 1.6 | 13 | 1.2 | 0.9 | 0.6 |
| 2,000 | 1.5 | 17 | 0.9 | 0.7 | 0.5 |
| 2,500 | 1.2 | 27 | 0.6 | 0.4 | 0.3 |
| 3,000 | 1.0 | 39 | 0.4 | 0.3 | 0.2 |
| 3,500 | 0.8 | 54 | 0.3 | 0.2 | 0.1 |

P4000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 7.2 | 20.9 | 19.2 | 17.0 | 14.9 |
| 750 | 6.9 | 19.1 | 17.0 | 14.4 | 11.3 |
| 1,000 | 6.1 | 16.1 | 13.3 | 9.2 | 6.5 |
| 1,250 | 5.0 | 13.0 | 9.2 | 5.9 | 4.1 |
| 1,500 | 4.0 | 9.7 | 6.5 | 4.1 | ** |
| 1,750 | 3.2 | 7.2 | 4.7 | ** | ** |

P4001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 12.6 | 46.3 | 44.6 | 42.3 | 40.0 |
| 750 | 12.4 | 44.5 | 42.3 | 39.5 | 35.4 |
| 1,000 | 12.1 | 41.3 | 38.2 | 32.6 | 26.9 |
| 1,250 | 11.4 | 37.8 | 32.6 | 25.4 | 18.8 |
| 1,500 | 10.5 | 33.3 | 26.9 | 18.8 | 13.0 |
| 1,750 | 9.4 | 28.6 | 21.3 | 13.8 | 9.6 |
| 2,000 | 8.1 | 24.1 | 16.5 | 10.5 | ** |
| 2,250 | 7.1 | 19.8 | 13.0 | 8.4 | ** |
| 2,500 | 6.2 | 16.0 | 10.5 | ** | ** |
| 2,750 | 5.4 | 13.2 | 8.7 | ** | ** |

P4000/P4001 - ELEMENTS OF SECTION (METRIC)

| Parameter | P4000 | | P4001 | |
|------------------------|-------|-----------------|-------|-----------------|
| | Value | Unit | Value | Unit |
| Area of Section | 1.57 | cm ² | 3.14 | cm ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.95 | cm ⁴ | 4.32 | cm ⁴ |
| Section Modulus (S) | 0.80 | cm ³ | 2.09 | cm ³ |
| Radius of Gyration (r) | 0.78 | cm | 1.17 | cm |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 3.81 | cm ⁴ | 7.62 | cm ⁴ |
| Section Modulus (S) | 1.85 | cm ³ | 3.69 | cm ³ |
| Radius of Gyration (r) | 1.56 | cm | 1.56 | cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

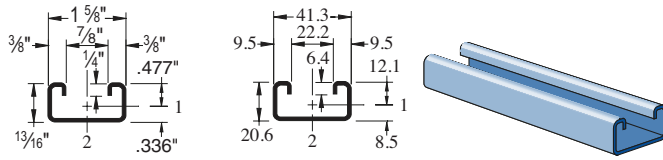
NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P4100

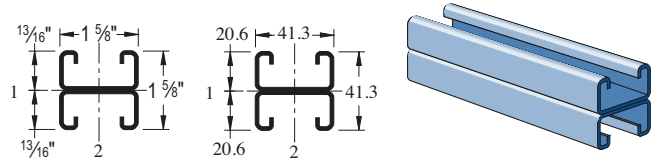
DF GR PG



Wt/100 Ft: 98 Lbs (147 kg/100 m)
 Allowable Moment 1,360 In-Lbs (150 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

P4101

DF GR PG

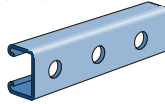


Wt/100 Ft: 197 Lbs (293 kg/100 m)
 Allowable Moment 3,610 In-Lbs (410 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

P4100 HS

GR PG

5/16" (14.3) Dia. Holes
 1 7/8" (47.6) on Center

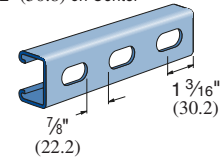


Wt/100 Ft: 87 Lbs (129 kg/100 m)

P4100 T

DF GR PG

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

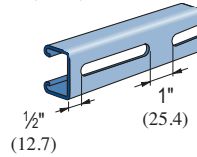


Wt/100 Ft: 87 Lbs (129 kg/100 m)

P4100 SL

GR PG

Slots are
 3" (76.2) x 1 3/32" (10.3)
 4" (101.6) on Center

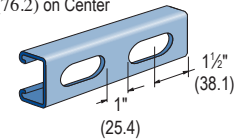


Wt/100 Ft: 87 Lbs (129 kg/100 m)

P4100 WT

DF GR HG PG PL

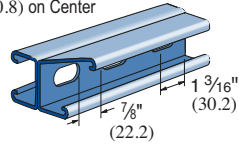
Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 87 Lbs (129 kg/100 m)

P4101 T

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

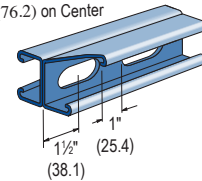


Wt/100 Ft: 174 Lbs (259 kg/100 m)

P4101 WT

DF GR HG PG PL

Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 174 Lbs (259 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P4006-0832
P4006-1024
P4006-1420
P4007
P4008
P4009
P4010



P4010T



P4012
P4023



P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3013



P3016-0632
P3016-0832
P3016-1024
P3016-1420

Channel Finishes: DF, PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'



P4100 - BEAM LOADING

| 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 |
| 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 |
| 144 | 80 | 4.09 | 20 | NR | NR |
| 168 | 60 | 4.88 | NR | NR | NR |
| 192 | 60 | 7.28 | NR | NR | NR |
| 216 | 50 | 8.64 | NR | NR | NR |
| 240 | 50 | 11.85 | NR | NR | NR |

P4101 - BEAM LOADING

| 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 |
| 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 |
| 144 | 200 | 2.26 | 70 | 50 | 40 |
| 168 | 170 | 3.05 | 50 | 40 | 30 |
| 192 | 150 | 4.02 | 40 | NR | NR |
| 216 | 130 | 4.96 | NR | NR | NR |
| 240 | 120 | 6.28 | NR | NR | NR |

P4100 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P4101 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 3,240 | 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 | ** | ** |

P4100/P4101 - ELEMENTS OF SECTION

| Parameter | P4100 | | P4101 | |
|------------------------|-------|-----------------|-------|-----------------|
| | Value | Unit | Value | Unit |
| Area of Section | 0.290 | In ² | 0.579 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.026 | In ⁴ | 0.117 | In ⁴ |
| Section Modulus (S) | 0.054 | In ³ | 0.143 | In ³ |
| Radius of Gyration (r) | 0.298 | In | 0.449 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.107 | In ⁴ | 0.214 | In ⁴ |
| Section Modulus (S) | 0.132 | In ³ | 0.264 | In ³ |
| Radius of Gyration (r) | 0.609 | In | 0.608 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P4100 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 2.0 | 3 | 2.0 | 2.0 | 1.3 |
| 750 | 1.6 | 4 | 1.6 | 1.2 | 0.8 |
| 1,000 | 1.2 | 7 | 0.9 | 0.7 | 0.4 |
| 1,250 | 1.0 | 11 | 0.6 | 0.4 | 0.3 |
| 1,500 | 0.8 | 16 | 0.4 | 0.3 | 0.2 |
| 1,750 | 0.7 | 23 | 0.3 | 0.2 | 0.1 |
| 2,000 | 0.6 | 30 | 0.2 | 0.2 | 0.1 |
| 2,500 | 0.5 | 46 | 0.1 | 0.1 | 0.1 |
| 3,000 | 0.4 | 65 | 0.1 | 0.1 | NR |

P4101 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 4.8 * | 1 | 4.8 * | 4.8 * | 4.8 * |
| 750 | 4.4 | 2 | 4.4 | 4.4 | 3.7 |
| 1,000 | 3.2 | 4 | 3.2 | 3.2 | 2.1 |
| 1,250 | 2.6 | 7 | 2.6 | 2.0 | 1.3 |
| 1,500 | 2.2 | 10 | 1.9 | 1.4 | 0.9 |
| 1,750 | 1.9 | 13 | 1.4 | 1.0 | 0.7 |
| 2,000 | 1.6 | 17 | 1.1 | 0.8 | 0.5 |
| 2,500 | 1.3 | 27 | 0.7 | 0.5 | 0.4 |
| 3,000 | 1.1 | 38 | 0.5 | 0.4 | 0.2 |
| 3,500 | 0.9 | 53 | 0.4 | 0.3 | 0.2 |

P4100 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 8.2 | 25.1 | 23.3 | 20.6 | 17.4 |
| 750 | 7.8 | 23.2 | 20.6 | 16.6 | 12.8 |
| 1,000 | 6.9 | 19.3 | 15.3 | 10.5 | 7.3 |
| 1,250 | 5.6 | 15.0 | 10.5 | 6.7 | 4.7 |
| 1,500 | 4.5 | 11.0 | 7.3 | 4.7 | ** |
| 1,750 | 3.6 | 8.1 | 5.3 | ** | ** |

P4101 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 14.4 | 55.1 | 53.3 | 50.8 | 47.2 |
| 750 | 14.2 | 53.2 | 50.8 | 46.3 | 41.2 |
| 1,000 | 13.7 | 49.4 | 44.7 | 37.8 | 30.8 |
| 1,250 | 13.0 | 44.2 | 37.8 | 29.1 | 21.1 |
| 1,500 | 12.0 | 38.7 | 30.8 | 21.1 | 14.6 |
| 1,750 | 10.7 | 33.0 | 24.2 | 15.5 | 10.8 |
| 2,000 | 9.3 | 27.4 | 18.5 | 11.9 | ** |
| 2,250 | 8.1 | 22.2 | 14.6 | 9.4 | ** |

P4100/P4101 - ELEMENTS OF SECTION (METRIC)

| Parameter | P4100 | P4101 |
|------------------------|----------------------|----------------------|
| Area of Section | 1.87 cm ² | 3.74 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 1.07 cm ⁴ | 4.85 cm ⁴ |
| Section Modulus (S) | 0.88 cm ³ | 2.35 cm ³ |
| Radius of Gyration (r) | 0.76 cm | 1.14 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 4.46 cm ⁴ | 8.93 cm ⁴ |
| Section Modulus (S) | 2.16 cm ³ | 4.32 cm ³ |
| Radius of Gyration (r) | 1.55 cm | 1.55 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |

4. Deduct channel weight from the beam loads.

5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.

6. All beam loads are for bending about Axis 1-1.

1 7/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

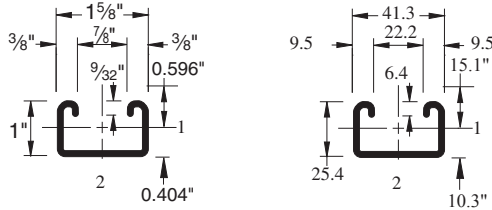
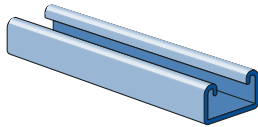
Concrete Inserts

Solar

Unipier®

P4400

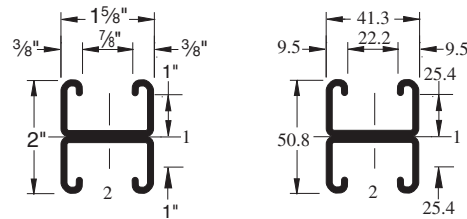
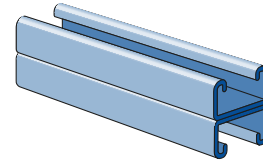
GR PG



Wt/100 Ft: 144 Lbs (210 kg/100 m)
 Allowable Moment 2,300 In-Lbs (260 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P4401

GR PG

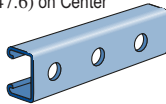


Wt/100 Ft: 289 Lbs (430 kg/100 m)
 Allowable Moment 6,410 In-Lbs (725 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P4400 HS

GR PG

9/16" (14.3) Dia. Holes
 1 7/8" (47.6) on Center

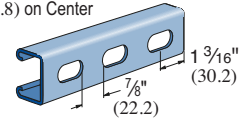


Wt/100 Ft: 136 Lbs (201 kg/100 m)

P4400 T

GR PG

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

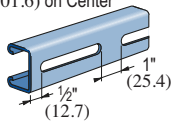


Wt/100 Ft: 136 Lbs (201 kg/100 m)

P4400 SL

GR PG

Slots are
 3" (76.2) x 1 3/32" (10.3)
 4" (101.6) on Center

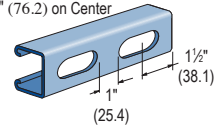


Wt/100 Ft: 136 Lbs (201 kg/100 m)

P4400 WT

DF GR HG PG PL

Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 136 Lbs (201 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P4006-0832
P4006-1024
P4006-1420
P4007
P4008
P4009
P4010



P4010T



P4012
P4023



P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3013



P3016-0632
P3016-0832
P3016-1024
P3016-1420

Channel Finishes: PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'

P4400 - BEAM LOADING

| 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 |
| 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 |

P4401 - BEAM LOADING

| 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 |
| 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 |

P4400 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** | ** |

P4401 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P4400/P4401 - ELEMENTS OF SECTION

| Parameter | P4400 | | P4401 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.424 | In ² | 0.849 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.053 | In ⁴ | 0.255 | In ⁴ |
| Section Modulus (S) | 0.092 | In ³ | 0.255 | In ³ |
| Radius of Gyration (r) | 0.354 | In | 0.548 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.161 | In ⁴ | 0.322 | In ⁴ |
| Section Modulus (S) | 0.198 | In ³ | 0.396 | In ³ |
| Radius of Gyration (r) | 0.616 | In | 0.616 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



P4400 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 3.5 | 2.2 | 3.5 | 3.5 | 2.7 |
| 750 | 2.8 | 3.4 | 2.8 | 2.6 | 1.7 |
| 1000 | 2.1 | 6.0 | 2.0 | 1.5 | 1.0 |
| 1250 | 1.7 | 9.3 | 1.3 | 1.0 | 0.6 |
| 1500 | 1.4 | 13.4 | 0.9 | 0.6 | 0.5 |
| 1750 | 1.2 | 18.6 | 0.6 | 0.5 | 0.3 |
| 2000 | 1.0 | 23.6 | 0.5 | 0.4 | 0.2 |
| 2500 | 0.9 | 38.1 | 0.3 | 0.2 | 0.1 |
| 3000 | 0.7 | 55.5 | 0.2 | 0.2 | 0.1 |
| 3500 | 0.6 | 71.6 | 0.2 | 0.1 | 0.1 |

P4401 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 9.7 | 1.2 | 9.7 | 9.7 | 9.7 |
| 750 | 7.9 | 2.0 | 7.9 | 7.9 | 7.9 |
| 1000 | 5.9 | 3.5 | 5.9 | 5.9 | 4.7 |
| 1250 | 4.7 | 5.5 | 4.7 | 4.5 | 3.0 |
| 1500 | 3.9 | 7.9 | 3.9 | 3.1 | 2.1 |
| 1750 | 3.4 | 10.6 | 3.1 | 2.3 | 1.5 |
| 2000 | 2.9 | 14.0 | 2.4 | 1.8 | 1.2 |
| 2500 | 2.4 | 21.8 | 1.5 | 1.1 | 0.8 |
| 3000 | 2.0 | 31.2 | 1.0 | 0.8 | 0.5 |
| 3500 | 1.7 | 42.6 | 0.8 | 0.6 | 0.4 |
| 4000 | 1.5 | 56.7 | 0.6 | 0.5 | 0.3 |
| 4500 | 1.3 | 70.9 | 0.5 | 0.4 | 0.2 |
| 5000 | 1.2 | 87.2 | 0.4 | 0.3 | NR |
| 6000 | 1.0 | 127.5 | 0.3 | NR | NR |

P4400 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 11.9 | 37.7 | 35.4 | 32.6 | 30.1 |
| 750 | 11.6 | 35.2 | 32.6 | 29.5 | 24.5 |
| 1000 | 10.9 | 31.5 | 27.9 | 21.3 | 15.3 |
| 1250 | 9.7 | 27.4 | 21.3 | 14.2 | 9.8 |
| 1500 | 8.2 | 22.1 | 15.3 | 9.8 | ** |
| 1750 | 6.8 | 17.1 | 11.3 | 7.2 | ** |
| 2000 | 5.7 | 13.1 | 8.6 | ** | ** |
| 2500 | ** | 8.4 | ** | ** | ** |

P4401 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 21.4 | 83.2 | 81.1 | 78.7 | 76.4 |
| 750 | 21.2 | 81.0 | 78.7 | 75.4 | 69.8 |
| 1000 | 20.9 | 77.7 | 73.6 | 65.8 | 57.3 |
| 1250 | 20.2 | 73.1 | 65.8 | 55.2 | 44.5 |
| 1500 | 19.3 | 66.8 | 57.3 | 44.5 | 32.7 |
| 1750 | 18.2 | 60.0 | 48.8 | 34.6 | 24.0 |
| 2000 | 16.8 | 53.1 | 40.5 | 26.4 | 18.4 |
| 2500 | 13.6 | 39.5 | 26.4 | 16.9 | ** |
| 3000 | 10.9 | 27.9 | 18.4 | ** | ** |

P4400/P4401 - ELEMENTS OF SECTION (METRIC)

| Parameter | P4100 | P4101 |
|------------------------|----------------------|-----------------------|
| Area of Section | 2.74 cm ² | 5.48 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 2.21 cm ⁴ | 10.61 cm ⁴ |
| Section Modulus (S) | 1.51 cm ³ | 4.18 cm ³ |
| Radius of Gyration (r) | 0.90 cm | 1.39 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 6.70 cm ⁴ | 13.40 cm ⁴ |
| Section Modulus (S) | 3.24 cm ³ | 6.49 cm ³ |
| Radius of Gyration (r) | 1.57 cm | 1.57 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

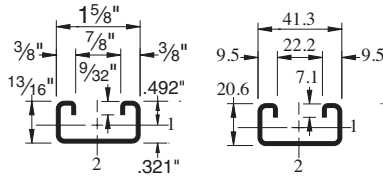
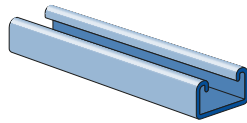
NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | |
|----------------------|----------------------|
| "KO" Series.....95% | "T" Series85% |
| "HS" Series90% | "SL" Series85% |
| "WT" Series.....85% | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P4520

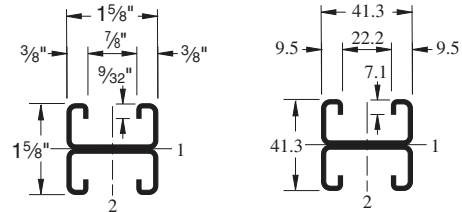
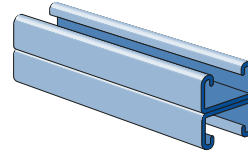
GR PG



Wt/100 Ft: 131 Lbs (190 kg/100 m)
 Allowable Moment 1,615 In-Lbs (183 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P4521

GR PG

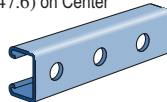


Wt/100 Ft: 262 Lbs (390 kg/100 m)
 Allowable Moment 4,540 In-Lbs (513 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P4520 HS

GR PG

5/16" (14.3) Dia. Holes
 1 7/8" (47.6) on Center

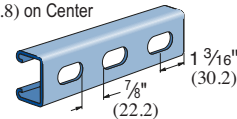


Wt/100 Ft: 120 Lbs (177 kg/100 m)

P4520 T

GR PG

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center

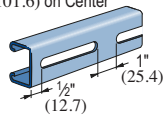


Wt/100 Ft: 120 Lbs (177 kg/100 m)

P4520 SL

GR PG

Slots are
 3" (76.2) x 1 3/32" (10.3)
 4" (101.6) on Center

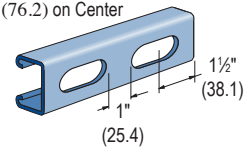


Wt/100 Ft: 118 Lbs (175 kg/100 m)

P4520 WT

DF GR HG PG PL

Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 120 Lbs (177 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P4006-0832
 P4006-1024
 P4006-1420
 P4007
 P4008
 P4009
 P4010



P4010T



P4012
 P4023



P3006-0832
 P3006-1024
 P3006-1420
 P3007
 P3008
 P3009
 P3013



P3016-0632
 P3016-0832
 P3016-1024
 P3016-1420

Channel Finishes: PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'



P4520 - BEAM LOADING

| 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 |
| 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 |

P4521 - BEAM LOADING

| 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 |
| 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 |

P4520 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 950 | 2,000 | ** | ** | ** |

P4521 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** | ** |

P4520/P4521 - ELEMENTS OF SECTION

| Parameter | P4400 | | P4401 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.384 | In ² | 0.770 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.031 | In ⁴ | 0.146 | In ⁴ |
| Section Modulus (S) | 0.064 | In ³ | 0.180 | In ³ |
| Radius of Gyration (r) | 0.283 | In | 0.436 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.138 | In ⁴ | 0.277 | In ⁴ |
| Section Modulus (S) | 0.170 | In ³ | 0.340 | In ³ |
| Radius of Gyration (r) | 0.599 | In | 0.599 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P4520 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 2.5 | 2.6 | 2.5 | 2.4 | 1.6 |
| 750 | 2.0 | 4.1 | 2.0 | 1.5 | 1.0 |
| 1000 | 1.5 | 7.3 | 1.1 | 0.9 | 0.6 |
| 1250 | 1.2 | 11.3 | 0.7 | 0.5 | 0.4 |
| 1500 | 1.0 | 16.5 | 0.5 | 0.4 | 0.3 |
| 1750 | 0.9 | 22.6 | 0.4 | 0.3 | 0.2 |
| 2000 | 0.7 | 28.4 | 0.3 | 0.2 | 0.1 |
| 2500 | 0.6 | 45.0 | 0.2 | 0.1 | 0.1 |
| 3000 | 0.5 | 65.8 | 0.1 | 0.1 | NR |
| 3500 | 0.4 | 85.5 | 0.1 | 0.1 | NR |

P4521 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 7.0 | 1.6 | 7.0 | 7.0 | 7.0 |
| 750 | 5.6 | 2.4 | 5.6 | 5.6 | 4.8 |
| 1000 | 4.2 | 4.3 | 4.2 | 4.0 | 2.7 |
| 1250 | 3.4 | 6.7 | 3.4 | 2.6 | 1.7 |
| 1500 | 2.8 | 9.6 | 2.4 | 1.8 | 1.2 |
| 1750 | 2.4 | 13.3 | 1.8 | 1.3 | 0.9 |
| 2000 | 2.1 | 17.2 | 1.4 | 1.0 | 0.7 |
| 2500 | 1.7 | 27.0 | 0.9 | 0.6 | 0.5 |
| 3000 | 1.4 | 39.1 | 0.6 | 0.5 | 0.3 |
| 3500 | 1.2 | 52.0 | 0.5 | 0.3 | 0.2 |
| 4000 | 1.0 | 68.7 | 0.3 | 0.3 | 0.2 |
| 4500 | 0.9 | 85.1 | 0.3 | 0.2 | NR |
| 5000 | 0.8 | 105.0 | 0.2 | NR | NR |
| 6000 | 0.7 | 151.2 | NR | NR | NR |

P4520 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 10.3 | 34.1 | 31.1 | 26.8 | 22.2 |
| 750 | 9.7 | 30.9 | 26.8 | 21.1 | 15.8 |
| 1000 | 8.5 | 24.9 | 19.3 | 12.8 | 8.9 |
| 1250 | 6.9 | 18.9 | 12.8 | 8.2 | ** |
| 1500 | 5.6 | 13.5 | 8.9 | ** | ** |
| 1750 | 4.6 | 9.9 | 6.5 | ** | ** |

P4521 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 18.8 | 74.9 | 72.8 | 68.3 | 63.1 |
| 750 | 18.5 | 72.5 | 68.3 | 61.8 | 54.7 |
| 1000 | 17.8 | 66.2 | 59.5 | 49.8 | 40.1 |
| 1250 | 16.8 | 58.9 | 49.8 | 37.8 | 27.0 |
| 1500 | 15.5 | 51.1 | 40.1 | 27.0 | 18.8 |
| 1750 | 14.0 | 43.1 | 31.1 | 19.9 | 13.8 |
| 2000 | 12.2 | 35.5 | 23.8 | 15.2 | ** |
| 2500 | 9.3 | 23.0 | 15.2 | ** | ** |
| 3000 | ** | 16.0 | ** | ** | ** |

P4520/P4521 - ELEMENTS OF SECTION (METRIC)

| Parameter | P4100 | P4101 |
|------------------------|----------------------|-----------------------|
| Area of Section | 2.48 cm ² | 4.97 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 1.29 cm ⁴ | 6.08 cm ⁴ |
| Section Modulus (S) | 1.05 cm ³ | 2.95 cm ³ |
| Radius of Gyration (r) | 0.72 cm | 1.11 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 5.74 cm ⁴ | 11.53 cm ⁴ |
| Section Modulus (S) | 2.79 cm ³ | 5.57 cm ³ |
| Radius of Gyration (r) | 1.52 cm | 1.53 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

1 5/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

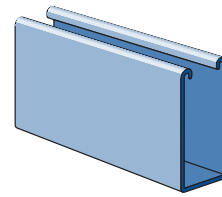
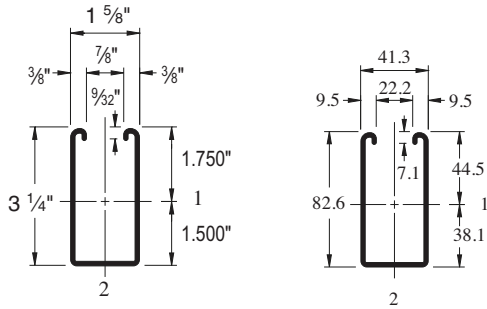
Concrete Inserts

Solar

Unipier®

P5000

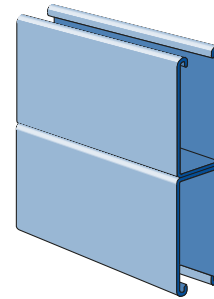
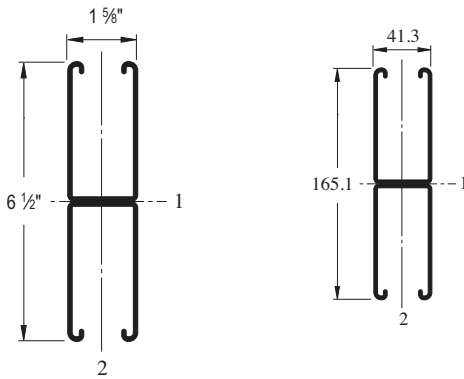
DF GR PL PG



Wt/100 Ft: 305 Lbs (454 kg/100 m)
Allowable Moment 15,770 In-Lbs (1,780 N·m)
12 Gauge Nominal Thickness .105" (2.7mm)

P5001

DF GR PG



Wt/100 Ft: 610 Lbs (907 kg/100 m)
Allowable Moment 48,180 In-Lbs (5,440 N·m)
12 Gauge Nominal Thickness .105" (2.7mm)

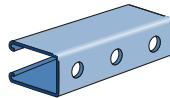
P5000 HS

GR PG

P5000 KO

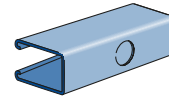
GR PG

9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



Wt/100 Ft: 300 Lbs (446 kg/100 m)

7/8" (22.2) Knockouts
6" (152.4) on Center



Wt/100 Ft: 305 Lbs (454 kg/100 m)

P5000 SL

GR PG

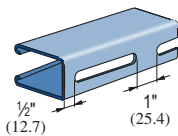
P5000 T

DF GR PG

P5000 WT

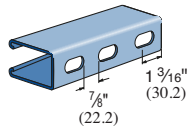
DF GR HG PG PL

Slots are
3" (76.2) x 1 1/2" (10.3)
4" (101.6) on Center



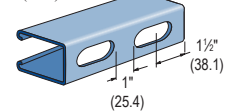
Wt/100 Ft: 300 Lbs (446 kg/100 m)

Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (50.8) on Center



Wt/100 Ft: 300 Lbs (446 kg/100 m)

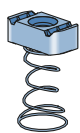
Slots are
2" (50.8) x 1 1/16" (17.5)
3" (76.2) on Center



Wt/100 Ft: 300 Lbs (446 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P5506-0832
P5506-1024
P5506-1420
P5507
P5508
P5509
P5510



P1006T1420
P1008T
P1010T



P1012
P1023
P1024



P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3010



P3016-0632
P3016-0832
P3016-1024
P3016-1420

Channel Finishes: DF, PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'

P5000 - BEAM LOADING

| 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 |
| 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 |

P5001 - BEAM LOADING

| 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 |
| 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 |

P5000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P5001 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P5000/P5001 - ELEMENTS OF SECTION

| Parameter | P5000 | | P5001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.897 | In ² | 1.793 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 1.098 | In ⁴ | 6.227 | In ⁴ |
| Section Modulus (S) | 0.627 | In ³ | 1.916 | In ³ |
| Radius of Gyration (r) | 1.107 | In | 1.864 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.433 | In ⁴ | 0.866 | In ⁴ |
| Section Modulus (S) | 0.533 | In ³ | 1.066 | In ³ |
| Radius of Gyration (r) | 0.695 | In | 0.695 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

"KO" Series 95% "T" Series 85%
 "HS" Series 90% "SL" Series 85%
 "WT" Series 85%

- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P5000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 23.8 | 1 | 23.8 | 23.8 | 23.8 |
| 750 | 19.0 | 1 | 19.0 | 19.0 | 19.0 |
| 1,000 | 14.2 | 2 | 14.2 | 14.2 | 14.2 |
| 1,250 | 11.4 | 3 | 11.4 | 11.4 | 11.4 |
| 1,500 | 9.5 | 5 | 9.5 | 9.5 | 8.8 |
| 1,750 | 8.1 | 6 | 8.1 | 8.1 | 6.5 |
| 2,000 | 7.1 | 8 | 7.1 | 7.1 | 4.9 |
| 2,500 | 5.7 | 12 | 5.7 | 4.8 | 3.2 |
| 3,000 | 4.8 | 18 | 4.4 | 3.3 | 2.2 |
| 3,500 | 4.1 | 25 | 3.2 | 2.4 | 1.6 |
| 4,000 | 3.6 | 32 | 2.5 | 1.9 | 1.2 |
| 4,500 | 3.2 | 40 | 2.0 | 1.5 | 1.0 |
| 5,000 | 2.8 | 50 | 1.6 | 1.2 | 0.8 |
| 6,000 | 2.4 | 71 | 1.1 | 0.8 | 0.5 |

P5001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 30.6 * | 0 | 30.6 * | 30.6 * | 30.6 * |
| 750 | 30.6 * | 0 | 30.6 * | 30.6 * | 30.6 * |
| 1,000 | 30.6 * | 1 | 30.6 * | 30.6 * | 30.6 * |
| 1,250 | 30.6 * | 1 | 30.6 * | 30.6 * | 30.6 * |
| 1,500 | 29.0 | 2 | 29.0 | 29.0 | 29.0 |
| 1,750 | 24.9 | 3 | 24.9 | 24.9 | 24.9 |
| 2,000 | 21.8 | 4 | 21.8 | 21.8 | 21.8 |
| 2,500 | 17.4 | 7 | 17.4 | 17.4 | 17.4 |
| 3,000 | 14.5 | 10 | 14.5 | 14.5 | 12.5 |
| 3,500 | 12.5 | 13 | 12.5 | 12.5 | 9.2 |
| 4,000 | 10.9 | 17 | 10.9 | 10.5 | 7.0 |
| 4,500 | 9.7 | 22 | 9.7 | 8.3 | 5.6 |
| 5,000 | 8.7 | 27 | 8.7 | 6.8 | 4.5 |
| 6,000 | 7.2 | 39 | 6.2 | 4.7 | 3.1 |

P5000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 25.2 | 75.5 | 68.1 | 58.0 | 48.0 |
| 750 | 23.5 | 67.5 | 58.0 | 45.7 | 35.0 |
| 1,000 | 19.4 | 53.7 | 41.9 | 29.3 | 21.8 |
| 1,250 | 15.4 | 41.0 | 29.3 | 20.5 | 15.7 |
| 1,500 | 12.4 | 30.5 | 21.8 | 15.7 | 12.3 |
| 1,750 | 10.2 | 23.8 | 17.3 | 12.8 | 10.2 |
| 2,000 | 8.5 | 19.3 | 14.4 | 10.8 | 8.7 |
| 2,250 | 7.3 | 16.3 | 12.3 | 9.4 | 7.6 |
| 2,500 | 6.5 | 14.1 | 10.8 | 8.3 | 6.9 |
| 2,750 | 5.8 | 12.4 | 9.6 | 7.5 | 6.2 |

P5001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 47.5 | 174.9 | 169.7 | 161.7 | 153.2 |
| 750 | 46.8 | 169.2 | 161.7 | 150.9 | 139.8 |
| 1,000 | 45.6 | 158.2 | 147.2 | 132.6 | 118.8 |
| 1,250 | 44.0 | 146.3 | 132.6 | 115.6 | 101.2 |
| 1,500 | 41.6 | 134.3 | 118.8 | 101.2 | 87.4 |
| 1,750 | 38.9 | 122.9 | 106.6 | 89.4 | 76.8 |
| 2,000 | 36.3 | 112.5 | 96.2 | 80.0 | 61.2 |
| 2,250 | 33.9 | 103.2 | 87.4 | 69.6 | 48.4 |
| 2,500 | 31.6 | 95.0 | 80.0 | 56.4 | 39.1 |
| 2,750 | 29.3 | 87.8 | 72.9 | 46.6 | 32.4 |

P5000/P5001 - ELEMENTS OF SECTION (METRIC)

| Parameter | P5000 | P5001 |
|------------------------|-----------------------|------------------------|
| Area of Section | 5.78 cm ² | 11.57 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 45.70 cm ⁴ | 259.17 cm ⁴ |
| Section Modulus (S) | 10.28 cm ³ | 31.40 cm ³ |
| Radius of Gyration (r) | 2.81 cm | 4.73 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 18.02 cm ⁴ | 36.04 cm ⁴ |
| Section Modulus (S) | 8.73 cm ³ | 17.46 cm ³ |
| Radius of Gyration (r) | 1.77 cm | 1.77 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

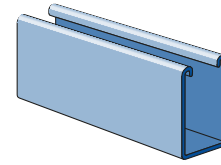
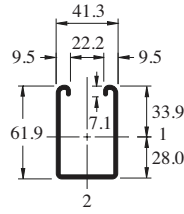
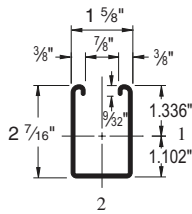
NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | | | |
|-------------------|-----|-------------------|-----|
| "KO" Series..... | 95% | "T" Series | 85% |
| "HS" Series | 90% | "SL" Series | 85% |
| "WT" Series..... | 85% | | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P5500

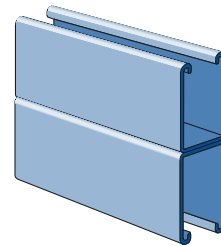
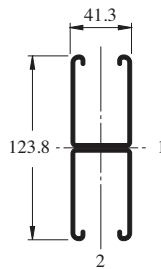
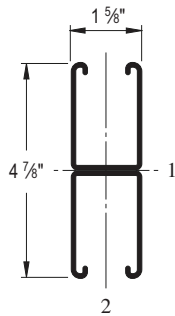
GR PG



Wt/100 Ft: 247 Lbs (367 kg/100 m)
 Allowable Moment 9,820 In-Lbs (1,110 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P5501

GR PG



Wt/100 Ft: 494 Lbs (734 kg/100 m)
 Allowable Moment 28,940 In-Lbs (3,270 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P5500 HS

GR PG

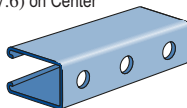
P5500 KO

GR PG

P5500 SL

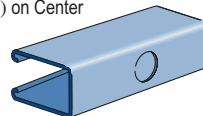
GR PG

9/16" (14.3) Dia. Holes
 1 7/8" (47.6) on Center



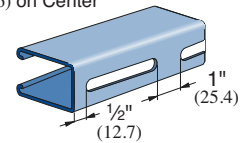
Wt/100 Ft: 242 Lbs (360 kg/100 m)

7/8" (22.2) Knockouts
 6" (152.4) on Center



Wt/100 Ft: 247 Lbs (368 kg/100 m)

Slots are
 3" (76.2) x 13/32" (10.3)
 4" (101.6) on Center



Wt/100 Ft: 242 Lbs (360 kg/100 m)

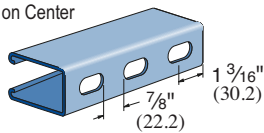
P5500 T

GR PG

P5500 WT

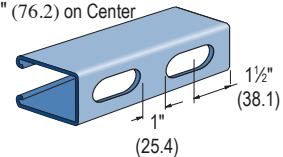
DF GR HG PG PL

Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Center



Wt/100 Ft: 242 Lbs (360 kg/100 m)

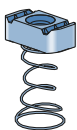
Slots are
 2" (50.8) x 1 1/16" (17.5)
 3" (76.2) on Center



Wt/100 Ft: 242 Lbs (360 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P5506-0832
 P5506-1024
 P5506-1420
 P5507
 P5508
 P5509
 P5510



P1006T1420
 P1008T
 P1010T



P1012
 P1023
 P1024



P3006-0832
 P3006-1024
 P3006-1420
 P3007
 P3008
 P3009
 P3010



P3016-0632
 P3016-0832
 P3016-1024
 P3016-1420

Channel Finishes: PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'



P5500 - BEAM LOADING

| 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 |
| 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 |

P5501 - BEAM LOADING

| 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 |
| 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 |

P5500 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P5501 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P5500/P5501 - ELEMENTS OF SECTION

| Parameter | P5500 | | P5501 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.726 | In ² | 1.452 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.522 | In ⁴ | 2.805 | In ⁴ |
| Section Modulus (S) | 0.390 | In ³ | 1.151 | In ³ |
| Radius of Gyration (r) | 0.848 | In | 1.390 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.334 | In ⁴ | 0.669 | In ⁴ |
| Section Modulus (S) | 0.411 | In ³ | 0.823 | In ³ |
| Radius of Gyration (r) | 0.679 | In | 0.679 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | |
|----------------------|----------------------|
| "KO" Series.....95% | "T" Series85% |
| "HS" Series90% | "SL" Series85% |
| "WT" Series.....85% | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P5500 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 14.8 | 1 | 14.8 | 14.8 | 14.8 |
| 750 | 11.8 | 1 | 11.8 | 11.8 | 11.8 |
| 1,000 | 8.9 | 3 | 8.9 | 8.9 | 8.9 |
| 1,250 | 7.1 | 4 | 7.1 | 7.1 | 6.1 |
| 1,500 | 5.9 | 6 | 5.9 | 5.9 | 4.2 |
| 1,750 | 5.1 | 8 | 5.1 | 4.6 | 3.1 |
| 2,000 | 4.5 | 10 | 4.5 | 3.5 | 2.4 |
| 2,500 | 3.6 | 16 | 3.0 | 2.3 | 1.5 |
| 3,000 | 3.0 | 24 | 2.1 | 1.6 | 1.1 |
| 3,500 | 2.5 | 32 | 1.6 | 1.2 | 0.8 |
| 4,000 | 2.2 | 42 | 1.2 | 0.9 | 0.6 |
| 4,500 | 2.0 | 53 | 0.9 | 0.7 | 0.4 |
| 5,000 | 1.8 | 66 | 0.8 | 0.6 | 0.4 |
| 6,000 | 1.5 | 94 | 0.5 | 0.4 | 0.3 |

P5501 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 23.2 * | 0 | 23.2 * | 23.2 * | 23.2 * |
| 750 | 23.2 * | 1 | 23.2 * | 23.2 * | 23.2 * |
| 1,000 | 23.2 * | 1 | 23.2 * | 23.2 * | 23.2 * |
| 1,250 | 20.9 | 2 | 20.9 | 20.9 | 20.9 |
| 1,500 | 17.4 | 3 | 17.4 | 17.4 | 17.4 |
| 1,750 | 14.9 | 4 | 14.9 | 14.9 | 14.9 |
| 2,000 | 13.1 | 6 | 13.1 | 13.1 | 12.7 |
| 2,500 | 10.5 | 9 | 10.5 | 10.5 | 8.1 |
| 3,000 | 8.7 | 13 | 8.7 | 8.5 | 5.6 |
| 3,500 | 7.5 | 18 | 7.5 | 6.2 | 4.1 |
| 4,000 | 6.5 | 23 | 6.3 | 4.8 | 3.2 |
| 4,500 | 5.8 | 29 | 5.0 | 3.7 | 2.5 |
| 5,000 | 5.2 | 36 | 4.1 | 3.0 | 2.0 |
| 6,000 | 4.4 | 52 | 2.8 | 2.1 | 1.4 |

P5500 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 20.7 | 61.9 | 56.4 | 48.8 | 41.6 |
| 750 | 19.6 | 55.9 | 48.8 | 39.8 | 31.9 |
| 1,000 | 16.7 | 45.7 | 37.0 | 27.4 | 21.0 |
| 1,250 | 13.8 | 36.4 | 27.4 | 19.9 | 15.7 |
| 1,500 | 11.5 | 28.5 | 21.0 | 15.7 | 12.6 |
| 1,750 | 9.8 | 22.6 | 17.1 | 13.0 | 10.6 |
| 2,000 | 8.6 | 18.9 | 14.5 | 11.2 | 9.1 |
| 2,250 | 7.6 | 16.2 | 12.6 | 9.8 | 8.0 |
| 2,500 | 6.9 | 14.2 | 11.2 | 8.7 | 7.2 |
| 2,750 | 6.2 | 12.7 | 10.1 | 7.9 | 6.4 |

P5501 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 38.2 | 141.5 | 137.4 | 131.3 | 125.0 |
| 750 | 37.1 | 132.1 | 125.0 | 115.6 | 107.1 |
| 1,000 | 35.9 | 121.8 | 112.7 | 101.9 | 93.1 |
| 1,250 | 34.3 | 112.0 | 101.9 | 91.2 | 76.4 |
| 1,500 | 32.3 | 103.2 | 93.1 | 76.4 | 56.5 |
| 1,750 | 30.2 | 95.7 | 83.4 | 59.7 | 41.5 |
| 2,000 | 27.3 | 89.5 | 69.5 | 45.8 | 31.8 |
| 2,500 | 24.2 | 79.0 | 56.5 | 36.2 | 25.1 |
| 3,000 | 21.3 | 67.9 | 45.8 | 29.3 | ** |
| 3,500 | 16.7 | 48.2 | 31.8 | ** | ** |
| 4,000 | 13.2 | 35.4 | 23.3 | ** | ** |

P5500/P5501 - ELEMENTS OF SECTION (METRIC)

| Parameter | P5500 | P5501 |
|------------------------|-----------------------|------------------------|
| Area of Section | 4.68 cm ² | 9.37 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 21.71 cm ⁴ | 116.76 cm ⁴ |
| Section Modulus (S) | 6.40 cm ³ | 18.86 cm ³ |
| Radius of Gyration (r) | 2.15 cm | 3.53 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 13.91 cm ⁴ | 27.83 cm ⁴ |
| Section Modulus (S) | 6.74 cm ³ | 13.48 cm ³ |
| Radius of Gyration (r) | 1.72 cm | 1.72 cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 62 for reduction factors for unbraced lengths.
- For pierced channel, multiply beam loads by the following factor:

| | |
|----------------------|----------------------|
| "KO" Series.....95% | "T" Series85% |
| "HS" Series90% | "SL" Series85% |
| "WT" Series.....85% | |
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

1 5/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

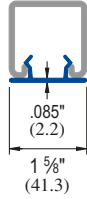
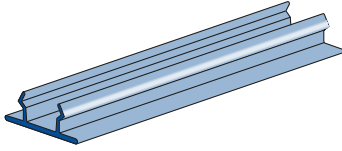
Electrical Fittings

Concrete Inserts

Solar

Unipier®

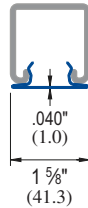
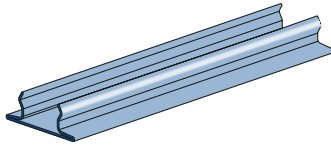
P1184 P



Material: Paintable PVC
Color: Green, Grey
Standard length: 10' (3m)

Wt/100 Ft: 11 Lbs (16.5 kg/100 m)

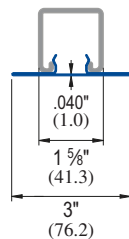
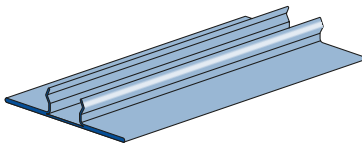
P3184



Finish: GR, PG, PL
Standard length: 10' (3m)

Wt/100 Ft: 47 Lbs (69.9 kg/100 m)

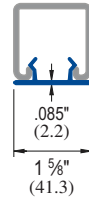
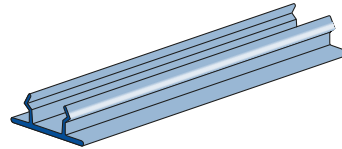
P3184 F



Finish: GR, PG, PL
Standard length: 16' (4.9m)

Wt/100 Ft: 90 Lbs (134 kg/100 m)

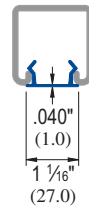
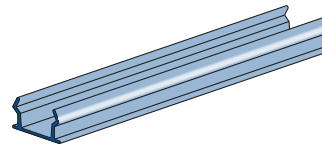
P3184 P



Material : G.E. Noryl® Plastic
Color: Green, Grey and White
Standard length: 10' (3m)

Wt/100 Ft: 9.4 Lbs (14.0 kg/100 m)

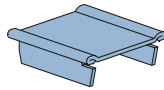
P3712 P



Material: Plastic
Color: Black
Standard length: 10' (3m)
Note: Use with P3170, P3270, and P3370 series concrete insert.

Wt/100 Ft: 5.4 Lbs (8.0 kg/100 m)

P1280

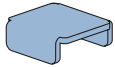


Use with P1000
Material: .060" (1.5)

Wt/100 pcs: 11 Lbs (5.0 Kg.)

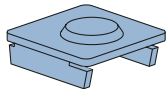
P2407, P3280, P3380

END CAPS



| Part Number | Fits Channel | Wt/100 pcs Lbs (kg) |
|-------------|--------------|---------------------|
| P2407 | P1000 | 10 4.5 |
| P3280 | P3000 | 8 3.6 |
| P3380* | P3300 | 5 2.3 |

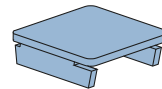
P1280 A, P2280 A



| Part Number | Use With Channel | Wt/100 pcs Lbs (kg) |
|-------------|------------------|---------------------|
| P1280A | P1000 | 11 5.0 |
| P2280A | P2000 | 11 5.0 |

Material: .075" (1.9)

P1180, P2280, P4280, P5280, P5580

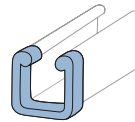


| Part Number | Use With Channel | Wt/100 pcs Lbs (kg) |
|-------------|------------------|---------------------|
| P1180 | P1100 | 12 5.4 |
| P2280 | P2000 | 11 5.0 |
| P4280 | P4000 | 5 2.3 |
| P5280 | P5000 | 22 10.0 |
| P5580 | P5500 | 17 7.7 |

Material: .075" (1.9)

P2859

FRAME CAPS

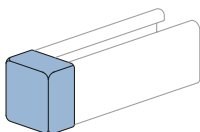


| Part Number* | Use With Channel | Wt/100 pcs Lbs (kg) |
|--------------|------------------|---------------------|
| P2859-10 | P1000 | 12 5.4 |
| P2859-11 | P1001 | 12 5.4 |
| P2859-12 | P3300 | 5 2.3 |
| P2859-13 | P5000 | 22 10.0 |
| P2859-14 | P5500 | 17 7.7 |

* Add color suffix:
GR - Green
WH - White
GY - Grey
"A" series frame caps available

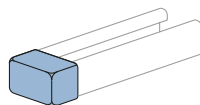
P2860

PLASTIC WHITE END CAPS



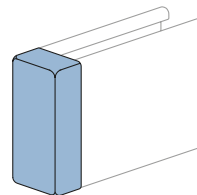
P2860-10

Use with P1000, P1100, P2000 channels & P9000 Telestrut.
Wt/100 pcs 3.4 Lbs (1.5 kg)



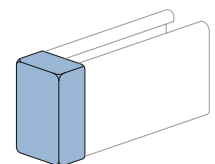
P2860-33

Use with P3300 channel.
Wt/100 pcs 2.5 Lbs (1.1 kg)



P2860-50

Use with P5000 & P1001 channels.
Wt/100 pcs 5 Lbs (2.3 kg)



P2860-55

Use with P5500 channel.
Wt/100 pcs 4.7 Lbs (2.1 kg)



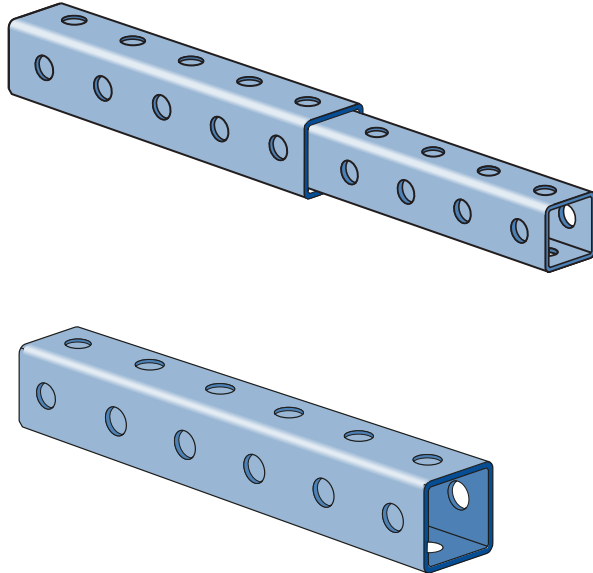
LATERAL BRACING LOAD REDUCTION CHARTS

| Span | | Single Channel | | | | | | | | | | Double Channel | | | | | | | | | | | |
|-----------|-----------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Ft. (m) | In. (cm) | P1000 | P1100 | P2000 | P3000 | P3300 | P4000 | P4100 | P4400 | P4520 | P5000 | P5500 | P1001 | P1101 | P2001 | P3001 | P3301 | P4001 | P4101 | P4401 | P4521 | P5001 | P5501 |
| 2 (0.61) | 24 (61) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.98 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 (0.91) | 36 (91) | 0.94 | 0.89 | 0.88 | 0.96 | 1.00 | 0.94 | 0.98 | 1.00 | 1.00 | 0.85 | 0.89 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 (1.22) | 48 (122) | 0.88 | 0.78 | 0.75 | 0.91 | 1.00 | 0.88 | 0.94 | 0.98 | 1.00 | 0.70 | 0.77 | 1.00 | 0.98 | 0.98 | 1.00 | 1.00 | 0.98 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 |
| 5 (1.52) | 60 (152) | 0.82 | 0.68 | 0.61 | 0.88 | 0.98 | 0.83 | 0.91 | 0.96 | 1.00 | 0.55 | 0.67 | 0.97 | 0.93 | 0.92 | 0.98 | 1.00 | 0.93 | 0.96 | 1.00 | 1.00 | 0.90 | 0.93 |
| 6 (1.83) | 72 (183) | 0.78 | 0.59 | 0.48 | 0.84 | 0.97 | 0.79 | 0.89 | 0.94 | 0.98 | 0.44 | 0.58 | 0.93 | 0.87 | 0.85 | 0.95 | 0.97 | 0.88 | 0.92 | 0.97 | 0.97 | 0.83 | 0.87 |
| 7 (2.13) | 84 (213) | 0.75 | 0.52 | 0.41 | 0.82 | 0.96 | 0.75 | 0.86 | 0.92 | 0.97 | 0.38 | 0.51 | 0.89 | 0.82 | 0.78 | 0.92 | 0.95 | 0.83 | 0.89 | 0.95 | 0.95 | 0.76 | 0.81 |
| 8 (2.44) | 96 (244) | 0.71 | 0.47 | 0.35 | 0.79 | 0.94 | 0.72 | 0.84 | 0.91 | 0.96 | 0.33 | 0.46 | 0.85 | 0.76 | 0.71 | 0.88 | 0.92 | 0.79 | 0.85 | 0.92 | 0.92 | 0.68 | 0.76 |
| 9 (2.74) | 108 (274) | 0.69 | 0.43 | 0.32 | 0.77 | 0.93 | 0.69 | 0.82 | 0.89 | 0.95 | 0.30 | 0.42 | 0.81 | 0.70 | 0.64 | 0.85 | 0.90 | 0.74 | 0.81 | 0.90 | 0.90 | 0.61 | 0.70 |
| 10 (3.05) | 120 (305) | 0.66 | 0.40 | 0.29 | 0.75 | 0.92 | 0.66 | 0.80 | 0.87 | 0.94 | 0.28 | 0.40 | 0.78 | 0.65 | 0.57 | 0.82 | 0.87 | 0.69 | 0.78 | 0.87 | 0.87 | 0.54 | 0.64 |
| 12 (3.66) | 144 (366) | 0.61 | 0.36 | 0.25 | 0.70 | 0.89 | 0.60 | 0.76 | 0.84 | 0.91 | 0.24 | 0.36 | 0.70 | 0.54 | 0.45 | 0.76 | 0.82 | 0.60 | 0.71 | 0.82 | 0.83 | 0.43 | 0.53 |
| 14 (4.27) | 168 (427) | 0.55 | 0.32 | 0.23 | 0.66 | 0.86 | 0.55 | 0.73 | 0.81 | 0.89 | 0.22 | 0.32 | 0.63 | 0.45 | 0.38 | 0.70 | 0.78 | 0.51 | 0.64 | 0.77 | 0.78 | 0.35 | 0.45 |
| 16 (4.88) | 192 (488) | 0.51 | 0.30 | 0.21 | 0.62 | 0.84 | 0.50 | 0.69 | 0.78 | 0.87 | 0.21 | 0.30 | 0.56 | 0.39 | 0.32 | 0.64 | 0.73 | 0.44 | 0.57 | 0.72 | 0.73 | 0.30 | 0.39 |
| 18 (5.49) | 216 (549) | 0.47 | 0.28 | 0.19 | 0.58 | 0.81 | 0.47 | 0.65 | 0.75 | 0.84 | 0.19 | 0.28 | 0.49 | 0.34 | 0.28 | 0.58 | 0.68 | 0.39 | 0.50 | 0.67 | 0.68 | 0.27 | 0.34 |
| 20 (6.10) | 240 (610) | 0.44 | 0.26 | 0.18 | 0.54 | 0.78 | 0.43 | 0.61 | 0.72 | 0.82 | 0.18 | 0.26 | 0.44 | 0.31 | 0.25 | 0.52 | 0.63 | 0.35 | 0.45 | 0.62 | 0.63 | 0.24 | 0.30 |

BEARING LOADS ON UNISTRUT CHANNEL

| Channel | Bearing Length 1½" (41 mm) Maximum Allowable Loads Lbs (kN) | | Bearing Length 1½" (41 mm) Maximum Allowable Loads Lbs (kN) | | Bearing Length 3¼" (82 mm) Maximum Allowable Loads Lbs (kN) | |
|---------|--|----------------|--|----------------|--|----------------|
| | P1000 | 6,700 29.80 | 3,100 13.79 | 7,700 34.25 | P1100 | 3,500 15.57 |
| P2000 | 2,500 11.12 | 1,200 5.34 | 3,000 13.34 | P3000 | 6,700 29.80 | 7,700 34.25 |
| P3300 | 6,800 30.25 | 3,200 14.23 | 7,800 34.70 | P4000 | 2,600 11.57 | 3,000 13.34 |
| P4100 | 3,500 15.57 | 1,800 8.01 | 4,100 18.24 | P4400 | 7,300 32.47 | 8,400 37.37 |
| P4520 | 7,300 32.47 | 3,400 15.12 | 8,400 37.37 | P5000 | 6,500 28.91 | 7,500 33.36 |
| P5500 | 6,600 29.36 | 3,100 13.79 | 7,600 33.81 | | | |

1½" Channel
 Telestrut
 Nuts & Hardware
 General Fittings
 Pipe/Conduit Supports
 Electrical Fittings
 Concrete Inserts
 Solar
 Unipier®



Telescoping Tube..... 65-67

Specialized Fittings..... 68

Connection Methods..... 69

Post Bases..... 68-69

Cutting Chart..... 70

MATERIAL

TELESTRUT is accurately and carefully cold formed to size from low-carbon strip steel.

STEEL: PLAIN

12 Ga. (2.7 mm), ASTM A1011 SS GR 33.

STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), ASTM A653 GR 33.

FINISHES

Telestrut is available in:

- Plain (PL)
- Pre-Galvanized (PG)
- Green powder coat (GR)

Fittings are available in:

- Green Powder Coat (GR), conforming to commercial standards for Powder Coating
- Electro-galvanized (EG), conforming to ASTM B633 Type III SC1
- Hot-dipped Galvanized (HG), conforming to ASTM A153
- Plain (PL)

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

DESIGN BOLT TORQUE

| BOLT SIZE | ¼"-20 | ⅝"-18 | ⅜"-16 | ½"-13 | ⅝"-11 | ¾"-10 |
|-------------------------|-------|---------|---------|---------|-----------|-----------|
| Rec.Torque Ft/Lbs (N*m) | 6 (8) | 11 (15) | 19 (26) | 50 (68) | 100 (136) | 125 (170) |
| Max Torque Ft/Lbs (N*m) | 7 (9) | 15 (20) | 25 (34) | 70 (95) | 125 (170) | 135 (183) |

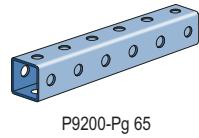
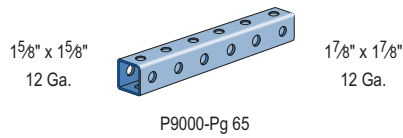
DESIGN LOAD

Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD.

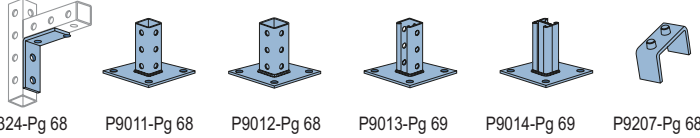
| Type of Load | Safety Factor to Yield Strength |
|--------------|---------------------------------|
| Beam Loads | 1.67 |
| Column Load | 1.80 |



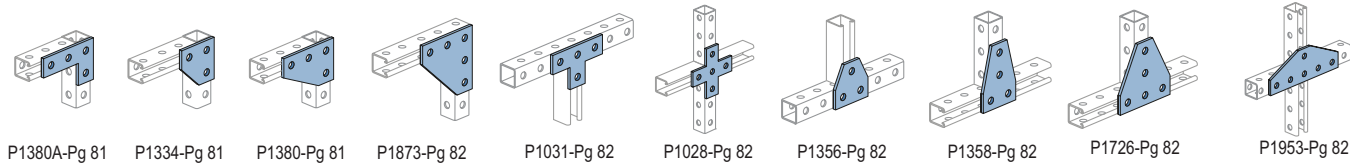
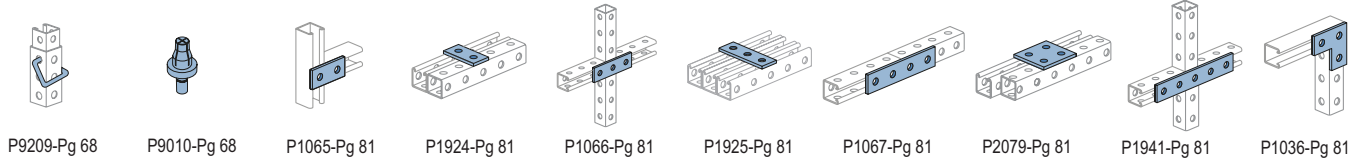
Telestrut Telescoping Tubing



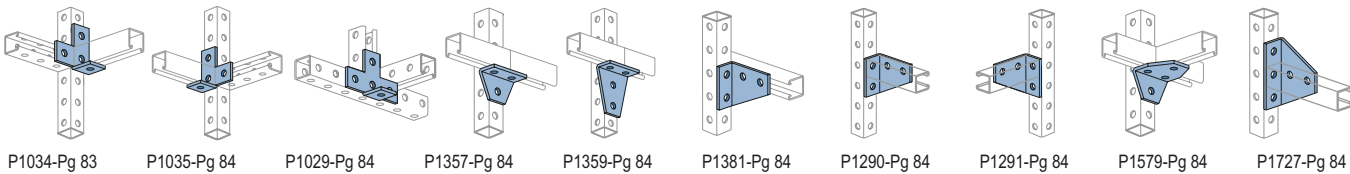
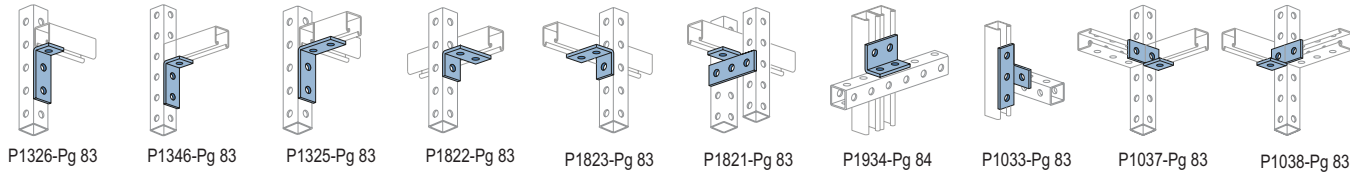
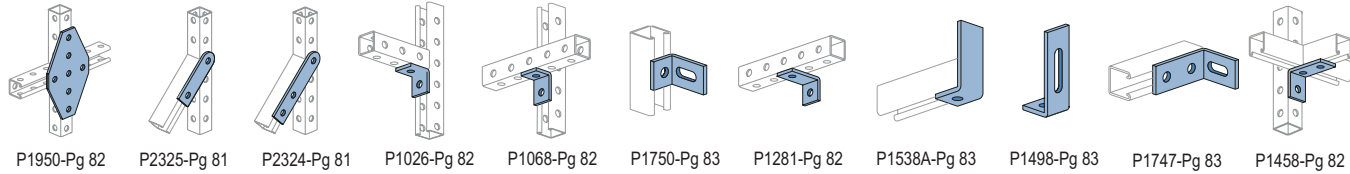
Special Fittings and Post Bases for Telestrut Telescoping Tubing



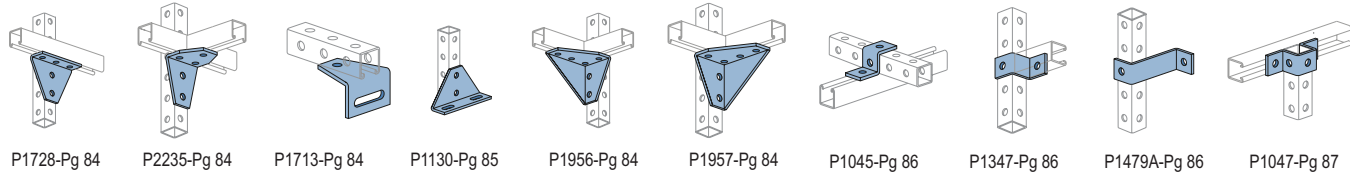
Standard 1 5/8" - Flat Plate Fittings



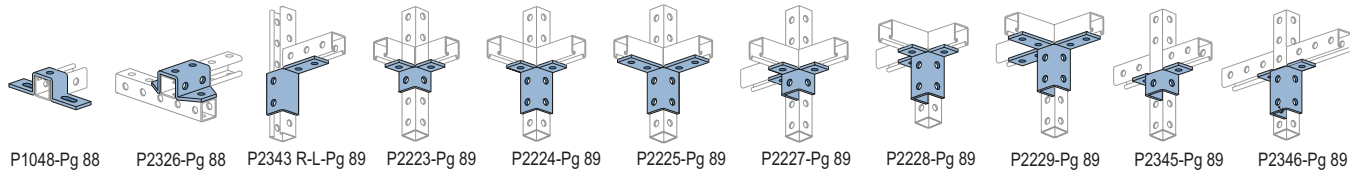
Standard 1 5/8" - Ninety Degree Fittings



Standard 1 5/8" - "Z" and "U" Shape Fittings

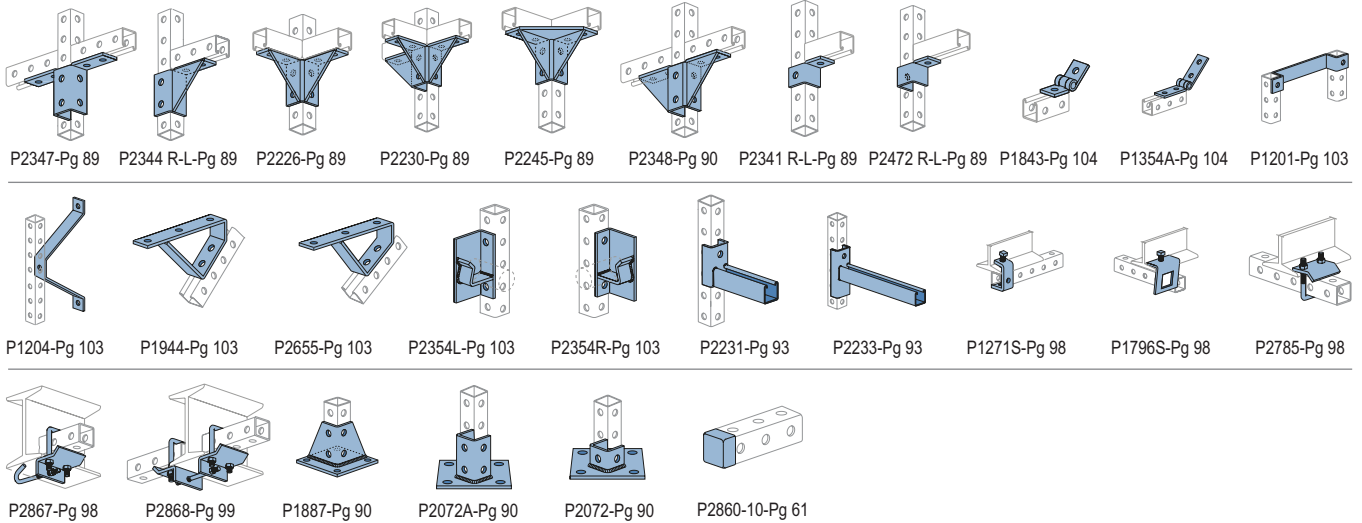


Standard 1 5/8" - Wing Shape Fittings



Standard 1 5/8" Metal Framing – Wing Shape Fittings

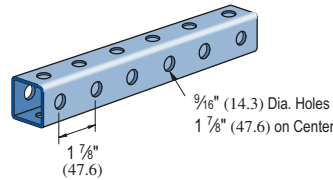
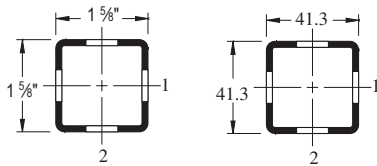
Standard 1 5/8" – Misc. Fittings



Many of the standard metal framing components are compatible with the Telestrut telescoping tubing. Refer to the appropriate page in other sections of the catalog for information on the particular fittings shown here.

P9000

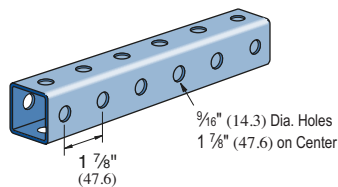
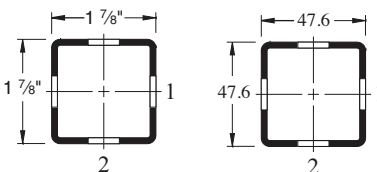
GR PG



Wt/100 Ft: 188 Lbs (279 kg/100 m)
 Allowable Moment 5,140 In-Lbs (580 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

P9200

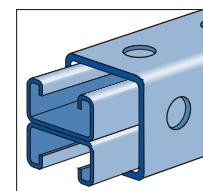
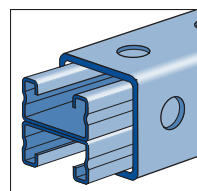
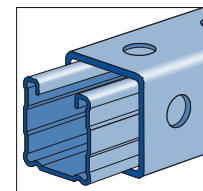
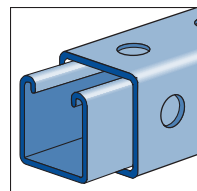
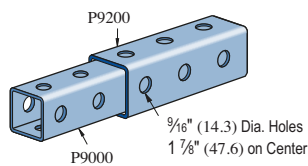
GR PG



Wt/100 Ft: 223 Lbs (331 kg/100 m)
 Allowable Moment 7,480 In-Lbs (850 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

TELESTRUT'S TELESCOPING POWER

Telestrut can be combined with metal framing channel



Note: Will not telescope with GR or HG finish



P9000 - BEAM LOADING

| 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 |
| 24 | 1,710 | 0.06 | 1,710 | 1,710 | 1,710 |
| 36 | 1,140 | 0.14 | 1,140 | 1,140 | 810 |
| 48 | 860 | 0.25 | 860 | 680 | 450 |
| 60 | 690 | 0.40 | 580 | 440 | 290 |
| 72 | 570 | 0.57 | 400 | 300 | 200 |
| 84 | 490 | 0.77 | 300 | 220 | 150 |
| 96 | 430 | 1.01 | 230 | 170 | 110 |
| 108 | 380 | 1.27 | 180 | 130 | 90 |
| 120 | 340 | 1.56 | 150 | 110 | 70 |
| 144 | 290 | 2.30 | 100 | 80 | 50 |
| 168 | 240 | 3.02 | 70 | 60 | 40 |
| 192 | 210 | 3.95 | 60 | 40 | NR |
| 216 | 190 | 5.09 | 40 | NR | NR |
| 240 | 170 | 6.24 | 40 | NR | NR |

P9200 - BEAM LOADING

| 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 |
| 24 | 2,490 | 0.05 | 2,490 | 2,490 | 2,490 |
| 36 | 1,660 | 0.12 | 1,660 | 1,660 | 1,350 |
| 48 | 1,250 | 0.22 | 1,250 | 1,140 | 760 |
| 60 | 1,000 | 0.34 | 980 | 730 | 490 |
| 72 | 830 | 0.49 | 680 | 510 | 340 |
| 84 | 710 | 0.67 | 500 | 370 | 250 |
| 96 | 620 | 0.87 | 380 | 290 | 190 |
| 108 | 550 | 1.10 | 300 | 230 | 150 |
| 120 | 500 | 1.37 | 240 | 180 | 120 |
| 144 | 420 | 1.98 | 170 | 130 | 80 |
| 168 | 360 | 2.70 | 120 | 90 | 60 |
| 192 | 310 | 3.47 | 100 | 70 | 50 |
| 216 | 280 | 4.47 | 80 | 60 | NR |
| 240 | 250 | 5.47 | 60 | 50 | NR |

P9000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 3,640 | 8,730 | 8,570 | 8,330 | 8,040 |
| 36 | 3,540 | 8,360 | 8,040 | 7,530 | 6,950 |
| 48 | 3,400 | 7,880 | 7,340 | 6,530 | 5,660 |
| 60 | 3,210 | 7,290 | 6,530 | 5,440 | 4,360 |
| 72 | 2,990 | 6,640 | 5,660 | 4,360 | 3,160 |
| 84 | 2,730 | 5,940 | 4,790 | 3,340 | 2,320 |
| 96 | 2,430 | 5,220 | 3,940 | 2,560 | 1,780 |
| 108 | 2,110 | 4,520 | 3,160 | 2,020 | 1,400 |
| 120 | 1,820 | 3,840 | 2,560 | 1,640 | ** |
| 144 | 1,390 | 2,690 | 1,780 | ** | ** |

P9200 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 4,620 | 11,120 | 10,980 | 10,740 | 10,460 |
| 36 | 4,530 | 10,770 | 10,460 | 9,950 | 9,370 |
| 48 | 4,390 | 10,300 | 9,760 | 8,940 | 8,030 |
| 60 | 4,220 | 9,720 | 8,940 | 7,800 | 6,590 |
| 72 | 4,000 | 9,050 | 8,030 | 6,590 | 5,180 |
| 84 | 3,750 | 8,320 | 7,080 | 5,410 | 3,890 |
| 96 | 3,460 | 7,560 | 6,110 | 4,290 | 2,980 |
| 108 | 3,140 | 6,770 | 5,180 | 3,390 | 2,360 |
| 120 | 2,790 | 5,990 | 4,290 | 2,750 | 1,910 |
| 144 | 2,170 | 4,510 | 2,980 | 1,910 | ** |
| 168 | 1,720 | 3,320 | 2,190 | ** | ** |

P9000/P9200 - ELEMENTS OF SECTION

| Parameter | P9000 | | P9200 | |
|------------------------|-------|-----------------|-------|-----------------|
| | | | | |
| Area of Section | 0.387 | In ² | 0.489 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.166 | In ⁴ | 0.279 | In ⁴ |
| Section Modulus (S) | 0.205 | In ³ | 0.297 | In ³ |
| Radius of Gyration (r) | 0.655 | In | 0.755 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.166 | In ⁴ | 0.279 | In ⁴ |
| Section Modulus (S) | 0.205 | In ³ | 0.297 | In ³ |
| Radius of Gyration (r) | 0.655 | In | 0.755 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
4. Deduct Telestrut weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.

P9000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|---------------|----------------|
| | | | Span/180 kN | Span/z0 kN | Span/360 kN |
| 600 | 7.7 | 2 | 7.7 | 7.7 | 7.7 |
| 750 | 6.2 | 2 | 6.2 | 6.2 | 5.3 |
| 1,000 | 4.7 | 4 | 4.7 | 4.5 | 3.0 |
| 1,250 | 3.7 | 7 | 3.7 | 2.9 | 1.9 |
| 1,500 | 3.1 | 10 | 2.7 | 2.0 | 1.3 |
| 1,750 | 2.7 | 13 | 2.0 | 1.5 | 1.0 |
| 2,000 | 2.3 | 17 | 1.5 | 1.1 | 0.8 |
| 2,500 | 1.9 | 27 | 1.0 | 0.7 | 0.5 |
| 3,000 | 1.6 | 39 | 0.7 | 0.5 | 0.3 |
| 3,500 | 1.3 | 53 | 0.5 | 0.4 | 0.3 |
| 4,000 | 1.2 | 68 | 0.4 | 0.3 | 0.2 |
| 4,500 | 1.0 | 86 | 0.3 | 0.2 | 0.1 |
| 5,000 | 0.9 | 108 | 0.2 | 0.2 | NR |
| 6,000 | 0.8 | 151 | 0.2 | NR | NR |

P9200 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 11.3 | 1 | 11.3 | 11.3 | 11.3 |
| 750 | 9.0 | 2 | 9.0 | 9.0 | 8.9 |
| 1,000 | 6.8 | 4 | 6.8 | 6.8 | 5.0 |
| 1,250 | 5.4 | 6 | 5.4 | 4.8 | 3.2 |
| 1,500 | 4.5 | 8 | 4.5 | 3.3 | 2.2 |
| 1,750 | 3.9 | 11 | 3.3 | 2.4 | 1.6 |
| 2,000 | 3.4 | 15 | 2.5 | 1.9 | 1.2 |
| 2,500 | 2.7 | 23 | 1.6 | 1.2 | 0.8 |
| 3,000 | 2.3 | 34 | 1.1 | 0.8 | 0.6 |
| 3,500 | 1.9 | 45 | 0.8 | 0.6 | 0.4 |
| 4,000 | 1.7 | 60 | 0.6 | 0.5 | 0.3 |
| 4,500 | 1.5 | 76 | 0.5 | 0.4 | 0.3 |
| 5,000 | 1.3 | 92 | 0.4 | 0.3 | 0.2 |
| 6,000 | 1.1 | 132 | 0.3 | 0.2 | NR |

P9000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 16.2 | 38.9 | 38.2 | 37.1 | 35.9 |
| 750 | 16.0 | 38.2 | 37.1 | 35.5 | 33.7 |
| 1,000 | 15.6 | 36.7 | 35.0 | 32.3 | 29.4 |
| 1,250 | 15.0 | 34.8 | 32.3 | 28.6 | 24.6 |
| 1,500 | 14.4 | 32.6 | 29.4 | 24.6 | 19.8 |
| 1,750 | 13.6 | 30.3 | 26.2 | 20.6 | 15.3 |
| 2,000 | 12.7 | 27.8 | 23.0 | 16.8 | 11.7 |
| 2,250 | 11.7 | 25.2 | 19.8 | 13.3 | 9.3 |
| 2,500 | 10.5 | 22.6 | 16.8 | 10.8 | 7.5 |
| 2,750 | 9.3 | 20.0 | 14.0 | 8.9 | 6.2 |

P9200 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 20.6 | 49.5 | 48.9 | 47.9 | 46.6 |
| 750 | 20.4 | 48.8 | 47.9 | 46.3 | 44.4 |
| 1,000 | 20.0 | 47.4 | 45.7 | 43.1 | 40.1 |
| 1,250 | 19.5 | 45.6 | 43.1 | 39.3 | 35.1 |
| 1,500 | 18.8 | 43.5 | 40.1 | 35.1 | 29.9 |
| 1,750 | 18.1 | 41.1 | 36.8 | 30.7 | 24.6 |
| 2,000 | 17.2 | 38.5 | 33.4 | 26.3 | 19.7 |
| 2,250 | 16.2 | 35.7 | 29.9 | 22.1 | 15.6 |
| 2,500 | 15.1 | 32.9 | 26.3 | 18.2 | 12.6 |
| 2,750 | 13.9 | 30.1 | 23.0 | 15.0 | 10.4 |

P9000/P9200 - ELEMENTS OF SECTION (METRIC)

| Parameter | P9000 | | P9200 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 2.50 | cm ² | 3.16 | cm ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 6.92 | cm ⁴ | 11.61 | cm ⁴ |
| Section Modulus (S) | 3.35 | cm ³ | 4.87 | cm ³ |
| Radius of Gyration (r) | 1.66 | cm | 1.92 | cm |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 6.92 | cm ⁴ | 11.61 | cm ⁴ |
| Section Modulus (S) | 3.35 | cm ³ | 4.87 | cm ³ |
| Radius of Gyration (r) | 1.66 | cm | 1.92 | cm |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
4. Deduct Telestrut weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

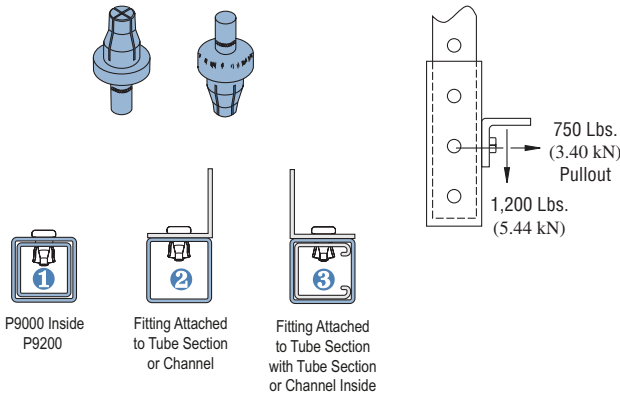
Concrete Inserts

Solar

Unipier®

P9010

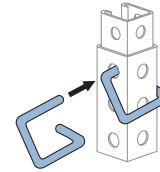
MULTI-GRIP RIVET



Wt/100 pcs: 10 Lbs (4.5 kg)

P9209

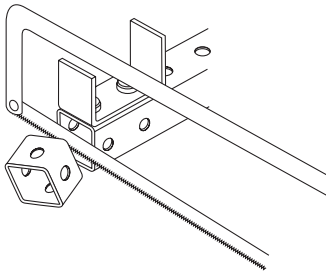
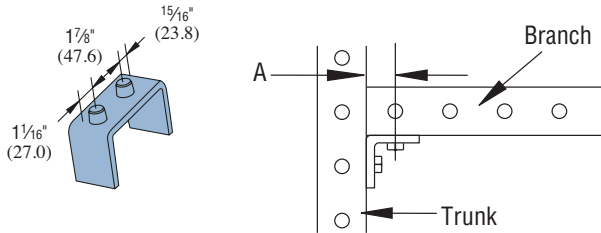
GRAVITY PIN



Wt/100 pcs: 47 Lbs (21.3 kg)

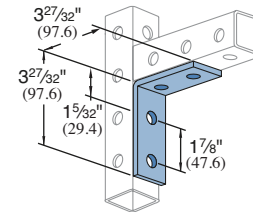
P9207

CUTTING ALIGNMENT GAUGE



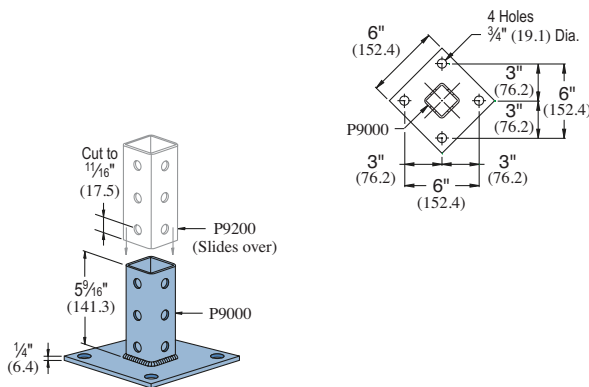
The cutting alignment guide ensures correct cutting of branch members when used with fittings to make connections. Refer to the table of page 70 for the appropriate value for "A" for cutting.

P9324



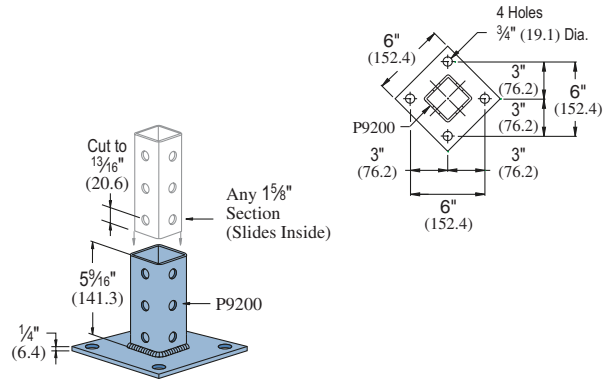
Wt/100 pcs: 78 Lbs (35.0 kg)

P9011



Wt/100 pcs: 332 Lbs (150.7 kg)

P9012

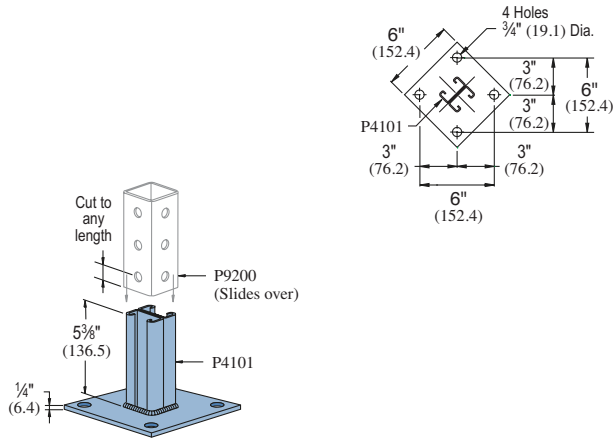


Wt/100 pcs: 340 Lbs (154 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

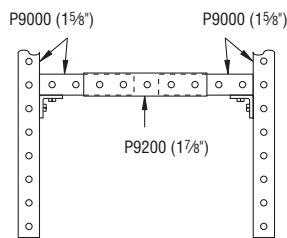
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 1/8" (48mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6mm)

P9014



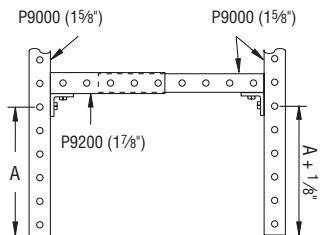
Wt/100 pcs: 303 Lbs (137.5 kg)

PREFERRED THREE-PIECE ASSEMBLY



In most applications, telescoping assemblies should be made from three sections of Telestrut material. The simplest construction utilizes a center section of 1 7/8" material (P9200) into which a 1 5/8" member (P9000) is telescoped from each end. In this way, all intersecting verticals and horizontals are formed from 1 5/8" members assuring maximum compatibility and ease of assembly

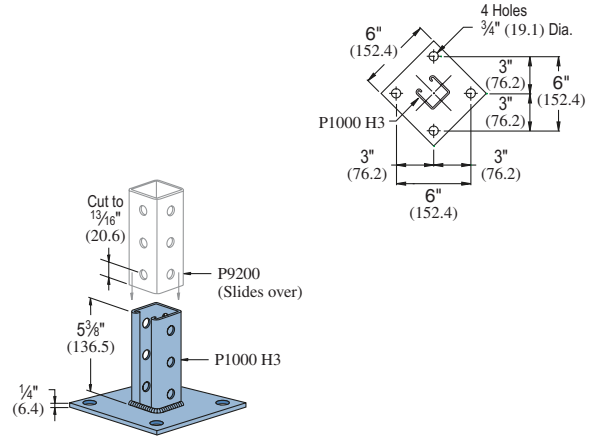
TWO-PIECE ASSEMBLY



Two-piece telescoping assemblies can be used, but special cutting of one or both telescoping members is needed to achieve proper alignment of fittings at the intersecting connections.

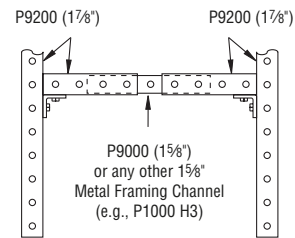
In addition, the right-angle members to which telescoping pieces are attached must be cut according to the illustration at right to insure smooth movement of telescoping members.

P9013



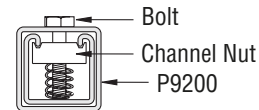
Wt/100 pcs: 318 Lbs (144.7 kg)

ALTERNATE THREE-PIECE ASSEMBLY



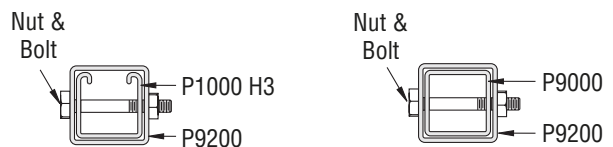
A similar technique is to use a center 1 5/8" center member (P9000) which can be telescoped into 1 7/8" members used at both ends. With this method, all intersecting connections should be formed from compatible 1 7/8" members.

CHANNEL NUT CONNECTION – INFINITE ADJUSTMENT



Any of the 1 5/8" (41.3 mm) channel can be connected to the P9000 using standard channel nuts.

THROUGH-BOLT CONNECTION – INCREMENTAL ADJUSTMENT



Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 3/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6mm)

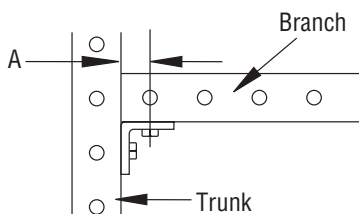


CUTTING CHART

| Fitting | 1½" (41.3) Branch | | 1½" (47.6) Branch | |
|---------|---------------------|---------------------|---------------------|---------------------|
| | Trunk 1½" (41.3) | Trunk 1½" (47.6) | Trunk 1½" (41.3) | Trunk 1½" (47.6) |
| P1026 | A | A | A | B |
| P1028 | A | A | A | B |
| P1029 | † | † | † | † |
| P1031 | A | A | A | B |
| P1033 | B | A | A | B |
| P1034 | † | † | † | † |
| P1035 | A | † | † | † |
| P1036 | A | A | A | B |
| P1037 | † | † | † | † |
| P1038 | † | † | † | † |
| P1045 | † | † | † | † |
| P1047 | † | † | † | † |
| P1048 | † | † | † | † |
| P1049 | † | † | † | † |
| P1050 | † | † | † | † |
| P1065 | A | A | A | B |
| P1066 | A | A | A | B |
| P1068 | C | NR | NR | NR |
| P1130 | A | A | A | C |
| P1131 | A | A | A | C |
| P1290 | A | NR | NR | NR |
| P1291 | A | NR | NR | NR |
| P1325 | A | NR | NR | NR |
| P1326 | C | NR | NR | NR |
| P1334 | A | A | A | B |
| P1346 | A | A | A | B |
| P1347 | C | NR | NR | NR |
| P1354 | D | D | D | D |
| P1356 | A | A | A | B |
| P1357 | A | NR | NR | NR |
| P1358 | A | A | A | B |
| P1359 | A | NR | NR | NR |
| P1380 | A | A | A | B |
| P1380 A | A | A | A | B |
| P1381 | † | † | † | † |
| P1382 | † | † | † | † |
| P1458 | A | NR | NR | NR |
| P1498 | † | † | † | † |
| P1499 | † | † | † | † |
| P1538 A | C | A | A | C |
| P1538 B | C | A | A | C |
| P1538 C | C | A | A | C |
| P1538 D | C | A | A | C |
| P1579 | A | NR | NR | NR |
| P1713 | † | † | † | † |

| Fitting | 1½" (41.3) Branch | | 1½" (47.6) Branch | |
|-----------|---------------------|---------------------|---------------------|---------------------|
| | Trunk 1½" (41.3) | Trunk 1½" (47.6) | Trunk 1½" (41.3) | Trunk 1½" (47.6) |
| P1726 | A | A | A | B |
| P1727 | B | NR | NR | NR |
| P1728 | † | † | † | † |
| P1747 | † | † | † | † |
| P1750 | † | † | † | † |
| P1821 | † | † | † | † |
| P1822 | † | † | † | † |
| P1823 | † | † | † | † |
| P1843 | D | D | D | D |
| P1873 | † | † | † | † |
| P1834 | † | NR | NR | NR |
| P1941 | A | A | A | B |
| P1950 | A | A | A | B |
| P1953 | A | A | A | B |
| P1956 | † | † | † | † |
| P1957 | † | † | † | † |
| P2223 | A | NR | A | NR |
| P2224 | A | NR | A | NR |
| P2225 | A | NR | A | NR |
| P2226 | A | NR | A | NR |
| P2227 | A | NR | A | NR |
| P2228 | A | NR | A | NR |
| P2229 | A | NR | A | NR |
| P2230 | A | NR | A | NR |
| P2235 | A | NR | NR | NR |
| P2245 | A | NR | A | NR |
| P2324 | E | NR | NR | F |
| P2325 | E | A | A | F |
| P2326 | E | NR | NR | F |
| P2341 R-L | A | NR | A | NR |
| P2343 R-L | A | NR | A | NR |
| P2344 R-L | A | NR | A | NR |
| P2345 | A | NR | A | NR |
| P2346 | A | NR | A | NR |
| P2347 | A | NR | A | NR |
| P2348 | A | NR | A | NR |
| P2472 R-L | C | NR | A | NR |
| P2815 | C | NR | NR | NR |
| P2815 D | C | NR | NR | NR |
| P9324 | G | G | G | G |
| P9325 | A | A | A | A |
| P9484 | A | A | A | A |

This table shows the value for "A" when using the specified fitting to connect the branch and trunk. Sizes "A" and "B" can be cut with the cutting alignment gauge (P9207). Other sizes require special cutting. Those marked NR are not recommended.



Legend

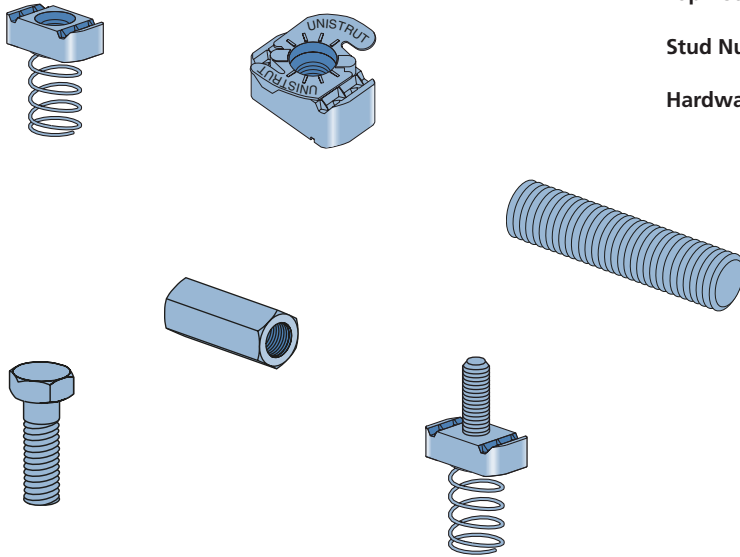
| Designator | "A" In (mm) |
|------------|----------------|
| A | 1½" 27.0 |
| B | 1⅝" 23.8 |
| C | 1⅜" 20.6 |
| D | 1¼" 31.8 |
| E | ¾" * 15.9 |

| Designator | "A" In (mm) |
|------------|--|
| F | ⅞" * 11.1 |
| G | 1⅝" 29.4 |
| NR | Not Recommended |
| † | Special Cutting Req'd (See part dwg) |



NUTS & HARDWARE

| | |
|------------------------------------|-------|
| Channel Nuts With Springs | 73 |
| Channel Nuts Without Springs | 73 |
| Top Retainer Nuts | 73 |
| Stud Nuts | 74 |
| Hardware | 74-76 |



MATERIAL

Unistrut channel nuts are manufactured from mild steel cold rolled coil, and after stamping and machining operations are completed, they are case hardened, assuring positive biting action into the inturred edge of the Unistrut channel.

Screws conform to SAE J429 GR 2 (exceeds ASTM A307). Proof Load 55KSI, Tensile Load 74 KSI

| Bolt Size | Channel Nut ASTM |
|--------------------|----------------------|
| 1/4" & 5/16" | A1011 SS GR33 |
| 3/8", 7/16" & 1/2" | A576 GR1015 Modified |
| 5/8" & 3/4" | A36 or A675 GR60 |
| 7/8" | A36 |

FINISHES

All Channel nuts are available in:

- Electro-galvanized (EG), conforming to ASTM B633 type III SC1
- Hot-dipped galvanized (HG), conforming to ASTM A153
- Plain (PL)
- Unistrut Defender™ (DF), conforming to ASTM A1059

Hardware items such as Hex Nuts bolts and washers are Electro-Galvanized (EG), ASTM B633 Type III SC1 finish, unless otherwise noted.

Many hardware items are also available in stainless steel. Consult factory for ordering information.

THREADS

Unistrut nuts and bolts are manufactured to meet the Unified Screw Thread standard, ANSI B1.1, coarse series (UNC) class 2.

DESIGN 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 (<i>N·m</i>) | 6 (8) | 11 (15) | 19 (26) | 50 (68) | 100 (136) | 125 (170) |
| Max Torque Ft/Lbs (<i>N·m</i>) | 7 (9) | 15 (20) | 25 (34) | 70 (95) | 125 (170) | 135 (183) |

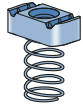
DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

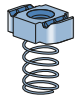
Many Unistrut nuts, bolts and hardware items are also available in standard metric dimensions. Consult factory for ordering information.



Channel Nuts With Spring



P1006 - P1010
Pg 73



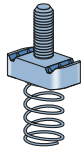
P1012S - P1024S
Pg 73



P4006 - P4010
Pg 73



P5506 - P5510
Pg 73



P2378 - P2382
Pg 74

Channel Nuts Without Spring



P3016
Pg 73



P3006 - P3013
Pg 73



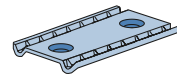
P1012 - P1024
Pg 73



P4012 - P4023
Pg 73



P1006T - P1010T, P4010T
Pg 73



P4908
Pg 73



P1016
Pg 73

Hardware



HHCS
Pg 74



HFMS
Pg 74



HRMS
Pg 74



HSHS
Pg 74



HCSS
Pg 74



HSQN
Pg 75



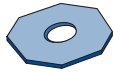
HHXN
Pg 75



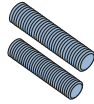
HFLW
Pg 75



HLKW
Pg 75



HOCW
Pg 76



HTHR
Pg 75



HRCN
Pg 75



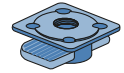
P2486
Pg 76



P2485
Pg 76



P2485K
Pg 76



K1062 - K1064
Pg 76

MAXIMUM ALLOWABLE PULL-OUT AND SLIP LOADS

| Channel | Channel Nut Size-Thread | Gauge | Allowable Pull-Out Strength Lbs (kN) | Resistance to Slip Lbs (kN) | Torque Ft-Lbs (N•m) |
|--|-------------------------|-------|--------------------------------------|-----------------------------|---------------------|
| P1000 P3000 P4400 P4526 P5000 P5500 | 7/8" - 9 | 12 | 2,500 | 1,700 | *125 |
| | | | 11.12 | 7.56 | 170 |
| | 3/4" - 10 | 12 | 2,500 | 1,700 | *125 |
| | | | 11.12 | 7.56 | 170 |
| | 5/8" - 11 | 12 | 2,500 | 1,500 | *100 |
| | | | 11.12 | 6.67 | 135 |
| | 1/2" - 13 | 12 | 2,000 | 1,500 | 50 |
| | | | 8.90 | 6.67 | 70 |
| 7/16" - 14 | 12 | 1,400 | 1,000 | 35 | |
| | | 6.23 | 4.45 | 50 | |
| 3/8" - 16 | 12 | 1,000 | 800 | 19 | |
| | | 4.45 | 3.56 | 25 | |
| 5/16" - 18 | 12 | 800 | 500 | 11 | |
| | | 3.56 | 2.22 | 15 | |
| 1/4" - 20 | 12 | 600 | 300 | 6 | |
| | | 2.67 | 1.33 | 8 | |
| P3300 | 1/2" - 13 | 12 | 1,500 | 1,500 | 50 |
| | | | 6.67 | 6.67 | 70 |
| | 3/8" - 16 | 12 | 1,000 | 800 | 19 |
| | | | 4.45 | 3.56 | 25 |
| 5/16" - 18 | 12 | 800 | 500 | 11 | |
| | | 3.56 | 2.22 | 15 | |
| 1/4" - 20 | 12 | 600 | 300 | 6 | |
| | | 2.67 | 1.33 | 8 | |

| Channel | Channel Nut Size-Thread | Gauge | Allowable Pull-Out Strength Lbs (kN) | Resistance to Slip Lbs (kN) | Torque Ft-Lbs (N•m) |
|---------------|-------------------------|-------|--------------------------------------|-----------------------------|---------------------|
| P1100 & P4100 | 1/2" - 13 | 14 | 1,400 | 1,000 | 50 |
| | | | 6.23 | 4.45 | 70 |
| | 3/8" - 16 | 14 | 1,000 | 750 | 19 |
| | | | 4.45 | 3.34 | 25 |
| 5/16" - 18 | 14 | 800 | 400 | 11 | |
| | | 3.56 | 1.78 | 15 | |
| 1/4" - 20 | 14 | 600 | 300 | 6 | |
| | | 2.67 | 1.33 | 8 | |
| P2000 & P4000 | 1/2" - 13 | 16 | 1,000 | 1,000 | 50 |
| | | | 4.45 | 4.54 | 70 |
| | 3/8" - 16 | 16 | 1,000 | 750 | 19 |
| | | | 4.45 | 3.34 | 25 |
| 5/16" - 18 | 16 | 800 | 400 | 11 | |
| | | 3.56 | 1.78 | 15 | |
| 1/4" - 20 | 16 | 600 | 300 | 6 | |
| | | 2.67 | 1.33 | 8 | |

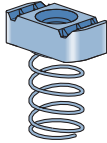
* May require 3/8" or 1/2" thick fitting.

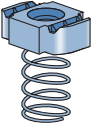
Nut design loads include a minimum safety factor of 3.

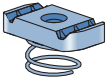
Note: Refer to the Channel Nut Selection Chart on the following two pages for the part number.

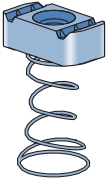
CHANNEL NUT WITH SPRING

EG, HG

|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|----------------------------|
| | P1006-0832 | #8 -32 | 7 (3.2) | P1000, P1100, P2000, P3000 |
| P1006-1024 | #10 -24 | 7 (3.2) | | |
| P1006-1420 | ¼" -20 | 7 (3.2) | | |
| P1007 | ⅝" -18 | 6 (2.7) | | |
| P1008 | ¾" -16 | 10 (4.5) | | |
| P1009 | 7/16" -14 | 9 (4.1) | | |
| P1010 | ½" -13 | 12 (5.4) | | |

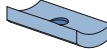
|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|----------------------------|
| | P1012S | ⅝" -11 | 21 (9.5) | P1000, P1100, P2000, P3000 |
| P1023S | ¾" -10 | 21 (9.5) | | |
| P1024S | 7/8" -9 | 21 (9.5) | | |

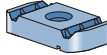
|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|-----------------------------------|
| | P4006-0832 | #8 -32 | 7 (3.2) | P3300, P4000, P4400, P4520, P4100 |
| P4006-1024 | #10 -24 | 7 (3.2) | | |
| P4006-1420 | ¼" -20 | 7 (3.2) | | |
| P4007 | ⅝" -18 | 6 (2.7) | | |
| P4008 | ¾" -16 | 9 (4.1) | | |
| P4009 | 7/16" -14 | 9 (4.1) | | |
| P4010 | ½" -13 | 8 (3.6) | | |


|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|--------------|
| | P5506-0832 | #8 -32 | 7 (3.2) | P5000, P5500 |
| P5506-1024 | #10 -24 | 7 (3.2) | | |
| P5506-1420 | ¼" -20 | 7 (3.2) | | |
| P5507 | ⅝" -18 | 6 (2.7) | | |
| P5508 | ¾" -16 | 10 (4.5) | | |
| P5509 | 7/16" -14 | 10 (4.5) | | |
| P5510 | ½" -13 | 12 (5.4) | | |


CHANNEL NUT WITHOUT SPRING


EG, HG

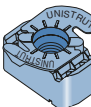
|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|-------------|
| | P3016-0632 | #6 -32 | 2 (0.9) | Any Channel |
| P3016-0832 | #8 -32 | 2 (0.9) | | |
| P3016-1024 | #10 -24 | 4 (1.8) | | |
| P3016-1420 | ¼" -20 | 4 (1.8) | | |

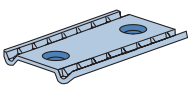
|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|-------------|
| | P3006-0832 | #8 -32 | 6 (2.7) | Any Channel |
| P3006-1024 | #10 -24 | 6 (2.7) | | |
| P3006-1420 | ¼" -20 | 6 (2.7) | | |
| P3007 | ⅝" -18 | 6 (2.7) | | |
| P3008 | ¾" -16 | 9 (4.1) | | |
| P3009 | 7/16" -14 | 9 (4.1) | | |


|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|-----------------------------------|--|
| | P3010 | ½" -13 | 11 (5.0) | Any Channel Except P3300, P4000, P4400, P4520, P4100 |
| P3013 | ½" -13 | 8 (3.6) | P3300, P4000, P4400, P4520, P4100 | |

|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|--|
| | P1012 | ⅝" -11 | 20 (9.1) | Any Channel Except P3300, P4000, P4400, P4520, P4100 |
| P1023 | ¾" -10 | 20 (9.1) | | |
| P1024 | 7/8" -9 | 20 (9.1) | | |

|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|-----------------------------------|
| | P4012 | ⅝" -11 | 11 (5.0) | P3300, P4000, P4400, P4520, P4100 |
| P4023 | ¾" -10 | 11 (5.0) | | |

|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|--|-------------|
| | P1006T1420 | ¼" -20 | 7 (3.2) | Any Channel |
| P1008T | ⅝" -16 | 10 (4.5) | | |
| P1010T | ½" -13 | 12 (5.4) | Any Channel Except P3300, P4000, P4400, P4520, P4100 | |
| P4010T | ½" -13 | 8 (3.6) | P3300, P4000, P4400, P4520, P4100 | |

|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|-------------|
| | P4908 | ¾" -16 | 17.5 (7.9) | Any Channel |
| Double Conveyor Adjusting Nut | | | | |

|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|-------------------------|
| | P1016 | ¾" -16 | 17.5 (7.9) | Any "T" Slotted Channel |
| Missing Link Multi-Purpose Strut Fastener | | | | |

1 1/8" Channel
Telestrut
Nuts & Hardware
General Fittings
Pipe/Conduit Supports
Electrical Fittings
Concrete Inserts
Solar
Unipier®



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

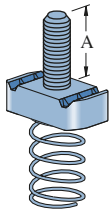
Electrical Fittings

Concrete Inserts

Solar

Unipier®

CHANNEL STUD NUT WITH SPRING

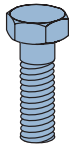


All Stud Nut grooves are serrated.

| Part No. | Thread | "A" Stud In (mm) | Wt/100 pcs Lbs (kg) | Use With P1000, P1100, P2000, P3000 |
|----------|------------|------------------|---------------------|-------------------------------------|
| P2378-1 | 1/4" - 20 | 1 (25.4) | 8 (3.6) | |
| P2378-2 | | 1 1/4 (31.8) | 9 (4.1) | |
| P2378-3 | | 1 1/2 (38.1) | 9 (4.1) | |
| P2379-1 | 5/16" - 18 | 1 (25.4) | 12 (5.4) | |
| P2379-2 | | 1 1/4 (31.8) | 12 (5.4) | |
| P2379-3 | | 1 1/2 (38.1) | 13 (5.9) | |
| P2380-1 | 3/8" - 16 | 1 (25.4) | 13 (5.9) | |
| P2380-2 | | 1 1/4 (31.8) | 13 (5.9) | |
| P2380-3 | | 1 1/2 (38.1) | 13 (5.9) | |
| P2380-4 | | 1 3/4 (44.5) | 15 (6.8) | |

| Part No. | Thread | "A" Stud In (mm) | Wt/100 pcs Lbs (kg) | Use With P1000, P1100, P2000, P3000 |
|----------|--------------|------------------|---------------------|-------------------------------------|
| P2380-5 | 3/8" - 16 | 2 (50.8) | 16 (7.3) | |
| P2380-6 | | 2 1/4 (57.2) | 16 (7.3) | |
| P2381-2 | 1/2" - 13 | 1 (25.4) | 14 (6.4) | |
| P2381-3 | | 1 1/4 (31.8) | 15 (6.8) | |
| P2381-4 | | 1 1/2 (38.1) | 17 (7.7) | |
| P2381-5 | | 1 3/4 (44.5) | 18 (8.2) | |
| P2381-6 | | 2 (50.8) | 19 (8.6) | |
| P2381-7 | | 2 1/4 (57.2) | 20 (9.1) | |
| P2382-2 | | 5/8" - 11 | 1 1/4 (31.8) | |
| P2382-3 | 1 1/2 (38.1) | | 20 (9.1) | |

HEX HEAD CAP SCREWS



| Part No. | Size | Wt/100 pcs Lbs (kg) |
|--------------|----------------|---------------------|
| HHCS025044EG | 1/4" x 7/16" | 1.0 (0.5) |
| HHCS025075EG | 1/4" x 3/4" | 1.3 (0.6) |
| HHCS025150EG | 1/4" x 1 1/2" | 2.6 (1.2) |
| HHCS031125EG | 5/16" x 1 1/4" | 3.6 (1.6) |
| HHCS037075EG | 3/8" x 3/4" | 4.0 (1.8) |
| HHCS037087EG | 3/8" x 7/8" | 4.4 (2.0) |
| HHCS037100EG | 3/8" x 1" | 4.5 (2.0) |
| HHCS037125EG | 3/8" x 1 1/4" | 5.3 (2.4) |
| HHCS037150EG | 3/8" x 1 1/2" | 6.0 (2.7) |
| HHCS037200EG | 3/8" x 2" | 7.6 (3.4) |
| HHCS037225EG | 3/8" x 2 1/4" | 8.4 (3.8) |
| HHCS037250EG | 3/8" x 2 1/2" | 9.2 (4.2) |
| HHCS050094EG | 1/2" x 1 5/16" | 9.1 (4.1) |
| HHCS050119EG | 1/2" x 1 3/8" | 10.2 (4.6) |
| HHCS050125EG | 1/2" x 1 1/4" | 11.0 (5.0) |
| HHCS050150EG | 1/2" x 1 1/2" | 11.6 (5.3) |
| HHCS050175EG | 1/2" x 1 3/4" | 13.1 (5.9) |
| HHCS050200EG | 1/2" x 2" | 14.6 (6.6) |
| HHCS050225EG | 1/2" x 2 1/4" | 16 (7.3) |
| HHCS050250EG | 1/2" x 2 1/2" | 17.5 (7.9) |

HEX SLOTTED MACHINE SCREWS



| Part No. | Size | Wt/100 pcs Lbs (kg) |
|--------------|----------------|---------------------|
| HSHS025050EG | 1/4" x 1/2" | 1.4 (0.6) |
| HSHS025062EG | 1/4" x 5/8" | 1.5 (0.7) |
| HSHS025075EG | 1/4" x 3/4" | 1.7 (0.8) |
| HSHS031100EG | 5/16" x 1" | 2.6 (1.2) |
| HSHS031125EG | 5/16" x 1 1/4" | 3.0 (1.4) |
| HSHS031150EG | 5/16" x 1 1/2" | 3.4 (1.5) |
| HSHS037125EG | 3/8" x 1 1/4" | 5.3 (2.4) |

FLAT HEAD MACHINE SCREWS



| Part No. | Size | Wt/100 pcs Lbs (kg) |
|--------------|-------------|---------------------|
| HFMS025062EG | 1/4" x 5/8" | 1.2 (0.5) |
| HFMS031100EG | 5/16" x 1" | 2.6 (1.2) |
| HFMS050100EG | 1/2" x 1" | 9.3 (4.2) |

CONE POINT SET SCREWS



| Part No. | Size | Wt/100 pcs Lbs (kg) |
|--------------|----------------|---------------------|
| HCSS025100EG | 1/4" x 1" | 2.8 (1.3) |
| HCSS031150EG | 5/16" x 1 1/2" | 3.9 (1.8) |
| HCSS037150EG | 3/8" x 1 1/2" | 4.5 (2.0) |
| HCSS037200EG | 3/8" x 2" | 6.1 (2.8) |
| HCSS050150EG | 1/2" x 1 1/2" | 8.5 (3.9) |
| HCSS050200EG | 1/2" x 2" | 11.4 (5.2) |
| HCSS062150EG | 5/8" x 1 1/2" | 14.5 (6.6) |
| HCSS062200EG | 5/8" x 2" | 23.0 (10.4) |

ROUND HEAD MACHINE SCREWS



| Part No. | Size | Wt/100 pcs Lbs (kg) |
|--------------|----------------|---------------------|
| HRMS025050EG | 1/4" x 1/2" | 1 (0.5) |
| HRMS025075EG | 1/4" x 3/4" | 1.2 (0.5) |
| HRMS025100EG | 1/4" x 1" | 1.5 (0.7) |
| HRMS031100EG | 5/16" x 1" | 2.6 (1.2) |
| HRMS031125EG | 5/16" x 1 1/4" | 3.0 (1.4) |
| HRMS037100EG | 3/8" x 1" | 4.1 (1.9) |
| HRMS037125EG | 3/8" x 1 1/4" | 4.7 (2.1) |
| HRMS037150EG | 3/8" x 1 1/2" | 5.3 (2.4) |

SQUARE NUTS



| Part No. | Size | Wt/100 pcs Lbs (kg) |
|-----------|------|------------------------|
| HSQN025EG | ¼" | 0.9 (0.4) |
| HSQN031EG | ⅝" | 1.6 (0.7) |
| HSQN037EG | ⅜" | 2.7 (1.2) |
| HSQN050EG | ½" | 5.8 (2.6) |
| HSQN062EG | ⅝" | 10.7 (4.9) |
| HSQN075EG | ¾" | 15.4 (6.9) |
| HSQN087EG | ⅞" | 24.9 (11.3) |
| HSQN100EG | 1" | 36.3 (16.5) |

HEXAGON NUTS



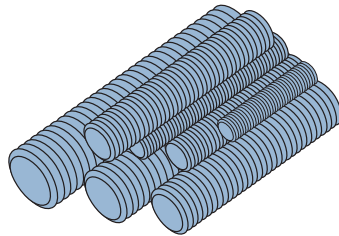
| Part No. | Size | Wt/100 pcs Lbs(kg) |
|-----------|------|-----------------------|
| HHXN025EG | ¼" | 0.6 (0.3) |
| HHXN031EG | ⅝" | 1.2 (0.5) |
| HHXN037EG | ⅜" | 1.6 (0.7) |
| HHXN050EG | ½" | 4.8 (2.2) |
| HHXN062EG | ⅝" | 7.3 (3.3) |
| HHXN075EG | ¾" | 11.9 (5.4) |
| HHXN087EG | ⅞" | 19.0 (8.6) |
| HHXN100EG | 1" | 28.3 (12.8) |

FLAT WASHERS



| Part No. | Size | Wt/100 pcs Lbs(kg) |
|-----------|------|-----------------------|
| HFLW025EG | ¼" | 0.8 (0.4) |
| HFLW031EG | ⅝" | 1.0 (0.5) |
| HFLW037EG | ⅜" | 1.5 (0.7) |
| HFLW050EG | ½" | 3.5 (1.6) |
| HFLW062EG | ⅝" | 7.7 (3.5) |
| HFLW075EG | ¾" | 11.0 (5.0) |
| HFLW087EG | ⅞" | 15.3 (6.9) |
| HFLW100EG | 1" | 18.8 (8.5) |

STEEL THREADED ROD



Standard Length 12' (3.7m)

Low Carbon Steel Grade 1006 - 1010
 F_y = 36,000 psi minimum
 F_t = 58,000 psi minimum

| Part No. | Size | Wt/100 Ft. Lbs (kg) |
|----------|---------|------------------------|
| HTHR025 | ¼" x 20 | 13 (5.9) |
| HTHR031 | ⅝" x 18 | 20 (9.1) |
| HTHR037 | ⅜" x 16 | 30 (13.6) |
| HTHR044 | ⅞" x 14 | 30 (13.6) |
| HTHR050 | ½" x 13 | 53 (24.0) |
| HTHR062 | ⅝" x 11 | 84 (38.1) |
| HTHR075 | ¾" x 10 | 124 (56.2) |
| HTHR087 | ⅞" x 9 | 170 (77.1) |
| HTHR100 | 1" x 8 | 223 (101.2) |

LOCK WASHERS



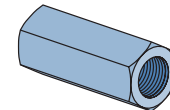
| Part No. | Size | Wt/100 pcs Lbs (kg) |
|-----------|------|------------------------|
| HLKW025EG | ¼" | 0.25 (0.1) |
| HLKW031EG | ⅝" | 0.41 (0.2) |
| HLKW037EG | ⅜" | 0.63 (0.3) |
| HLKW050EG | ½" | 1.32 (0.60) |
| HLKW062EG | ⅝" | 2.20 (1.0) |
| HLKW075EG | ¾" | 3.80 (1.7) |
| HLKW087EG | ⅞" | 6.00 (2.7) |
| HLKW100EG | 1" | 8.80 (4.0) |

LOAD CARRYING CAPACITY OF THREADED HOT ROLLED STEEL
 CONFORMING TO ASTM A575 AND A576

| Threaded Rod Loads for Piping Applications (based on MSS SP-58) | | |
|---|---|--|
| Nominal Dia. | Root Area In ² (mm ²) | Max. Safe Load at 650°F (343°C) Lbs (kN) |
| ⅜" | 0.068 (43.9) | 730 (3.25) |
| ½" | 0.126 (81.3) | 1,350 (6.01) |
| ⅝" | 0.202 (130.3) | 2,160 (9.61) |
| ¾" | 0.302 (194.8) | 3,230 (14.37) |
| ⅞" | 0.419 (270.3) | 4,480 (19.93) |
| 1" | 0.552 (356.1) | 5,900 (26.24) |

| Threaded Rod Loads for Structural Applications (Based on AISC, Steel Construction Manual, ASD, 14th Edition. Per AISC, Allowed Tensile Stress = 0.33 * F _u) | | |
|---|--|-------------------------------------|
| Nominal Dia. | Nominal Area In ² (mm ²) | Allowed Tension Load Lbs (kN) |
| ¼" | 0.049 (31.6) | 930 (4.14) |
| ⅜" | 0.110 (71.0) | 2,110 (9.39) |
| ⅞" | 0.150 (96.8) | 2,870 (12.77) |
| ½" | 0.196 (126.5) | 3,750 (16.68) |
| ⅝" | 0.307 (198.2) | 5,870 (26.11) |
| ¾" | 0.442 (285.4) | 8,450 (37.59) |
| ⅞" | 0.601 (388.0) | 11,500 (51.15) |
| 1" | 0.785 (506.8) | 15,030 (66.86) |

STEEL COUPLER NUTS



| Part Number | Size | Length In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|---------|-------------------|---------------------------|
| HRCN025 | ¼" - 20 | ⅞" (22.2) | 1.9 (0.9) |
| HRCN031 | ⅝" - 18 | 1¼" (44.5) | 7.5 (3.4) |
| HRCN037 | ⅜" - 16 | 1¼" (44.5) | 9.0 (4.1) |
| HRCN044 | ⅞" - 14 | 1¼" (44.5) | 10.4 (4.7) |
| HRCN050 | ½" - 13 | 1¼" (44.5) | 10.0 (4.5) |
| HRCN062 | ⅝" - 11 | 2⅛" (54.0) | 18.0 (8.2) |
| HRCN075 | ¾" - 10 | 2¼" (57.2) | 28.0 (12.7) |
| HRCN087 | ⅞" - 9 | 2½" (63.5) | 55.0 (24.9) |
| HRCN100 | 1" - 8 | 2¾" (69.9) | 73.0 (33.1) |



1 5/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

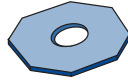
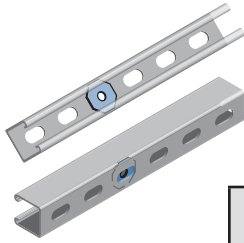
Electrical Fittings

Concrete Inserts

Solar

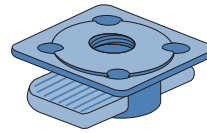
Unipier®

SLOT ADAPTER™

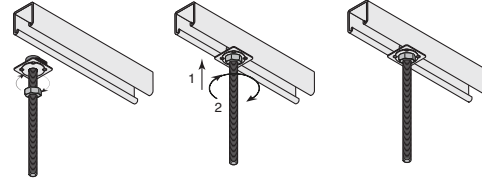


| Part No. | Bolt Size | Wt/100 pcs Lbs (kg) |
|----------|------------|------------------------|
| HOCW025 | 1/4" (6.4) | 1 (0.5) |
| HOCW037 | 3/8" (9.5) | 1.5 (0.7) |

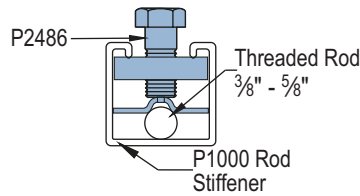
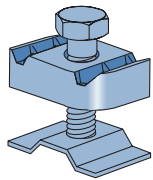
KWIK WASHER™



Overhead installation with one hand.
Available in zinc plated and hot dip galvanized



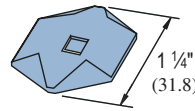
P2486 SEISMIC ROD STIFFENER



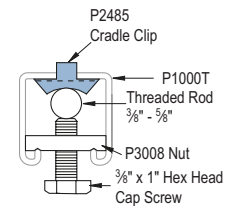
Wt/100 pcs: 16 Lbs (7.3 kg)

| Part No. | Size In (mm) | Load Lbs (kN) | Wt/100 pcs Lbs (kg) |
|----------|-----------------|------------------|------------------------|
| K1062 | 1/4" (6.4) | 250 (1.11) | 1.2 (0.5) |
| K1063 | 3/8" (9.5) | 610 (2.71) | 2.6 (1.2) |
| K1064 | 1/2" (12.7) | 1,130 (5.03) | 9.3 (4.2) |

P2485 CRADLE CLIP

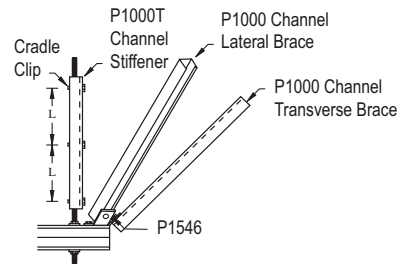
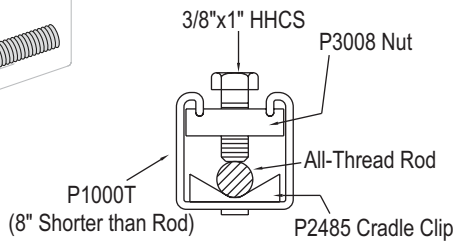
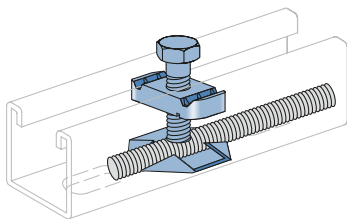


Cradle clip only, order other items separately.



P2485K

SEISMIC CRADLE CLIP ASSEMBLY



Wt/100 pcs: 3.0 Lbs (1.4 kg)

P2485 & P2486 - SPACING CHART

| Rod Size In (mm) | Root Area In ² (mm ²) | Radius of Gyration In (mm) | Design Load Lbs (kN) |Rod Stiffener Clip Spacing (L)..... | | | |
|---------------------|---|-------------------------------|-------------------------|--|--|--|--|
| | | | | Rod Stress @100% 10,700 PSI In (mm) | Rod Stress @75% 8,025 PSI In (mm) | Rod Stress @50% 5,350 PSI In (mm) | Rod Stress @35% 3,745 PSI In (mm) |
| 3/8 | 0.068 | 0.074 | 730 | 9 | 11 | 13 | 15 |
| 9.5 | 49.5 | 1.99 | 3.25 | 228.6 | 279.4 | 330.2 | 381.0 |
| 1/2 | 0.126 | 0.100 | 1,350 | 12 | 14 | 17 | 21 |
| 12.7 | 72.4 | 2.40 | 6.01 | 304.8 | 355.6 | 431.8 | 533.4 |
| 5/8 | 0.202 | 0.127 | 2,160 | 15 | 18 | 22 | 26 |
| 15.9 | 138.3 | 3.32 | 9.61 | 381.0 | 457.2 | 558.8 | 660.4 |

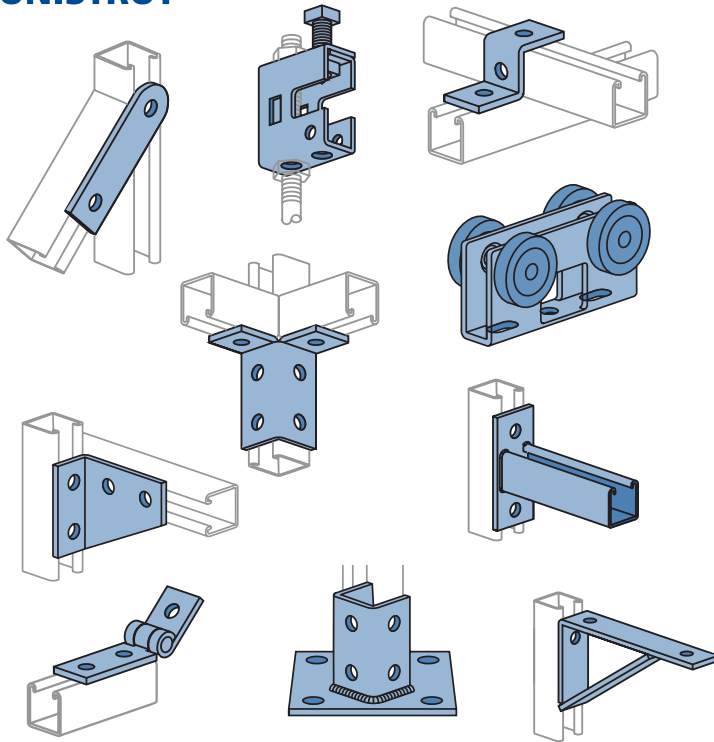
Notes:

- Minimum Tensile Stress is 50,000 psi (345MPa)
- Working Stress is 10,700 psi (73.9 MPa) - Same as for Tension
- Compression Will Only Occur During a Seismic Event
- Compression Requires the Use of Rod Stiffeners
- KL/r = 200 When Rod Stress is at 35%

Refer to seismic bracing systems catalog for more detailed information.



GENERAL FITTINGS



- Flat Plate Fittings 81 - 82
- Ninety Degree Fittings..... 82 - 85
- Angular Fittings 85
- "Z" Shape Fittings 86
- "U" Shape Fittings 87 - 88
- Wing Shape Fittings 89 - 90
- Post Bases 90
- Brackets 90 - 93
- Brace Fittings..... 94
- Beam Clamps..... 95 - 101
- Trolleys..... 102
- Special Application Fittings..... 103 - 104
- Seismic Retrofit Fittings..... 104 - 106

MATERIAL

Fittings, unless noted, are made from hot-rolled, pickled and oiled steel plates, bar, strip or coil, and conform to one or more of the following specifications: ASTM specifications A575, A576, A635, A1011 SS GR 33, A1011 HSLAS GR 45 or A36. All fittings meet or exceed physical properties of ASTM A1011 GR 33. The pickling of the steel produces a smooth surface free from scale.

Many fittings are also available in stainless steel, aluminum and fiberglass. Consult factory for ordering information.

FINISHES

Fittings are available in:

- Green Powder Coat (GR), conforming to commercial standards for Powder Coating
- Electro-galvanized (EG), conforming to ASTM B633 Type III SC1;
- Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 and
- Plain (PL)
- Unistrut Defender (DF), conforming to ASTM A1059 or A1046

APPLICATION

All parts drawings illustrate only one application of each fitting. In most cases many other applications are possible. The channels shown in the illustrations are P1000, 1 1/8" square, except where noted otherwise.

All 9/16" diameter holes use 1/2" x 1 5/16" hex head cap screws and 1/2" nuts – P1010, P3010, P4010 or P5510 – depending on the channel used. Nuts and bolts are not included with the fitting and must be ordered separately.

DESIGN 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 (N•m) | 6 (8) | 11 (15) | 19 (26) | 50 (68) | 100 (136) | 125 (170) |
| Max Torque Ft/Lbs (N•m) | 7 (9) | 15 (20) | 25 (34) | 70 (95) | 125 (170) | 135 (183) |

SET SCREW TORQUE

| BOLT SIZE | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 | 7/8"-9 |
|-------------------------------|-----------|-----------|-------------|-------------|---------------|-------------|
| Set Screw Torque In/Lbs (N•m) | 40 (4) | 60 (7) | 125 (14) | 250 (28) | 400 (44.5) | 665 (75) |

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

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

BEAM CLAMPS

Clamps are designed to be used with W, M, S and HP Shape beams, Standard C and Miscellaneous MC Channels, Angles and Structural Tees. Clamps must be used in pairs mounted in opposite directions where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

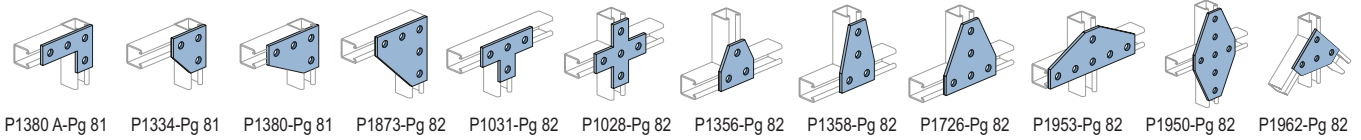
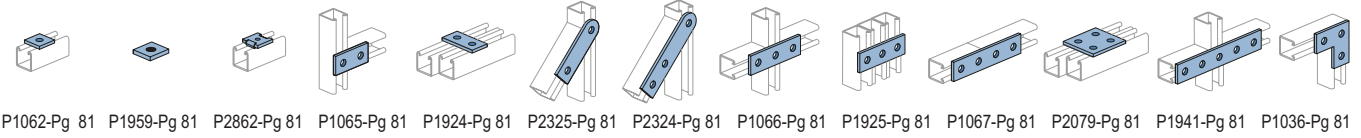
Electrical Fittings

Concrete Inserts

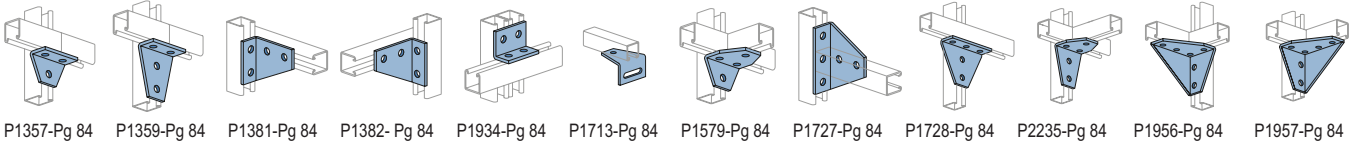
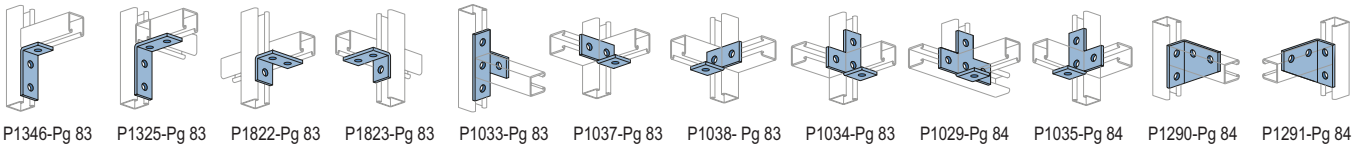
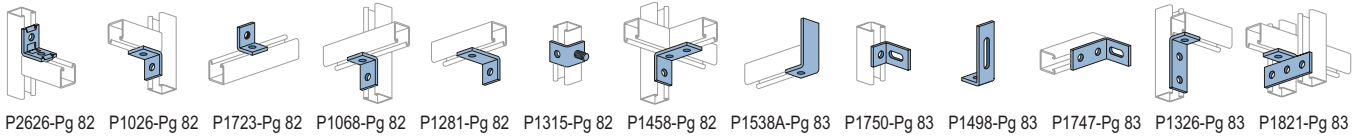
Solar

Unipier®

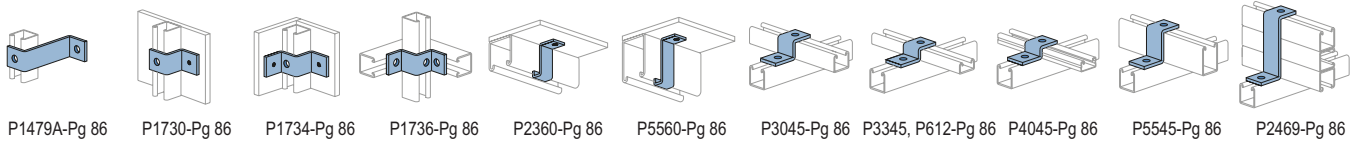
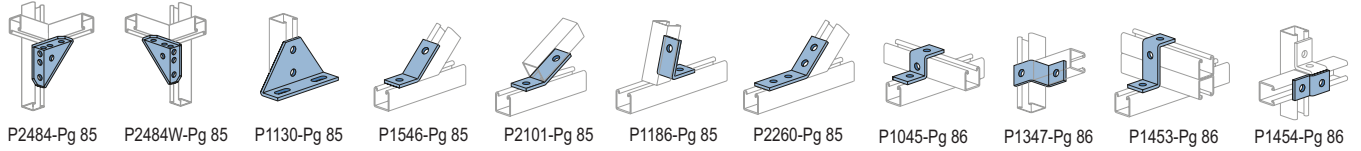
Flat Plate Fittings



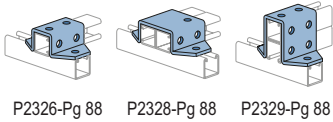
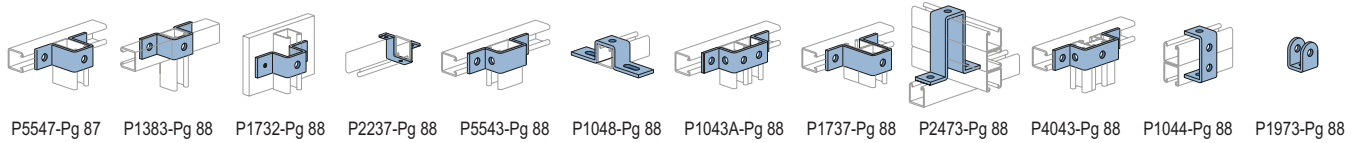
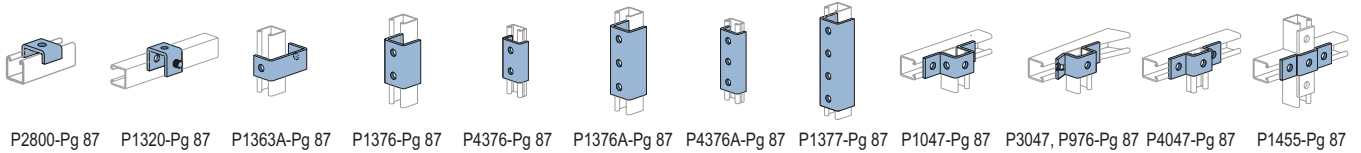
Angle Fittings



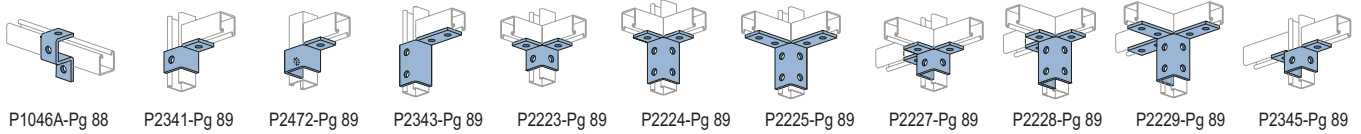
"Z" Shape Fittings



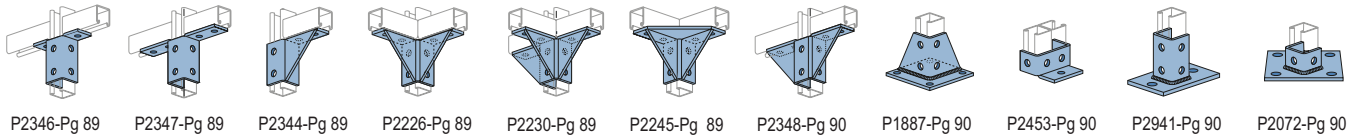
"U" Shape Fittings



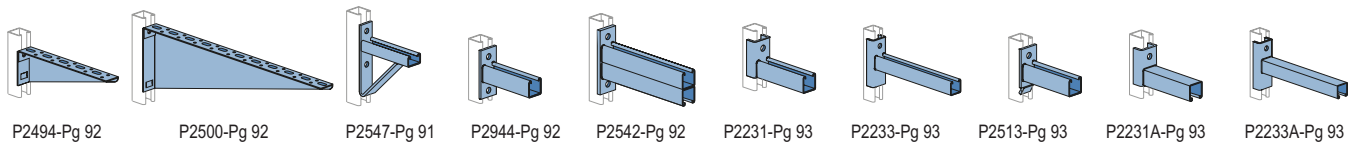
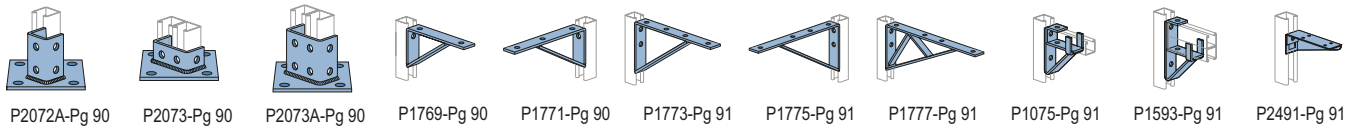
Wing Shape Fittings



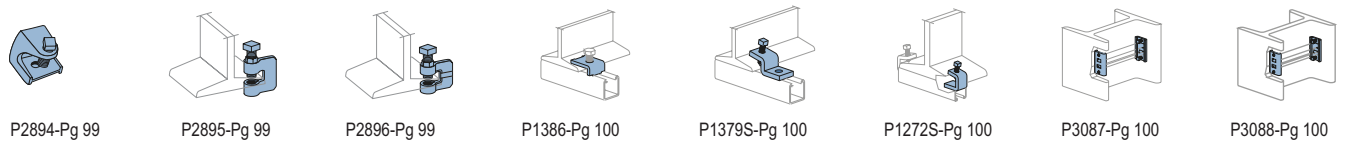
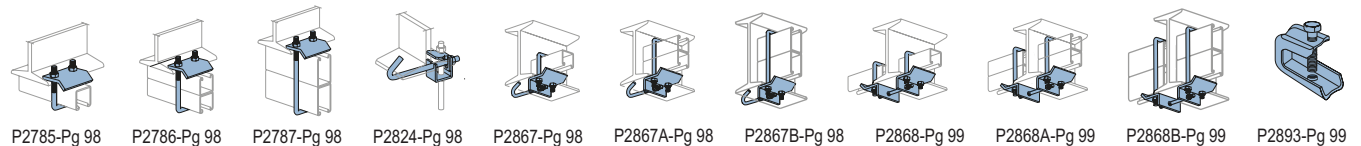
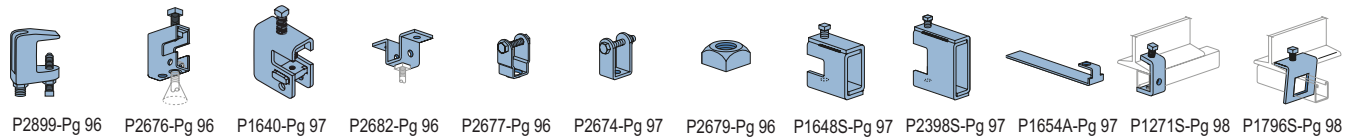
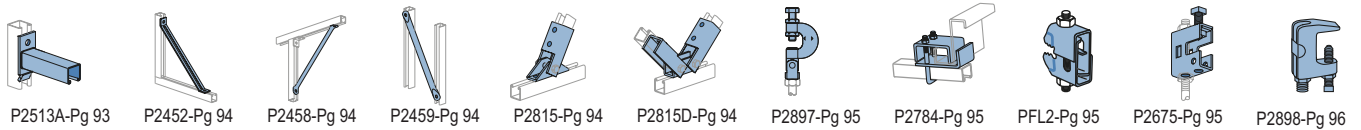
Post Bases



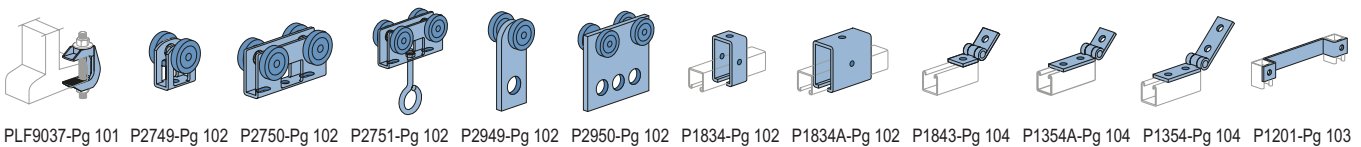
Brackets and Brace Fittings



Beam Clamps

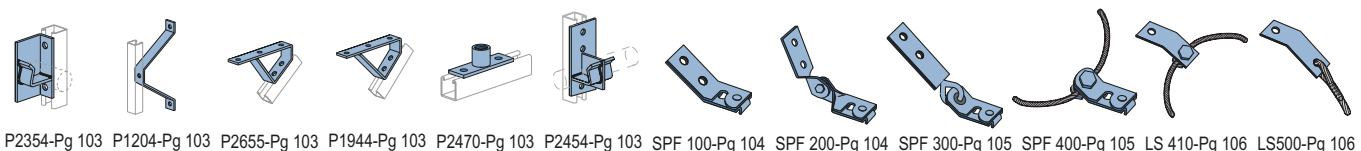


Trolley Assemblies



Special Applications Fittings

Seismic Retrofit Fittings





DESIGN LOAD DATA FOR TYPICAL UNISTRUT CHANNEL CONNECTIONS

90° Fittings (When used in position shown)

1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

Solar

Unipier®

| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P1026 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 1,500 | 1,000 | 750 |
| | kN | 6.67 | 4.45 | 3.34 |

| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P2484 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 3,000 | 2,000 | 1,500 |
| | kN | 13.34 | 8.90 | 6.67 |

| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P1026 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 1,000 | 650 | 500 |
| | kN | 4.45 | 2.89 | 2.22 |

| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P1068 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 500 | 500 | 500 |
| | kN | 2.22 | 2.22 | 2.22 |

| | | Channel Thickness | | |
|---------------------|-----|-------------------|--------|--------|
| Load – P1325, P2235 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 2,000 | 2,000 | 1,500 |
| | kN | 8.90 | 8.90 | 6.67 |

| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P1326 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 500 | 500 | 500 |
| | kN | 2.22 | 2.22 | 2.22 |

| | | Channel Thickness | | |
|---------------------|-----|-------------------|--------|--------|
| Load – P1458, P1579 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 1,500 | 1,000 | 1,000 |
| | kN | 6.67 | 4.45 | 4.45 |

| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P1346 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 1,200 | 1,200 | 1,000 |
| | kN | 5.34 | 5.34 | 4.45 |

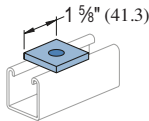
| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P1346 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 2,000 | 1,500 | 900 |
| | kN | 8.90 | 6.67 | 4.00 |

| | | Channel Thickness | | |
|--------------|-----|-------------------|--------|--------|
| Load – P1065 | | 12 ga. | 14 ga. | 16 ga. |
| | Lbs | 1,000 | 800 | 600 |
| | kN | 4.45 | 3.56 | 2.67 |

- Note:
- (1) Both ends of beams supported.
 - (2) Load data is based on P1010 nut and 1/2" bolt.
 - (3) Safety factor = 2 1/2 based on ultimate strength of connection.

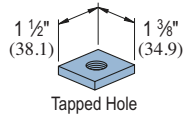
Flat Plate Fittings

P1062, P1063, P1064, P1964, P2471, P2490 DF, EG, GR, HG



| Part No. | Bolt Size | Hole Size | Wt/100 pcs Lbs (kg) |
|----------|-----------|-----------|---------------------|
| P1062 | 5/16" | 1 1/32" | 18 (8.2) |
| P1063 | 3/8" | 7/16" | 18 (8.2) |
| P1064 | 1/2" | 9/16" | 17 (7.7) |
| P1964 | 5/8" | 1 1/16" | 16 (7.3) |
| P2471 | 3/4" | 1 3/16" | 15 (6.8) |
| P2490 | 7/8" | 1 5/16" | 14 (6.4) |

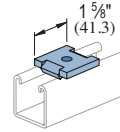
P1959, P1960, P1961 EG, GR, HG



| Part Number | U.S. Std. Thd Size | Wt/100 pcs Lbs (kg) |
|-------------|--------------------|---------------------|
| P1959 | 3/8" - 16 | 21 (9.5) |
| P1960 | 1/2" - 13 | 20 (9.1) |
| P1961 | 5/8" - 11 | 19 (8.6) |

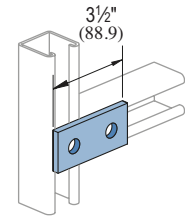
Material: 3/8" (9.5 mm) thick

P2862, 2863, 2864 DF, EG, GR, HG



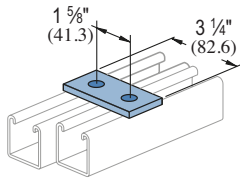
| Part Number | Bolt Size | Hole Size | Wt/100 pcs Lbs (kg) |
|-------------|-----------|-----------|---------------------|
| P2862 | 5/16" | 1 1/32" | 18 (8.2) |
| P2863 | 3/8" | 7/16" | 18 (8.2) |
| P2864 | 1/2" | 9/16" | 17 (7.7) |

P1065 DF, EG, GR, HG



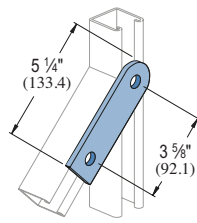
Wt/100 pcs: 38 Lbs (17.2 kg)

P1924 EG, GR, HG



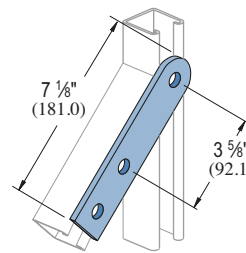
Wt/100 pcs: 35 Lbs (15.9 kg)

P2325 EG, GR, HG



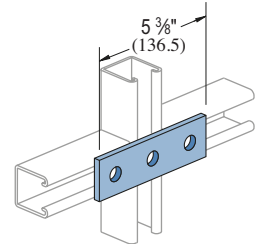
Wt/100 pcs: 55 Lbs (24.9 kg)

P2324 DF, EG, GR, HG



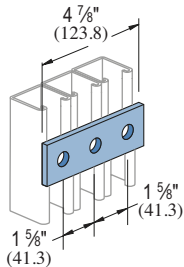
Wt/100 pcs: 75 Lbs (34.0 kg)

P1066 DF, EG, GR, HG



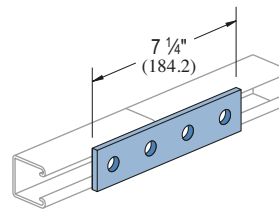
Wt/100 pcs: 56 Lbs (25.4 kg)

P1925 EG, GR, HG



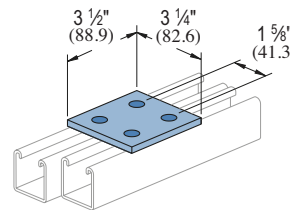
Wt/100 pcs: 50 Lbs (22.7 kg)

P1067 EG, GR, HG



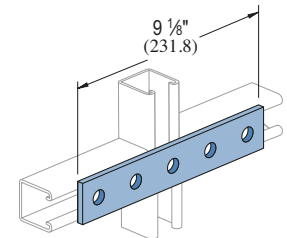
Wt/100 pcs: 78 Lbs (35.4 kg)

P2079 EG, GR, HG



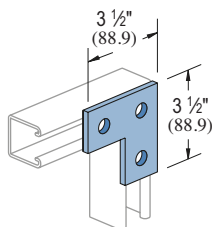
Wt/100 pcs: 73 Lbs (33.1 kg)

P1941 EG, GR, HG



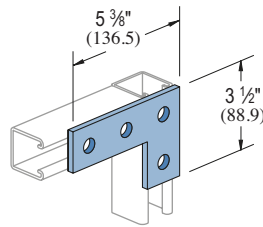
Wt/100 pcs: 94 Lbs (42.6 kg)

P1036 DF, EG, GR, HG



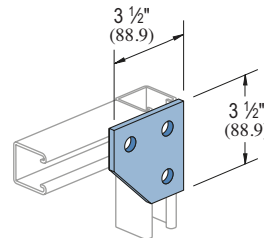
Wt/100 pcs: 58 Lbs (26.3 kg)

P1380 A DF, EG, GR, HG



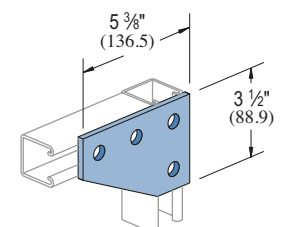
Wt/100 pcs: 80 Lbs (36.3 kg)

P1334 EG, GR, HG



Wt/100 pcs: 70 Lbs (31.8 kg)

P1380 EG, GR, HG



Wt/100 pcs: 105 Lbs (47.6 kg)

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 5/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 1/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

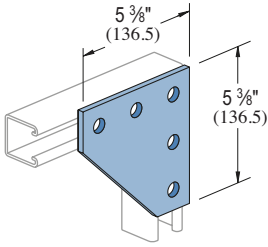
Electrical Fittings

Concrete Inserts

Solar

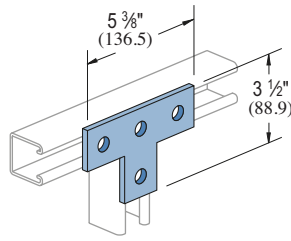
Unipier®

P1873 EG, GR, HG



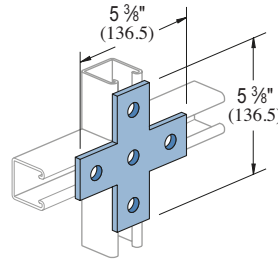
Wt/100 pcs: 150 Lbs (68.0 kg)

P1031 DF, EG, GR, HG



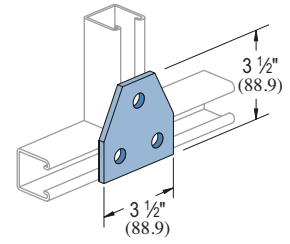
Wt/100 pcs: 80 Lbs (36.3 kg)

P1028 DF, EG, GR, HG



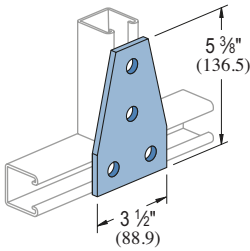
Wt/100 pcs: 105 Lbs (47.6 kg)

P1356 EG, GR, HG



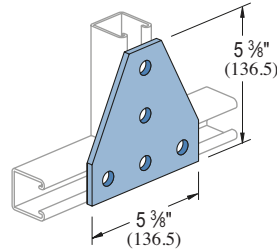
Wt/100 pcs: 70 Lbs (31.8 kg)

P1358 EG, GR, HG



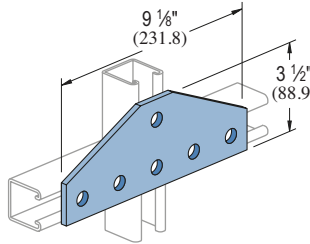
Wt/100 pcs: 105 Lbs (47.6 kg)

P1726 EG, GR, HG



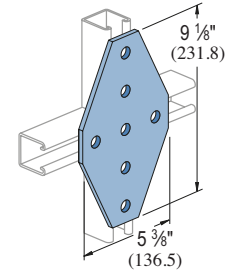
Wt/100 pcs: 148 Lbs (67.1 kg)

P1953 EG, GR, HG



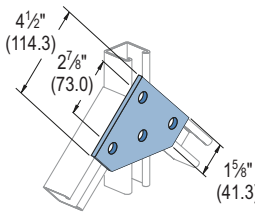
Wt/100 pcs: 176 Lbs (79.8 kg)

P1950 EG, GR, HG



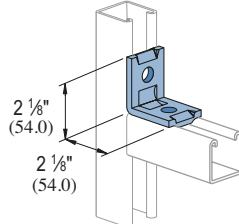
Wt/100 pcs: 240 Lbs (108.9 kg)

P1962 EG, GR, HG



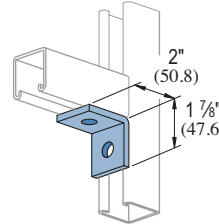
Wt/100 pcs: 112 Lbs (50.8 kg)

P2626 EG, GR, HG



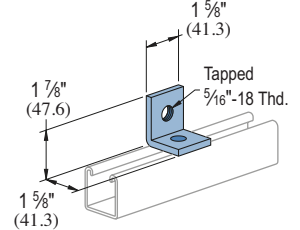
Wt/100 pcs: 40 Lbs (18.1 kg)

P1026 DF, EG, GR, HG



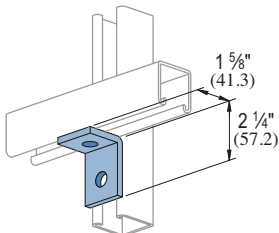
Wt/100 pcs: 38 Lbs (17.2 kg)

P1723 EG, GR, HG



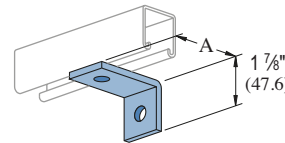
Wt/100 pcs: 34 Lbs (15.4 kg)

P1068 DF, EG, GR, HG



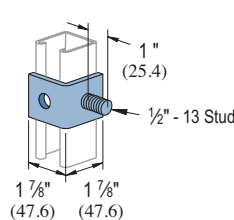
Wt/100 pcs: 38 Lbs (17.2 kg)

P1281, P1282, P1283 EG, GR, HG



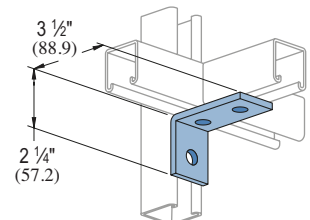
| Part No. | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|-------------|---------------------|
| P1281 | 3 | 49 |
| P1282 | 3 1/2 | 54 |
| P1283 | 4 | 61 |

P1315 EG, GR, HG



Wt/100 pcs: 45 Lbs (20.4 kg)

P1458 EG, GR, HG



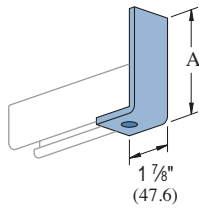
Wt/100 pcs: 58 Lbs (26.3 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1/16" (20.6mm); Hole Spacing - On Center: 1 1/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45

P1538A THRU P1538D

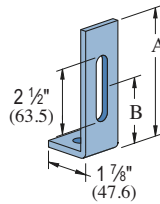
EG, GR, HG



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------|------------------------|
| P1538A | 3 3/8 98.4 | 61 27.7 |
| P1538B | 5 7/8 149.2 | 84 38.1 |
| P1538C | 7 7/8 200.0 | 107 48.5 |
| P1538D | 9 7/8 250.8 | 130 59.0 |

P1498, P1499

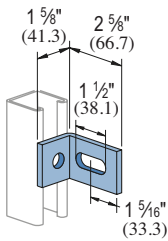
DF, EG, GR, HG



| Part Number | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------|----------------|------------------------|
| P1498 | 4 7/8 123.8 | 2 1/2 63.5 | 65 29.5 |
| P1499 | 6 7/8 174.6 | 4 1/2 114.3 | 85 38.6 |

P1750

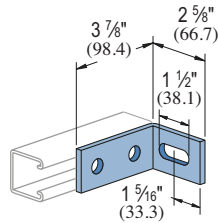
EG, GR, HG



Wt/100 pcs: 38 Lbs (17.2 kg)

P1747

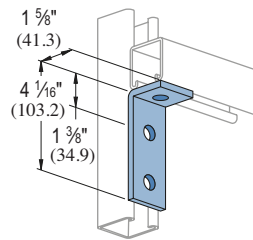
EG, GR, HG



Wt/100 pcs: 66 Lbs (29.9 kg)

P1326

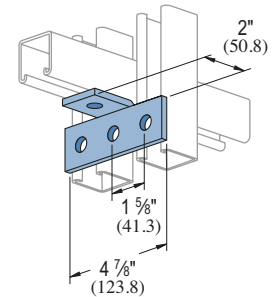
EG, GR, HG



Wt/100 pcs: 58 Lbs (26.3 kg)

P1821

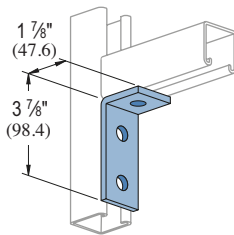
EG, GR, HG



Wt/100 pcs: 71 Lbs (32.2 kg)

P1346

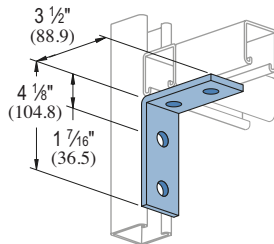
EG, GR, HG



Wt/100 pcs: 58 Lbs (26.3 kg)

P1325

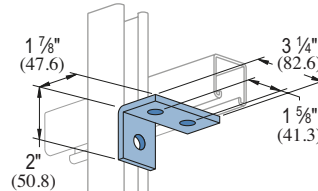
EG, GR, HG



Wt/100 pcs: 78 Lbs (35.4 kg)

P1822

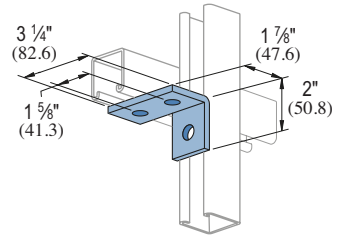
EG, GR, HG



Wt/100 pcs: 55 Lbs (24.9 kg)

P1823

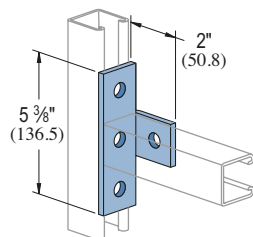
EG, GR, HG



Wt/100 pcs: 55 Lbs (24.9 kg)

P1033

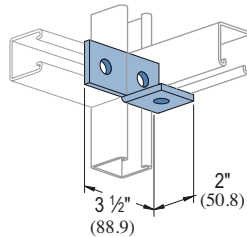
EG, GR, HG



Wt/100 pcs: 80 Lbs (36.3 kg)

P1037

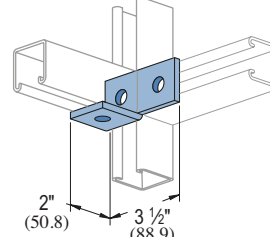
EG, GR, HG



Wt/100 pcs: 58 Lbs (26.3 kg)

P1038

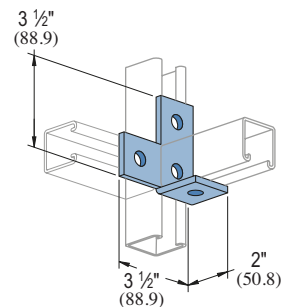
EG, GR, HG



Wt/100 pcs: 58 Lbs (26.3 kg)

P1034

EG, GR, HG



Wt/100 pcs: 80 Lbs (36.3 kg)

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

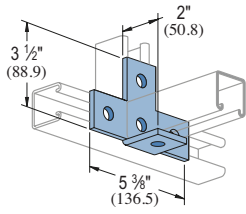
Electrical Fittings

Concrete Inserts

Solar

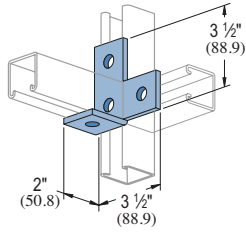
Unipier®

P1029 EG, GR, HG



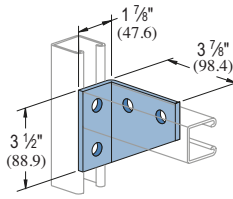
Wt/100 pcs: 105 Lbs (47.6 kg)

P1035 EG, GR, HG



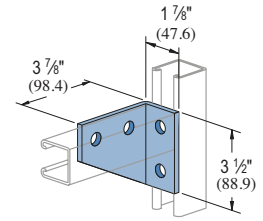
Wt/100 pcs: 80 Lbs (36.3 kg)

P1290 EG, GR, HG



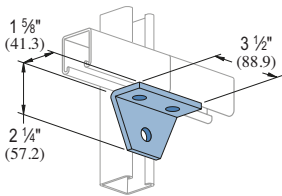
Wt/100 pcs: 101 Lbs (45.8 kg)

P1291 EG, GR, HG



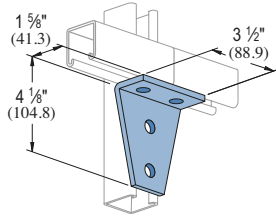
Wt/100 pcs: 101 Lbs (45.8 kg)

P1357 EG, GR, HG



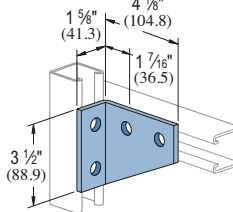
Wt/100 pcs: 70 Lbs (31.8 kg)

P1359 EG, GR, HG



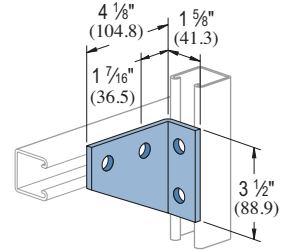
Wt/100 pcs: 105 Lbs (47.6 kg)

P1381 EG, GR, HG



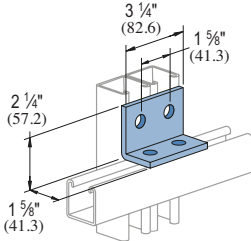
Wt/100 pcs: 105 Lbs (47.6 kg)

P1382 EG, GR, HG



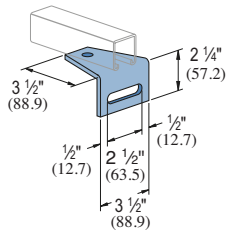
Wt/100 pcs: 105 Lbs (47.6 kg)

P1934



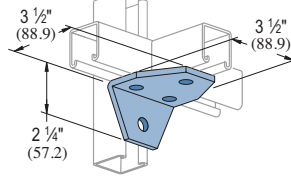
Wt/100 pcs: 75 Lbs (34.0 kg)

P1713



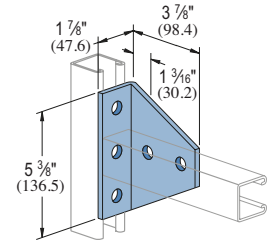
Wt/100 pcs: 97 Lbs (44.0 kg)

P1579



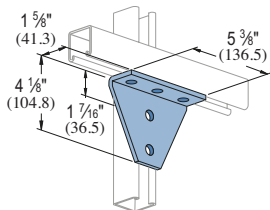
Wt/100 pcs: 103 Lbs (46.7 kg)

P1727



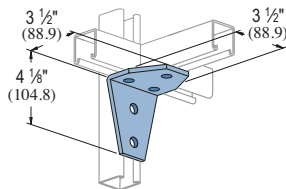
Wt/100 pcs: 154 Lbs (69.9 kg)

P1728



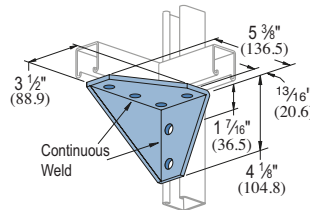
Wt/100 pcs: 154 Lbs (69.9 kg)

P2235



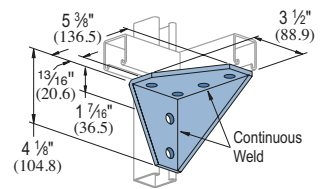
Wt/100 pcs: 135 Lbs (61.2 kg)

P1956



Wt/100 pcs: 230 Lbs (104.3 kg)

P1957 EG, GR, HG

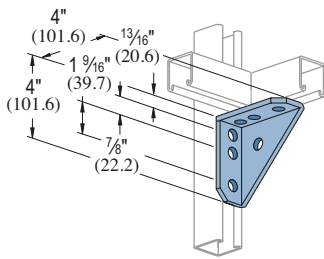


Wt/100 pcs: 230 Lbs (104.3 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

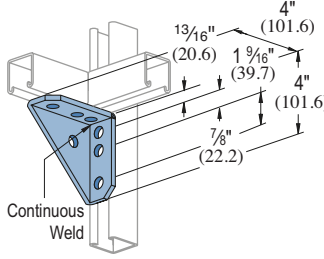
Hole Diameter: 3/16" (14.3mm); Hole Spacing - From End: 1 1/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45

P2484 [DF, EG, GR, HG]



Wt/100 pcs: 134 Lbs (60.8 kg)

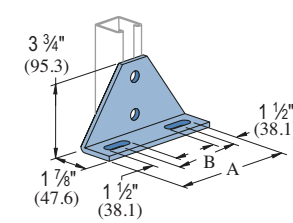
P2484W [EG, GR, HG]



Wt/100 pcs: 134 Lbs (60.8 kg)

P1130, P1131

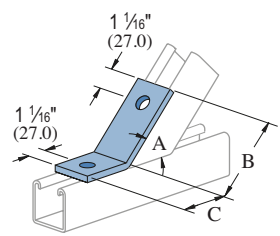
[EG, GR, HG]



| Part Number | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------|-------------|---------------------|
| P1130 | 6 5/8 168.3 | 4 101.6 | 190 86.2 |
| P1131 | 8 5/8 219.1 | 6 152.4 | 242 109.8 |

P1546, P2094 THRU P2100

[DF, EG, GR, HG]

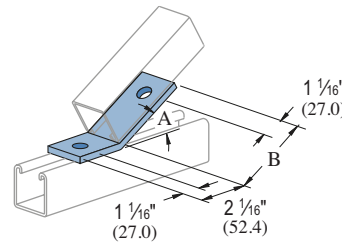


| Part No. | "A" Degree (rad) | "B" In (mm) | "C" In (mm) |
|----------|------------------|-----------------|-----------------|
| P2094 | 82 1/2° 1.44 | 3 9/16 90.5 | 1 11/16 42.9 |
| P2095 | 75° 1.31 | 3 9/16 90.5 | 1 11/16 42.9 |
| P2096 | 67 1/2° 1.18 | 3 1/2 88.9 | 1 3/4 44.5 |
| P2097 | 60° 1.05 | 3 3/8 85.7 | 1 7/8 47.6 |
| P2098 | 52 1/2° 0.92 | 3 1/4 82.6 | 2 1/16 52.4 |
| P1546 | 45° 0.79 | 3 76.2 | 2 5/8 58.7 |
| P2099 | 37 1/2° 0.65 | 3 1/2 88.9 | 1 3/16 46.0 |
| P2100 | 37 1/2° 0.65 | 2 11/16 68.3 | 2 5/8 66.7 |

Wt/100 pcs: 58 Lbs (26.3 kg)

P2101 THRU P2104

[EG, GR, HG]

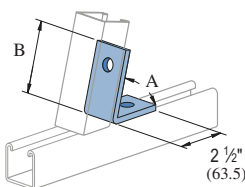


| Part No. | "A" Degree (rad) | "B" In (mm) |
|----------|------------------|----------------|
| P2101 | 30° 0.52 | 3/4 82.6 |
| P2102 | 22 1/2° 0.39 | 3 5/16 84.1 |
| P2103 | 15° 0.26 | 3 5/16 84.1 |
| P2104 | 7 1/2° 0.13 | 3 5/16 84.1 |

Wt/100 pcs: 58 Lbs (26.3 kg)

P1186, P2105 THRU P2110

[DF, EG, GR, HG]

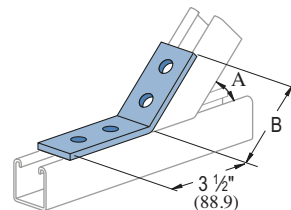


| Part Number | "A" Degree (rad) | "B" In (mm) |
|-------------|------------------|----------------|
| P2105 | 82 1/2° 1.44 | 3/4 82.6 |
| P2106 | 75° 1.31 | 3/4 82.6 |
| P2107 | 67 1/2° 1.18 | 3 9/16 81.0 |
| P2108 | 60° 1.05 | 3 9/16 81.0 |
| P2109 | 52 1/2° 0.92 | 3 1/8 79.4 |
| P1186 | 45° 0.79 | 3 1/8 79.4 |
| P2110 | 37 1/2° 0.65 | 3 1/16 77.8 |

Wt/100 pcs: 58 Lbs (26.3 kg)

P2260 THRU P2270

[DF, EG, GR, HG]



| Part Number | "A" Degree (rad) | "B" In (mm) |
|-------------|------------------|-----------------|
| P2270 | 82 1/2° 1.44 | 3 5/8 92.1 |
| P2269 | 75° 1.31 | 3 5/8 92.1 |
| P2268 | 67 1/2° 1.18 | 3 5/8 92.1 |
| P2267 | 60° 1.05 | 3 11/16 93.7 |
| P2266 | 52 1/2° 0.92 | 3 11/16 93.7 |
| P2265 | 45° 0.79 | 3 11/16 93.7 |
| P2264 | 37 1/2° 0.65 | 3 11/16 93.7 |
| P2263 | 30° 0.52 | 3 11/16 93.7 |
| P2262 | 22 1/2° 0.39 | 3 3/4 95.3 |
| P2261 | 15° 0.26 | 3 3/4 95.3 |
| P2260 | 7 1/2° 0.13 | 3 3/4 95.3 |

Wt/100 pcs: 78 Lbs (35.4 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 5



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

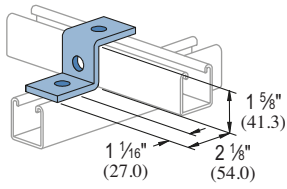
Electrical Fittings

Concrete Inserts

Solar

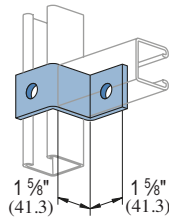
Unipier®

P1045



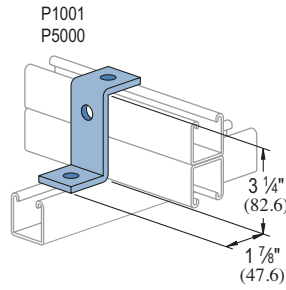
Wt/100 pcs: 55 Lbs (24.9 kg)

P1347



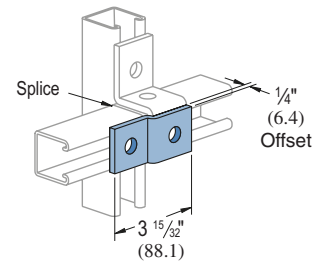
Wt/100 pcs: 55 Lbs (24.9 kg)

P1453



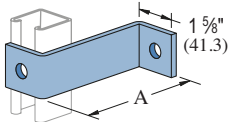
Wt/100 pcs: 70 Lbs (31.8 kg)

P1454



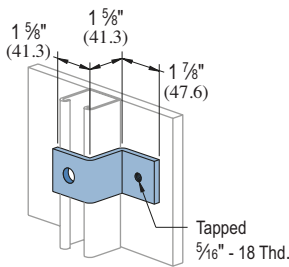
Wt/100 pcs: 38 Lbs (17.2 kg)

P1479A THRU P1479E



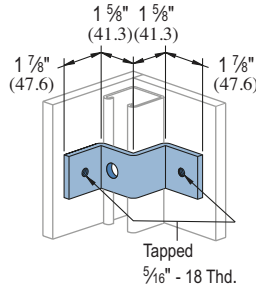
| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|---------------------|
| P1479A | 4 (101.6) | 81 (36.7) |
| P1479B | 5 (127.0) | 92 (41.7) |
| P1479C | 6 (152.4) | 104 (47.2) |
| P1479D | 7 (177.8) | 115 (52.2) |
| P1479E | 8 (203.2) | 127 (57.6) |

P1730



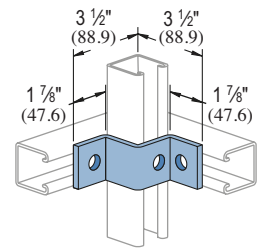
Wt/100 pcs: 54 Lbs (24.5 kg)

P1734



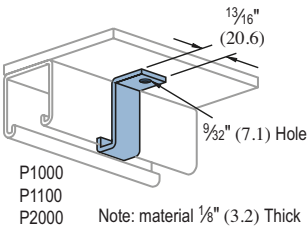
Wt/100 pcs: 70 Lbs (31.8 kg)

P1736



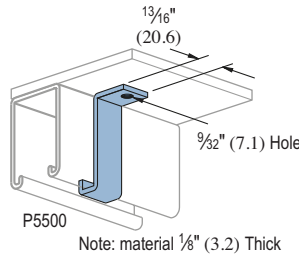
Wt/100 pcs: 70 Lbs (31.8 Kg)

P2360



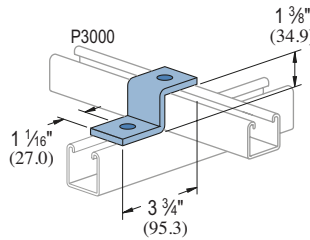
Wt/100 pcs: 9 Lbs (4.1 kg)

P5560



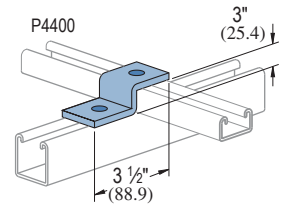
Wt/100 pcs: 11 Lbs (5.0 kg)

P3045



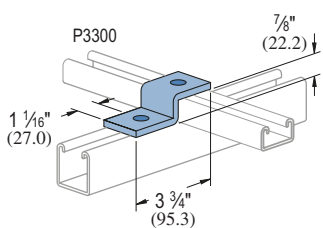
Wt/100 pcs: 53 Lbs (24.0 kg)

P612



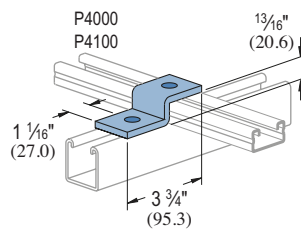
Wt/100 pcs: 47 Lbs (21.3 kg)

P3345



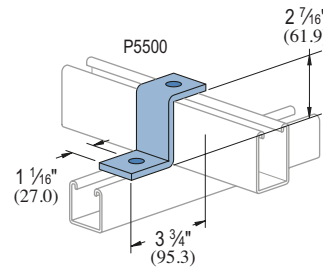
Wt/100 pcs: 47 Lbs (21.3 kg)

P4045



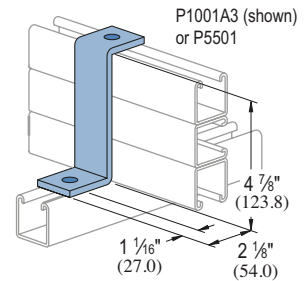
Wt/100 pcs: 47 Lbs (21.3 kg)

P5545



Wt/100 pcs: 67 Lbs (30.4 kg)

P2469



Wt/100 pcs: 93 Lbs (42.2 kg)

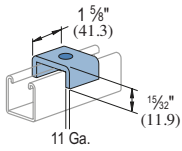
Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45

"U" Shape Fittings

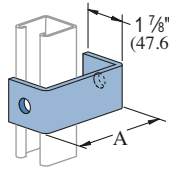
P2800

EG, GR, HG



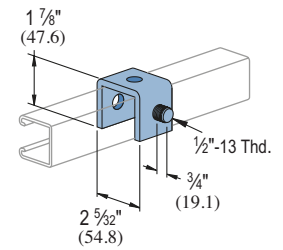
| Part Number | Bolt Size (in) | Hole Size (in) | Wt/100 pcs Lbs (kg) |
|-------------|----------------|----------------|---------------------|
| P2800-25 | 1/4" | 9/32" | 14 6.4 |
| P2800-37 | 3/8" | 7/16" | 14 6.4 |
| P2800-50 | 1/2" | 9/16" | 13 5.9 |
| P2800-62 | 5/8" | 1 1/16" | 13 5.9 |
| P2800-75 | 3/4" | 1 3/16" | 13 5.9 |

P1363A THRU P1363E



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|---------------------|
| P1363A | 4 101.6 | 78 35.4 |
| P1363B | 5 127.0 | 89 40.4 |
| P1363C | 6 152.4 | 101 45.8 |
| P1363D | 7 177.8 | 112 50.8 |
| P1363E | 8 203.2 | 124 56.2 |

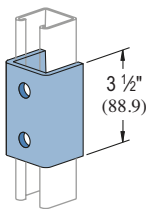
P1320



Wt/100 pcs: 63 Lbs (28.6 kg)

P1376

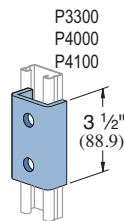
EG, GR, HG



Wt/100 pcs: 128 Lbs (58.1 kg)

P4376

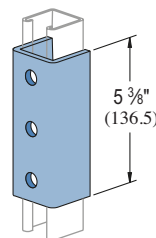
EG, GR, HG



Wt/100 pcs: 85 Lbs (38.6 kg)

P1376A

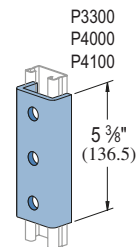
EG, GR, HG



Wt/100 pcs: 197 Lbs (89.4 kg)

P4376A

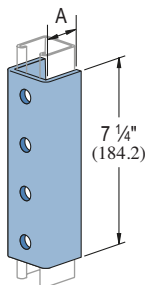
EG, GR, HG



Wt/100 pcs: 130 Lbs (59.0 kg)

P1377, P4377, P5077, P5577

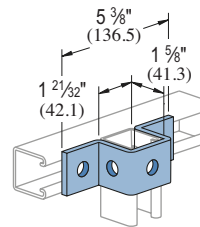
EG, GR, HG



| Part Number | For Use With | "A" in (mm) | Wt/100 pcs Lbs (kg) |
|-------------|---------------------|----------------|---------------------|
| P1377 | P1000, P1100, P2000 | 1 9/16 39.7 | 265 120 |
| P4377 | P3300, P4000, P4100 | 1 9/16 23.8 | 176 80 |
| P5077 | P5000 | 3 9/16 81.0 | 390 177 |
| P5577 | P5500 | 2 3/8 60.3 | 310 141 |

P1047

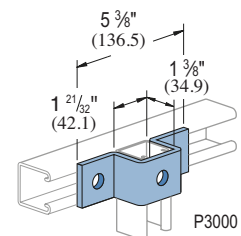
DF, EG, GR, HG



Wt/100 pcs: 88 Lbs (39.9 kg)

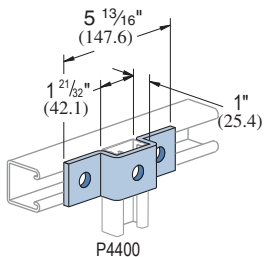
P3047

EG, GR, HG



Wt/100 pcs: 84 Lbs (38.1 kg)

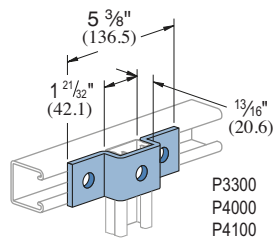
P976



Wt/100 pcs: 71 Lbs (32.2 kg)

P4047

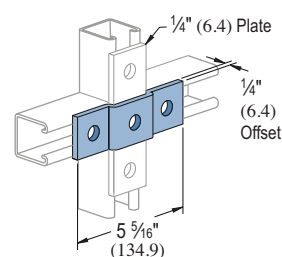
EG, GR, HG



Wt/100 pcs: 71 Lbs (32.2 kg)

P1455

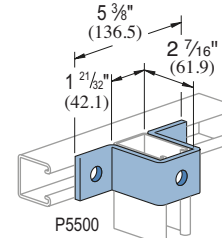
EG, GR, HG



Wt/100 pcs: 58 Lbs (26.3 kg)

P5547

EG, GR, HG



Wt/100 pcs: 108 Lbs (49.0 kg)

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

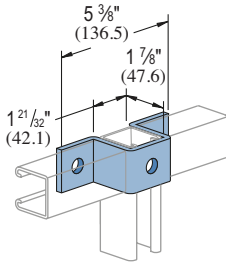
Electrical Fittings

Concrete Inserts

Solar

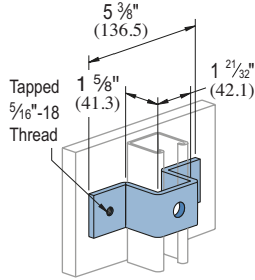
Unipier®

P1383 EG, GR, HG



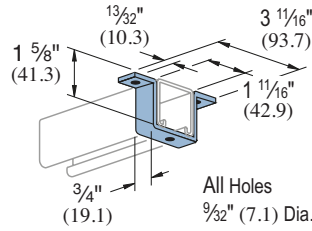
Wt/100 pcs: 95 Lbs (43.1 kg)

P1732 EG, GR, HG



Wt/100 pcs: 88 Lbs (39.9 kg)

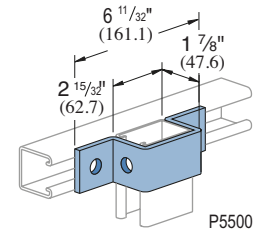
P2237 EG, GR, HG



Material: 1/8" (3.2) thick.

Wt/100 pcs: 18 Lbs (8.2 kg)

P5543 EG, GR, HG

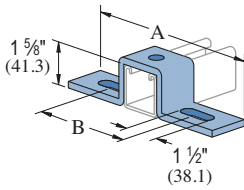


P5500

Wt/100 pcs: 97 Lbs (44.0 kg)

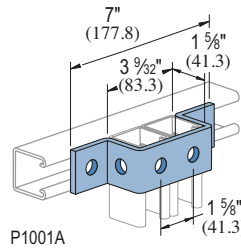
P1048, P1049, P1050

DF, EG, GR, HG



| Part Number | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-----------------|----------------|---------------------|
| P1048 | 7 1/4 184.2 | 4 1/8 104.8 | 105 47.6 |
| P1049 | 8 1/2 215.9 | 5 3/8 136.5 | 120 54.4 |
| P1050 | 10 3/8 263.5 | 7 1/4 184.2 | 130 59.0 |

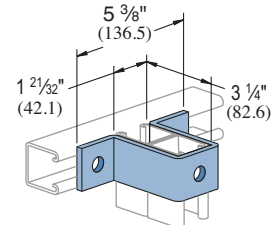
P1043A EG, GR, HG



P1001A

Wt/100 pcs: 105 Lbs (47.6 kg)

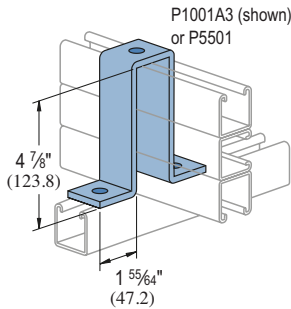
P1737 EG, GR, HG



P1001 (shown), P1101, P2001, P4004 or P5000

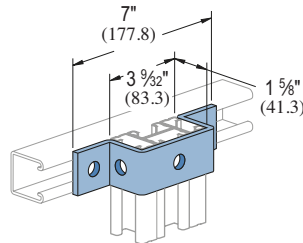
Wt/100 pcs: 128 Lbs (58.1 kg)

P2473 EG, GR, HG



Wt/100 pcs: 197 Lbs (89.4 kg)

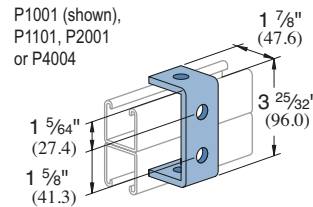
P4043 EG, GR, HG



P4004 (shown), P1001, P1101, P2001, or P5000

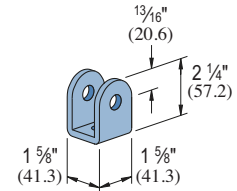
Wt/100 pcs: 106 Lbs (48.1 kg)

P1044 EG, GR, HG



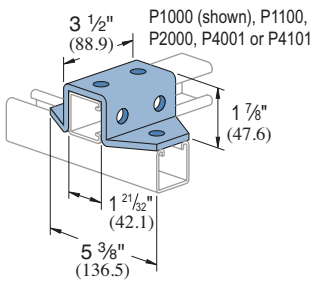
Wt/100 pcs: 70 Lbs (31.8 kg)

P1973 EG, GR, HG



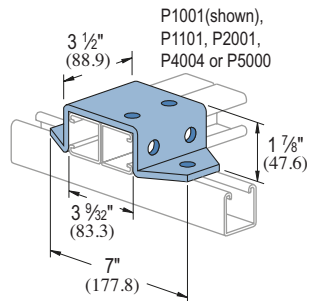
Wt/100 pcs: 53 Lbs (24.0 kg)

P2326 EG, GR, HG



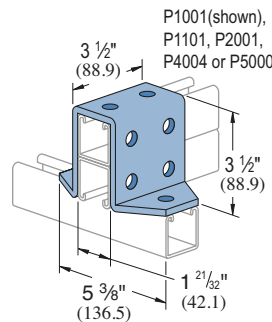
Wt/100 pcs: 171 Lbs (77.6 kg)

P2328



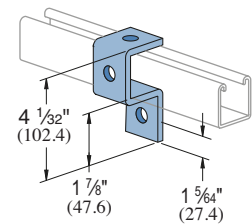
Wt/100 pcs: 209 Lbs (94.8 kg)

P2329



Wt/100 pcs: 257 Lbs (116.6 kg)

P1046A EG, GR, HG

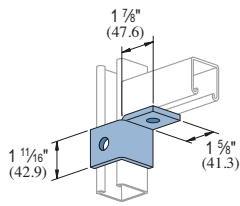


Wt/100 pcs: 76 Lbs (34.5 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45

P2341 R-L EG, GR, HG

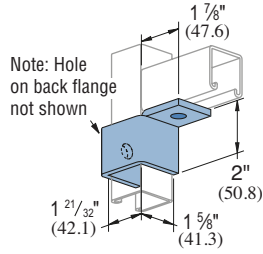


R - As shown
L - Opposite hand

Wt/100 pcs: 60 Lbs (27.2 kg)

P2224 EG, GR, HG

P2472 R-L EG, GR, HG

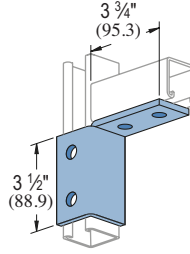


R - As shown
L - Opposite hand

Wt/100 pcs: 75 Lbs (34.0 kg)

P2225 EG, GR, HG

P2343 R-L

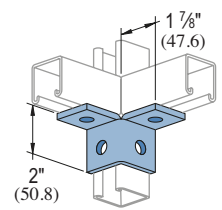


R - As shown
L - Opposite hand

Wt/100 pcs: 119 Lbs (54.0 kg)

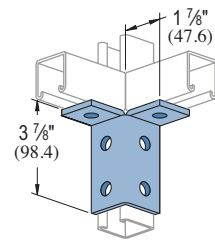
P2227 EG, GR, HG

P2223 EG, GR, HG



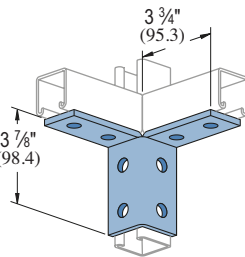
Wt/100 pcs: 76 Lbs (34.5 kg)

P2228 EG, GR, HG



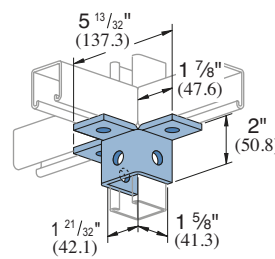
Wt/100 pcs: 115 Lbs (52.2 kg)

P2229 EG, GR, HG



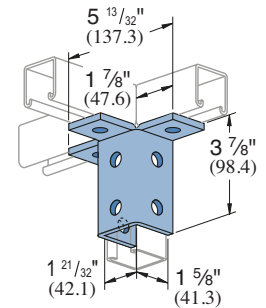
Wt/100 pcs: 155 Lbs (70.3 kg)

P2345 EG, GR, HG



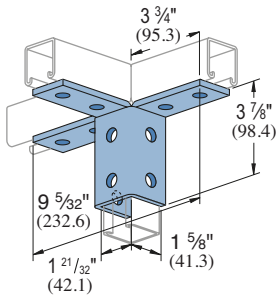
Wt/100 pcs: 113 Lbs (51.3 kg)

P2346 EG, GR, HG



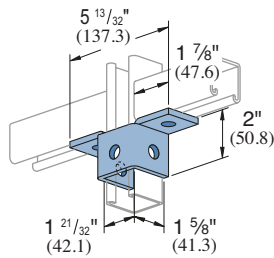
Wt/100 pcs: 177 Lbs (80.3 kg)

P2347 EG, GR, HG



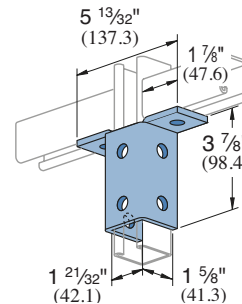
Wt/100 pcs: 230 Lbs (104.3 kg)

P2344 R-L EG, GR, HG



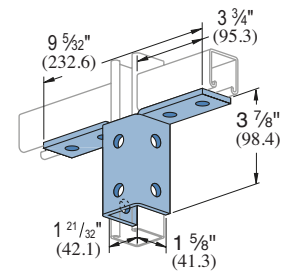
Wt/100 pcs: 93 Lbs (42.2 kg)

P2226 EG, GR, HG



Wt/100 pcs: 150 Lbs (68.0 kg)

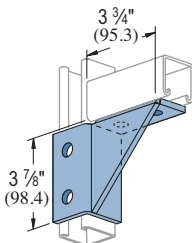
P2230 EG, GR, HG



Wt/100 pcs: 193 Lbs (87.5 kg)

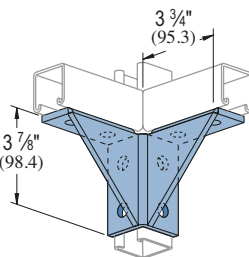
P2245 EG, GR, HG

Fitting notched for continuous vertical.

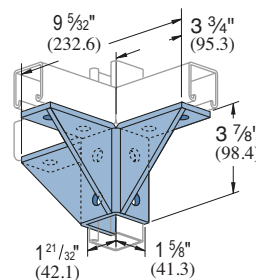


R - As shown
L - Opposite hand

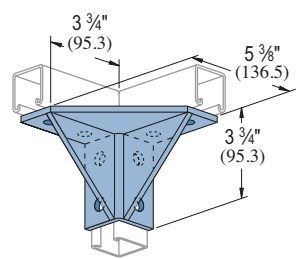
Wt/100 pcs: 176 Lbs (79.8 kg)



Wt/100 pcs: 217 Lbs (98.4 kg)



Wt/100 pcs: 310 Lbs (140.6 kg)



Wt/100 pcs: 315 Lbs (142.9 kg)

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

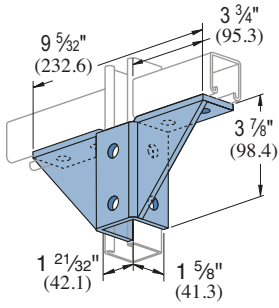
Electrical Fittings

Concrete Inserts

Solar

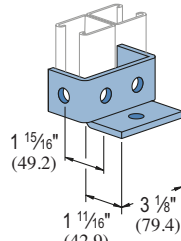
Unipier®

P2348 EG, GR, HG



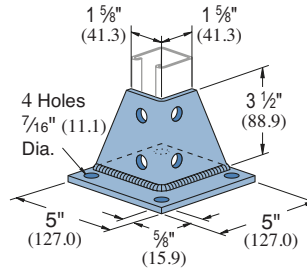
Wt/100 pcs: 274 Lbs (124.3 kg)

P2453 EG, GR, HG



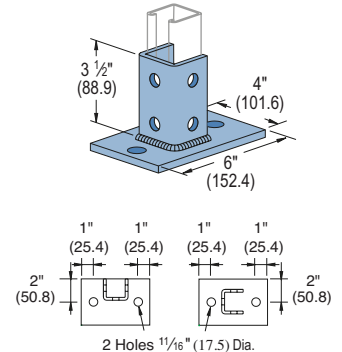
Wt/100 pcs: 116 Lbs (52.6 kg)

P1887 EG, GR, HG



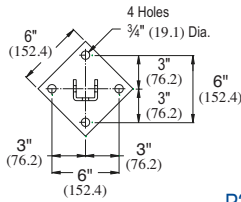
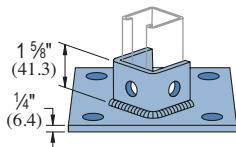
Wt/100 pcs: 297 Lbs (134.8 kg)

P2941, P2942 EG, GR, HG



Wt/100 pcs: 358 Lbs (162.4 kg)

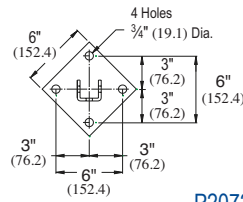
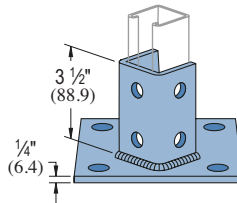
P2072, P2072 SQ EG, GR, HG



P2072

Wt/100 pcs: 307 Lbs (139.3 kg)

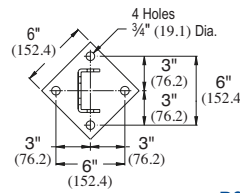
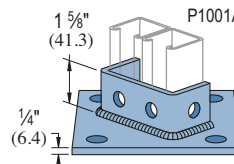
P2072A, P2072A SQ DF, EG, GR, HG



P2072A

Wt/100 pcs: 373 Lbs (169.2 kg)

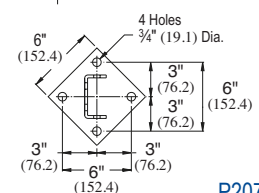
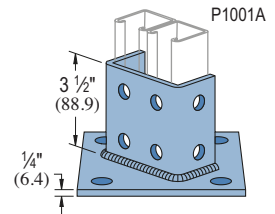
P2073, P2073 SQ EG, GR, HG



P2073

Wt/100 pcs: 325 Lbs (147.4 kg)

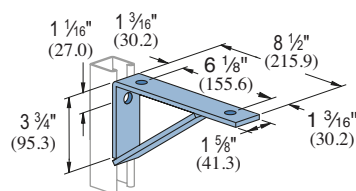
P2073A, P2073A SQ EG, GR, HG



P2073A

Wt/100 pcs: 408 Lbs (185.1 kg)

P1769 EG, GR



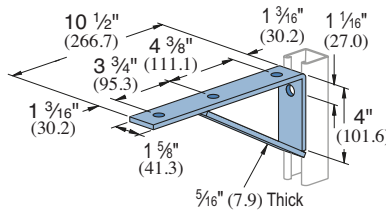
Material: 1/4" (6.4) thick steel.

Wt/100 pcs: 174 Lbs (78.9 kg)

| Part No. | Gauge | Vertical Channel | Uniform Design Load |
|----------|-------|------------------|---------------------|
| | | Lbs (kN) | Lbs (kN) |
| P1000 | 12 | 800 | 3.56 |
| P1100 | 14 | 600 | 2.67 |
| P2000 | 16 | 400 | 1.81 |

Safety Factor 2 1/2

P1771 EG, GR



Material: 1/4" (6.4) thick steel.

Wt/100 pcs: 206 Lbs (93.4 kg)

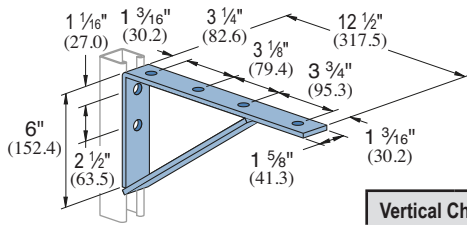
| Part No. | Gauge | Vertical Channel | Uniform Design Load |
|----------|-------|------------------|---------------------|
| | | Lbs (kN) | Lbs (kN) |
| P1000 | 12 | 800 | 3.56 |
| P1100 | 14 | 600 | 2.67 |
| P2000 | 16 | 400 | 1.81 |

Safety Factor 2 1/2

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 1/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45

P1773



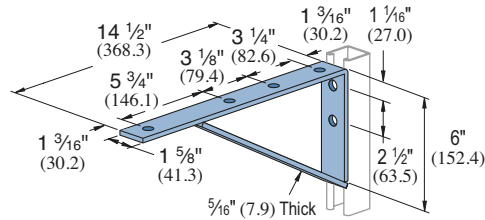
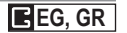
Material: 1/4" (6.4) thick steel.

| Part No. | Gauge | Vertical Channel | Uniform Design Load Lbs (kN) |
|----------|-------|------------------|------------------------------|
| P1000 | 12 | 900 | (4.00) |
| P1100 | 14 | 800 | (3.56) |
| P2000 | 16 | 450 | (2.04) |

Safety Factor 2½

Wt/100 pcs: 264 Lbs (119.7 kg)

P1775



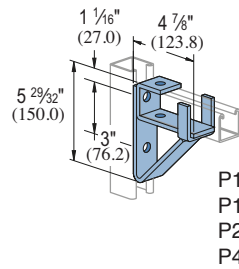
Material: 1/4" (6.4) thick steel.

| Part No. | Gauge | Vertical Channel | Uniform Design Load Lbs (kN) |
|----------|-------|------------------|------------------------------|
| P1000 | 12 | 900 | (4.00) |
| P1100 | 14 | 800 | (3.56) |
| P2000 | 16 | 450 | (2.04) |

Safety Factor 2½

Wt/100 pcs: 295 Lbs (133.8 kg)

P1075



Material: 1/4" (6.4) thick steel.

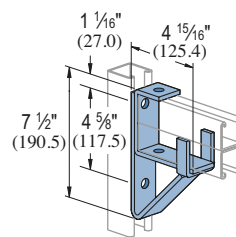
| Part No. | Gauge | Vertical Channel | Allowable Moment* In-Lbs (N·M) |
|----------|-------|------------------|--------------------------------|
| P1000 | 12 | 5,100 | (576) |
| P1100 | 14 | 4,400 | (497) |
| P2000 | 16 | 3,200 | (362) |

Safety Factor 2½

* Allowable moment for fitting only. Channel may determine overall capacity.

Wt/100 pcs: 229 Lbs (103.9 kg)

P1593



Material: 1/4" (6.4) thick steel.

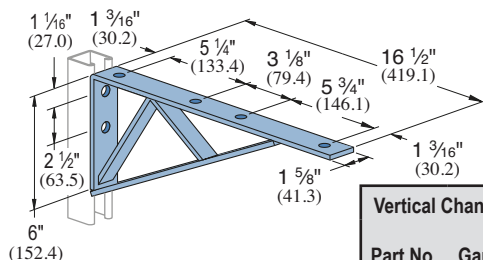
| Part No. | Gauge | Vertical Channel | Allowable Moment* In-Lbs (N·M) |
|----------|-------|------------------|--------------------------------|
| P1000 | 12 | 13,000 | 1,469 |
| P1100 | 14 | 9,100 | 1,028 |
| P2000 | 16 | 6,500 | 734 |

Safety Factor 2½

* Allowable moment for fitting only. Channel may determine overall capacity.

Wt/100 pcs: 272 Lbs (123.4 kg)

P1777



Material: 1/4" (6.4) thick steel.

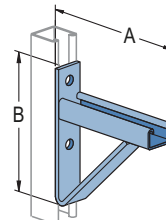
| Part No. | Gauge | Vertical Channel | Uniform Design Load Lbs (kN) |
|----------|-------|------------------|------------------------------|
| P1000 | 12 | 1,200 | (5.44) |
| P1100 | 14 | 900 | (4.00) |
| P2000 | 16 | 600 | (2.67) |

Safety Factor 2½

Wt/100 pcs: 385 Lbs (174.6 kg)

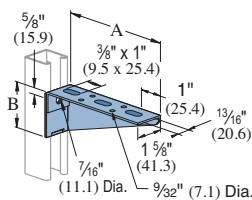
P2547 THRU P2551

CABLE TRAY BRACKET



| Part Number | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) | Uniform Load* Lbs (kN) |
|-------------|-------------|-------------|---------------------|------------------------|
| P2547 | 15 | 8¾ | 420 | 1,000 |
| | 381.0 | 222 | 190.5 | 4.45 |
| P2548 | 21 | 8¾ | 628 | 1,000 |
| | 533.4 | 222 | 284.9 | 4.45 |
| P2549 | 27 | 11¼ | 860 | 900 |
| | 685.8 | 286 | 390.1 | 4.00 |
| P2550 | 33 | 11¼ | 1010 | 900 |
| | 838.2 | 286 | 458.1 | 4.00 |
| P2551 | 39 | 16 | 1257 | 800 |
| | 990.6 | 406.4 | 683.3 | 3.56 |

P2491 R-L THRU P2493 R-L



R - As shown; L - Opposite hand

Material : 12 Gauge Steel.

| Part No. | Gauge | Vertical Channel | Uniform Design Load Lbs (kN) |
|----------|-------|------------------|------------------------------|
| P1000 | 12 | 300 | (1.33) |
| | | 250 | (1.11) |
| P1100 | 14 | 200 | (.89) |
| | | 150 | (.67) |

Safety Factor - 2½

| Part Number | Stamped Ident. No. | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|--------------------|-------------|-------------|---------------------|
| P2491 R-L | 121892 R-L | 6 | 1½/16 | 67 |
| | | 152.4 | 49.2 | 30.4 |
| P2492 R-L | 121893 R-L | 8 | 2¼/16 | 92 |
| | | 203.2 | 61.9 | 41.7 |
| P2493 R-L | 121894 R-L | 10 | 2½/16 | 120 |
| | | 254.0 | 74.6 | 54.4 |

Standard Dimensions for 1½" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1¾" (20.6mm); Hole Spacing - On Center: 1½" (47.6mm); Width: 1½" (41.3mm); Thickness: ¼" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

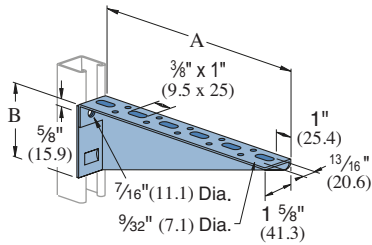
Electrical Fittings

Concrete Inserts

Solar

Unipier®

P2494 R-L THRU P2499 R-L



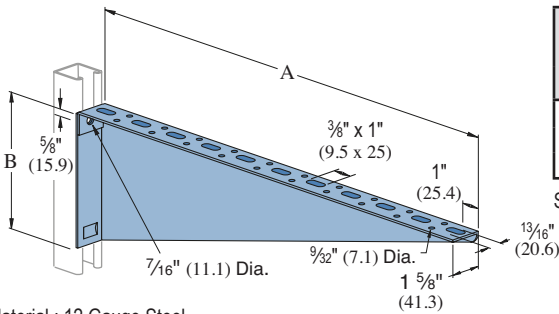
| Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|---------------------------|-------|------------------------------|
| P1000 | 12 | 300 (1.33) |
| P1100 | 14 | 250 (1.11) |
| P2000 | 16 | 200 (.89) |

Safety Factor - 2 1/2

| Part Number | Stamped Ident. No. | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|--------------------|-------------|-------------|---------------------|
| P2494 R-L | 121895 R-L | 12 | 3 7/16 | 152 |
| | | 304.8 | 87.3 | 68.9 |
| P2495 R-L | 121896 R-L | 14 | 3 9/16 | 173 |
| | | 355.6 | 100.0 | 78.5 |
| P2496 R-L | 121897 R-L | 16 | 4 1/16 | 223 |
| | | 406.4 | 112.7 | 101.2 |
| P2497 R-L | 121898 R-L | 18 | 4 3/16 | 266 |
| | | 457.2 | 125.4 | 120.7 |
| P2498 R-L | 121899 R-L | 20 | 5 1/16 | 308 |
| | | 508.0 | 138.1 | 139.7 |
| P2499 R-L | 121900 R-L | 22 | 5 3/16 | 355 |
| | | 558.8 | 150.8 | 161.0 |

Material : 12 Gauge Steel.
R - As shown; L - Opposite hand

P2500 R-L THRU P2503 R-L



| Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|---------------------------|-------|------------------------------|
| P1000 | 12 | 300 (1.33) |
| P1100 | 14 | 250 (1.11) |
| P2000 | 16 | 200 (.89) |

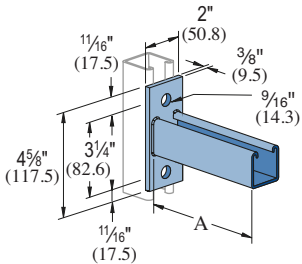
Safety Factor - 2 1/2

| Part Number | Stamped Ident. No. | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|--------------------|-------------|-------------|---------------------|
| P2500 R-L | 121901 R-L | 24 | 6 7/16 | 400 |
| | | 609.6 | 164 | 181.4 |
| P2501 R-L | 121902 R-L | 26 | 6 9/16 | 445 |
| | | 660 | 176 | 201.8 |
| P2502 R-L | 121903 R-L | 28 | 7 1/16 | 493 |
| | | 711 | 189 | 223.6 |
| P2503 R-L | 121904 R-L | 30 | 7 3/16 | 545 |
| | | 762.0 | 202 | 247.2 |

Material : 12 Gauge Steel.
R - As shown; L - Opposite hand

P2944, P2945, P2946, P2947

EG, GR, HG



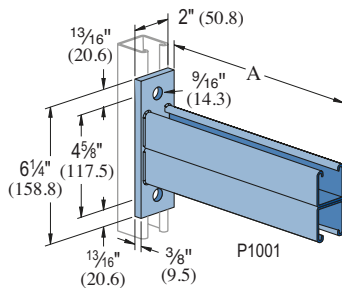
| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Uniform Load* Lbs (kN) |
|-------------|-------------|---------------------|------------------------|
| P2944 | 6 | 185 | 1200 |
| | 152.4 | 84 | 5.34 |
| P2945 | 12 | 293 | 600 |
| | 304.8 | 133 | 2.67 |
| P2946 | 18 | 401 | 400 |
| | 457.2 | 182 | 1.78 |
| P2947 | 24 | 509 | 300 |
| | 609.6 | 231 | 1.33 |

Safety Factor 2 1/2

* Mounted on 12 Ga. Channel

P2542 THRU P2546

EG, GR, HG



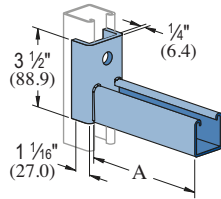
Safety Factor - 2 1/2

| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------------|---------------------------|-------|------------------------------|
| P2542 | 12 | 502 | P1000 | 12 | 2,000 (8.90) |
| | | | P1100 | 14 | 1,400 (6.23) |
| | | | P2000 | 16 | 1,000 (4.45) |
| P2543 | 18 | 692 | P1000 | 12 | 1,300 (5.78) |
| | | | P1100 | 14 | 900 (4.00) |
| | | | P2000 | 16 | 650 (2.89) |
| P2544 | 24 | 882 | P1000 | 12 | 1,000 (4.45) |
| | | | P1100 | 14 | 700 (3.11) |
| | | | P2000 | 16 | 500 (2.22) |
| P2545 | 30 | 1,072 | P1000 | 12 | 800 (3.56) |
| | | | P1100 | 14 | 560 (2.49) |
| | | | P2000 | 16 | 400 (1.78) |
| P2546 | 36 | 1,262 | P1000 | 12 | 650 (2.89) |
| | | | P1100 | 14 | 450 (2.00) |
| | | | P2000 | 16 | 320 (1.42) |

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 1/16" (20.6mm); Hole Spacing - On Center: 1 1/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLA GR 45

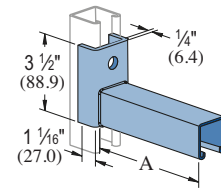
P2231, P2232



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------------|---------------------------|-------|------------------------------|
| P2231 | 6 | 191 | P1000 | 12 | 1,600 (7.12) |
| | 152.4 | 86.6 | P1100 | 14 | 1,200 (5.34) |
| | | | P2000 | 16 | 800 (3.56) |
| P2232 | 12 | 292 | P1000 | 12 | 800 (3.56) |
| | 304.8 | 132.4 | P1100 | 14 | 600 (2.67) |
| | | | P2000 | 16 | 400 (1.78) |

Safety Factor - 2½

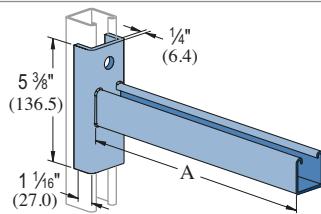
P2231A, P2232A



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------------|---------------------------|-------|------------------------------|
| P2231A | 6 | 191 | P1000 | 12 | 1,600 (7.12) |
| | 152.4 | 86.6 | P1100 | 14 | 1,200 (5.34) |
| | | | P2000 | 16 | 800 (3.56) |
| P2232A | 12 | 292 | P1000 | 12 | 800 (3.56) |
| | 304.8 | 132.4 | P1100 | 14 | 600 (2.67) |
| | | | P2000 | 16 | 400 (1.78) |

Safety Factor - 2½

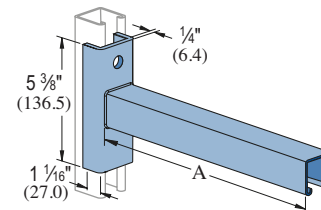
P2233, P2234



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------------|---------------------------|-------|------------------------------|
| P2233 | 18 | 436 | P1000 | 12 | 600 (2.67) |
| | 457.2 | 197.8 | P1100 | 14 | 450 (2.00) |
| | | | P2000 | 16 | 300 (1.33) |
| P2234 | 24 | 536 | P1000 | 12 | 450 (2.00) |
| | 609.6 | 243.1 | P1100 | 14 | 330 (1.47) |
| | | | P2000 | 16 | 220 (.98) |

Safety Factor - 2½

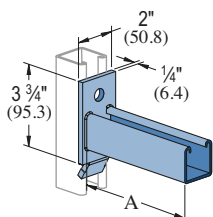
P2233A, P2234A



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------------|---------------------------|-------|------------------------------|
| P2233A | 18 | 436 | P1000 | 12 | 600 (2.67) |
| | 457.2 | 197.8 | P1100 | 14 | 450 (2.00) |
| | | | P2000 | 16 | 300 (1.33) |
| P2234A | 24 | 536 | P1000 | 12 | 450 (2.00) |
| | 609.6 | 243.1 | P1100 | 14 | 330 (1.47) |
| | | | P2000 | 16 | 220 (.98) |

Safety Factor - 2½

P2513 THRU P2516

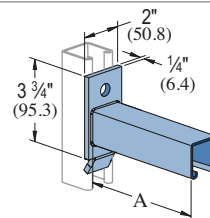


When installed in inverted position use 60% of loads shown.

Safety Factor 2½

| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------------|---------------------------|-------|------------------------------|
| P2513 | 6 | 161 | P1000 | 12 | 1,200 (5.34) |
| | 152.4 | 73.0 | P1100 | 14 | 800 (3.56) |
| | | | P2000 | 16 | 600 (2.67) |
| P2514 | 12 | 261 | P1000 | 12 | 600 (2.67) |
| | 304.8 | 118.4 | P1100 | 14 | 400 (1.78) |
| | | | P2000 | 16 | 300 (1.33) |
| P2515 | 18 | 361 | P1000 | 12 | 400 (1.78) |
| | 457.2 | 163.7 | P1100 | 14 | 270 (1.20) |
| | | | P2000 | 16 | 200 (.89) |
| P2516 | 24 | 461 | P1000 | 12 | 300 (1.33) |
| | 609.6 | 209.1 | P1100 | 14 | 200 (.89) |
| | | | P2000 | 16 | 150 (.67) |

P2513A THRU P2516A



When installed in inverted position use 60% of loads shown.

Safety Factor 2½

| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Vertical Channel Part No. | Gauge | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------------|---------------------------|-------|------------------------------|
| P2513A | 6 | 161 | P1000 | 12 | 1,200 (5.34) |
| | 152.4 | 73.0 | P1100 | 14 | 800 (3.56) |
| | | | P2000 | 16 | 600 (2.67) |
| P2514A | 12 | 261 | P1000 | 12 | 600 (2.67) |
| | 304.8 | 118.4 | P1100 | 14 | 400 (1.78) |
| | | | P2000 | 16 | 300 (1.33) |
| P2515A | 18 | 361 | P1000 | 12 | 400 (1.78) |
| | 457.2 | 163.7 | P1100 | 14 | 270 (1.20) |
| | | | P2000 | 16 | 200 (.89) |
| P2516A | 24 | 461 | P1000 | 12 | 300 (1.33) |
| | 609.6 | 209.1 | P1100 | 14 | 200 (.89) |
| | | | P2000 | 16 | 150 (.67) |

Standard Dimensions for 1½" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 5/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 1/8" (47.6mm); Width: 1 1/2" (41.3mm); Thickness: 1/4" (6.4mm)



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

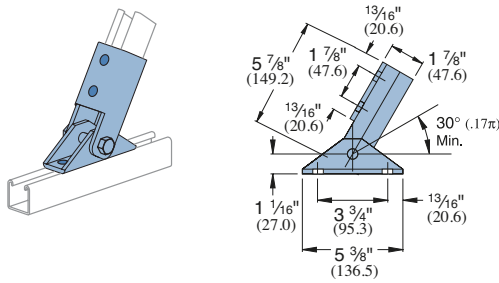
Concrete Inserts

Solar

Unipier®

P2815

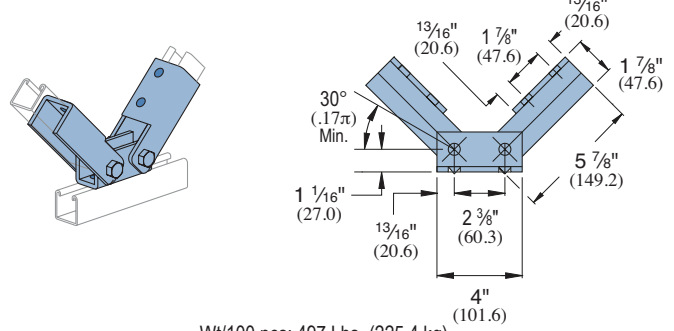
ADJUSTABLE BRACE FITTING **EG HG**



Wt/100 pcs: 307 Lbs (139.3 kg)

P2815D

ADJUSTABLE BRACE FITTING

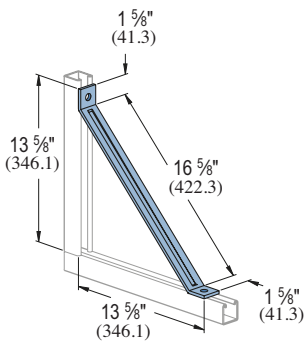


Wt/100 pcs: 497 Lbs (225.4 kg)

P2452 KNEE BRACE **EG GR**

P2458-18 THRU P2458-36

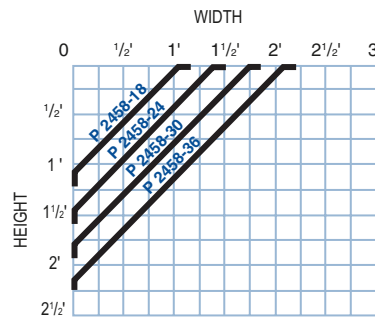
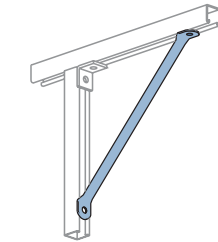
TUBULAR KNEE BRACES



Design Axial Load
1200 Lbs (5.34 kN)

Material: 1/4" (6.4) thick steel.

Wt/100 pcs: 277 Lbs (125.6 kg)

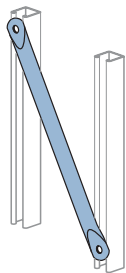


| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|---------------------|
| P2458-18 | 18 | 146 |
| | 457.2 | 66.2 |
| P2458-24 | 24 | 186 |
| | 609.6 | 84.4 |
| P2458-30 | 30 | 227 |
| | 762.0 | 103.0 |
| P2458-36 | 36 | 267 |
| | 914.4 | 121.1 |

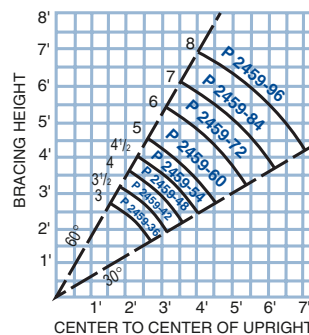
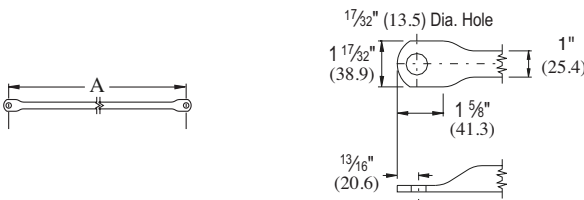
Design Loads
Compression = 1500 Lbs (6.67 kN)
Tension = 300 Lbs (1.33 kN)

P2459-36 THRU P2459-96

TUBULAR BACK BRACES **EG GR**



1. The vertical lines of the graph correspond to the center to center line dimension of the uprights.
2. Along this vertical line locate the (maximum usable) horizontal bracing height line.
3. The arc line that intersects the point formed by the intersection of the two lines, indicates the brace required.
4. 30° - 60° maximum, minimum brace angles are indicated for maximum effect.

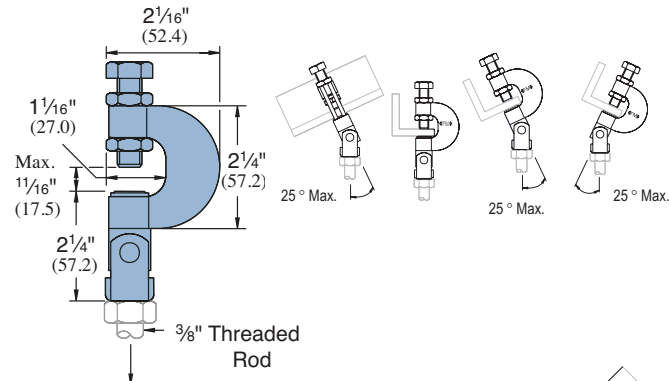


| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|---------------------|
| P2459-36 | 36 | 255 |
| | 914.4 | 115.7 |
| P2459-42 | 42 | 296 |
| | 1,066.8 | 134.3 |
| P2459-48 | 48 | 336 |
| | 1,219.2 | 152.4 |
| P2459-54 | 54 | 377 |
| | 1,371.6 | 171.0 |
| P2459-60 | 60 | 418 |
| | 1,524.0 | 189.6 |
| P2459-72 | 72 | 499 |
| | 1,828.8 | 226.3 |
| P2459-84 | 84 | 580 |
| | 2,133.6 | 263.1 |
| P2459-96 | 96 | 661 |
| | 2,438.4 | 299.8 |

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 1/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45

P2897

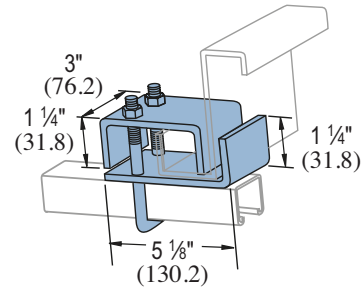


Design Load (Safety Factor of 4)
 (angles ≤ 25°) - 550 Lbs (2.45 kN)
 (angles > 25°) - 330 Lbs (1.47 kN)

Safety Factor 4
 Torque: 13 Ft-Lbs (18 N·m)

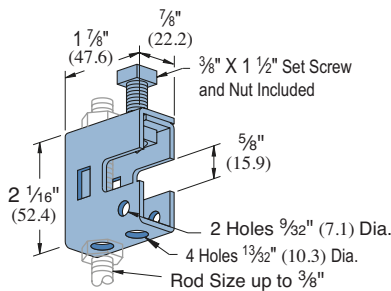
Wt/100 pcs: 33 Lbs (15.0 kg)

P2784



| Part Number | For Use With | Load Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|---------------------|---------------|---------------------|
| P2784-1 | P1000, P1100, P2000 | 1,200 | 175 |
| | | 5.34 | 79.3 |
| P2784-2 | P1001, P1101, P2001 | 1,200 | 179 |
| | | 5.34 | 81.1 |
| P2784-3 | P5001, P5501 | 1,200 | 180 |
| | | 5.34 | 81.5 |

P2675

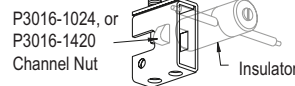


Design Load
 250 Lbs (1.11 kN)

Design Load
 150 Lbs (.67 kN)

Clamp Materials: .105" (2.7) thick steel.
 Clamp P2675 is designed for light duty rod suspension.
 It also may be used with P3016-1024 or P3016-1420 nut as illustrated above for mounting insulators, etc.

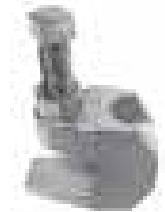
Wt/100 pcs: 33 Lbs (15.0 kg)



P8000, P8001 – JUNIOR DUCTILE IRON TOP BEAM CLAMP

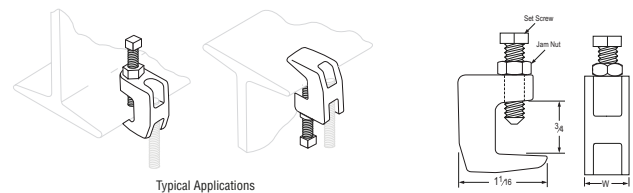
Material: 3/8" and 1/2" rod sizes
Finish: Plain (PL) and Electro-Galvanized (EG)
Function: Structural attachment to top or bottom of metal beams, purlins, channel, or angle iron

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 Lbs* | Max Load Bottom Lbs* | Weight Lbs | W |
|---------------------|----------|-------------------|----------------------|------------|--------|
| P8000 | 3/8 | 500 | 250 | 0.33 | 7/8 |
| P8001 | 1/2 | 950 | 760 | 0.34 | 1 1/16 |

NOTE: *Max load may exceed allowable load for threaded rod size shown.

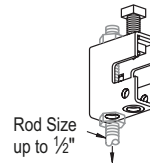
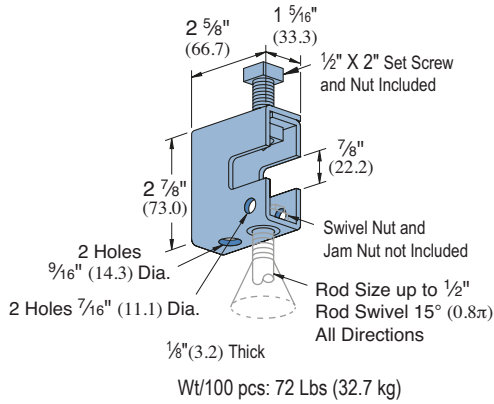


Note: When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.



EG GR

P2676



Design Load
300 Lbs (1.33 kN)



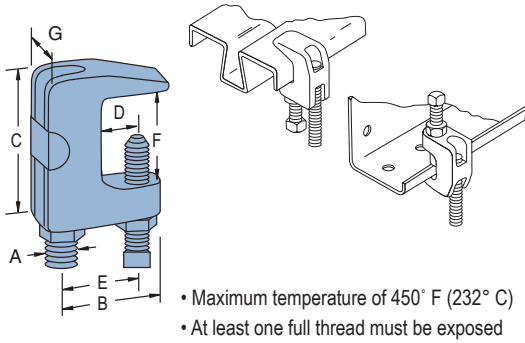
Design Load
500 Lbs (2.22 kN)

Clamp P2676 provides a means of rod suspension where a free swing of up to 15° (0.8π) is required. Clamp will accommodate 1/4" (6.4), 3/8" (9.5), or 1/2" (12.7) rods. Order swivel nuts P2679-4, -6, or -8 as required. Clamp may also be used with P2677 as illustrated in application drawings.

Clamp Materials: 1/8" (3.2) thick steel. Not available in SS or ST.

P2898

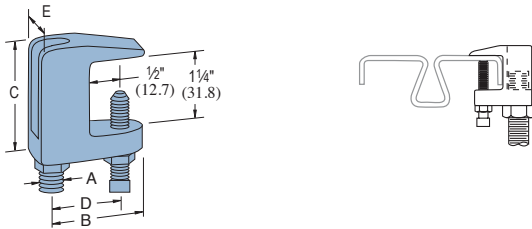
UNIVERSAL BEAM CLAMP EG



| | A | B | C | D | E | F | G | Max Load | Wt/100 pcs |
|----------|-----|---------|---------|---------|---------|---------|---------|----------|------------|
| | In | In (mm) | In (mm) | In (mm) | In (mm) | In (mm) | In (mm) | Lbs (kN) | Lbs (kg) |
| P2898-37 | 3/8 | 1 | 1 1/2 | 1/2 | 1 | 3/4 | 7/8 | 400 | 33 |
| | | 25.4 | 38.1 | 12.7 | 25.4 | 19.1 | 22.2 | 1.78 | 15.0 |
| P2898-50 | 1/2 | 1 5/16 | 1 1/2 | 1/2 | 1 | 3/4 | 7/8 | 500 | 33 |
| | | 25.4 | 38.1 | 12.7 | 25.4 | 19.1 | 22.2 | 2.22 | 15.0 |
| P2898-62 | 5/8 | 1 1/2 | 1 1/2 | 1/2 | 1 | 3/4 | 1 | 600 | 22 |
| | | 38.1 | 38.1 | 12.7 | 25.4 | 19.1 | 25.4 | 2.67 | 10.0 |
| P2898-75 | 3/4 | 1 7/8 | 1 3/4 | 5/8 | 1 1/8 | 1 | 1 1/4 | 800 | 88 |
| | | 47.6 | 44.5 | 15.9 | 34.9 | 25.4 | 31.8 | 3.56 | 40.0 |
| P2898-87 | 7/8 | 2 | 1 3/4 | 5/8 | 1 1/2 | 1 | 1 1/4 | 1,200 | 79 |
| | | 50.8 | 44.5 | 15.9 | 38.1 | 25.4 | 31.8 | 5.34 | 35.9 |

P2899

WIDE THROAT BEAM CLAMP EG



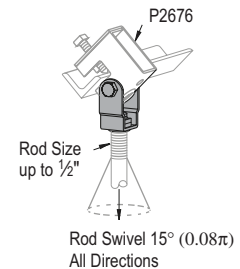
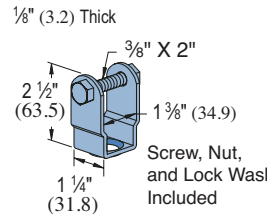
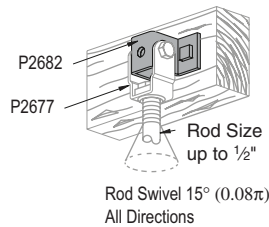
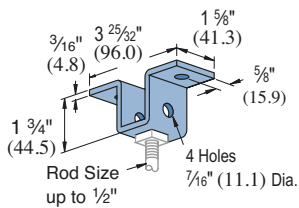
| | Rod Size | | | | | Max. Load | Wt/100 pcs |
|----------|----------|---------|---------|---------|---------|-----------|------------|
| | A | B | C | D | E | | |
| | In | In (mm) | In (mm) | In (mm) | In (mm) | Lbs (kN) | Lbs (kg) |
| P2899-37 | 3/8 | 1 1/2 | 2 | 1 | 7/8 | 400 | 28 |
| | | 41.3 | 50.8 | 25.4 | 22.2 | 1.78 | 12.7 |
| P2899-50 | 1/2 | 1 5/8 | 2 | 1 | 7/8 | 500 | 34 |
| | | 41.3 | 50.8 | 25.4 | 22.2 | 2.22 | 15.4 |
| P2899-62 | 5/8 | 1 3/4 | 2 1/4 | 1 1/4 | 1 | 600 | 66 |
| | | 44.5 | 57.2 | 31.8 | 25.4 | 2.67 | 30.0 |
| P2899-75 | 3/4 | 1 7/8 | 2 3/8 | 1 3/8 | 1 1/4 | 800 | 83 |
| | | 47.6 | 60.3 | 34.9 | 31.8 | 3.56 | 37.7 |

P2682

EG

P2677

EG

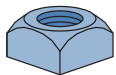


Hanger clevis for up to 1/2" (12.7) rod suspension from wood ceilings. May also be used with P2677 as illustrated in application drawings.

Wt/100 pcs: 55 Lbs (24.9 kg)

P2679-4, -6 & -8

SWIVEL NUT EG



| Part No. | Thread Size | Wt/100 pcs | Lbs (kg) |
|----------|-------------|------------|----------|
| P2679-4 | 1/4"-20 | 4 | (1.8) |
| P2679-6 | 3/8"-16 | 5 | (2.3) |
| P2679-8 | 1/2"-13 | 6 | (2.7) |

• Use w/P2676 and P2677.
• Order size as required.

Clevis hanger to be used with P2676 or P2682 to provide angle adjustment and 15° (0.08 π) free swing for up to 1/2" (12.7) rod suspension. Order swivel nuts P2679-4, -6, or -8 as required.

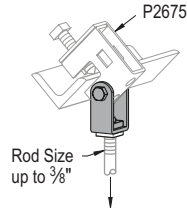
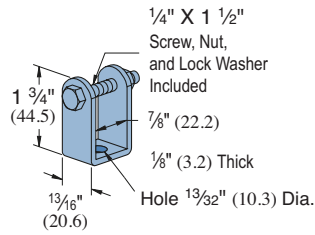
Design Load
500 Lbs (2.22 kN)

Wt/100 pcs: 30 Lbs (13.6 kg)

Note: When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.

P2674

EG GR



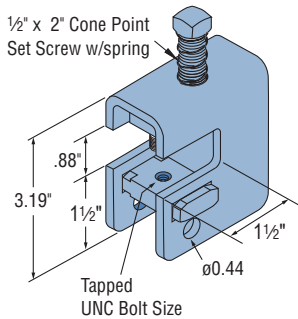
Clevis hanger to be used with P2675 to provide angle adjustment for up to 3/8" rod suspension as illustrated.

Design Load
250 Lbs (1.11 kN)

Wt/100 pcs: 17 Lbs (7.7 kg)

P1640

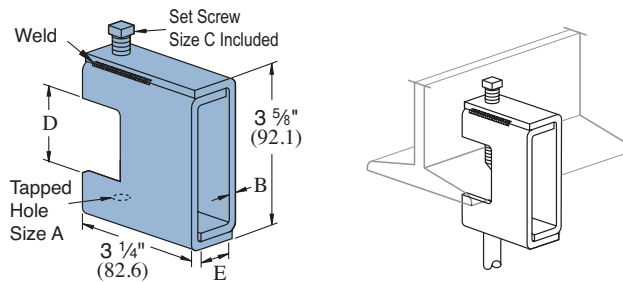
EG GR



| Part Number | Thread Size |
|-------------|-------------|
| P1640-025 | 1/4"-20 |
| P1640-037 | 3/8"-16 |
| P1640-050 | 1/2"-13 |

P2398S, P2401S, P2403S, P2405S

EG GR



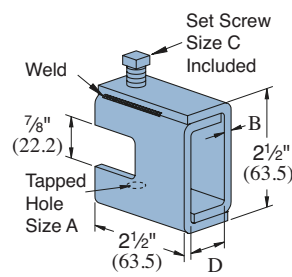
Weld is not continuous it is either 1 1/4" (31.8) - 1 3/4" (44) long or 2 spot welds. All welds are on the top and bottom.

For beams between 3/4" (19.1) to 1 5/8" (41.3) thick flanges.

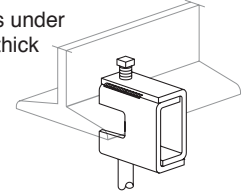
| Part Number | "A" In | "B" In (mm) | "C" In | "D" In (mm) | "E" In (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|-------------|----------|-------------|---------|-------------|-------------|---------------------|----------------------|
| P2398S | 1/4 - 20 | 3.2 | 3/8 x 2 | 1 1/2 | 7/8 | 109 | 800 |
| P2401S | 3/8 - 16 | 4.8 | 1/2 x 2 | 1 1/16 | 29/32 | 156 | 1,300 |
| P2403S | 1/2 - 13 | 6.4 | 1/2 x 2 | 1 1/16 | 15/16 | 201 | 1,900 |
| P2405S | 5/8 - 11 | 7.9 | 5/8 x 2 | 1 1/16 | 15/16 | 311 | 2,400 |

P1648S THRU P1653S

EG GR



For beams under 7/8" (22.2) thick flange.

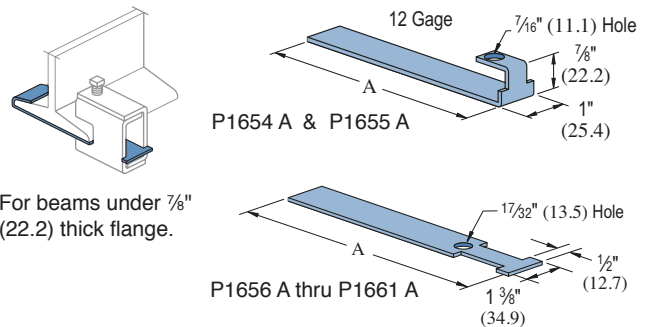


Weld is not continuous it is either 1 1/4" (31.8) - 1 3/4" (44.5) long or 2 spot welds. All welds are on the top and bottom.

| Part Number | "A" In | "B" In (mm) | "C" In | "D" In (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|-------------|-----------|-------------|-------------|-------------|---------------------|----------------------|
| P1648S | 1/4 - 20 | 3.2 | 3/8 x 1 1/2 | 7/8 | 67 | 650 |
| P1649S | 5/16 - 18 | 3.2 | 3/8 x 1 1/2 | 7/8 | 67 | 650 |
| P1650S | 3/8 - 16 | 4.8 | 1/2 x 1 1/2 | 15/16 | 100 | 1,100 |
| P1651S | 1/2 - 13 | 6.4 | 1/2 x 1 1/2 | 15/16 | 130 | 1,600 |
| P1652S | 5/8 - 11 | 7.9 | 5/8 x 1 1/2 | 15/16 | 160 | 2,400 |
| P1653S | 3/4 - 10 | 7.9 | 5/8 x 1 1/2 | 15/16 | 160 | 2,400 |

P1654A THRU P1661A

RETAINER STRAP EG GR



For beams under 7/8" (22.2) thick flange.

| Strap Part Number | Flange Width In (mm) | "A" In (mm) | Wt/100 pcs Lbs (kg) | Beam Clamp Used With |
|-------------------|----------------------|-------------|---------------------|---|
| P1654 A | 6 152.4 | 7 177.8 | 25 11.3 | P2675 |
| P1655 A | 9 228.6 | 10 254.0 | 34 15.4 | P2675 |
| P1656 A | 6 152.4 | 9 228.6 | 35 15.9 | P1648 S Thru P1651 S, P2398S, P2401S & P2403S |
| P1657 A | 9 228.6 | 12 304.8 | 47 21.3 | |
| P1658 A | 12 304.8 | 15 381.0 | 59 26.8 | |
| P1659 A | 6 152.4 | 9 228.6 | 33 15.0 | P2676 |
| P1660 A | 9 228.6 | 12 304.8 | 45 20.4 | P2676 |
| P1661 A | 12 304.8 | 15 381.0 | 57 25.9 | P2676 |

Note: When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

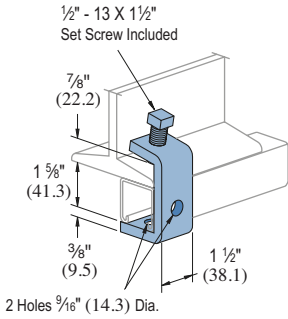
Electrical Fittings

Concrete Inserts

Solar

Unipier®

P1271S DF, EG, GR, HG

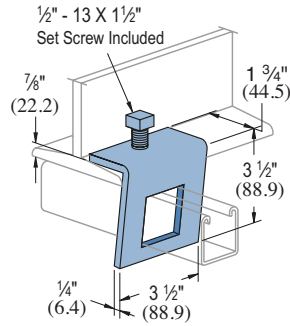


Note: Requires P1010 Channel Nut and bolt.

Design Load Each
500 Lbs (2.22 kN)
Use in Pairs Only

Wt/100 pcs: 95 Lbs (43.1 kg)

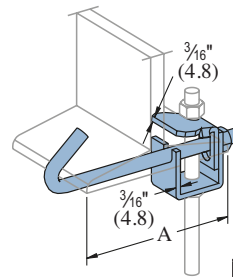
P1796S EG GR HG



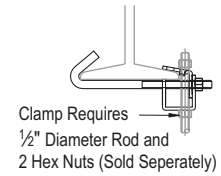
Design Load Each
500 Lbs (2.22 kN)
Use in Pairs Only

Wt/100 pcs: 91 Lbs (41.3 kg)

P2824-6,-9,-12 EG GR HG

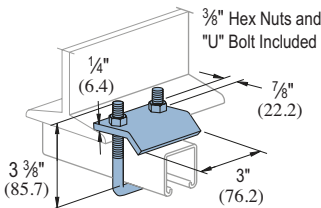


For use with Beams up to 3/4" (19.1) max flange thickness



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|-------------|---------------|---------------------|----------------------|
| P2824-6 | 2 1/2 - 6 | 125 | 500 |
| | 63.5 - 152.4 | 56.7 | 2.22 |
| P2824-9 | 5 1/2 - 9 | 140 | 500 |
| | 139.7 - 228.6 | 63.5 | 2.22 |
| P2824-12 | 8 1/2 - 12 | 171 | 500 |
| | 215.9 - 304.8 | 77.6 | 2.22 |

P2785 DF, EG, GR, HG

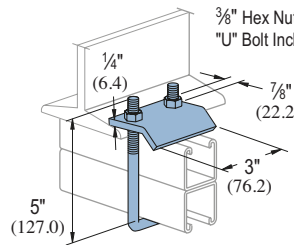


• For use with Beams up to 3/4" (19.1) Flanges and with Channels P1000, P1100, P2000, P3000, P3300, P3301, P4000, P4001, P4100, and P4101.

Design Load Each
1000 Lbs (4.45 kN)
Use in Pairs Only

Wt/100 pcs: 83 Lbs (37.6 kg)

P2786 DF, EG, GR, HG

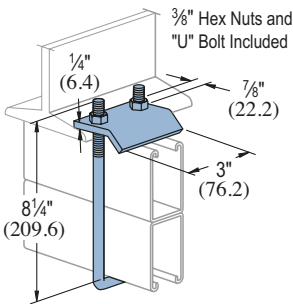


• For use with Beams up to 3/4" (19.1) Flanges and with Channels P1001, P1101, P2001, P3001, P5000, and P5500.

Design Load Each
1000 Lbs (4.45 kN)
Use in Pairs Only

Wt/100 pcs: 92 Lbs (41.7 kg)

P2787 DF, EG, HG

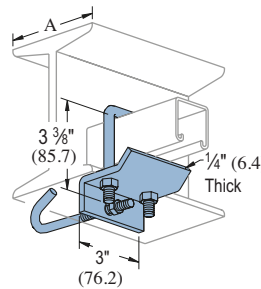


• For use with Beams up to 3/4" (19.1) Flanges and with Channels P5001 and P5501.

Design Load Each
1000 Lbs (4.45 kN)
Use in Pairs Only

Wt/100 pcs: 112 Lbs (50.8 kg)

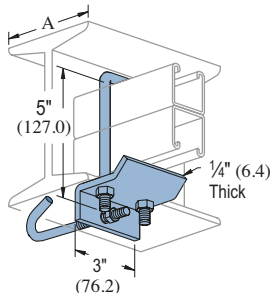
P2867 EG GR HG



| Part Number | Beam Size "A" | Wt/100 pcs Lbs (kg) |
|-------------|---------------|---------------------|
| P2867 | 4"-6" | 142 (64.4) |
| P2867-9 | 6"-9" | 151 (68.5) |
| P2867-12 | 9"-12" | 160 (72.6) |
| P2867-15 | 12"-15" | 170 (77.1) |
| P2867-18 | 15"-18" | 179 (81.2) |

• Includes: "J" Bolt, "U" Bolt and Hex Nuts.
• For use with Channels P1000, P1100, P2000, P3000, P3300, P3301, P4000, P4001, P4100, and P4101.

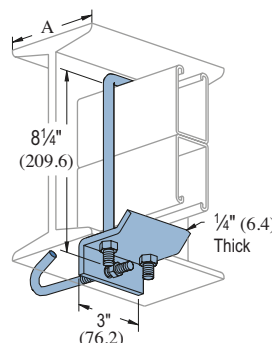
P2867A EG GR HG



| Part Number | Beam Size "A" | Wt/100 pcs Lbs (kg) |
|-------------|---------------|---------------------|
| P2867A | 4"-6" | 151 (68.5) |
| P2867A-9 | 6"-9" | 157 (71.2) |
| P2867A-12 | 9"-12" | 166 (75.3) |
| P2867A-15 | 12"-15" | 176 (79.8) |
| P2867A-18 | 15"-18" | 185 (83.9) |

• Includes: "J" Bolt, "U" Bolt and Hex Nuts.
• For use with Channel P1001, P1101, P2001, P3001, P5000, and P5500.

P2867B EG GR HG



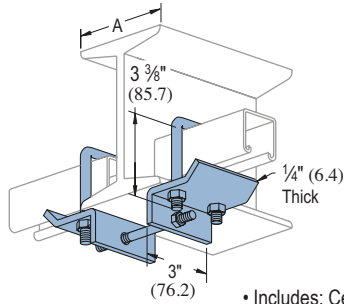
| Part Number | Beam Size "A" | Wt/100 pcs Lbs (kg) |
|-------------|---------------|---------------------|
| P2867B | 4"-6" | 161 (73.0) |
| P2867B-9 | 6"-9" | 167 (75.7) |
| P2867B-12 | 9"-12" | 176 (79.8) |
| P2867B-15 | 12"-15" | 186 (84.4) |
| P2867B-18 | 15"-18" | 195 (88.5) |

• Includes: "J" Bolt, "U" Bolt and Hex Nuts.
• For use with Channel P5001, and P5501.

Note: When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.

P2868

EG GR HG

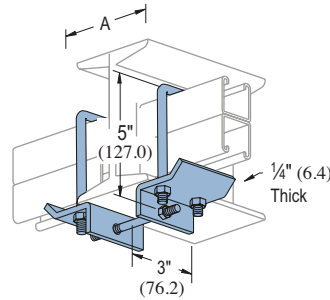


| Part Number | Beam Size "A" | Wt/100 pcs Lbs (kg) |
|-------------|---------------|---------------------|
| P2868 | 4"-6" | 282 (127.9) |
| P2868-9 | 6"-9" | 289 (131.1) |
| P2868-12 | 9"-12" | 296 (134.3) |
| P2868-15 | 12"-15" | 304 (137.9) |
| P2868-18 | 15"-18" | 311 (141.1) |

- Includes: Center Rod, "U" Bolts and Hex Nuts.
- For use with Channels P1000, P1100, P2000, P3000, P3300, P3301, P4000, P4001, P4100, and P4101.

P2868A

EG GR HG

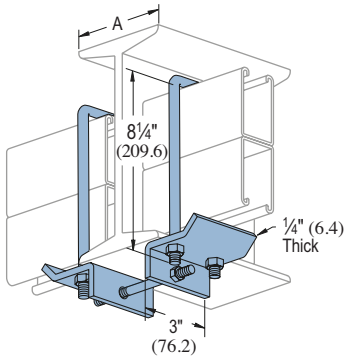


| Part Number | Beam Size "A" | Wt/100 pcs Lbs (kg) |
|-------------|---------------|---------------------|
| P2868A | 4"-6" | 300 (136.1) |
| P2868A-9 | 6"-9" | 307 (139.3) |
| P2868A-12 | 9"-12" | 314 (142.2) |
| P2868A-15 | 12"-15" | 322 (146.1) |
| P2868A-18 | 15"-18" | 329 (149.2) |

- Includes: Center Rod, "U" Bolts and Hex Nuts.
- For use with Channels P1001, P1101, P2001, P3001, P5000, and P5500.

P2868B

EG GR HG

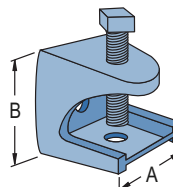


| Part Number | Beam Size "A" | Wt/100 pcs Lbs (kg) |
|-------------|---------------|---------------------|
| P2868B | 4"-6" | 320 (145.1) |
| P2868B-9 | 6"-9" | 327 (148.3) |
| P2868B-12 | 9"-12" | 334 (151.5) |
| P2868B-15 | 12"-15" | 342 (155.1) |
| P2868B-18 | 15"-18" | 349 (153.3) |

- Includes: Center Rod, "U" Bolts and Hex Nuts.
- For use with Channels P5001, and P5501.

P2894

EG

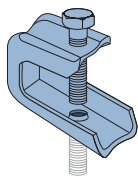


Material: Malleable Iron
 7/8" Maximum Flange Thickness
 Note: Tapped Hole on Top and Bottom

| Part Number | Rod Size In | "A" In (mm) | "B" In (mm) | Load Ratings Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|-------------|-------------|-----------------------|---------------------|
| P2894-25 | 1/4 | 1 1/8 | 1 1/4 | 150 | 23 |
| | | 28.6 | 31.8 | .67 | 10.4 |
| P2894-37 | 3/8 | 2 | 2 | 350 | 95 |
| | | 50.8 | 50.8 | 1.56 | 43.1 |
| P2894-50 | 1/2 | 2 5/8 | 2 1/2 | 400 | 195 |
| | | 66.7 | 63.5 | 1.78 | 88.5 |

P2893

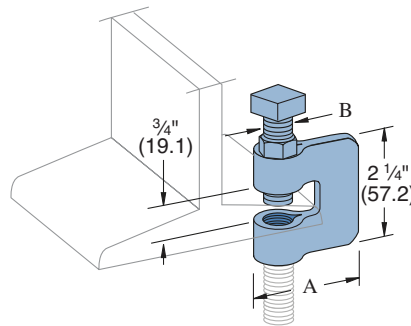
EG



Material: Steel
 Use With: 1/4" rod
 Load Rating: 75 lbs. (.33 kN)

Wt/100 pcs: 14 lbs. (6.4 kg)

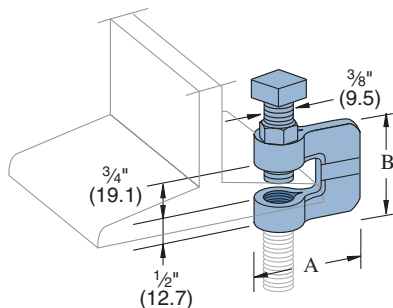
P2895



Material: Steel

| Part Number | Rod Size In | "A" In (mm) | "B" In (mm) | Load Ratings Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|-------------|-------------|-----------------------|---------------------|
| P2895-37 | 3/8 | 2 5/16 | 3/8 | 330 | 35 |
| | | 58.7 | 9.5 | 1.47 | 15.9 |
| P2895-50 | 1/2 | 2 1/4 | 1/2 | 380 | 41 |
| | | 57.2 | 12.7 | 1.69 | 18.6 |
| P2895-62 | 5/8 | 2 3/8 | 5/8 | 450 | 67 |
| | | 60.3 | 15.9 | 2.00 | 30.4 |
| P2895-75 | 3/4 | 2 1/4 | 1/2 | 500 | 72 |
| | | 57.2 | 12.7 | 2.22 | 32.7 |

P2896



Material: Malleable Iron,
 Steel Set Screw

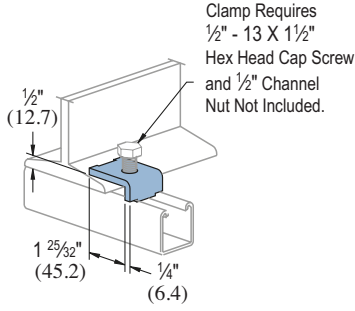
| Part Number | Rod Size In | "A" In (mm) | "B" In (mm) | Load Ratings Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|-------------|-------------|-----------------------|---------------------|
| P2896-37 | 3/8 | 1 11/16 | 1 1/4 | 400 | 38 |
| | | 42.9 | 44.5 | 1.78 | 17.2 |
| P2896-50 | 1/2 | 1 23/32 | 1 3/4 | 400 | 52 |
| | | 43.7 | 44.5 | 1.78 | 23.6 |
| P2896-62 | 5/8 | 1 5/16 | 2 | 450 | 68 |
| | | 49.2 | 50.8 | 2.00 | 30.8 |
| P2896-75 | 3/4 | 2 1/32 | 2 | 600 | 128 |
| | | 51.6 | 50.8 | 2.67 | 58.1 |

Note: When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.



P1386

DF, EG, GR, HG

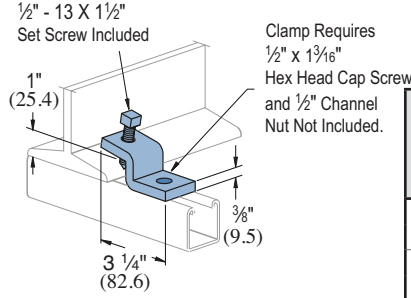


| Channel Style | Design Load Each (Use in Pairs Only) Lbs (kN) |
|---------------|---|
| P1000 | 600 2.67 |
| P1100 | 500 2.22 |
| P2000 | 450 2.00 |

Wt/100 pcs: 27 Lbs (12.2 kg)

P1379S

EG GR HG

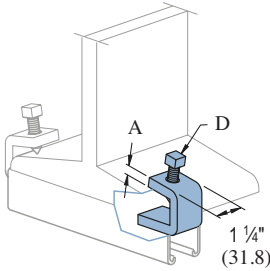


| Channel Style | Design Load Each (Use in Pairs Only) Lbs (kN) |
|---------------|---|
| P1000 | 600 2.67 |
| P1100 | 500 2.22 |
| P2000 | 450 2.00 |

Wt/100 pcs: 75 Lbs (34.0kg)

P1272S, P1985S, P1986S

EG GR HG

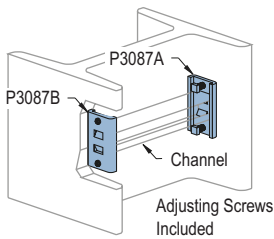


| Part Number | "A" In (mm) | Flange Thickness In (mm) | "D" Set Screw Included | Wt/100 pcs Lbs (kg) | Design Load Per Pair (Use in Pairs Only) Lbs (kN) |
|-------------|-------------|--------------------------|------------------------|---------------------|---|
| P1272S | 1/4 6.4 | Up to 3/4 Up to 19.1 | 3/8-16 x 1 1/2 | 39 17.7 | 450 2.00 |
| P1985S | 3/8 9.5 | Up to 3/4 Up to 19.1 | 1/2-13 x 1 1/2 | 62 28.1 | 1,000 4.45 |
| P1986S | 3/8 9.5 | 7/8 to 2 22.2 - 50.8 | 1/2-13 x 1 1/2 | 74 33.6 | 900 4.00 |

P3087

COLUMN INSERT

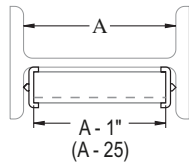
EG



| Channel Part Number | Design Pull Out Load Lbs (kN) | Design Slip Load Lbs (kN) |
|---------------------|-------------------------------|---------------------------|
| P1000 | 1,000 4.45 | 800 3.56 |
| P1100 | 700 3.34 | 500 2.22 |
| P2000 | 500 2.22 | 300 1.33 |

Safety factor of 3.

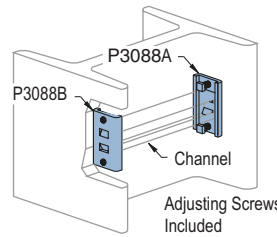
- Adjusting Screws Included.
- Unistrut channel not included.
- Part number P3087 consists of:
 - (1) piece P3087A,
 - (1) piece P3087B and
 - (2) set screws, 3/8" Dia.



Wt/100 pcs: 136 Lbs (61.7 kg)

P3088

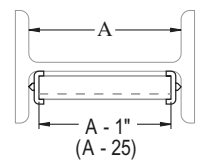
COLUMN INSERT



| Channel Part Number | Design Pull Out Load Lbs (kN) | Design Slip Load Lbs (kN) |
|---------------------|-------------------------------|---------------------------|
| P3300 | 1,000 4.45 | 800 3.56 |
| P4100 | 700 3.11 | 500 2.22 |
| P4000 | 500 2.22 | 300 1.33 |

Safety factor of 3.

- Adjusting Screws Included.
- Unistrut channel not included.
- Part number P3088 consists of:
 - (1) piece P3088A,
 - (1) piece P3088B and
 - (2) set screws, 3/8" Dia.

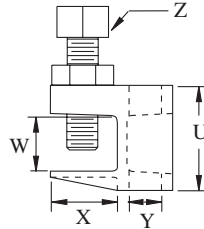
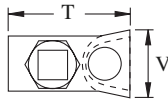
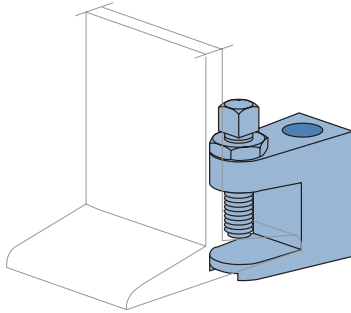


Wt/100 pcs: 120 Lbs (54.4 kg)

Note: When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.

PFL050T

FLANGE CLAMP



Material: Malleable Iron.

Cup point set screw and lock nut included.

Set Screw Torque = 6 Ft-Lb
Lock Nut Torque = 16 Ft-Lb

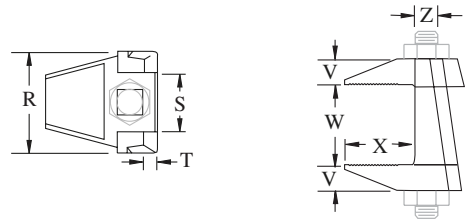
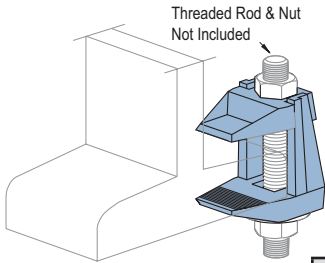
Safety Factor: 4

| Part Number | Type of Hole | Rod Size | "Z" Set Screw Size | Wt/100 pcs Lbs (kg) | Max. Allowable Load Lbs (kN) |
|-------------|--------------|----------|--------------------|---------------------|------------------------------|
| PFL050 | Clear | 1/2" | 3/8" | 40 (18.1) | 700 (3.11) |
| PFL050T | Tapped | 1/2" | 3/8" | 40 (18.1) | 700 (3.11) |

| Part Number | Dimensions | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| | "T" In (mm) | "U" In (mm) | "V" In (mm) | "W" In (mm) | "X" In (mm) | "Y" In (mm) |
| PFL050 | 2 | 1 23/32 | 1 | 29/32 | 1 1/32 | 9/16 |
| | 50.8 | 43.7 | 25.4 | 23.0 | 27.8 | 14.3 |
| PFL050T | 2 | 1 23/32 | 1 | 29/32 | 1 1/32 | 1/2 Tapped Hole |
| | 50.8 | 43.7 | 25.4 | 23.0 | 27.8 | |

PLF3075

FLANGE CLAMP



Safety Factor: 4

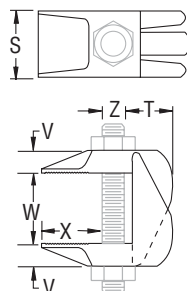
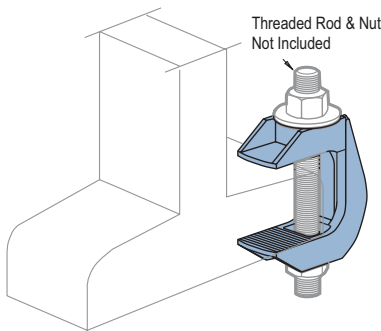
Material: Malleable Iron.

| Part Number | Rod Size | Wt/100 pcs Lbs (kg) | Max. Allowable Load Lbs (kN) | Torque Ft-Lbs |
|-------------|----------|---------------------|------------------------------|---------------|
| PLF3050 | 1/2" | 91 | 450 | 29 |
| | | 41 | 2.00 | |
| PLF3062 | 5/8" | 186 | 900 | 69 |
| | | 84 | 4.00 | |
| PLF3075 | 3/4" | 334 | 1,350 | 130 |
| | | 152 | 6.01 | |

| Part Number | Dimensions | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | "X" In (mm) | "W" In (mm) | "V" In (mm) | "T" In (mm) | "R" In (mm) | "S" In (mm) |
| PLF3050 | 1 3/8 | 0 - 1 1/16 | 1/2 | 1 1/32 | 1 15/16 | 1 1/32 |
| | 34.9 | 0 - 39.7 | 12.7 | 8.7 | 49.2 | 29.4 |
| PLF3062 | 1 13/16 | 0 - 2 3/16 | 5/8 | 1/2 | 2 11/32 | 1 1/16 |
| | 46.0 | 0 - 55.6 | 15.9 | 12.7 | 59.5 | 36.5 |
| PLF3075 | 2 3/16 | 0 - 1 3/4 | 3/4 | 5/8 | 3 | 1 3/4 |
| | 55.6 | 0 - 44.5 | 19.1 | 15.9 | 76.2 | 44.5 |

PLF9037 THRU PLF9100

FLANGE CLAMP



| Part Number | Rod Size | Wt/100 pcs Lbs (kg) | Max. Allowable Load Lbs (kN) | Torque Ft-Lbs | Dimensions | | | | | |
|-------------|----------|---------------------|------------------------------|---------------|-------------|---------------|-------------|-------------|-------------|--|
| | | | | | "X" In (mm) | "W" In (mm) | "V" In (mm) | "T" In (mm) | "S" In (mm) | |
| PLF9037 | 3/8" | 55 | 440 | 15 | 1 | 3/4 - 1 1/16 | 1/2 | 3/4 | 1 | |
| | | 24.9 | 1.96 | | 25.4 | 19.1 - 42.9 | 12.7 | 19.1 | 25.4 | |
| PLF9050 | 1/2" | 122 | 630 | 29 | 1 1/8 | 1 - 2 3/8 | 2 1/32 | 1 5/16 | 1 3/16 | |
| | | 55.3 | 2.80 | | 34.9 | 25.4 - 60.3 | 16.7 | 23.8 | 30.2 | |
| PLF9062 | 5/8" | 200 | 1,260 | 69 | 1 11/16 | 1 1/8 - 2 1/4 | 1 3/16 | 1 1/8 | 1 3/8 | |
| | | 90.7 | 5.60 | | 42.9 | 28.6 - 69.9 | 20.6 | 28.6 | 34.9 | |
| PLF9075 | 3/4" | 367 | 1,880 | 131 | 2 | 1 1/4 - 3 1/4 | 1 | 1 3/8 | 1 3/4 | |
| | | 166.5 | 8.36 | | 50.8 | 31.8 - 82.6 | 25.4 | 34.9 | 44.5 | |
| PLF9100 | 1" | 1,101 | 3,150 | 173 | 3 | 1 3/4 - 3 3/4 | 1 1/2 | 2 3/16 | 2 1/2 | |
| | | 499.4 | 14.01 | | 76.2 | 44.9 - 95.3 | 38.1 | 55.6 | 63.5 | |

Material: Malleable Iron.

Safety Factor: 4

Note: When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

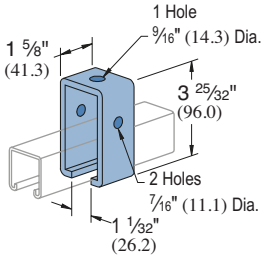
Concrete Inserts

Solar

Unipier®

P1834

CHANNEL TROLLEY SUPPORT



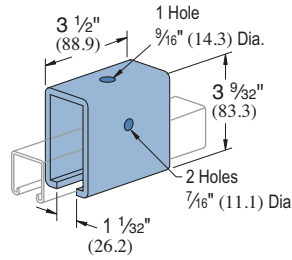
Requires 3/8" x 2 1/2" Bolt and 3/8" Nut (not included)

| Design Load | |
|--------------------|--|
| 1200 Lbs (5.34 kN) | |

Wt/100 pcs: 102 Lbs (46.3 kg)

P1834A

CHANNEL TROLLEY SUPPORT

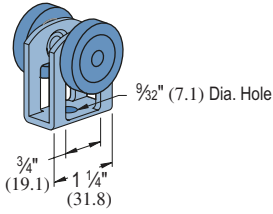


Requires 3/8" x 2 1/2" Bolt and 3/8" Nut (not included)

| Design Load | |
|---------------------|--|
| 2500 Lbs (11.12 kN) | |

Wt/100 pcs: 220 Lbs (99.8 kg)

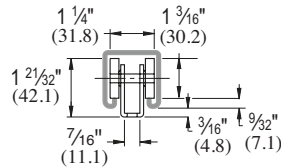
P2749, P2749N†



Clevis Material: 12 gauge.

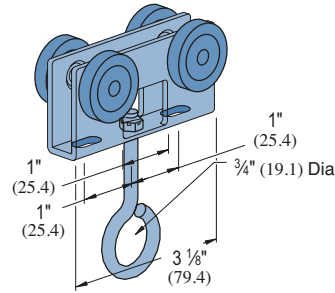
*Wheel bearings are stainless steel, and should not be lubricated.

† "N" indicates acetal wheels.



| Part Number | Design Load Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|----------------------|---------------------|
| P2749 | 50 .22 | 21 9.5 |
| P2749N | 10 .04 | 13 5.9 |

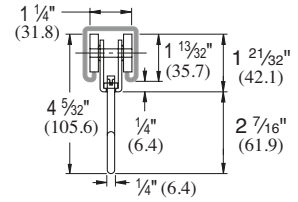
P2751, P2751 N†



Clevis Material: 12 gauge.

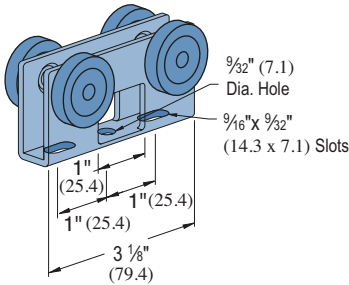
*Wheel bearings are stainless steel, and should not be lubricated.

† "N" indicates acetal wheels.



| Part Number | Design Load Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|----------------------|---------------------|
| P2751 | 100 .44 | 63 28.6 |
| P2751N | 20 .09 | 40 18.1 |

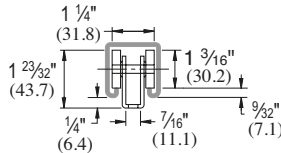
P2750, P2750N†



Clevis Material: 12 gauge.

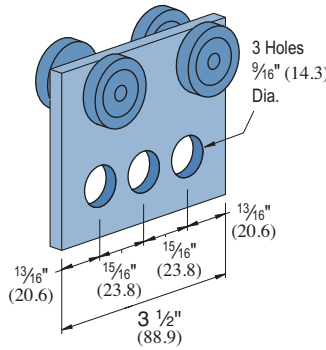
*Wheel bearings are stainless steel, and should not be lubricated.

† "N" indicates acetal wheels.

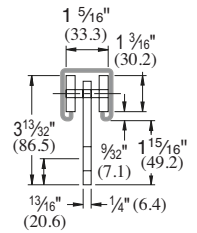


| Part Number | Design Load Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|----------------------|---------------------|
| P2750 | 100 .44 | 55 24.9 |
| P2750N | 20 .09 | 32 14.5 |

P2950

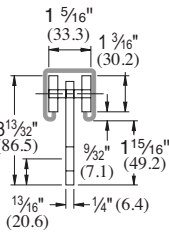
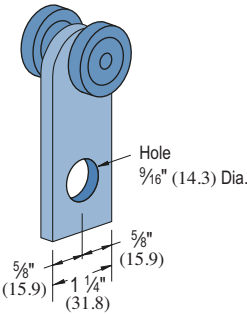


Wheel bearings are stainless steel. Do not lubricate.



| Design Load In P1000 | | |
|----------------------|-----|-------------|
| FPM | RPM | Lbs (kN) |
| 180 | 600 | 300 1.33 |
| 90 | 300 | 450 2.00 |
| 30 | 100 | 600 2.67 |

P2949



| Design Load In P1000 | | |
|----------------------|-----|-------------|
| FPM | RPM | Lbs (kN) |
| 180 | 600 | 150 .67 |
| 90 | 300 | 225 1.00 |
| 30 | 100 | 437 1.94 |

Wheel bearings are stainless steel. Do not lubricate.

Wt/100 pcs: 46 Lbs (20.9 kg)

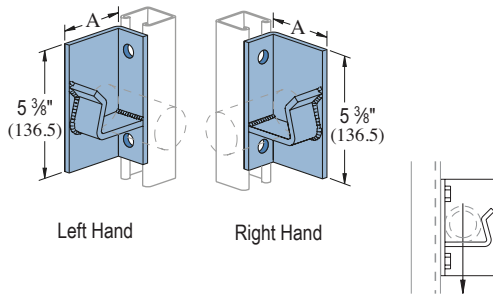
Wt/100 pcs: 110 Lbs (49.9 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 1/8" (20.6mm); Hole Spacing - On Center: 1 1/4" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45

P2354 R-L, P2355 R-L

REEL RACK SUPPORTS FOR 1¼" & 2" PIPE

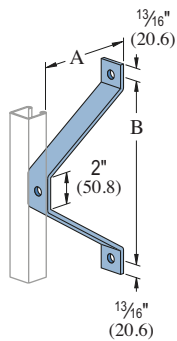


| Vertical Channel Part No. | Gauge | Max. Allowable Load Lbs (kN) |
|---------------------------|-------|------------------------------|
| P1000 | 12 | 3,000 (13.34) |
| P1100 | 14 | 2,000 (8.90) |
| P2000 | 16 | 2,000 (8.90) |

| Part Number | "A" In (mm) | Std. Pipe Size In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|------------------------|---------------------|
| P2354 R-L | 3 | 1¼ | 220 |
| | 76.2 | 31.8 | 99.8 |
| P2355 R-L | 3¾ | 2 | 252 |
| | 92.1 | 50.8 | 114.3 |

P1204 THRU P1208

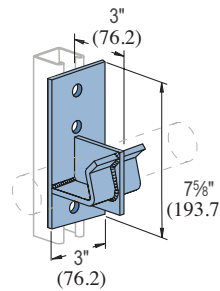
WALL LADDER BRACKET



| Part Number | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|-------------|---------------------|
| P1204 | 2¾ | 6 | 113 |
| | 60.3 | 152.4 | 51.3 |
| P1205 | 4¾ | 8 | 164 |
| | 111.1 | 203.2 | 74.4 |
| P1206 | 6¾ | 10 | 216 |
| | 161.9 | 254.0 | 98.0 |
| P1207 | 8¾ | 12 | 267 |
| | 212.7 | 304.8 | 121.1 |
| P1208 | 10¾ | 14 | 318 |
| | 263.5 | 355.6 | 144.2 |

P2454

DOUBLE PIPE AXLE SUPPORT



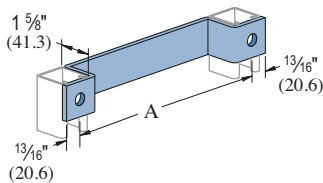
Load Rating 4,000 Lbs (17.79 kN)

For 1¼" (31.8) Standard Pipe

Wt/100 pcs: 310 Lbs (140.6 kg)

P1201, P1202, P1203

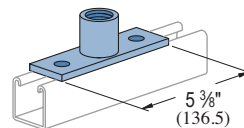
LADDER RUNG



| Part Number | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|---------------------|
| P1201 | 12 | 186 |
| | 304.8 | 84.4 |
| P1202 | 15 | 221 |
| | 381.0 | 100.2 |
| P1203 | 18 | 254 |
| | 457.2 | 115.2 |

P2470-50, -75, -100

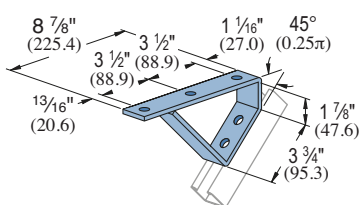
PIPE COUPLING FITTING



| Pipe Coupling | | |
|---------------|---------|---------------------|
| Part Number | Size In | Wt/100 pcs Lbs (kg) |
| P2470-50 | ½ | 77 (34.9) |
| P2470-75 | ¾ | 93 (42.2) |
| P2470-100 | 1 | 103 (46.7) |

P1944

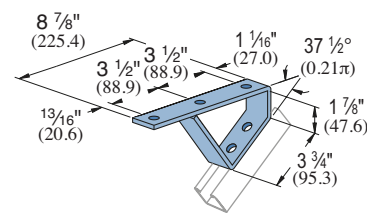
45° (.25π) STAIR TREAD SUPPORT



Wt/100 pcs: 220 Lbs (99.8 kg)

P2655

37½° (.21π) STAIR TREAD SUPPORT



Wt/100 pcs: 213 Lbs (96.6 kg)

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 5/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 1/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

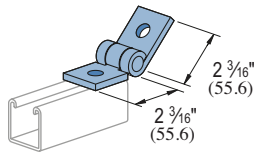
Electrical Fittings

Concrete Inserts

Solar

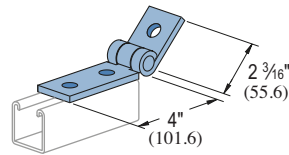
Unipier®

P1843 ADJ. HINGE CONNECTION



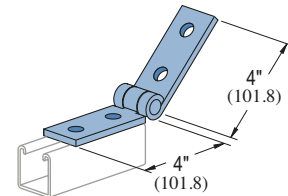
Wt/100 pcs: 68 Lbs (30.8 kg)

P1354A ADJ. HINGE CONNECTION



Wt/100 pcs: 89 Lbs (40.4 kg)

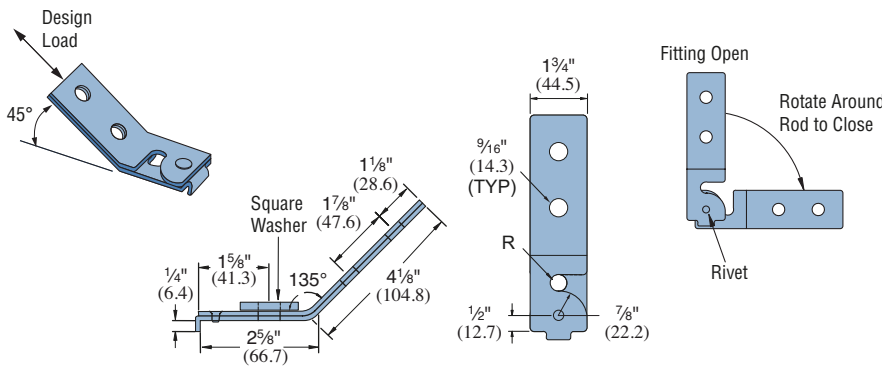
P1354 ADJ. HINGE CONNECTION



Wt/100 pcs: 109 Lbs (49.4 kg)

SPF® 100

SEISMIC PIVOT FITTINGS



| Part Number | Rod Size In (mm) | "R" - Hole Diameter In (mm) | Design Load Lbs (KN) |
|-------------|------------------|-----------------------------|----------------------|
| SPF 100-037 | 3/8 9.5 | 7/16 11.1 | 1,400 6.23 |
| SPF 100-050 | 1/2 12.7 | 9/16 14.3 | 2,100 9.34 |
| SPF 100-062 | 5/8 15.9 | 1 1/16 17.5 | 2,100 9.34 |
| SPF 100-075 | 3/4 19.1 | 1 3/16 20.6 | 2,400 10.68 |

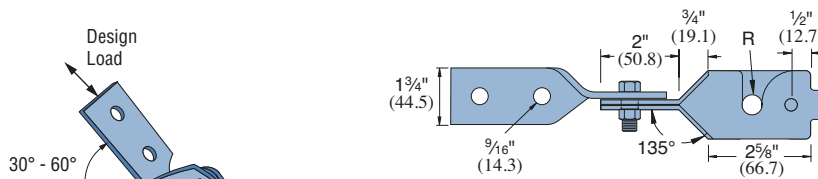
Safety Factor = 3
FINISH
Electro-galvanized (EG), conforming to
ASTM B633 Type III SC1.

Notes:

- Design load is limited to slip capacity of a channel nut at hole "R".
- Allowable loads have been determined by the manufacturers testing, analysis and technical specifications.
- For retrofit application, engineer of record must verify.
- Square washer provided with fitting.
- When a hanger rod is thru-bolted (in lieu of channel nut installation), higher transverse loads may be transmitted due to the higher allowed rod shear loads compared to channel nut slip values. This higher load may be used with verification through engineering calculations.

SPF® 200

ADJUSTABLE SEISMIC PIVOT FITTINGS



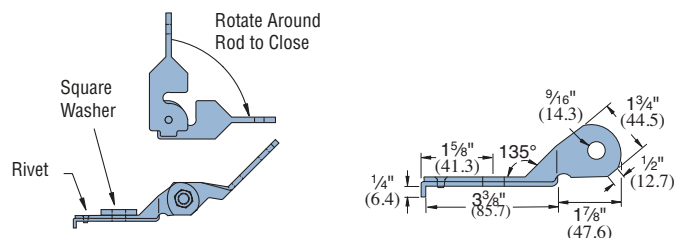
FINISH
Electro-galvanized (EG), conforming to
ASTM B633 Type III SC1.

| Part Number | Rod Size In (mm) | "R" - Hole Diameter In (mm) | Design Load Lbs (KN) |
|-------------|------------------|-----------------------------|----------------------|
| SPF 200-037 | 3/8 9.5 | 7/16 11.1 | 1,400 6.23 |
| SPF 200-050 | 1/2 12.7 | 9/16 14.3 | 2,100 9.34 |
| SPF 200-062 | 5/8 15.9 | 1 1/16 17.5 | 2,100 9.34 |
| SPF 200-075 | 3/4 19.1 | 1 3/16 20.6 | 2,400 10.68 |

Safety Factor = 3.0

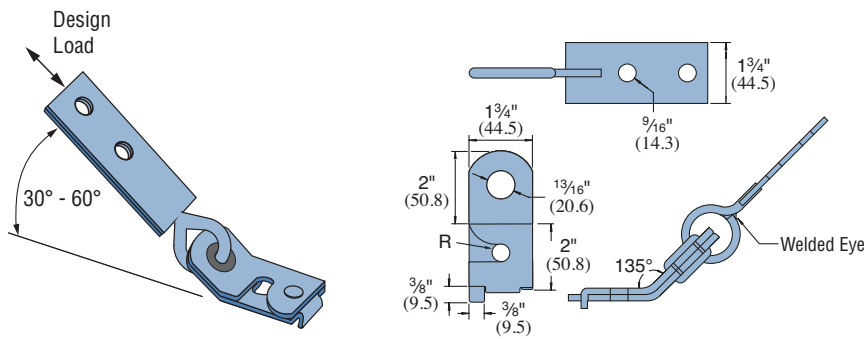
Notes:

- Design load is limited to slip capacity of a channel nut at hole "R".
- Allowable loads have been determined by the manufacturers testing, analysis and technical specifications at 45° from horizontal.
- For retrofit application, engineer of record must verify.
- Square washer provided with fitting.
- When a hanger rod is thru-bolted (in lieu of channel nut installation), higher transverse loads may be transmitted due to the higher allowed rod shear loads compared to channel nut slip values. This higher load may be used with verification through engineering calculations.



SPF® 300

SEISMIC PIVOT FITTINGS

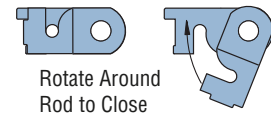


| Part Number | Rod Size In (mm) | "R" - Hole Diameter In (mm) | Design Load Lbs (kN) |
|-------------|------------------|-----------------------------|----------------------|
| SPF 300-037 | 3/8 9.5 | 7/16 11.1 | 1,400 6.23 |
| SPF 300-050 | 1/2 12.7 | 9/16 14.3 | 2,100 9.34 |
| SPF 300-062 | 5/8 15.9 | 1 1/16 17.5 | 2,100 9.34 |
| SPF 300-075 | 3/4 19.1 | 1 3/16 20.6 | 2,400 10.68 |

Safety Factor = 3.0
FINISH
Electro-galvanized (EG), conforming to ASTM B633 Type III SC1.

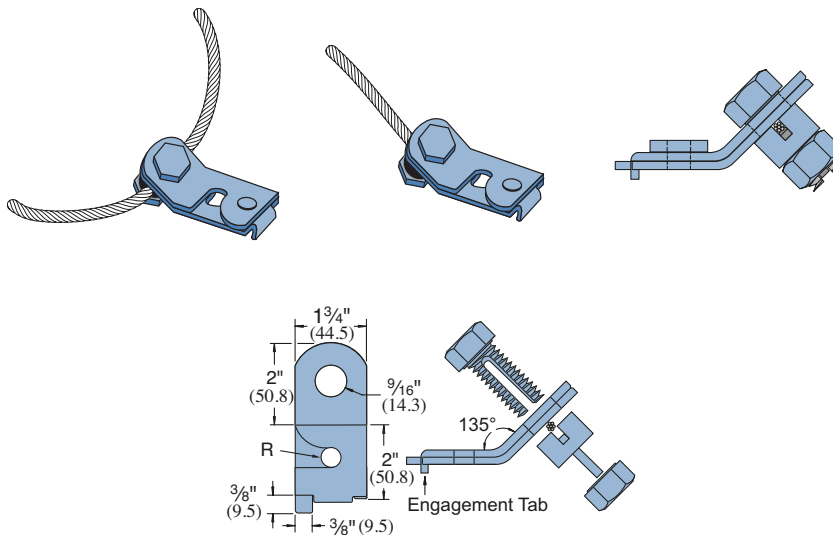
Notes:

1. Design load is limited to slip capacity of a channel nut at hole "R".
2. Allowable loads have been determined by the manufacturers testing, analysis and technical specifications at 45° from horizontal.
3. For retrofit application, engineer of record must verify.
4. Square washer provided with fitting.
5. When a hanger rod is thru-bolted (in lieu of channel nut installation), higher transverse loads may be transmitted due to the higher allowed rod shear loads compared to channel nut slip values. This higher load may be used with verification through engineering calculations.



SPF® 400

SEISMIC PIVOT FITTINGS



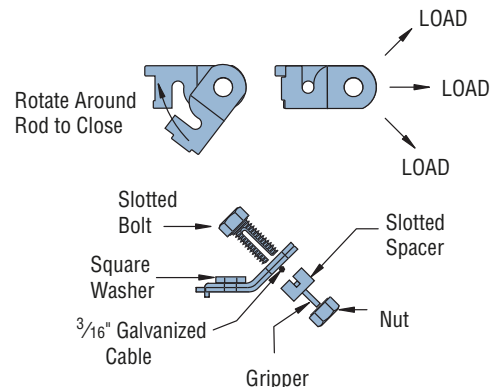
| Part Number | Rod Size In (mm) | "R" - Hole Diameter In (mm) |
|-------------|------------------|-----------------------------|
| SPF 400-037 | 3/8 9.5 | 7/16 11.1 |
| SPF 400-050 | 1/2 12.7 | 9/16 14.3 |
| SPF 400-062 | 5/8 15.9 | 1 1/16 17.5 |
| SPF 400-075 | 3/4 19.1 | 1 3/16 20.6 |

FINISH
Electro-galvanized (EG), conforming to ASTM B633 Type III SC1.

| Wire Rope Diameter In (mm) | Horizontal Design Load | | |
|----------------------------|------------------------|-----------------------|-------------------------|
| | 4-Way Splayed | | Single Cable Transverse |
| | Transverse lbs (kN) | Longitudinal lbs (kN) | lbs (kN) |
| 3/16 | 1050 | 1116 | 650 |
| 4.8 | 4.67 | 4.96 | 2.89 |

Notes:

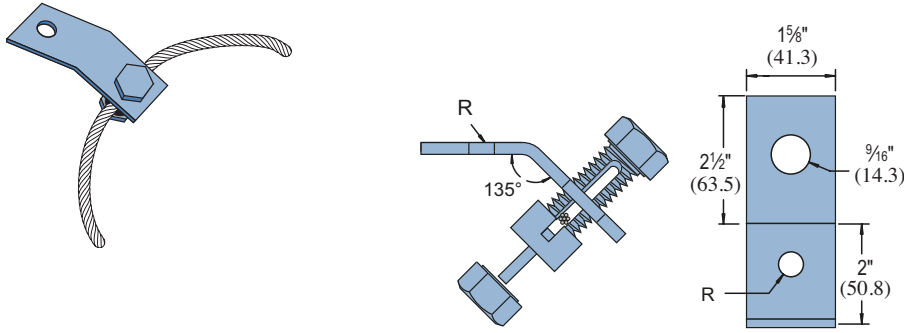
1. Allowable loads have been determined by the manufacturers testing, analysis and technical specifications.
2. Galvanized wire rope, 7 x 19 IWSC, RHRL (Prestretched).
3. Torque on nut/spacer: 50 ft-lbs.
4. Safety Factor of 3 for prestretched cable..





SEISMIC PIVOT FITTINGS

LS 410



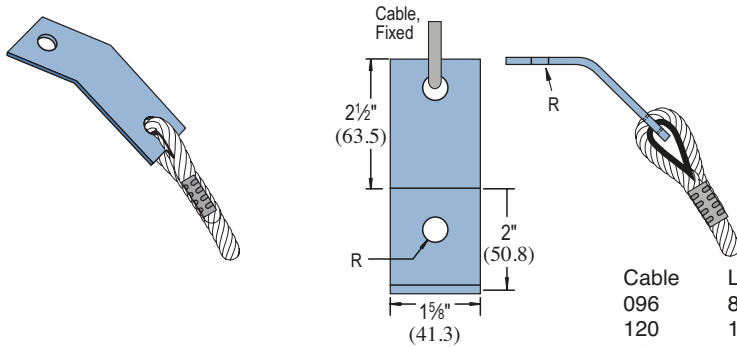
| Part Number | Anchor Size In (mm) | "R" - Hole Diameter In (mm) |
|-------------|---------------------|-----------------------------|
| LS 410-037 | 3/8 9.5 | 7/16 11.1 |
| LS 410-050 | 1/2 12.7 | 9/16 14.3 |
| LS 410-062 | 5/8 15.9 | 1 1/16 17.5 |
| LS 410-075 | 3/4 19.1 | 1 3/16 20.6 |

FINISH
Electro-galvanized (EG), conforming to ASTM B633 Type III SC1.

- Note:
1. Allowable loads have been determined by the manufacturers testing, analysis and technical specifications.
 2. For retrofit application, engineer of record must verify.
 3. Torque on nut/spacer: 50 ft-lbs.
 4. Square washer provided with fitting.
 5. Loads are the same as the SPF 400

LS 500

SEISMIC PIVOT FITTINGS



| Cable | Length |
|-------|-------------|
| 096 | 8' (2.4M) |
| 120 | 10' (3.0M) |
| 144 | 12' (3.6M) |
| 180 | 15' (4.5M) |
| 240 | 20' (6.1M) |
| 300 | 25' (7.6M) |
| 360 | 30' (9.1M) |
| 480 | 40' (12.2M) |

Example
LS500-037-096
Cable Length
Anchor Size
Fitting Number

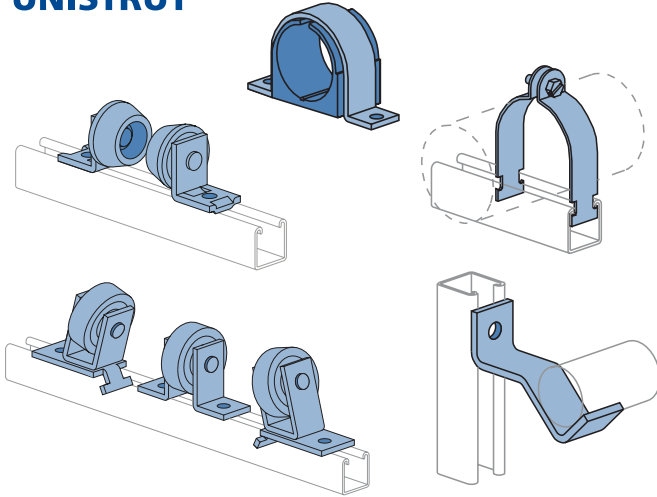
| Part Number | Anchor Size In (mm) | "R" - Hole Diameter In (mm) |
|-------------|---------------------|-----------------------------|
| LS 500-037 | 3/8 9.5 | 7/16 11.1 |
| LS 500-050 | 1/2 12.7 | 9/16 14.3 |
| LS 500-062 | 5/8 15.9 | 1 1/16 17.5 |
| LS 500-075 | 3/4 19.1 | 1 3/16 20.6 |

FINISH
Electro-galvanized (EG), conforming to ASTM B633 Type III SC1.

- Note:
1. Allowable loads have been determined by the manufacturers testing, analysis and technical specifications.
 2. For retrofit application, engineer of record must verify.
 3. Square washer provided with fitting.
 4. Loads are the same as the SPF 400



PIPE/CONDUIT SUPPORTS



| | |
|--|-----------|
| Pipe/Conduit Clamps | 108 - 111 |
| Unicushion® | 112 |
| Pipe & Tubing (Cush-A-Clamp®) Clamps | 113 - 115 |
| Pipe & Tubing (Cush-A-Grip® & Cush-A-Therm™) Clamps..... | 116 |
| Pipe Hangers | 117 |
| Pipe Rollers..... | 117 - 119 |
| Pipe Brackets | 119 |
| Reference Tables | 120 - 126 |

MATERIAL

Unistrut pipe clamps, unless noted, are punch-press made from hot-rolled, pickled and oiled steel plates, strip, bar or coil, and conform to one or more of the following specifications: ASTM A1008, A575, A576, A635, A1011 SS GR 33, A1011 HSLAS GR 45, A1046 or A36. The fitting steel also meets the or exceeds the physical properties of ASTM A1011 GR 33. The pickling of the steel produces a smooth surface free from scale.

Many items are also available in stainless steel, aluminum and fiberglass.

Consult factory for ordering information.

FINISHES

Pipe supports are available in:

- Electro-galvanized (EG), conforming to ASTM B633 Type III SC1
- Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 (hardware)
- Green Powder Coat (GR), conforming to commercial standards for Powder Coating, and plain (PL)
- Unistrut Defender (DF), conforming to ASTM A1059 or A1046

APPLICATION

Unistrut pipe clamps, pipe hangers, brackets and rollers are designed for the support of electrical and mechanical services. Supports to meet nearly every requirement can be attained using Unistrut Metal Framing components.

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

DESIGN 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 (N•m) | 6 (8) | 11 (15) | 19 (26) | 50 (68) | 100 (136) | 125 (170) |
| Max Torque Ft/Lbs (N•m) | 7 (9) | 15 (20) | 25 (34) | 70 (95) | 125 (170) | 135 (183) |

Note: When tightening 1/4" screws used with a two piece pipe clamp, a torque of 5 foot pounds (60 inch-pounds) should be used.

DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 5.0, unless otherwise noted.

When used for mechanical supports, load capacities of brackets, fittings and other supporting elements should be in compliance with the American Standard Code for Pressure Piping.

Pipe Clamps In Special Materials (P1109, P1211, P1425, P2024 Series)

| Material/Finish | Part Number Suffix | Pipe Clamp Material / Finish | Fasteners (Screw & Nut) Material / Finish | Example |
|--------------------------|--------------------|------------------------------|---|-----------|
| Electro-galvanized | EG | EG | EG | P1109 EG |
| Hot-dipped galvanized | HG | HG | SS | P1109 HG |
| Unistrut Defender | DF | DF | DF | P1109 DF |
| Stainless Steel Type 304 | SS | SS | SS | P1109 SS |
| Stainless Steel Type 316 | ST | ST | SS | P1109 ST |
| Aluminum | AL | AL | AL | P1109 AL |
| Copper Coated | CC | CC | CC | P1109 CC |
| Everdur | E EG | EG | E | P1109E EG |



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

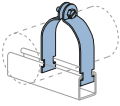
Electrical Fittings

Concrete Inserts

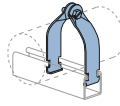
Solar

Unipier®

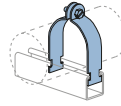
Pipe & Conduit Clamps



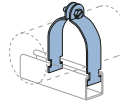
P1109 - Pg 108



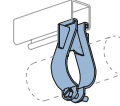
P1211 - Pg 109



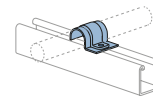
P1425 - Pg 109



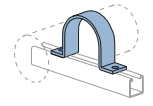
P2024 - Pg 110



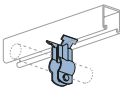
P1563 - Pg 109



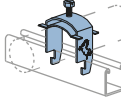
P2008 - Pg 109



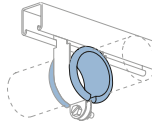
P2558 - Pg 110



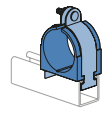
P3409 - Pg 111



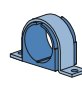
MU025 - Pg 111



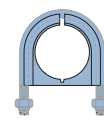
P2600 - Pg 112



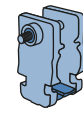
004T008 - Pg 113



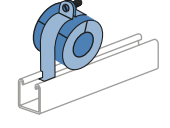
004M007 - Pg 114



UB1/2PA - Pg 115

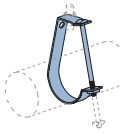


CG-10 - Pg 116

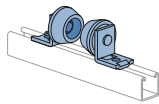


PUX3834 - Pg 116

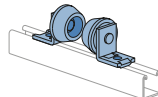
Pipe Rollers



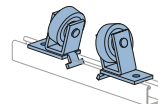
J1205 - Pg 117



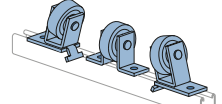
P2474 - Pg 117



P2474-1 - Pg 118

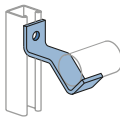


P2475 - Pg 118

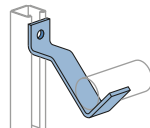


P2476 - Pg 119

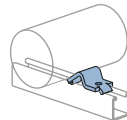
Pipe Brackets



P2481 - Pg 119



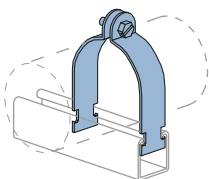
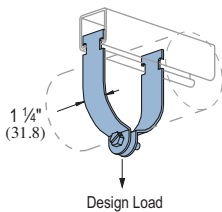
P2482 - Pg 119



P2243 - Pg 119

P1109 THRU P1126

PIPE CLAMPS FOR RIGID STEEL CONDUIT



| Part No. | Conduit Size In | O.D. Size In (mm) | Thickness Gauge (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|----------|-----------------|-------------------|----------------------|---------------------|----------------------|
| P1109 | 3/8 | 0.675 17.1 | 16 1.5 | 10 4.5 | 400 1.78 |
| P1111 | 1/2 | 0.840 21.3 | 16 1.5 | 11 5.0 | 400 1.78 |
| P1112 | 3/4 | 1.050 26.7 | 14 1.9 | 15 6.8 | 600 2.67 |
| P1113 | 1 | 1.315 33.4 | 14 1.9 | 17 7.7 | 600 2.67 |
| P1114 | 1 1/4 | 1.660 42.2 | 14 1.9 | 19 8.6 | 600 2.67 |
| P1115 | 1 1/2 | 1.900 48.3 | 12 2.7 | 29 13.2 | 800 3.56 |
| P1117 | 2 | 2.375 60.3 | 12 2.7 | 34 15.4 | 800 3.56 |

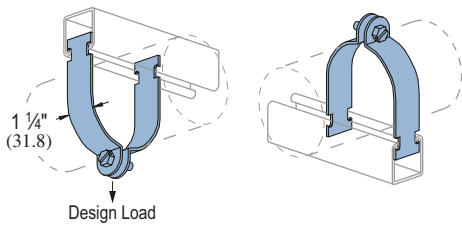
| Part No. | Conduit Size In | O.D. Size In (mm) | Thickness Gauge (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|----------|-----------------|-------------------|----------------------|---------------------|----------------------|
| P1118 | 2 1/2 | 2.875 73.0 | 12 2.7 | 40 18.1 | 800 3.56 |
| P1119 | 3 | 3.500 88.9 | 12 2.7 | 47 21.3 | 800 3.56 |
| P1120 | 3 1/2 | 4.000 101.6 | 11 3.0 | 62 28.1 | 1,000 4.45 |
| P1121 | 4 | 4.500 114.3 | 11 3.0 | 67 30.4 | 1,000 4.45 |
| P1123 | 5 | 5.563 141.3 | 11 3.0 | 80 36.3 | 1,000 4.45 |
| P1124 | 6 | 6.625 168.3 | 10 3.4 | 102 46.3 | 1,000 4.45 |
| P1126 | 8 | 8.625 219.1 | 10 3.4 | 130 59.0 | 1,000 4.45 |

Slotted hex head screw and nut included

P1425 THRU P1431

PIPE CLAMPS FOR THIN WALL CONDUIT (E.M.T.)

DF EG HG

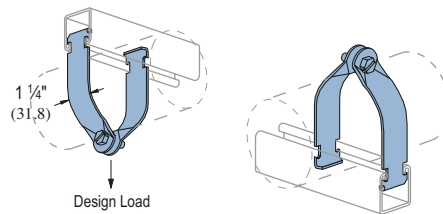


Slotted hex head screw and nut included

P1211 THRU P1217

UNIVERSAL CLAMPS FOR RIGID OR THINWALL CONDUIT

DF EG HG



Slotted hex head screw and nut included

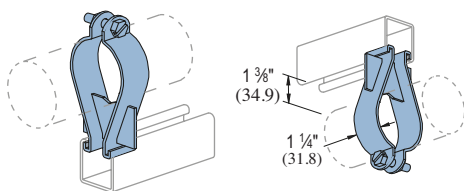
| Part No. | Conduit Size In (mm) | O.D. Size In (mm) | Thickness Gauge (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|----------|----------------------|-------------------|----------------------|---------------------|----------------------|
| P1425 | 3/8 9.5 | 0.577 14.7 | 16 1.5 | 9 4.1 | 400 1.78 |
| P1426 | 1/2 12.7 | 0.706 17.9 | 16 1.5 | 11 5.0 | 400 1.78 |
| P1427 | 3/4 19.1 | 0.922 23.4 | 16 1.5 | 12 5.4 | 400 1.78 |
| P1428 | 1 25.4 | 1.163 29.5 | 14 1.9 | 15 6.8 | 600 2.67 |
| P1429 | 1 1/4 31.8 | 1.510 38.4 | 14 1.9 | 18 8.2 | 600 2.67 |
| P1430 | 1 1/2 38.1 | 1.740 44.2 | 12 2.7 | 29 13.2 | 800 3.56 |
| P1431 | 2 50.8 | 2.197 55.8 | 12 2.7 | 33 15.0 | 800 3.56 |
| P1118 | 2 1/2 63.5 | 2.875 73.0 | 12 2.7 | 40 18.1 | 800 3.56 |
| P1119 | 3 76.2 | 3.500 88.9 | 12 2.7 | 47 21.3 | 800 3.56 |
| P1120 | 3 1/2 88.9 | 4.000 101.6 | 11 3.0 | 62 28.1 | 1,000 4.45 |
| P1121 | 4 101.6 | 4.500 114.3 | 11 3.0 | 67 30.4 | 1,000 4.45 |

| Part No. | Conduit Size In (mm) | Thickness Gauge (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|----------|----------------------|----------------------|---------------------|----------------------|
| P1211 | 1/2 12.7 | 16 1.5 | 10 4.5 | 400 1.78 |
| P1212 | 3/4 19.1 | 16 1.5 | 11 5.0 | 400 1.78 |
| P1213 | 1 25.4 | 16 1.5 | 12 5.4 | 400 1.78 |
| P1214 | 1 1/4 31.8 | 14 1.9 | 18 8.2 | 600 2.67 |
| P1215 | 1 1/2 38.1 | 14 1.9 | 20 9.1 | 600 2.67 |
| P1217 | 2 50.8 | 14 1.9 | 22 10.0 | 600 2.67 |
| P1118 | 2 1/2 63.5 | 12 2.7 | 40 18.1 | 800 3.56 |
| P1119 | 3 76.2 | 12 2.7 | 47 21.3 | 800 3.56 |
| P1120 | 3 1/2 88.9 | 11 3.0 | 62 28.1 | 1,000 4.45 |
| P1121 | 4 101.6 | 11 3.0 | 67 30.4 | 1,000 4.45 |

P1563 THRU P1573

PARALLEL CLAMPS FOR RIGID CONDUIT AND PIPE

EG

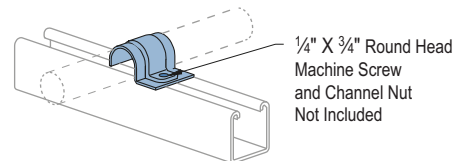


Slotted hex head screw and nut included.

Finish: Electro-galvanized.

P2008 THRU P2020 ONE HOLE CLAMP FOR O.D. TUBING

EG HG



1/4" X 3/4" Round Head Machine Screw and Channel Nut Not Included

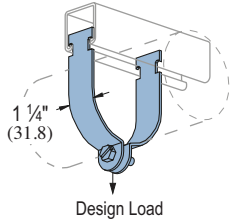
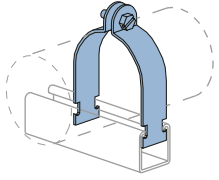
| Part No. | Pipe Size In (mm) | O.D. Size In (mm) | Thickness Gauge (mm) | Wt/100 pcs Lbs (kg) |
|----------|-------------------|-------------------|----------------------|---------------------|
| P1563 | 3/8 9.5 | 0.675 17.1 | 14 1.9 | 27 12.2 |
| P1564 | 1/2 12.7 | 0.840 21.3 | 14 1.9 | 29 13.2 |
| P1565 | 3/4 19.1 | 1.050 26.7 | 14 1.9 | 30 13.6 |
| P1566 | 1 25.4 | 1.315 33.4 | 14 1.9 | 31 14.1 |
| P1567 | 1 1/4 31.8 | 1.660 42.2 | 14 1.9 | 38 17.2 |
| P1568 | 1 1/2 38.1 | 1.900 48.3 | 12 2.7 | 40 18.1 |
| P1569 | 2 50.8 | 2.375 60.3 | 12 2.7 | 47 21.3 |
| P1570 | 2 1/2 63.5 | 2.875 73.0 | 12 2.7 | 66 29.9 |
| P1571 | 3 76.2 | 3.500 88.9 | 12 2.7 | 78 35.4 |
| P1572 | 3 1/2 88.9 | 4.000 101.6 | 12 2.7 | 87 39.5 |
| P1573 | 4 101.6 | 4.500 114.3 | 12 2.7 | 90 40.8 |

| Part No. | O.D. Tube Size In (mm) | Thickness Gauge (mm) | Wt/100 pcs Lbs (kg) |
|----------|------------------------|----------------------|---------------------|
| P2008 | 1/4 6.4 | 16 1.5 | 4 1.8 |
| P2009 | 5/16 7.9 | 16 1.5 | 5 2.3 |
| P2010 | 3/8 9.5 | 16 1.5 | 5 2.3 |
| P2012 | 1/2 12.7 | 16 1.5 | 6 2.7 |
| P2014 | 5/8 15.9 | 14 1.9 | 8 3.6 |
| P2016 | 3/4 19.1 | 14 1.9 | 9 4.1 |
| P2018 | 7/8 22.2 | 14 1.9 | 10 4.5 |
| P2020 | 1 25.4 | 14 1.9 | 11 5.0 |



P2024 THRU P2070-84

PIPE CLAMPS FOR O.D. TUBING EG HG



Slotted hex head screw and nut included

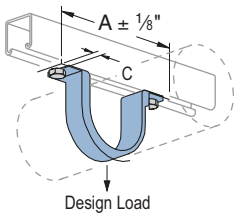
- P2024 - P2029 16 ga.
- P2030 - P2035 14 ga.
- P2037 - P2052 12 ga.
- P2053 - P2066 11 ga.
- P2067 - P2070-84 10 ga.

| Part Number | O.D. Size In (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|-------------|----------------------|------------------------|-------------------------|
| P2024 | ¼ (6.4) | 8 (3.6) | 400 (1.78) |
| P2025 | ⅜ (9.5) | 8 (3.6) | |
| P2026 | ½ (12.7) | 9 (4.1) | |
| P2027 | ⅝ (15.9) | 10 (4.5) | |
| P2028 | ¾ (19.1) | 11 (5.0) | |
| P2029 | 7⁄8 (22.2) | 12 (5.4) | |
| P2030 | 1 (25.4) | 14 (6.4) | 600 (2.67) |
| P2031 | 1 ⅛ (28.6) | 15 (6.8) | |
| P2032 | 1 ¼ (31.8) | 16 (7.3) | |
| P2033 | 1 ⅝ (34.9) | 17 (7.7) | |
| P2034 | 1 ¾ (38.1) | 18 (8.2) | |
| P2035 | 1 ⅞ (41.3) | 19 (8.6) | |
| P1430 | 1 ¾ (44.5) | 29 (13.2) | 800 (3.56) |
| P2037 | 1 ⅞ (47.6) | 28 (12.7) | |
| P2038 | 2 (50.8) | 31 (14.1) | |
| P2039 | 2 ⅛ (54.0) | 32 (14.5) | |
| P2040 | 2 ¼ (57.2) | 33 (15) | |
| P1117 | 2 ⅝ (60.3) | 34 (15.4) | |
| P2042 | 2 ½ (63.5) | 35 (15.9) | |
| P2043 | 2 ⅞ (66.7) | 37 (16.8) | |
| P2044 | 2 ¾ (69.9) | 38 (17.2) | |
| P1118 | 2 ⅞ (73.0) | 40 (18.1) | |
| P2046 | 3 (76.2) | 41 (18.6) | |
| P2047 | 3 ⅛ (79.4) | 43 (19.5) | |
| P2048 | 3 ¼ (82.6) | 45 (20.4) | |
| P2049 | 3 ⅝ (85.7) | 46 (20.9) | |
| P1119 | 3 ½ (88.9) | 47 (21.3) | |
| P2051 | 3 ⅞ (92.1) | 56 (25.4) | 1000 (4.45) |
| P2052 | 3 ¾ (95.3) | 58 (26.3) | |
| P2053 | 3 ⅞ (98.4) | 60 (27.2) | |
| P1120 | 4 (101.6) | 62 (28.1) | |
| P2055 | 4 ⅛ (104.8) | 62 (28.1) | |
| P2056 | 4 ¼ (108.0) | 64 (29.0) | |
| P2057 | 4 ⅝ (111.1) | 66 (29.9) | |
| P1121 | 4 ½ (114.3) | 67 (30.4) | |
| P2059 | 4 ⅞ (117.5) | 70 (31.8) | |
| P2060 | 4 ¾ (120.7) | 72 (32.7) | |

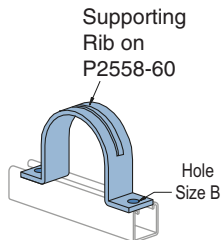
| Part Number | O.D. Size In (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|-------------|----------------------|------------------------|-------------------------|
| P2061 | 4 ⅞ (123.8) | 73 (33.1) | 1000 (4.45) |
| P2062 | 5 (127.0) | 74 (33.6) | |
| P2063 | 5 ⅛ (130.2) | 76 (34.5) | |
| P2064 | 5 ¼ (133.4) | 77 (34.9) | |
| P2065 | 5 ⅝ (136.5) | 78 (35.4) | |
| P2066 | 5 ¾ (140.0) | 79 (35.8) | |
| P2067 | 5 ⅞ (142.9) | 88 (39.9) | |
| P2068 | 5 ¾ (146.1) | 90 (40.8) | |
| P2069 | 5 ⅞ (149.2) | 92 (41.7) | |
| P2070 | 6 (152.4) | 94 (42.6) | |
| P2070-61 | 6 ⅛ (155.6) | 96 (43.5) | |
| P2070-62 | 6 ¼ (158.8) | 98 (44.5) | |
| P2070-63 | 6 ⅝ (161.9) | 99 (44.9) | |
| P2070-64 | 6 ½ (165.1) | 100 (45.4) | |
| P1124 | 6 ⅞ (168.3) | 102 (46.3) | |
| P2070-66 | 6 ¾ (171.5) | 104 (47.2) | |
| P2070-67 | 6 ⅞ (174.6) | 106 (48.1) | |
| P2070-70 | 7 (177.8) | 108 (49.0) | |
| P2070-71 | 7 ⅛ (181.0) | 110 (49.9) | |
| P2070-72 | 7 ¼ (184.2) | 112 (50.8) | |
| P2070-73 | 7 ⅝ (187.3) | 114 (51.7) | |
| P2070-74 | 7 ½ (190.5) | 116 (52.6) | |
| P2070-75 | 7 ⅞ (193.7) | 117 (53.1) | |
| P2070-76 | 7 ¾ (196.9) | 119 (54.0) | |
| P2070-77 | 7 ⅞ (200.0) | 121 (54.9) | |
| P2070-80 | 8 (203.2) | 123 (55.8) | |
| P2070-81 | 8 ⅛ (206.4) | 125 (56.7) | |
| P2070-82 | 8 ¼ (209.6) | 126 (57.2) | |
| P2070-83 | 8 ⅝ (212.7) | 128 (58.1) | |
| P2070-84 | 8 ½ (215.9) | 129 (58.5) | |
| P1126 | 8 ⅞ (219.1) | 130 (59.0) | |

P2558-5 THRU P2558-60

SINGLE PIECE PIPE STRAP EG GR HG



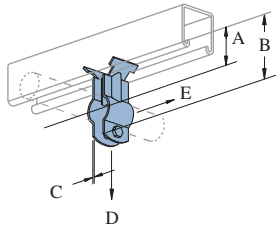
Hardware sold separately.



| Part No. | Nom. Pipe Size In | A In (mm) | "B" In (mm) | C In (mm) | Thickness In (mm) | Wt/100 pcs Lbs (kg) | Design Load Lbs (kN) |
|----------|-------------------|--------------|-------------|-------------|-------------------|---------------------|----------------------|
| P2558-05 | ½ | 2 ⅞ 73.0 | 7.1 | 11.1 | 3.2 | 23 10.4 | 500 2.22 |
| P2558-07 | ¾ | 3 ⅝ 79.4 | | | | 26 11.8 | |
| P2558-10 | 1 | 3 ⅞ 85.7 | | | | 31 14.1 | |
| P2558-12 | 1 ¼ | 3 ¾ 95.3 | 35 15.9 | | | | |
| P2558-15 | 1 ½ | 3 ⅞ 98.4 | 39 17.7 | | | | |
| P2558-20 | 2 | 5 ¾ 146.1 | 7 ⅞ 11.1 | 1 ⅞ 17.5 | ¼ 6.4 | 94 42.6 | |
| P2558-25 | 2 ½ | 6 ¼ 158.8 | | | | 114 51.7 | |
| P2558-30 | 3 | 6 ⅞ 174.6 | | | | 133 60.3 | |
| P2558-35 | 3 ½ | 7 ⅞ 187.3 | | | | 152 68.9 | |
| P2558-40 | 4 | 7 ⅞ 200.0 | | | | 176 79.8 | |
| P2558-50 | 5 | 9 228.6 | | | | 198 89.8 | |
| P2558-60 | 6 | 10 254.0 | | | | 225 102.1 | |

P3409 THRU P3417

STAND-OFF PIPE CLAMPS 



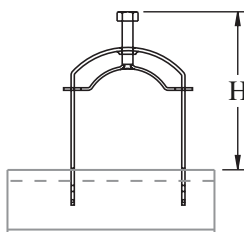
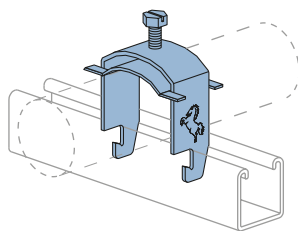
Hardware included.
Finish: Electro-galvanized.
Pipe Clamp 1¼" Wide

| Part No. | Pipe Size In (mm) | O.D. Size In (mm) | Load "D" Lbs (kN) | Load "E" Lbs (kN) | A In (mm) | B In (mm) | C Gauge (mm) | Wt/100 pcs Lbs (kg) |
|----------|----------------------|----------------------|----------------------|----------------------|--------------|--------------|-----------------|------------------------|
| P3409 | ¾ | 0.675 | 100 | 25 | 1⅞ | 2⅞ | 14 | 14 |
| | 9.5 | 17.1 | 0.44 | 0.11 | 28.6 | 54.0 | 1.9 | 6.4 |
| P3411 | ½ | 0.840 | 150 | 35 | 1¼ | 2⅞ | 14 | 15 |
| | 12.7 | 21.3 | 0.67 | 0.16 | 31.8 | 58.7 | 1.9 | 6.8 |
| P3412 | ¾ | 1.050 | 175 | 40 | 1⅞ | 2⅞ | 14 | 19 |
| | 19.1 | 26.7 | 0.78 | 0.18 | 33.3 | 63.5 | 1.9 | 8.6 |
| P3413 | 1 | 1.315 | 200 | 50 | 1½ | 2¾ | 14 | 22 |
| | 25.4 | 33.4 | 0.89 | 0.22 | 38.1 | 69.9 | 1.9 | 10.0 |
| P3414 | 1¼ | 1.660 | 300 | 70 | 1⅞ | 3¼ | 12 | 34 |
| | 31.8 | 42.2 | 1.33 | 0.31 | 42.9 | 82.6 | 2.7 | 15.4 |
| P3415 | 1½ | 1.900 | 400 | 80 | 1¾ | 3½ | 11 | 49 |
| | 38.1 | 48.3 | 1.78 | 0.36 | 44.5 | 88.9 | 3.0 | 22.2 |
| P3417 | 2 | 2.375 | 500 | 120 | 2 | 4 | 10 | 55 |
| | 50.8 | 60.3 | 2.22 | 0.53 | 50.8 | 101.6 | 3.4 | 24.9 |

Safety factor of 5

MU025 THRU MU400

MUSTANG UNIVERSAL ONE-PIECE PIPE, CONDUIT (GRC, EMT & IMC) AND TUBING CLAMPS 



Finish: Electro-galvanized.
Clamps are 14 ga.

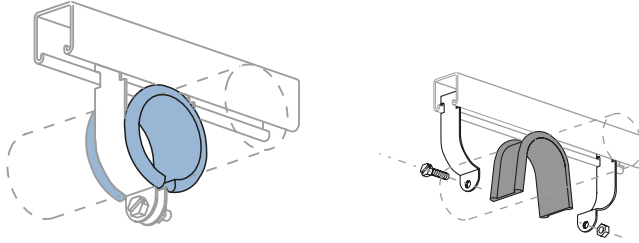
| Part No. | Nominal Trade Size | Trade Size O.D. | | Height Above Channel "H" | |
|----------|--------------------|-----------------|-------------|--------------------------|-------------|
| | In (mm) | Min In (mm) | Max In (mm) | Min In (mm) | Max In (mm) |
| MU025 | ¼ | 0.375 | 0.5 | 1¼ | 2 |
| | 6.4 | 9.5 | 13.7 | 44.5 | 50.8 |
| MU037 | ¾ | 0.5 | 0.7 | 1⅞ | 2⅞ |
| | 9.5 | 12.7 | 17.1 | 47.6 | 54.0 |
| MU050 | ½ | 0.63 | 0.84 | 2 | 2¼ |
| | 12.7 | 15.9 | 21.3 | 50.8 | 57.2 |
| MU075 | ¾ | 0.88 | 1.05 | 2¼ | 2½ |
| | 19.1 | 22.2 | 26.7 | 57.2 | 63.5 |
| MU100 | 1 | 1.13 | 1.32 | 2⅞ | 2¾ |
| | 25.4 | 28.6 | 33.4 | 60.3 | 69.9 |
| MU125 | 1¼ | 1.38 | 1.66 | 2¾ | 3⅞ |
| | 31.8 | 34.9 | 42.2 | 69.9 | 79.4 |
| MU150 | 1½ | 1.63 | 1.90 | 3 | 3⅞ |
| | 38.1 | 41.3 | 48.3 | 76.2 | 85.7 |
| MU200 | 2 | 2.13 | 2.38 | 3⅞ | 3⅞ |
| | 50.8 | 54.0 | 60.3 | 85.7 | 98.4 |
| MU250 | 2½ | 2.63 | 2.88 | 4¼ | 4⅞ |
| | 63.5 | 66.7 | 73.0 | 108.0 | 117.5 |
| MU300 | 3 | 3.13 | 3.50 | 4⅞ | 5⅞ |
| | 76.2 | 79.4 | 88.9 | 123.8 | 136.5 |
| MU350 | 3½ | 3.63 | 4.00 | 5¼ | 5⅞ |
| | 88.9 | 92.1 | 101.6 | 133.4 | 149.2 |
| MU400 | 4 | 4.13 | 4.50 | 5¾ | 6⅞ |
| | 101.6 | 104.8 | 114.3 | 146.1 | 161.9 |



P2600

UNICUSHION®: ISOLATION MATERIAL

Wt/Carton: 2.5 Lbs (1.1 kg)



- 25 feet per carton.
- Cut to length as shown in chart below.

UNICUSHION FEATURES

- Shock absorption
- Protection from corrosion and abrasion
- Allowance for expansion and contraction in pipe diameter
- Sound and vibration isolation
- Stability in use from - 50° F (-47° C) to + 350°F (+177° C)
- Flexible elastomer material
- Will not support combustion

UNICUSHION® CLAMP SELECTION GUIDE

EMT CONDUIT

| Nominal Size | Use with Clamp | UNICUSHION Length In (mm) |
|--------------|----------------|---------------------------|
| 3/8" | P1426 | 1 1/4 (44.5) |
| 1/2" | P1111 | 2 1/8 (54.0) |
| 3/4" | P1112 | 2 3/4 (69.9) |
| 1" | P2032 | 3 5/8 (92.1) |
| 1 1/4" | P2035 | 4 3/4 (120.7) |
| 1 1/2" | P2037 | 5 1/2 (139.7) |
| 2" | P1117 | 6 3/4 (171.5) |

STANDARD PIPE OR RIGID CONDUIT

| Nominal Size | Use with Clamp | UNICUSHION Length In (mm) |
|--------------|----------------|---------------------------|
| 3/8" | P1111 | 2 1/8 (54.0) |
| 1/2" | P2030 | 3 (76.2) |
| 3/4" | P2031 | 3 1/4 (82.6) |
| 1" | P2034 | 4 1/4 (108.0) |
| 1 1/4" | P2037 | 5 1/4 (133.4) |
| 1 1/2" | P2038 | 6 (152.4) |
| 2" | P2042 | 7 1/2 (190.5) |
| 2 1/2" | P2046 | 9 (228.6) |
| 3" | P2051 | 11 (279.4) |
| 3 1/2" | P2055 | 12 1/4 (311.2) |
| 4" | P2059 | 14 (355.6) |
| 5" | P2067 | 17 1/2 (444.5) |
| 6" | P2070-66 | 20 3/4 (527.1) |

COPPER TUBING TYPE K OR L

| Nominal Size | Use with Clamp | UNICUSHION Length In (mm) |
|--------------|----------------|---------------------------|
| 1/4" | P2026 | 1 1/16 (27.0) |
| 3/8" | P2027 | 1 1/2 (38.1) |
| 1/2" | P2028 | 2 1/8 (54.0) |
| 5/8" | P2029 | 2 1/4 (57.2) |
| 3/4" | P2030 | 3 (76.2) |
| 1" | P2032 | 3 5/8 (92.1) |
| 1 1/4" | P2034 | 4 1/2 (114.3) |
| 1 1/2" | P1430 | 5 1/4 (133.4) |
| 2" | P2040 | 6 3/4 (171.5) |
| 2 1/2" | P2044 | 8 1/4 (209.6) |
| 3" | P2048 | 10 (254.0) |
| 3 1/2" | P2052 | 11 1/4 (285.8) |
| 4" | P2056 | 12 1/2 (317.5) |
| 5" | P2064 | 16 (406.4) |
| 6" | P2070-62 | 19 (482.6) |
| 8" | P2070-82 | 25 (635.0) |

UNICUSHION® CLAMP CUTTING GUIDE

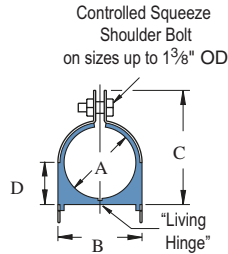
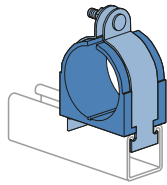
| O. D. Size In (mm) | Use With Clamp | UNICUSHION Length In (mm) |
|--------------------|----------------|---------------------------|
| 1/4 (6.4) | P2025 | 7/8 (22.2) |
| 3/8 (9.5) | P2026 | 1 1/16 (27.0) |
| 1/2 (12.7) | P2027 | 1 1/2 (38.1) |
| 5/8 (15.9) | P2028 | 2 1/8 (54.0) |
| 3/4 (19.1) | P2029 | 2 1/4 (57.2) |
| 7/8 (22.2) | P2030 | 3 (76.2) |
| 1 (25.4) | P2031 | 3 1/4 (82.6) |
| 1 1/8 (28.6) | P2032 | 3 5/8 (92.1) |
| 1 1/4 (31.8) | P2033 | 4 (101.6) |
| 1 3/8 (34.9) | P2034 | 4 1/2 (114.3) |
| 1 1/2 (38.1) | P2035 | 4 3/4 (123.8) |
| 1 5/8 (41.3) | P1430 | 5 1/4 (133.4) |
| 1 3/4 (44.5) | P2037 | 5 1/2 (139.7) |
| 1 7/8 (47.6) | P2038 | 6 (152.4) |
| 2 (50.8) | P2039 | 6 1/2 (165.1) |
| 2 1/8 (54.0) | P2040 | 6 3/4 (171.5) |
| 2 1/4 (57.2) | P1117 | 7 1/4 (184.2) |
| 2 3/8 (60.3) | P2042 | 7 1/2 (190.5) |
| 2 1/2 (63.5) | P2043 | 8 (203.2) |
| 2 5/8 (66.7) | P2044 | 8 1/4 (209.6) |
| 2 3/4 (69.9) | P1118 | 8 3/4 (222.3) |
| 2 7/8 (73.0) | P2046 | 9 1/4 (235.0) |
| 3 (76.2) | P2047 | 9 1/2 (241.3) |

| O. D. Size In (mm) | Use With Clamp | UNICUSHION Length In (mm) |
|--------------------|----------------|---------------------------|
| 3/8 (9.5) | P2048 | 10 (254.0) |
| 3/4 (9.5) | P2049 | 10 1/2 (266.7) |
| 3/8 (85.7) | P1119 | 10 3/4 (273.1) |
| 3 1/2 (88.9) | P2051 | 11 (279.4) |
| 3 3/8 (92.1) | P2052 | 11 1/4 (285.8) |
| 3 3/4 (95.3) | P2053 | 11 1/2 (292.1) |
| 3 7/8 (98.4) | P1120 | 11 3/4 (298.5) |
| 4 (101.6) | P2055 | 12 (304.8) |
| 4 1/8 (104.8) | P2056 | 12 1/2 (317.5) |
| 4 1/4 (108.0) | P2057 | 13 (330.2) |
| 4 3/8 (111.1) | P1121 | 13 1/2 (342.9) |
| 4 1/2 (114.3) | P2059 | 14 (355.6) |
| 4 5/8 (117.5) | P2060 | 14 1/4 (362.0) |
| 4 3/4 (120.7) | P2061 | 14 3/4 (374.7) |
| 4 7/8 (123.8) | P2062 | 15 (381.0) |
| 5 (127.0) | P2063 | 15 1/2 (393.7) |
| 5 1/8 (130.2) | P2064 | 16 (406.4) |
| 5 1/4 (133.4) | P2065 | 16 1/4 (412.8) |
| 5 3/8 (136.5) | P2066 | 16 1/2 (419.1) |
| 5 1/2 (139.7) | P2067 | 17 (431.8) |
| 5 3/4 (142.9) | P2068 | 17 1/2 (444.5) |
| 5 7/8 (146.1) | P2069 | 17 3/4 (450.9) |
| 6 (149.2) | P2070 | 18 1/4 (463.6) |

| O. D. Size In (mm) | Use With Clamp | UNICUSHION Length In (mm) |
|--------------------|----------------|---------------------------|
| 6 (152.4) | P2070-61 | 18 1/2 (469.9) |
| 6 1/8 (155.6) | P2070-62 | 19 (482.6) |
| 6 1/4 (158.8) | P2070-63 | 19 1/4 (489.0) |
| 6 3/8 (161.9) | P2070-64 | 19 3/4 (501.7) |
| 6 1/2 (165.1) | P1124 | 20 (508.0) |
| 6 5/8 (168.3) | P2070-66 | 20 1/2 (520.7) |
| 6 3/4 (171.5) | P2070-67 | 21 (533.4) |
| 6 7/8 (174.6) | P2070-70 | 21 1/4 (539.8) |
| 7 (177.8) | P2070-71 | 21 3/4 (552.5) |
| 7 1/8 (181.0) | P2070-72 | 22 (558.8) |
| 7 1/4 (184.2) | P2070-73 | 22 1/2 (571.5) |
| 7 3/8 (187.3) | P2070-74 | 22 3/4 (577.9) |
| 7 1/2 (190.5) | P2070-75 | 23 1/4 (590.6) |
| 7 5/8 (193.7) | P2070-76 | 23 1/2 (596.9) |
| 7 3/4 (196.9) | P2070-77 | 24 (609.6) |
| 7 7/8 (200.0) | P2070-80 | 24 1/2 (622.3) |
| 8 (203.2) | P2070-81 | 24 3/4 (628.7) |
| 8 1/8 (206.4) | P2070-82 | 25 (635.0) |
| 8 1/4 (209.6) | P2070-83 | 25 1/2 (647.7) |
| 8 3/8 (212.7) | P2070-84 | 26 (660.4) |
| 8 1/2 (215.9) | P1126 | 26 1/4 (666.8) |

004T008 THRU 098N106, 009N012 THRU 106N114

CUSH-A-CLAMP® ASSEMBLY 



Materials:

Clamp: Electro-galvanized or stainless steel.
Cushion: Thermoplastic elastomer. (UV Resistant)

Includes cushion, clamp and hardware.

Temperature Rating:

-50°F to +275°F (-45°C to +135°C)

Insert Width: 1.56" (39.6)

Part Numbers are "coded" to designate cushion size and clamp size. Examples:

- 004T008** 004 - Cushion Size 1/16" (6.4)
T - With Controlled Squeeze Shoulder Bolt
Available on sizes up to 1 3/8"
- 008 - Clamp Size 3/16" (12.7)
- 009N012** 009 - Cushion Size 3/16" (14.3)
N - With Standard Bolt
- 012 - Clamp Size 1/2" (19.1)

Pipe Series Assembly

| Part No. | Nominal Pipe Size | Dimensions | | | | Wt/100 pcs Lbs/(kg) |
|----------|-------------------|---------------|---------------|---------------|---------------|------------------------|
| | | "A" In(mm) | "B" In(mm) | "C" In(mm) | "D" In(mm) | |
| 009N012 | 1/4 | 0.54 13.7 | 0.98 24.9 | 1.34 34.0 | 0.43 10.9 | 13 5.9 |
| 011N014 | 3/8 | 0.67 17.0 | 1.13 28.7 | 1.54 39.1 | 0.49 12.4 | 14 6.4 |
| 014N018 | 1/2 | 0.84 21.3 | 1.29 32.8 | 1.82 46.2 | 0.58 14.7 | 15 6.8 |
| 017N022 | 3/4 | 1.05 26.7 | 1.5 38.1 | 1.95 49.5 | 0.7 17.8 | 17 7.7 |
| 021N026 | 1 | 1.31 33.3 | 1.76 44.7 | 2.34 59.4 | 0.81 20.6 | 19 8.6 |
| 027N032 | 1 1/4 | 1.66 42.2 | 2.17 55.1 | 2.73 69.3 | 0.99 25.1 | 35 15.9 |
| 030N034* | 1 1/2 | 1.9 48.3 | 2.35 59.7 | 2.86 72.6 | 1.09 27.7 | 39 17.7 |
| 038N044 | 2 | 2.37 60.2 | 2.82 71.6 | 3.67 93.2 | 1.41 35.8 | 49 22.2 |
| 046N052 | 2 1/2 | 2.87 72.9 | 3.32 84.3 | 4.17 105.9 | 1.66 42.2 | 57 25.9 |
| 056N062 | 3 | 3.5 88.9 | 3.95 100.3 | 4.79 121.7 | 1.97 50.0 | 55 24.9 |
| 064N072 | 3 1/2 | 4 101.6 | 4.45 113.0 | 5.42 137.7 | 2.28 57.9 | 88 39.9 |
| 072N080 | 4 | 4.5 114.3 | 4.95 125.7 | 5.92 150.4 | 2.53 64.3 | 110 49.9 |
| 089N096 | 5 | 5.56 141.2 | 6.01 152.7 | 6.92 175.8 | 3.06 77.7 | 130 59.0 |
| 106N114 | 6 | 6.62 168.1 | 7.07 179.6 | 8.23 209.0 | 3.59 91.2 | 140 63.5 |

Tube Series Assembly

| Part Number | Copper & Steel Tube O. D. Size | Copper Water Pipe (Nominal) | Dimensions | | | | Wt/100 pcs Lbs/(kg) |
|-------------|--------------------------------|-----------------------------|---------------|---------------|---------------|---------------|------------------------|
| | | | "A" In(mm) | "B" In(mm) | "C" In(mm) | "D" In(mm) | |
| 004T008 | 1/4 | | 0.25 6.4 | 0.62 15.7 | 0.98 24.9 | 0.27 6.9 | 10 4.5 |
| 006T010 | 3/8 | 1/4 | 0.37 9.4 | 0.82 20.8 | 1.13 28.7 | 0.33 8.4 | 11 5.0 |
| 008T012 | 1/2 | 3/8 | 0.5 12.7 | 0.94 23.9 | 1.34 34.0 | 0.4 10.2 | 13 5.9 |
| 010T014 | 5/8 | 1/2 | 0.62 15.7 | 1.06 26.9 | 1.54 39.1 | 0.46 11.7 | 14 6.4 |
| 012T016 | 3/4 | 5/8 | 0.75 19.1 | 1.2 30.5 | 1.68 42.7 | 0.52 13.2 | 14 6.4 |
| 014T018 | 7/8 | 3/4 | 0.87 22.1 | 1.31 33.3 | 1.82 46.2 | 0.58 14.7 | 15 6.8 |
| 016T020 | 1 | | 1 25.4 | 1.44 36.6 | 1.95 49.5 | 0.65 16.5 | 17 7.7 |
| 018T022 | 1 1/8 | 1 | 1.12 28.4 | 1.57 39.9 | 2.08 52.8 | 0.7 17.8 | 18 8.2 |
| 020T024 | 1 1/4 | | 1.25 31.8 | 1.7 43.2 | 2.21 56.1 | 0.77 19.6 | 18 8.2 |
| 022T026 | 1 3/8 | 1 1/4 | 1.37 34.8 | 1.82 46.2 | 2.34 59.4 | 0.83 21.1 | 20 9.1 |
| 024N028 | 1 1/2 | | 1.5 38.1 | 1.95 49.5 | 2.47 62.7 | 0.9 22.9 | 33 15.0 |
| 026N030 | 1 5/8 | 1 1/2 | 1.62 41.1 | 2.07 52.6 | 2.6 66.0 | 0.96 24.4 | 35 15.9 |
| 028N032 | 1 3/4 | | 1.75 44.5 | 2.2 55.9 | 2.73 69.3 | 1.02 25.9 | 37 16.8 |
| 030N034 | 1 7/8 | | 1.9 48.3 | 2.35 59.7 | 2.86 72.6 | 1.09 27.7 | 39 17.7 |
| 032N036 | 2 | | 2 50.8 | 2.45 62.2 | 3.04 77.2 | 1.15 29.2 | 46 20.9 |
| 034N040 | 2 1/8 | 2 | 2.12 53.8 | 2.57 65.3 | 3.23 82.0 | 1.27 32.3 | 47 21.3 |
| 038N044 | 2 3/8 | | 2.37 60.2 | 2.82 71.6 | 3.67 93.2 | 1.41 35.8 | 49 22.2 |
| 040N046 | 2 1/2 | | 2.5 63.5 | 2.94 74.7 | 3.79 96.3 | 1.46 37.1 | 51 23.1 |
| 042N048 | 2 7/8 | 2 1/2 | 2.62 66.5 | 3.1 78.0 | 3.92 99.6 | 1.53 38.9 | 55 24.9 |
| 046N052 | 2 3/4 | | 2.87 72.9 | 3.3 84.3 | 4.17 105.9 | 1.66 42.2 | 57 25.9 |
| 050N054 | 3 | | 3 76.2 | 3.6 90.7 | 4.42 112.3 | 1.78 45.2 | 60 27.2 |
| 050N056 | 3 1/8 | 3 | 3.12 79.2 | 3.6 90.7 | 4.42 112.3 | 1.78 45.2 | 60 27.2 |
| 053N060 | 3 3/8 | | 3.31 84.1 | 4.0 100.6 | 4.75 120.7 | 1.9 48.3 | 62 28.1 |
| 056N062 | 3 1/2 | | 3.5 88.9 | 4.0 100.3 | 4.79 121.7 | 1.97 50.0 | 55 24.9 |
| 058N064 | 3 7/8 | 3 1/2 | 3.62 91.9 | 4.2 106.7 | 4.99 126.7 | 2.03 51.6 | 70 31.8 |
| 064N072 | 4 | | 4 101.6 | 4.5 113.0 | 5.42 137.7 | 2.28 57.9 | 88 39.9 |
| 066N074 | 4 1/8 | 4 | 4.12 104.6 | 4.6 116.1 | 5.54 140.7 | 2.34 59.4 | 94 42.6 |
| 069N076 | 4 3/8 | | 4.34 110.2 | 5.0 126.0 | 5.84 148.3 | 2.4 61.0 | 100 45.4 |
| 072N080 | 4 1/2 | | 4.5 114.3 | 5.0 125.7 | 5.92 150.4 | 2.53 64.3 | 110 49.9 |
| 082N090 | 5 1/8 | 5 | 5.12 130.0 | 5.6 141.5 | 6.54 166.1 | 2.84 72.1 | 125 56.7 |
| 098N106 | 6 1/8 | 6 | 6.12 155.4 | 6.6 166.9 | 7.54 191.5 | 3.34 84.8 | 130 59.0 |



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

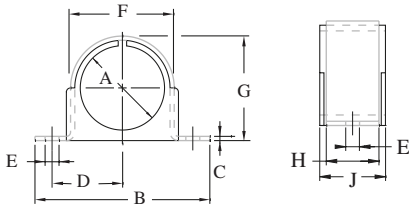
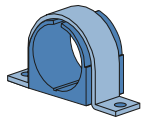
Solar

Unipier®

004M007 THRU 034M040 CUSH-A-CLAMP®



Assembly Omega Series™



Includes clamp and cushion.

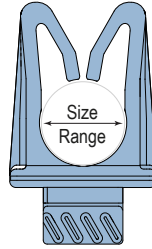
Materials: Clamp: ZD or stainless steel.

Cushion: Thermoplastic elastomer.

Note: 1-1/4 and larger can be used with Unistrut Channel.

Can be mounted to any flat surface.

CUSH-A-CLAW™



UV standardized thermo plastic

Temp Range: -50° to 275°F

Sure Grip Base

No Fasteners needed

Corrosion resistant

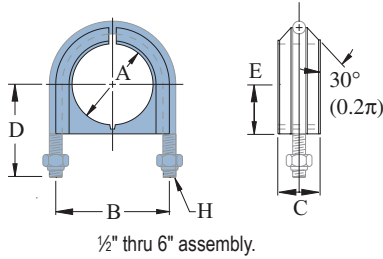
Prevents Galvanic Corrosion - Great for Unistrut® Defender™

| Part Number | Size |
|-------------|--------|
| CL04 | 1/4" |
| CL06 | 3/8" |
| CL08 | 1/2" |
| CL10 | 5/8" |
| CL12 | 3/4" |
| CL14 | 7/8" |
| CL18 | 1-1/8" |

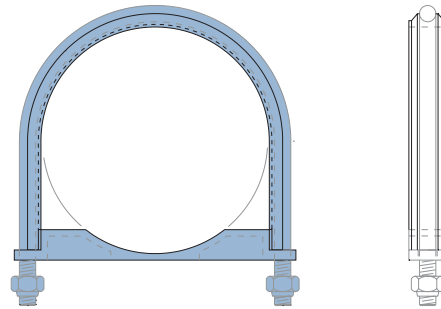
| Part Number | Copper & Steel Tubing O. D. In | Copper Water Pipe (Nominal) In | Pipe Size (Nominal) In | Dimensions | | | | | | | | | Wt/100 pcs Lbs (kg) |
|-------------|--------------------------------|--------------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| | | | | "A" In (mm) | "B" In (mm) | "C" In (mm) | "D" In (mm) | "E" In (mm) | "F" In (mm) | "G" In (mm) | "H" In (mm) | "J" In (mm) | |
| 004M007 | 1/4 | | | 0.25 | 1.8 | 0.06 | 0.6 | 0 | 0.53 | 0.48 | 0.62 | 0.78 | 3.4 |
| | | | | 6.4 | 46.0 | 1.5 | 15.2 | 5.1 | 13.5 | 12.2 | 15.7 | 19.8 | 1.5 |
| 006M008 | 3/8 | 1/4 | | 0.37 | 1.9 | 0.06 | 0.65 | 0 | 0.62 | 0.62 | 0.62 | 0.81 | 4.0 |
| | | | | 9.4 | 48.3 | 1.5 | 16.5 | 5.1 | 15.7 | 15.7 | 15.7 | 20.6 | 1.8 |
| 008M011 | 1/2 | 3/8 | 1/4 | 0.5 | 2.2 | 0.06 | 0.8 | 0 | 0.82 | 0.75 | 0.75 | 0.98 | 5.5 |
| | | | | 12.7 | 55.9 | 1.5 | 20.3 | 6.6 | 20.8 | 19.1 | 19.1 | 24.9 | 2.5 |
| 010M013 | 5/8 | 1/2 | 3/8 | 0.62 | 2.3 | 0.06 | 0.86 | 0 | 0.94 | 0.87 | 0.75 | 0.98 | 6.0 |
| | | | | 15.7 | 58.9 | 1.5 | 21.8 | 6.6 | 23.9 | 22.1 | 19.1 | 24.9 | 2.7 |
| 012M015 | 3/4 | 5/8 | | 0.75 | 2.4 | 0.06 | 0.9 | 0 | 1.03 | 1.01 | 0.75 | 0.98 | 6.5 |
| | | | | 19.1 | 61.2 | 1.5 | 22.9 | 6.6 | 26.2 | 25.7 | 19.1 | 24.9 | 2.9 |
| 014M017 | 7/8 | 3/4 | 1/2 | 0.87 | 2.6 | 0.06 | 0.98 | 0 | 1.18 | 1.03 | 0.75 | 0.98 | 7.1 |
| | | | | 22.1 | 65.0 | 1.5 | 24.9 | 6.6 | 30.0 | 26.2 | 19.1 | 24.9 | 3.2 |
| 016M019 | 1 | | | 1 | 2.7 | 0.06 | 1.04 | 0 | 1.31 | 1.25 | 0.75 | 0.98 | 7.8 |
| | | | | 25.4 | 68.1 | 1.5 | 26.4 | 6.6 | 33.3 | 31.8 | 19.1 | 24.9 | 3.5 |
| 018M020 | | | 3/4 | 1.05 | 2.7 | 0.06 | 1.04 | 0 | 1.31 | 1.25 | 0.75 | 0.98 | 8.1 |
| | | | | 26.7 | 68.1 | 1.5 | 26.4 | 6.6 | 33.3 | 31.8 | 19.1 | 24.9 | 3.7 |
| 018M021 | 1 1/8 | 1 | | 1.12 | 2.8 | 0.06 | 1.11 | 0 | 1.44 | 1.33 | 0.75 | 0.98 | 8.4 |
| | | | | 28.4 | 71.6 | 1.5 | 28.2 | 6.6 | 36.6 | 33.8 | 19.1 | 24.9 | 3.8 |
| 020M024 | 1 1/4 | | | 1.25 | 3.0 | 0.08 | 1.2 | 0 | 1.65 | 1.47 | 1.25 | 1.56 | 17 |
| | | | | 31.8 | 76.2 | 2.0 | 30.5 | 6.6 | 41.9 | 37.3 | 31.8 | 39.6 | 7.7 |
| 021M026 | | | 1 | 1.31 | 3.1 | 0.08 | 1.26 | 0 | 1.76 | 1.71 | 1.25 | 1.56 | 20 |
| | | | | 33.3 | 79.2 | 2.0 | 32.0 | 6.6 | 44.7 | 43.4 | 31.8 | 39.6 | 9.1 |
| 022M026 | 1 3/8 | 1 1/4 | | 1.37 | 3.1 | 0.08 | 1.26 | 0 | 1.76 | 1.71 | 1.25 | 1.56 | 19 |
| | | | | 34.8 | 79.2 | 2.0 | 32.0 | 6.6 | 44.7 | 43.4 | 31.8 | 39.6 | 8.6 |
| 024M028 | 1 1/2 | | | 1.5 | 3.7 | 0.08 | 1.42 | 0 | 1.93 | 1.88 | 1.25 | 1.56 | 20 |
| | | | | 38.1 | 92.7 | 2.0 | 36.1 | 6.6 | 49.0 | 47.8 | 31.8 | 39.6 | 9.1 |
| 026M030 | 1 5/8 | 1 1/2 | | 1.62 | 3.8 | 0.08 | 1.48 | 0 | 2.07 | 2 | 1.25 | 1.56 | 23 |
| | | | | 41.1 | 95.8 | 2.0 | 37.6 | 6.6 | 52.6 | 50.8 | 31.8 | 39.6 | 10.4 |
| 027M032 | | | 1 1/4 | 1.66 | 3.9 | 0.1 | 1.55 | 0 | 2.21 | 2.12 | 1.25 | 1.56 | 32 |
| | | | | 42.2 | 99.1 | 2.5 | 39.4 | 8.4 | 56.1 | 53.8 | 31.8 | 39.6 | 14.5 |
| 028M032 | 1 3/4 | | | 1.75 | 3.9 | 0.1 | 1.55 | 0 | 2.21 | 2.12 | 1.25 | 1.56 | 32 |
| | | | | 44.5 | 99.1 | 2.5 | 39.4 | 8.4 | 56.1 | 53.8 | 31.8 | 39.6 | 14.5 |
| 030M034 | 1 7/8 | | 1 1/2 | 1.87 | 4.0 | 0.1 | 1.61 | 0 | 2.33 | 2.25 | 1.25 | 1.56 | 34 |
| | | | | 47.5 | 102.1 | 2.5 | 40.9 | 8.4 | 59.2 | 57.2 | 31.8 | 39.6 | 15.4 |
| 032M036 | 2 | | | 2 | 4.2 | 0.1 | 1.67 | 0 | 2.46 | 2.38 | 1.25 | 1.56 | 36 |
| | | | | 50.8 | 105.4 | 2.5 | 42.4 | 8.4 | 62.5 | 60.5 | 31.8 | 39.6 | 16.3 |
| 034M040 | 2 1/8 | | | 2.12 | 4.4 | 0.1 | 1.8 | 0 | 2.71 | 2.62 | 1.25 | 1.56 | 41 |
| | | | | 53.8 | 111.8 | 2.5 | 45.7 | 8.4 | 68.8 | 66.5 | 31.8 | 39.6 | 18.6 |
| 038M044 | | | 2 | 2.37 | 4.7 | 0.1 | 1.94 | 0 | 2.96 | 2.88 | 1.25 | 1.56 | 44 |
| | | | | 60.2 | 119.6 | 2.5 | 49.3 | 8.4 | 75.2 | 73.2 | 31.8 | 39.6 | 20.0 |
| 082M090 | 5 1/8 | | 5 | 5.12 | 7.6 | 0.1 | 3.41 | 0 | 5.83 | 6.75 | 1.25 | 1.56 | 120 |
| | | | | 130.0 | 194.1 | 2.5 | 86.6 | 10.2 | 148.1 | 171.5 | 31.8 | 39.6 | 54.4 |

UB½PA THRU UB12PA

CUSH-A-CLAMP® ASSEMBLY U-BOLT SERIES **LEG**



½" thru 6" assembly.



8" thru 12" assembly.

Includes: U bolt, cushion, and hardware.

Materials:

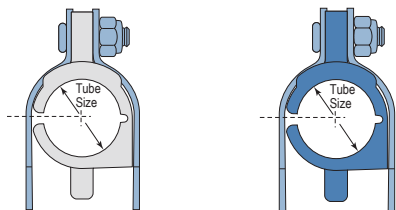
U Bolt: Electro-galvanized finish or Type 316 SS

Cushion: Thermoplastic elastomer.

Note: Not intended for use with metal framing components due to the length of the thread.

| Part Number | Pipe Size (Nominal) In (mm) | Dimensions | | | | | | H | Wt/100 pcs Lbs (kg) |
|-------------|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|------------------------|
| | | "A" In (mm) | "B" In (mm) | "C" In (mm) | "D" In (mm) | "E" In (mm) | "F" In (mm) | | |
| UB1/2PA | ½ | 0.84 | 1.6 | 0.68 | 1.5 | 1 | ¼ | ¼-20 UNC-2B | 9 |
| | 12.7 | 21.3 | 40.6 | 17.3 | 38.1 | 17.0 | 6.4 | | 4.1 |
| UB3/4PA | ¾ | 1.1 | 1.8 | 0.7 | 1.6 | 0.8 | ¼ | ¼-20 UNC-2B | 10 |
| | 19.1 | 26.7 | 45.7 | 17.3 | 40.6 | 19.8 | 6.4 | | 4.5 |
| UB1PA | 1 | 1.3 | 2.1 | 0.7 | 1.7 | 0.9 | ¼ | ¼-20 UNC-2B | 12 |
| | 25.4 | 33.3 | 52.1 | 17.3 | 43.2 | 23.1 | 6.4 | | 5.4 |
| UB1¼PA | 1¼ | 1.7 | 2.5 | 1.2 | 2.1 | 1.1 | ⅜ | ⅜-16 UNC-2B | 36 |
| | 31.8 | 42.2 | 64.5 | 31.5 | 53.3 | 27.4 | 9.5 | | 16.3 |
| UB1½PA | 1½ | 1.9 | 2.8 | 1.2 | 2.2 | 1.2 | ⅜ | ⅜-16 UNC-2B | 32 |
| | 38.1 | 48.3 | 70.6 | 31.5 | 55.9 | 30.2 | 9.5 | | 14.5 |
| UB2PA | 2 | 2.4 | 3.3 | 1.2 | 2.5 | 1.5 | ⅝ | ⅝-16 UNC-2B | 42 |
| | 50.8 | 60.2 | 84.3 | 31.5 | 63.5 | 36.8 | 9.5 | | 19.1 |
| UB2½PA | 2½ | 2.9 | 3.9 | 1.2 | 3.0 | 1.7 | ½ | ½-13 UNC-2B | 72 |
| | 63.5 | 72.9 | 98.6 | 31.5 | 76.2 | 42.9 | 12.7 | | 32.7 |
| UB3PA | 3 | 3.5 | 4.5 | 1.2 | 3.3 | 2.0 | ½ | ½-13 UNC-2B | 84 |
| | 76.2 | 88.9 | 114.3 | 31.5 | 83.8 | 50.8 | 12.7 | | 38.1 |
| UB3½PA | 3½ | 4.0 | 5.0 | 1.2 | 3.7 | 2.3 | ½ | ½-13 UNC-2B | 93 |
| | 88.9 | 101.6 | 127.0 | 31.5 | 94.0 | 57.2 | 12.7 | | 42.2 |
| UB4PA | 4 | 4.5 | 5.5 | 1.2 | 3.9 | 2.5 | ½ | ½-13 UNC-2B | 102 |
| | 101.6 | 114.3 | 139.7 | 31.5 | 99.1 | 63.5 | 12.7 | | 46.3 |
| UB5PA | 5 | 5.6 | 6.6 | 1.2 | 4.5 | 3.0 | ½ | ½-13 UNC-2B | 123 |
| | 127.0 | 141.2 | 167.4 | 31.5 | 114.3 | 77.0 | 12.7 | | 55.8 |
| UB6PA | 6 | 6.6 | 7.8 | 1.4 | 5.4 | 3.6 | ⅝ | ⅝-11 UNC-2B | 123 |
| | 152.4 | 168.1 | 198.4 | 36.6 | 137.2 | 90.4 | 15.9 | | 55.8 |
| UB8PA | 8 | 8.6 | 9.8 | 1.4 | 6.4 | 4.6 | ⅝ | ⅝-11 UNC-2B | 243 |
| | 203.2 | 218.9 | 249.9 | 36.6 | 162.6 | 115.8 | 15.9 | | 110.2 |
| UB10PA | 10 | 10.8 | 12.3 | 1.7 | 7.7 | 5.7 | ¾ | ¾-10 UNC-2B | 492 |
| | 254.0 | 273.1 | 311.2 | 41.9 | 195.6 | 144.3 | 19.1 | | 223.2 |
| UB12PA | 12 | 12.8 | 14.3 | 1.7 | 8.7 | 6.7 | ¾ | ¾-10 UNC-2B | 563 |
| | 304.8 | 323.9 | 362.0 | 41.9 | 221.0 | 169.7 | 19.1 | | 255.4 |

CUSH-A-NATOR®



The Cush-A-Nator cushion is made from a new extremely durable thermoplastic rubber that resists high heat and provides longer life against vibration fatigue.

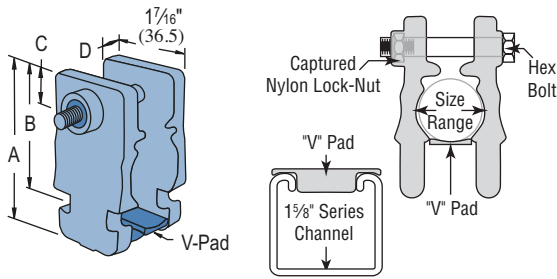
| Part Number | Clamp Material | Size |
|-------------|----------------|--------|
| CN04 | Steel | 1/4" |
| CN26 | Steel | 1-5/8" |
| CN24 | Steel | 1-1/2" |
| CN22 | Steel | 1-3/8" |
| CN18 | Steel | 1-1/8" |
| CN16 | Steel | 1" |
| CN14 | Steel | 7/8" |
| CN12 | Steel | 3/4" |
| CN10 | Steel | 5/8" |
| CN08 | Steel | 1/2" |
| CN06 | Steel | 3/8" |
| CN34 | Steel | 1-1/8" |

| Part Number | Clamp Material | Size |
|-------------|----------------|--------|
| HT04 | Steel | 1/4" |
| HT26 | Steel | 1-5/8" |
| HT24 | Steel | 1-1/2" |
| HT22 | Steel | 1-3/8" |
| HT18 | Steel | 1-1/8" |
| HT16 | Steel | 1" |
| HT14 | Steel | 7/8" |
| HT10 | Steel | 5/8" |
| HT08 | Steel | 1/2" |
| HT06 | Steel | 3/8" |
| HT34 | Steel | 2-1/8" |



CG-10 THRU CG-40

CUSH-A-GRIP®



| Part Number | O.D. Tube Sizes In(mm) | | | Nominal Pipe Sizes In(mm) | | Diameters In(mm) | PullOut Lbs(kN) | Slip Load Lbs(kN) |
|-------------|------------------------|-------|-------|---------------------------|------|------------------|-----------------|-------------------|
| CG-10 | 1/4 | 3/8 | 1/2 | 1/4 | | 0.25 - 0.54 | 500 | 40 |
| | 6.4 | 9.5 | 12.7 | 6.4 | | 6.4 - 13.7 | 2.22 | 0.18 |
| CG-20 | 5/8 | 3/4 | 7/8 | 3/8 | 1/2 | 0.62 - 0.87 | 500 | 40 |
| | 15.9 | 19.1 | 22.2 | 9.5 | 12.7 | 15.7 - 22.1 | 2.22 | 0.18 |
| CG-30 | 7/8 | 1 | 1 1/8 | 3/4 | | 0.87 - 1.12 | 500 | 40 |
| | 22.2 | 25.4 | 28.6 | 19.1 | | 22.1 - 28.4 | 2.22 | 0.18 |
| CG-40 | 1 | 1 1/8 | 1 1/4 | 3/4 | 1 | 1.00 - 1.31 | 500 | 40 |
| | 25.4 | 28.6 | 31.8 | 19.1 | 25.4 | 25.4 - 33.3 | 2.22 | 0.18 |

Includes: Cushion, V-pad, and Hardware.

Materials: Cushion: Thermoplastic elastomer.

Hardware: Stainless Steel with Captured Nylon Locknut

Temperature Rating: -40°F to +275°F (-40°C to 135°C)

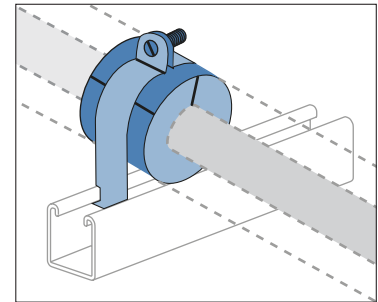
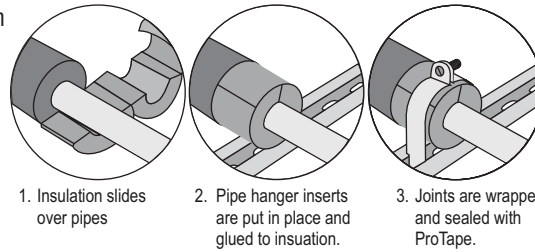
| Part Number | Nominal Pipe Size | Dimensions | | | | Hex Head Cap Screw & Lock Nut | Wt/100 pcs Lbs(kg) |
|-------------|-------------------|------------|------------|------------|------------|-------------------------------|--------------------|
| | | "A" In(mm) | "B" In(mm) | "C" In(mm) | "D" In(mm) | | |
| CG-10 | 1/4 | 1 1/16 | 1 3/8 | 3/8 | 3/16 | 1/4-20 x 1 1/2" | 4 |
| | | 49.2 | 34.9 | 9.5 | 4.8 | | 1.8 |
| CG-20 | 3/8 | 2 3/8 | 1 5/8 | 7/16 | 1/4 | 1/4-20 x 2" | 6 |
| | | 60.3 | 41.3 | 11 | 6.4 | | 2.7 |
| CG-30 | 1/2 | 2 9/16 | 1 3/16 | 7/16 | 5/16 | 1/4-20 x 2" | 8 |
| | | 65.1 | 46.0 | 11 | 7.9 | | 3.6 |
| CG-40 | 3/4 | 2 1/4 | 1 5/16 | 7/16 | 5/16 | 1/4-20 x 2" | 8 |
| | | 68.3 | 49.2 | 11 | 7.9 | | 3.6 |

PUX1234 THRU PUX41810

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



Nominal 3/4" Wall

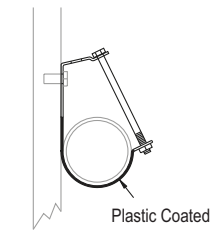
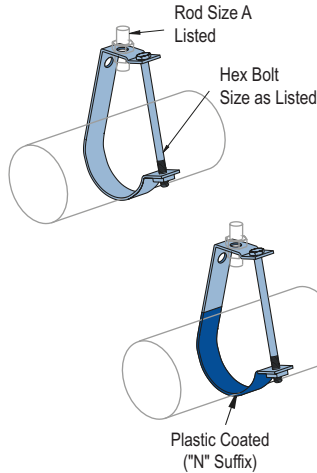
| Part Number | Hole Size In(mm) | Copper Nom. I.D. In(mm) | O.D. In(mm) | IPS In(mm) | O.D. In(mm) | Length In(mm) |
|-------------|------------------|-------------------------|---------------|---------------|---------------|---------------|
| PUX3834 | 3/8 ID 9.5 | 1/4 6.4 | 3/8 9.5 | - | 1.81 46.0 | 2.17 55.1 |
| PUX1234 | 1/2 ID 12.7 | 3/8 9.5 | 1/2 12.7 | 1/4 6.4 | 1.89 48.0 | 2.17 55.1 |
| PUX5834 | 5/8 ID 15.9 | 1/2 12.7 | 5/8 15.9 | 3/8 9.5 | 2.05 52.1 | 2.17 55.1 |
| PUX3434 | 3/4 ID 19.1 | 5/8 15.9 | 3/4 19.1 | - | 2.22 56.4 | 2.17 55.1 |
| PUX7834 | 7/8 ID 22.2 | 3/4 19.1 | 7/8 22.2 | 1/2 12.7 | 2.44 62.0 | 2.17 55.1 |
| PUX11834 | 1 1/8 ID 28.6 | 1 25.4 | 1 1/8 28.6 | 3/4 19.1 | 2.76 70.1 | 2.17 55.1 |
| PUX13834 | 1 1/4 ID 34.9 | 1 1/4 31.8 | 1 1/4 34.9 | 1 25.4 | 3.19 81.0 | 2.56 65.0 |
| PUX15834 | 1 1/2 ID 41.3 | 1 1/2 38.1 | 1 1/2 41.3 | 1 1/4 31.8 | 3.35 85.1 | 2.58 65.5 |
| PUX21834 | 2 ID 54.0 | 2 50.8 | 2 54.0 | - | 3.86 98.0 | 2.56 65.0 |
| PUX23834 | 2 1/2 ID 60.3 | 2 1/2 57.2 | 2 1/2 60.3 | 2 50.8 | 4.29 109.0 | 2.96 75.2 |
| PUX25834 | 2 3/4 ID 66.7 | 2 3/4 63.5 | 2 3/4 66.7 | - | 4.87 123.7 | 2.96 75.2 |
| PUX31834 | 3 ID 79.4 | 3 76.2 | 3 79.4 | - | 5 127.0 | 3.35 85.1 |
| PUX35834 | 3 1/2 ID 92.1 | 3 1/2 88.9 | 3 1/2 92.1 | - | 5.94 150.9 | 3.94 100.1 |
| PUX41834 | 4 ID 104.8 | 4 101.6 | 4 104.8 | 3 1/2 88.9 | 6.14 156.0 | 3.94 100.1 |

Nominal 1" Wall

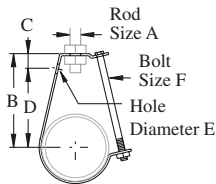
| Part Number | Hole Size In(mm) | Copper Nom. I.D. In(mm) | O.D. In(mm) | IPS In(mm) | O.D. In(mm) | Length In(mm) |
|-------------|------------------|-------------------------|---------------|---------------|---------------|---------------|
| PUX5810 | 5/8 ID 15.9 | 1/2 12.7 | 5/8 15.9 | 3/8 9.5 | 2.54 64.5 | 2.2 55.1 |
| PUX3410 | 3/4 ID 19.1 | 5/8 15.9 | 3/4 19.1 | - | 2.82 71.6 | 2.2 55.1 |
| PUX7810 | 7/8 ID 22.2 | 3/4 19.1 | 7/8 22.2 | 1/2 12.7 | 2.82 71.6 | 2.2 55.1 |
| PUX11810 | 1 1/8 ID 28.6 | 1 25.4 | 1 1/8 28.6 | 3/4 19.1 | 3.06 77.7 | 2.2 55.1 |
| PUX13810 | 1 1/4 ID 34.9 | 1 1/4 31.8 | 1 1/4 34.9 | 1 25.4 | 3.33 84.6 | 2.6 65.0 |
| PUX15810 | 1 1/2 ID 41.3 | 1 1/2 38.1 | 1 1/2 41.3 | 1 1/4 31.8 | 3.65 92.7 | 2.6 65.0 |
| PUX21810 | 2 ID 54.0 | 2 50.8 | 2 54.0 | - | 4.16 105.7 | 2.6 65.0 |
| PUX23810 | 2 1/2 ID 60.3 | 2 1/2 57.2 | 2 1/2 60.3 | 2 50.8 | 3.92 99.6 | 2.6 65.0 |
| PUX25810 | 2 3/4 ID 66.7 | 2 3/4 63.5 | 2 3/4 66.7 | - | 4.87 123.7 | 3.0 75.2 |
| PUX31810 | 3 ID 79.4 | 3 76.2 | 3 79.4 | - | 5.14 130.6 | 3.4 85.1 |
| PUX35810 | 3 1/2 ID 92.1 | 3 1/2 88.9 | 3 1/2 92.1 | - | 6.48 164.6 | 3.9 100.1 |
| PUX41810 | 4 ID 104.8 | 4 101.6 | 4 104.8 | 3 1/2 88.9 | 6.48 164.6 | 3.9 100.1 |

J1205 THRU J1280, J1205 N THRU J1280 N (PLASTIC COATED)

"J" CONDUIT & PIPE HANGER



"T" Bolt and Nut Included



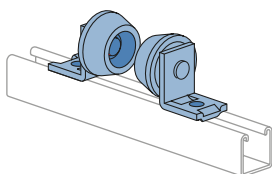
Hanger Rod Suspended

| Part No. | Wt/100 pcs Lbs (kg) | Part No. | Wt/100 pcs Lbs (kg) | Pipe Size In | "A" In (mm) | "B" In (mm) | "C" In (mm) | "D" In (mm) | "E" In (mm) | "F" In (mm) | Load Lbs (kN) |
|----------|------------------------|----------|------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| J1205 | 20 9.1 | J1205N | 21 9.5 | ½ | ¾ | 2½ | 1 | 2 | 1½ | ¼ x 2¼ | 400 1.78 |
| J1207 | 21 9.5 | J1207N | 22 10.0 | ¾ | ¾ | 2¾ | 1 | 2¼ | 1½ | ¼ x 2¼ | 400 1.78 |
| J1210 | 24 10.9 | J1210N* | 25 11.3 | 1 | ¾ | 3 | 1 | 2½ | 1½ | ¼ x 2½ | 400 1.78 |
| J1212 | 27 12.2 | J1212N | 29 13.2 | 1¼ | ¾ | 3¼ | 1 | 2½ | 1½ | ¼ x 2¾ | 400 1.78 |
| J1215 | 29 13.2 | J1215N* | 31 14.1 | 1½ | ¾ | 3½ | 1 | 2½ | 1½ | ¼ x 3 | 400 1.78 |
| J1220 | 33 15.0 | J1220N* | 35 15.9 | 2 | ¾ | 3¾ | 1½ | 2½ | 1½ | ¼ x 3½ | 400 1.78 |
| J1225 | 71 32.2 | J1225N | 74 33.6 | 2½ | ½ | 4¾ | 1½ | 3½ | ¾ | ¾ x 4½ | 800 3.56 |
| J1230 | 78 35.4 | J1230N* | 81 36.7 | 3 | ½ | 4¾ | 1½ | 4 | ¾ | ¾ x 5 | 800 3.56 |
| J1235 | 85 38.6 | J1235N | 88 39.9 | 3½ | ½ | 5½ | 1½ | 4¼ | ¾ | ¾ x 6 | 800 3.56 |
| J1240 | 178 80.7 | J1240N* | 182 82.6 | 4 | ¾ | 6½ | 1½ | 5½ | ¾ | ¾ x 6 | 800 3.56 |
| J1250 | 199 90.3 | J1250N | 203 92.1 | 5 | ¾ | 6¾ | 1½ | 5¾ | ¾ | ¾ x 7½ | 800 3.56 |
| J1260 | 231 104.8 | J1260N* | 236 107.0 | 6 | ¾ | 7¾ | 1½ | 6½ | ¾ | ¾ x 8½ | 1,000 4.45 |
| J1280 | 449 203.7 | J1280N | 458 207.7 | 8 | ¾ | 9¼ | 1½ | 8 | ¾ | ¾ x 10 | 1,200 5.34 |

*Standard glass drainline and glass process pipe sizes. Minimum safety factor of five (5) on ultimate load.

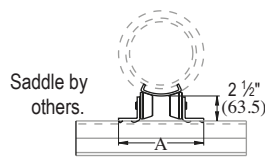
P2474

PIPE ROLLER FOR ½" - 4" PIPE



Sold in pairs.

Requires 2 each ½" x 15/16" bolts and ½" channel nuts per assembly. Sold separately.



Cast iron rollers.

Design Load
500 Lbs (2.22kN)

Wt/100 pcs: 268 Lbs (121.6 kg)

Chart for Dimension A

| Pipe Size In | No Insulation In (mm) | Insulation Thickness | | | | | |
|-----------------|--------------------------|----------------------|----------------|---------------|----------------|---------------|---------------|
| | | 1" In (mm) | 1½" In (mm) | 2" In (mm) | 2½" In (mm) | 3" In (mm) | 4" In (mm) |
| ½ | 6½ | 6½ | - | - | - | - | - |
| | 165.1 | 165.1 | - | - | - | - | - |
| ¾ | 6½ | 6½ | 6¾ | 6¾ | - | - | - |
| | 165.1 | 165.1 | 168.3 | 174.6 | - | - | - |
| 1 | 6½ | 6½ | 6¾ | 6¾ | - | - | - |
| | 165.1 | 165.1 | 168.3 | 174.6 | - | - | - |
| 1¼ | 6½ | 6½ | 6¾ | 7¾ | 7¾ | - | - |
| | 165.1 | 165.1 | 174.6 | 181.0 | 187.3 | - | - |
| 1½ | 6½ | 6½ | 6¾ | 7¾ | 7¾ | - | - |
| | 165.1 | 165.1 | 174.6 | 181.0 | 187.3 | - | - |
| 2 | 6½ | 6¾ | 7¾ | 7¾ | 7½ | 8 | - |
| | 165.1 | 168.3 | 181.0 | 187.3 | 190.5 | 203.2 | - |
| 2½ | 6½ | 6¾ | 7¾ | 7¾ | 7½ | 8 | - |
| | 165.1 | 168.3 | 181.0 | 187.3 | 190.5 | 203.2 | - |
| 3 | 6½ | 7 | 7½ | 7¾ | 7¾ | 8½ | - |
| | 165.1 | 177.8 | 190.5 | 196.9 | 200.0 | 206.4 | - |
| 3½ | 6½ | 7 | 7½ | 7¾ | 7¾ | 8½ | - |
| | 165.1 | 177.8 | 190.5 | 196.9 | 200.0 | 206.4 | - |
| 4 | 6¾ | 7¼ | 7¾ | 7¾ | 8 | 8¾ | 9 |
| | 168.3 | 184.2 | 193.7 | 200.0 | 203.2 | 212.7 | 228.6 |



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

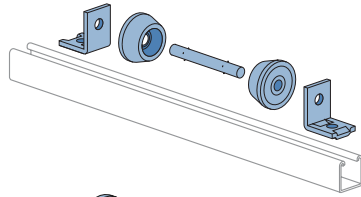
Concrete Inserts

Solar

Unipier®

P2474-1 THRU P2474-4

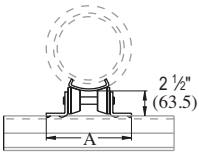
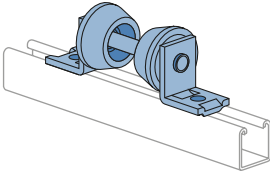
PIPE ROLLER FOR 1" - 8" PIPE EG GR



Parts are shipped loose and are easily assembled during installation.

Design Load
750 Lbs (3.34 kN)

| Part Number | A In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-----------------|------------------------|
| P2474-1 | 6 3/4 171.5 | 299 135.6 |
| P2474-2 | 7 1/2 190.5 | 304 137.9 |
| P2474-3 | 8 1/2 215.9 | 311 141.1 |
| P2474-4 | 9 9/16 242.9 | 319 144.7 |



Saddle by others.

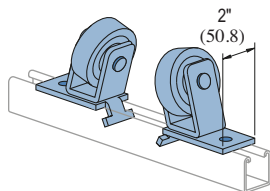
- Pipe roller will fit standard saddles.
- Select proper roller from chart.
- Requires 2 each 1/2" x 1 5/16" bolts and 1/2" channel nuts per assembly. Sold separately.

Chart for Roller Part Number Selection

| Pipe Size In | No Insulation | Insulation Thickness | | | | | |
|-----------------|------------------|----------------------|---------------|-----------|---------------|-----------|------------|
| | | 1" (25.4) | 1 1/2" (38.1) | 2" (50.8) | 2 1/2" (63.5) | 3" (76.2) | 4" (101.6) |
| 1/2 | P2474-1 | P2474-1 | P2474-1 | P2474-2 | - | - | - |
| 3/4 | P2474-1 | P2474-1 | P2474-1 | P2474-2 | - | - | - |
| 1 | P2474-1 | P2474-1 | P2474-1 | P2474-2 | - | - | - |
| 1 1/4 | P2474-1 | P2474-1 | P2474-1 | P2474-2 | - | - | - |
| 1 1/2 | P2474-1 | P2474-1 | P2474-2 | P2474-2 | P2474-2 | - | - |
| 2 | P2474-1 | P2474-1 | P2474-2 | P2474-2 | P2474-2 | - | - |
| 2 1/2 | P2474-1 | P2474-1 | P2474-2 | P2474-2 | P2474-2 | - | - |
| 3 | P2474-1 | P2474-2 | P2474-2 | P2474-3 | P2474-3 | P2474-3 | - |
| 3 1/2 | P2474-1 | P2474-2 | P2474-2 | P2474-3 | P2474-3 | P2474-3 | - |
| 4 | P2474-1 | P2474-2 | P2474-2 | P2474-3 | P2474-3 | P2474-3 | - |
| 5 | P2474-2 | P2474-3 | P2474-3 | P2474-3 | P2474-3 | P2474-4 | P2474-4 |
| 6 | P2474-2 | P2474-3 | P2474-3 | P2474-3 | P2474-3 | P2474-4 | P2474-4 |
| 8 | P2474-2 | P2474-3 | P2474-4 | P2474-4 | P2474-4 | P2474-4 | P2474-4 |

P2475

PIPE ROLLER FOR 6" - 16" PIPE EG GR



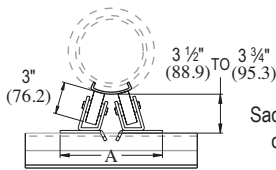
Material: Cast iron rollers.
• Requires 2 each 1/2" x 1 5/16" bolts and 1/2" channel nuts per assembly. Sold separately.

Chart for Dimension A

| Pipe Size In | No Insulation In (mm) | Insulation Thickness | | | | | |
|-----------------|-----------------------------|----------------------|-------------------|---------------|-------------------|---------------|---------------|
| | | 1" In (mm) | 1 1/2" In (mm) | 2" In (mm) | 2 1/2" In (mm) | 3" In (mm) | 4" In (mm) |
| 6 | 9 1/2 | 10 1/4 | 10 1/2 | 10 3/4 | 11 | 11 3/8 | 11 7/8 |
| | 241.3 | 260.4 | 266.7 | 273 | 279.4 | 288.9 | 301.6 |
| 8 | 10 1/8 | * | 11 | 11 3/8 | 11 3/4 | 12 | 12 1/2 |
| | 257.2 | | 279.4 | 288.9 | 298.5 | 304.8 | 317.5 |
| 10 | 10 3/4 | * | 11 1/8 | 12 | 12 1/4 | 12 1/2 | 13 |
| | 273.1 | | 295.3 | 304.8 | 311.2 | 317.5 | 330.2 |
| 12 | 11 1/4 | * | 12 1/8 | 12 1/2 | 12 3/4 | 13 | 13 1/2 |
| | 285.8 | | 308.0 | 317.5 | 323.9 | 330.2 | 342.9 |
| 14 | 11 5/8 | * | 12 3/8 | 12 3/4 | 13 | 13 3/8 | 14 |
| | 295.3 | | 317.5 | 327.0 | 330.2 | 339.7 | 355.6 |
| 16 | 12 1/8 | * | 13 | 13 3/8 | 13 3/4 | 14 | 14 1/2 |
| | 308.0 | | 330.2 | 339.7 | 352.4 | 355.6 | 368.3 |

(*Not used for this size)

Sold in pairs.



Saddle by others.

Design Load
1500 Lbs (6.67 kN)

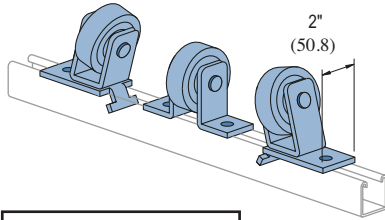
Wt/100 pcs: 680 Lbs (308.4 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 9/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm)

P2476

PIPE ROLLER FOR 16" - 24" PIPE



• Requires 4 each 1/2" x 1/16" bolts and 1/2" channel nuts per assembly. Sold separately.

Design Load
2000 Lbs (8.90 kN)

Material: Cast iron rollers.

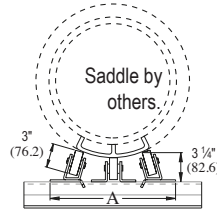


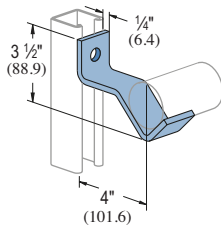
Chart for Dimension A

| Pipe Size In | Insulation Thickness | | | | |
|--------------|----------------------|------------|----------------|------------|------------|
| | 1 1/2" In (mm) | 2" In (mm) | 2 1/2" In (mm) | 3" In (mm) | 4" In (mm) |
| 16 | - | - | 13 3/8 | 14 | 14 1/2 |
| | - | - | 352.4 | 355.6 | 368.3 |
| 18 | 13 3/8 | 14 | 14 1/8 | 14 1/2 | 15 |
| | 346.1 | 355.6 | 358.8 | 368.3 | 381.0 |
| 20 | 14 1/8 | 14 1/2 | 14 3/4 | 15 | 15 1/2 |
| | 358.8 | 368.3 | 374.7 | 381.0 | 393.7 |
| 24 | 15 1/4 | 15 1/2 | 15 3/4 | 16 1/8 | 16 3/4 |
| | 387.4 | 393.7 | 403.2 | 409.6 | 422.3 |

Wt/100 pcs: 1046 Lbs (474.5 kg)

P2481

PIPE SUPPORT BRACKET

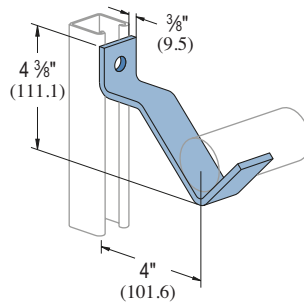


For 1/2" pipe to 1 1/2" pipe.

| Wt/100 pcs Lbs (kg) | Design Load (Upright Channel) | | |
|------------------------|-------------------------------|-------------------|-------------------|
| | P1000 Lbs (kN) | P1100 Lbs (kN) | P2000 Lbs (kN) |
| 90 40.8 | 85 0.38 | 85 0.38 | 85 0.38 |

P2482

PIPE SUPPORT BRACKET

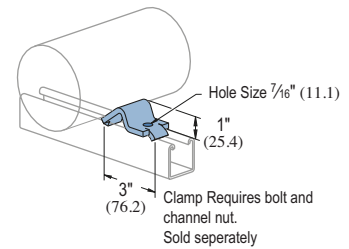


For 2" pipe to 3" pipe.

| Wt/100 pcs Lbs (kg) | Design Load (Upright Channel) | | |
|------------------------|-------------------------------|-------------------|-------------------|
| | P1000 Lbs (kN) | P1100 Lbs (kN) | P2000 Lbs (kN) |
| 139 63.0 | 185 0.82 | 120 0.53 | 95 0.42 |

P2243

PIPE BLOCK



For 2" (50.8) to 8" (203.2) Pipes

Wt/100 pcs: 40 Lbs (18.1 kg)

Standard Dimensions for 1 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm)



| Nominal Pipe Dia. | Centerline to Centerline (In/mm) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------------------|-----|-----|-------------|-----|-----|--------------|-----|-----|--------------|-----|-----|-------------|-----|-----|--------------|-----|-----|
| | ¾" (19.1mm) | | | 1" (25.4mm) | | | 1¼" (31.8mm) | | | 1½" (38.1mm) | | | 2" (50.8mm) | | | 2½" (63.5mm) | | |
| | T | S | | T | F | S | T | F | S | T | F | S | T | F | S | T | F | S |
| ¾" 19.1mm | T | 4¾ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | S | 4½ | 4¾ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1" 25.4mm | T | 5 | 4¾ | 5½ | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | F | 6 | 5¾ | 6¼ | 7¼ | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | S | 4¾ | 4½ | 5 | 6 | 4½ | - | - | - | - | - | - | - | - | - | - | - | - |
| 1¼" 31.8mm | T | 5¼ | 5 | 5½ | 6½ | 5 | 5½ | - | - | - | - | - | - | - | - | - | - | - |
| | F | 6¼ | 6 | 6½ | 7½ | 6¼ | 6¾ | 7¼ | - | - | - | - | - | - | - | - | - | - |
| | S | 4¾ | 4½ | 5 | 6 | 4½ | 5¼ | 6¼ | 4¾ | - | - | - | - | - | - | - | - | - |
| 1½" 38.1mm | T | 5¼ | 5 | 5½ | 6½ | 5¼ | 5¾ | 6¼ | 5¼ | 5¼ | - | - | - | - | - | - | - | - |
| | F | 6½ | 6¼ | 6¾ | 7¾ | 6¼ | 6¾ | 8 | 6½ | 7 | 8 | - | - | - | - | - | - | - |
| | S | 5 | 4¾ | 5¼ | 6¼ | 4¾ | 5¼ | 6 | 5 | 5½ | 6½ | 5 | - | - | - | - | - | - |
| 2" 50.8mm | T | 5¾ | 5½ | 6 | 7 | 5½ | 6 | 7¼ | 5¾ | 6¼ | 7¼ | 5¾ | 6½ | - | - | - | - | - |
| | F | 7 | 6¾ | 7¼ | 8¼ | 6¾ | 7¼ | 8½ | 7 | 7½ | 8½ | 7 | 7¼ | 9 | - | - | - | - |
| | S | 5¼ | 5 | 5½ | 6½ | 5 | 5½ | 6¼ | 5¼ | 5¼ | 6¼ | 5¼ | 6 | 7¼ | 5½ | - | - | - |
| 2½" 63.5mm | T | 6 | 5¾ | 6¼ | 7¼ | 6 | 6½ | 7½ | 6 | 6½ | 7¼ | 6¼ | 7 | 8¼ | 6½ | 7¼ | - | - |
| | F | 7½ | 7¼ | 7¾ | 8¾ | 7¼ | 7¾ | 9 | 7½ | 8 | 9 | 7½ | 8¼ | 9½ | 7¾ | 8¾ | 10 | - |
| | S | 5½ | 5¼ | 5¾ | 6¾ | 5¼ | 5¾ | 7 | 5½ | 6 | 7 | 5½ | 6¼ | 7½ | 5¼ | 6¾ | 8 | 6 |
| 3" 76.2mm | T | 6¼ | 6 | 6½ | 7½ | 6¼ | 6¾ | 7¾ | 6¼ | 6¾ | 8 | 6½ | 7¼ | 8½ | 6¾ | 7½ | 9 | 7 |
| | F | 7¾ | 7½ | 8 | 9 | 7½ | 8 | 9¼ | 7¾ | 8¼ | 9¼ | 7¾ | 8½ | 9¾ | 8 | 9 | 10¼ | 8¼ |
| | S | 5¾ | 5½ | 6 | 7 | 5½ | 6 | 7¼ | 5¾ | 6¼ | 7¼ | 5¾ | 6½ | 7¾ | 6 | 7 | 8¼ | 6¼ |
| 4" 101.6mm | T | 7½ | 7¼ | 7¾ | 8¾ | 7¼ | 7¾ | 9 | 7½ | 8 | 9 | 7½ | 8¼ | 9½ | 7¾ | 8¾ | 10 | 8 |
| | F | 9 | 8¾ | 9¼ | 10¼ | 8¾ | 9¼ | 10½ | 9 | 9½ | 10½ | 9 | 9¾ | 11 | 9¼ | 10¼ | 11½ | 9½ |
| | S | 6¾ | 6½ | 7 | 8 | 6½ | 7 | 8¼ | 6¾ | 7¼ | 8¼ | 6¾ | 7½ | 8¾ | 7 | 8 | 9¼ | 7¼ |
| 5" 127.0mm | T | 8 | 7¾ | 8¼ | 9¼ | 7¾ | 8¼ | 9½ | 8 | 8½ | 9½ | 8 | 8¾ | 10 | 8¼ | 9¼ | 10½ | 8½ |
| | F | 9½ | 9¼ | 9¾ | 10¾ | 9¾ | 9¾ | 11 | 9½ | 10 | 11 | 9½ | 10¼ | 11½ | 9¾ | 10¾ | 12 | 10 |
| | S | 7¼ | 7 | 7½ | 8¼ | 7 | 7½ | 8¾ | 7¼ | 7¾ | 8¾ | 7¼ | 8 | 9¼ | 7½ | 8½ | 9¾ | 7¾ |
| 6" 152.4mm | T | 8¾ | 8½ | 9 | 10 | 8½ | 9 | 10¼ | 8¾ | 9¼ | 10¼ | 8¾ | 9½ | 10¾ | 9 | 10 | 11¼ | 9¼ |
| | F | 10 | 9¾ | 10¼ | 11¼ | 9¾ | 10¼ | 11½ | 10 | 10½ | 11½ | 10 | 10¾ | 12 | 10¼ | 11¼ | 12½ | 10½ |
| | S | 7¾ | 7½ | 8 | 9 | 7½ | 8 | 9¼ | 7¾ | 8¼ | 9¼ | 7¾ | 8½ | 9¾ | 8 | 9 | 10¼ | 8¼ |
| 8" 203.2mm | T | 8¾ | 9½ | 10 | 11 | 9¾ | 10½ | 11¼ | 9¾ | 10¼ | 11½ | 10 | 10¾ | 12 | 10½ | 11 | 12½ | 10½ |
| | F | 11¼ | 11 | 11½ | 12½ | 11 | 11½ | 12¾ | 11¼ | 11¼ | 12¾ | 11¼ | 12 | 13¼ | 11½ | 12½ | 13¾ | 11¾ |
| 10" 254.0mm | T | 11¼ | 11 | 11½ | 12½ | 11 | 11½ | 12¾ | 11¼ | 11¼ | 12¾ | 11¼ | 12 | 13¼ | 11½ | 12½ | 13¾ | 11¾ |
| | F | 12½ | 12¼ | 12¾ | 13¾ | 12¼ | 12¾ | 14 | 12½ | 13 | 14 | 12½ | 13¼ | 14½ | 12¾ | 13¾ | 15 | 13 |
| 12" 304.8mm | T | 12¾ | 12 | 12½ | 13½ | 12 | 12½ | 13¾ | 12¼ | 12¾ | 13¾ | 12¼ | 13 | 14¼ | 12½ | 13½ | 14¾ | 12¾ |
| | F | 14 | 13¾ | 14¼ | 15¼ | 13¾ | 14¼ | 15½ | 14 | 14½ | 15½ | 14 | 14¾ | 16 | 14¼ | 15¼ | 16½ | 14½ |

PIPE SPACING TABLE

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.

T – denotes threaded IPS pipe. F – denotes flanged fittings on pipe. S – denotes soldered or brazed tubing.

| 3" (76.2mm) | | 4" (101.6mm) | | | 5" (127.0mm) | | | 6" (152.4mm) | | | 8" (203.2mm) | | | 10" (254.0mm) | | | 12" (304.8mm) | | | Nominal Pipe Dia. | | |
|-------------|--------|--------------|--------|--------|--------------|--------|--------|--------------|--------|--------|--------------|--------|--------|---------------|--------|--------|---------------|---|---|-------------------|--------------|----------------|
| | | | | | | | | | | | | | | | | | | | | | T | F |
| 7 3/4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | T | 3" 76.2mm | |
| 196.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | F |
| 9 1/4 | 10 1/2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | S |
| 235.0 | 266.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | T | 4" 101.6mm |
| 7 1/4 | 8 1/2 | 6 1/2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 184.2 | 215.9 | 165.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9 | 10 1/4 | 8 1/4 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5" 127.0mm |
| 228.6 | 260.4 | 209.6 | 254.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10 1/2 | 11 3/4 | 9 3/4 | 11 1/2 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 266.7 | 298.5 | 247.7 | 292.1 | 330.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8 1/4 | 9 1/2 | 7 1/2 | 9 1/4 | 10 3/4 | 8 1/2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6" 152.4mm |
| 209.6 | 241.3 | 190.5 | 235.0 | 273.1 | 215.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9 1/2 | 10 3/4 | 8 3/4 | 10 1/4 | 12 | 9 3/4 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 241.3 | 273.1 | 222.3 | 260.4 | 304.8 | 247.7 | 279.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11 | 12 1/4 | 10 1/4 | 12 | 13 1/2 | 11 1/4 | 12 1/2 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8" 203.2mm |
| 279.4 | 311.2 | 260.4 | 304.8 | 342.9 | 285.8 | 317.5 | 355.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8 3/4 | 10 | 8 | 9 3/4 | 11 1/4 | 9 | 10 1/4 | 11 1/4 | 9 1/2 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 222.3 | 254.0 | 203.2 | 247.7 | 285.8 | 228.6 | 260.4 | 298.5 | 241.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10 1/4 | 11 1/2 | 9 1/2 | 11 1/4 | 12 3/4 | 10 1/2 | 11 3/4 | 13 3/4 | 11 | 12 1/2 | - | - | - | - | - | - | - | - | - | - | - | - | 10" 254.0mm |
| 260.4 | 292.1 | 241.3 | 285.8 | 323.9 | 266.7 | 298.5 | 336.6 | 279.4 | 317.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 11 1/2 | 12 1/4 | 10 3/4 | 12 1/2 | 14 | 11 1/4 | 13 | 14 1/2 | 12 1/4 | 13 3/4 | 15 | - | - | - | - | - | - | - | - | - | - | - | |
| 292.1 | 311.2 | 273.1 | 317.5 | 355.6 | 298.5 | 330.2 | 368.3 | 311.2 | 336.6 | 381.0 | - | - | - | - | - | - | - | - | - | - | - | |
| 9 1/4 | 10 1/2 | 8 1/2 | 10 1/4 | 11 3/4 | 9 1/2 | 10 3/4 | 12 1/4 | 10 | 11 1/2 | 12 3/4 | 10 1/2 | - | - | - | - | - | - | - | - | - | - | 12" 304.8mm |
| 235.0 | 266.7 | 215.9 | 260.4 | 298.5 | 241.3 | 273.1 | 311.2 | 254.0 | 292.1 | 323.9 | 266.7 | - | - | - | - | - | - | - | - | - | - | |
| 11 1/4 | 12 3/4 | 10 3/4 | 12 1/2 | 14 | 11 3/4 | 13 | 14 1/2 | 12 1/4 | 13 3/4 | 15 | 12 3/4 | 14 3/4 | - | - | - | - | - | - | - | - | - | |
| 285.8 | 323.9 | 273.1 | 317.5 | 355.6 | 298.5 | 330.2 | 368.3 | 311.2 | 349.3 | 381.0 | 323.9 | 374.7 | - | - | - | - | - | - | - | - | - | |
| 12 3/4 | 14 | 12 | 13 3/4 | 15 1/4 | 13 | 14 1/4 | 15 3/4 | 13 1/2 | 15 | 16 1/4 | 14 | 16 1/4 | 17.5 | - | - | - | - | - | - | - | - | 10" 254.0mm |
| 323.9 | 355.6 | 304.8 | 349.3 | 387.4 | 330.2 | 362.0 | 400.1 | 342.9 | 381.0 | 412.8 | 355.6 | 412.8 | 17.5 | - | - | - | - | - | - | - | - | |
| 12 3/4 | 14 | 12 | 13 3/4 | 15 1/4 | 13 | 14 1/4 | 15 3/4 | 13 1/2 | 15 | 16 1/4 | 14 | 16 1/4 | 17 1/2 | 17 1/2 | - | - | - | - | - | - | - | |
| 323.9 | 355.6 | 304.8 | 349.3 | 387.4 | 330.2 | 362.0 | 400.1 | 342.9 | 381.0 | 412.8 | 355.6 | 412.8 | 444.5 | 444.5 | - | - | - | - | - | - | - | |
| 14 | 15 1/4 | 13 1/4 | 15 | 16 1/2 | 14 1/4 | 15 1/2 | 17 | 14 3/4 | 16 1/4 | 17 1/2 | 15 1/4 | 17 1/2 | 18 3/4 | 18 3/4 | 20 | - | - | - | - | - | - | 12" 304.8mm |
| 355.6 | 387.4 | 336.6 | 381.0 | 419.1 | 362.0 | 393.7 | 431.8 | 374.7 | 412.8 | 444.5 | 387.4 | 444.5 | 476.3 | 476.3 | 508.0 | - | - | - | - | - | - | |
| 13 3/4 | 15 | 13 | 14 3/4 | 16 1/4 | 14 | 15 1/4 | 16 3/4 | 14 1/2 | 16 | 17 1/4 | 15 | 17 1/4 | 18 1/2 | 18 1/2 | 19 3/4 | 19 1/2 | - | - | - | - | - | |
| 349.3 | 381.0 | 330.2 | 374.7 | 412.8 | 355.6 | 387.4 | 425.5 | 368.3 | 406.4 | 438.2 | 381.0 | 438.2 | 469.9 | 469.9 | 501.7 | 495.3 | - | - | - | - | - | |
| 15 1/2 | 16 3/4 | 14 3/4 | 16 1/2 | 18 | 15 3/4 | 17 | 18 1/4 | 16 1/4 | 17 3/4 | 19 | 16 3/4 | 14 | 20 1/4 | 20 1/4 | 21 1/2 | 21 1/4 | 29 | - | - | - | - | |
| 393.7 | 425.5 | 374.7 | 419.1 | 457.2 | 400.1 | 431.8 | 463.6 | 412.8 | 450.9 | 482.6 | 425.5 | 355.6 | 514.4 | 514.4 | 546.1 | 539.8 | 736.6 | - | - | - | - | |



CHANNEL SELECTION FOR SCHEDULE 10 SPRINKLER PIPE TRAPEZE HANGERS

Note: Based on NFPA-13-2013-Table 9.1.1.7.1(a). Each of the following tables indicate the allowable span of the trapeze and the nominal pipe size for the specified channel. An entry of "N/A" indicates that the channel cannot be used for this span/pipe size combination. The table is based on a maximum allowable bending stress of 15 KSI and a midspan concentrated load from 15 ft of water-filled pipe, plus 250 lb.

| Unistrut Channel | Section Modulus in ³ (cm ³) |
|------------------|--|
| P3000 | 0.154 2.52 |
| P1000 | 0.202 3.31 |
| P5500 | 0.391 6.41 |
| P5000 | 0.628 10.29 |

| Unistrut Channel | Section Modulus in ³ (cm ³) |
|------------------|--|
| P3001 | 0.431 7.06 |
| P1001 | 0.572 9.37 |
| P5501 | 1.153 18.89 |
| P5001 | 1.916 31.40 |

| Nominal Pipe Dia. (in) | Schedule 10 Pipe | | I. D. (in) | Pipe Weight (p/f) | Water Weight (p/f) | Total Weight (p/f) |
|------------------------|------------------|---------------------|------------|-------------------|--------------------|--------------------|
| | O.D. (in) | Wall Thickness (in) | | | | |
| 1 | 1.315 | 0.109 | 1.097 | 1.41 | 0.42 | 1.83 |
| 1¼ | 1.660 | 0.109 | 1.442 | 1.81 | 0.73 | 2.54 |
| 1½ | 1.900 | 0.109 | 1.682 | 2.09 | 0.99 | 3.08 |
| 2 | 2.375 | 0.109 | 2.157 | 2.64 | 1.63 | 4.28 |
| 2½ | 2.875 | 0.120 | 2.635 | 3.53 | 2.44 | 5.97 |
| 3 | 3.500 | 0.120 | 3.260 | 4.34 | 3.73 | 8.07 |
| 3½ | 4.000 | 0.120 | 3.760 | 4.98 | 4.97 | 9.95 |
| 4 | 4.500 | 0.120 | 4.260 | 5.62 | 6.38 | 12.00 |
| 5 | 5.563 | 0.134 | 5.295 | 7.78 | 9.85 | 17.63 |
| 6 | 6.625 | 0.134 | 6.357 | 9.30 | 14.20 | 23.50 |
| 8 | 8.625 | 0.188 | 8.249 | 16.96 | 23.91 | 40.87 |
| 10 | 10.750 | 0.188 | 10.374 | 21.23 | 37.82 | 59.04 |

| Trapeze Span | NFPA 13 Required Trapeze Section Modulus for Sch 10 Pipe | | | | | | | | | | | |
|--------------|--|------|------|------|------|------|------|------|------|------|------|------|
| | Pipe Diameter | | | | | | | | | | | |
| | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 3½" | 4" | 5" | 6" | 8" | 10" |
| 1' - 6" | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.15 | 0.18 | 0.26 | 0.34 |
| 2' - 0" | 0.11 | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.2 | 0.24 | 0.34 | 0.45 |
| 2' - 6" | 0.14 | 0.14 | 0.15 | 0.16 | 0.18 | 0.21 | 0.23 | 0.25 | 0.3 | 0.36 | 0.5 | 0.69 |
| 3' - 0" | 0.16 | 0.17 | 0.18 | 0.19 | 0.2 | 0.22 | 0.24 | 0.26 | 0.31 | 0.36 | 0.51 | 0.67 |
| 4' - 0" | 0.22 | 0.22 | 0.24 | 0.25 | 0.27 | 0.30 | 0.32 | 0.34 | 0.41 | 0.48 | 0.68 | 0.89 |
| 5' - 0" | 0.27 | 0.28 | 0.3 | 0.31 | 0.34 | 0.37 | 0.40 | 0.43 | 0.51 | 0.60 | 0.85 | 1.12 |
| 6' - 0" | 0.33 | 0.34 | 0.35 | 0.38 | 0.41 | 0.44 | 0.48 | 0.51 | 0.61 | 0.71 | 1.02 | 1.34 |
| 7' - 0" | 0.38 | 0.39 | 0.41 | 0.44 | 0.47 | 0.52 | 0.56 | 0.6 | 0.71 | 0.83 | 1.19 | 1.56 |
| 8' - 0" | 0.43 | 0.45 | 0.47 | 0.5 | 0.54 | 0.59 | 0.63 | 0.68 | 0.82 | 0.95 | 1.36 | 1.79 |
| 9' - 0" | 0.49 | 0.50 | 0.53 | 0.56 | 0.61 | 0.66 | 0.71 | 0.77 | 0.92 | 1.07 | 1.53 | 2.01 |
| 10' - 0" | 0.54 | 0.56 | 0.59 | 0.63 | 0.68 | 0.74 | 0.79 | 0.85 | 1.02 | 1.19 | 1.7 | 2.23 |

Values taken from NFPA 13 (2013 Edition), Table 9.1.1.7.1(a)

| Trapeze Span | Single Channel Trapeze for Sch 10 Pipe | | | | | | | | | | | |
|--------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Pipe Diameter | | | | | | | | | | | |
| | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 3½" | 4" | 5" | 6" | 8" | 10" |
| 1' - 6" | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P1000 | P5500 | P5500 |
| 2' - 0" | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P1000 | P1000 | P1000 | P5500 | P5500 | P5000 |
| 2' - 6" | P3000 | P3000 | P3000 | P1000 | P1000 | P5500 | P5500 | P5500 | P5500 | P5500 | P5000 | N/A |
| 3' - 0" | P1000 | P1000 | P1000 | P1000 | P1000 | P5500 | P5500 | P5500 | P5500 | P5500 | P5000 | N/A |
| 4' - 0" | P5500 | P5500 | P5500 | P5500 | P5500 | P5500 | P5500 | P5500 | P5000 | P5000 | N/A | N/A |
| 5' - 0" | P5500 | P5500 | P5500 | P5500 | P5500 | P5500 | P5000 | P5000 | P5000 | P5000 | N/A | N/A |
| 6' - 0" | P5500 | P5500 | P5500 | P5500 | P5000 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A |
| 7' - 0" | P5500 | P5500 | P5000 | P5000 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A |
| 8' - 0" | P5000 | P5000 | P5000 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A | N/A |
| 9' - 0" | P5000 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10' - 0" | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| Trapeze Span | Double Channel Trapeze for Sch 10 Pipe | | | | | | | | | | | |
|--------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Pipe Diameter | | | | | | | | | | | |
| | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 3½" | 4" | 5" | 6" | 8" | 10" |
| 1' - 6" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 |
| 2' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 |
| 2' - 6" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 | P5501 |
| 3' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 | P5501 |
| 4' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 | P5501 | P5501 |
| 5' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 | P5501 | P5501 | P5501 |
| 6' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5001 |
| 7' - 0" | P3001 | P3001 | P3001 | P1001 | P1001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5001 | P5001 |
| 8' - 0" | P3001 | P1001 | P1001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5501 | P5501 | P5001 | P5001 |
| 9' - 0" | P1001 | P1001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5501 | P5501 | P5501 | P5001 | N/A |
| 10' - 0" | P1001 | P1001 | P5501 | P5501 | P5501 | P5501 | P5501 | P5501 | P5501 | P5501 | P5001 | N/A |

CHANNEL SELECTION FOR SCHEDULE 40 SPRINKLER PIPE TRAPEZE HANGERS

Note: Based on NFPA-13-2013-Table 9.1.1.7.1(a). Each of the following tables indicate the allowable span of the trapeze and the nominal pipe size for the specified channel. An entry of "N/A" indicates that the channel cannot be used for this span/pipe size combination. The table is based on a maximum allowable bending stress of 15 KSI and a midspan concentrated load from 15 ft of water-filled pipe, plus 250 lb.

| Unistrut Channel | Section Modulus in ³ (cm ³) |
|------------------|--|
| P3000 | 0.154 2.52 |
| P1000 | 0.202 3.31 |
| P5500 | 0.391 6.41 |
| P5000 | 0.628 10.29 |

| Unistrut Channel | Section Modulus in ³ (cm ³) |
|------------------|--|
| P3001 | 0.431 7.06 |
| P1001 | 0.572 9.37 |
| P5501 | 1.153 18.89 |
| P5001 | 1.916 31.40 |

| Nominal Pipe Dia. (in) | Schedule 40 Pipe | | | Pipe Weight (p/f) | Water Weight (p/f) | Total Weight (p/f) |
|------------------------|------------------|---------------------|------------|-------------------|--------------------|--------------------|
| | O.D. (in) | Wall Thickness (in) | I. D. (in) | | | |
| 1 | 1.315 | 0.133 | 1.049 | 1.68 | 0.39 | 2.07 |
| 1¼ | 1.660 | 0.140 | 1.380 | 2.27 | 0.67 | 2.94 |
| 1½ | 1.900 | 0.145 | 1.610 | 2.72 | 0.91 | 3.63 |
| 2 | 2.375 | 0.154 | 2.067 | 3.66 | 1.50 | 5.16 |
| 2½ | 2.875 | 0.203 | 2.469 | 5.80 | 2.14 | 7.94 |
| 3 | 3.500 | 0.216 | 3.068 | 7.58 | 3.31 | 10.89 |
| 3½ | 4.000 | 0.226 | 3.548 | 9.12 | 4.42 | 13.54 |
| 4 | 4.500 | 0.237 | 4.026 | 10.80 | 5.70 | 16.50 |
| 5 | 5.563 | 0.258 | 5.047 | 14.63 | 8.95 | 23.58 |
| 6 | 6.625 | 0.280 | 6.065 | 18.99 | 12.93 | 31.92 |
| 8 | 8.625 | 0.322 | 7.981 | 28.58 | 22.38 | 50.96 |
| 10 | 10.750 | 0.365 | 10.020 | 40.52 | 35.28 | 75.80 |

| Trapeze Span | NFPA 13 Required Trapeze Section Modulus for Sch 40 Pipe | | | | | | | | | | | |
|--------------|--|------|------|------|------|------|------|------|------|------|------|------|
| | Pipe Diameter | | | | | | | | | | | |
| | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 3½" | 4" | 5" | 6" | 8" | 10" |
| 1' - 6" | 0.08 | 0.09 | 0.09 | 0.1 | 0.11 | 0.12 | 0.14 | 0.15 | 0.18 | 0.22 | 0.3 | 0.41 |
| 2' - 0" | 0.11 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.18 | 0.2 | 0.24 | 0.29 | 0.4 | 0.55 |
| 2' - 6" | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.2 | 0.21 | 0.25 | 0.3 | 0.43 | 0.56 |
| 3' - 0" | 0.16 | 0.17 | 0.18 | 0.2 | 0.22 | 0.25 | 0.27 | 0.3 | 0.36 | 0.43 | 0.6 | 0.82 |
| 4' - 0" | 0.22 | 0.23 | 0.24 | 0.26 | 0.29 | 0.33 | 0.36 | 0.4 | 0.48 | 0.58 | 0.8 | 1.1 |
| 5' - 0" | 0.27 | 0.29 | 0.3 | 0.33 | 0.37 | 0.41 | 0.45 | 0.49 | 0.6 | 0.72 | 1 | 1.37 |
| 6' - 0" | 0.33 | 0.34 | 0.36 | 0.39 | 0.44 | 0.49 | 0.54 | 0.59 | 0.72 | 0.87 | 1.2 | 1.64 |
| 7' - 0" | 0.38 | 0.4 | 0.43 | 0.46 | 0.52 | 0.58 | 0.63 | 0.69 | 0.84 | 1.01 | 1.41 | 1.92 |
| 8' - 0" | 0.44 | 0.46 | 0.49 | 0.52 | 0.59 | 0.66 | 0.72 | 0.79 | 0.96 | 1.16 | 1.61 | 2.19 |
| 9' - 0" | 0.49 | 0.51 | 0.55 | 0.59 | 0.66 | 0.74 | 0.81 | 0.89 | 1.08 | 1.3 | 1.81 | 2.47 |
| 10' - 0" | 0.55 | 0.57 | 0.61 | 0.65 | 0.74 | 0.82 | 0.9 | 0.99 | 1.2 | 1.45 | 2.01 | 2.74 |

Values taken from NFPA 13 (2013 Edition), Table 9.1.1.7.1(a)

| Trapeze Span | Single Channel Trapeze for Sch 40 Pipe | | | | | | | | | | | |
|--------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Pipe Diameter | | | | | | | | | | | |
| | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 3½" | 4" | 5" | 6" | 8" | 10" |
| 1' - 6" | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P3000 | P1000 | P5500 | P5500 | P5000 |
| 2' - 0" | P3000 | P3000 | P3000 | P3000 | P3000 | P1000 | P1000 | P1000 | P5500 | P5500 | P5000 | P5000 |
| 2' - 6" | P3000 | P3000 | P3000 | P1000 | P1000 | P1000 | P1000 | P1000 | P5500 | P5500 | P5000 | P5000 |
| 3' - 0" | P1000 | P1000 | P1000 | P1000 | P5500 | P5500 | P5500 | P5500 | P5500 | P5000 | P5000 | N/A |
| 4' - 0" | P5500 | P5500 | P5500 | P5500 | P5500 | P5500 | P5000 | P5000 | P5000 | P5000 | N/A | N/A |
| 5' - 0" | P5500 | P5500 | P5500 | P5500 | P5500 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A |
| 6' - 0" | P5500 | P5500 | P5500 | P5500 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A |
| 7' - 0" | P5500 | P5000 | P5000 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A | N/A |
| 8' - 0" | P5000 | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 9' - 0" | P5000 | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10' - 0" | P5000 | P5000 | P5000 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| Trapeze Span | Double Channel Trapeze for Sch 40 Pipe | | | | | | | | | | | |
|--------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Pipe Diameter | | | | | | | | | | | |
| | 1" | 1¼" | 1½" | 2" | 2½" | 3" | 3½" | 4" | 5" | 6" | 8" | 10" |
| 1' - 6" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 |
| 2' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 |
| 2' - 6" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 |
| 3' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P5501 | P5501 |
| 4' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 | P5501 | P5501 | P5501 |
| 5' - 0" | P3001 | P3001 | P3001 | P3001 | P3001 | P3001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5001 |
| 6' - 0" | P3001 | P3001 | P3001 | P3001 | P1001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5001 | P5001 |
| 7' - 0" | P3001 | P3001 | P3001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5501 | P5501 | P5001 | P5001 |
| 8' - 0" | P1001 | P1001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5501 | P5501 | P5001 | P5001 | N/A |
| 9' - 0" | P1001 | P1001 | P1001 | P5501 | P5501 | P5501 | P5501 | P5501 | P5501 | P5001 | P5001 | N/A |
| 10' - 0" | P1001 | P1001 | P5501 | P5501 | P5501 | P5501 | P5501 | P5501 | P5001 | P5001 | N/A | N/A |



ELECTRICAL METALLIC TUBING (EMT) - THIN WALL

| Tubing Size (Nominal) In | Outside Diameter In (mm) | Inside Diameter In (mm) | Weight Of Tubing Lbs/Ft (kg/m) |
|--------------------------|--------------------------|-------------------------|--------------------------------|
| 3/8 | 0.577 | 0.497 | 0.23 |
| | 14.7 | 12.6 | 0.34 |
| 1/2 | 0.706 | 0.626 | 0.29 |
| | 17.9 | 15.9 | 0.43 |
| 3/4 | 0.922 | 0.830 | 0.44 |
| | 23.4 | 21.1 | 0.65 |
| 1 | 1.163 | 1.055 | 0.64 |
| | 29.5 | 26.8 | 0.95 |
| 1 1/4 | 1.510 | 1.388 | 0.95 |
| | 38.4 | 35.3 | 1.41 |
| 1 1/2 | 1.740 | 1.618 | 1.10 |
| | 44.2 | 41.1 | 1.64 |
| 2 | 2.197 | 2.075 | 1.40 |
| | 55.8 | 52.7 | 2.08 |
| 2 1/2 | 2.875 | 2.731 | 2.30 |
| | 73.0 | 69.4 | 3.42 |
| 3 | 3.500 | 3.356 | 2.70 |
| | 88.9 | 85.2 | 4.02 |
| 3 1/2 | 4.000 | 3.834 | 3.40 |
| | 101.6 | 97.4 | 5.06 |
| 4 | 4.500 | 4.334 | 4.00 |
| | 114.3 | 110.1 | 5.95 |

INTERMEDIATE METALLIC CONDUIT (IMC)

| Conduit Size (Nominal) In | Outside Diameter In (mm) | Inside Diameter In (mm) | Weight Of Conduit Lbs/Ft (kg/m) | Weight of Conduit and Conductor Lbs/Ft (kg/m) |
|---------------------------|--------------------------|-------------------------|---------------------------------|---|
| 1/2 | 0.815 | 0.745 | 0.60 | 0.12 |
| | 20.7 | 18.9 | 0.89 | 0.18 |
| 3/4 | 1.029 | 0.954 | 0.82 | 1.13 |
| | 26.1 | 24.2 | 1.22 | 1.68 |
| 1 | 1.290 | 1.205 | 1.16 | 1.82 |
| | 32.8 | 30.6 | 1.73 | 2.71 |
| 1 1/4 | 1.638 | 1.553 | 1.50 | 2.67 |
| | 41.6 | 39.4 | 2.23 | 3.97 |
| 1 1/2 | 1.883 | 1.793 | 1.82 | 3.42 |
| | 47.8 | 45.5 | 2.71 | 5.09 |
| 2 | 2.360 | 2.266 | 2.42 | 5.04 |
| | 59.9 | 57.6 | 3.60 | 7.50 |
| 2 1/2 | 2.857 | 2.727 | 4.01 | 7.75 |
| | 72.6 | 69.3 | 5.97 | 11.53 |
| 3 | 3.476 | 3.346 | 4.43 | 10.69 |
| | 88.3 | 85.0 | 6.59 | 15.91 |
| 3 1/2 | 3.971 | 3.841 | 5.73 | 13.46 |
| | 100.9 | 97.6 | 8.53 | 20.03 |
| 4 | 4.466 | 4.336 | 6.38 | 16.37 |
| | 113.4 | 110.1 | 9.49 | 24.36 |

COPPER TUBE (TYPE L)

| Nom. Tube Size | O.D. Tubing In (mm) | O.D. In (mm) | Wall Thick. In (mm) | Weight Lbs/Ft (kg/m) | Weight Water Lbs/Ft (kg/m) |
|----------------|---------------------|--------------|---------------------|----------------------|----------------------------|
| 1/4" | 3/8 | 0.375 | 0.030 | 0.126 | 0.034 |
| | 9.5 | 9.5 | 0.8 | 0.19 | 0.05 |
| 3/8" | 1/2 | 0.500 | 0.035 | 0.198 | 0.062 |
| | 12.7 | 12.7 | 0.9 | 0.29 | 0.09 |
| 1/2" | 5/8 | 0.625 | 0.040 | 0.285 | 0.100 |
| | 15.9 | 15.9 | 1.0 | 0.42 | 0.15 |
| 5/8" | 3/4 | 0.750 | 0.042 | 0.362 | 0.151 |
| | 19.1 | 19.1 | 1.1 | 0.54 | 0.22 |
| 3/4" | 7/8 | 0.875 | 0.045 | 0.455 | 0.209 |
| | 22.2 | 22.2 | 1.1 | 0.68 | 0.31 |
| 1" | 1 1/8 | 1.125 | 0.050 | 0.655 | 0.357 |
| | 28.6 | 28.6 | 1.3 | 0.97 | 0.53 |
| 1 1/4" | 1 1/4 | 1.375 | 0.055 | 0.884 | 0.546 |
| | 34.9 | 34.9 | 1.4 | 1.32 | 0.81 |
| 1 1/2" | 1 1/2 | 1.625 | 0.060 | 1.140 | 0.767 |
| | 41.3 | 41.3 | 1.5 | 1.70 | 1.14 |
| 2" | 2 1/8 | 2.125 | 0.070 | 1.750 | 1.341 |
| | 54.0 | 54.0 | 1.8 | 2.60 | 2.00 |
| 2 1/2" | 2 1/2 | 2.625 | 0.080 | 2.480 | 2.064 |
| | 66.7 | 66.7 | 2.0 | 3.69 | 3.07 |
| 3" | 3 1/8 | 3.125 | 0.090 | 3.330 | 2.949 |
| | 79.4 | 79.4 | 2.3 | 4.96 | 4.39 |
| 3 1/2" | 3 3/8 | 3.625 | 0.100 | 4.290 | 3.989 |
| | 92.1 | 92.1 | 2.5 | 6.38 | 5.94 |
| 4" | 4 1/8 | 4.125 | 0.110 | 5.380 | 5.188 |
| | 104.8 | 104.8 | 2.8 | 8.01 | 7.72 |
| 5" | 5 1/8 | 5.125 | 0.125 | 7.610 | 8.081 |
| | 130.2 | 130.2 | 3.2 | 11.32 | 12.03 |
| 6" | 6 3/8 | 6.125 | 0.140 | 10.200 | 11.616 |
| | 155.6 | 155.6 | 3.6 | 15.18 | 17.29 |
| 8" | 8 1/8 | 8.125 | 0.200 | 19.290 | 20.289 |
| | 206.4 | 206.4 | 5.1 | 28.71 | 30.19 |
| 10" | 10 3/8 | 10.125 | 0.250 | 30.100 | 31.590 |
| | 257.2 | 257.2 | 6.4 | 44.79 | 47.01 |
| 12" | 12 3/8 | 12.125 | 0.280 | 40.400 | 45.426 |
| | 308.0 | 308.0 | 7.1 | 60.12 | 67.60 |

COPPER TUBE (TYPE K)

| Nom. Tube Size | O.D. Tubing In (mm) | O.D. In (mm) | Wall Thick. In (mm) | Weight Lbs/Ft (kg/m) | Weight Water Lbs/Ft (kg/m) |
|----------------|---------------------|--------------|---------------------|----------------------|----------------------------|
| 1/4" | 3/8 | 0.375 | 0.035 | 0.145 | 0.032 |
| | 9.5 | 9.5 | 0.89 | 0.22 | 0.05 |
| 3/8" | 1/2 | 0.500 | 0.005 | 0.269 | 0.055 |
| | 12.7 | 12.70 | 0.13 | 0.40 | 0.08 |
| 1/2" | 5/8 | 0.625 | 0.049 | 0.344 | 0.094 |
| | 15.9 | 15.88 | 1.24 | 0.51 | 0.14 |
| 5/8" | 3/4 | 0.750 | 0.049 | 0.418 | 0.144 |
| | 19.1 | 19.05 | 1.24 | 0.62 | 0.21 |
| 3/4" | 7/8 | 0.875 | 0.065 | 0.641 | 0.188 |
| | 22.2 | 22.23 | 1.65 | 0.95 | 0.28 |
| 1" | 1 1/8 | 1.125 | 0.065 | 0.839 | 0.337 |
| | 28.6 | 28.58 | 1.65 | 1.25 | 0.50 |
| 1 1/4" | 1 1/4 | 1.375 | 0.065 | 1.040 | 0.527 |
| | 34.9 | 34.93 | 1.65 | 1.55 | 0.78 |
| 1 1/2" | 1 1/2 | 1.625 | 0.072 | 1.360 | 0.743 |
| | 41.3 | 41.28 | 1.83 | 2.02 | 1.11 |
| 2" | 2 1/8 | 2.125 | 0.083 | 2.060 | 1.310 |
| | 54.0 | 53.98 | 2.11 | 3.07 | 1.95 |
| 2 1/2" | 2 1/2 | 2.625 | 0.095 | 2.920 | 2.000 |
| | 66.7 | 66.68 | 2.41 | 4.35 | 2.98 |
| 3" | 3 1/8 | 3.125 | 0.109 | 4.000 | 2.960 |
| | 79.4 | 79.38 | 2.77 | 5.95 | 4.40 |
| 3 1/2" | 3 3/8 | 3.625 | 0.120 | 5.120 | 3.900 |
| | 92.1 | 92.08 | 3.05 | 7.62 | 5.80 |
| 4" | 4 1/8 | 4.125 | 0.134 | 6.510 | 5.060 |
| | 104.8 | 104.78 | 3.40 | 9.69 | 7.53 |
| 5" | 5 1/8 | 5.125 | 0.160 | 9.670 | 8.000 |
| | 130.2 | 130.18 | 4.06 | 14.39 | 11.91 |
| 6" | 6 3/8 | 6.125 | 0.192 | 13.870 | 11.200 |
| | 155.6 | 155.58 | 4.88 | 20.64 | 16.67 |
| 8" | 8 1/8 | 8.125 | 0.271 | 25.900 | 19.500 |
| | 206.4 | 206.38 | 6.88 | 38.54 | 29.02 |
| 10" | 10 3/8 | 10.125 | 0.338 | 40.300 | 30.423 |
| | 257.2 | 257.18 | 8.59 | 59.97 | 45.27 |
| 12" | 12 3/8 | 12.125 | 0.405 | 57.800 | 43.675 |
| | 308.0 | 307.98 | 10.29 | 86.02 | 65.00 |

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RIGID STEEL (HEAVY DUTY) CONDUIT

| Conduit Size (Nominal) In | I. D. Of Conduit In (mm) | O. D. Of Conduit In (mm) | O. D. Of Coupling In (mm) | Weight of Conduit Lbs/Ft (kg/m) | Maximum Weight* Of Conduit And Conductor | | Not Lead Covered Lbs/Ft (kg/m) |
|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------------|--|----------------------------|--------------------------------|
| | | | | | Lead Covered Lbs/Ft (kg/m) | Lead Covered Lbs/Ft (kg/m) | |
| ½ | 0.622 | 0.840 | 1.063 | 0.85 | 1.20 | 1.00 | 1.00 |
| | 15.8 | 21.3 | 27.0 | 1.26 | 1.79 | 1.49 | 1.49 |
| ¾ | 0.824 | 1.050 | 1.297 | 1.13 | 1.80 | 1.40 | 1.40 |
| | 20.9 | 26.7 | 32.9 | 1.68 | 2.68 | 2.08 | 2.08 |
| 1 | 1.049 | 1.315 | 1.563 | 1.68 | 2.60 | 2.30 | 2.30 |
| | 26.6 | 33.4 | 39.7 | 2.50 | 3.87 | 3.42 | 3.42 |
| 1¼ | 1.380 | 1.660 | 1.969 | 2.28 | 4.30 | 3.60 | 3.60 |
| | 35.1 | 42.2 | 50.0 | 3.39 | 6.40 | 5.36 | 5.36 |
| 1½ | 1.610 | 1.900 | 2.234 | 2.73 | 5.90 | 4.50 | 4.50 |
| | 40.9 | 48.3 | 56.7 | 4.06 | 8.78 | 6.70 | 6.70 |
| 2 | 2.067 | 2.375 | 2.719 | 3.68 | 8.50 | 7.20 | 7.20 |
| | 52.5 | 60.3 | 69.1 | 5.48 | 12.65 | 10.71 | 10.71 |
| 2½ | 2.469 | 2.875 | 3.313 | 5.82 | 11.50 | 10.20 | 10.20 |
| | 62.7 | 73.0 | 84.2 | 8.66 | 17.11 | 15.18 | 15.18 |
| 3 | 3.068 | 3.500 | 3.938 | 7.62 | 16.50 | 14.50 | 14.50 |
| | 77.9 | 88.9 | 100.0 | 11.34 | 24.55 | 21.58 | 21.58 |
| 3½ | 3.548 | 4.000 | 4.438 | 9.20 | 19.00 | 17.50 | 17.50 |
| | 90.1 | 101.6 | 112.7 | 13.69 | 28.28 | 26.04 | 26.04 |
| 4 | 4.026 | 4.500 | 4.938 | 10.89 | 24.80 | 21.50 | 21.50 |
| | 102.3 | 114.3 | 125.4 | 16.21 | 36.91 | 32.00 | 32.00 |
| 5 | 5.047 | 5.563 | 6.296 | 14.81 | 35.90 | 30.80 | 30.80 |
| | 128.2 | 141.3 | 159.9 | 22.04 | 53.43 | 45.84 | 45.84 |
| 6 | 6.065 | 6.625 | 7.358 | 19.19 | 50.70 | 43.40 | 43.40 |
| | 154.1 | 168.3 | 186.9 | 28.56 | 75.45 | 64.59 | 64.59 |

* Maximum weight equals weight of rigid conduit plus weight of heaviest conductor combination (from the National Electrical Code Handbook.)

WATER FILLED PIPE SUPPORT SPACING

| Nominal Pipe Size In | Max. Span Ft (m) | Nominal Pipe Size In | Max. Span Ft (m) |
|----------------------|------------------|----------------------|------------------|
| 1 | 7 2.13 | 8 | 19 5.79 |
| 1½ | 9 2.74 | 10 | 22 6.71 |
| 2 | 10 3.05 | 12 | 23 7.01 |
| 2½ | 11 3.35 | 14 | 25 7.62 |
| 3 | 12 3.66 | 16 | 27 8.23 |
| 3½ | 13 3.96 | 18 | 28 8.53 |
| 4 | 14 4.27 | 20 | 30 9.14 |
| 5 | 16 4.88 | 24 | 32 9.75 |

The above spacing based on a combined bending and shear stress of 1500 PSI when pipe is filled with water and the pitch of the line is such that a sag of 0.1 in. between supports is permissible.

CONDUIT SUPPORT SPACING

346-12. Supports. Rigid metal conduit shall be installed as a complete system as provided in Article 344 and shall be securely fastened in place. Conduit shall be firmly fastened within 3 feet (914.4 mm) of each outlet box, junction box, cabinet, or fitting. Conduit shall be supported at least every 10 feet (3.05 m).

Exception: If made up with threaded couplings, it shall be permissible to support straight runs of rigid metal conduit in accordance with Table 344.30 (B)(2), provided such supports prevent transmission of stresses to termination where conduit is deflected between supports.

Table 344.30 (B)(2)
Support for Rigid Metal Conduit

| Conduit Size In (mm) | Maximum Distance Between Supports Ft (m) |
|----------------------|--|
| ½-¾ | 10 |
| 12.7 - 19.1 | 3.05 |
| 1 | 12 |
| 25.4 | 3.66 |
| 1¼- 1½ | 14 |
| 31.8 - 38.1 | 4.27 |
| 2- 2½ | 16 |
| 50.8 - 63.5 | 4.88 |
| 3 & larger | 20 |
| 76.2 - Larger | 6.10 |

SCHEDULE 40: PVC PLASTIC PIPE

| Pipe Size (Nominal) In | Outside Diameter In (mm) | Inside Diameter In (mm) | Pipe Weight Lbs/Ft (kg/m) | Pipe and Water Weight Lbs/Ft (kg/m) |
|------------------------|--------------------------|-------------------------|---------------------------|-------------------------------------|
| ¼ | 0.540 | 0.354 | 0.081 | 0.12 |
| | 13.7 | 9.0 | 0.12 | 0.18 |
| ⅜ | 0.675 | 0.483 | 0.109 | 0.19 |
| | 17.1 | 12.3 | 0.16 | 0.28 |
| ½ | 0.840 | 0.608 | 0.161 | 0.29 |
| | 21.3 | 15.4 | 0.24 | 0.43 |
| ¾ | 1.050 | 0.810 | 0.214 | 0.44 |
| | 26.7 | 20.6 | 0.32 | 0.65 |
| 1 | 1.315 | 1.033 | 0.315 | 0.68 |
| | 33.4 | 26.2 | 0.47 | 1.01 |
| 1¼ | 1.660 | 1.364 | 0.426 | 1.06 |
| | 42.2 | 34.6 | 0.63 | 1.58 |
| 1½ | 1.900 | 1.592 | 0.509 | 1.37 |
| | 48.3 | 40.4 | 0.76 | 2.04 |
| 2 | 2.375 | 2.049 | 0.682 | 2.11 |
| | 60.3 | 52.0 | 1.01 | 3.14 |
| 2½ | 2.875 | 2.445 | 1.076 | 3.11 |
| | 73.0 | 62.1 | 1.60 | 4.63 |
| 3 | 3.500 | 3.042 | 1.409 | 4.55 |
| | 88.9 | 77.3 | 2.10 | 6.77 |
| 4 | 4.500 | 3.998 | 2.006 | 7.44 |
| | 114.3 | 101.5 | 2.99 | 11.07 |
| 6 | 6.625 | 6.031 | 3.535 | 15.90 |
| | 168.3 | 153.2 | 5.26 | 23.66 |
| 8 | 8.625 | 7.943 | 5.305 | 26.75 |
| | 219.1 | 201.8 | 7.89 | 39.81 |
| 10 | 10.750 | 9.976 | 7.532 | 41.35 |
| | 273.1 | 253.4 | 11.21 | 61.54 |



DATA FOR SCHEDULE STEEL PIPE

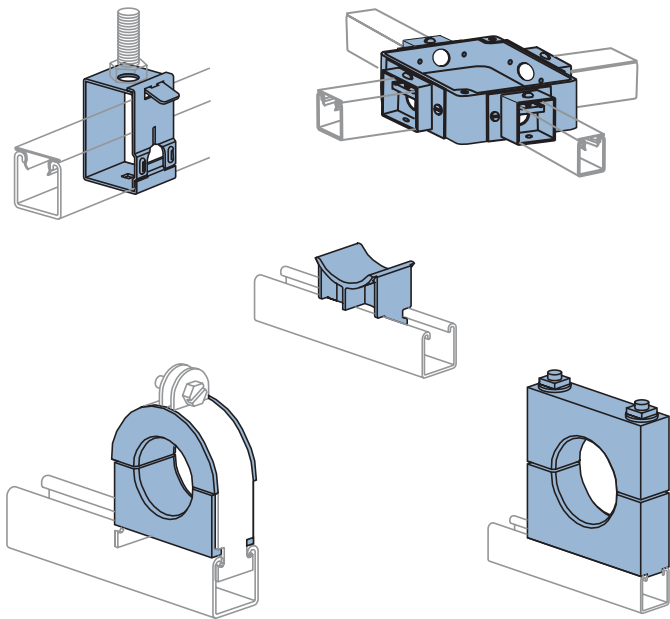
| Nom. Size In | Pipe Schedule | Outside Dia. In(mm) | Inside Dia. In(mm) | Pipe Weight Lbs/Ft (kg/m) | Pipe and Water Weight Lbs/Ft (kg/m) |
|--------------|---------------|---------------------|--------------------|---------------------------|-------------------------------------|
| 1/8 | 40 | 0.405 10.3 | 0.269 6.8 | 0.24 0.36 | 0.27 0.40 |
| | 80 | 0.405 10.3 | 0.215 5.5 | 0.31 0.46 | 0.33 0.49 |
| 1/4 | 40 | 0.540 13.7 | 0.364 9.2 | 0.42 0.63 | 0.47 0.70 |
| | 80 | 0.540 13.7 | 0.302 7.7 | 0.53 0.79 | 0.57 0.85 |
| 3/8 | 40 | 0.675 17.1 | 0.493 12.5 | 0.57 0.85 | 0.65 0.97 |
| | 80 | 0.675 17.1 | 0.423 10.7 | 0.74 1.10 | 0.80 1.19 |
| 1/2 | 40 | 0.840 21.3 | 0.622 15.8 | 0.85 1.26 | 0.98 1.46 |
| | 80 | 0.840 21.3 | 0.546 13.9 | 1.09 1.62 | 1.19 1.77 |
| | 160 | 0.840 21.3 | 0.464 11.8 | 1.31 1.95 | 1.38 2.05 |
| 3/4 | 40 | 1.050 26.7 | 0.824 20.9 | 1.13 1.68 | 1.36 2.02 |
| | 80 | 1.050 26.7 | 0.742 18.8 | 1.47 2.19 | 1.66 2.47 |
| | 160 | 1.050 26.7 | 0.612 15.5 | 1.94 2.89 | 2.07 3.08 |
| 1 | 40 | 1.315 33.4 | 1.049 26.6 | 1.68 2.50 | 2.05 3.05 |
| | 80 | 1.315 33.4 | 0.957 24.3 | 2.17 3.23 | 2.48 3.69 |
| | 160 | 1.315 33.4 | 0.815 20.7 | 2.84 4.23 | 3.07 4.57 |
| 1 1/4 | 40 | 1.660 42.2 | 1.380 35.1 | 2.27 3.38 | 2.92 4.35 |
| | 80 | 1.660 42.2 | 1.278 32.5 | 2.99 4.45 | 3.55 5.28 |
| | 160 | 1.660 42.2 | 1.160 29.5 | 3.76 5.60 | 4.22 6.28 |
| 1 1/2 | 40 | 1.900 48.3 | 1.610 40.9 | 2.71 4.03 | 3.60 5.36 |
| | 80 | 1.900 48.3 | 1.500 38.1 | 3.63 5.40 | 4.39 6.53 |
| | 160 | 1.900 48.3 | 1.338 34.0 | 4.85 7.22 | 5.46 8.13 |
| 2 | 40 | 2.375 60.3 | 2.067 52.5 | 3.65 5.43 | 5.10 7.59 |
| | 80 | 2.375 60.3 | 1.939 49.3 | 5.02 7.47 | 6.30 9.38 |
| | 160 | 2.375 60.3 | 1.687 42.8 | 7.45 11.09 | 8.42 12.53 |
| 2 1/2 | 40 | 2.875 73.0 | 2.469 62.7 | 5.79 8.62 | 7.86 11.70 |
| | 80 | 2.875 73.0 | 2.323 59.0 | 7.65 11.38 | 9.49 14.12 |
| | 160 | 2.875 73.0 | 2.125 54.0 | 10.00 14.88 | 11.54 17.17 |
| 3 | 40 | 3.500 88.9 | 3.068 77.9 | 7.57 11.27 | 10.77 16.03 |
| | 80 | 3.500 88.9 | 2.900 73.7 | 10.24 15.24 | 13.11 19.51 |
| | 160 | 3.500 88.9 | 2.624 66.6 | 14.31 21.30 | 16.65 24.78 |
| 3 1/2 | 40 | 4.000 101.6 | 3.548 90.1 | 9.10 13.54 | 13.39 19.93 |
| | 80 | 4.000 101.6 | 3.364 85.4 | 12.49 18.59 | 16.35 24.33 |

| Nom. Size In | Pipe Schedule | Outside Dia. In(mm) | Inside Dia. In(mm) | Pipe Weight Lbs/Ft (kg/m) | Pipe and Water Weight Lbs/Ft (kg/m) |
|--------------|---------------|---------------------|--------------------|---------------------------|-------------------------------------|
| 4 | 40 | 4.500 114.3 | 4.026 102.3 | 10.78 16.04 | 16.30 24.26 |
| | 80 | 4.500 114.3 | 3.826 97.2 | 14.97 22.28 | 19.95 29.69 |
| | 120 | 4.500 114.3 | 3.624 92.0 | 18.98 28.25 | 23.45 34.90 |
| 5 | 160 | 4.500 114.3 | 3.438 87.3 | 22.48 33.45 | 26.51 39.45 |
| | 40 | 5.563 141.3 | 5.047 128.2 | 14.60 21.73 | 23.27 34.63 |
| | 80 | 5.563 141.3 | 4.813 122.2 | 20.75 30.88 | 28.64 42.62 |
| 6 | 120 | 5.563 141.3 | 4.563 115.9 | 27.01 40.20 | 34.09 50.73 |
| | 160 | 5.563 141.3 | 4.313 109.5 | 32.92 48.99 | 39.26 58.43 |
| | 40 | 6.625 168.3 | 6.065 154.1 | 18.95 28.20 | 31.48 46.85 |
| 7 | 80 | 6.625 168.3 | 5.761 146.3 | 28.54 42.47 | 39.84 59.29 |
| | 120 | 6.625 168.3 | 5.501 139.7 | 36.35 54.09 | 46.66 69.44 |
| | 160 | 6.625 168.3 | 5.187 131.7 | 45.30 67.41 | 54.47 81.06 |
| 8 | 20 | 8.625 219.1 | 8.125 206.4 | 22.34 33.25 | 44.82 66.70 |
| | 30 | 8.625 219.1 | 8.071 205.0 | 24.67 36.71 | 46.85 69.72 |
| | 40 | 8.625 219.1 | 7.981 202.7 | 28.52 42.44 | 50.21 74.72 |
| 9 | 60 | 8.625 219.1 | 7.813 198.5 | 35.60 52.98 | 56.39 83.92 |
| | 80 | 8.625 219.1 | 7.625 193.7 | 43.34 64.50 | 63.14 93.96 |
| | 100 | 8.625 219.1 | 7.437 188.9 | 50.89 75.73 | 69.73 103.77 |
| 10 | 120 | 8.625 219.1 | 7.187 182.5 | 60.65 90.26 | 78.23 116.42 |
| | 140 | 8.625 219.1 | 7.001 177.8 | 67.68 100.72 | 84.37 125.56 |
| | 160 | 8.625 219.1 | 6.813 173.1 | 74.61 111.03 | 90.42 134.56 |
| 11 | 20 | 10.750 273.1 | 10.250 260.4 | 28.01 41.68 | 63.78 94.92 |
| | 30 | 10.750 273.1 | 10.136 257.5 | 34.20 50.90 | 69.19 102.97 |
| | 40 | 10.750 273.1 | 10.020 254.5 | 40.44 60.18 | 74.63 111.06 |
| 12 | 60 | 10.750 273.1 | 9.750 247.7 | 54.68 81.37 | 87.05 129.54 |
| | 80 | 10.750 273.1 | 9.562 242.9 | 64.36 95.78 | 95.50 142.12 |
| | 100 | 10.750 273.1 | 9.312 236.5 | 76.95 114.51 | 106.47 158.44 |
| 13 | 120 | 10.750 273.1 | 9.062 230.2 | 89.20 132.74 | 117.16 174.35 |
| | 140 | 10.750 273.1 | 8.750 222.3 | 104.02 154.80 | 130.09 193.60 |
| | 160 | 10.750 273.1 | 8.500 215.9 | 115.52 171.91 | 140.13 208.54 |

1 1/8" Channel
Telestrut
Nuts & Hardware
General Fittings
Pipe/Conduit Supports
Electrical Fittings
Concrete Inserts
Solar
Unipier®



ELECTRICAL FITTINGS



| | |
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MATERIAL

Unistrut fittings, unless noted, are made from hot-rolled, pickled and oiled steel plates, strip, bar or coil, and conform to one or more of the following specifications:

ASTM A575, A576, A635, A1011 SS GR 33, A1011 HSLAS GR 45 or A36. The fitting steel also meets or exceeds the physical requirements of ASTM A1011 SS GR 33.

Maple cable saddles, cable clamps and bus bar clamps are made from kiln-dry maple treated with paraffin to a depth of 1/16" (1.6mm). Special sizes of clamps can be fabricated upon request. Cable saddles are fiberglass-reinforced polyester.

CHANNEL RACEWAYS

The Unistrut Metal Framing System includes an exclusive combination of channel, fittings and hardware listed under new UL classification 5B. This classification covers strut-type channel raceways and fittings for use in accordance with Article 384 of the National Electrical Code, NFPA 70.

Included are metal strut-type channel raceways at least .071 inch (1.81mm) thick and metal or non-metal closure strips at least .040 inch (1.02mm) thick.

The Unistrut system requires no welding, drilling or other complex fabrication techniques. This means faster, easier solutions for virtually any electrical support problem.

Unistrut channel offers structural and spanning capabilities not available with conventional surface raceway products and is available in continuous lengths of up to 20 feet. Just as important, it is part of an integrated system that can be used for raceways, trapeze hangers, cable-tray supports, lighting grids, fluorescent-fixture supports and countless other electrical applications.

CHANNEL COMPATABILITY

All of the electrical components in this section are intended for use with any of the 1 5/8" wide channel. They are not intended for use with 1 1/4" or 1 3/16" framing systems.

FINISHES

Components listed in this section are available in:

Electro-galvanized (EG), conforming to ASTM B633 Type III SC1;

Hot-dipped galvanized (HG), conforming to ASTM A123 or A153,

Green Powder Coat (GR), conforming to commercial standards for Powder Coating

Plain (PL)

Note: Many Unistrut Metal Framing components, when used with appropriate closures, are UL® listed, and CSA approved.

DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

DIMENSIONS

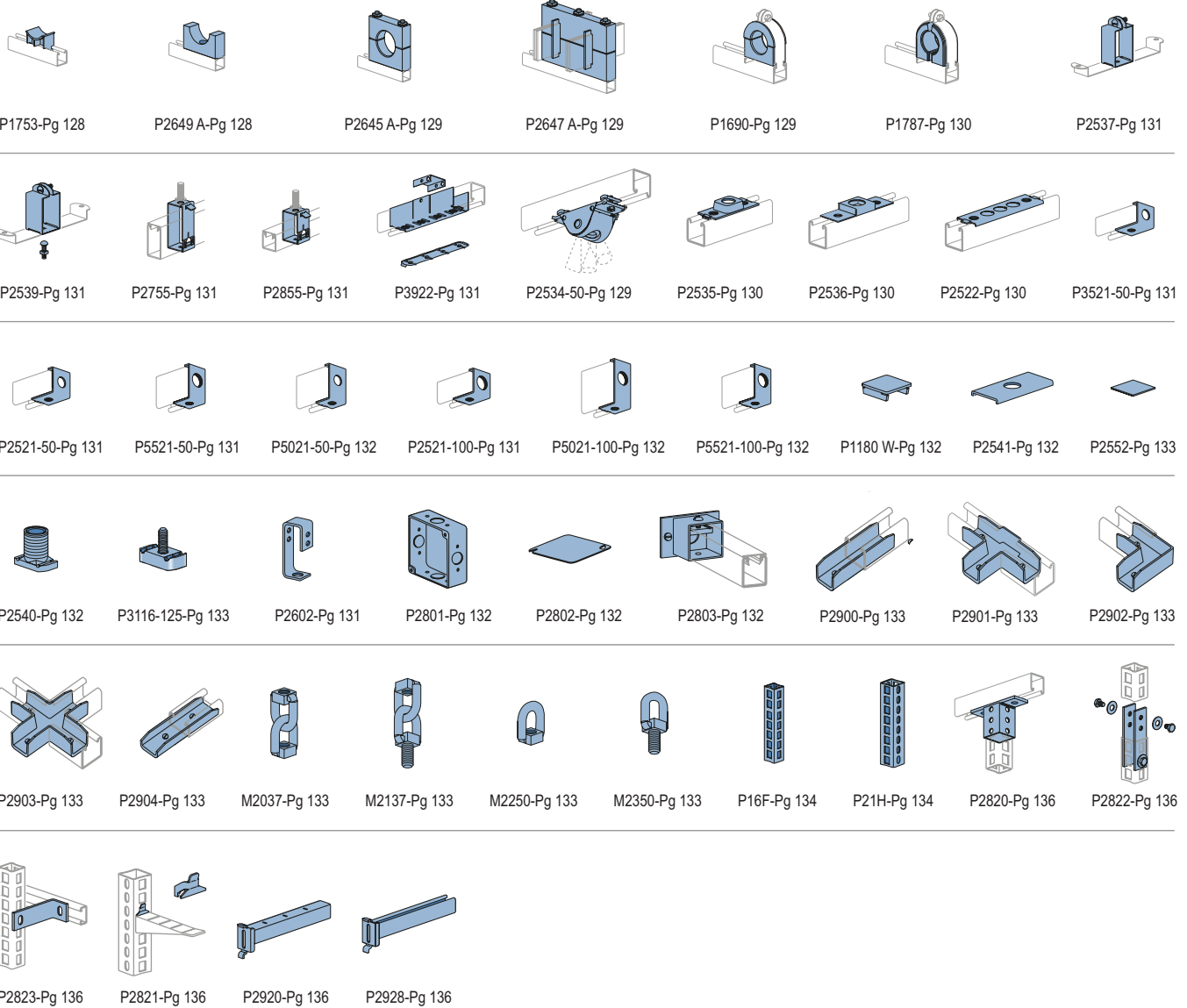
Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

LISTINGS

| | |
|-----------------------|--------------------------|
| UL File No. - E19459 | Channel & Closure Strips |
| UL File No. - E25629 | Fittings |
| CSA File No. - 013669 | All Products |



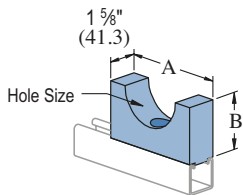
Electrical Fittings



P2649A THRU P2649H

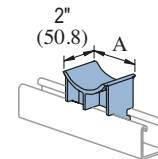
MAPLE CABLE SADDLES

P1753, P1754 CABLE SADDLES



- 3/8" Flat Head Machine Screw included.
 - Specify hole size when ordering.
 - Order channel nuts as required.
- Material: Paraffin impregnated maple hardwood.

| Part No. | Hole Size In (mm) | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|----------------------|----------------|----------------|------------------------|
| P2649A | 0 - 1 | 3 | 1 3/4 | 31 |
| P2649B | 0 - 25.4 | 76.2 | 44.5 | 14.1 |
| P2649B | 1 - 1 1/2 | 3 1/2 | 2 | 38 |
| P2649B | 25.4 x 38.1 | 88.9 | 50.8 | 17.2 |
| P2649C | 1 1/2 - 2 | 4 | 2 1/4 | 47 |
| P2649C | 38.1 - 50.8 | 101.6 | 57.2 | 21.3 |
| P2649D | 2 - 2 1/2 | 4 1/2 | 2 1/2 | 57 |
| P2649D | 50.8 x 63.5 | 114.3 | 63.5 | 25.9 |
| P2649E | 2 1/2 - 3 | 5 | 2 3/4 | 68 |
| P2649E | 63.5 - 76.2 | 127.0 | 69.9 | 30.8 |
| P2649F | 3 - 3 1/2 | 5 1/2 | 3 | 80 |
| P2649F | 76.2 x 88.9 | 139.7 | 76.2 | 36.3 |
| P2649G | 3 1/2 - 4 | 6 | 3 1/4 | 94 |
| P2649G | 88.9 - 101.6 | 152.4 | 82.6 | 42.6 |
| P2649H | over 4 | | | |
| P2649H | over 101.6 | | | |

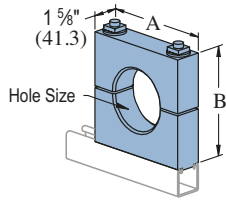


| Part Number | "A" In (mm) | Maximum Cable Dia. In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------|-------------------------------|------------------------|
| P1753 FG | 2 13/16 | 3 | 12 |
| P1753 FG | 71.4 | 76.2 | 5.4 |
| P1754 FG | 3 3/4 | 4 1/2 | 17 |
| P1754 FG | 95.3 | 114.3 | 7.7 |
| P1753 PO | 3 | 3 | 75 |
| P1753 PO | 76.2 | 76.2 | 34.0 |
| P1754 PO | 4 | 4 1/2 | 95 |
| P1754 PO | 101.6 | 114.3 | 43.1 |

Material: FG - Fiberglass Reinforced Polyester, PO - Dry Process White Glazed Porcelain

P2645A THRU P2645H

MAPLE CABLE CLAMPS



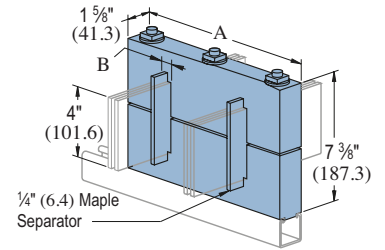
- 3/8" studs, square nuts and washers included.
 - Specify hole size when ordering.
 - Order channel nuts as required.
- Material: Paraffin impregnated maple hardwood.

| Part No. | Hole Size In (mm) | "A" & "B" Dimensions In (mm) | Wt/100 pcs Lbs (kg) |
|----------|---------------------------|------------------------------|---------------------|
| P2645A | 0 - 1 0 - 25.4 | 3 1/2 88.9 | 84 38.1 |
| P2645B | 1 - 1 1/2 25.4 x 38.1 | 4 101.6 | 102 46.3 |
| P2645C | 1 1/2 - 2 38.1 - 50.8 | 4 1/2 114.3 | 121 54.9 |
| P2645D | 2 - 2 1/2 50.8 x 63.5 | 5 1/2 139.7 | 165 74.8 |
| P2645E | 2 1/2 - 3 63.5 - 76.2 | 6 152.4 | 189 85.7 |
| P2645F | 3 - 3 1/2 76.2 x 88.9 | 6 1/2 165.1 | 215 97.5 |
| P2645G | 3 1/2 - 4 88.9 - 101.6 | 7 177.8 | 243 110.2 |
| P2645H | over 4 over 101.6 | - | - |

P2647A THRU P2647F

4" (101.6) BUS BAR MAPLE CLAMPS

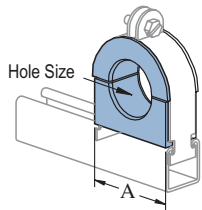
- 1/2" studs, square nuts and washers are included.
 - Channel nuts must be ordered separately.
 - Bus bar maple clamps also available in 1/4" (6.4) x 2" (50.8) and 1/4" (6.4) x 6" (152.4).
- Material: Paraffin impregnated maple hardwood.



| Part No. | "A" In (mm) | "B" In (mm) | No. Bus Separators | No. Bars Per Leg | Wt/100 pcs Lbs (kg) |
|----------|-----------------|-----------------|--------------------|------------------|---------------------|
| P2647A | 8 1/2 215.9 | 9/32 7.1 | 0 | 1 | 421 191.0 |
| P2647B | 9 1/2 241.3 | 13/16 20.6 | 2 | 2 | 465 210.9 |
| P2647C | 10 1/2 266.7 | 15/16 33.3 | 4 | 3 | 509 230.9 |
| P2647D | 11 1/2 292.1 | 1 13/16 46.0 | 6 | 4 | 553 250.8 |
| P2647E | 12 1/2 317.5 | 2 3/8 60.3 | 8 | 5 | 597 270.8 |
| P2647F | 13 1/2 342.9 | 2 1/2 73.0 | 10 | 6 | 631 286.2 |

P1690 THRU P1697

MAPLE CABLE CLAMPS

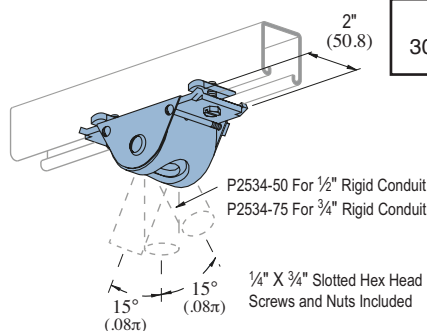


- Use with steel clamp and Everdur hardware. Order clamp separately.
 - Specify hole size when ordering.
- Material: Paraffin impregnated maple hardwood.

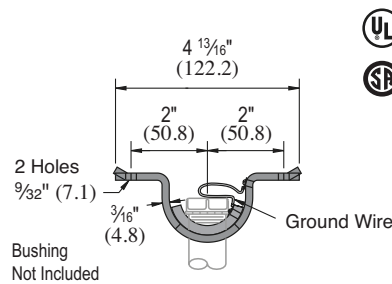
| Part No. | Steel Clamp No. | Hole Size In (mm) | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|-----------------|------------------------------|-----------------|---------------------|
| P1690 | P1113 E | 0 - 5/8 0 - 15.9 | 1 5/16 33.3 | 24 10.9 |
| P1691 | P1115 E | 1/2 - 1 12.7 - 25.4 | 1 15/16 49.2 | 42 19.1 |
| P1692 | P1117 E | 3/4 - 1 1/2 19.1 x 38.1 | 2 3/8 60.3 | 54 24.5 |
| P1693 | P1118 E | 1 1/4 - 1 3/4 31.8 x 44.5 | 2 7/8 73.0 | 65 29.5 |
| P1694 | P1119 E | 1 1/2 - 2 1/4 38.1 x 57.2 | 3 1/2 88.9 | 84 38.1 |
| P1695 | P1120 E | 2 - 2 1/2 50.8 x 63.5 | 4 101.6 | 107 48.5 |
| P1696 | P1121 E | 2 1/4 - 3 57.2 - 76.2 | 4 1/2 114.3 | 123 55.8 |
| P1697 | P1123 E | 3 - 4 76.2 - 101.6 | 5 5/16 141.3 | 163 73.9 |

P2534-50, P2534-75

CONDUIT SWING FITTING



Design Load
300 Lbs (1.33 kN)



- Conduit hanger fittings allow a free swivel of 15° in one direction.
- Fitting may be mounted to the slot side of the Unistrut channel or to the back.

Wt/100 pcs: 96 Lbs (43.5 kg)



P1787 THRU P1795

PORCE-A-CLAMP™

1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

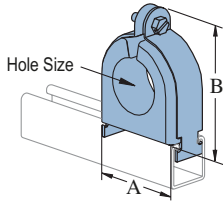
Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

Solar

Unipier®



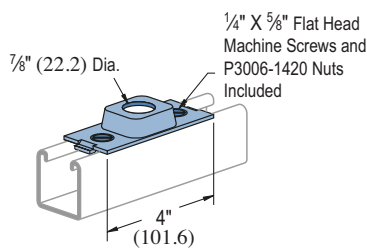
Patents Pending
 Strap Material:
 Electro-galvanized Steel (EG) or
 Stainless Steel (SS)
 Use With: All 1 1/8" channel

- Porce-A-Clamp™
- Non-Breakable TPE Material.
 - U.V. Resistant.
 - U.L. Listed.
 - Optional Stainless Steel Clamps.
 - Tapered Flange to Protect Cable.
 - Dielectric Strength 640 Volts Per Mil.
 - One Piece Insulator.
 - Replaces Porcelain & Maple Cable Clamp.
 - For use in accordance with National Electrical Code ANSI/NFPA 70.
 - Includes Pipe Strap.
 - Temperature Rating -50°F to +275°F (-45°C to +135°C)

| Part Number | Hole Size In (mm) | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------------|----------------|----------------|------------------------|
| P1787A | 3/8 9.5 | 1.36 34.5 | 1.82 46.2 | 25 11.3 |
| P1787B | 1/2 12.7 | | | |
| P1787C | 5/8 15.9 | | | |
| P1788 | 3/4 19.1 | 1.86 47.2 | 2.34 59.4 | 37 16.8 |
| P1788A | 7/8 22.2 | | | |
| P1788B | 1 25.4 | | | |
| P1788C | 1 1/8 28.6 | | | |
| P1789 | 1 1/4 31.8 | 2.36 59.9 | 2.86 72.6 | 58 26.3 |
| P1789A | 1 3/8 34.9 | | | |
| P1789B | 1 1/2 38.1 | | | |
| P1789C | 1 5/8 41.3 | 2.86 72.6 | 3.50 88.9 | 76 34.5 |
| P1790 | 1 3/4 44.5 | | | |
| P1790A | 1 7/8 47.6 | | | |
| P1790B | 2 50.8 | 3.36 83.5 | 4.05 102.9 | 90 40.8 |
| P1790C | 2 1/8 54.0 | | | |
| P1791 | 2 1/4 57.2 | 5.24 133.1 | 5.92 150.4 | 160 72.6 |
| P1791A | 2 3/8 60.3 | | | |

| Part Number | Hole Size In (mm) | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------------|----------------|----------------|------------------------|
| P1791B | 2 1/2 63.5 | 3.36 85.3 | 4.05 102.9 | 90 40.8 |
| P1791C | 2 5/8 66.7 | | | |
| P1792 | 2 3/4 69.9 | 3.86 98.0 | 4.75 120.7 | 109 49.4 |
| P1792A | 2 7/8 73.0 | | | |
| P1792B | 3 76.2 | | | |
| P1792C | 3 1/8 79.4 | | | |
| P1793 | 3 1/4 82.6 | 4.36 110.7 | 5.125 130.2 | 130 59.0 |
| P1793A | 3 3/8 85.7 | | | |
| P1793B | 3 1/2 88.9 | | | |
| P1793C | 3 5/8 92.1 | 4.86 123.4 | 5.54 140.7 | 160 72.6 |
| P1794 | 3 3/4 95.3 | | | |
| P1794A | 3 7/8 98.4 | | | |
| P1794B | 4 101.6 | | | |
| P1794C | 4 1/8 104.8 | 5.24 133.1 | 5.92 150.4 | 160 72.6 |
| P1795 | 4 1/4 108.0 | | | |
| P1795A | 4 3/8 111.1 | | | |
| P1795B | 4 1/2 114.3 | | | |

P2535 CONDUIT HANGER CONNECTION FOR 1/2" CONDUIT



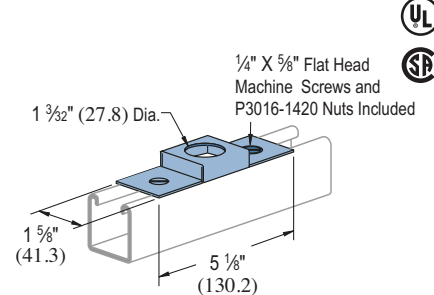
1/4" X 5/8" Flat Head Machine Screws and P3006-1420 Nuts Included

Design Load
400 Lbs (1.78 kN)

Material: 12 gauge (2.7).

Wt/100 pcs: 28 Lbs (12.7 kg)

P2536 CONDUIT HANGER CONNECTION FOR 3/4" CONDUIT



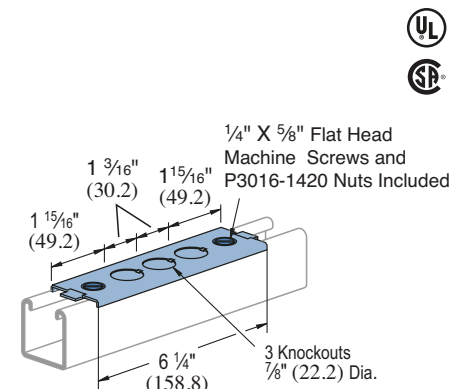
1/4" X 5/8" Flat Head Machine Screws and P3016-1420 Nuts Included

Design Load
200 Lbs (0.89 kN)

Material: 16 gauge (1.5)

Wt/100 pcs: 36 Lbs (16.3 kg)

P2522 OUTLET BOX CONNECTION

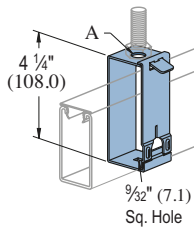


1/4" X 5/8" Flat Head Machine Screws and P3016-1420 Nuts Included

Wt/100 pcs: 35 Lbs (15.9 kg)

P2755, P2756, P2757

RACEWAY HANGERS



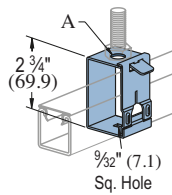
Design Load
120 Lbs (0.53 kN)

| Part No. | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|---------------|---------------------|
| P2755 | 9/16 14.3 | 44 20.0 |
| P2756 | 7/8 22.2 | 44 20.0 |
| P2757 | 13/32 10.3 | 44 20.0 |

Use with Channels:
P1001, P1101, P2001,
P5000, & P5500.
Material: 14 gauge (1.9).

P2855, P2856, P2857

RACEWAY HANGERS



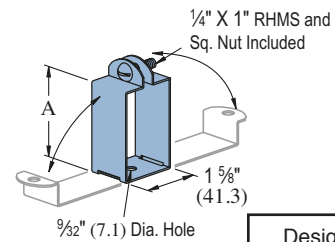
Design Load
120 Lbs (0.53 kN)

| Part No. | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|---------------|---------------------|
| P2855 | 9/16 14.3 | 32 14.5 |
| P2856 | 7/8 22.2 | 32 14.5 |
| P2857 | 13/32 10.3 | 32 14.5 |

Use with Channels:
P1000, P1100,
P3000, P3300
Material: 14 gauge (1.9).

P2537, P5537

FLUORESCENT FIXTURE HANGERS



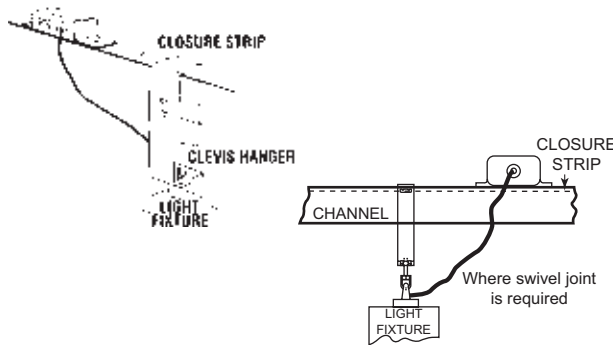
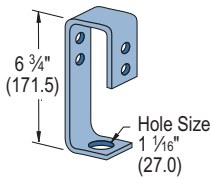
Design Load
120 Lbs (0.53 kN)

• Hanger provides more than 1/2" (12.7) space between channel and fixtures.
Materials: 18 gauge (1.2).

| Part No. | Use w/Channel | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|---------------|-------------|---------------------|
| P2537 | P1000 | 27/16 | 19 |
| | P1100 | 61.9 | 8.6 |
| | P3000 | | |
| P5537 | P5500 | 3 1/4 | 22 |
| | | 82.6 | 10.0 |

P2602

MERCURY VAPOR FIXTURE HANGER

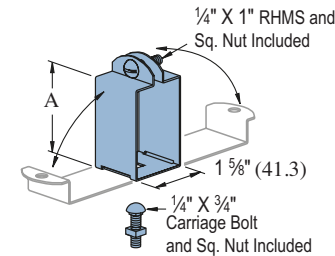


Use with 1 1/2" Channel
Finish: Electro-galvanized
Stock Size: 1/4"
NOTE: Supports fixture in slot up or down system.

Wt/100 pcs: 154 Lbs (69.9 kg)

P2539, P3539, P5539

FLUORESCENT FIXTURE HANGERS



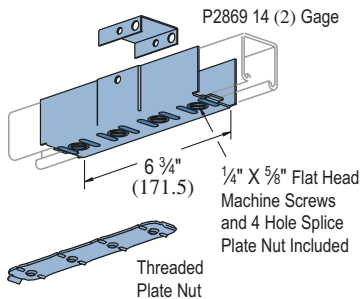
• Hanger provides 1/8" (3.2) space between channel and fixtures.
Materials: 18 gauge (1.2).

Design Load
120 Lbs (0.53 kN)

| Part No. | Use w/Channel | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|---------------|-------------|---------------------|
| P2539 | P1000 | 1 1/4 | 17 |
| | P1100 | 44.5 | 7.7 |
| P3539 | P3000 | 1 1/2 | 15 |
| | | 38.1 | 6.8 |
| P5539 | P5500 | 2 5/16 | 18 |
| | | 65.1 | 8.2 |

P3922 THRU P3926

SPLICE FITTINGS

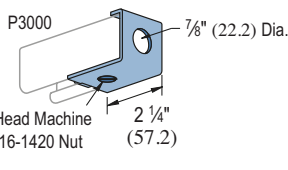


| Assy. No. | Use W/ Channel | "A" In (mm) | Clevis No. | Back Clevis No. | Plate Nut No. | Wt/100 pcs Lbs (kg) |
|-----------|----------------|-------------|------------|-----------------|---------------|---------------------|
| P3922 | P1000 | 1 5/8 | P2377 | P2517 | P2869 | 100 |
| | P1100 | 41.3 | | | | 45.4 |
| P3923 | P3000 | 1 3/8 | P3377 | P2517 | P2869 | 97 |
| | | 34.9 | | | | 44.0 |
| P3924 | P4000 | 1 5/16 | P5377 | P2517 | P2869 | 80 |
| | | 20.6 | | | | 36.3 |
| P3925 | P5500 | 1 5/8 | P2377 | P5517 | P2869 | 103 |
| | | 41.3 | | | | 46.7 |
| P3926 | P5000 | 1 5/8 | P2377 | P5017 | P2869 | 106 |
| | | 41.3 | | | | 48.1 |

Material: 16 gauge (1.6).

P3521-50

END CONNECTORS FOR 1/2" CONDUIT



Material: 12 gauge (3).

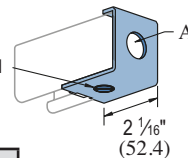
Wt/100 pcs: 27 Lbs (12.2 kg)

P2521-50, P2521-75

END CONNECTORS FOR 1/2" & 3/4" CONDUIT



1/4" X 5/8" Flat Head Machine Screw and P3016-1420 Nut Included



| Part No. | Conduit Size In | Wt/100 pcs Lbs (kg) |
|----------|-----------------|---------------------|
| P2521-50 | 1/2 | 27 12.2 |
| P2521-75 | 3/4 | 26 11.8 |

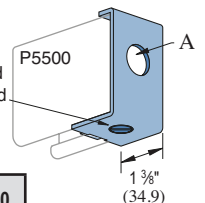
Use with channels:
P1000 and P1100.
Material:
12 gauge (3)

P5521-50, P5521-75

END CONNECTORS FOR 1/2" & 3/4" CONDUIT



1/4" X 5/8" Flat Head Machine Screw and P3016-1420 Nut Included



| Part No. | Conduit Size In | Wt/100 pcs Lbs (kg) |
|----------|-----------------|---------------------|
| P5521-50 | 1/2 | 27 12.2 |
| P5521-75 | 3/4 | 26 11.8 |

Material:
12 gauge (3).



1 5/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

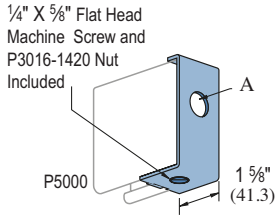
Electrical Fittings

Concrete Inserts

Solar

Unipier®

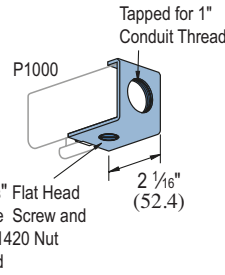
P5021-50, P5021-75 END CONNECTOR FOR 1/2" & 3/4" CONDUIT



| Part No. | Conduit Size A In | Wt/100 pcs Lbs (kg) |
|----------|-------------------|---------------------|
| P5021-50 | 1/2 | 31 14.1 |
| P5021-75 | 3/4 | 30 13.6 |

Material: 12 gauge (2.7).

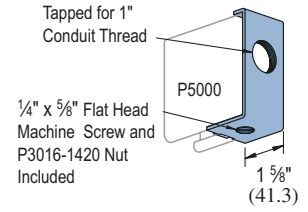
P2521-100 END CONNECTOR FOR 1" CONDUIT



Material: 12 gauge (2.7).

Wt/100 pcs: 24 Lbs (10.9 kg)

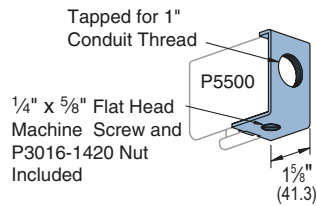
P5021-100 END CONNECTOR FOR 1" CONDUIT



Material: 12 gauge (2.7).

Wt/100 pcs: 28 Lbs (12.7 kg)

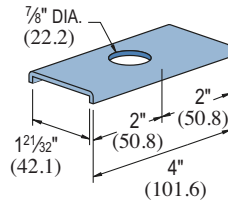
P5521-100 END CONNECTOR FOR 1" CONDUIT



Material: 12 gauge (2.7).

Wt/100 pcs: 24 Lbs (10.9 kg)

P2541



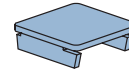
Material: 12 gauge (2.7).

Wt/100 pcs: 24 Lbs (10.9 kg)

SPACER CLEVIS



P1180W THRU P5580W END CAPS

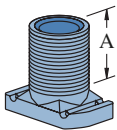


Material: 14 gauge (1.9)

| Part Number | Use With | Wt/100 pcs Lbs (kg) |
|-------------|----------|---------------------|
| P1180W | P1100 | 12 (5.4) |
| P1280W | P1000 | 11 (5.0) |
| P2280W | P2000 | 11 (5.0) |
| P3280W | P3000 | 8 (3.6) |
| P4280W | P4000 | 5 (2.3) |
| P5280W | P5000 | 22 (10.0) |
| P5580W | P5500 | 18 (8.2) |

P2540, P2540A

WIRING STUD NUT



Stamped Ident. No.
P2540 - 121961
P2540A - 121960
Material: Sintered metal.

1/2" American Standard Straight Pipe Thread

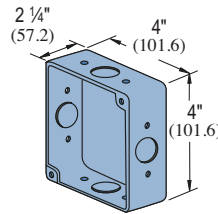


| Part No. | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|---------------|---------------------|
| P2540 | 1 3/4 27.4 | 10.0 4.5 |
| P2540A | 5/8 15.9 | 8 3.6 |

Design Load
320 Lbs (1.42 kN)

P2801

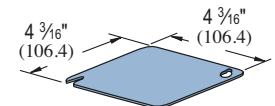
JUNCTION BOX



Wt/100 pcs: 113 Lbs (51.4 kg)



P2802 JUNCTION BOX COVER

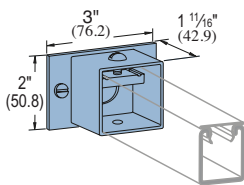


Wt/100 pcs: 30 Lbs (13.6 kg)

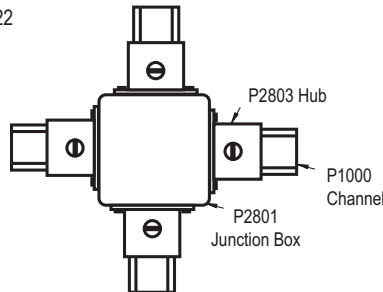


P2803

HUB ASSEMBLY



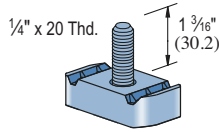
Stamp ID No. 122022



Note: Combine junction box (P2801) and hub assemblies (P2803) to make 1, 2, 3, or 4 way junction box.

Wt/100 pcs: 32 Lbs (14.5 kg)

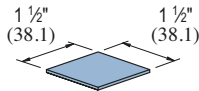
P3116-125
FIXTURE STUD NUT



Wt/100 pcs: 11 Lbs (5.0 kg)

P2552

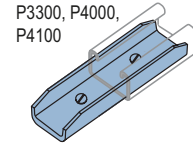
POLYPROPYLENE WIRE RETAINER



Retainer may be easily pushed into channel to support wires until closure strip is installed.

Wt/100 pcs: .30 Lbs (.1 kg)

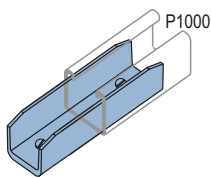
P2904



3/8"-16 x 1/4" Socket Cup Point
Set Screws Included
Extruded Aluminum

Wt/100 pcs: 12 Lbs (5.4kg)

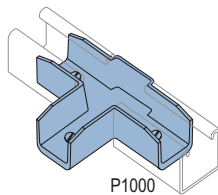
P2900



3/8"-16 x 1/4" Socket Cup Point
Set Screws Included
Material: Cast aluminum.

Wt/100 pcs: 20 Lbs (9.1 kg)

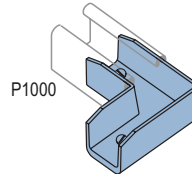
P2901



3/8"-16 x 1/4" Socket Cup Point
Set Screws Included
Material: Cast aluminum.

Wt/100 pcs: 35 Lbs (15.9 kg)

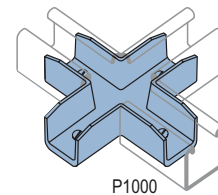
P2902



3/8"-16 x 1/4" Socket Cup Point
Set Screws Included
Material: Cast aluminum.

Wt/100 pcs: 27 Lbs (12.2 kg)

P2903

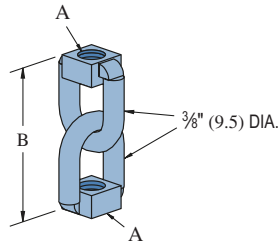


3/8"-16 x 1/4" Socket Cup Point
Set Screws Included
Material: Cast aluminum.

Wt/100 pcs: 45 Lbs (20.4 kg)

M2037, M2050

SWIVEL HANGERS

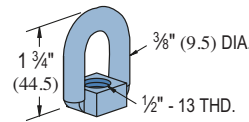


Design Load
600 Lbs (2.67 kN)

| Part No. | "A" In | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|-----------|---|---------------------|
| M2037 | 3/8" - 16 | 2 ³¹ / ₃₂ 75.4 | 23 10.4 |
| M2050 | 1/2" - 13 | 2 ³ / ₄ 69.9 | 32 14.5 |

M2250

SWIVEL HANGER

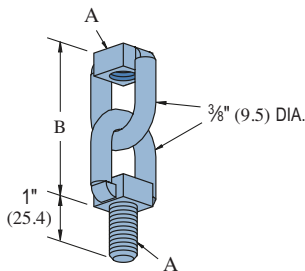


Design Load
600 Lbs (2.67 kN)

Wt/100 pcs: 18 Lbs (8.2 kg)

M2137, M2150

SWIVEL HANGERS

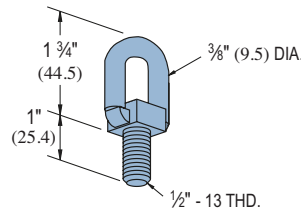


Design Load
600 Lbs (2.67 kN)

| Part No. | "A" In | "B" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|-----------|---------------------------------------|---------------------|
| M2137 | 3/8" - 16 | 2 ²⁹ / ₃₂ 74 | 27 12.2 |
| M2150 | 1/2" - 13 | 2 ³ / ₄ 69.9 | 45 20.4 |

M2350

SWIVEL HANGER

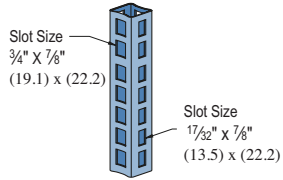


Design Load
600 Lbs (2.67 kN)

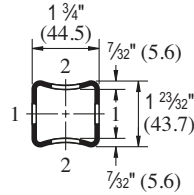
Wt/100 pcs: 20 Lbs (9.1 kg)



P16F



Slot spacing
1/4" (31.8)
on center.



Tubing Finishes: PL, GR, HG, PG;
Standard Lengths: 10' & 20'

Wt/100 Ft: 178 Lbs (260 kg/100 m)
Allowable Moment 4,800 In-Lbs (540 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

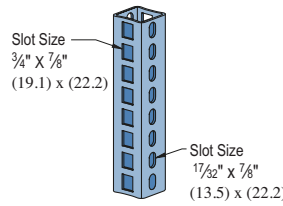
P16F - COLUMN LOADING

| Unbraced Height In | Max. Allowable Load Column Loaded at C.G. Lbs | Max. Allowable Load Column Loaded at Slot Face Lbs |
|--------------------|---|--|
| 24 | 9,600 | 3,300 |
| 36 | 9,000 | 3,100 |
| 48 | 8,300 | 2,900 |
| 60 | 7,500 | 2,700 |
| 72 | 6,600 | 2,400 |
| 84 | 5,600 | 2,200 |
| 96 | 4,500 | 1,900 |
| 108 | 3,600 | 1,600 |
| 120 | 2,900 | 1,400 |
| 144 | 2,000 | 1,100 |

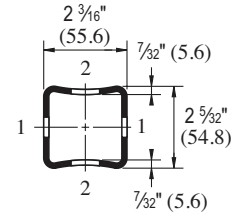
P16F - COLUMN LOADING (METRIC)

| Unbraced Height mm | Max. Allowable Load Column Loaded at C.G. kN | Max. Allowable Load Column Loaded at Slot Face kN |
|--------------------|--|---|
| 610 | 42.7 | 14.7 |
| 914 | 40.0 | 13.8 |
| 1,219 | 36.9 | 12.9 |
| 1,524 | 33.4 | 12.0 |
| 1,829 | 29.4 | 10.7 |
| 2,134 | 24.9 | 9.8 |
| 2,438 | 20.0 | 8.5 |
| 2,743 | 16.0 | 7.1 |
| 3,048 | 12.9 | 6.2 |
| 3,658 | 8.9 | 4.9 |

P21H



Slot spacing
1/4" (31.8)
on center.



Tubing Finishes: PL, GR, HG, PG;
Standard Lengths: 10' & 20'

Wt/100 Ft: 297 Lbs (440 kg/100 m)
Allowable Moment 11,370 In-Lbs (540 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P21H - COLUMN LOADING

| Unbraced Height In | Max. Allowable Load Column Loaded at C.G. Lbs | Max. Allowable Load Column Loaded at Slot Face Lbs |
|--------------------|---|--|
| 24 | 17,700 | 6,200 |
| 36 | 16,900 | 6,000 |
| 48 | 16,000 | 5,700 |
| 60 | 15,000 | 5,400 |
| 72 | 13,900 | 5,100 |
| 84 | 12,600 | 4,700 |
| 96 | 11,300 | 4,300 |
| 108 | 9,900 | 3,900 |
| 120 | 8,300 | 3,500 |
| 144 | 5,800 | 2,800 |
| 168 | 4,230 | 2,300 |

P21H - COLUMN LOADING (METRIC)

| Unbraced Height mm | Max. Allowable Load Column Loaded at C.G. kN | Max. Allowable Load Column Loaded at Slot Face kN |
|--------------------|--|---|
| 610 | 78.7 | 27.6 |
| 914 | 75.2 | 26.7 |
| 1,219 | 71.2 | 25.4 |
| 1,524 | 66.7 | 24.0 |
| 1,829 | 61.8 | 22.7 |
| 2,134 | 56.0 | 20.9 |
| 2,438 | 50.3 | 19.1 |
| 2,743 | 44.0 | 17.3 |
| 3,048 | 36.9 | 15.6 |
| 3,658 | 25.8 | 12.5 |
| 4,267 | 18.8 | 10.2 |

P16F - BEAM LOADING

| 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 |
| 24 | 1,600 | 0.06 | 1,600 | 1,600 | 1,600 |
| 36 | 1,070 | 0.13 | 1,070 | 1,070 | 820 |
| 48 | 800 | 0.23 | 800 | 690 | 460 |
| 60 | 640 | 0.36 | 590 | 440 | 290 |
| 72 | 530 | 0.52 | 410 | 310 | 200 |
| 84 | 460 | 0.71 | 300 | 220 | 150 |
| 96 | 400 | 0.93 | 230 | 170 | 110 |
| 108 | 360 | 1.18 | 180 | 140 | 90 |
| 120 | 320 | 1.45 | 150 | 110 | 70 |
| 144 | 270 | 2.09 | 100 | 80 | 50 |
| 168 | 230 | 2.85 | 70 | 60 | 40 |

P21H - BEAM LOADING

| 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 |
| 24 | 3,790 | 0.05 | 3,790 | 3,790 | 3,790 |
| 36 | 2,530 | 0.11 | 2,530 | 2,530 | 2,380 |
| 48 | 1,900 | 0.19 | 1,900 | 1,900 | 1,340 |
| 60 | 1,520 | 0.29 | 1,520 | 1,280 | 860 |
| 72 | 1,260 | 0.42 | 1,190 | 890 | 590 |
| 84 | 1,080 | 0.58 | 870 | 660 | 440 |
| 96 | 950 | 0.76 | 670 | 500 | 330 |
| 108 | 840 | 0.96 | 530 | 400 | 260 |
| 120 | 760 | 1.18 | 430 | 320 | 210 |
| 144 | 630 | 1.70 | 300 | 220 | 150 |
| 168 | 540 | 2.31 | 220 | 160 | 110 |

P16F - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|---------|-------------------------------|--------------------------|-------------------------------|-------------|-------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 7.2 | 1 | 7.2 | 7.2 | 7.2 |
| 750 | 5.8 | 2 | 5.8 | 5.8 | 5.4 |
| 1,000 | 4.3 | 4 | 4.3 | 4.3 | 3.0 |
| 1,250 | 3.5 | 6 | 3.5 | 2.9 | 1.9 |
| 1,500 | 2.9 | 9 | 2.7 | 2.0 | 1.4 |
| 1,750 | 2.5 | 12 | 2.0 | 1.5 | 1.0 |
| 2,000 | 2.2 | 16 | 1.5 | 1.1 | 0.8 |
| 2,500 | 1.7 | 25 | 1.0 | 0.7 | 0.5 |
| 3,000 | 1.5 | 36 | 0.7 | 0.5 | 0.3 |
| 3,500 | 1.2 | 49 | 0.5 | 0.4 | 0.2 |
| 4,000 | 1.1 | 64 | 0.4 | 0.3 | 0.2 |

P21H - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|---------|-------------------------------|--------------------------|-------------------------------|-------------|-------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 17.1 | 1 | 17.1 | 17.1 | 17.1 |
| 750 | 13.7 | 2 | 13.7 | 13.7 | 13.7 |
| 1,000 | 10.3 | 3 | 10.3 | 10.3 | 8.8 |
| 1,250 | 8.2 | 5 | 8.2 | 8.2 | 5.7 |
| 1,500 | 6.9 | 7 | 6.9 | 5.9 | 3.9 |
| 1,750 | 5.9 | 10 | 5.8 | 4.3 | 2.9 |
| 2,000 | 5.1 | 13 | 4.4 | 3.3 | 2.2 |
| 2,500 | 4.1 | 20 | 2.8 | 2.1 | 1.4 |
| 3,000 | 3.4 | 29 | 2.0 | 1.5 | 1.0 |
| 3,500 | 2.9 | 40 | 1.4 | 1.1 | 0.7 |
| 4,000 | 2.6 | 52 | 1.1 | 0.8 | 0.5 |

Notes:

1. Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.

P16F - ELEMENTS OF SECTION

| Parameter | P16F | P16F (metric) |
|------------------------|-----------------------|----------------------|
| Area of Section | 0.416 In ² | 2.68 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 0.168 In ⁴ | 7.0 cm ⁴ |
| Section Modulus (S) | 0.192 In ³ | 3.1 cm ³ |
| Radius of Gyration (r) | 0.650 In | 1.7 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 0.210 In ⁴ | 8.7 cm ⁴ |
| Section Modulus (S) | 0.240 In ³ | 3.9 cm ³ |
| Radius of Gyration (r) | 0.725 In | 1.8 cm |

P21H - ELEMENTS OF SECTION

| Parameter | P21H | P21H (metric) |
|------------------------|-----------------------|----------------------|
| Area of Section | 0.749 In ² | 4.83 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 0.490 In ⁴ | 20.4 cm ⁴ |
| Section Modulus (S) | 0.455 In ³ | 7.5 cm ³ |
| Radius of Gyration (r) | 0.820 In | 2.1 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 0.590 In ⁴ | 24.6 cm ⁴ |
| Section Modulus (S) | 0.540 In ³ | 8.8 cm ³ |
| Radius of Gyration (r) | 0.900 In | 2.3 cm |



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

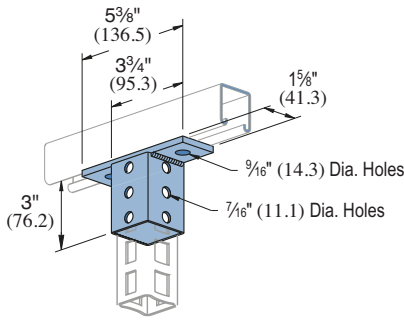
Electrical Fittings

Concrete Inserts

Solar

Unipier®

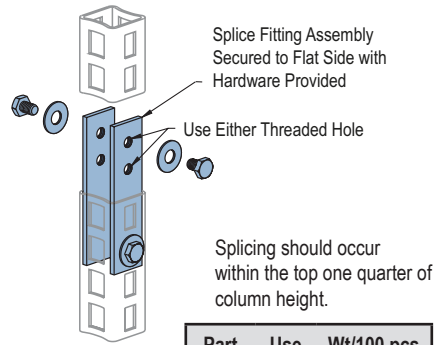
P2820, P2940 CHANNEL/TUBE CONNECTORS



| Part No. | Use With | Wt/100 pcs Lbs (kg) |
|----------|----------|---------------------|
| P2820 | P16F | 116 (2.6) |
| P2940 | P21H | 148 (67.1) |

P2822, P2932

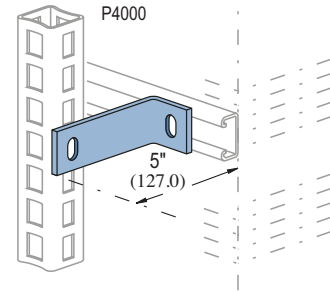
SPLICE FITTINGS



| Part No. | Use With | Wt/100 pcs Lbs (kg) |
|----------|----------|---------------------|
| P2822 | P16F | 97 (44.0) |
| P2932 | P21H | 122 (55.3) |

P2823

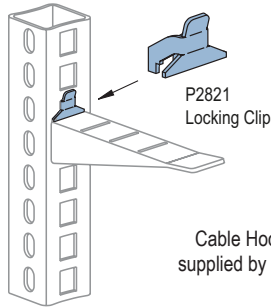
90° RACK FITTING



Wt/100 pcs: 66 Lbs (29.9 kg)

P2821

LOCKING CLIP



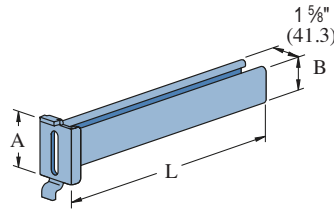
Cable Hook supplied by others.

Exclusive Cable Hook
Locking Clip prevents Cable Hook removal.

Wt/100 pcs: 3 Lbs (1.4 kg)

P2928, P2929 AND P2930

CABLE BRACKETS



Use with P16F or P21H.

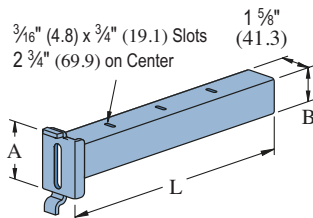
Material: 12 gauge steel.

| Part Number | "L" In (mm) | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) | Uniform Design Load Lbs (kN) |
|-------------|-------------|---------------|---------------|---------------------|------------------------------|
| P2928 | 6 152.4 | 3 1/2 88.9 | 7/8 22.2 | 92 41.7 | 500 2.22 |
| P2929 | 12 304.8 | 3 1/2 88.9 | 1 1/2 41.3 | 320 145.1 | 250 1.11 |
| P2930 | 18 457.2 | 3 1/2 88.9 | 1 1/2 41.3 | 420 190.5 | 170 0.76 |

Safety factor of 3.

P2920 THRU P2924

CABLE BRACKETS



Use with P16F or P21H.

Material: 12 gauge steel.

| Part Number | "L" In (mm) | "A" In (mm) | "B" In (mm) | Wt/100 pcs Lbs (kg) | Uniform Design Load Lbs (kN) |
|-------------|-----------------|---------------|---------------|---------------------|------------------------------|
| P2920 | 5 1/2 139.7 | 3 1/2 88.9 | 7/8 22.2 | 90 40.8 | 500 2.22 |
| P2921 | 8 1/4 209.6 | 3 1/2 88.9 | 7/8 22.2 | 120 54.4 | 325 1.45 |
| P2922 | 11 279.4 | 3 1/2 88.9 | 1 1/2 41.3 | 300 136.1 | 275 1.22 |
| P2923 | 13 3/4 349.3 | 3 1/2 88.9 | 1 1/2 41.3 | 340 154.2 | 220 0.98 |
| P2924 | 19 1/4 489.0 | 3 1/2 88.9 | 1 1/2 41.3 | 430 195.0 | 160 0.71 |

Safety factor of 3.

U.L. LISTED

Unistrut channel is listed by Underwriters' Laboratories as a surface metal raceway. Snap-in closure strip is used to complete the raceway. Accessory parts listed by Underwriters are noted on drawings. The following tables represent maximum number of conductors when raceway is not employed with fixtures or where the clearance between fixtures and raceway is greater than 1/2" (12.7). In all cases the snap-in cover is required to complete raceway enclosure.

P3300

| Gauge | Number and Conductor Size (AWG) | | | | |
|------------|---------------------------------|----|----|---|---|
| | 14 | 12 | 10 | 8 | 6 |
| THWN, THHN | 40 | 30 | 19 | 9 | 6 |
| XHHW | 26 | 21 | 16 | 7 | 5 |
| T, TW | 26 | 20 | 15 | 7 | 4 |
| THW | 17 | 14 | 11 | 6 | 4 |
| RH | 15 | 12 | 7 | 4 | 3 |
| RHH, RHW | 10 | 9 | 7 | 4 | 2 |

P1000, & -KO, P1100 & -KO

| Gauge | Number and Conductor Size (AWG) | | | | |
|------------|---------------------------------|----|----|----|----|
| | 14 | 12 | 10 | 8 | 6 |
| THWN, THHN | 88 | 66 | 42 | 20 | 14 |
| XHHW | 58 | 46 | 35 | 16 | 12 |
| T, TW | 57 | 44 | 34 | 16 | 9 |
| THW | 37 | 30 | 24 | 12 | 9 |
| RH | 33 | 27 | 16 | 9 | 6 |
| RHH, RHW | 23 | 20 | 16 | 9 | 6 |

| Channel Part Number | Channel Size and Inside Area | | | |
|------------------------|------------------------------|----------------|----------------|--------------|
| | Size | Area | 40% Area | 25% Area |
| P3300 & KO | 1 5/8" x 7/8" | 0.975 629 | 0.390 252 | 0.244 157 |
| P3000 & KO | 1 5/8" x 1 1/8" | 1.677 1,082 | 0.671 433 | 0.419 270 |
| P1000 & KO, P1100 & KO | 1 5/8" x 1 5/8" | 2.028 1,308 | 0.811 523 | 0.507 327 |
| P5500 & KO | 1 5/8" x 2 1/16" | 3.169 2,045 | 1.268 818 | 0.792 511 |
| P5000 & KO | 1 5/8" x 3/4" | 4.308 2,779 | 1.723 1,112 | 1.077 695 |

C.S.A. APPROVED

Suitable for number of wires in Column A when installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 75° C except wire suitable for 60° C may be used when clearance between fixtures and raceways is at least 1/2" (12.7). Also suitable for number of wires in column B when

P3000, & -KO

| Gauge | Number and Conductor Size (AWG) | | | | |
|------------|---------------------------------|----|----|----|----|
| | 14 | 12 | 10 | 8 | 6 |
| THWN, THHN | 72 | 54 | 34 | 17 | 12 |
| XHHW | 48 | 37 | 29 | 13 | 10 |
| T, TW | 46 | 36 | 28 | 13 | 7 |
| THW | 30 | 25 | 20 | 10 | 7 |
| RH | 27 | 22 | 13 | 7 | 5 |
| RHH, RHW | 19 | 16 | 13 | 7 | 5 |

P5500, & -KO

| Gauge | Number and Conductor Size (AWG) | | | | |
|------------|---------------------------------|-----|----|----|----|
| | 14 | 12 | 10 | 8 | 6 |
| THWN, THHN | 141 | 105 | 66 | 33 | 23 |
| XHHW | 93 | 73 | 57 | 27 | 19 |
| T, TW | 91 | 58 | 55 | 26 | 15 |
| THW | 59 | 49 | 39 | 20 | 15 |
| RH | 53 | 44 | 26 | 14 | 10 |
| RHH, RHW | 37 | 32 | 26 | 14 | 10 |

P5000, & -KO

| Gauge | Number and Conductor Size (AWG) | | | | |
|------------|---------------------------------|-----|----|----|----|
| | 14 | 12 | 10 | 8 | 6 |
| THWN, THHN | 193 | 105 | 91 | 45 | 32 |
| XHHW | 128 | 101 | 78 | 37 | 27 |
| T, TW | 125 | 98 | 75 | 35 | 20 |
| THW | 81 | 67 | 54 | 28 | 20 |
| RH | 73 | 60 | 36 | 19 | 13 |
| RHH, RHW | 51 | 44 | 36 | 19 | 13 |

Note:

Raceways with external joiners shall use a 40% wire fill calculation to determine the number of conductors permitted.

Raceways with internal joiners shall use a 25% wire fill calculation to determine the number of conductors permitted

Also UL Listed

P1001, P1101, P3001, P3301, P5001 & P5501

installed to support electric discharge type lighting fixtures when raceway wiring is suitable for at least 75° C and clearance between fixtures and raceway is at least 1/2" (3.2).

Maximum number of wires for types T, THHN, THW, THWN, TW, R, RH, RHH, RHW or XHHW

| Raceway Wire Size AWG | P1000, &-KO P1100, &-KO | | P3000, &-KO | | P3300 | | P5000 &-KO | | P5500, &-KO | |
|-----------------------|----------------------------|----|-------------|----|-------|---|------------|----|-------------|----|
| | A | B | A | B | A | B | A | B | A | B |
| | 14 | 6 | 10 | 5 | 10 | 4 | 6 | 10 | 10 | 10 |
| 12 | 6 | 10 | 4 | 10 | 3 | 6 | 10 | 10 | 10 | 10 |
| 10 | 5 | 8 | 4 | 6 | - | - | 8 | 10 | 8 | 10 |
| 8 | 4 | 6 | 3 | 4 | - | - | 6 | 9 | 6 | 8 |
| 6 | 2 | 3 | 2 | 2 | - | - | 4 | 6 | 4 | 6 |

Unistrut channels are also certified by Canadian Standards Association.



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

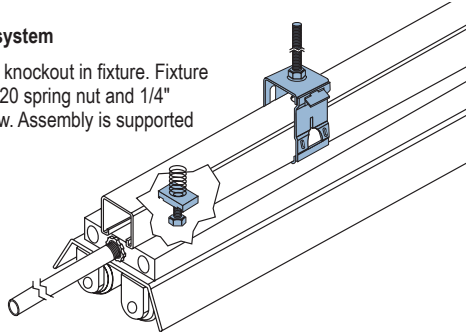
Solar

Unipier®

FLUORESCENT FIXTURES - SUPPORT APPLICATIONS

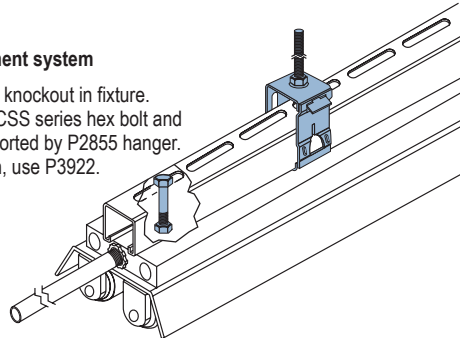
Spring-Nut attachment system

Conduit connects through knockout in fixture. Fixture is supported by P1006-1420 spring nut and 1/4" round head machine screw. Assembly is supported by P2855 hinged hanger.



Slotted channel attachment system

Conduit connects through knockout in fixture. Fixture is supported by HCSS series hex bolt and hex nut. Raceway is supported by P2855 hanger. To splice a continuous run, use P3922.



RECOMMENDED SUPPORT SPACING FOR FIXTURES

Deflections are based on continuity of span and use of 4 ft. fixtures weighing approximately 30 lbs. each. Do not use joiner fittings between supporting hangers. When using knock-out or slotted channels deflections will be increased approximately 5%. With fixtures spaced 2' - 0" apart, deflection is 60-70% of table. When spaced 4' - 0" apart, deflection is 50-60% of table.

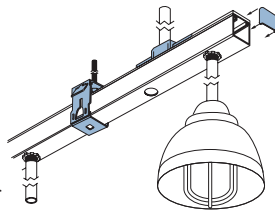
Deflection Table

| Channel | Distance Between Supports - In (mm) | | | | | | | | |
|---------|-------------------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 8' (2.4m) | 10' (3m) | 12' (3.7m) | 14' (4.3m) | 16' (4.9m) | 18' (5.5m) | 20' (6.1m) | 22' (6.7m) | 24' (7.3m) |
| P3300 | 0.187 4.7 | - | - | - | - | - | - | - | - |
| P3000 | 0.100 | 0.250 6.4 | 0.500 12.7 | - | - | - | - | - | - |
| P1100 | 0.088 2.2 | 0.250 6.4 | 0.437 11.1 | 0.875 22.2 | - | - | - | - | - |
| P1000 | - | 0.180 4.6 | 0.312 7.9 | 0.625 15.9 | 1.000 25.4 | 1.625 41.3 | - | - | - |
| P5500 | - | - | - | 0.250 6.4 | 0.500 12.7 | 0.812 20.6 | 1.620 41.1 | - | - |
| P5000 | - | - | - | - | 0.310 7.9 | 0.625 15.9 | 1.000 25.4 | 1.800 45.7 | 2.500 63.5 |
| P1001 | - | - | - | - | 0.310 7.9 | 0.625 15.9 | 1.000 25.4 | 1.800 45.7 | 2.500 63.5 |
| P5001 | - | - | - | - | - | 0.200 5.1 | 0.250 6.4 | 0.400 10.2 | 0.500 12.7 |

HIGH-BAY FIXTURE RACEWAY APPLICATIONS

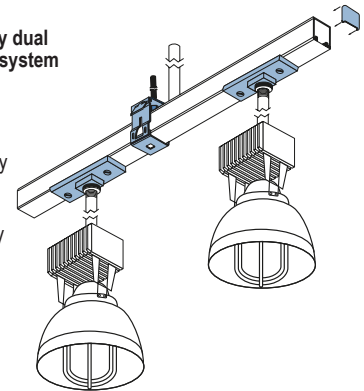
H.I.D. Knockout mounted system

Fixture attached to and wired from raceway by 1/2" nipple assembly of desired length at channel knockout. P1280W end cap, P3184 closure strip, P2535 conduit connector, and P2855 channel hanger complete assembly. For splicing channels into continuous raceway runs, use joiner fitting P3922.

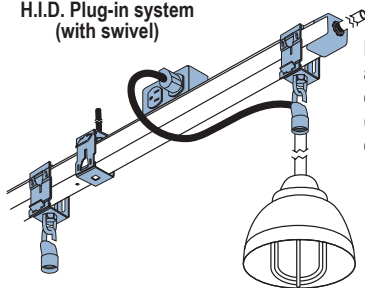


High-Bay dual mounted system

Fixtures are connected to and wired from raceway by conduit connector fitting P2536. Raceway is supported by P2855 hanger. P1280W end caps and P3184 closure strip complete the assembly. Conduit connected to raceway through channel knockout.



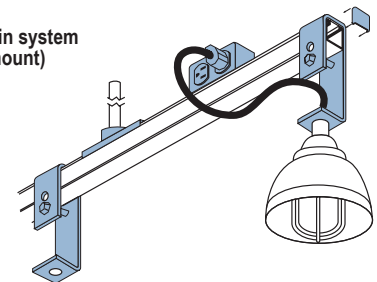
H.I.D. Plug-in system (with swivel)



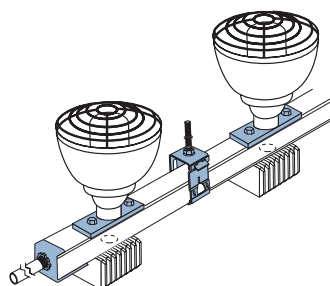
P2855 hangers support raceway and P251-75 end connector joins conduit raceway. P1280W end caps (not shown) and P3184 closure strip complete assembly.

H.I.D. Plug-in system (rigid mount)

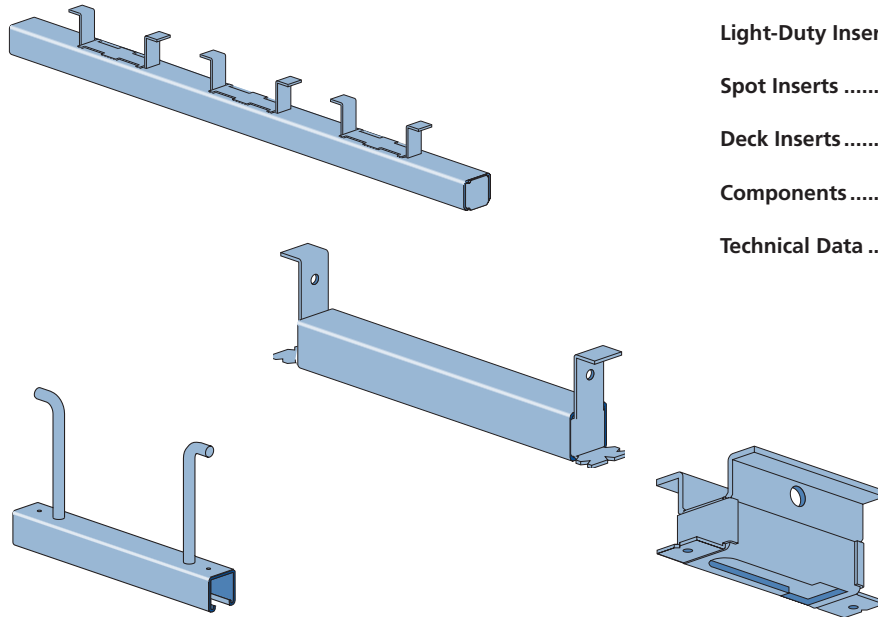
Raceway is supported and wired by top mounted P2535 conduit connectors. P1280W end caps and P3184 closure strip complete assembly.



Uplighting with underhung or remote ballast



Fixtures attached to and wired from P2535 conduit fittings mounted to slot side of channel. Raceway can be wired by P2521 as shown or, conduit can enter through available knockout. Ballasts in P2521 are connected at the knockout by fixture adapter. In remote ballast installations, follow manufacturers instructions. P2855 hinged hangers support both types of installations. P3184 closure strip and P1280W end caps complete assembly. For continuous raceways, use joiner fitting P3922. P2521-75 end connector joins conduit to raceway.



| | |
|----------------------------|----------|
| Heavy-Duty Inserts | 141 |
| Standard-Duty Inserts..... | 142, 144 |
| Light-Duty Inserts | 143 |
| Spot Inserts | 144 |
| Deck Inserts | 145 |
| Components | 145 |
| Technical Data | 146 |

MATERIAL

Cold-formed inserts are manufactured from standard 12 gauge (2.7 mm) Unistrut channel sections conforming to ASTM A1011 SS GR 33 or ASTM A653 GR 33, unless otherwise noted.

To inhibit concrete seepage, all inserts (except spot inserts) are provided with closure strips and end caps or foam filler, unless otherwise requested.

Most concrete inserts are available in stainless steel on special order. Consult factory for ordering information.

APPLICATION

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

FINISHES

Cold-formed, standard-duty, light-duty and spot concrete inserts are available in:

Hot dipped galvanized (HG), conforming to ASTM A123 or A153;

Pre-galvanized (PG), conforming to ASTM A653 GR 33

Plain (PL)

DESIGN LOAD

Design loads, where shown, are based on 3,000 PSI concrete, unless noted.

STANDARD LENGTHS

Insert lengths range from 3 inches (76.2 mm) to 20 feet (6.10m) with a tolerance of $\pm 1/4$ -inch (6.4mm).

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parentheses or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

Custom-designed inserts are available on special order. Consult factory for ordering information.



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

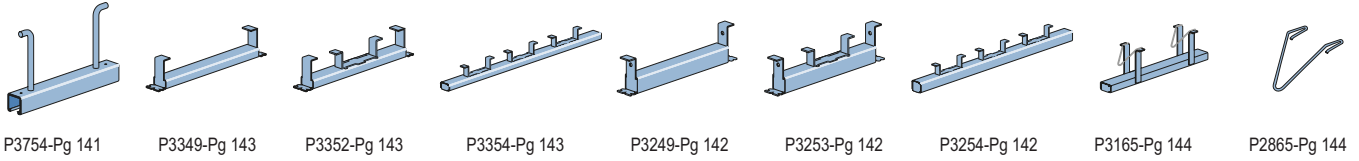
Concrete Inserts

Solar

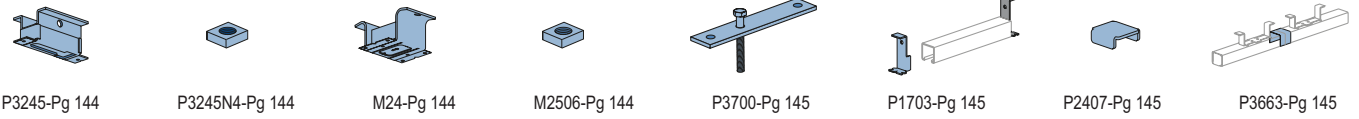
Unipier®

Heavy Duty Light Duty

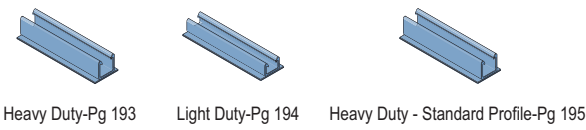
Standard Duty



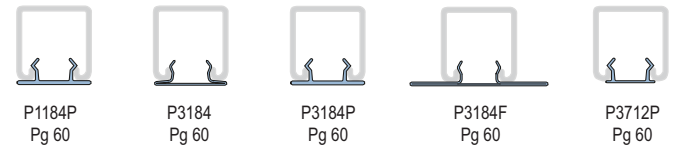
Spot Inserts and Components



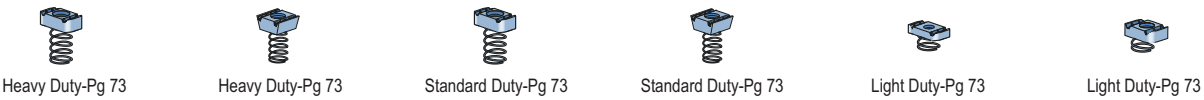
Fiberglass Concrete Inserts



Closure Strips

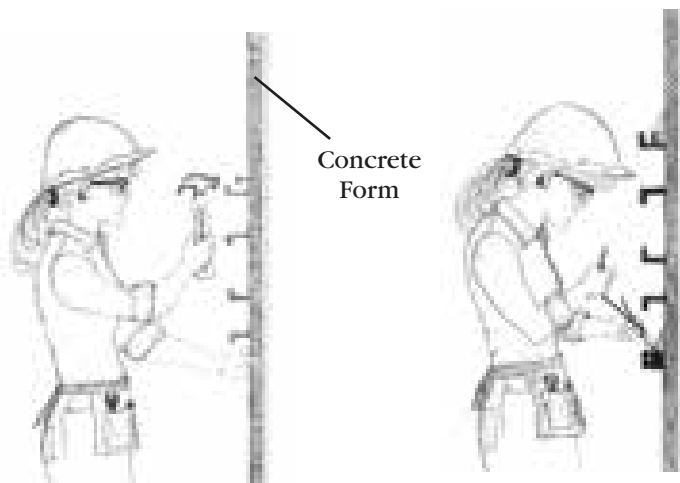


Channel Nuts

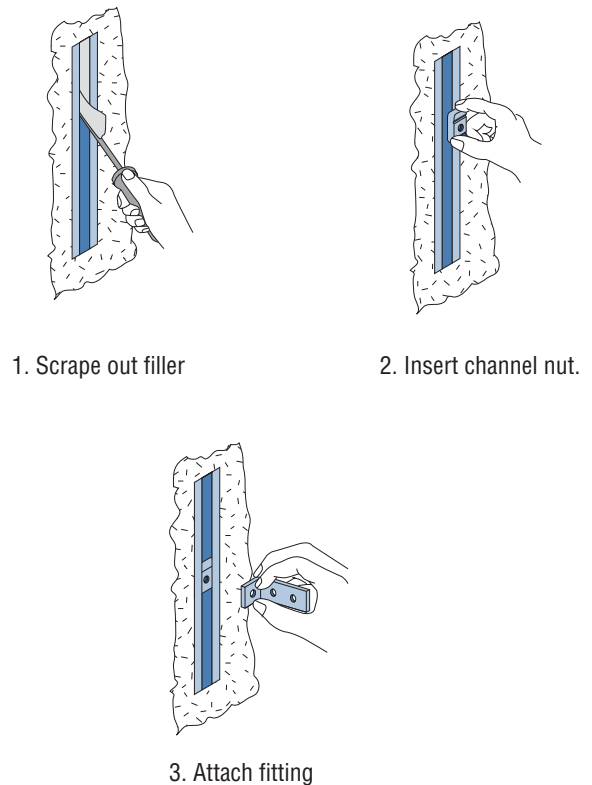


INSTALLING CONCRETE INSERTS

1. Nail insert to concrete form using prepunched nail holes
2. Attach rebars to flanges on insert



USING INSTALLED CONCRETE INSERT



The Unistrut concrete insert is firmly fixed to the concrete side of the form before pouring. When the forms are removed, the insert is ready for use. Brackets and other components can be attached at any point of the continuous entry channel.

P3246

- Up to 5,700 lbs. tension capacity in 3,000 psi concrete
- Sizes available to accept threaded rod from ¾" to 1-½"
- Fiberglass rods to interface with the rebar or reinforcing rods, reducing the potential for a galvanic interaction
- 316 Stainless steel body with fiberglass rods to prevent corrosion
- Meets several industry and federal specifications, including: A-A-1192A (Type 18), WW-H-171-E (Type 18), ANSI/MSS SP-69 and MSS SP-58 (Type 18)



P3246 Installed

| Part Number | Threaded Hole Size ^a | Maximum Allowable Load (lbs.) | | |
|--------------|---------------------------------|-------------------------------|--------------------|----------|
| | | Vertical | Shear ^b | 45° Pull |
| P3246-75 ST | ¾" - 10 | 3,230 ^a | 1,930 | 2,740 |
| P3246-87 ST | 7/8" - 9 | 4,480 ^a | 2,680 | 3,800 |
| P3246-1 ST | 1" - 8 | 5,700 | 3,540 | 5,000 |
| P3246-125 ST | 1¼" - 7 | 5,700 | 5,700 | 6,000 |
| P3246-150 ST | 1½" - 6 | 5,700 | 8,280 | 6,000 |

Safety Factor of 5 in 3,000 psi concrete

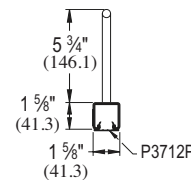
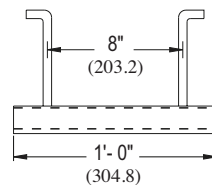
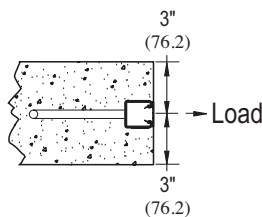
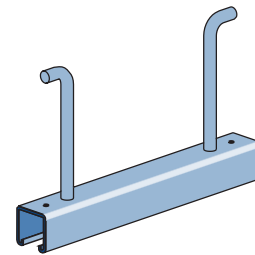
^a Limited by Threaded Rod Safe Load in accordance with MSS-SP-58

^b Limited by MSS-SP-58 Tension Safe Load multiplied by 0.6

P3754

1½" x 1⅝" CHANNEL

- Closure strip P3712 P and a styrene bead end cap that fits inside the channel to inhibit concrete seepage are included.
- The recommended design load when used for curtain wall anchorage is 5,000 pounds and is based on use in average, good concrete. The design load includes ⅓ increase in load as permitted by AISI Specifications and Uniform Building Code when stresses are produced by wind or earthquake and other loads.
- The recommended design load is based on using two P1010 nuts at no less than 3" O.C. and no closer than 2" to either end of the insert. The distance between the insert centerline and the concrete edge must be a minimum of 3".
- All nuts and fittings for P3200 series concrete inserts will fit.
- Material: Cold formed from 12 Ga. (2.7mm) steel conforming to ASTM A1011 SS GR 33 or ASTM A653 GR 33 A.
- Finish: Choice of hot-dipped galvanized (HG) conforming to ASTM A123 or A153, or pre-galvanized (PG) conforming to ASTM A653-G90.



| Part Number | Insert Length ±¼" (6.4mm) In (mm) | Wt/100 pcs Lbs (kg) | Max. Anchor Spacing In (mm) | Max. Allowable Point Load Lbs (kN) | Spacing of Point Loads In (mm) | Max. Allowable Uniform Load Lbs (kN) |
|-------------|---|---------------------------|--------------------------------|---------------------------------------|-----------------------------------|---|
| P3754 | 12 304.8 | 210 95.3 | 8 203.2 | 2,500 11.12 | 3 76.2 | 5,000 22.24 |

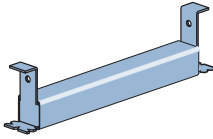
Safety factor 3



P3200 SERIES

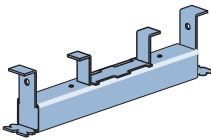
1 1/8" x 1 3/8" CHANNEL PG HG

P3249 thru P3252



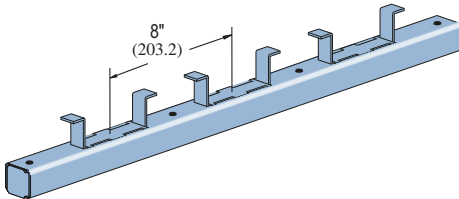
"NC" Suffix – No Closure Strip, With End Caps
 "WC" Suffix – With Closure Strip & End Caps

P3253

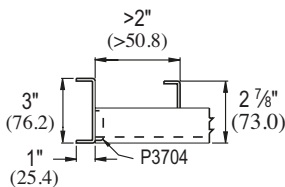
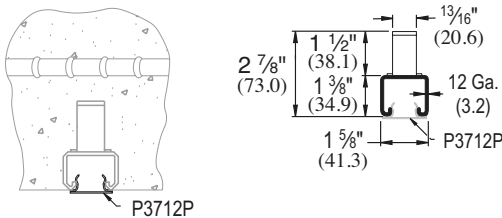


"NC" Suffix – No Closure Strip, With End Caps & Back Plates
 "WC" Suffix – With Closure Strip, End Caps & Back Plates

P3254 thru P3270



"NC" Suffix – No Closure Strip, W/End Caps & Back Plates
 "WC" Suffix – W/Closure Strip, End Caps & Back Plates
 "X" – No Closure Strip, No End Caps, W/Back Plates



- Includes closure and end caps unless otherwise requested.
- P3280 end cap used when distance to first anchor is up to 2" (51 mm).
- P3704 end cap is used when end distance to first anchor is over 2" (51 mm).
- Nail or anchor inserts to forms every 16" (406.4 mm) to 24" (609.6 mm).
- Anchors are 8" (203.2 mm) on center.
- Material: Cold formed from 12 Ga. (3) steel conforming to ASTM A1011 SS GR 33 or ASTM A653 GR 33. A. Stainless steel available on special order.
- Finish: Choice of hot-dipped galvanized (HG) conforming to ASTM A123 or A153, or pre-galvanized (PG) conforming to ASTM A653-G90.

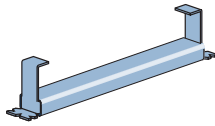
| Part Number | Insert Length In/Ft (mm) | Wt/100 pcs Lbs (kg) | Max. Allowable Point Load Lbs (kN) | Min. Spacing of Pt. Loads In (mm) | Max. Allowable Uniform Load Lbs (kN) |
|-------------|-----------------------------|---------------------------|---|--|---|
| P3249 | 3" 76.2 | 85 39 | 500 2.22 | — | 500 2.22 |
| P3250 | 4" 101.6 | 100 45 | 800 3.56 | — | 800 3.56 |
| P3251 | 6" 152.4 | 130 59 | 1,000 4.45 | — | 1,000 4.45 |
| P3252 | 8" 203.2 | 159 72 | 1,200 5.34 | — | 1,200 5.34 |
| P3253 | 12" 304.8 | 227 103 | 2,000 8.90 | — | 2,000 8.90 |
| P3254 | 16" 406.4 | 270 122 | 2,000 8.90 | 12 304.8 | 4,000 17.79 |
| P3255 | 20" 508.0 | 357 162 | 2,000 8.90 | 12 304.8 | 4,000 17.79 |
| P3256 | 24" 609.6 | 399 181 | 2,000 8.90 | 12 304.8 | 4,000 17.79 |
| P3257 | 32" 812.8 | 527 239 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3257A | 36" 914.4 | 616 279 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3258 | 40" 1,016.0 | 661 300 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3259 | 4' 1,219.2 | 786 357 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3260 | 5' 1,524.0 | 1,003 455 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3261 | 6' 1,828.8 | 1,173 532 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3262 | 7' 2,133.6 | 1,390 630 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3263 | 8' 2,438.4 | 1,560 708 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3264 | 9' 2,743.2 | 1,741 790 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3265 | 10' 3,048.0 | 1,947 883 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3266 | 12' 3,657.6 | 2,334 1,059 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3267 | 14' 4,267.2 | 2,717 1,232 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3268 | 16' 4,876.8 | 3,116 1,413 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3269 | 18' 5,486.4 | 3,530 1,601 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |
| P3270 | 20' 6,096.0 | 3,882 1,761 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 (kg/m) |

Safety factor 3.

P3300 SERIES

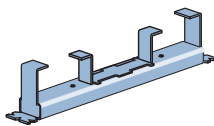
1 5/8" x 7/8" CHANNEL PG HG

P3349 thru P3351



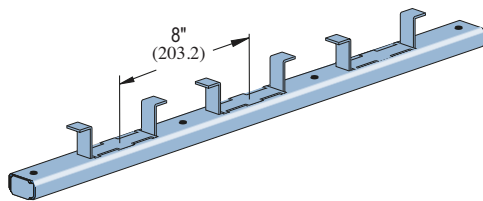
"NC" Suffix – No Closure Strip, With End Caps
 "WC" Suffix – With Closure Strip & End Caps

P3352 thru P3353

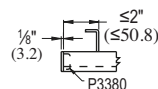
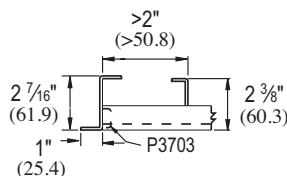
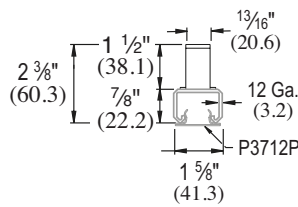
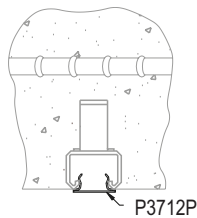


"NC" Suffix – No Closure Strip, With End Caps & Back Plates
 "WC" Suffix – With Closure Strip, End Caps & Back Plates

P3354 thru P3370



"NC" Suffix – No Closure Strip, W/End Caps & Back Plates
 "WC" Suffix – W/Closure Strip, End Caps & Back Plates
 "X" – No Closure Strip, No End Caps, W/Back Plates



- Includes closure and end caps unless otherwise requested.
- P3380 end cap used when distance to first anchor is up to 2" (51 mm).
- P3703 end cap is used when end distance to first anchor is over 2" (51 mm).
- Nail or anchor inserts to forms every 16" (406.4 mm) to 24" (609.6 mm).
- Anchors are 8" (203.2 mm) on center.
- Material: Cold formed from 12 Ga. (3 mm) steel conforming to ASTM A1011 SS GR. 33 or A653 GR 33. A. Stainless steel available on special order.
- Finish: Choice of hot-dipped galvanized (HG) conforming to ASTM A123 or A153, or pre-galvanized (PG) conforming to ASTM A653-G90.

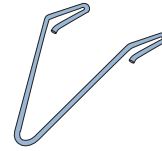
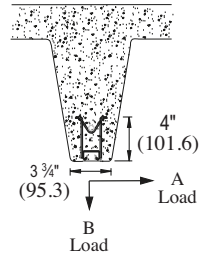
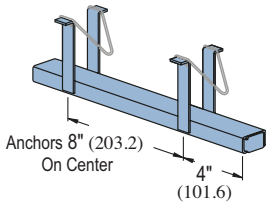
| Part Number | Insert Length In/Ft. (mm) | Wt/100 pcs Lbs (kg) | Max. Allowable Point Load Lbs (kN) | Min. Spacing of Pt. Loads In (mm) | Max. Allowable Uniform Load Lbs (kN) |
|-------------|------------------------------|---------------------------|---|--|---|
| P3349 | 3" 76.2 | 68 31 | 400 1.78 | — | 400 1.78 |
| P3350 | 4" 101.6 | 81 37 | 500 2.22 | — | 500 2.22 |
| P3351 | 6" 152.4 | 102 46 | 750 3.34 | — | 750 3.34 |
| P3352 | 8" 203.2 | 122 55 | 1,000 4.45 | — | 1,000 4.45 |
| P3353 | 12" 304.8 | 174 79 | 1,500 6.67 | — | 1,500 6.67 |
| P3354 | 16" 406.4 | 185.0 84 | 1,500 6.67 | 12 304.8 | 3,000 13.34 |
| P3355 | 20" 508.0 | 231 105 | 1,500 6.67 | 12 304.8 | 3,000 13.34 |
| P3356 | 24" 609.6 | 277 126 | 1,500 6.67 | 12 304.8 | 3,000 13.34 |
| P3357 | 32" 812.8 | 370 168 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3357A | 36" 914.4 | 416 189 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3358 | 40" 1,016.0 | 463 210 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3359 | 4' 1,219.2 | 555 252 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3360 | 5' 1,524.0 | 694 315 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3361 | 6' 1,828.8 | 832 377 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3362 | 7' 2,133.6 | 971 440 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3363 | 8' 2,438.4 | 1,110 503 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3364 | 9' 2,743.2 | 1,249 567 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3365 | 10' 3,048.0 | 1,387 629 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3366 | 12' 3,657.6 | 1,665.0 755 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3367 | 14' 4,267.2 | 1,942 881 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3368 | 16' 4,876.8 | 2,220 1,007 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3369 | 18' 5,486.4 | 2,497 1,133 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |
| P3370 | 20' 6,096.0 | 2,775 1,259 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 (kg/m) |

Safety factor 3.



P3165 SERIES

1 5/8" x 7/8" CHANNEL



"X" Suffix – No Closure Strip, No End Caps
 "WC" Suffix – With Closure Strip & End Caps

| Part No. | Length Ft (M) | Wt/100 pcs Lbs (kg) |
|----------|---------------|---------------------|
| P3165 | 10 | 1,650 |
| | 3.05 | 748.4 |
| P3170 | 20 | 3,280 |
| | 6.10 | 1,487.8 |

Maximum allowable load/ft.

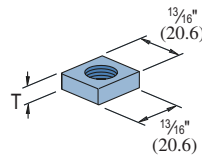
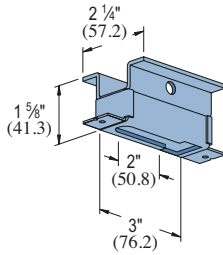
| Concrete | A Lbs (kN) | B Lbs (kN) |
|-----------|------------|------------|
| Light Wt | 425 | 800 |
| | 1.89 | 3.56 |
| Normal Wt | 500 | 1,000 |
| | 2.22 | 4.45 |

Safety factor 3.

Safety factor 3.

- Designed for use in prestressed concrete.
- Anchors 8" (203.2 mm) on center; first anchor 4" (101.6 mm) from end.
- Includes closure and end caps unless otherwise requested.
- Material: Cold formed from 12 Ga. (2.7 mm) steel conforming to ASTM A1011 SS GR 33 or ASTM A653 GR 33. A. Stainless steel available on special order.
- Finish: Choice of pre-galvanized (PG) conforming to ASTM A653-G90, or plain (PL).

P3245



Square Nut for P3245 Insert

| Part Number | Wt/100 pcs Lbs (kg) | Max. Allowable Pt. Load Lbs (kN) |
|-------------|---------------------|----------------------------------|
| P3245 | 54 | 1,000 |
| | 24.5 | 4.45 |

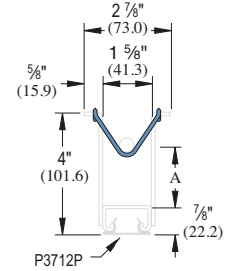
| Part Number | Size/Thread In | T In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------|------------|---------------------|
| P3245-N4 | 1/4" — 20 | 5/16" 7.9 | 6 2.7 |
| P3245-N6 | 3/8" — 16 | 5/16" 7.9 | 5 2.3 |
| HSQN050 | 1/2" — 13 | 7/16" 11.1 | 6 2.7 |

Finish: Pre-galvanized
 Safety factor of 3

- For 1/4", 3/8", or 1/2" size attachment or hanger rod.
- Insert nuts to be ordered separately.

P2865-10, -15, -20

HOLD-DOWN SPRINGS

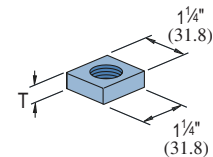
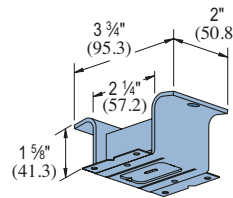


Finish: Plain

| Part Number | A In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-----------|---------------------|
| P2865-10 | 1 | 2 |
| | 25.4 | 0.9 |
| P2865-15 | 1 1/2 | 2 |
| | 38.1 | 0.9 |
| P2865-20 | 2 | 2 |
| | 50.8 | 0.9 |

M24

SPOT INSERT



Square Nut for M24

| Part Number | Wt/100 pcs Lbs (kg) | Max. Allowable Pt. Load Lbs (kN) |
|-------------|---------------------|----------------------------------|
| M24 | 52 | 800 |
| | 23.6 | 3.56 |

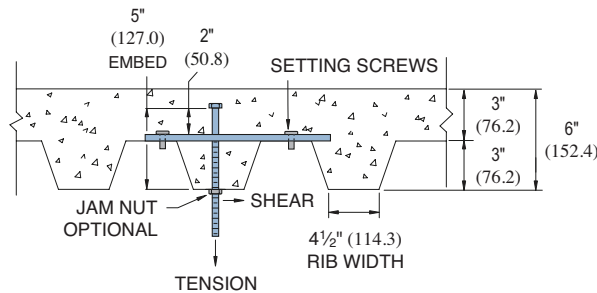
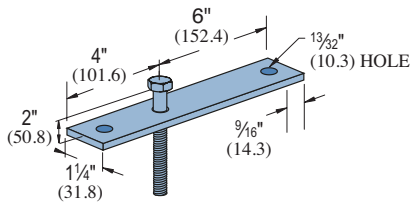
| Part Number | Size/Thread In | T In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|----------------|-----------|---------------------|
| M2506 | 1/4" — 20 | 1/4" 6.4 | 13 5.9 |
| M2508 | 3/8" — 16 | 3/8" 9.5 | 14 6.4 |
| M2510 | 1/2" — 13 | 1/2" 12.7 | 14 6.4 |
| M2512 | 5/8" — 11 | 1/2" 12.7 | 12 5.4 |
| M2523 | 3/4" — 10 | 1/2" 12.7 | 11 5.0 |
| M2524 | 7/8" — 9 | 1/2" 12.7 | 10 4.5 |

Finish: Electro-galvanized
 Safety factor of 5

- Ribs along sides of slot give extra strength to case.
- Insert nuts M2506 thru M2524 to be ordered separately.

P3700 SERIES

DECK INSERT



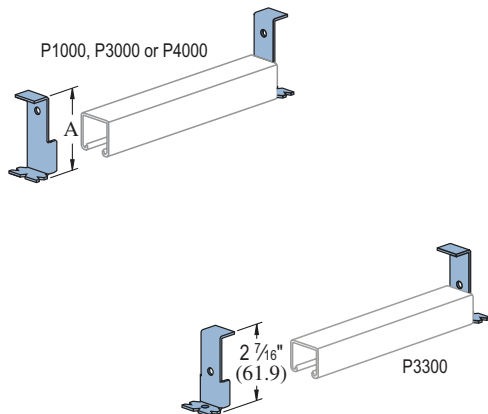
| Part Number | Rod Dia. In | Tension Load Lbs (kN) | Shear Load Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|-----------------------|---------------------|---------------------|
| P3700-37 | 3/8 | 850 3.78 | 600 2.67 | 89 40.4 |
| P3700-50 | 1/2 | 1,380 6.14 | 1000 4.45 | 111 50.3 |
| P3700-62 | 5/8 | 1920 8.54 | 1760 7.83 | 141 64.0 |

Notes:

1. Allowable loads have been determined by the manufacturer's testing, analysis, and technical specification.
2. Values are based on a safety factor of 5.
3. 20 Gauge Metal Deck

P1703, P1704, P3703, P3704, P4703

END CAP ANCHORS



| Part Number | Channel | "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|---------|-----------------|---------------------|
| P1703 | P1000 | 2 13/32 61.1 | 30 13.6 |
| P1704 | P1000 | 3 7/32 89.7 | 37 16.8 |
| P3703 | P3300 | 2 7/16 61.9 | 17 7.7 |
| P3704 | P3000 | 3 76.2 | 20 9.1 |
| P4703 | P4000 | 2 3/8 60.3 | 27 12.2 |

Note: End cap anchor for use with 1 1/8" wide standard Unistrut inserts only.

P2407, P3280, P3380

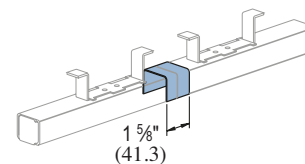
END CAPS



| Part Number | Fits Channel | Wt/100 pcs Lbs (kg) |
|-------------|--------------|---------------------|
| P2407 | P1000 | 10 4.5 |
| P3280 | P3000 | 8 3.6 |
| P3380 | P3300 | 5 2.3 |

P3663, P4663

JOINT COVERS



| Part Number | Use With Insert Series | Wt/100 pcs Lbs (kg) |
|-------------|------------------------|---------------------|
| P3663 | P3270 | 10 4.5 |
| P4663 | P3370 | 6 2.7 |

NOTE: Joint cover for use with 1 1/8" wide standard Unistrut inserts only.



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

Solar

Unipier®

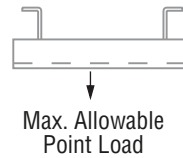
LOAD CHART BY LENGTH

| Part Number | Insert Length In (mm) | Wt/100 ft Lbs (kg) | Anchor Spacing In (mm) | Max. Allowable Point Load Lbs (kN) | Min. Spacing Between Pt. Loads In (mm) | Max. Allowable Uniform Load Lbs (kN) |
|-------------|-----------------------|--------------------|------------------------|------------------------------------|--|--------------------------------------|
| P3249 | 3 76.2 | 85 | 3 | 500 | - | 500 |
| | | 38.6 | 76.2 | 2.22 | - | 2.22 |
| P3349 | 4 101.6 | 68 | 3 | 400 | - | 400 |
| | | 30.8 | 76.2 | 1.78 | - | 1.78 |
| P3250 | 4 101.6 | 100 | 4 | 800 | - | 800 |
| | | 45.4 | 101.6 | 3.56 | - | 3.56 |
| P3350 | 4 101.6 | 81 | 4 | 500 | - | 500 |
| | | 36.7 | 101.6 | 2.22 | - | 2.22 |
| P3251 | 6 152.4 | 130 | 6 | 1,000 | - | 1,000 |
| | | 59.0 | 152.4 | 4.45 | - | 4.45 |
| P3351 | 6 152.4 | 102 | 6 | 750 | - | 750 |
| | | 46.3 | 152.4 | 3.34 | - | 3.34 |
| P3252 | 8 203.2 | 159 | 8 | 1,200 | - | 1,200 |
| | | 72.1 | 203.2 | 5.34 | - | 5.34 |
| P3352 | 8 203.2 | 122 | 8 | 1,000 | - | 1,000 |
| | | 55.3 | 203.2 | 4.45 | - | 4.45 |
| P3754 | 12 304.8 | 210 | 8 | 2,500 | 3 76.2 | 5,000 22.24 |
| | | 95.3 | 203.2 | 11.12 | - | - |
| P3253 | 12 304.8 | 227 | 4 | 2,000 | - | 2,000 |
| | | 103.0 | 101.6 | 8.90 | - | 8.90 |
| P3353 | 12 304.8 | 174 | 4 | 1,500 | - | 1,500 |
| | | 78.9 | 101.6 | 6.67 | - | 6.67 |
| P3254 | 16 406.4 | 270 | 4 | 2,000 | 12 304.8 | 4,000 17.79 |
| | | 122.5 | 101.6 | 8.90 | - | - |
| P3354 | 16 406.4 | 185 | 4 | 1,500 | 12 304.8 | 3,000 13.34 |
| | | 83.9 | 101.6 | 6.67 | - | - |
| P3255 | 20 508.0 | 357 | 4 | 2,000 | 12 304.8 | 4,000 17.79 |
| | | 161.9 | 101.6 | 8.90 | - | - |
| P3355 | 20 508.0 | 231 | 4 | 1,500 | 12 304.8 | 3,000 13.34 |
| | | 104.8 | 101.6 | 6.67 | - | - |
| P3256 | 24 609.6 | 399 | 4 | 2,000 | 12 304.8 | 4,000 17.79 |
| | | 181.0 | 101.6 | 8.90 | - | - |
| P3356 | 24 609.6 | 277 | 4 | 1,500 | 12 304.8 | 3,000 13.34 |
| | | 125.6 | 101.6 | 6.67 | - | - |

SPOT INSERT LOAD CHART

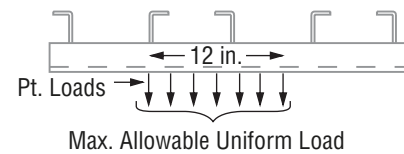
| Part Number | Wt/100 pcs Lbs (kg) | Anchor Spacing In (mm) | Max. Allowable Point Load Lbs (kN) |
|-------------|---------------------|------------------------|------------------------------------|
| P3246 | 414 187.8 | - | 5,700 25.35 |
| M26/M2812 | 54 24.5 | - | 1,500 6.67 |
| M3245 | 52 23.6 | - | 1,000 4.45 |
| M24/M2512 | 52 23.6 | - | 800 3.56 |

MAXIMUM ALLOWABLE POINT LOAD



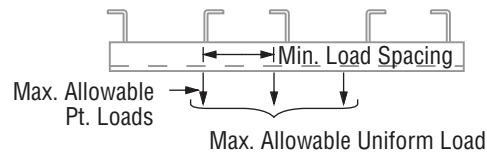
The maximum allowable point load may be placed anywhere along the insert. All loads placed less than 2" from the end of an insert must be reduced by 50%.

MAXIMUM ALLOWABLE UNIFORM LOAD



The maximum allowable uniform load must be placed as a series of point loads.

SPACING OF MULTIPLE POINT LOADS



CONTINUOUS CONCRETE INSERT LOAD CHART

UP TO 20 FT. (6.10M)

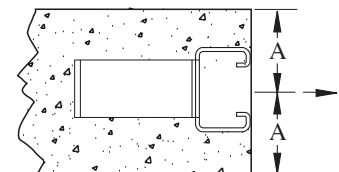
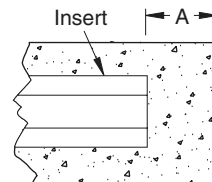
| Part Number | Wt/100 ft Lbs (kg) | Anchor Spacing In (mm) | Max. Allowable Point Load Lbs (kN) | Min. Spacing Between Pt. Loads In (mm) | Max. Allowable Uniform Load Lbs/Ft (kg/m) |
|-------------|--------------------|------------------------|------------------------------------|--|---|
| P3270 | 194 88.0 | 4 101.6 | 2,000 8.90 | 12 304.8 | 2,000 2,976.3 |
| P3370 | 139 63.0 | 4 101.6 | 1,500 6.67 | 12 304.8 | 1,500 2,232.2 |
| P3170* | 165 74.8 | 8 203.2 | 1,000 4.45 | 12 304.8 | 1,000 1,488.2 |

*When used in prestressed concrete "T" Beam.
Load data is based on use of 3000 PSI concrete.

PULL-OUT LOAD

Minimum Edge Distance to Achieve Rated Pull-Out Capacity

1 7/8" (47.6mm); P3170
A = 3" (76.2mm); all others





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

Unistrut is available in a range of corrosion inhibiting finishes making it a prime choice in today's marketplace. The Unistrut 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.

| | |
|--------------------------|-----|
| Application Example..... | 148 |
| Solar Connectors..... | 149 |
| Key Advantages..... | 150 |

MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel.

STEEL: PLAIN

12 Ga. (2.7 mm), 14 Ga.(1.9 mm) and 16 Ga. (1.5 mm) ASTM A1011 SS GR 33.

STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and 16 Ga. (1.5mm) ASTM A653 GR 33.

FINISHES

Fittings are available in:

- Green Powder Coat (GR), conforming to commercial standards for Powder Coating,
- Electro-galvanized (EG), conforming to ASTM B633 Type III SC1;
- Hot-dipped Galvanized (HG), conforming to ASTM A123 or A153
- Plain (PL).

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

DESIGN BOLT TORQUE

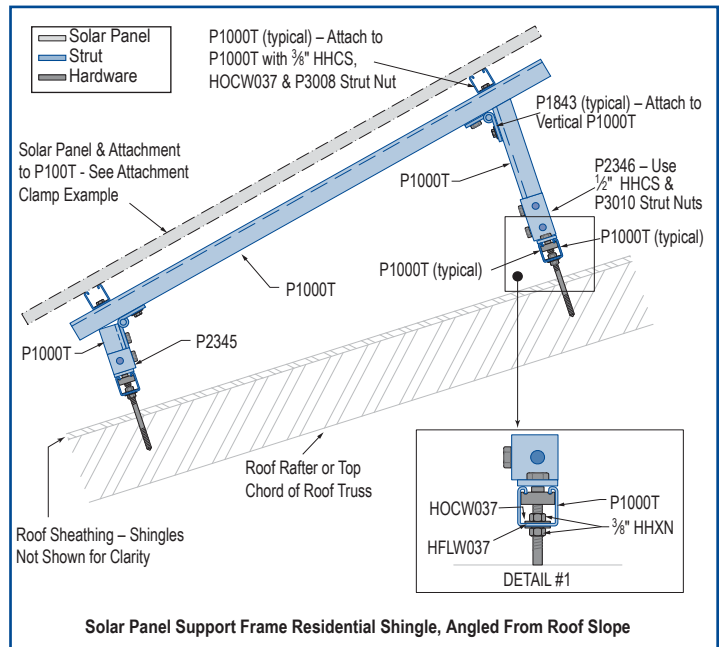
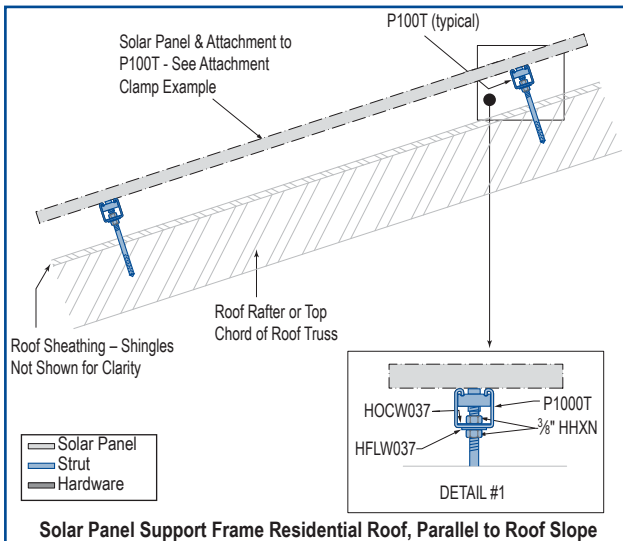
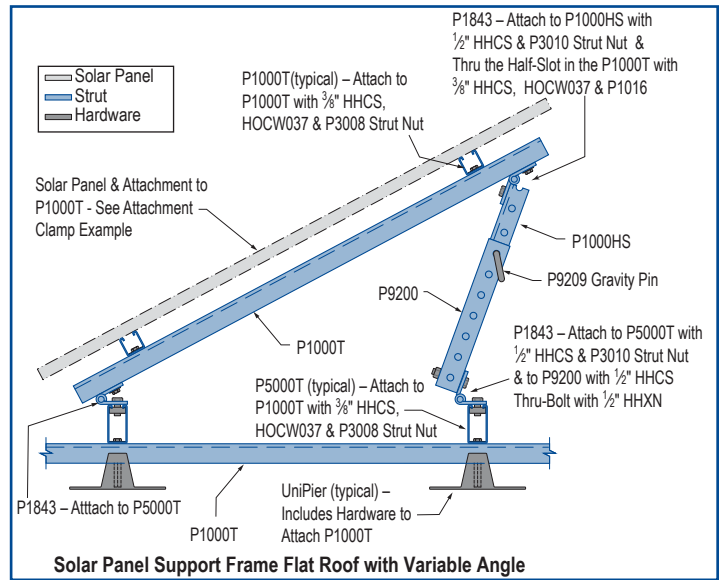
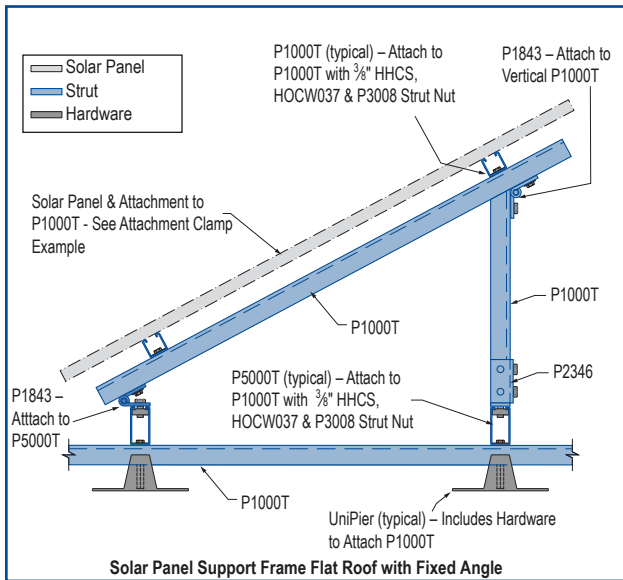
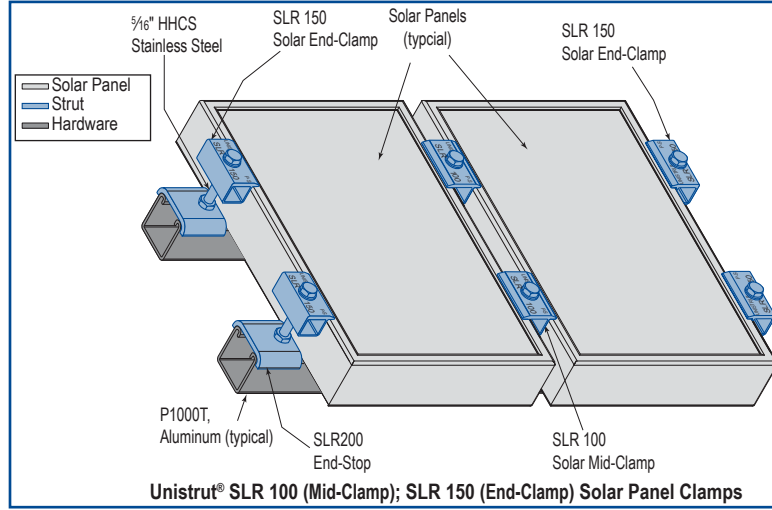
| BOLT SIZE | ¼"-20 | ⅜"-18 | ½"-16 | ⅝"-13 | ¾"-11 | ⅞"-10 |
|-------------------------|-------|---------|---------|---------|-----------|-----------|
| Rec.Torque Ft/Lbs (N·m) | 6 (8) | 11 (15) | 19 (26) | 50 (68) | 100 (136) | 125 (170) |
| Max Torque Ft/Lbs (N·m) | 7 (9) | 15 (20) | 25 (34) | 70 (95) | 125 (170) | 135 (183) |

LISTINGS

| | |
|-----------------------|---------------------|
| UL File No. - E361025 | PV Mounting Systems |
|-----------------------|---------------------|



TYPICAL SOLAR INSTALLATION



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

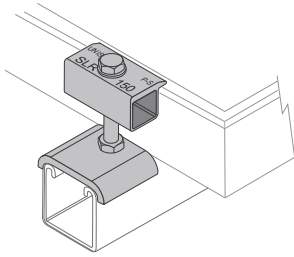
Electrical Fittings

Concrete Inserts

Solar

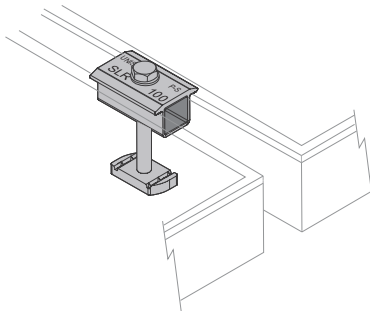
Unipier®

SLR200 – SOLAR END CLAMP



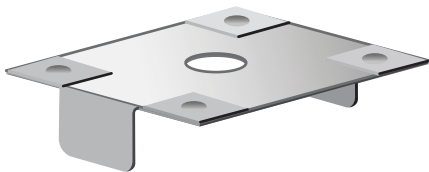
- $\frac{5}{16}$ " x $2\frac{3}{4}$ " hex head cap screw; stainless steel nut; lock washer included
- End-clamp design for use with strut based racking system
- Patent-pending end-stop feature allows use with vertical strut
- Meets uplift loads of 350 lbs.
- ***Patent-pending**

SLR100 – SOLAR MID-CLAMP

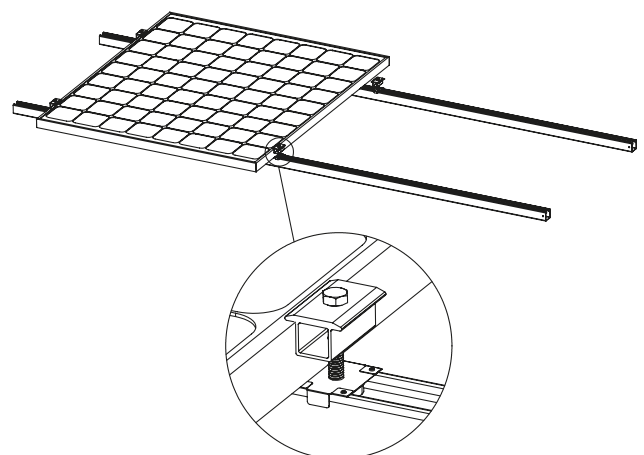


- $\frac{5}{16}$ " x $2\frac{3}{4}$ " hex head cap screw; stainless steel nut; lock washer included
- Mid-clamp design for use with strut based racking system
- Provides .8"(21 mm) panel spacing
- Meets spacing requirements of WEEB-WMC
- Meets uplift loads of 350 lbs.

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



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

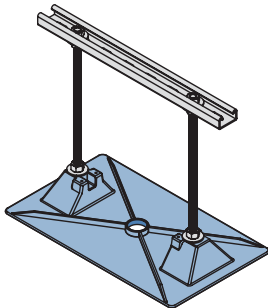
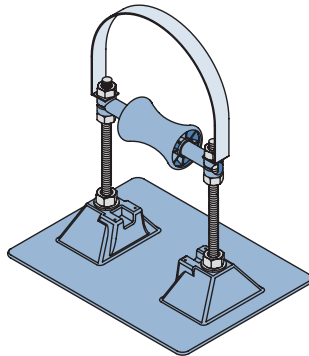
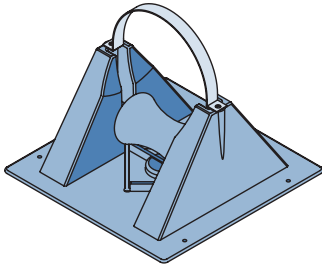
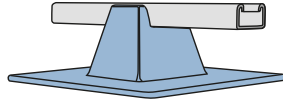
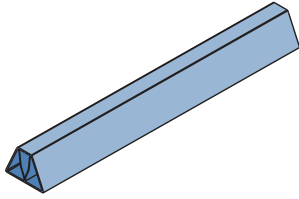
Solar

Unipier®



KEY ADVANTAGES

- The market's only specific panel mounting components made exclusively for use with Unistrut.
- 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 Unistrut channel to create less penetration, and superior slip resistance.
- Available and supported by Unistrut's national network of distributors.



Sleeper Support 153 - 154
 Strut Support 155 - 156

Conduit Supports

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 Elevated Support, Polycarbonate Base 157
 Elevated Support, Steel Base 158

Gas and Mechanical Supports

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 Mounted Support, w/Roller Polycarbonate Base 158
 Elevated Support, w/Roller, Polycarbonate Base 159
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1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

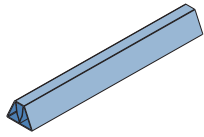
Electrical Fittings

Concrete Inserts

Solar

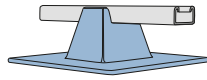
Unipier®

Sleeper Support



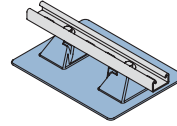
Rooftop Sleeper Support
Pg 153 - 154

Strut Support

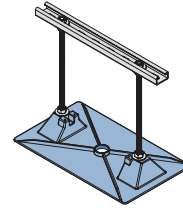


Model UP
Strut Support
Pg 155

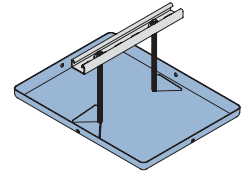
Conduit Support



Mounted
Polycarbonate Base
Pg 157

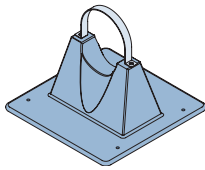


Elevated Support
Polycarbonate Base
Pg 157

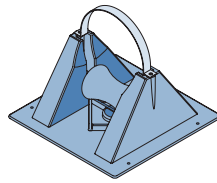


Elevated Support
Steel Base
Pg 158

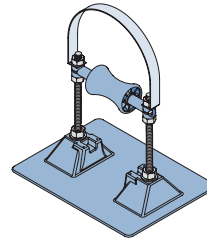
Gas and Mechanical Support



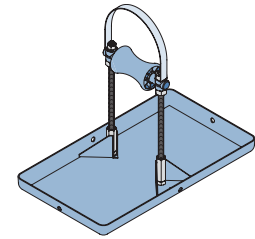
Mounted
Polycarbonate Base
Pg 158



Mounted, w/Roller
Polycarbonate Base
Pg 158

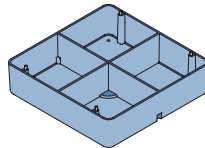


Elevated Support, w/Roller
Polycarbonate Base
Pg 159

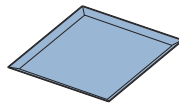


Elevated Support, w/Roller
Steel Base
Pg 160

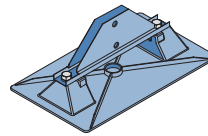
Accessories



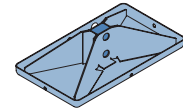
Spacer for Model 1.5, 3-R
Pg 160



Support Pads &
Deck Plates
Pg 160

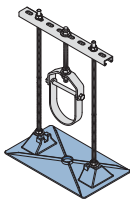


Polycarbonate Bases
Pg 161

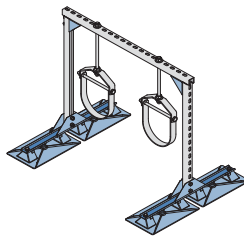


Steel Bases
Pg 161

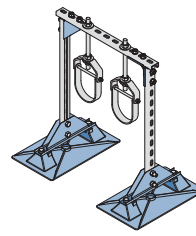
Fabricated Supports



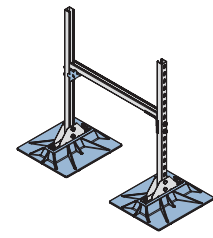
Single Base Trapeze
Pg 162



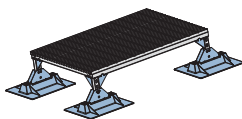
Double Base Trapeze
Pg 163



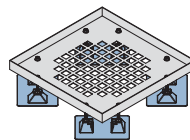
Heavy Duty, Double Base Trapeze
Pg 163



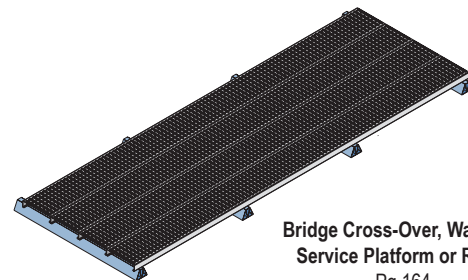
Double Base Duct Support
Pg 163



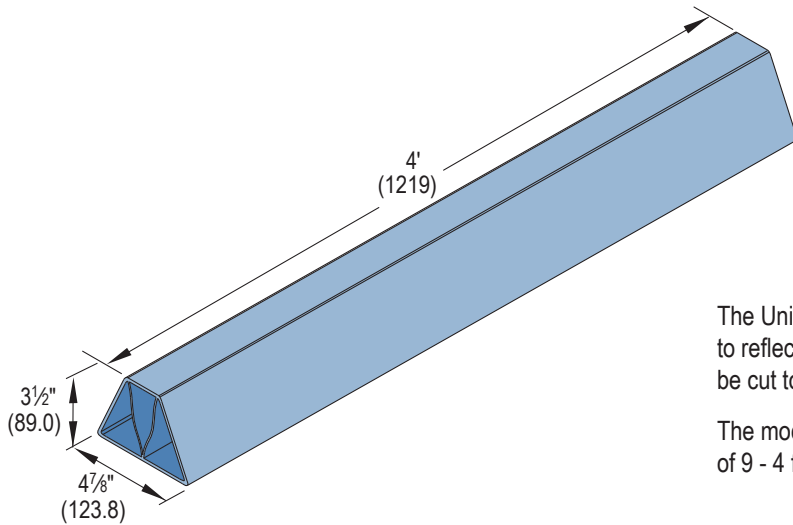
Heavy Duty Mechanical Support
Pg 164



Light Duty Mechanical Support
Pg 164



Bridge Cross-Over, Walkway,
Service Platform or Ramp
Pg 164



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.



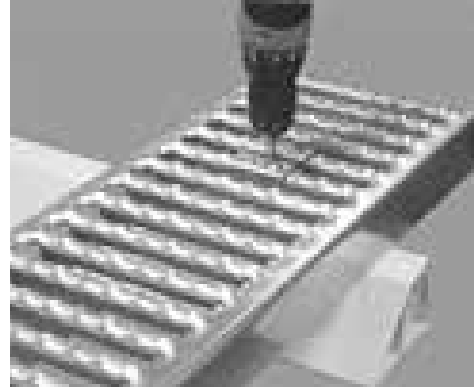
TEK screws or other self tapping fasteners are used to attach conduit supports, pipe clamps or other clamping fittings.

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.

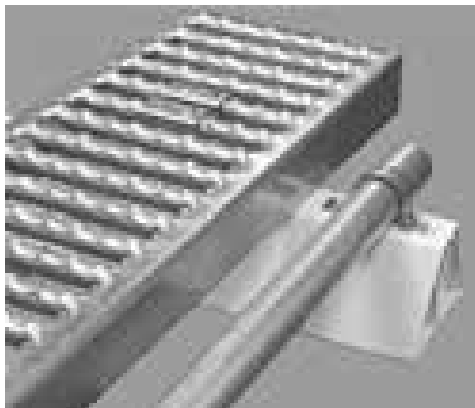


Position the grating on the Unipier sleeper support and insert the appropriate size hold down clip (G639, G607, or G620).



Use a TEK screw to attach the hold down clip.

That's all that is required!

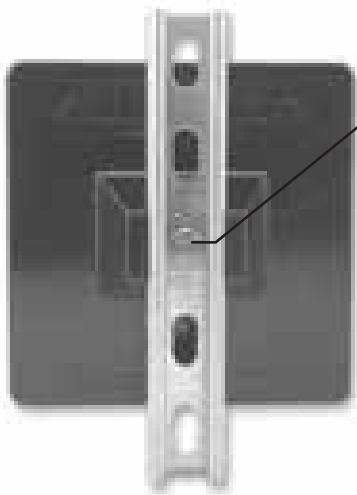


You can even use the Unipier support for multiple tasks. Here we have Unistrut Roofwalks® Rooftop Walkways and a piece of electrical conduit attached to the sleeper.



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 3½" Pipe) |
| UP-SPSS-10HG | 4 | 4 | 10" - P4100T HG (4" to 8" Pipe) |

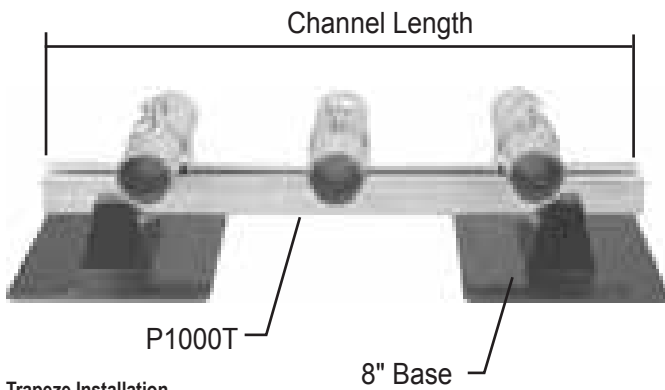
NOTE:

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



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.

| 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.



Support Spacing

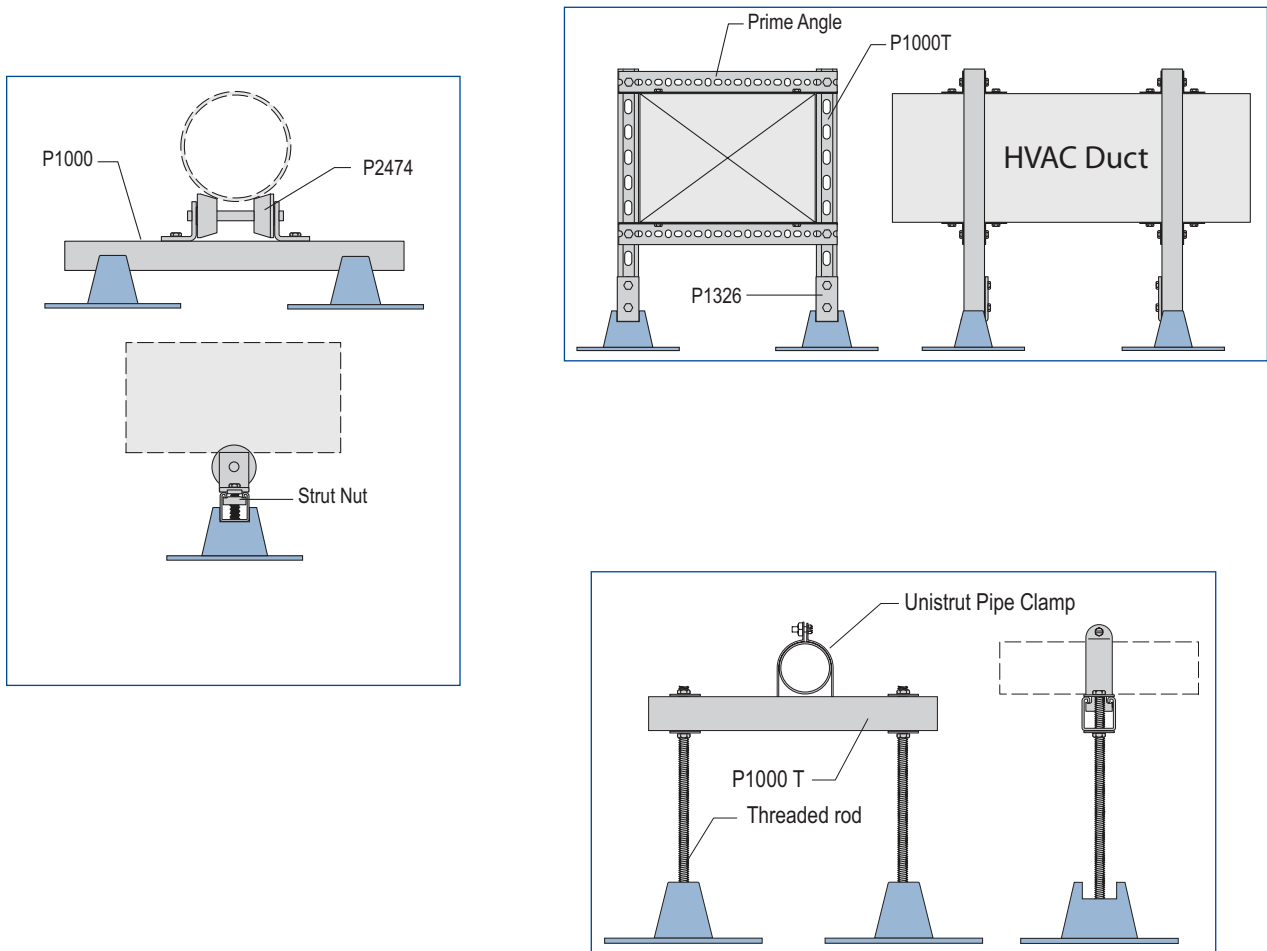
| Pipe Size (Nom.) | Support Spacing | | | |
|------------------|--|------------------------|----------------------------|------------------------|
| | Sch. 40 Pipe Water-Filled ^(a) | | Conduit GRC ^(b) | |
| | Single Pier | Trapeze ^(d) | Single Pier | Trapeze ^(d) |
| 3/8" | 7' | 7' | N/A | N/A |
| 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.

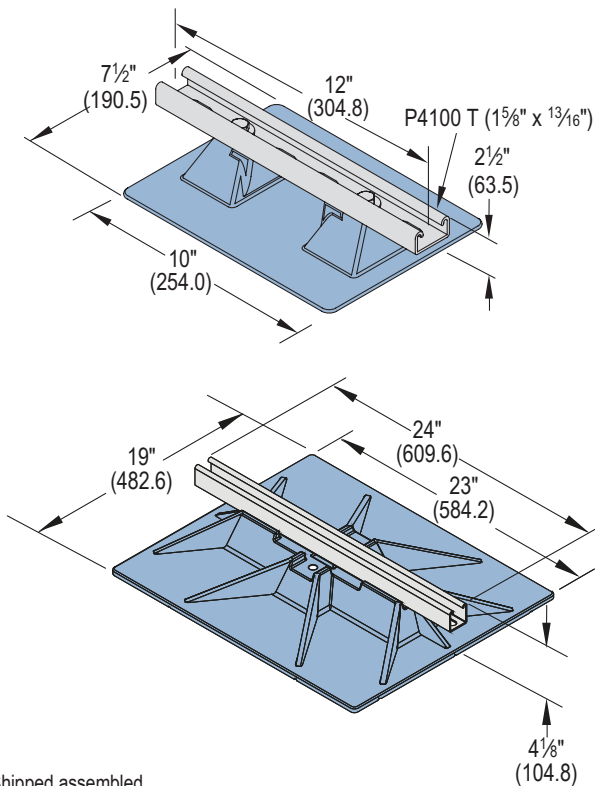
Application Examples

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.



1 1/8" Channel
 Telestrut
 Nuts & Hardware
 General Fittings
 Pipe/Conduit Supports
 Electrical Fittings
 Concrete Inserts
 Solar
 Unipier®

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

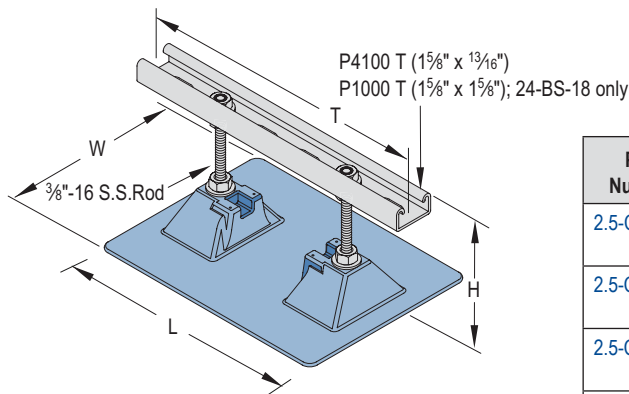
Maximum pipe size supported by any of the strut supports is determined by the load and the clear space required between the pipes. The spacing between pipes should be as follows:

- 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:

$$1" + 3" + 1\text{-}1/2" + 3" + 1" = 9\text{-}1/2" \text{ wide channel support}$$

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.

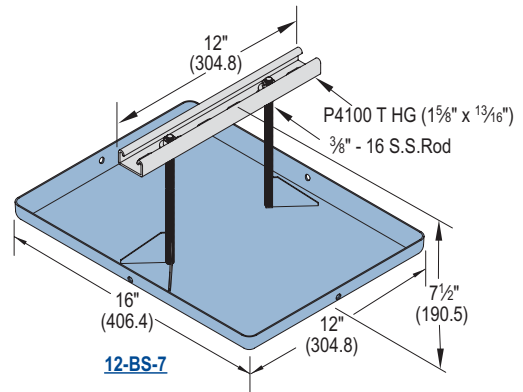
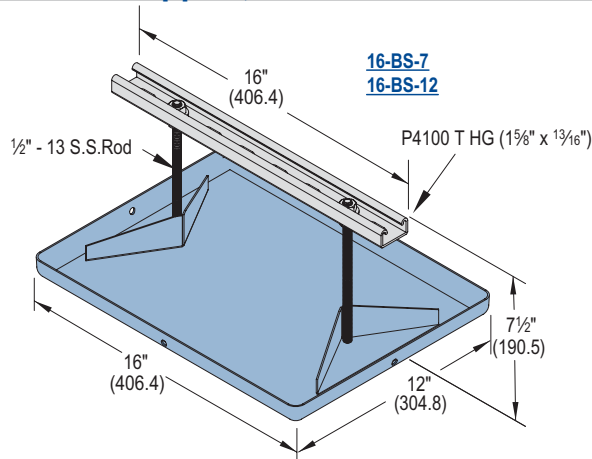
All bases are polycarbonate material

Shipped assembled.

| Part Number | "H" (max) in. (mm) | "W" in. (mm) | "L" in. (mm) | "T" in. (mm) | Max. Uniform Load | Wt./Each (lbs.) |
|-------------|-----------------------|-------------------|--------------------|-----------------|----------------------|--------------------|
| 2.5-CS-5 | 5" (127.0) | 7 1/2" (190.5) | 10" (254.0) | 12" (304.8) | 100 lbs. | 2.1 |
| 2.5-CS-7 | 7 1/2" (190.5) | 7 1/2" (190.5) | 10" (254.0) | 12" (304.8) | 100 lbs. | 2.5 |
| 2.5-CS-12 | 12" (304.8) | 9" (228.6) | 15 1/4" (387.4) | 12" (304.8) | 100 lbs. | 4.0 |
| 16-BS-7 | 7" (177.8) | 9" (228.6) | 15 1/4" (387.4) | 16" (406.4) | 125 lbs. | 5.0 |
| 16-BS-12 | 12" (304.8) | 9" (228.6) | 15 1/4" (387.4) | 16" (406.4) | 125 lbs. | 8.0 |
| 20-BS-7 | 7" (177.8) | 16" (406.4) | 18" (457.2) | 20" (508.0) | 440 lbs. | 10.8 |
| 20-BS-12 | 12" (304.8) | 16" (406.4) | 18" (457.2) | 20" (508.0) | 440 lbs. | 15.1 |
| 24-BS-18 | 12" (304.8) | 23" (584.2) | 19" (482.6) | 24" (609.6) | 640 lbs. | 8.0 |



Elevated Support, Steel Base



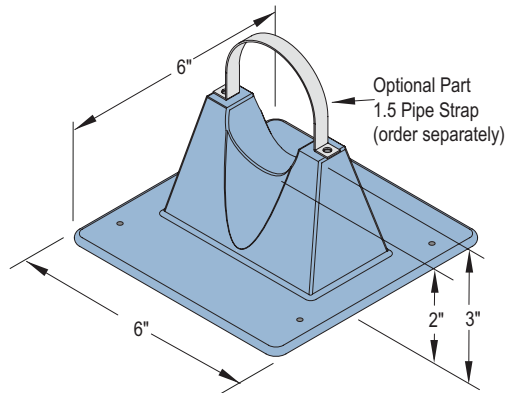
Shipped assembled.

| 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. |

Unipier® Rooftop Pipe Support System - Gas & Mechanical Support

Mounted, Polycarbonate Base



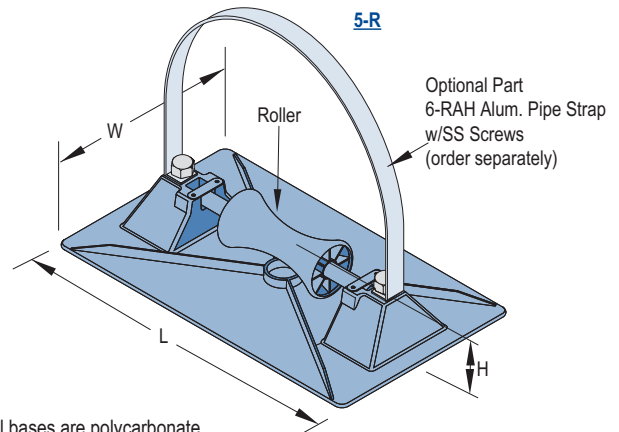
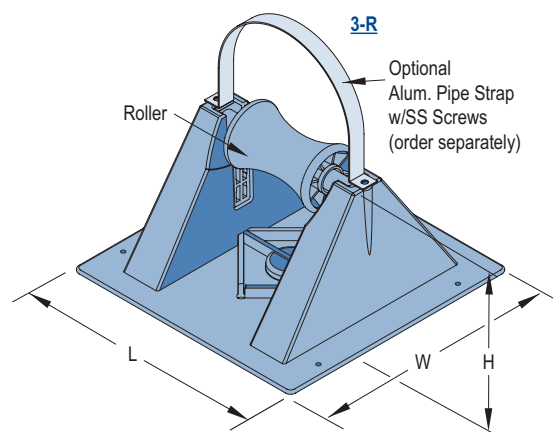
| Part Number | Max. Pipe Capacity | Max. Uniform Load | Wt./Ea. | Optional Pipe Strap |
|------------------|---------------------|-------------------|-----------|---------------------|
| 1.5 Pipe Support | 1 1/2" ID , 1.9" OD | 80 lbs. | 0.35 lbs. | 1.5 Pipe Strap |

Note: Base is polycarbonate

Optional pipe strap aluminum w/SS Screws

Shipped assembled.

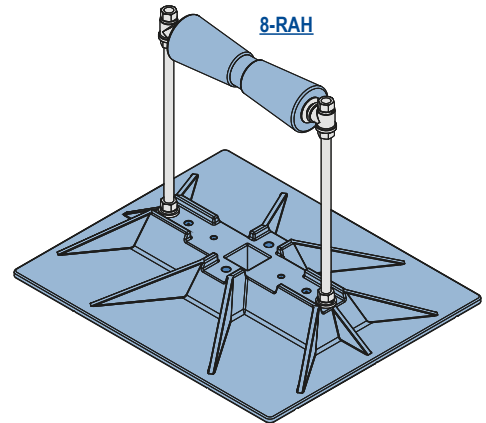
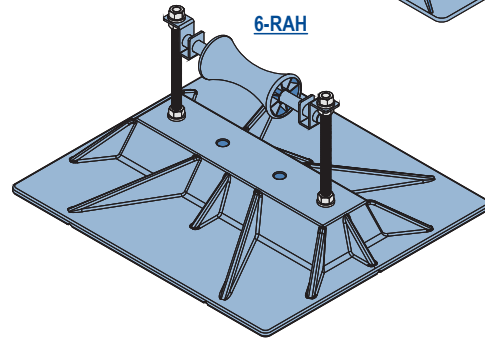
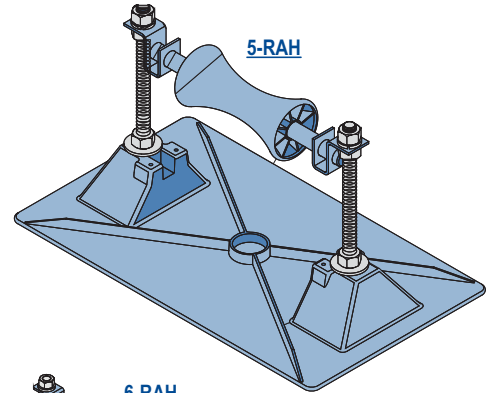
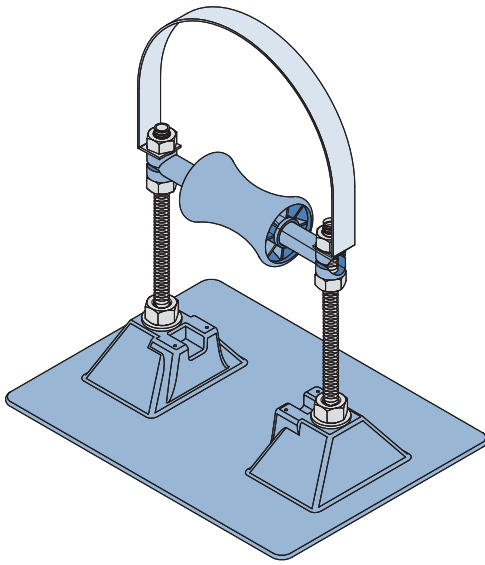
Mounted, with Roller, Polycarbonate Base



Note: All bases are polycarbonate

| Part Number | "H" in. (mm) | "W" in. (mm) | "L" in. (mm) | Roller size | Max. Pipe Capacity | Max. Uniform Load | Wt./Ea. Lbs. | Optional Pipe Strap |
|-------------|--------------|----------------|-----------------|-------------|--------------------|-------------------|--------------|---------------------|
| 3-R-2 | 2.15" (54.6) | 7 3/4" (196.9) | 7 3/4" (196.9) | 3" (76.2) | 3" ID 3 3/4" OD | 100 lbs. | 1.1 lbs. | 3-R-2 Pipe Strap |
| 3-R-4 | 4" (101.6) | 7 3/4" (196.9) | 7 3/4" (196.9) | 3" (76.2) | 3" ID 3 3/4" OD | 100 lbs. | 1.2 lbs. | 3-R-4 Pipe Strap |
| 5-R | 2.35" (59.7) | 9" (228.6) | 15 1/4" (387.4) | 5" (127.0) | 5" ID 6" OD | 150 lbs. | 2.4 lbs. | 6-RAH Pipe Strap |

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. (mm) | "W" in. (mm) | "L" in. (mm) | Roller Size in. (mm) | Max. Pipe Capacity | Max. Uniform Load | Wt./Ea. Lbs. | Optional Pipe Strap |
|-------------|-----------------------|-------------------|--------------------|-------------------------|--------------------|-------------------|--------------|---------------------|
| 3-RAH-7 | 7" (177.8) | 7 1/2" (190.5) | 10" (254.0) | 3" (76.2) | 3" ID 3 3/4" OD | 100 lbs. | 1.9 | 3-RAH Pipe Strap |
| 3-RAH-12 | 12" (304.8) | 9" (228.6) | 15 1/4" (387.4) | 3" (76.2) | 3" ID 3 3/4" OD | 100 lbs. | 5.8 | 3-RAH Pipe Strap |
| 5-RAH-7 | 7" (177.8) | 9" (228.6) | 15 1/4" (387.4) | 5" (127.0) | 5" ID 6" OD | 150 lbs. | 4.8 | 6-RAH Pipe Strap |
| 5-RAH-12 | 12" (304.8) | 9" (228.6) | 15 1/4" (387.4) | 5" (127.0) | 5" ID 6" OD | 150 lbs. | 4.8 | 6-RAH Pipe Strap |
| 6-RAH-7 | 7 1/2" (190.5) | 16" (406.4) | 18" (457.2) | 5" (127.0) | 6" ID 8 1/2" OD | 250 lbs. | 8.8 | 6-RAH Pipe Strap |
| 6-RAH-12 | 12" (304.8) | 16" (406.4) | 18" (457.2) | 5" (127.0) | 6" ID, 8 1/2" OD | 250 lbs. | 9.8 | 6-RAH Pipe Strap |
| 8-RAH-18 | 18" (457.2) | 19" (482.6) | 23" (584.2) | 12" (304.8) | 6" ID, 8 1/2" OD | 640 lbs. | 20.0 | 8-RAH Pipe Strap |



1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

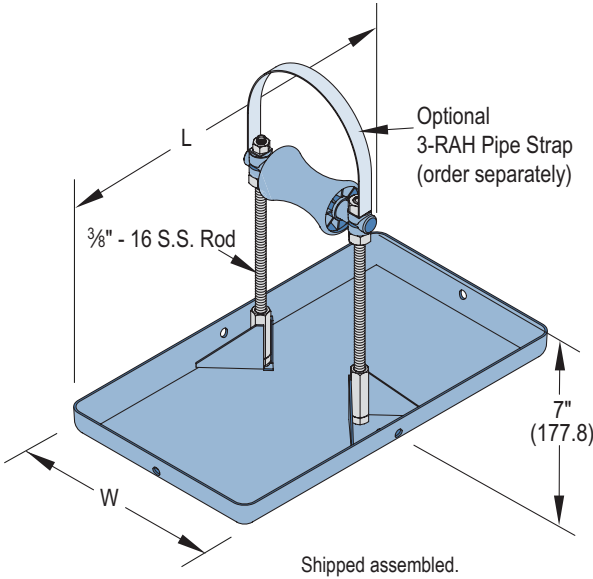
Electrical Fittings

Concrete Inserts

Solar

Unipier®

Elevated Support, with Roller, Steel Base

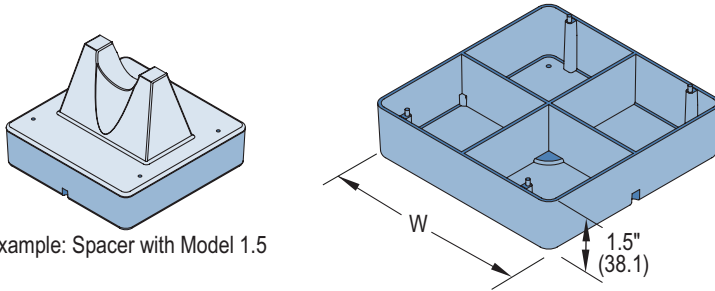


| Part Number | "W" in. (mm) | "L" in. (mm) | Roller in. (mm) | Material | Max. Pipe Capacity | Max. Uniform Load | Wt. Each Lbs |
|-------------|----------------|----------------|-----------------|-----------------------|--------------------|-------------------|--------------|
| 3-RAH-7 HG | 8" (203.2) | 14" (355.6) | 3" (76.2) | Hot-Dipped Galvanized | 3" ID 3 3/4" OD | 100 lbs. | 3.3 |
| 3-RAH-7 SS | 8" (203.2) | 14" (355.6) | 3" (76.2) | Stainless Steel | 3" ID 3 3/4" OD | 100 lbs. | 3.3 |
| 4-RAH-7 HG | 12.07" (306.6) | 16.07" (408.2) | 5" (127.0) | Hot-Dipped Galvanized | 4" ID 5" OD | 150 lbs. | 6.8 |
| 4-RAH-7 SS | 12.07" (306.6) | 16.07" (408.2) | 5" (127.0) | Stainless Steel | 4" ID 5" OD | 150 lbs. | 5.8 |

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

Unipier® Rooftop Pipe Support System - Accessories

Spacer for Model 1.5 and Model 3-R

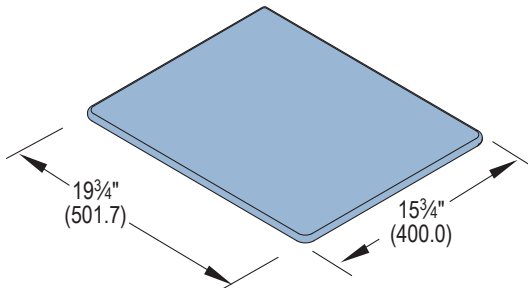


Example: Spacer with Model 1.5

| 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



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.

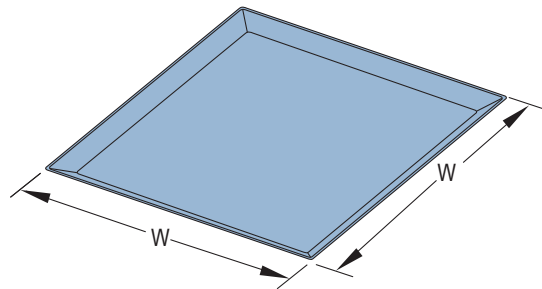
Support pads should be installed in the following areas:

- 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.

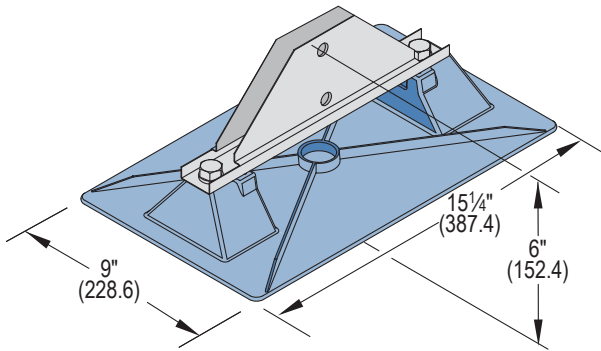
Deck Plate, Stainless Steel



| 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. |

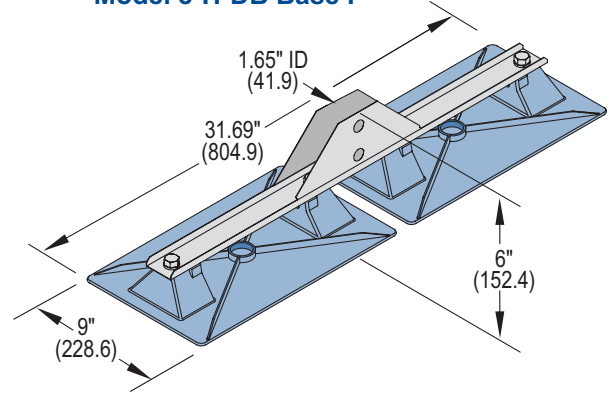
Polycarbonate Base

Model 6-H Base P



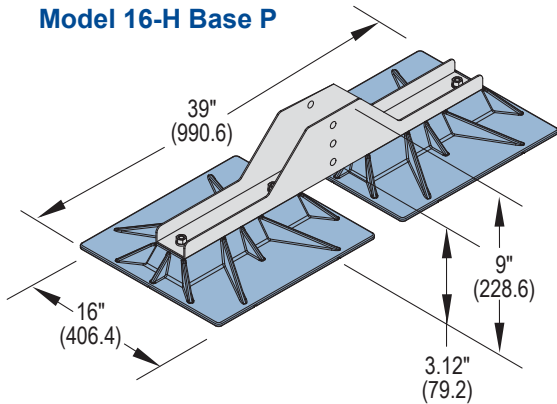
Note: Maximum 150 lbs. Load
Wt./Ea.: 2.5 lbs.

Model 8-H-DB Base P



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

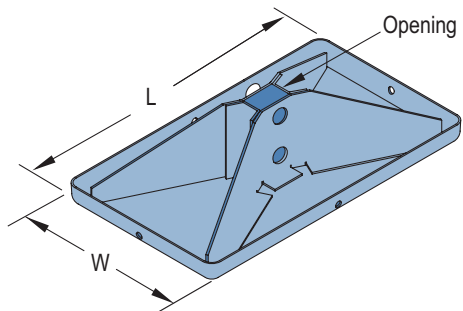
Model 16-H Base P



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

Stainless Steel / Hot Dip Galvanized Steel Base

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



| Part Number | "W" | "L" | "Opening" |
|--------------|---------------|---------------|-------------------------------|
| 6-H Base HG | 8" (203.2mm) | 14" (355.6mm) | 1-5/8" x 7/8" (41.3 x 22.2) |
| 6-H Base SS | 8" (203.2mm) | 14" (355.6mm) | 1-5/8" x 7/8" (41.3 x 22.2) |
| 8-H Base HG | 16" (406.4mm) | 12" (304.8mm) | 1-5/8" x 1-5/8" (41.3 x 41.3) |
| 8-H Base SS | 16" (406.4mm) | 12" (304.8mm) | 1-5/8" x 1-5/8" (41.3 x 41.3) |
| 16-H Base HG | 20" (508.0mm) | 20" (508.0mm) | 3" x 3" (76.2 x 76.2) |
| 16-H Base SS | 20" (508.0mm) | 20" (508.0mm) | 3" x 3" (76.2 x 76.2) |

Single Base Trapeze

1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

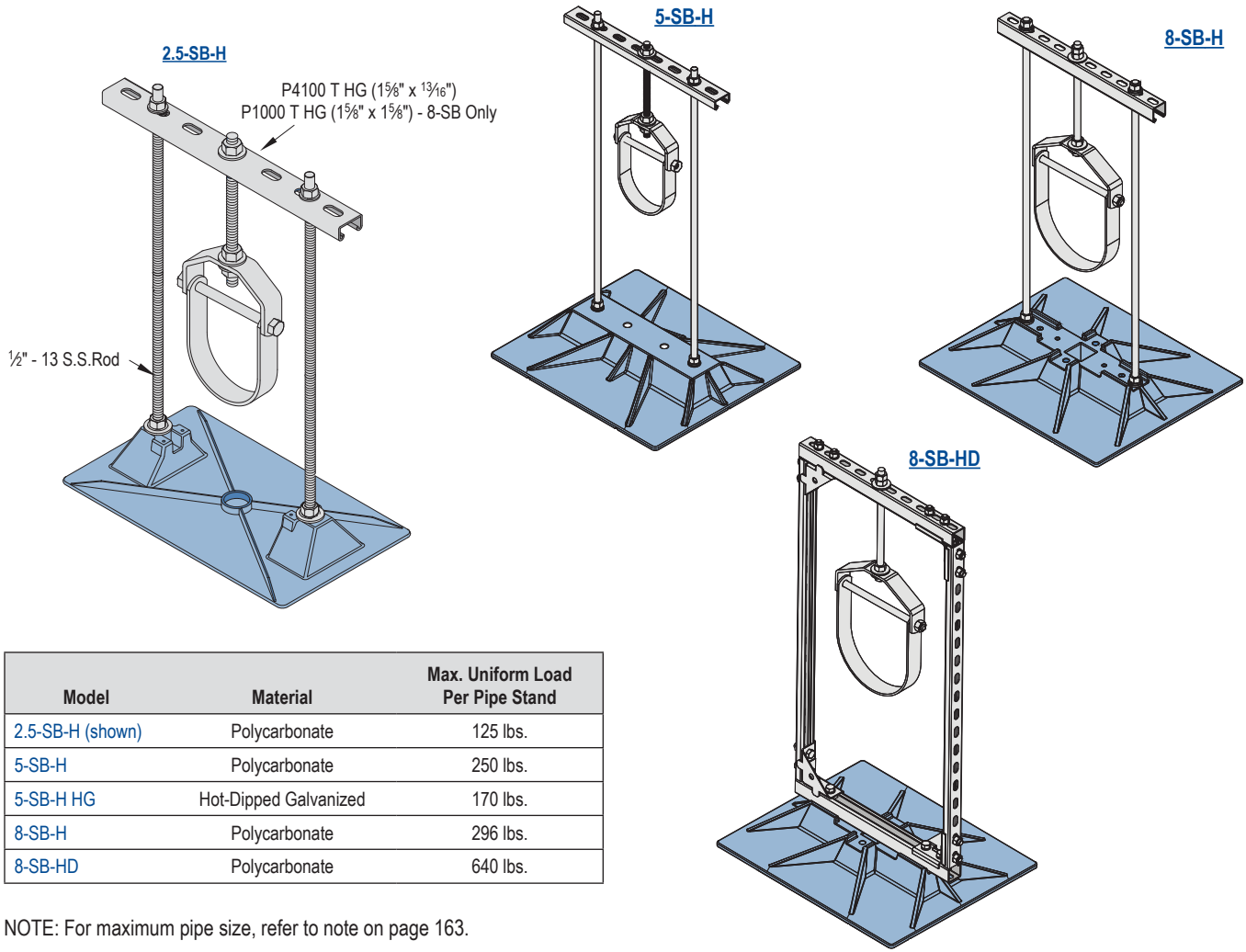
Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

Solar

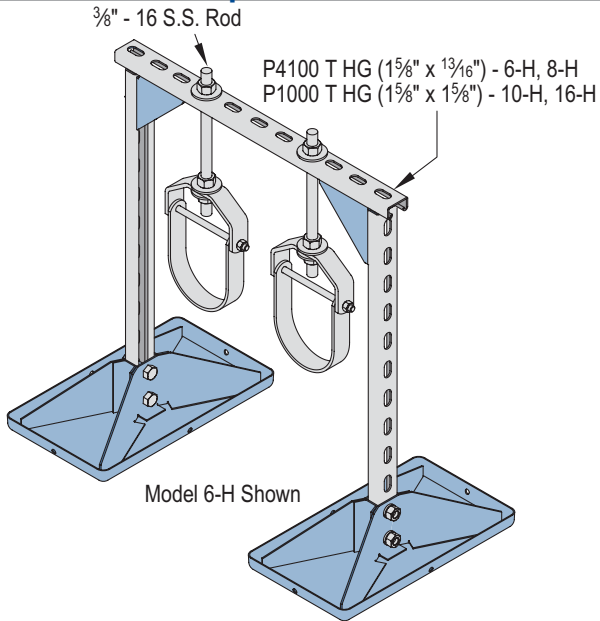
Unipier®



| 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. |

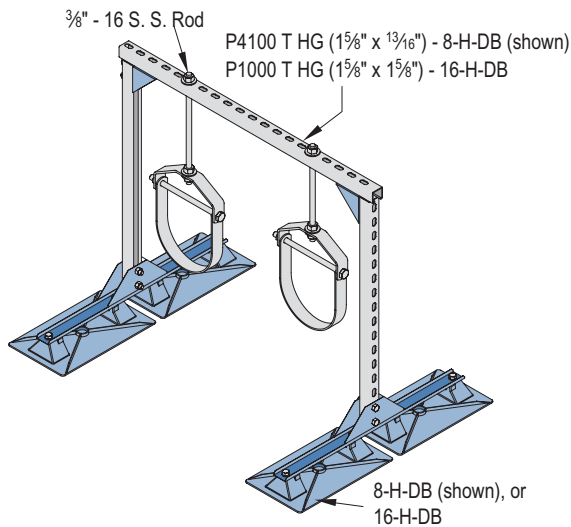
NOTE: For maximum pipe size, refer to note on page 163.

Double Base Trapeze



| 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" |

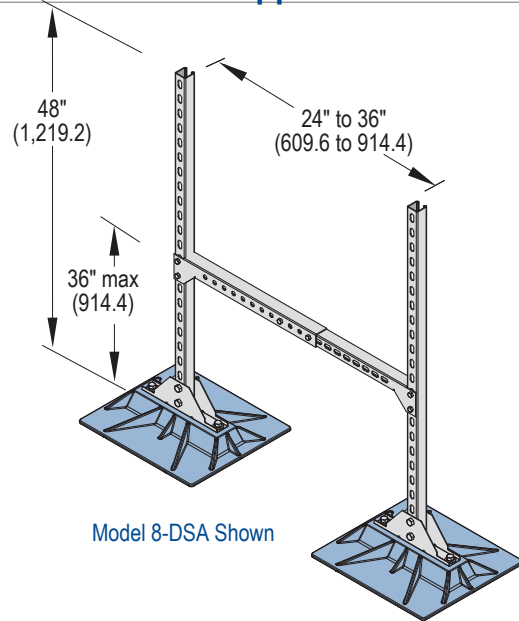
Heavy Duty Double Base Trapeze



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

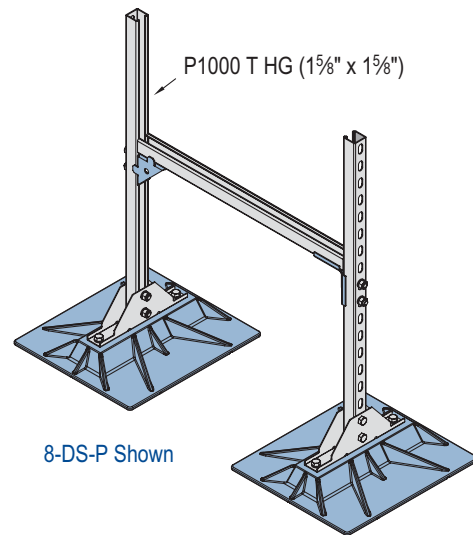
Base Material: Polycarbonate

Double Base Duct Support



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

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. |

1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

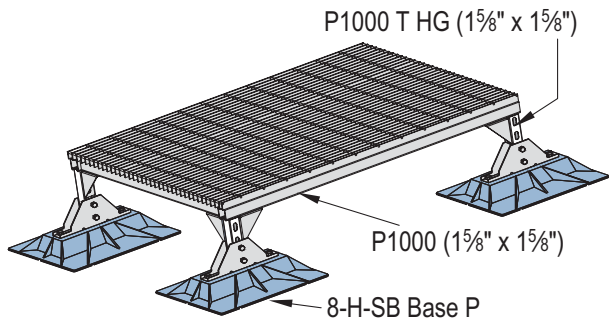
Electrical Fittings

Concrete Inserts

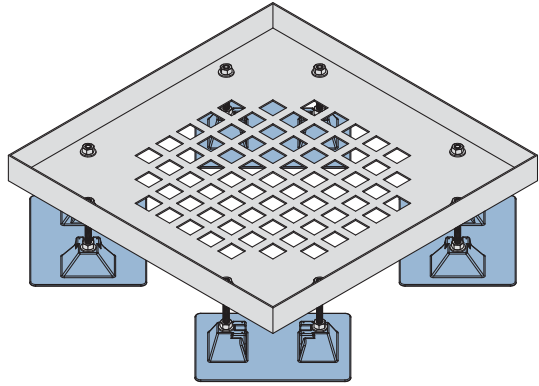
Solar

Unipier®

Heavy Duty Mechanical Support

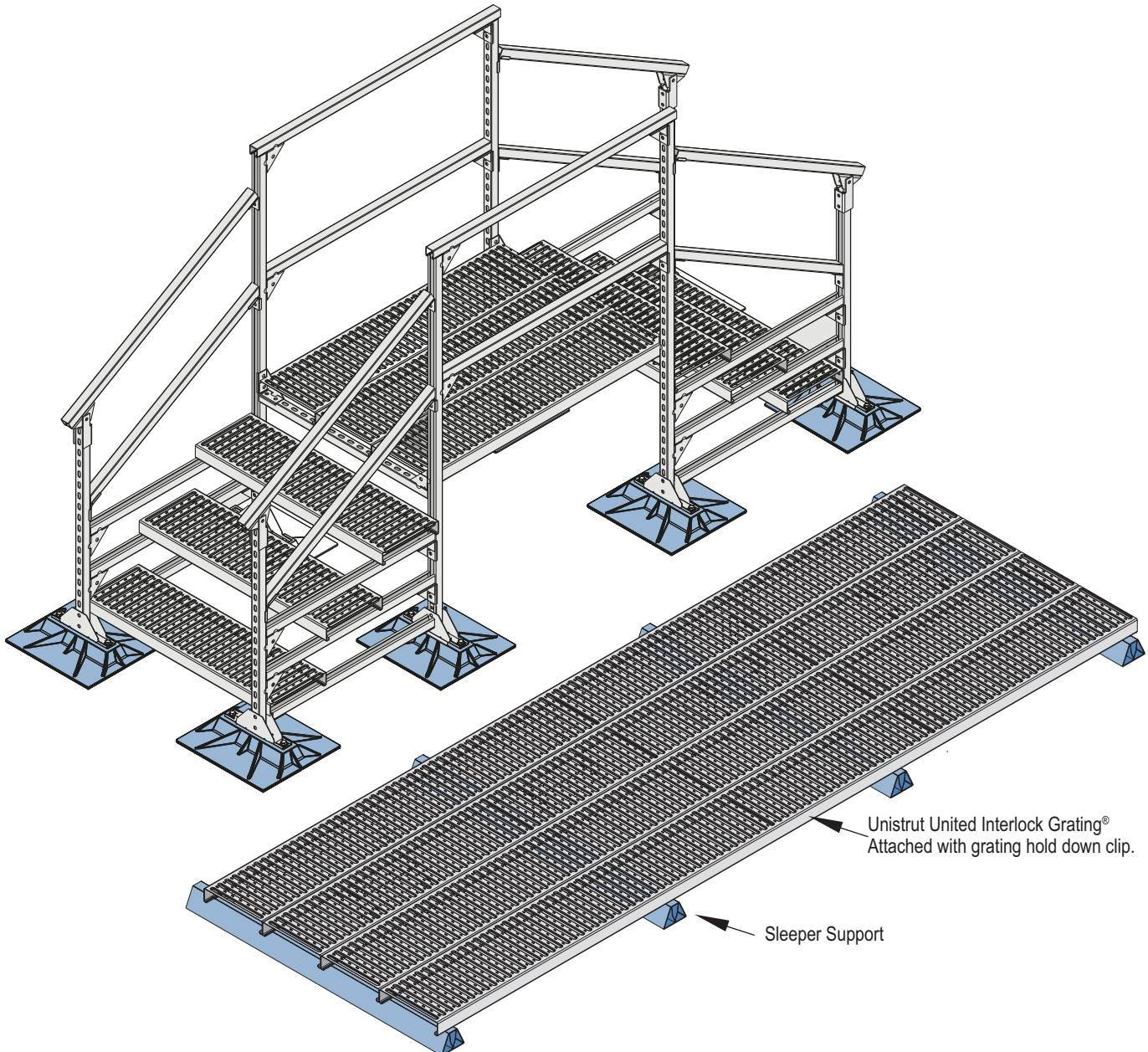


Light Duty Mechanical Support



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.

Typical 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" | - |

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-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.

1 1/8" Channel

Telestrut

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

Solar

Unipier®



Technical Properties For Polycarbonate Resin*

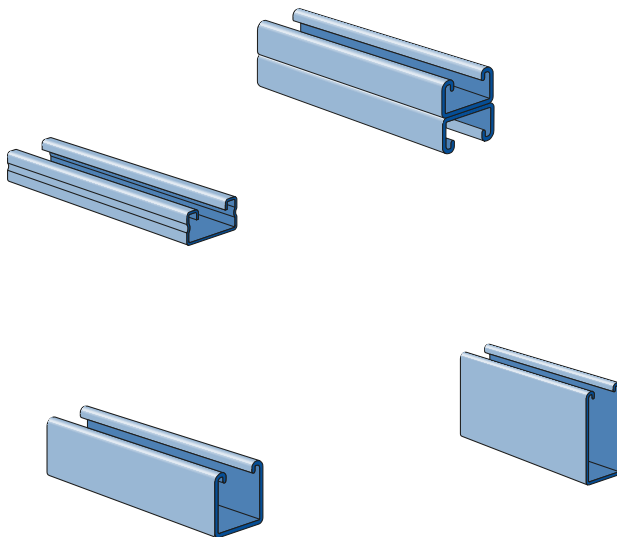
| PROPERTY | ASTM TEST METHOD | VALUE |
|---|------------------|---|
| PHYSICAL | | |
| Specific Gravity | D792 | 1.20 |
| Specific Volume, in ³ /lb (cm ³ /g) | - | 23.1 (0.83) |
| Weight/Volume, lbs/in ³ (g/cm ³) | - | 0.043 (1.20) |
| Water Absorption % | D570 | - |
| 24 hours @ 73°F (23°C) | - | 0.15 |
| 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 x 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 |
| Arc Resistance, sec | D495 | - |
| Stainless Steel Electrodes | - | 10-11 |
| Tungsten Electrodes | - | 120 |

| PROPERTY | ASTM TEST METHOD | VALUE |
|--|------------------|--------------|
| 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.



1 1/4" FRAMING SYSTEM



| | |
|---------------------------------------|-----------|
| A1000 (14 Gauge) | 171 - 172 |
| A3300 (14 Gauge) | 173 - 174 |
| Channel Nuts and Closure Strips | 175 |
| Flat Plate Fittings | 175 - 176 |
| Ninety Degree Fittings..... | 176 |
| Angle and Wing Shape Fittings | 176 |
| "U" Shape Fittings | 177 |
| Pipe / Tubing Clips | 177 |
| Brackets | 177 |

MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel.

STEEL: PLAIN

- 14 Gauge (1.9 mm), ASTM A1011 SS GR 33
- 19 Gauge (1.0 mm) ASTM A1008

STEEL: PRE-GALVANIZED

- 14 Gauge (1.9 mm) ASTM A653 GR 33,
- 19 Gauge (1.0 mm) ASTM A653 GR 33

Channel nuts are manufactured from mild steel bars conforming to ASTM A576, GR 1015, and are case hardened.

Fittings are made from hot rolled, pickled and oiled steel plate or strip and conform to ASTM A1011 SS GR 33.

Many framing channels are available in special metal on request. Consult factory for ordering information.

FINISHES

All channels and fittings are available in: Perma-Green III (GR), Pre-galvanized (PG), conforming to ASTM A653 GR 33 and plain (PL).

Nuts are available in plain or electro-galvanized (EG) finish.

Fittings are available in Perma-Green III (GR) or plain (PL).

STANDARD LENGTHS

Standard lengths are 10 feet (3.05M) and 20 feet (6.10M). Tolerances are: +1/8" (3.2 mm) to +1/2" (12.7 mm) to allow for cutting. Special lengths are available for a small cutting charge with a tolerance of ±1/8" (3.2mm).

APPLICATION

A framing system designed for medium loads, the 1 1/4" series is especially suitable for use in the OEM, commercial and display markets. It maintains a lightness in scale and a clean line that makes it aesthetically pleasing as well as functional.

THREADS

All threads on the nuts and bolts are Unified and American coarse screw threads.

DESIGN BOLT TORQUE

| BOLT SIZE | 1/4"-20 | 3/16"-18 | 3/8"-16 |
|-----------------------------|----------|------------|------------|
| Rec. Torque Ft/Lbs (N•m) | 6 (8) | 11 (15) | 19 (26) |
| Max Torque Ft/Lbs (N•m) | 7 (9) | 15 (20) | 25 (34) |

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

LOAD DATA

All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD. Loads are based on 33 ksi steel cold formed to 42 ksi.

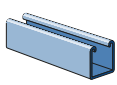
| Type of Load | Safety Factor to Yield Strength | Safety Factor to Ultimate Strength |
|--------------|---------------------------------|------------------------------------|
| Beam Loads | 1.67 | 2.0 |
| Column Load | 1.80 | 2.2 |



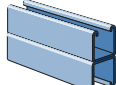
1 1/4" System

A1000 Series

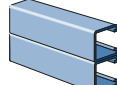
1 1/4" x 1 1/4"
14 Ga.



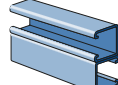
A1000-Pg 171



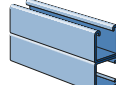
A1001-Pg 171



A1001 A-Pg 172



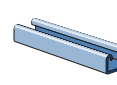
A1001 B-Pg 172



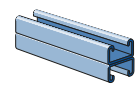
A1001 C-Pg 172

A3300 Series

1 1/4" x 3/4"
14 Ga.



A3300-Pg 173



A3301-Pg 173

1 3/16" System

Channel Nuts & Closures



A1006-1420-Pg 175



A4006-1420-Pg 175

Fiberglass System



A3006-1420-Pg 175



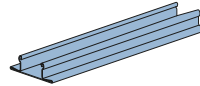
A3016-0832-Pg 175



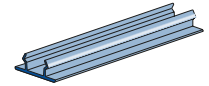
A1280-Pg 175



A4280-Pg 175



A1184-Pg 175



A1184P-Pg 175

Special Metals

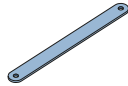
A Series Fittings



A1063-Pg 175



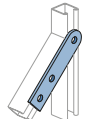
A1065-Pg 175



A1191-Pg 175



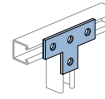
A1066-Pg 176



A2324-Pg 176



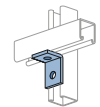
A1036-Pg 176



A1031-Pg 176

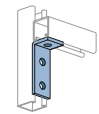


A1026-Pg 176

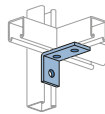


A1068-Pg 176

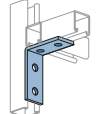
PrimeAngle



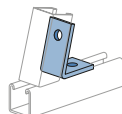
A1326-Pg 176



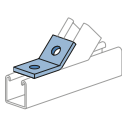
A1458-Pg 176



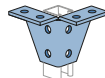
A1325-Pg 176



A2110-Pg 176



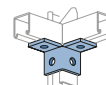
A2126-Pg 176



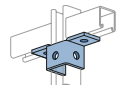
A2084-Pg 176



A2472 R-L-Pg 176

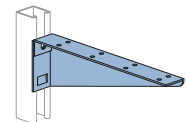


A2223-Pg 176

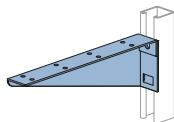


A2345-Pg 176

Metal Grating



A2494 R-Pg 177

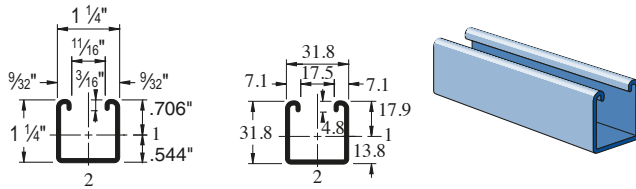


A2494 L-Pg 177

Roofwalk

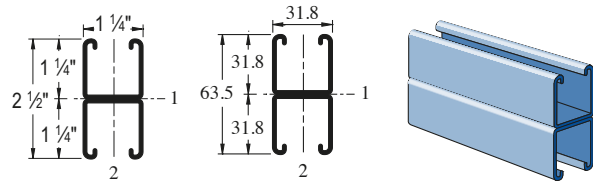
Index

A1000 – 1¼" x 1¼"



Wt/100 Ft: 104 Lbs(154 kg/100m)
 Allowable Moment 2,170 In-Lbs (240 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1001 – 1¼" x 2½"



Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 6,070 In-Lbs (690 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1000 - BEAM LOADING

| Span In | Max Allowable Uniform Load Lbs | Defl. at Uniform Load In | Uniform Loading at Defl. | | |
|---------|--------------------------------|--------------------------|--------------------------|--------------|--------------|
| | | | Span/180 Lbs | Span/240 Lbs | Span/360 Lbs |
| 18 | 960 | 0.04 | 960 | 960 | 960 |
| 24 | 720 | 0.07 | 720 | 720 | 660 |
| 36 | 480 | 0.16 | 480 | 440 | 300 |
| 48 | 360 | 0.29 | 330 | 250 | 170 |
| 60 | 290 | 0.45 | 210 | 160 | 110 |
| 72 | 240 | 0.65 | 150 | 110 | 70 |
| 84 | 210 | 0.90 | 110 | 80 | 50 |
| 96 | 180 | 1.16 | 80 | 60 | 40 |
| 108 | 160 | 1.46 | 70 | 50 | 30 |
| 120 | 140 | 1.75 | 50 | 40 | 30 |

A1001 - BEAM LOADING

| Span In | Max Allowable Uniform Load Lbs | Defl. at Uniform Load In | Uniform Loading at Defl. | | |
|---------|--------------------------------|--------------------------|--------------------------|--------------|--------------|
| | | | Span/180 Lbs | Span/240 Lbs | Span/360 Lbs |
| 18 | 1,650* | 0.01 | 1,650* | 1,650* | 1,650* |
| 24 | 1,650* | 0.03 | 1,650* | 1,650* | 1,650* |
| 36 | 1,350 | 0.09 | 1,350 | 1,350 | 1,350 |
| 48 | 1,010 | 0.16 | 1,010 | 1,010 | 820 |
| 60 | 810 | 0.26 | 810 | 790 | 530 |
| 72 | 670 | 0.37 | 670 | 550 | 370 |
| 84 | 580 | 0.50 | 540 | 400 | 270 |
| 96 | 510 | 0.66 | 410 | 310 | 210 |
| 108 | 450 | 0.83 | 330 | 240 | 160 |
| 120 | 400 | 1.01 | 260 | 200 | 130 |

A1000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 1,960 | 5,900 | 5,430 | 4,800 | 4,210 |
| 24 | 1,840 | 5,210 | 4,590 | 3,850 | 3,220 |
| 36 | 1,500 | 3,940 | 3,220 | 2,480 | 2,010 |
| 48 | 1,220 | 2,950 | 2,300 | 1,790 | 1,460 |
| 60 | 1,020 | 2,260 | 1,790 | 1,400 | 1,130 |
| 72 | 880 | 1,840 | 1,460 | 1,130 | 910 |
| 84 | 780 | 1,550 | 1,230 | 940 | ** |
| 96 | 690 | 1,340 | 1,050 | ** | ** |
| 108 | 620 | 1,170 | 910 | ** | ** |

A1001 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 3,530 | 13,300 | 12,920 | 12,400 | 11,880 |
| 24 | 3,480 | 12,750 | 12,220 | 11,550 | 10,950 |
| 36 | 3,370 | 11,630 | 10,950 | 10,220 | 9,150 |
| 48 | 3,260 | 10,680 | 10,020 | 8,260 | 6,500 |
| 60 | 2,960 | 9,930 | 8,260 | 6,080 | 4,270 |
| 72 | 2,630 | 8,480 | 6,500 | 4,270 | 2,970 |
| 84 | 2,260 | 7,040 | 4,900 | 3,140 | 2,180 |
| 96 | 1,940 | 5,680 | 3,750 | 2,400 | ** |
| 108 | 1,670 | 4,490 | 2,970 | ** | ** |
| 120 | 1,440 | 3,640 | 2,400 | ** | ** |

A1000/A1001 - ELEMENTS OF SECTION

| Parameter | A1000 | | A1001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.305 | In ² | 0.609 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.061 | In ⁴ | 0.302 | In ⁴ |
| Section Modulus (S) | 0.086 | In ³ | 0.242 | In ³ |
| Radius of Gyration (r) | 0.447 | In | 0.704 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.078 | In ⁴ | 0.156 | In ⁴ |
| Section Modulus (S) | 0.125 | In ³ | 0.250 | In ³ |
| Radius of Gyration (r) | 0.506 | In | 0.506 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 177 for reduction factors for unbraced lengths.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.



1/4" System

13/16" System

Fiberglass System

Special Metals

PrimeAngle

Metal Grating

Roofwalk

Index

A1000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|---------|-------------------------------|--------------------------|-------------------------------|-------------|-------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 3.2 | 2 | 3.2 | 3.2 | 3.1 |
| 750 | 2.6 | 3 | 2.6 | 2.6 | 2.0 |
| 1,000 | 2.0 | 5 | 2.0 | 1.6 | 1.1 |
| 1,250 | 1.6 | 8 | 1.4 | 1.1 | 0.7 |
| 1,500 | 1.3 | 11 | 1.0 | 0.7 | 0.5 |
| 1,750 | 1.1 | 15 | 0.7 | 0.5 | 0.4 |
| 2,000 | 1.0 | 20 | 0.5 | 0.4 | 0.3 |
| 2,500 | 0.8 | 32 | 0.4 | 0.3 | 0.2 |
| 3,000 | 0.7 | 46 | 0.2 | 0.2 | 0.1 |

A1001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|---------|-------------------------------|--------------------------|-------------------------------|-------------|-------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 7.3* | 1 | 7.3* | 7.3* | 7.3 |
| 750 | 7.3* | 2 | 7.3* | 7.3* | 7.3 |
| 1,000 | 5.5 | 3 | 5.5 | 5.5 | 5.5 |
| 1,250 | 4.4 | 4 | 4.4 | 4.4 | 3.5 |
| 1,500 | 3.6 | 6 | 3.6 | 3.6 | 2.4 |
| 1,750 | 3.2 | 9 | 3.2 | 2.7 | 1.8 |
| 2,000 | 2.8 | 11 | 2.7 | 2.0 | 1.4 |
| 2,500 | 2.2 | 17 | 1.7 | 1.3 | 0.9 |
| 3,000 | 1.8 | 25 | 1.2 | 0.9 | 0.6 |
| 3,500 | 1.6 | 34 | 0.9 | 0.7 | 0.4 |

A1000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Max. Column Load Applied at C.G. | | | |
|--------------------|--|----------------------------------|-------------|------------|------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 8.2 | 23.4 | 20.7 | 17.3 | 14.6 |
| 750 | 7.5 | 20.5 | 17.3 | 14.0 | 11.3 |
| 1,000 | 6.3 | 16.2 | 13.0 | 9.9 | 8.1 |
| 1,250 | 5.3 | 12.8 | 9.9 | 7.7 | 6.3 |
| 1,500 | 4.6 | 10.2 | 8.1 | 6.3 | 5.2 |
| 1,750 | 4.1 | 8.6 | 6.8 | 5.3 | 4.3 |
| 2,000 | 3.6 | 7.4 | 5.9 | 4.5 | ** |
| 2,250 | 3.3 | 6.5 | 5.2 | 3.9 | ** |
| 2,500 | 3.0 | 5.8 | 4.5 | ** | ** |
| 2,750 | 2.7 | 5.2 | 4.0 | ** | ** |

A1001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Max. Column Load Applied at C.G. | | | |
|--------------------|--|----------------------------------|-------------|------------|------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 15.5 | 56.9 | 54.5 | 51.6 | 48.9 |
| 750 | 15.2 | 54.4 | 51.6 | 48.4 | 45.7 |
| 1,000 | 14.9 | 50.4 | 47.4 | 43.9 | 37.4 |
| 1,250 | 14.4 | 47.2 | 43.9 | 35.7 | 27.8 |
| 1,500 | 13.3 | 44.6 | 37.4 | 27.8 | 19.6 |
| 1,750 | 12.1 | 39.4 | 30.9 | 20.7 | 14.4 |
| 2,000 | 10.8 | 34.1 | 24.8 | 15.9 | 11.0 |
| 2,250 | 9.5 | 29.0 | 19.6 | 12.5 | ** |
| 2,500 | 8.4 | 24.1 | 15.9 | 10.2 | ** |
| 2,750 | 7.4 | 19.9 | 13.1 | ** | ** |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

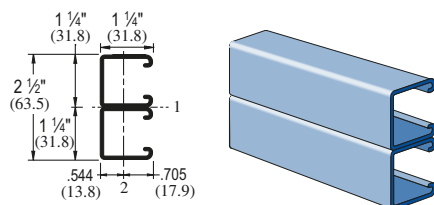
- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 177 for reduction factors for unbraced lengths.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

Finishes: PL, GR, HG, PG Standard Lengths: 10' & 20'

A1000/A1001 - ELEMENTS OF SECTION (METRIC)

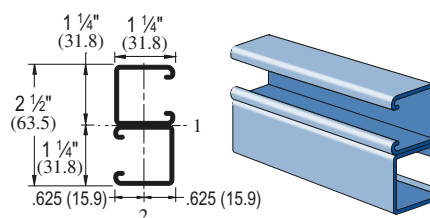
| Parameter | A1000 | | A1001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 1.96 | cm ² | 3.93 | cm ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 2.53 | cm ⁴ | 12.57 | cm ⁴ |
| Section Modulus (S) | 1.41 | cm ³ | 3.96 | cm ³ |
| Radius of Gyration (r) | 1.14 | cm | 1.79 | cm |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 3.25 | cm ⁴ | 6.50 | cm ⁴ |
| Section Modulus (S) | 2.05 | cm ³ | 4.09 | cm ³ |
| Radius of Gyration (r) | 1.29 | cm | 1.29 | cm |

A1001A - 1 1/4" x 2 1/2"



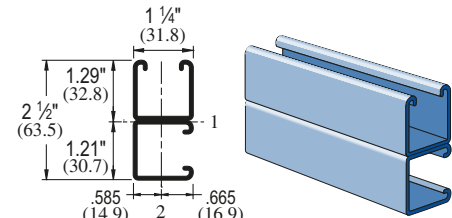
Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 7,930 In-Lbs (900 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1001B - 1 1/4" x 2 1/2"



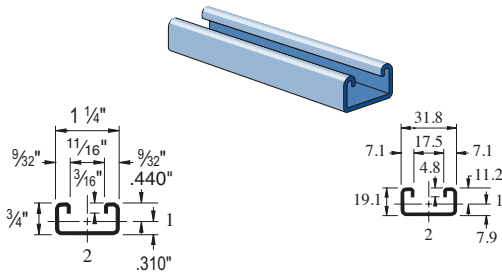
Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 7,930 In-Lbs (900 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1001C - 1 1/4" x 2 1/2"



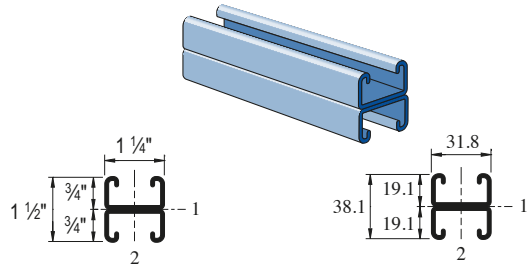
Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 6,760 In-Lbs (760 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A3300 – 1 1/4" x 3/4"



Wt/100 Ft: 78 Lbs (116 kg/100m)
 Allowable Moment 950 In-Lbs (110 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A3301 – 1 1/4" x 1 1/2"



Wt/100 Ft: 156 Lbs (232 kg/100m)
 Allowable Moment 2,590 In-Lbs (290 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A3300 - BEAM LOADING

| 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 | 420 | 0.07 | 420 | 420 | 320 |
| 24 | 320 | 0.12 | 320 | 270 | 180 |
| 36 | 210 | 0.26 | 160 | 120 | 80 |
| 48 | 160 | 0.47 | 90 | 70 | 50 |
| 60 | 130 | 0.75 | 60 | 40 | 30 |
| 72 | 110 | 1.09 | 40 | 30 | 20 |
| 84 | 90 | 1.42 | 30 | 20 | 10 |
| 96 | 80 | 1.88 | 20 | 20 | 10 |

A3301 - BEAM LOADING

| 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 | 990* | 0.03 | 990* | 990* | 990* |
| 24 | 860 | 0.07 | 860 | 860 | 850 |
| 36 | 580 | 0.15 | 580 | 560 | 380 |
| 48 | 430 | 0.27 | 420 | 320 | 210 |
| 60 | 350 | 0.43 | 270 | 200 | 140 |
| 72 | 290 | 0.62 | 190 | 140 | 90 |
| 84 | 250 | 0.85 | 140 | 100 | 70 |
| 96 | 220 | 1.11 | 110 | 80 | 50 |

A3300 - COLUMN LOADING

| Unbraced Height In | Maximum Allowable Load at Slot Face Lbs | Max. Column Load Applied at C.G. | | | |
|--------------------|---|----------------------------------|--------------|-------------|-------------|
| | | K = 0.65 Lbs | K = 0.80 Lbs | K = 1.0 Lbs | K = 1.2 Lbs |
| 18 | 1,430 | 4,490 | 4,210 | 3,860 | 3,550 |
| 24 | 1,370 | 4,090 | 3,750 | 3,310 | 2,680 |
| 36 | 1,190 | 3,390 | 2,680 | 1,820 | 1,260 |
| 48 | 900 | 2,380 | 1,600 | 1,020 | ** |
| 60 | 680 | 1,550 | 1,020 | ** | ** |

A3301 - COLUMN LOADING

| Unbraced Height In | Maximum Allowable Load at Slot Face Lbs | Max. Column Load Applied at C.G. | | | |
|--------------------|---|----------------------------------|--------------|-------------|-------------|
| | | K = 0.65 Lbs | K = 0.80 Lbs | K = 1.0 Lbs | K = 1.2 Lbs |
| 18 | 2,540 | 9,890 | 9,620 | 9,300 | 9,020 |
| 24 | 2,510 | 9,510 | 9,200 | 8,710 | 7,960 |
| 36 | 2,410 | 8,800 | 7,960 | 6,730 | 5,490 |
| 48 | 2,230 | 7,560 | 6,320 | 4,690 | 3,310 |
| 60 | 1,970 | 6,210 | 4,690 | 3,050 | 2,120 |
| 72 | 1,650 | 4,890 | 3,310 | 2,120 | ** |
| 84 | 1,380 | 3,680 | 2,430 | ** | ** |
| 96 | 1,160 | 2,820 | 1,860 | ** | ** |

A3300/A3301 - ELEMENTS OF SECTION

| Parameter | A3300 | | A3301 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.230 | In ² | 0.459 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.017 | In ⁴ | 0.077 | In ⁴ |
| Section Modulus (S) | 0.038 | In ³ | 0.103 | In ³ |
| Radius of Gyration (r) | 0.269 | In | 0.411 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.052 | In ⁴ | 0.104 | In ⁴ |
| Section Modulus (S) | 0.083 | In ³ | 0.167 | In ³ |
| Radius of Gyration (r) | 0.477 | In | 0.477 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 177 for reduction factors for unbraced lengths.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.

A3300 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|---------|-------------------------------|--------------------------|-------------------------------|-------------|-------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 1.4 | 3 | 1.4 | 1.2 | 0.8 |
| 750 | 1.2 | 5 | 1.1 | 0.8 | 0.5 |
| 1,000 | 0.8 | 8 | 0.6 | 0.4 | 0.3 |
| 1,250 | 0.7 | 12 | 0.4 | 0.3 | 0.2 |
| 1,500 | 0.6 | 18 | 0.3 | 0.2 | 0.1 |
| 1,750 | 0.5 | 24 | 0.2 | 0.1 | 0.1 |
| 2,000 | 0.4 | 33 | 0.1 | 0.1 | 0.1 |

A3301 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|---------|-------------------------------|--------------------------|-------------------------------|-------------|-------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 600 | 3.9 | 2 | 3.9 | 3.9 | 3.9 |
| 750 | 3.1 | 3 | 3.1 | 3.1 | 2.5 |
| 1,000 | 2.4 | 5 | 2.4 | 2.1 | 1.4 |
| 1,250 | 1.9 | 7 | 1.8 | 1.3 | 0.9 |
| 1,500 | 1.6 | 10 | 1.2 | 0.9 | 0.6 |
| 1,750 | 1.3 | 14 | 0.9 | 0.7 | 0.4 |
| 2,000 | 1.2 | 18 | 0.7 | 0.5 | 0.4 |
| 2,500 | 0.9 | 29 | 0.4 | 0.4 | 0.2 |
| 3,000 | 0.8 | 43 | 0.3 | 0.2 | 0.1 |

A3300 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Max. Column Load Applied at C.G. | | | |
|--------------------|--|----------------------------------|-------------|------------|------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 6.1 | 18.3 | 16.8 | 14.9 | 12.2 |
| 750 | 5.8 | 16.7 | 14.9 | 11.5 | 8.4 |
| 1,000 | 4.9 | 13.8 | 10.4 | 6.8 | 4.7 |
| 1,250 | 3.9 | 10.1 | 6.8 | 4.3 | ** |
| 1,500 | 3.1 | 7.1 | 4.7 | ** | ** |

A3301 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Max. Column Load Applied at C.G. | | | |
|--------------------|--|----------------------------------|-------------|------------|------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 600 | 11.2 | 42.4 | 41.0 | 39.0 | 35.7 |
| 750 | 11.0 | 40.9 | 39.0 | 34.9 | 30.4 |
| 1,000 | 10.5 | 37.7 | 33.4 | 27.4 | 21.4 |
| 1,250 | 9.8 | 33.0 | 27.4 | 20.0 | 14.0 |
| 1,500 | 8.9 | 28.1 | 21.4 | 14.0 | 9.7 |
| 1,750 | 7.7 | 23.2 | 16.1 | 10.3 | ** |
| 2,000 | 6.7 | 18.6 | 12.3 | 7.9 | ** |
| 2,250 | 5.8 | 14.7 | 9.7 | ** | ** |
| 2,500 | 5.0 | 11.9 | 7.9 | ** | ** |

A3300/A3301 - ELEMENTS OF SECTION (METRIC)

| Parameter | A3300 | | A3301 | |
|------------------------|-------|-----------------|-------|-----------------|
| | Value | Unit | Value | Unit |
| Area of Section | 1.48 | cm ² | 2.96 | cm ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.69 | cm ⁴ | 3.22 | cm ⁴ |
| Section Modulus (S) | 0.62 | cm ³ | 1.69 | cm ³ |
| Radius of Gyration (r) | 0.68 | cm | 1.04 | cm |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 2.17 | cm ⁴ | 4.34 | cm ⁴ |
| Section Modulus (S) | 1.37 | cm ³ | 2.73 | cm ³ |
| Radius of Gyration (r) | 1.21 | cm | 1.21 | cm |

Notes:

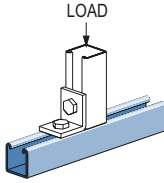
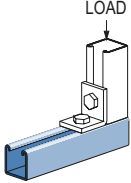
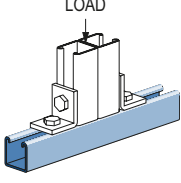
* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

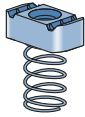

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 177 for reduction factors for unbraced lengths.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.

BEARING LOADS ON UNISTRUT CHANNEL



| | | | |
|---|---|---|---|
| Loads are calculated based on 2001 Specification For The Design Of Cold Formed Steel Structural Members published by AISI |  |  |  |
| | Bearing Length 1 1/4" (31.8 mm) Maximum Allowable Loads - Lbs (kN) | Bearing Length 1 1/4" (31.8 mm) Maximum Allowable Loads - Lbs (kN) | Bearing Length 2 1/2" (63.5 mm) Maximum Allowable Loads - Lbs (kN) |
| | A1000 3,700 (16.46) | 1,700 (7.56) | 4,300 (19.13) |
| A3300 3,800 (16.90) | 1,700 (7.56) | 4,300 (19.13) | |

CHANNEL NUT WITH SPRING



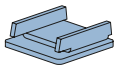
|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|----------|
| | A1006-1420 | 1/4" -20 | 6 (2.7) | A1000 |
| | A1007 | 5/16" -18 | 6 (2.7) | |
| | A1008 | 3/8" -16 | 6 (2.7) | |
|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
| | A4006-1420 | 1/4" -20 | 5 (2.3) | A3300 |
| | A4007 | 5/16" -18 | 5 (2.3) | |
| | A4008 | 3/8" -16 | 5 (2.3) | |

CHANNEL NUT WITHOUT SPRINGS

|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|----------------|
| | A3006-1420 | 1/4" -20 | 5 (2.3) | A1000 or A3300 |
| | A3007 | 5/16" -18 | 5 (2.3) | |
| | A3008 | 3/8" -16 | 5 (2.3) | |
|  | Part Number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
| | A3016-0832 | #8 -32 | 1 (0.5) | A1000 or A3300 |
| | A3016-1024 | #10 -24 | 1 (0.5) | |
| | A3016-1032 | #10 -32 | 1 (0.5) | |
| | A3016-1420 | 1/4" -20 | 1 (0.5) | |

A1280

END CAP



Material: .075" (1.9)
Note: Use with A1000 channel
Wt/100 pcs: 7 Lbs (3.2 kg)

A4280

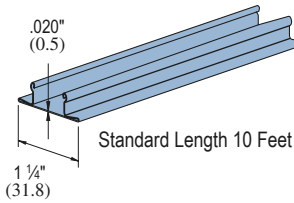
END CAP



Material: .075" (1.9)
Note: Use with A3300 channel

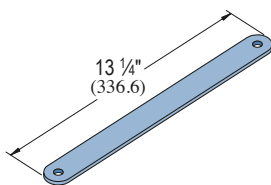
A1184

CLOSURE STRIP



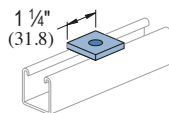
Finish: Perma-Green II (GR), Plain (PL).
Wt/100 Ft: 21 Lbs (31.3 kg/100M)

A1191



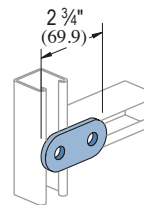
Wt/100 pcs: 87 Lbs (39.5 kg)

A1063



Wt/100 pcs: 8 Lbs (3.6 kg)

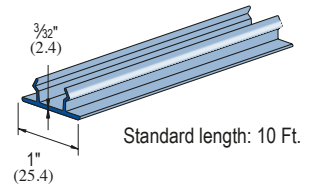
A1065



Wt/100 pcs: 17 Lbs (7.7 kg)

A1184P

CLOSURE STRIP



Material: Paintable PVC.
Color: Green, Grey.

Wt/100 Ft: 21 Lbs (31.3 kg/100M)

Standard Dimensions for 1 1/4" (31.8 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 1 3/32" (10.3mm); Hole Spacing - From End: 5/8" (15.9 mm); Hole Spacing - On Center: 1 1/2" (38.1mm); Width: 1 1/4" (31.8mm); Thickness: 3/16" (4.8mm)



1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

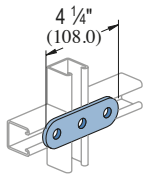
PrimeAngle

Metal Grating

Roofwalk

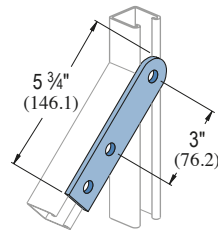
Index

A1066



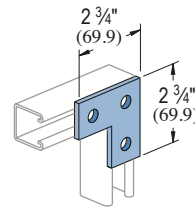
Wt/100 pcs: 26 Lbs (11.8 kg)

A2324



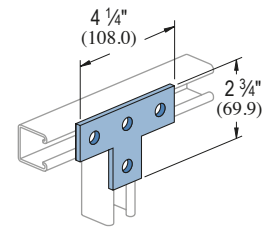
Wt/100 pcs: 39 Lbs (17.7 kg)

A1036



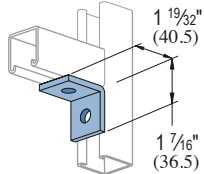
Wt/100 pcs: 27 Lbs (12.2 kg)

A1031



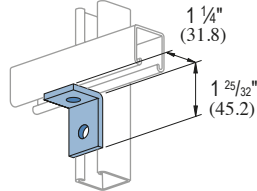
Wt/100 pcs: 34 Lbs (15.4 kg)

A1026



Wt/100 pcs: 17 Lbs (7.7 kg)

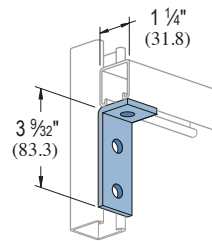
A1068



Wt/100 pcs: 17 Lbs (7.7 kg)

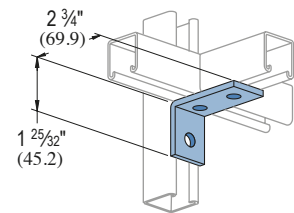


A1326



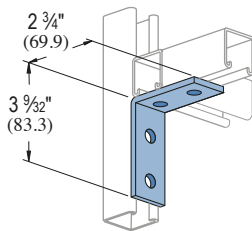
Wt/100 pcs: 27 Lbs (12.2 kg)

A1458



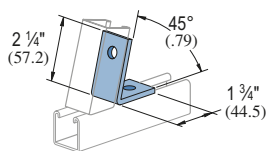
Wt/100 pcs: 27 Lbs (12.2 kg)

A1325



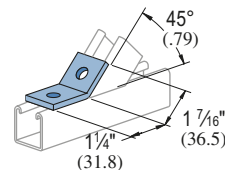
Wt/100 pcs: 38 Lbs (17.2 kg)

A2110



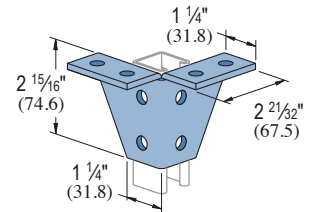
Wt/100 pcs: 23 Lbs (10.4 kg)

A2126



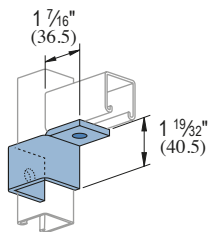
Wt/100 pcs: 17 Lbs (7.7 kg)

A2084



Wt/100 pcs: 90 Lbs (40.8 kg)

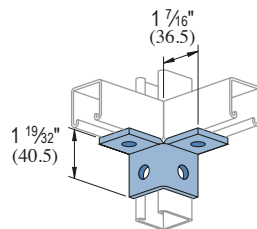
A2472 R-L



R-As shown
L-Opposite hand

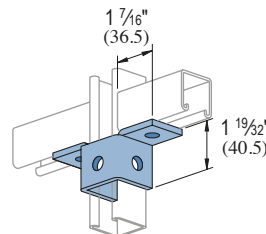
Wt/100 pcs: 33 Lbs (15.0 kg)

A2223



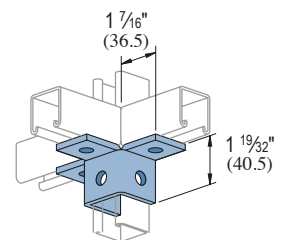
Wt/100 pcs: 34 Lbs (15.4 kg)

A2345



Wt/100 pcs: 41 Lbs (18.6 kg)

A2227

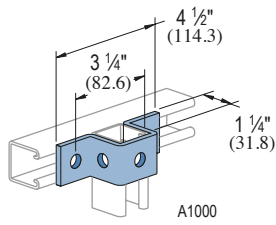


Wt/100 pcs: 52 Lbs (23.6 kg)

Standard Dimensions for 1 1/4" (31.8 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

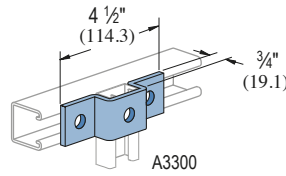
Hole Diameter: 1 3/32" (10.3mm); Hole Spacing - From End: 5/8" (15.9 mm); Hole Spacing - On Center: 1 1/2" (38.1mm); Width: 1 1/4" (31.8mm); Thickness: 3/16" (4.8mm)

A1047



Wt/100 pcs: 43 Lbs (19.5 kg)

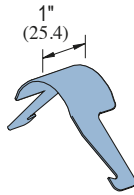
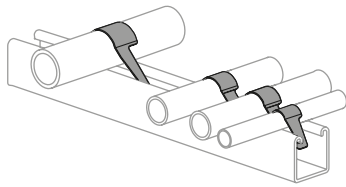
A3347



Wt/100 pcs: 37 Lbs (16.8 kg)

A2608 THRU A2617

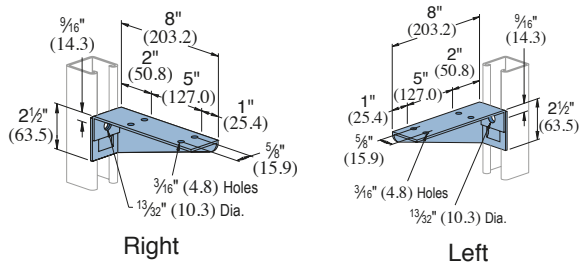
UNI-CLIP®



| Part Number | Pipe Size In (mm) | O.D. Size In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------------|-------------------|---------------------|
| A2608 | 1/4 (6.4) | 0.540 (13.7) | 0.6 (0.3) |
| A2609 | 3/8 (9.5) | 0.675 (17.1) | 0.7 (0.3) |
| A2611 | 1/2 (12.7) | 0.840 (21.3) | 1.0 (0.5) |
| A2612 | 3/4 (19.1) | 1.050 (26.7) | 1.4 (0.6) |
| A2613 | 1 (25.4) | 1.35 (33.4) | 2.0 (0.9) |
| A2614 | 1 1/4 (31.8) | 1.660 (42.2) | 2.4 (1.1) |
| A2615 | 1 1/2 (38.1) | 1.900 (48.3) | 3.2 (1.5) |
| A2617 | 2 (50.8) | 2.375 (60.3) | 4.7 (2.1) |

Stainless steel, Type 301.

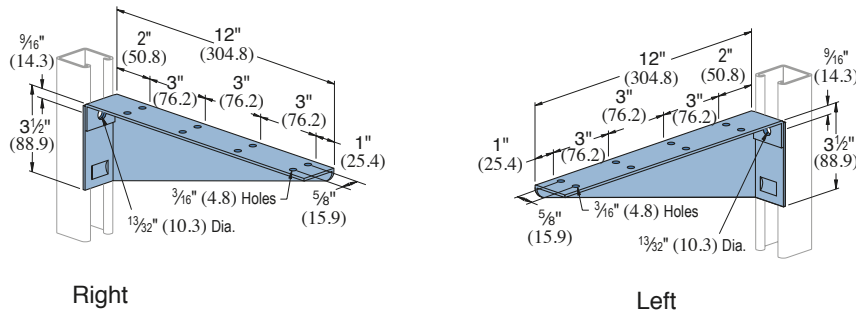
A2492 R-L



Design Uniform Load
(Channel Upright Listed)
A1000 200 Lbs (.89 kN)
A3300 130 Lbs (.58 kN)
Safety Factor of 2 1/2
Material: 14 Gauge Steel.

Wt/100 pcs: 56 Lbs (25.4 kg)

A2494 R-L



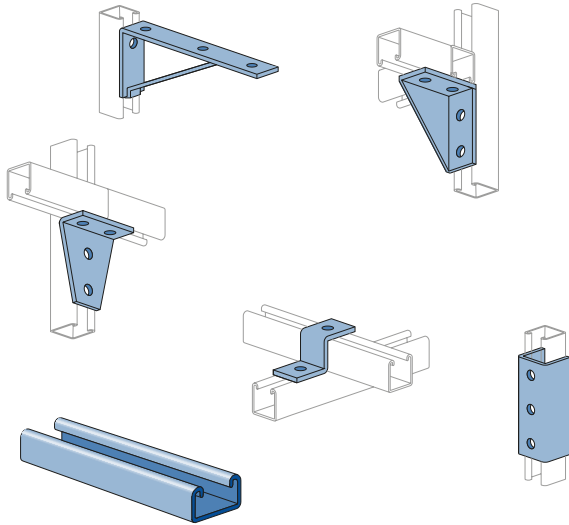
Design Uniform Load
(Channel Upright Listed)
A1000 200 Lbs (.89 kN)
A3300 130 Lbs (.58 kN)
Safety Factor of 2 1/2

Material: 14 Gauge Steel.

Wt/100 pcs: 94 Lbs (42.6 kg)

Standard Dimensions for 1 1/4" (31.8 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 1 3/32" (10.3mm); Hole Spacing - From End: 5/8" (15.9 mm); Hole Spacing - On Center: 1 1/2" (38.1mm); Width: 1 1/4" (31.8mm); Thickness: 3/16" (4.8mm)

1³/₁₆" FRAMING SYSTEM



| | |
|--|---------|
| P6000 (19 Gauge) | 179-181 |
| P7000 (19 Gauge) | 182-183 |
| Channel Nuts, End Caps, and Closure Strips | 184 |
| Flat Plate Fittings | 184-185 |
| Ninety Degree Fittings..... | 185 |
| Angular Fittings, Wing Shape Fittings | 186 |
| "Z" Shape Fittings..... | 186 |
| "U" Shape Fittings | 186-187 |
| Special Application Fittings..... | 187 |
| Beam Clamps..... | 187 |
| Tubing Clips..... | 187 |

MATERIAL

Channels are accurately and carefully cold formed to size from low-carbon strip steel.

STEEL: PLAIN

19 Gauge (1.0 mm) ASTM A1008

STEEL: PRE-GALVANIZED

19 Gauge (1.0 mm) ASTM A653 GR 33

All nuts are manufactured from mild steel bars conforming to ASTM A1011 SS Grade 33.

Fittings are made from hot rolled, pickled and oiled steel plate or strip and conform to ASTM A1011 SS GR 33.

FINISHES

Channels are available in: Perma-Green III (GR), electro-galvanized (EG), Pre-galvanized (PG), conforming to ASTM A653 GR 33 and plain (PL).

Nuts are available in plain or electro-galvanized (EG) finish.

Fittings are available in Perma-Green III, electrogalvanized (EG) with zinc electrolytically to commercial standards ASTM B653-G90 Type III SC1; or plain (PL).

STANDARD LENGTHS

P-6000 – 16 Feet (4.88m)

P-7000 – 10 Feet (3.05m)

Tolerances are +¹/₈" (3.2 mm) to +¹/₂" (12.7 mm) to allow for cutting. Special lengths are available for a small cutting charge with a tolerance of ±¹/₈" (3.2mm).

APPLICATION

A unique half-size reduction of the 1⁵/₈" channel width series, this smaller channel size can be used to carry light loads economically in applications such as instrumentation, retail displays and light-duty laboratory supports. It also provides the flexibility found in all Unistrut® framing systems.

DESIGN BOLT TORQUE

| BOLT SIZE | 1/4"-20 | Rec. Torque Ft/Lbs (N•m) | 6 (8) | Max Torque Ft/Lbs (N•m) | 7 (9) |
|-----------|---------|--------------------------|-------|-------------------------|-------|
|-----------|---------|--------------------------|-------|-------------------------|-------|

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

LOAD DATA

All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD. Loads are based on 33 ksi steel cold formed to 42 ksi.

| 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 |

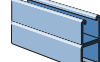
P6000 Series

P7000 Series

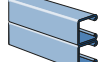
13/16" x 13/16"
19 Ga.



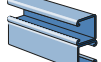
P6000 - Pg 180



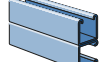
P6001 - Pg 180



P6001 A - Pg 181

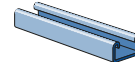


P6001 B - Pg 181

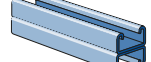


P6001 C - Pg 181

13/16" x 13/32"
19 Ga.



P7000 - Pg 182



P7001 - Pg 182

Channel Nuts & Closures

13/16" Series Fittings



P6006-0832 - Pg 184



P7006-0832 - Pg 184



P6280 - Pg 184



P7280 - Pg 184



P6184P - Pg 184



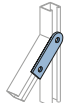
P6062 - Pg 184



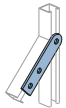
P6065 - Pg 184



P6924 - Pg 184



P7325 - Pg 184



P7324 - Pg 184



P6925 - Pg 184



P6066 - Pg 184



P6067 - Pg 184



P6962 - Pg 184



P6356 A - Pg 184



P6358 A - Pg 184



P6726 A - Pg 184



P6334 - Pg 184



P6380 - Pg 184



P6036 - Pg 184



P6380 A - Pg 184



P6031 - Pg 185



P6028 - Pg 185



P6026 - Pg 185



P6068 - Pg 185



P6281 - Pg 185



P6069 - Pg 185



P6326 - Pg 185



P6346 - Pg 185



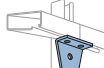
P6458 - Pg 185



P6325 - Pg 185



P6357 - Pg 185



P6359-Pg 185



P6579-Pg 185



P7235-Pg 185



P6887-Pg 185



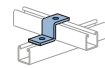
P6331-Pg 185



P6332-Pg 186



P6546-Pg 186



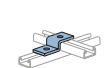
P6045-Pg 186



P6186-Pg 186



P6454-Pg 186



P7045-Pg 186



P6453-Pg 186



P6047-Pg 186



P6737-Pg 186



P6048-Pg 186



P6376-Pg 186



P7376-Pg 186



P6376 A-Pg 186



P7376 A-Pg 186



P6377-Pg 186



P7377-Pg 186



P6455-Pg 187



P6973-Pg 187



P6349-Pg 187



P6353-Pg 187



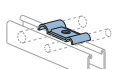
P6127-Pg 187



P6386-Pg 187



P6379 S-Pg 187



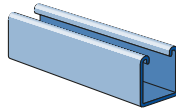
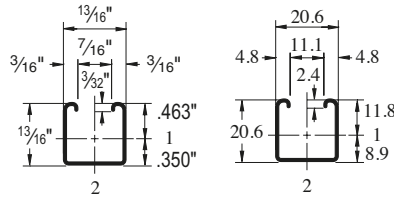
P6805-Pg 187



P7008-Pg 187

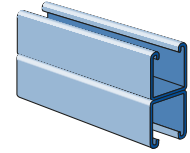
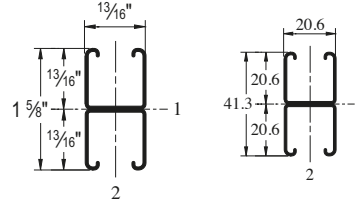


P6000



Wt/100 Ft: 36 Lbs (54 kg/100 m)
 Allowable Moment 510 In-Lbs (60 N·m)
 19 Gauge Nominal Thickness .040" (1.0 mm)

P6001



Wt/100 Ft: 73 Lbs (108 kg/100 m)
 Allowable Moment 1,390 In-Lbs (160 N·m)
 19 Gauge Nominal Thickness .040" (1.0 mm)

P6000 - BEAM LOADING

| 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 |
| 66 | 60 | 0.82 | 30 | 20 | 10 |
| 72 | 60 | 1.06 | 20 | 20 | 10 |

P6001 - BEAM LOADING

| 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 | 620 | 0.04 | 620 | 620 | 620 |
| 24 | 460 | 0.06 | 460 | 460 | 460 |
| 30 | 370 | 0.10 | 370 | 370 | 320 |
| 36 | 310 | 0.14 | 310 | 310 | 220 |
| 42 | 270 | 0.20 | 270 | 240 | 160 |
| 48 | 230 | 0.25 | 230 | 180 | 120 |
| 54 | 210 | 0.32 | 190 | 150 | 100 |
| 60 | 190 | 0.40 | 160 | 120 | 80 |
| 66 | 170 | 0.48 | 130 | 100 | 70 |
| 72 | 150 | 0.55 | 110 | 80 | 50 |

P6000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |
| 66 | 210 | 370 | 300 | ** | ** |
| 72 | 180 | 340 | 270 | ** | ** |

P6001 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 1,210 | 4,320 | 4,080 | 3,770 | 3,500 |
| 24 | 1,170 | 3,980 | 3,680 | 3,330 | 3,060 |
| 30 | 1,130 | 3,650 | 3,330 | 3,000 | 2,460 |
| 36 | 1,070 | 3,370 | 3,060 | 2,460 | 1,800 |
| 42 | 1,020 | 3,140 | 2,690 | 1,900 | 1,320 |
| 48 | 900 | 2,930 | 2,230 | 1,460 | 1,010 |
| 54 | 820 | 2,550 | 1,800 | 1,150 | 800 |
| 60 | 700 | 2,180 | 1,460 | 930 | ** |
| 66 | 700 | 1,830 | 1,210 | 770 | ** |
| 72 | 550 | 1,530 | 1,010 | ** | ** |

P6000 & P6001 - ELEMENTS OF SECTION

| Parameter | P6000 | | P6001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.107 | In ² | 0.213 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.009 | In ⁴ | 0.045 | In ⁴ |
| Section Modulus (S) | 0.020 | In ³ | 0.055 | In ³ |
| Radius of Gyration (r) | 0.295 | In | 0.460 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.012 | In ⁴ | 0.024 | In ⁴ |
| Section Modulus (S) | 0.029 | In ³ | 0.058 | In ³ |
| Radius of Gyration (r) | 0.333 | In | 0.333 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 186 for reduction factors for unbraced lengths.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P6000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 300 | 1.5 | 1 | 1.5 | 1.5 | 1.5 |
| 450 | 1.0 | 2 | 1.0 | 1.0 | 0.8 |
| 600 | 0.8 | 3 | 0.8 | 0.7 | 0.5 |
| 750 | 0.6 | 4 | 0.6 | 0.4 | 0.3 |
| 1,000 | 0.4 | 7 | 0.4 | 0.3 | 0.2 |
| 1,250 | 0.4 | 11 | 0.2 | 0.2 | 0.1 |
| 1,500 | 0.3 | 17 | 0.1 | 0.1 | 0.1 |
| 1,750 | 0.3 | 24 | 0.1 | 0.1 | 0.0 |

P6001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 300 | 2.9* | 0 | 2.9* | 2.9* | 2.9* |
| 450 | 2.8 | 1 | 2.8 | 2.8 | 2.8 |
| 600 | 2.1 | 2 | 2.1 | 2.1 | 2.1 |
| 750 | 1.7 | 2 | 1.7 | 1.7 | 1.5 |
| 1,000 | 1.2 | 4 | 1.2 | 1.2 | 0.8 |
| 1,250 | 1.0 | 7 | 1.0 | 0.8 | 0.5 |
| 1,500 | 0.8 | 10 | 0.7 | 0.5 | 0.4 |
| 1,750 | 0.7 | 13 | 0.5 | 0.4 | 0.3 |
| 2,000 | 0.6 | 17 | 0.4 | 0.3 | 0.2 |

P6000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 300 | 3.1 | 9.2 | 8.4 | 7.3 | 6.3 |
| 450 | 2.7 | 7.5 | 6.3 | 5.0 | 3.9 |
| 600 | 2.2 | 5.9 | 4.6 | 3.4 | 2.7 |
| 750 | 1.8 | 4.5 | 3.4 | 2.5 | 2.0 |
| 1,000 | 1.4 | 3.0 | 2.4 | 1.8 | 1.5 |
| 1,250 | 1.1 | 2.3 | 1.8 | 1.4 | 1.2 |
| 1,500 | 0.9 | 1.9 | 1.5 | 1.2 | ** |
| 1,750 | 0.8 | 1.6 | 1.2 | ** | ** |

P6001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 300 | 5.5 | 20.7 | 20.1 | 19.2 | 18.2 |
| 450 | 5.4 | 19.3 | 18.2 | 16.9 | 15.7 |
| 600 | 5.2 | 17.8 | 16.5 | 14.9 | 13.7 |
| 750 | 5.0 | 16.4 | 14.9 | 13.5 | 11.2 |
| 1,000 | 4.6 | 14.4 | 12.9 | 9.5 | 6.7 |
| 1,250 | 3.9 | 12.7 | 9.5 | 6.2 | 4.3 |
| 1,500 | 3.2 | 9.9 | 6.7 | 4.3 | ** |
| 1,750 | 2.6 | 7.5 | 4.9 | ** | ** |
| 2,000 | 2.2 | 5.7 | 3.8 | ** | ** |

P6000 & P6001 - ELEMENTS OF SECTION (METRIC)

| Parameter | P6000 | P6001 |
|------------------------|----------------------|----------------------|
| Area of Section | 0.69 cm ² | 1.38 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 0.39 cm ⁴ | 1.88 cm ⁴ |
| Section Modulus (S) | 0.33 cm ³ | 0.91 cm ³ |
| Radius of Gyration (r) | 0.75 cm | 1.17 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 0.49 cm ⁴ | 0.99 cm ⁴ |
| Section Modulus (S) | 0.48 cm ³ | 0.96 cm ³ |
| Radius of Gyration (r) | 0.85 cm | 0.85 cm |

Notes:

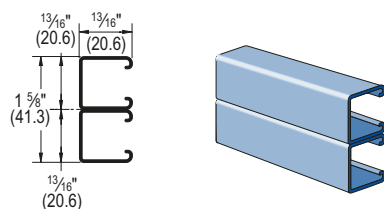
* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

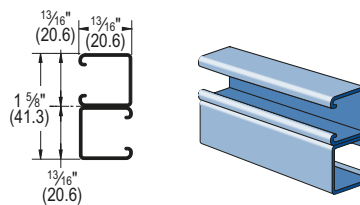
- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 186 for reduction factors for unbraced lengths.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P6001A



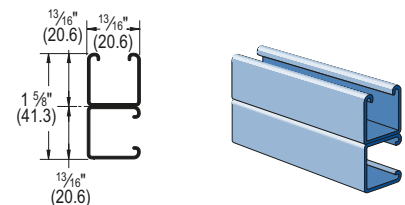
Wt/100 Ft: 73 Lbs (108 kg/100 m)
 Allowable Moment 1,820 In-Lbs (210 N•m)
 19 Gauge Nominal Thickness .040" (1.0 mm)

P6001B



Wt/100 Ft: 73 Lbs (108 kg/100 m)
 Allowable Moment 1,820 In-Lbs (210 N•m)
 19 Gauge Nominal Thickness .040" (1.0 mm)

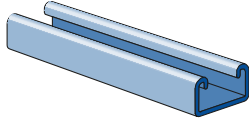
P6001C



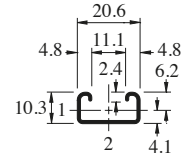
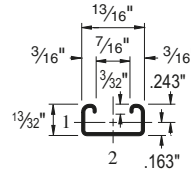
Wt/100 Ft: 73 Lbs (108 kg/100 m)
 Allowable Moment 1,550 In-Lbs (180 N•m)
 19 Gauge Nominal Thickness .040" (1.0 mm)



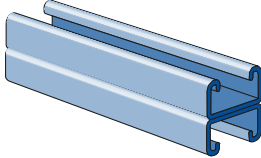
P7000



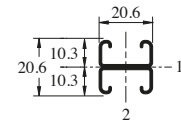
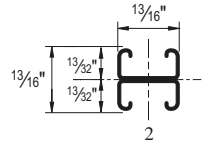
Wt/100 Ft: 25 Lbs (38 kg/100m)
 Allowable Moment 170 In-Lbs (20 N•m)
 19 Gauge Nominal Thickness .040" (1.0 mm)



P7001



Wt/100 Ft: 50 Lbs (75 kg/100m)
 Allowable Moment 450 In-Lbs (50 N•m)
 19 Gauge Nominal Thickness .040" (1.0 mm)



P7000 - BEAM LOADING

| 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 |

P7001 - BEAM LOADING

| 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 | 200 | 0.07 | 200 | 200 | 140 |
| 24 | 150 | 0.12 | 150 | 120 | 80 |
| 30 | 120 | 0.19 | 100 | 80 | 50 |
| 36 | 100 | 0.28 | 70 | 50 | 40 |
| 42 | 90 | 0.40 | 50 | 40 | 30 |
| 48 | 80 | 0.53 | 40 | 30 | 20 |

P7000 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | ** | ** |

P7001 - COLUMN LOADING

| Unbraced Height In | Maximum 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 | 790 | 2,930 | 2,690 | 2,330 | 1,960 |
| 24 | 740 | 2,570 | 2,210 | 1,720 | 1,260 |
| 30 | 680 | 2,180 | 1,720 | 1,160 | 800 |
| 36 | 580 | 1,780 | 1,260 | 800 | 560 |
| 42 | 500 | 1,400 | 920 | 590 | ** |
| 48 | 420 | 1,070 | 710 | ** | ** |
| 54 | 360 | 850 | 560 | ** | ** |

P7000 & P7001 - ELEMENTS OF SECTION

| Parameter | P7000 | | P7001 | |
|------------------------|-------|-----------------|-------|-----------------|
| Area of Section | 0.074 | In ² | 0.148 | In ² |
| Axis 1-1 | | | | |
| Moment of Inertia (I) | 0.002 | In ⁴ | 0.007 | In ⁴ |
| Section Modulus (S) | 0.007 | In ³ | 0.018 | In ³ |
| Radius of Gyration (r) | 0.150 | In | 0.222 | In |
| Axis 2-2 | | | | |
| Moment of Inertia (I) | 0.007 | In ⁴ | 0.014 | In ⁴ |
| Section Modulus (S) | 0.017 | In ³ | 0.034 | In ³ |
| Radius of Gyration (r) | 0.307 | In | 0.307 | In |

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 186 for reduction factors for unbraced lengths.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

P7000 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 300 | 0.5 | 1 | 0.5 | 0.5 | 0.4 |
| 450 | 0.4 | 3 | 0.3 | 0.2 | 0.1 |
| 600 | 0.3 | 5 | 0.2 | 0.1 | 0.1 |
| 750 | 0.2 | 9 | 0.1 | 0.1 | 0.0 |
| 1,000 | 0.2 | 16 | 0.0 | 0.0 | 0.0 |
| 1,250 | 0.1 | 24 | 0.0 | 0.0 | NR |
| 1,500 | 0.1 | 28 | 0.0 | NR | NR |

P7001 - BEAM LOADING (METRIC)

| Span mm | Max Allowable Uniform Load kN | Defl. at Uniform Load mm | Uniform Loading at Deflection | | |
|------------|--|-----------------------------------|-------------------------------|----------------|----------------|
| | | | Span/180 kN | Span/240 kN | Span/360 kN |
| 300 | 1.4 | 1 | 1.4 | 1.4 | 1.4 |
| 450 | 0.9 | 2 | 0.9 | 0.9 | 0.7 |
| 600 | 0.7 | 3 | 0.7 | 0.5 | 0.4 |
| 750 | 0.5 | 5 | 0.5 | 0.4 | 0.2 |
| 1,000 | 0.4 | 8 | 0.3 | 0.2 | 0.1 |
| 1,250 | 0.3 | 13 | 0.2 | 0.1 | 0.1 |
| 1,500 | 0.3 | 19 | 0.1 | 0.1 | NR |

P7000 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 300 | 2.1 | 6.4 | 6.0 | 5.3 | 4.5 |
| 450 | 1.9 | 5.4 | 4.5 | 3.3 | 2.3 |
| 600 | 1.5 | 4.1 | 2.9 | 1.9 | 1.3 |
| 750 | 1.2 | 2.8 | 1.9 | 1.2 | ** |

P7001 - COLUMN LOADING (METRIC)

| Unbraced Height mm | Maximum Allowable Load at Slot Face kN | Maximum Column Load Applied at C.G. | | | |
|--------------------------|--|-------------------------------------|----------------|---------------|---------------|
| | | K = 0.65 kN | K = 0.80 kN | K = 1.0 kN | K = 1.2 kN |
| 300 | 3.6 | 14.0 | 13.6 | 13.0 | 12.1 |
| 450 | 3.5 | 13.1 | 12.1 | 10.5 | 8.9 |
| 600 | 3.3 | 11.6 | 10.0 | 7.8 | 5.8 |
| 750 | 3.0 | 9.8 | 7.8 | 5.3 | 3.7 |
| 1,000 | 2.4 | 6.9 | 4.7 | 3.0 | ** |
| 1,250 | 1.8 | 4.5 | 3.0 | ** | ** |

P7000 & P7001 - ELEMENTS OF SECTION (METRIC)

| Parameter | P7000 | P7001 |
|------------------------|----------------------|----------------------|
| Area of Section | 0.48 cm ² | 0.96 cm ² |
| Axis 1-1 | | |
| Moment of Inertia (I) | 0.07 cm ⁴ | 0.31 cm ⁴ |
| Section Modulus (S) | 0.11 cm ³ | 0.30 cm ³ |
| Radius of Gyration (r) | 0.38 cm | 0.57 cm |
| Axis 2-2 | | |
| Moment of Inertia (I) | 0.29 cm ⁴ | 0.58 cm ⁴ |
| Section Modulus (S) | 0.28 cm ³ | 0.56 cm ³ |
| Radius of Gyration (r) | 0.78 cm | 0.78 cm |

Notes:

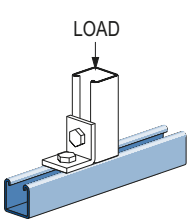
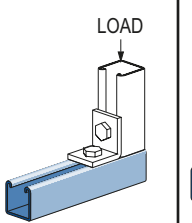
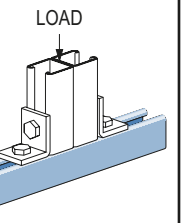
* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to table below for reduction factors for unbraced lengths.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.

BEARING LOADS ON UNISTRUT CHANNEL

| | | | |
|---|---|---|---|
| Loads are calculated based on 2001 Specification For The Design Of Cold Formed Steel Structural Members published by AISI |  |  |  |
| | Bearing Length 1 1/16" (20.6 mm) Maximum Allowable Loads - Lbs (kN) | Bearing Length 1 1/16" (20.6 mm) Maximum Allowable Loads - Lbs (kN) | Bearing Length 1 1/8" (41.3 mm) Maximum Allowable Loads - Lbs (kN) |
| | P6000 1,000 (4.45) | 500 (2.22) | 1,200 (5.34) |
| P7000 | 1,000 (4.45) | 500 (2.22) | 1,200 (5.34) |

LATERAL BRACING LOAD REDUCTION CHARTS

| Span In. (cm) | Single Channel | | Double Channel | |
|------------------|----------------|-------|----------------|-------|
| | P6000 | P7000 | P6001 | P7001 |
| 24 (61) | 0.80 | 0.95 | 0.99 | 1.00 |
| 36 (91) | 0.63 | 0.90 | 0.89 | 0.93 |
| 48 (122) | 0.52 | 0.87 | 0.79 | 0.86 |
| 60 (152) | 0.45 | 0.83 | 0.70 | 0.80 |
| 72 (183) | 0.40 | 0.80 | 0.60 | 0.73 |
| 84 (213) | 0.37 | 0.76 | 0.51 | 0.67 |
| 96 (244) | 0.34 | 0.73 | 0.44 | 0.60 |

MAXIMUM ALLOWABLE PULL-OUT AND SLIP LOADS

| Nut Size/ Thread | Max. Allowable Pull-Out Lbs (kN) | Resistance to Slip Lbs (kN) | Torque Ft-Lbs (N·m) |
|---------------------|-------------------------------------|--------------------------------|------------------------|
| 1/4"-20 | 250 | 150 | 6 |
| | 1.11 | 0.67 | 8 |



1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

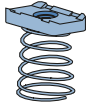
PrimeAngle

Metal Grating

Roofwalk

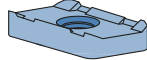
Index

P6006-0832 THRU P6006-1420
CHANNEL NUT W/SPRING **EG**



| Part Number | Thread Size In | Wt/100 pcs Lbs (kg) |
|-------------|----------------|---------------------|
| P6006-0836 | #8 - 36 | 1 (0.5) |
| P6006-0832 | #8 - 32 | 1 (0.5) |
| P6006-1032 | #10 - 32 | 1 (0.5) |
| P6006-1024 | #10 - 24 | 1 (0.5) |
| P6006-1420 | 1/4" - 20 | 1 (0.5) |

P6013-0832 THRU P6013-1420
CHANNEL NUT **EG**



| Part Number | Thread Size In | Wt/100 pcs Lbs (kg) |
|-------------|----------------|---------------------|
| P6013-0836 | #8 - 36 | 1 (0.5) |
| P6013-0832 | #8 - 32 | 1 (0.5) |
| P6013-1032 | #10 - 32 | 1 (0.5) |
| P6013-1024 | #10 - 24 | 1 (0.5) |
| P6013-1420 | 1/4" - 20 | 1 (0.5) |

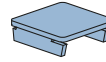
P7006-0832 THRU P7006-1420
CHANNEL NUT W/SPRING **EG**



| Part Number | Thread Size In | Wt/100 pcs Lbs (kg) |
|-------------|----------------|---------------------|
| P7006-0836 | #8 - 36 | 1 (0.5) |
| P7006-0832 | #8 - 32 | 1 (0.5) |
| P7006-1032 | #10 - 32 | 1 (0.5) |
| P7006-1024 | #10 - 24 | 1 (0.5) |
| P7006-1420 | 1/4" - 20 | 1 (0.5) |

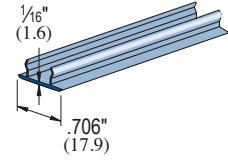
P6280 - END CAP FOR P6000

Material: .060" (1.5)



Wt/100 pcs: 3 Lbs (1.4 kg)

P6184 P - CLOSURE STRIP



Material: PVC, Plastic.
Standard Length: 10 Feet (3.05 m).

Wt/100 Ft: 4 Lbs (6.0 kg/100m)

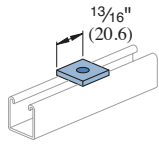
P7280 - END CAP FOR P7000

Material: .048" (1.2)



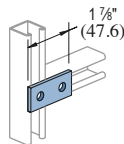
Wt/100 pcs: 1 Lbs (0.5 kg)

P6062



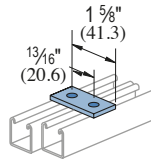
Wt/100 pcs: 2 Lbs (0.9 kg)

P6065



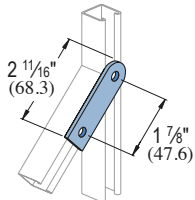
Wt/100 pcs: 5 Lbs (2.3 kg)

P6924



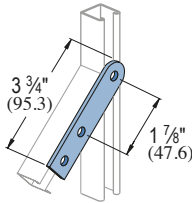
Wt/100 pcs: 5 Lbs (2.3 kg)

P7325



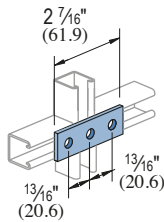
Wt/100 pcs: 7 Lbs (3.2 kg)

P7324



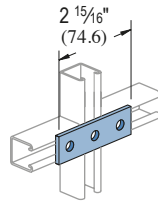
Wt/100 pcs: 10 Lbs (4.5 kg)

P6925



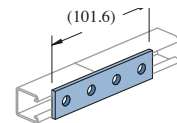
Wt/100 pcs: 7 Lbs (3.2 kg)

P6066



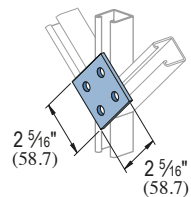
Wt/100 pcs: 8 Lbs (3.6 kg)

P6067



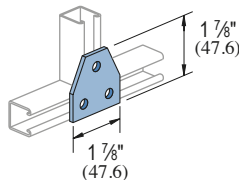
Wt/100 pcs: 11 Lbs (5.0 kg)

P6962



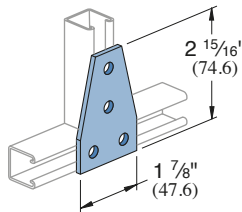
Wt/100 pcs: 19 Lbs (8.6 kg)

P6356A



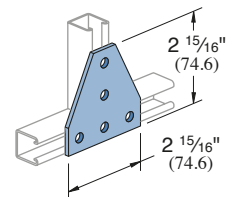
Wt/100 pcs: 10 Lbs (4.5 kg)

P6358A



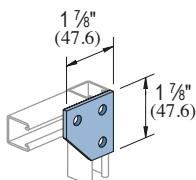
Wt/100 pcs: 15 Lbs (6.8 kg)

P6726A



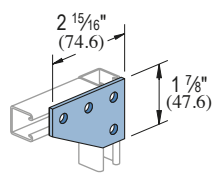
Wt/100 pcs: 22 Lbs (10.0 kg)

P6334



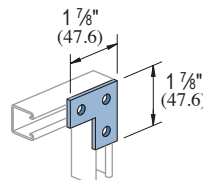
Wt/100 pcs: 11 Lbs (5.0 kg)

P6380



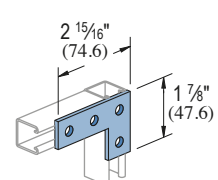
Wt/100 pcs: 15 Lbs (6.8 kg)

P6036



Wt/100 pcs: 8 Lbs (3.6 kg)

P6380A

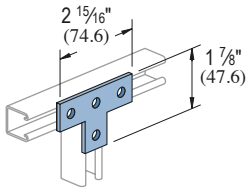


Wt/100 pcs: 11 Lbs (5.0 kg)

Standard Dimensions for 1 3/16" (20.6mm) width series channel fittings (Unless Otherwise Shown on Drawing)

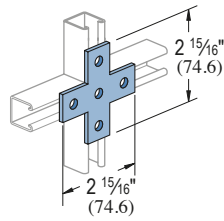
Hole Diameter: 5/32" (7.1mm); Hole Spacing - From End: 1 3/32" (10.3mm); Hole Spacing - On Center: 1 1/8" (27.0mm); Width: 1 3/16" (20.6mm); Thickness: 1/8" (3.2mm)

P6031



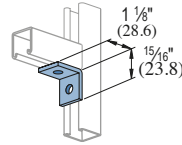
Wt/100 pcs: 11 Lbs (5.0 kg)

P6028



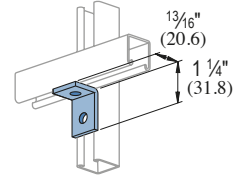
Wt/100 pcs: 14 Lbs (6.4 kg)

P6026



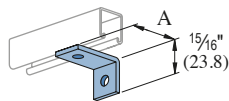
Wt/100 pcs: 5 Lbs (2.3 kg)

P6068



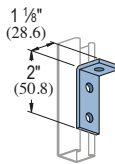
Wt/100 pcs: 5 Lbs (2.3 kg)

P6281 , P6282, P6283



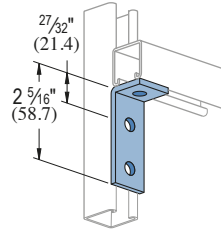
| Part Number | A In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|---------------|---------------------|
| P6281 | 2 50.8 | 8 3.6 |
| P6282 | 2 1/2 63.5 | 9 4.1 |
| P6283 | 3 76.2 | 10 4.5 |

P6069



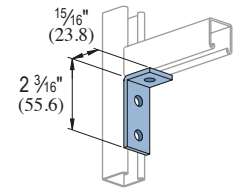
Wt/100 pcs: 8 Lbs (3.6 kg)

P6326



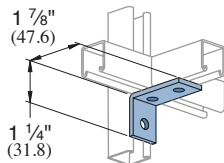
Wt/100 pcs: 8 Lbs (3.6 kg)

P6346



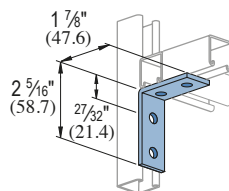
Wt/100 pcs: 8 Lbs (3.6 kg)

P6458



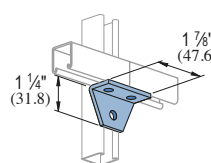
Wt/100 pcs: 8 Lbs (3.6 kg)

P6325



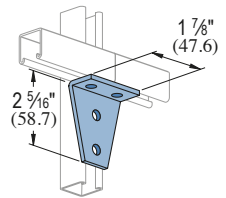
Wt/100 pcs: 11 Lbs (5.0 kg)

P6357



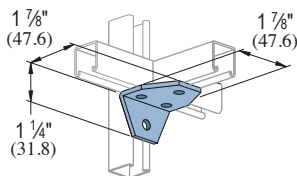
Wt/100 pcs: 10 Lbs (4.5 kg)

P6359



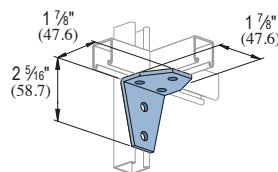
Wt/100 pcs: 15 Lbs (6.8 kg)

P6579



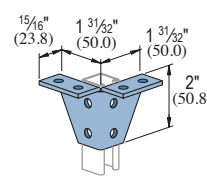
Wt/100 pcs: 15 Lbs (6.8 kg)

P7235



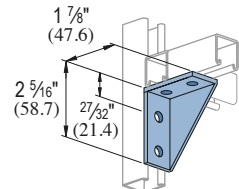
Wt/100 pcs: 18 Lbs (8.2 kg)

P6887



Wt/100 pcs: 28 Lbs (12.7 kg)

P6331



Wt/100 pcs: 19 Lbs (8.6 kg)

Standard Dimensions for 1 3/16" (20.6mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 5/32" (7.1mm); Hole Spacing - From End: 1 3/32" (10.3mm); Hole Spacing - On Center: 1 1/8" (27.0mm); Width: 1 3/16" (20.6mm); Thickness: 1/8" (3.2mm)



1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

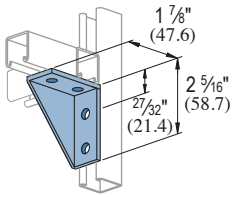
PrimeAngle

Metal Grating

Roofwalk

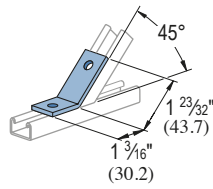
Index

P6332



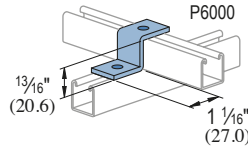
Wt/100 pcs: 19 Lbs (8.6 kg)

P6546



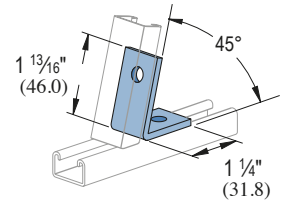
Wt/100 pcs: 8 Lbs (3.6 kg)

P6045



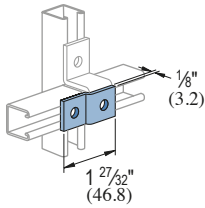
Wt/100 pcs: 7 Lbs (3.2 kg)

P6186



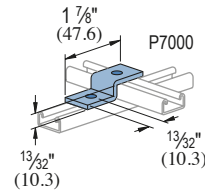
Wt/100 pcs: 8 Lbs (3.6 kg)

P6454



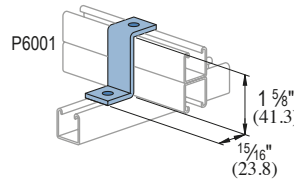
Wt/100 pcs: 5 Lbs (2.3 kg)

P7045



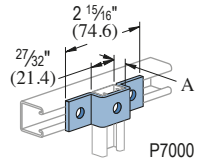
Wt/100 pcs: 6 Lbs (2.7 kg)

P6453



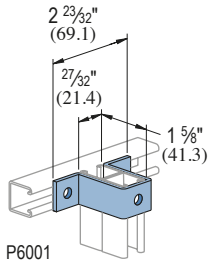
Wt/100 pcs: 9 Lbs (4.1 kg)

P6047, P7047



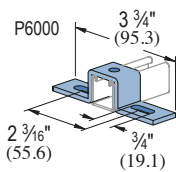
| Part No. | A In (mm) | Wt/100 pcs Lbs (kg) | Use with Channel |
|----------|----------------|---------------------|------------------|
| P6047 | 1 3/16 20.6 | 12 5.4 | P6000 |
| P7047 | 1 3/32 10.3 | 10 4.5 | P7000 |

P6737



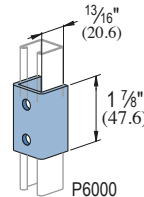
Wt/100 pcs: 16 Lbs (7.3 kg)

P6048



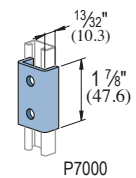
Wt/100 pcs: 14 Lbs (6.4 kg)

P6376



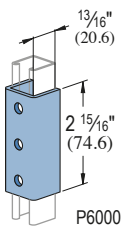
Wt/100 pcs: 17 Lbs (7.7 kg)

P7376



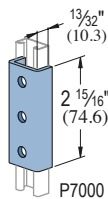
Wt/100 pcs: 11 Lbs (5.0 kg)

P6376A



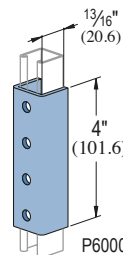
Wt/100 pcs: 26 Lbs (11.8 kg)

P7376A



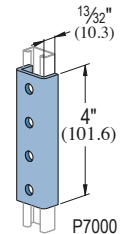
Wt/100 pcs: 16 Lbs (7.3 kg)

P6377



Wt/100 pcs: 36 Lbs (16.3 kg)

P7377

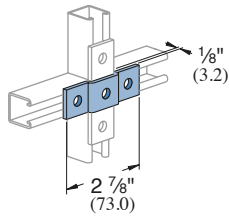


Wt/100 pcs: 24 Lbs (10.9 kg)

Standard Dimensions for 1 3/16" (20.6mm) width series channel fittings (Unless Otherwise Shown on Drawing)

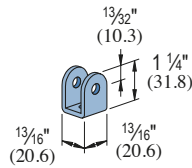
Hole Diameter: 5/32" (7.1mm); Hole Spacing - From End: 1 3/32" (10.3mm); Hole Spacing - On Center: 1 1/8" (27.0mm); Width: 1 3/16" (20.6mm); Thickness: 1/8" (3.2mm)

P6455



Wt/100 pcs: 8 Lbs (3.6 kg)

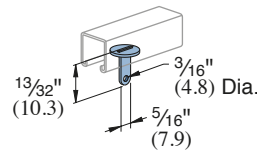
P6973



Wt/100 pcs: 8 Lbs (3.6 kg)

P6349

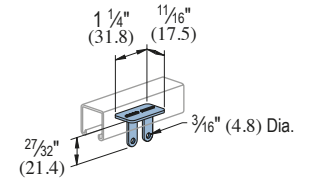
ACETAL SLIDE



Wt/100 pcs: 1 Lbs (0.5 kg)

P6353

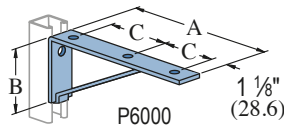
ACETAL SLIDE



Wt/100 pcs: 1 Lbs (0.5 kg)

P6127 - P6129

BRACKET



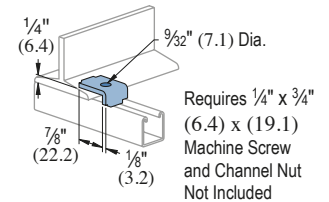
| Part No. | Uniform Design Load Lbs (kN) | "A" In (mm) | "B" In (mm) | "C" In (mm) | Wt/100 pcs Lbs (kg) |
|----------|---------------------------------|-----------------|----------------|----------------|------------------------|
| P6127 | 150 0.67 | 6 1/2 165.1 | 2 1/2 63.5 | 2 1/2 63.5 | 30 13.6 |
| P6128 | 150 0.67 | 8 1/2 215.9 | 3 3/4 82.6 | 3 1/2 88.9 | 40 18.1 |
| P6129 | 130.0 0.58 | 10 1/2 266.7 | 4 101.6 | 4 1/2 114.3 | 50 22.7 |

Safety Factor 2 1/2

Wt/100 pcs: 4 Lbs (1.8 kg)

P6386

BEAM CLAMP

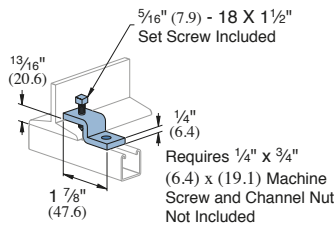


Use in pairs.

P6379 S

BEAM CLAMP

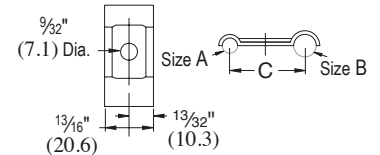
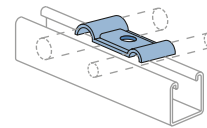
Use in pairs.



Wt/100 pcs: 13 Lbs (5.9 kg)

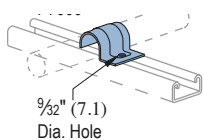
P6805 THRU P6810

TUBING CLIPS



P7008 THRU P7020

TUBING CLIPS



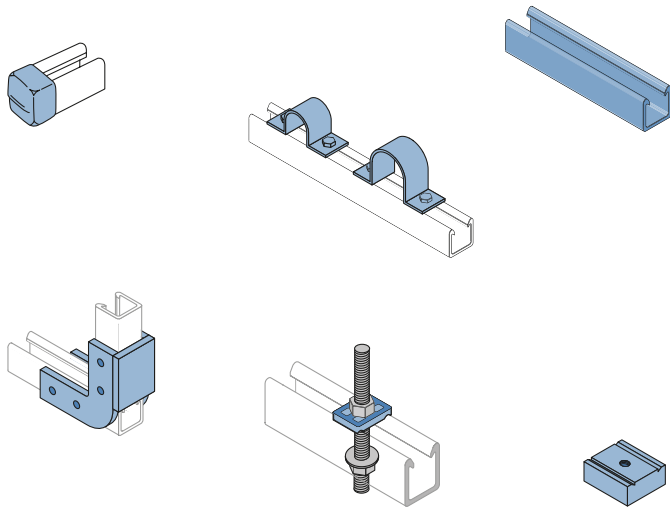
| Part Number | O.D. Tube Size "A" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------------------------|------------------------|
| P7008 | 1/4 6.4 | 1 0.45 |
| P7009 | 5/16 7.9 | 1 0.45 |
| P7010 | 3/8 9.5 | 2 0.91 |
| P7012 | 1/2 12.7 | 2 0.91 |
| P7014 | 5/8 15.9 | 3 1.4 |
| P7016 | 3/4 19.1 | 4 1.8 |
| P7018 | 7/8 22.2 | 5 2.3 |
| P7020 | 1 25.4 | 5 2.3 |

Material: 16 Gauge (1.5)

| Part Number | O.D. Tube Size "A" In (mm) | O.D. Tube Size "B" In (mm) | "C" In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|-------------------------------|-------------------------------|----------------|------------------------|
| P6805 | 1/4 6.4 | 1/4 6.4 | 3/4 19.1 | 1 0.5 |
| P6806 | 3/8 9.5 | 3/8 9.5 | 1 25.4 | 2 0.9 |
| P6807 | 1/2 12.7 | 1/2 12.7 | 1 1/4 31.8 | 3 1.4 |
| P6808 | 1/4 6.4 | 3/8 9.5 | 7/8 22.2 | 2 0.9 |
| P6809 | 1/4 6.4 | 1/2 12.7 | 1 25.4 | 2 0.9 |
| P6810 | 3/8 9.5 | 1/2 12.7 | 1 1/8 28.6 | 3 1.4 |

Standard Dimensions for 13/16" (20.6mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/32" (7.1mm); Hole Spacing - From End: 13/32" (10.3mm); Hole Spacing - On Center: 1 1/16" (27.0mm); Width: 13/16" (20.6mm); Thickness: 1/8" (3.2mm)



| | |
|---|-----------|
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| Light Duty Channel (Flange Profile) | 191 |
| Heavy Duty Channel (SST Profile)..... | 192 |
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| Pipe Clamps..... | 198 |
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| Power Rack Stanchions | 200 |
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| Specifications | 203 |

POLYESTER AND VINYL ESTER MATERIALS

Polyester and vinyl ester channels are manufactured from the pultrusion process and are color coded gray and beige respectively. Components are 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 reinforced part which can be cut to length. The hardened fiberglass pultrusion is reinforced with an internal arrangement of permanently bonded continuous glass fibers to increase its strength.

INSTALLATION

Fabrication requires just three simple operations: cutting, drilling and sealing as described below.

Cutting – Hand held saws, such as hack saws (24 to 32 teeth per inch) are suitable when a few cuts are required. For frequent cutting, a circular power saw with a carbide-tipped masonry blade yields the best results. 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 with clear urethane sealer.

OPERATING ENVIRONMENT

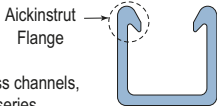
Temperature Ranges – Fiberglass parts are supplied in five different materials covering distinct temperature ranges. The temperature ranges indicated are meant to be used only as a general guideline. Continual exposure to elevated temperatures reduces the strength properties of plastics and glass-reinforced fiberglass. Actual resin test data confirms that a 50% reduction in strength occurs at the extreme high temperature levels.

Chemical Resistance – See the chart on page 204-205 for corrosion resistance. The results 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 with description of each type of channel. Additional loading and design limitations for fittings and accessories are described in the appropriate section for that part.

| Material Temperature Ratings | | |
|------------------------------|---------------|--------------|
| Material Code | Low Temp. | High Temp. |
| E - (Rigid PVC) | -25°F (-31°C) | 130°F (54°C) |
| P - (Poly/Glass) | -35°F (-37°C) | 200°F (93°C) |
| V - (Vinyl/Glass) | -35°F (-37°C) | 200°F (93°C) |
| PU - (Poly) | -40°F (-40°C) | 140°F (60°C) |
| N - (Nylon) | -20°F (-29°C) | 150°F (66°C) |

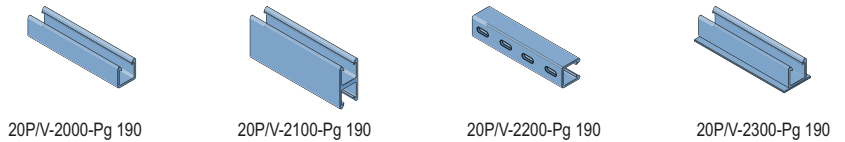
Channel - Aickinstrut Flange Profile



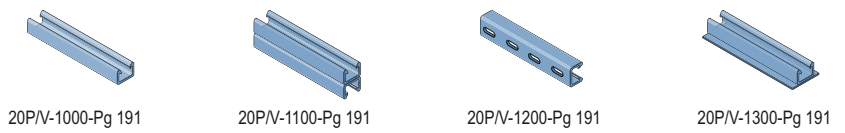
Aickinstrut Flange

Unistrut fiberglass channels, except the SST series, incorporate the Aickinstrut flange design which provides reliable fastening and interlocking of components and accessories. It is important to note that standard metal framing components such as pipe clamps and strut nuts will not work with the flange design.

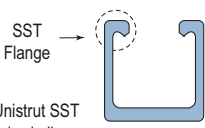
Heavy Duty Aickinstrut Flange Profile
1 5/8" x 1 5/8"



Light Duty Aickinstrut Flange Profile
1 1/2" x 1 1/8"



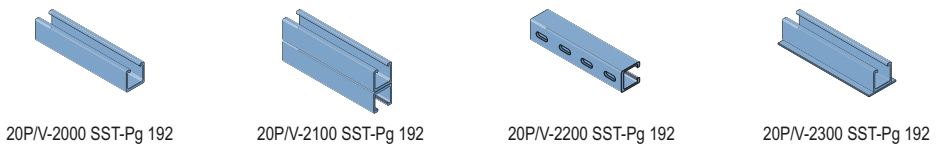
Channel - SST Profile



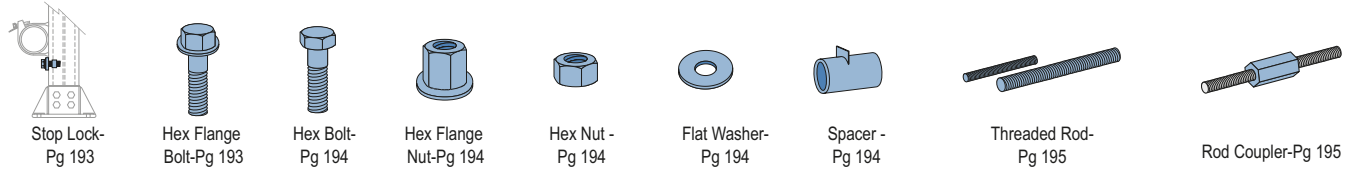
SST Flange

The Unistrut SST profile is similar to the profile of standard metal channel. The Unistrut SST profile will accommodate standard 1 5/8" metal channel fittings and components. This profile is available in polyester or vinyl ester resin. The Unistrut SST profile is not compatible with the fiberglass pipe clamps and channel nuts shown in this section. Typically, stainless steel clamps and strut nuts (listed elsewhere in this catalog) are used with this profile.

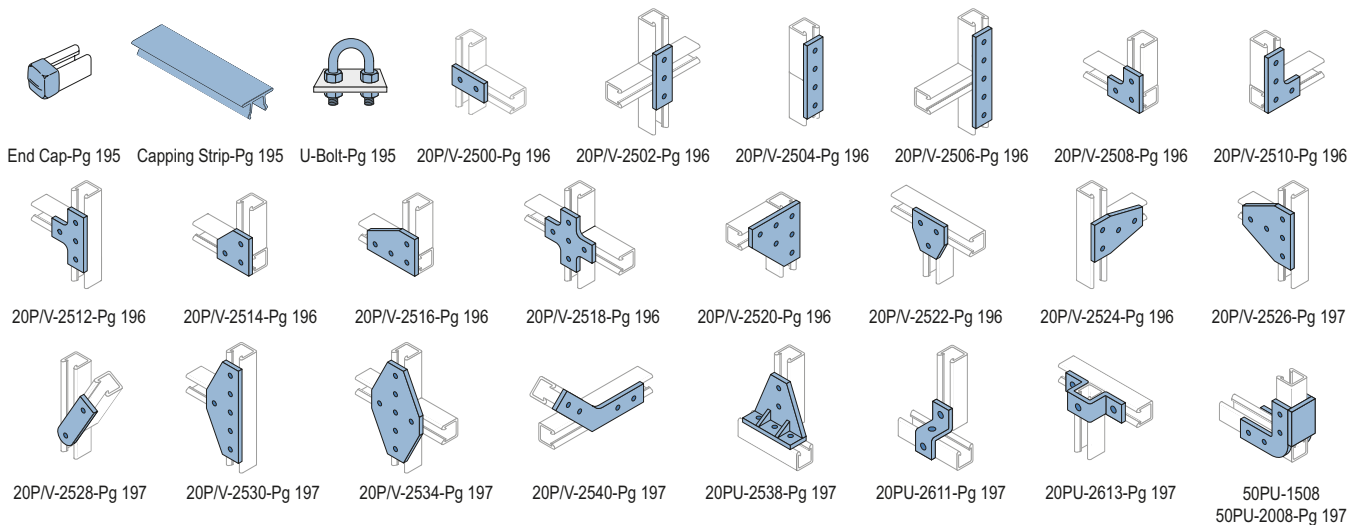
Heavy Duty SST Profile
1 5/8" x 1 5/8"



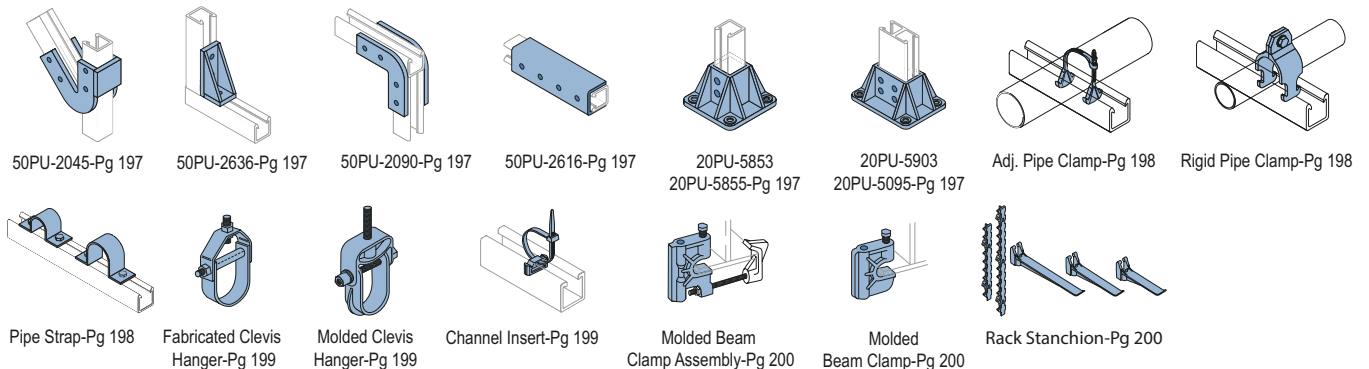
Hardware & Accessories



Fittings



Pipe Clamps, Beam Clamps and Stanchions





1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

PrimeAngle

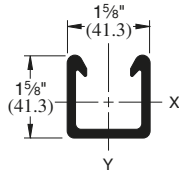
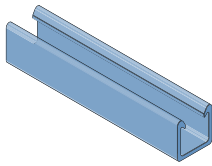
Metal Grating

Roofwalk

Index

20P-2000, 20V-2000

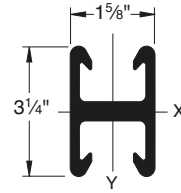
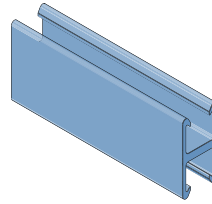
HEAVY DUTY SINGLE CHANNEL - AICKINSTRUT FLANGE PROFILE



Wt/100 Ft: 82 Lbs (122 kg/100 m)

20P-2100, 20V-2100

HEAVY DUTY BACK-TO-BACK CHANNEL - AICKINSTRUT FLANGE PROFILE



Wt/100 Ft: 164 Lbs (244 kg/100 m)

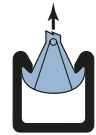
SECTION PROPERTIES

| Part Number | Weight lbs./ft. (kg/m) | Area in ² (mm ²) | ----- X - X Axis ----- | | | | ----- Y - Y Axis ----- | | |
|-------------|------------------------|---|--------------------------------------|-----------|------------|------------|--------------------------------------|-----------|-----------|
| | | | I in ⁴ (mm ⁴) | R ln (mm) | C1 ln (mm) | C2 ln (mm) | I in ⁴ (mm ⁴) | R ln (mm) | C ln (mm) |
| 20P-2000, | 0.82 | 1.06 | 0.31 | 0.54 | 0.7 | 0.93 | 0.42 | 0.63 | 0.82 |
| 20V-2000 | 1.2 | 6.8 | 12.9 | 13.7 | 17.8 | 23.622 | 17.5 | 16.0 | 20.8 |
| 20P-2100, | 1.64 | 2.12 | 1.77 | 0.91 | 1.63 | 1.63 | 0.85 | 0.63 | 0.82 |
| 20V-2100 | 2.4 | 13.7 | 73.7 | 23.1 | 41.4 | 41.402 | 35.4 | 16.0 | 20.8 |

FLANGE LOADING

| Part Number | Pull-Out Strength* Lbs (kN) |
|---------------|-----------------------------|
| 20V-2000/2100 | 449 2.0 |
| 20P-2000/2100 | 360 1.6 |

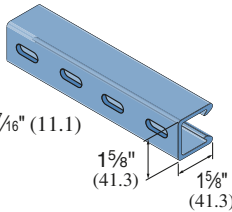
FLANGE LOAD



*Values shown represent a 3:1 safety factor

20P-2200, 20V-2200

SLOTTED CHANNEL

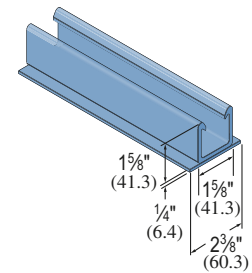


Slots are 1" (25.4) x 7/16" (11.1)
2" (50.8) on Center

Wt/100 Ft: 82 Lbs (122 kg/100 m)

20P-2300, 20V-2300

w/CONCRETE INSERT



Wt/100 Ft: 88 Lbs (131 kg/100 m)

20P-2000, 20V-2000

CHANNEL BEAM/COLUMN LOADING

| Span ln (mm) | Max. Uniform Beam Load (Safety Factor - 3:1) | | Uniform Load at Deflection of 1/360 Span | | Maximum Column Load Lbs (kN) |
|--------------|--|--------------------|--|--------------------|------------------------------|
| | Load Lbs (kN) | Deflection ln (mm) | Load Lbs (kN) | Deflection ln (mm) | |
| 12 | 3,561 | 0.102 | 1,159 | 0.033 | 5,160 |
| 304.8 | 15.8 | 2.6 | 5.2 | 0.8 | 23.0 |
| 18 | 2,374 | 0.23 | 515 | 0.05 | 4,704 |
| 457.2 | 10.6 | 5.8 | 2.3 | 1.3 | 20.9 |
| 24 | 1,781 | 0.41 | 290 | 0.067 | 4,168 |
| 609.6 | 7.9 | 10.4 | 1.3 | 1.7 | 18.5 |
| 30 | 1,424 | 0.64 | 185 | 0.083 | 3,553 |
| 762.0 | 6.3 | 16.3 | 0.8 | 2.1 | 15.8 |
| 36 | 1,187 | 0.922 | 129 | 0.1 | 2,859 |
| 914.4 | 5.3 | 23.4 | 0.6 | 2.5 | 12.7 |
| 48 | 890 | 1.638 | 72 | 0.133 | 1,636 |
| 1,219.2 | 4.0 | 41.6 | 0.3 | 3.4 | 7.3 |
| 60 | 712 | 2.56 | 46 | 0.167 | 1,047 |
| 1,524.0 | 3.2 | 65 | 0.2 | 4.2 | 4.7 |
| 72 | 594 | 3.686 | 32 | 0.2 | 727 |
| 1,828.8 | 2.6 | 93.6 | 0.1 | 5.1 | 3.2 |

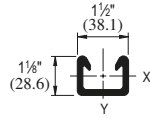
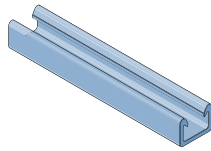
20P-2100, 20V-2100

CHANNEL BEAM/COLUMN LOADING

| Span ln (mm) | Max. Uniform Beam Load (Safety Factor - 3:1) | | Uniform Load at Deflection of 1/360 Span | | Maximum Column Load Lbs (kN) |
|--------------|--|--------------------|--|--------------------|------------------------------|
| | Load Lbs (kN) | Deflection ln (mm) | Load Lbs (kN) | Deflection ln (mm) | |
| 12 | 5,559 | 0.028 | 5,559 | 0.033 | 9,454 |
| 304.8 | 24.7 | 0.7 | 24.7 | 0.8 | 42.1 |
| 18 | 3,706 | 0.064 | 2,914 | 0.05 | 8,866 |
| 457.2 | 16.5 | 1.6 | 13.0 | 1.3 | 39.4 |
| 24 | 2,780 | 0.113 | 1,639 | 0.067 | 8,181 |
| 609.6 | 12.4 | 2.9 | 7.3 | 1.7 | 36.4 |
| 30 | 2,224 | 0.177 | 1,049 | 0.083 | 7,405 |
| 762.0 | 9.9 | 4.5 | 4.7 | 2.1 | 32.9 |
| 36 | 1,853 | 0.254 | 730 | 0.1 | 6,451 |
| 914.4 | 8.2 | 6.5 | 3.2 | 2.5 | 28.7 |
| 48 | 1,390 | 0.452 | 410 | 0.133 | 4,534 |
| 1,219.2 | 6.2 | 11.5 | 1.8 | 3.4 | 20.2 |
| 60 | 1,112 | 0.707 | 262 | 0.167 | 2,902 |
| 1,524.0 | 4.9 | 18.0 | 1.2 | 4.2 | 12.9 |
| 72 | 927 | 1.018 | 182 | 0.2 | 2,015 |
| 1,828.8 | 4.1 | 25.9 | 0.8 | 5.1 | 9.0 |

20P-1000, 20V-1000

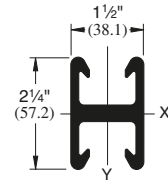
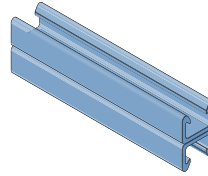
LIGHT DUTY SINGLE CHANNEL - AICKINSTRUT FLANGE PROFILE



Wt/100 Ft: 47 Lbs (70 kg/100 m)

20P-1100, 20V-1100

LIGHT DUTY BACK-TO-BACK CHANNEL - AICKINSTRUT FLANGE PROFILE



Wt/100 Ft: 94 Lbs (140 kg/100 m)

SECTION PROPERTIES

| Part Number | Weight lbs./ft. (kg/m) | Area in ² (mm ²) | X - X Axis | | | | Y - Y Axis | | |
|--------------------|------------------------|---|--------------------------------------|-----------|------------|------------|--------------------------------------|-----------|-----------|
| | | | I in ⁴ (mm ⁴) | R In (mm) | C1 In (mm) | C2 In (mm) | I in ⁴ (mm ⁴) | R In (mm) | C In (mm) |
| 20P-1000, 20V-1000 | 0.47 | 0.61 | 0.1 | 0.4 | 0.51 | 0.62 | 0.22 | 0.6 | 0.75 |
| | 0.7 | 3.9 | 4.2 | 10 | 13 | 16 | 9.2 | 15 | 19 |
| 20P-1100, 20V-1100 | 0.94 | 1.22 | 0.42 | 0.59 | 1.13 | 1.13 | 0.44 | 0.6 | 0.75 |
| | 1.4 | 7.9 | 17.5 | 15 | 29 | 28 | 18.3 | 15 | 19.1 |

FLANGE LOADING

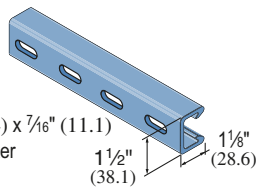
| Part Number | Pull-Out Strength* Lbs (kN) |
|---------------|-----------------------------|
| 20V-1000/1100 | 213 1.0 |
| 20P-1000/1100 | 213 1.0 |



*Values shown represent a 3:1 safety factor

20P-1200, 20V-1200

SLOTTED CHANNEL

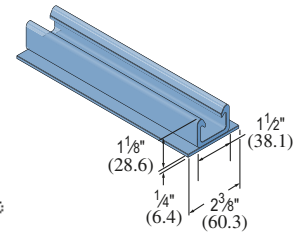
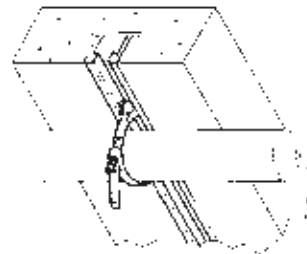


Slots are 1" (25.4) x 7/16" (11.1)
2" (50.8) on Center

Wt/100 Ft: 47 Lbs (70 kg/100 m)

20P-1300, 20V-1300

W/CONCRETE INSERT



Wt/100 Ft: 53 Lbs (79 kg/100 m)

20P-1000, 20V-1000

CHANNEL BEAM/COLUMN LOADING

| Span In (mm) | Max. Uniform Beam Load (Safety Factor - 3:1) | | Uniform Load at Deflection of 1/360 Span | | Maximum Column Load Lbs (kN) |
|--------------|--|--------------------|--|--------------------|------------------------------|
| | Load Lbs (kN) | Deflection In (mm) | Load Lbs (kN) | Deflection In (mm) | |
| 12 | 1,629 | 0.151 | 359 | 0.033 | 2,759 |
| 304.8 | 7.2 | 3.8 | 1.6 | 0.8 | 12.3 |
| 18 | 1,086 | 0.340 | 160 | 0.050 | 2,351 |
| 457.2 | 4.8 | 8.6 | 0.7 | 1.3 | 10.5 |
| 24 | 815 | 0.605 | 90 | 0.067 | 1,862 |
| 609.6 | 3.6 | 15.4 | 0.4 | 1.7 | 8.3 |
| 30 | 652 | 0.945 | 57 | 0.083 | 1,298 |
| 762.0 | 2.9 | 24.0 | 0.3 | 2.1 | 5.8 |
| 36 | 543 | 1.360 | 40 | 0.100 | 901 |
| 914.4 | 2.4 | 34.5 | 0.2 | 2.5 | 4.0 |
| 48 | 407 | 2.418 | 22 | 0.133 | 507 |
| 1,219.2 | 1.8 | 61.4 | 0.1 | 3.4 | 2.3 |
| 60 | 326 | 3.779 | 14 | 0.167 | 324 |
| 1,524.0 | 1.5 | 96.0 | 0.1 | 4.2 | 1.4 |
| 72 | 272 | 5.441 | 10 | 0.200 | 225 |
| 1,828.8 | 1.2 | 138.2 | 0.0 | 5.1 | 1.0 |

20P-1100, 20V-1100

CHANNEL BEAM/COLUMN LOADING

| Span In (mm) | Max. Uniform Beam Load (Safety Factor - 3:1) | | Uniform Load at Deflection of 1/360 Span | | Maximum Column Load Lbs (kN) |
|--------------|--|--------------------|--|--------------------|------------------------------|
| | Load Lbs (kN) | Deflection In (mm) | Load Lbs (kN) | Deflection In (mm) | |
| 12 | 3,804 | 0.082 | 1,556 | 0.033 | 5,961 |
| 304.8 | 16.9 | 2.1 | 6.9 | 0.8 | 26.5 |
| 18 | 2,536 | 0.183 | 691 | 0.05 | 5,509 |
| 457.2 | 11.3 | 4.6 | 3.1 | 1.3 | 24.5 |
| 24 | 1,902 | 0.326 | 389 | 0.067 | 4,979 |
| 609.6 | 8.5 | 8.3 | 1.7 | 1.7 | 22.1 |
| 30 | 1,522 | 0.509 | 249 | 0.083 | 4,375 |
| 762.0 | 6.8 | 12.9 | 1.1 | 2.1 | 19.5 |
| 36 | 1,268 | 0.734 | 173 | 0.1 | 3,698 |
| 914.4 | 5.6 | 18.6 | 0.8 | 2.5 | 16.4 |
| 48 | 951 | 1.304 | 97 | 0.133 | 2,254 |
| 1,219.2 | 4.2 | 33.1 | 0.4 | 3.4 | 10.0 |
| 60 | 761 | 2.038 | 62 | 0.167 | 1,442 |
| 1,524.0 | 3.4 | 51.8 | 0.3 | 4.2 | 6.4 |
| 72 | 634 | 2.935 | 43 | 0.2 | 1,001 |
| 1,828.8 | 2.8 | 74.5 | 0.2 | 5.1 | 4.5 |



1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

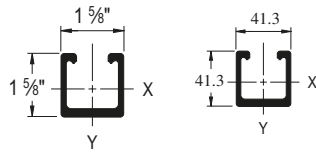
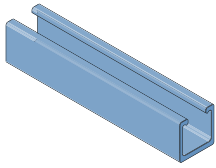
PrimeAngle

Metal Grating

Roofwalk

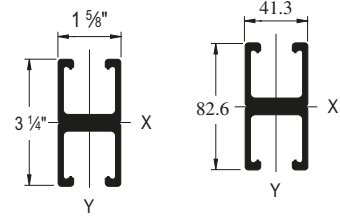
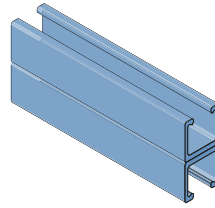
Index

20P-2000 SST, 20V-2000 SST HEAVY DUTY SINGLE CHANNEL - SST PROFILE



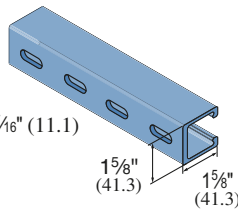
Wt/100 Ft: 82 Lbs (122 kg/100 m)

20P-2100 SST, 20V-2100 SST HEAVY DUTY BACK-TO-BACK CHANNEL - SST PROFILE



Wt/100 Ft: 164 Lbs (244 kg/100 m)

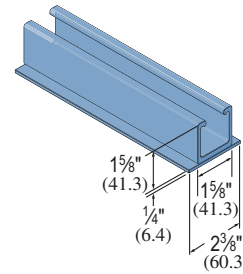
20P-2200 SST, 20V-2200 SST SLOTTED CHANNEL



Slots are 1" (25.4) x 7/16" (11.1)
2" (50.8) on Center

Wt/100 Ft: 82 Lbs (122 kg/100 m)

20P-2300 SST, 20V-2300 SST w/CONCRETE INSERT



Wt/100 Ft: 88 Lbs (131 kg/100 m)

NOTE: Unistrut SST Channel is not compatible with the Unistrut fiberglass pipe clamps and channel nuts shown in this catalog. Metal clamps and channel nuts are compatible with this profile and are shown elsewhere in this catalog.

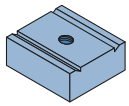
20P-2000 SST, F20V-2000 SST CHANNEL BEAM/COLUMN LOADING

| Span In (mm) | Maximum Uniform Beam Load (Safety Factor - 3:1) | | Deflection @ Max. Allowable Beam Load | | Deflection @ Max. Deflection = 0.25 In (Lbs) | | Uniform Load @ Max. Deflection = 0.50 In (Lbs) | | Max. Column Load Lbs (kN) |
|--------------------|--|----------------------|--|---------------------|--|----------------------|---|----------------------|------------------------------------|
| | Poly Lbs (kN) | Vinyl Lbs (kN) | Poly In (mm) | Vinyl In (mm) | Poly Lbs (kN) | Vinyl Lbs (kN) | Poly Lbs (kN) | Vinyl Lbs (kN) | |
| 12 | 1,720 | 2,150 | 0.07 | 0.07 | — | — | — | — | 3,650 |
| 304.8 | 7.6 | 9.6 | 1.8 | 1.8 | — | — | — | — | 16.2 |
| 18 | 1,150 | 1,440 | 0.15 | 0.17 | — | — | — | — | 3,370 |
| 457.2 | 5.1 | 6.4 | 3.8 | 4.3 | — | — | — | — | 15.0 |
| 24 | 860 | 1,080 | 0.27 | 0.3 | 810 | 910 | — | — | 2,960 |
| 609.6 | 3.8 | 4.8 | 6.9 | 7.6 | 3.6 | 4.0 | — | — | 13.2 |
| 30 | 690 | 870 | 0.42 | 0.48 | 410 | 460 | — | — | 2,450 |
| 762.0 | 3.1 | 3.9 | 10.7 | 12.2 | 1.8 | 2.0 | — | — | 10.9 |
| 36 | 580 | 730 | 0.61 | 0.69 | 240 | 270 | 480 | 540 | 1,800 |
| 914.4 | 2.6 | 3.2 | 15.5 | 17.5 | 1.1 | 1.2 | 2.1 | 2.4 | 8.0 |
| 48 | 430 | 540 | 1.07 | 1.2 | 100 | 115 | 200 | 230 | 1,010 |
| 1,219.2 | 1.9 | 2.4 | 27.2 | 30.5 | 0.4 | 0.5 | 0.9 | 1.0 | 4.5 |
| 60 | 350 | 440 | 1.7 | 1.91 | 60 | 70 | 120 | 135 | 260 |
| 1,524.0 | 1.6 | 2.0 | 43.2 | 48.5 | 0.3 | 0.3 | 0.5 | 0.6 | 1.2 |
| 72 | 290 | 370 | 2.44 | 2.78 | 30 | 34 | 60 | 70 | NR |
| 1,828.8 | 1.3 | 1.6 | 62.0 | 70.6 | 0.1 | 0.2 | 0.3 | 0.3 | NR |

20P-2100 SST, F20V-2100 SST CHANNEL BEAM/COLUMN LOADING

| Span In (mm) | Maximum Uniform Beam Load (Safety Factor - 3:1) | | Deflection @ Max. Al- lowable Beam Load | | Deflection @ Max. Deflection = 0.25 In (Lbs) | | Uniform Load @ Max. Deflection = 0.50 In (Lbs) | | Max. Column Load Lbs (kN) |
|--------------------|--|----------------------|--|---------------------|--|----------------------|---|----------------------|------------------------------------|
| | Poly Lbs (kN) | Vinyl Lbs (kN) | Poly In (mm) | Vinyl In (mm) | Poly Lbs (kN) | Vinyl Lbs (kN) | Poly Lbs (kN) | Vinyl Lbs (kN) | |
| 12 | 5,080 | 6,350 | 0.04 | 0.04 | — | — | — | — | 7,300 |
| 304.8 | 22.6 | 28.2 | 1.0 | 1.0 | — | — | — | — | 32.5 |
| 18 | 3,390 | 4,240 | 0.09 | 0.1 | — | — | — | — | 6,740 |
| 457.2 | 15.1 | 18.9 | 2.3 | 2.5 | — | — | — | — | 30.0 |
| 24 | 2,540 | 3,180 | 0.16 | 0.17 | — | — | — | — | 5,920 |
| 609.6 | 11.3 | 14.1 | 4.1 | 4.3 | — | — | — | — | 26.3 |
| 30 | 2,040 | 2,550 | 0.24 | 0.27 | — | 2,350 | — | — | 4,900 |
| 762.0 | 9.1 | 11.3 | 6.1 | 6.9 | — | 10.5 | — | — | 21.8 |
| 36 | 1,700 | 2,130 | 0.35 | 0.39 | 1,220 | 1,370 | — | — | 3,600 |
| 914.4 | 7.6 | 9.5 | 8.9 | 9.9 | 5.4 | 6.1 | — | — | 16.0 |
| 48 | 1,270 | 1,590 | 0.62 | 0.69 | 520 | 590 | 1,040 | 1,170 | 2,020 |
| 1,219.2 | 5.6 | 7.1 | 15.7 | 17.5 | 2.3 | 2.6 | 4.6 | 5.2 | 9.0 |
| 60 | 1,020 | 1,280 | 0.97 | 1.09 | 270 | 310 | 540 | 610 | 520 |
| 1,524.0 | 4.5 | 5.7 | 24.6 | 27.7 | 1.2 | 1.4 | 2.4 | 2.7 | 2.3 |
| 72 | 850 | 1,070 | 1.4 | 1.57 | 160 | 180 | 320 | 360 | NR |
| 1,828.8 | 3.8 | 4.8 | 35.6 | 39.9 | 0.7 | 0.8 | 1.4 | 1.6 | NR |

HEAVY DUTY CHANNEL NUTS

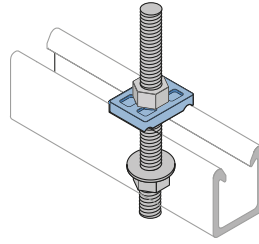


- Heavy duty channel nuts are designed to be used where high thread shear values or spring nuts are required. They can not be used with light duty 1000 series channel or SST profile channel.
- Material: glass-reinforced polyurethane.

| Part Number | Size | Thread Shear Lbs (kN)* | Torque Ft/Lbs (N•m) | Wt/100 pcs Lbs (kg) |
|-------------|---------|------------------------|---------------------|---------------------|
| 375PU-CNHD | 3/8"-16 | 1,400 6.23 | 8 11 | 5.7 2.6 |
| 500PU-CNHD | 1/2"-13 | 1,400 6.23 | 8 11 | 5.3 2.4 |
| 625PU-CNHD | 5/8"-11 | 1,400 6.23 | 10 14 | 5.1 2.3 |
| 750PU-CNHD | 3/4"-10 | 1,400 6.23 | 10 14 | 4.4 2.0 |
| 10PU-CNMHD | 10 mm | 1,400 6.23 | 8 11 | 5.8 2.6 |
| 12PU-CNMHD | 12 mm | 1,400 6.23 | 8 11 | 5.5 2.5 |
| 16PU-CNMHD | 16 mm | 1,400 6.23 | 10 14 | 5.3 2.4 |
| 20PU-CNMHD | 20 mm | 1,400 6.23 | 10 14 | 4.4 2.0 |

*Thread shear values shown represent a 3:1 safety factor.

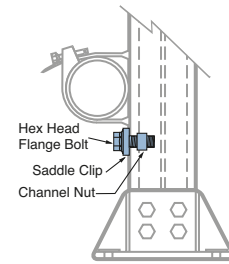
SADDLE CLIPS



- Saddle clips mate with the exterior of the channel flanges and are secured with threaded rods and nuts.
- Material: glass-reinforced polyurethane.

| Part Number | Size (in.) | Wt/100 pcs Lbs (kg) |
|-------------|------------|---------------------|
| 200-4226 | 3/8 | 3.5 1.6 |
| 200-4217 | 1/2 | 2.5 1.1 |
| 200-4341 | 5/8 | 3.0 1.4 |
| 200-4342 | 3/4 | 2.5 1.1 |

STOP-LOCK ASSEMBLIES



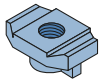
- Stop-Lock Assemblies reduce the chance of pipe slippage when running supports vertically and are recommended for applications that are subject to vibration, have regular contact with fluids or are vertically mounted. The Stop-Locks fit both sizes of channel.
- Material: glass-reinforced polyurethane.

| Part Number | Size (in.) | Force Resistance Lbs (kN)* | Torque Ft/Lbs (N•m) | Wt/100 pcs Lbs (kg) |
|-------------|------------|----------------------------|---------------------|---------------------|
| 200-4227 | 3/8" | 200 0.9 | 7 9 | 6.3 2.9 |
| 200-4219 | 1/2" | 220 1.0 | 12 16 | 6.4 2.9 |
| 200-4343 | 5/8*** | 250 1.1 | 15 20 | 11.0 5.0 |

* Force resistance values shown represents a 3:1 safety factor.

** Supplied with a heavy duty channel nut for use only with the heavy duty series 2000 channel.

STANDARD DUTY CHANNEL NUTS

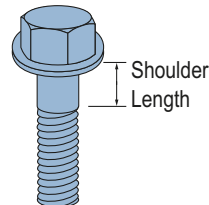


- Standard Duty channel nuts are designed for light duty applications that do not require high thread shear values. They can be used with both light duty series 1000 and heavy duty series 2000 fiberglass channel.
- Not for use with SST profile channel.
- Material: glass-reinforced polyurethane.

| Part Number | Size | Thread Shear Lbs (kN)* | Torque Ft/Lbs (N•m) | Wt/100 pcs Lbs (kg) |
|-------------|-----------|------------------------|---------------------|---------------------|
| 250PU-CN | 1/4"-20 | 460 2.05 | 2 3 | 1.8 0.8 |
| 312PU-CN | 5/16"-18 | 460 2.05 | 2 3 | 1.7 0.8 |
| 375PU-CN | 3/8"-16 | 460 2.05 | 3 4 | 1.8 0.8 |
| 500PU-CN | 1/2"-13 | 460 2.05 | 3 4 | 1.4 0.6 |
| 10PU-CN | 10 mm | 460 2.05 | 3 4 | 1.7 0.8 |
| 12PU-CN | 12 mm | 460 2.05 | 3 4 | 1.4 0.6 |
| 10PU-CNS | #10 Screw | 460 2.05 | N/A | 1.9 0.9 |

*Thread shear values shown represent a 3:1 safety factor.

HEX FLANGE BOLTS



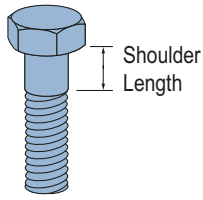
- Fiberfast bolts are ideal for mechanical connections that require a high degree of corrosion resistance. The 3/8" diameter fasteners are recommended for all channel fitting mechanical connections.
- Material: glass-reinforced polyurethane.

| Part Number | Size (in.) | Thread Shear Lbs (kN)* | Shank Shear Lbs (kN)* | Shoulder Length In (mm) | Torque Ft/Lbs (N•m) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|------------------------|-----------------------|-------------------------|---------------------|---------------------|
| 250PU-075 | 1/4 x 3/4 | 110 0.49 | 210 0.93 | Full Thread | 0.8 1 | .4 0.2 |
| 250PU-100 | 1/4 x 1 | 110 0.49 | 210 0.93 | Full Thread | 0.8 1 | .5 .02 |
| 250PU-150 | 1/4 x 1 1/2 | 110 0.49 | 210 0.93 | 1/2 12.7 | 0.8 1 | .6 0.3 |
| 500PU-125 | 1/2 x 1 1/4 | 450 2.00 | 870 3.87 | Full Thread | 8 11 | 1.0 0.5 |
| 500PU-150 | 1/2 x 1 1/2 | 450 2.00 | 870 3.87 | Full Thread | 8 11 | 1.1 .05 |
| 500PU-200 | 1/2 x 2 | 450 2.00 | 870 3.87 | 3/4 19.1 | 8 11 | 1.3 0.6 |
| 500PU-250 | 1/2 x 2 1/2 | 450 2.00 | 870 3.87 | Full Thread | 8 11 | 1.6 0.7 |
| 500PU-300 | 1/2 x 3 | 450 2.00 | 870 3.87 | 1 25.4 | 8 11 | 1.8 0.8 |
| 500PU-350 | 1/2 x 3 1/2 | 450 2.00 | 870 3.87 | 2 3/16 55.6 | 8 11 | 2.0 0.9 |

*Thread shear values shown represent a 3:1 safety factor.



HEX BOLTS

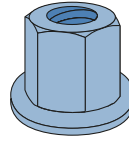


- Fiberfast bolts are ideal for mechanical connections that require a high degree of corrosion resistance. The 3/8" diameter fasteners are recommended for all channel fitting mechanical connections.
- Material: glass-reinforced polyurethane.

| Part Number | Size (in.) | Thread Shear Lbs (kN)* | Shank Shear Lbs (kN)* | Shoulder Length In (mm) | Torque Ft/Lbs (N·m) | Wt/100 pcs Lbs (kg) |
|-------------|-------------|------------------------|-----------------------|-------------------------|---------------------|---------------------|
| 375PU-125 | 3/8 x 1 1/4 | 250 | 470 | Full Thread | 3 | 1.0 |
| | | 1.11 | 2.09 | | 4 | 0.5 |
| 375PU-150 | 3/8 x 1 1/2 | 250 | 470 | 1/4 | 3 | 1.1 |
| | | 1.11 | 2.09 | 6.4 | 4 | 0.5 |
| 375PU-200 | 3/8 x 2 | 250 | 470 | 1/2 | 3 | 1.3 |
| | | 1.11 | 2.09 | 12.7 | 4 | 0.6 |
| 375PU-250 | 3/8 x 2 1/2 | 250 | 470 | 3/4 | 3 | 1.6 |
| | | 1.11 | 2.09 | 19.1 | 4 | 0.7 |
| 375PU-300 | 3/8 x 3 | 250 | 470 | 1 | 3 | 1.8 |
| | | 1.11 | 2.09 | 25.4 | 4 | 0.8 |
| 625PU-125 | 5/8 x 1 1/4 | 700 | 1,360 | 1/4 | 12 | 2.5 |
| | | 3.11 | 6.05 | 6.4 | 16 | 1.1 |
| 625PU-150 | 5/8 x 1 1/2 | 700 | 1,360 | 1/4 | 12 | 2.8 |
| | | 3.11 | 6.05 | 6.4 | 16 | 1.3 |
| 625PU-200 | 5/8 x 2 | 700 | 1,360 | 1/4 | 12 | 3.2 |
| | | 3.11 | 6.05 | 6.4 | 16 | 1.5 |
| 625PU-250 | 5/8 x 2 1/2 | 700 | 1,360 | 1/4 | 12 | 3.4 |
| | | 3.11 | 6.05 | 6.4 | 16 | 1.5 |
| 625PU-300 | 5/8 x 3 | 700 | 1,360 | 1/4 | 12 | 3.9 |
| | | 3.11 | 6.05 | 6.4 | 16 | 1.8 |
| 625PU-350 | 5/8 x 3 1/2 | 700 | 1,360 | 1/4 | 12 | 5.5 |
| | | 3.11 | 6.05 | 6.4 | 16 | 2.5 |

*Thread shear values shown represent a 3:1 safety factor.

HEX FLANGE NUTS

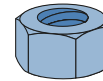


- The hex flange nut is preferred for applications that require additional thread engagement (such as with all-thread rod) or maximum thread shear strength.
- Material: glass-reinforced polyurethane.

| Part Number | Size (in.) | Thread Shear Lbs (kN)* | Height In (mm) | Torque Ft/Lbs (N·m) | Wt/100 pcs Lbs (kg) |
|--------------|------------|------------------------|----------------|---------------------|---------------------|
| 375PU-FN-000 | 3/8-16 | 500 | 0.750 | 3 | 0.8 |
| | | 2.22 | 19.1 | 4 | 0.4 |
| 500PU-FN-000 | 1/2-13 | 1,200 | 0.855 | 8 | 1.6 |
| | | 5.34 | 21.7 | 11 | 0.7 |
| 625PU-FN-000 | 3/4-11 | 2,200 | 1.220 | 12 | 3.5 |
| | | 9.79 | 31.0 | 16 | 1.6 |
| 750PU-FN-000 | 1-10 | 2,900 | 1.590 | 15 | 5.5 |
| | | 12.90 | 40.4 | 20 | 2.5 |

*Thread shear values shown represent a 3:1 safety factor.

HEX NUTS



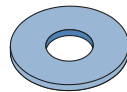
| Part Number | Size (in.) | Thread Shear Lbs (kN)* | Height In (mm) | Torque Ft/Lbs (N·m) | Wt/100 pcs Lbs (kg) |
|-------------|------------|------------------------|----------------|---------------------|---------------------|
| 250PU-000 | 1/4-20 | 150 | 0.218 | 0.8 | 0.1 |
| | | 0.67 | 5.5 | 1 | 0.05 |
| 375PU-000 | 3/8-16 | 460 | 0.328 | 3 | 0.3 |
| | | 2.05 | 8.3 | 4 | 0.1 |
| 500PU-000 | 1/2-13 | 800 | 0.437 | 8 | 0.5 |
| | | 3.56 | 11.1 | 11 | 0.2 |
| 625PU-000 | 3/4-11 | 1,000 | 0.546 | 12 | 1.5 |
| | | 4.45 | 13.9 | 16 | 0.7 |

*Thread shear values shown represent a 3:1 safety factor.

FLAT WASHERS

Material: PVC

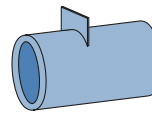
Note: PVC washers are recommended for connections that utilize hex nuts and bolts.



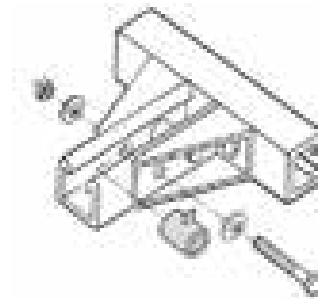
| Part Number | Size (in.) | Outside Diameter In (mm) | Wt/100 pcs Lbs (kg) |
|-------------|------------|--------------------------|---------------------|
| 250E-999 | 1/4 | 0.49 | 0.1 |
| | | 12 | 0.05 |
| 375E-999 | 3/8 | 1.00 | 0.1 |
| | | 25 | 0.05 |
| 500E-999 | 1/2 | 1.25 | 0.5 |
| | | 32 | 0.2 |
| 625E-999 | 3/4 | 1.50 | 0.5 |
| | | 38 | 0.2 |
| 750E-999 | 1 | 1.50 | 1.0 |
| | | 38 | 0.5 |
| 1000E-999 | 1 | 2.25 | 1.5 |
| | | 57 | 0.7 |

50PU-500SP

CHANNEL SPACERS

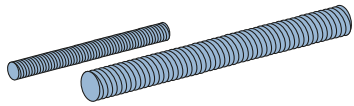


- Channel spacers are designed to prevent wall compression under heavy loading conditions. Such loading occurs during the torquing of hardware for channel fittings.
- The spacers are designed to be used only with 1 1/8" channels and will accommodate 3/8" and 1/2" bolts.
- Material: molded from polyurethane



Wt/100 pcs: 2.0 Lbs (.91 kg)

THREADED ROD

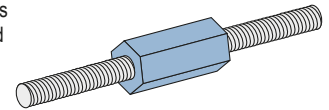


Material: pultruded vinyl ester resin and is gray in color.

* Thread shear values shown represent a 3:1 safety factor.
 ** Standard lengths are 4' and 8'. The part number shown is for 4' lengths. To order eight foot lengths, add suffix "-96" to part number (Example: F200-3827-96)

| Part Number | Size (in.) | Weight Lbs (kg) | Thread Shear Lbs (kN)* | Torque Ft/Lbs (N*m) | Wt/100 pcs 4' in Len. Lbs (kg) |
|-------------|------------|-----------------|------------------------|---------------------|--------------------------------|
| 200-3827 | 3/8-16 | 0.07 0.03 | 415 1.85 | 5 7 | 35 15.9 |
| 200-3828 | 1/2-13 | 0.12 0.05 | 570 2.54 | 10 14 | 57 25.9 |
| 200-3829 | 5/8-11 | 0.18 0.08 | 1,260 5.60 | 40 54 | 91 41.3 |
| 200-3830 | 3/4-10 | 0.28 0.13 | 1,700 7.56 | 50 68 | 133 60.3 |
| 200-3831 | 1-8 | 0.50 0.23 | 3,000 13.34 | 60 81 | 200 90.7 |

A-KONNECTOR ROD COUPLERS

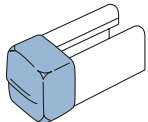


A-Konnectors provide an excellent means for extending FRP all-thread rods beyond their standard lengths. A-Konnectors are manufactured from glass-reinforced polyurethane and are colored gray. A-Konnectors are packaged in bags containing 25 pieces.

| Part Number | Size (in.) | Length In (mm) | Thread Shear Lbs (kN)* | Wt/100 pcs Lbs (kg) |
|-------------|------------|----------------|------------------------|---------------------|
| 200-3840 | 3/8-16 | 2 1/4 57.2 | 800 3.56 | 6.5 2.9 |
| 200-3841 | 1/2-13 | 2 1/4 57.2 | 870 3.87 | 6.0 2.7 |
| 200-3842 | 5/8-11 | 2 1/4 57.2 | 1,500 6.67 | 13.0 5.9 |
| 200-3843 | 3/4-10 | 2 1/4 57.2 | 1,500 6.67 | 11.0 5.0 |

* Thread shear values shown represent a 3:1 safety factor.

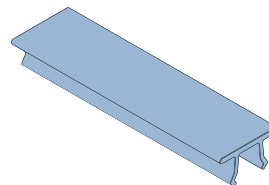
AIC-EC – CHANNEL END CAP



- Material: red PVC and designed for 1 1/2" channel.
- End caps are desired when the ends of the channel need to be enclosed. The cap easily installs by pressing it onto the end of the channel opening.

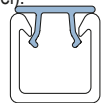
Wt/100 pcs: 3.4 Lbs (1.5 kg)

20E-5000 – CHANNEL CAPPING STRIP



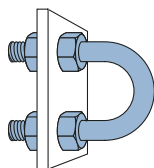
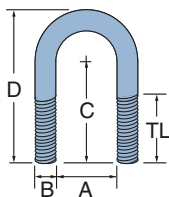
- Material: PVC
- Installs simply by pressing it onto the channel opening. It is designed to be used when a cover is desired for the channel opening (such as concrete embedment channel).

Supplied in 10 foot lengths.



Wt/100 Ft: 5 Lbs (7.4 kg/100 m)

NONMETALLIC U-BOLTS



Note: Plate not included. Illustration purpose only

| Part Number | Size In | "A" Dim. In (mm) | "B" Dim. In (mm) | "C" Dim. In (mm) | "D" Dim. In (mm) | "TL" Dim. In (mm) | Load Lbs (kN)* | Torque In/Lbs (N*m) | Wt/100 pcs Lbs (kg) |
|-------------|---------|------------------|------------------|------------------|------------------|-------------------|----------------|---------------------|---------------------|
| UB-050 | 1/2 | 0.937 23.8 | 0.375 9.5 | 1.568 39.8 | 2.412 61.3 | 1.25 31.8 | 135 0.60 | 40 5 | 3 1.4 |
| UB-075 | 3/4 | 1.125 28.6 | 0.375 9.5 | 1.662 42.2 | 2.600 66.0 | 1.25 31.8 | 135 0.60 | 40 5 | 3 1.4 |
| UB-100 | 1 | 1.375 34.9 | 0.375 9.5 | 1.787 45.4 | 2.850 72.4 | 1.25 31.8 | 135 0.60 | 40 5 | 4 1.8 |
| UB-125 | 1 1/4 | 1.687 42.8 | 0.375 9.5 | 1.943 49.4 | 3.162 80.3 | 1.25 31.8 | 135 0.60 | 40 5 | 4 1.8 |
| UB-150 | 1 1/2 | 2.000 50.8 | 0.375 9.5 | 2.100 53.3 | 3.475 88.3 | 1.25 31.8 | 135 0.60 | 40 5 | 5 2.3 |
| UB-200 | 2 | 2.437 61.9 | 0.500 12.7 | 2.468 62.7 | 4.187 106.3 | 1.50 38.1 | 135 0.60 | 80 9 | 10 4.5 |
| UB-250 | 2 1/2 | 2.937 74.6 | 0.500 12.7 | 2.718 69.0 | 4.687 119.0 | 1.50 38.1 | 135 0.60 | 80 9 | 11 5.0 |
| UB-300 | 3 | 3.562 90.5 | 0.500 12.7 | 3.031 77.0 | 5.312 134.9 | 1.50 38.1 | 135 0.60 | 80 9 | 14 6.4 |
| UB-350 | 3 1/2 | 4.062 103.2 | 0.500 12.7 | 3.281 83.3 | 5.812 147.6 | 1.50 38.1 | 135 0.60 | 80 9 | 15 6.8 |
| UB-400 | 4 | 4.562 115.9 | 0.500 12.7 | 3.531 89.7 | 6.312 160.3 | 1.50 38.1 | 135 0.60 | 80 9 | 16 7.3 |
| UB-600 | 6 | 6.750 171.5 | 0.625 15.9 | 5.750 146.1 | 9.875 250.8 | 3.25 82.6 | 135 0.60 | 120 14 | 17 7.7 |

*Torque and load values shown represent a 3:1 safety factor.

- Unistrut Nonmetallic U-Bolts provide a corrosion resistant alternative to traditional metallic U-Bolts. They have oversized diameters which allow them to hold steel conduit and plastic pipe. These bolts will outlast stainless steel in most corrosive applications.
- Each U-Bolt comes with two polyurethane hex nuts. Additional nuts and washers can be purchased separately.
- Material: glass-reinforced polyurethane

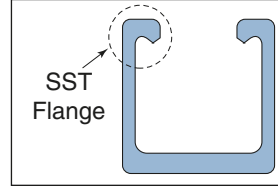
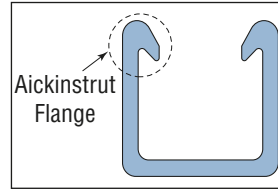


CHANNEL FITTINGS

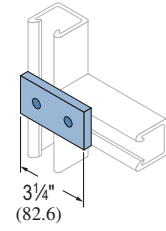
Channel Fittings are required to fabricate structures and are easily attached to Channels with channel nuts and polyurethane fasteners. The fittings are offered in two types; fabricated (cut from flat stock) or molded.

- Material (Fabricated Fittings): Either polyester (P Series) or vinyl ester (V Series) material.
- Material (Molded Fittings): All molded fittings with the exception of the post bases are molded in polyurethane.

Note: The drawings for all fittings are shown with the Aickinstrut flange profile, however they can be used with either channel profile. All fittings are provided with 13/32" holes which accommodate 3/8" hardware. However several of the molded fittings are 1/4" thick and come with 9/16" holes which accommodate 1/2" hardware.



20P-2500, 20V-2500



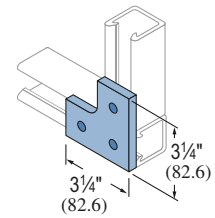
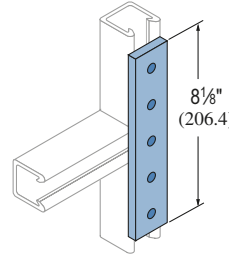
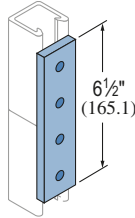
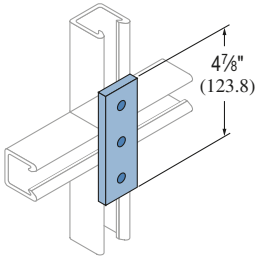
Wt/100 pcs: 12 Lbs (5.4 kg)

20P-2502, 20V-2502

20P-2504, 20V-2504

20P-2506, 20V-2506

20P-2508, 20V-2508



Wt/100 pcs: 17 Lbs (7.7 kg)

Wt/100 pcs: 24 Lbs (10.9 kg)

Wt/100 pcs: 32 Lbs (14.5 kg)

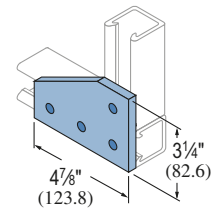
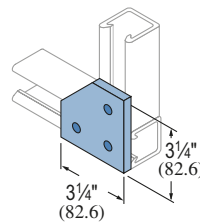
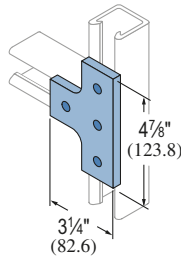
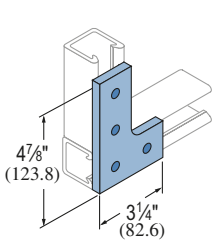
Wt/100 pcs: 17 Lbs (7.7 kg)

20P-2510, 20V-2510

20P-2512, 20V-2512

20P-2514, 20V-2514

20P-2516, 20V-2516



Wt/100 pcs: 25 Lbs (11.3 kg)

Wt/100 pcs: 26 Lbs (11.8 kg)

Wt/100 pcs: 20 Lbs (9.1 kg)

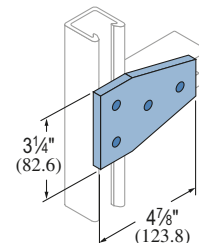
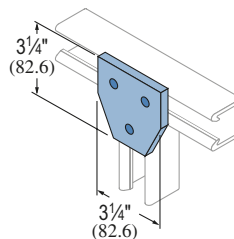
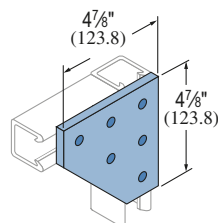
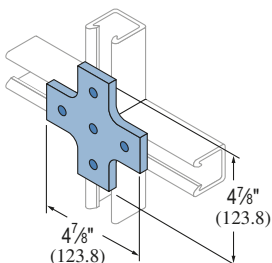
Wt/100 pcs: 32 Lbs (14.5 kg)

20P-2518, 20V-2518

20P-2520, 20V-2520

20P-2522, 20V-2522

20P-2524, 20V-2524



Wt/100 pcs: 33 Lbs (15.0 kg)

Wt/100 pcs: 45 Lbs (20.4 kg)

Wt/100 pcs: 21 Lbs (9.5 kg)

Wt/100 pcs: 32 Lbs (14.5 kg)

1/4" System

13/16" System

Fiberglass System

Special Metals

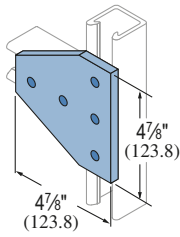
PrimeAngle

Metal Grating

Roofwalk

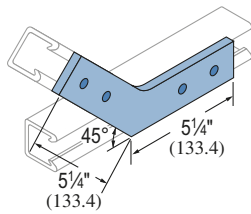
Index

20P-2526, 20V-2526



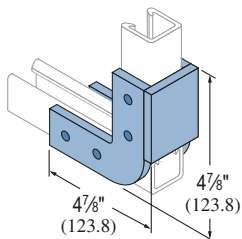
Wt/100 pcs: 45 Lbs (20.4 kg)

20P-2540, F20V-2540



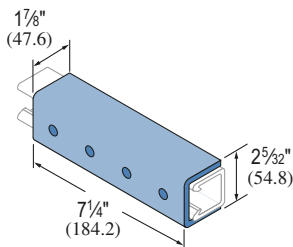
Wt/100 pcs: 41 Lbs (18.6 kg)

50PU-1508 (1 1/2\"/>



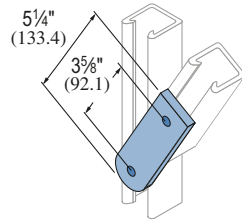
Wt/100 pcs: 27 Lbs (12.2 kg)

50PU-2616



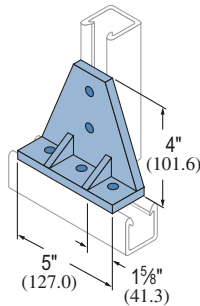
Wt/100 pcs: 51 Lbs (23.1 kg)

20P-2528, 20V-2528



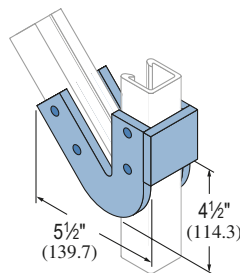
Wt/100 pcs: 20 Lbs (9.1 kg)

50PU-2538



Wt/100 pcs: 57 Lbs (26.0 kg)

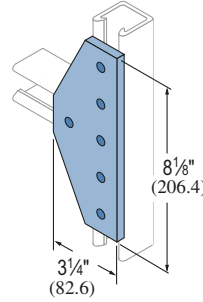
50PU-2045 (1 5/8\"/>



Wt/100 pcs: 35 Lbs (15.9 kg)

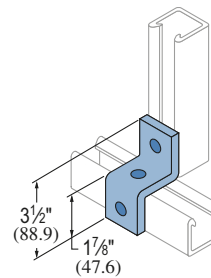
20PU-5853 (1 5/8\"/>

20P-2530, 20V-2530



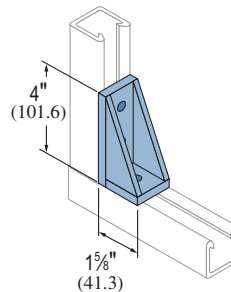
Wt/100 pcs: 50 Lbs (22.7 kg)

50PU-2611



Wt/100 pcs: 9 Lbs (4.1 kg)

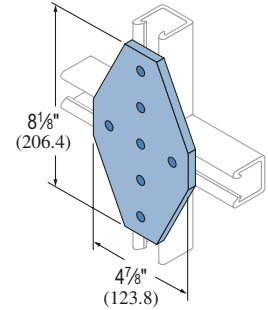
50PU-2636



Wt/100 pcs: 14 Lbs (6.4 kg)

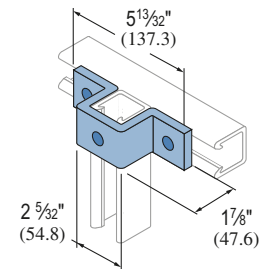
20PU-5903 (3 1/4\"/>

20P-2534, 20V-2534



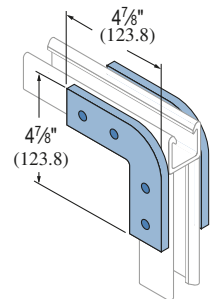
Wt/100 pcs: 77 Lbs (34.9 kg)

50PU-2613

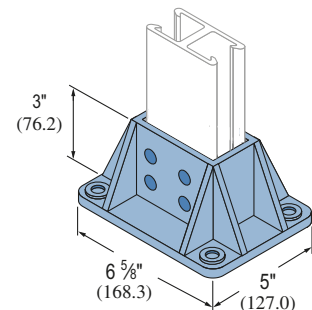


Wt/100 pcs: 16 Lbs (7.3 kg)

50PU-2090 (1 5/8\"/>



Wt/100 pcs: 35 Lbs (15.9 kg)



Wt/100 pcs: 86 Lbs (39.0 kg)

1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

PrimeAngle

Metal Grating

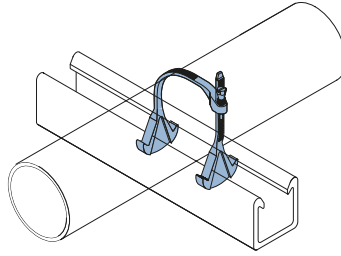
Roofwalk

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ADJUSTABLE PIPE CLAMPS

- Unistrut 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.
- Care should be taken not to exceed 3 ft./lbs. of torque on the adjustable pipe straps.



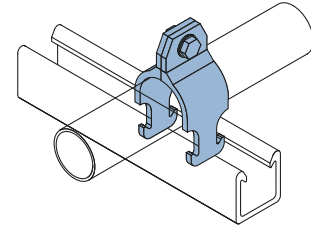
| Part Number | O.D. Pipe Size (in.) | Design Load | | Torque Ft/Lbs (N·m) | Wt/100 pcs Lbs (kg) |
|-------------|----------------------|-----------------|-----------------|---------------------|---------------------|
| | | Type 1 Lbs (kN) | Type 2 Lbs (kN) | | |
| 200-3100 | ½–1½ | 135 (0.6) | 65 (0.3) | 0.8 (1) | 3 (1.4) |
| 200-3110 | 1½–2¼ | 135 (0.6) | 65 (0.3) | 3 (4) | 5 (2.3) |
| 200-3120 | 2¼–3¼ | 145 (0.6) | 70 (0.3) | 3 (4) | 5 (2.3) |
| 200-3130 | 3–4 | 215 (1.0) | 70 (0.3) | 3 (4) | 8 (3.6) |
| 200-3140 | 4–6½ | 215 (1.0) | 70 (0.3) | 3 (4) | 10 (4.5) |

*Design loads shown represent a 3:1 safety factor.

RIGID PIPE CLAMPS

| Part Number | PVC, Sch. 80 Design Loads* | | FRP Bolt | | | | |
|-------------|----------------------------------|---------------|-----------------|-----------------|---------------------|---------------------|---------------------|
| | Nominal & Rigid Metal Size (in.) | In (mm) | Type 1 Lbs (kN) | Type 2 Lbs (kN) | FRP Bolt Size (in.) | Torque Ft/Lbs (N·m) | Wt/100 pcs Lbs (kg) |
| PCR-050 | ½ | 0.840 (21.3) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | 3 (4) | 3 (1.4) |
| PCR-075 | ¾ | 1.050 (26.7) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | | 3 (1.4) |
| PCR-100 | 1 | 1.315 (33.4) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | | 4 (1.8) |
| PCR-125 | 1¼ | 1.660 (42.2) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | | 5 (2.3) |
| PCR-150 | 1½ | 1.900 (48.3) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | | 5 (2.3) |
| PCR-200 | 2 | 2.375 (60.3) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | | 5 (2.3) |
| PCR-250 | 2½ | 2.875 (73.0) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | | 7 (3.2) |
| PCR-300 | 3 | 3.500 (88.9) | 225 (1.0) | 90 (0.4) | ¾ x 1¼ | | 10 (4.5) |
| PCR-400 | 4 | 4.500 (114.3) | 300 (1.3) | 125 (0.6) | ¾ x 1¼ | | 12 (5.4) |
| PCR-600 | 6 | 6.625 (168.3) | 300 (1.3) | 125 (0.6) | ¾ x 1¼ | | 15 (6.8) |
| PCR-800 | 8 | 8.625 (219.1) | 300 (1.3) | 125 (0.6) | ¾ x 1¼ | 18 (8.1) | |

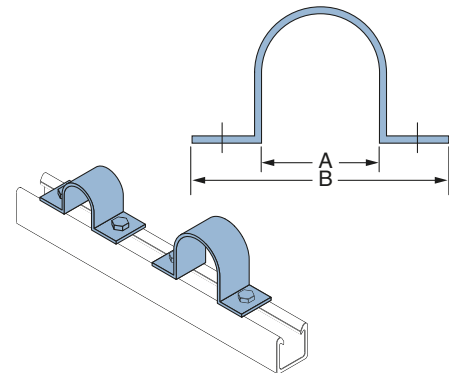
*Design loads shown represent a 3:1 safety factor.



Rigid Pipe Clamps resemble the more traditional style of pipe clamps 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). Care should be taken not to exceed the recommended torque values of the rigid pipe clamps. Material: glass-reinforced polyurethane.

TWO HOLE PIPE STRAPS

| 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 | ½ | ¼ X 1½ | 135 | 50 | 4 | | |
| PS075 | 1.050 | 5.050 | | | | | | | |
| PS100 | 1.315 | 5.315 | | | | | | | |
| PS150 | 1.900 | 5.900 | | | | | | | |
| PS200 | 2¾ | 6.375 | | | | | | | |
| PS250 | 2⅞ | 6.875 | | | 175 | 60 | | | |
| PS300 | 3½ | 7.500 | | | | | | | |
| PS350 | 4 | 8.000 | | | | | | | |
| PS400 | 4½ | 8.500 | | | | | | | |
| PS500 | 5⅞ | 9.563 | | | | | | 225 | 125 |
| PS600 | 6⅞ | 10.625 | | | | | | | |
| PS800 | 8⅞ | 12.625 | | | | | | | |
| PS1000 | 10¾ | 15.750 | 5/8 | ¼ X 1½ | 225 | 125 | | | |
| PS1200 | 12¾ | 16.250 | | | | | | | |
| PS1400 | 14 | 18.000 | | | | | ¾ X 1½ | 250 | 150 |
| PS1600 | 16 | 20.000 | | | | | | | |
| PS1800 | 18 | 23.000 | | | | | | | |

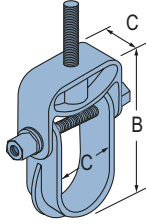


- Two Hole Pipe Straps are designed for use in securing pipe, conduit and ducts to Channel. Two hole fiberglass straps can also be used independently from the channel for surface mounting. All sizes of the straps are suitable for load bearing applications.
- Material: fire-retardant, glass-reinforced 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.

Notes:

- Bolts and channel nuts are sold separately.
- When bolting onto 1½" channel a 1¼" long bolt is req'd.

MOLDED CLEVIS HANGERS

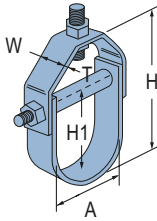


Material: glass-reinforced polyurethane.

*Design load values shown represent a 3:1 safety factor.

| Part Number | Nominal Diameter In (mm) | Max. Pipe O.D. In (mm) | "A" Dim. In (mm) | "B" Dim. In (mm) | "C" Dim. In (mm) | Hanger Rod In (mm) | Load* Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|-----------------------------|---------------------------|---------------------|---------------------|---------------------|-----------------------|-------------------|------------------------|
| CVHPU-100 | 1/2 - 1 | 1 | 1.500 | 4.25 | 1.25 | 1/2 | 670 | 29 |
| | 12.7 - 25.4 | 25.4 | 38.1 | 108 | 32 | 12.7 | 2.98 | 13.2 |
| CVHPU-150 | 1 1/4 - 1 1/2 | 1 1/2 | 2.000 | 5.14 | 1.25 | 1/2 | 670 | 40 |
| | 31.8 - 38.1 | 38.1 | 50.8 | 131 | 32 | 12.7 | 2.98 | 18.1 |
| CVHPU-200 | 1 1/2 - 2 | 2 | 2.500 | 6.52 | 1.25 | 1/2 | 730 | 43 |
| | 38.1 - 50.8 | 50.8 | 63.5 | 166 | 32 | 12.7 | 3.25 | 19.5 |
| CVHPU-400 | 2 1/2 - 4 | 4 | 5.125 | 10.00 | 1.50 | 1/2 | 1,150 | 129 |
| | 63.5 - 101.6 | 101.6 | 130.2 | 254 | 38 | 12.7 | 5.12 | 58.5 |
| CVHPU-600 | 4 1/2 - 6 | 6 | 6.750 | 12.33 | 1.50 | 1/2 | 1,170 | 168 |
| | 114.3 - 152.4 | 152.4 | 171.5 | 313 | 38 | 12.7 | 5.20 | 76.2 |

FABRICATED CLEVIS HANGERS



Material: glass-reinforced polyester resin.

*Design load values shown represent a 3:1 safety factor.

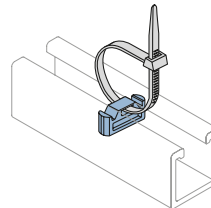
| Part Number | Size Range In (mm) | Dimensions - In (mm) | | | | | Hanger Rod In (mm) | Trans Rod In (mm) | Spreader Rod O.D. In (mm) | Loads* Lbs (kN) | Wt/100 pcs Lbs (kg) |
|-------------|-----------------------|----------------------|---------|--------|-------|------|-----------------------|----------------------|------------------------------|--------------------|------------------------|
| | | A | 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 | 21 | |
| | 25.4 - 38.1 | 3.2 | 69.9 | 47.6 | 38.1 | 12.7 | 9.5 | 12.7 | 0.27 | 9.5 | |
| 100-1501 | 1 1/2 - 2 | 1/8 | 3 1/2 | 2 3/8 | 1 1/2 | 1/2 | 3/8 | 1/2 | 60 | 25 | |
| | 38.1 - 50.8 | 3.2 | 88.9 | 60.3 | 38.1 | 12.7 | 9.5 | 12.7 | 0.27 | 11.3 | |
| 100-1502 | 2 - 2 5/8 | 1/8 | 4 3/4 | 3 | 2 | 1/2 | 3/8 | 1/2 | 90 | 55 | |
| | 50.8 - 66.7 | 3.2 | 120.7 | 76.2 | 50.8 | 12.7 | 9.5 | 12.7 | 0.40 | 24.9 | |
| 100-1503 | 2 1/2 - 3 1/4 | 1/8 | 5 1/2 | 3 3/8 | 2 | 1/2 | 3/8 | 1/2 | 120 | 57 | |
| | 63.5 - 82.6 | 3.2 | 139.7 | 92.1 | 50.8 | 12.7 | 9.5 | 12.7 | 0.53 | 25.9 | |
| 100-1504 | 3 - 3 3/8 | 1/8 | 7 | 4 1/4 | 2 | 1/2 | 3/8 | 1/2 | 160 | 61 | |
| | 76.2 - 98.4 | 3.2 | 177.8 | 108.0 | 50.8 | 15.9 | 9.5 | 12.7 | 0.71 | 27.7 | |
| 100-1505 | 4 - 5 1/8 | 13/16 | 8 1/2 | 5 3/8 | 2 | 3/4 | 3/8 | 1/2 | 250 | 82 | |
| | 101.6 - 130.2 | 20.6 | 215.9 | 142.9 | 50.8 | 15.9 | 9.5 | 12.7 | 1.11 | 37.2 | |
| 100-1506 | 6 - 7 1/8 | 13/16 | 10 7/8 | 7 1/2 | 3 | 3/4 | 3/8 | 1/2 | 300 | 136 | |
| | 152.4 - 181.0 | 20.6 | 276.2 | 190.5 | 76.2 | 15.9 | 9.5 | 12.7 | 1.33 | 61.7 | |
| 100-1507 | 8 - 9 1/4 | 1/4 | 14 | 9 3/4 | 3 | 3/4 | 3/8 | 1/2 | 350 | 189 | |
| | 203.2 - 235.0 | 6.4 | 355.6 | 247.7 | 76.2 | 15.9 | 9.5 | 12.7 | 1.56 | 85.7 | |
| 100-1508 | 10 - 11 3/8 | 1/4 | 18 | 12 | 4 | 3/4 | 3/8 | 3/4 | 450 | 333 | |
| | 254.0 - 288.9 | 6.4 | 457.2 | 304.8 | 101.6 | 15.9 | 12.7 | 19.1 | 2.00 | 151.0 | |
| 100-1509 | 12 - 13 1/2 | 1/4 | 21 1/2 | 14 1/8 | 5 | 3/4 | 3/8 | 3/4 | 600 | 350 | |
| | 304.8 - 342.9 | 6.4 | 546.1 | 358.8 | 127.0 | 15.9 | 12.7 | 19.1 | 2.67 | 158.8 | |
| 100-1510 | 14 - 15 3/4 | 1/4 | 24 1/2 | 16 1/2 | 5 | 3/4 | 3/8 | 3/4 | 700 | 872 | |
| | 355.6 - 400.1 | 6.4 | 622.3 | 419.1 | 127.0 | 19.1 | 12.7 | 19.1 | 3.11 | 395.5 | |
| 100-1511 | 16 - 18 | 3/8 | 27 3/8 | 19 1/2 | 6 | 3/4 | 3/4 | 1 | 750 | 1,023 | |
| | 406.4 - 457.2 | 9.5 | 695.3 | 495.3 | 152.4 | 19.1 | 19.1 | 25.4 | 3.34 | 464.0 | |
| 100-1512 | 19 - 21 | 3/8 | 34 1/2 | 22 1/2 | 6 | 3/4 | 3/4 | 1 | 800 | 1,673 | |
| | 482.6 - 533.4 | 9.5 | 876.3 | 571.5 | 152.4 | 19.1 | 19.1 | 25.4 | 3.56 | 758.9 | |
| 100-1513 | 21 - 22 | 1/2 | 35 1/2 | 24 | 6 | 3/4 | 3/4 | 1 | 850 | 2,323 | |
| | 533.4 - 558.8 | 12.7 | 901.7 | 609.6 | 152.4 | 19.1 | 19.1 | 25.4 | 3.78 | 1,053.7 | |
| 100-1514 | 22 - 24 | 1/2 | 41 | 28 | 6 | 3/4 | 3/4 | 1 | 900 | 2,973 | |
| | 558.8 - 609.6 | 12.7 | 1,041.4 | 711.2 | 152.4 | 19.1 | 19.1 | 25.4 | 4.00 | 1,348.5 | |

200-4101

UNISERT CHANNEL INSERT

- Unisert is a polyurethane nonmetallic insert which can be used with standard cable ties for securing tubing, conduit and cables to standard metal channels.
- The Unisert works with all 1 1/2" channels that are 13/16" deep or more. One size fits 12, 14 and 16 metal gauge channels.

Note: For use only with metallic channel.



Wt/100 pcs: 1.0 Lbs (.5 kg)



1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

PrimeAngle

Metal Grating

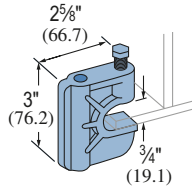
Roofwalk

Index

375PU & 500PU

MOLDED BEAM CLAMPS

Material: glass-reinforced polyurethane

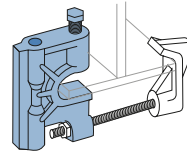


| Assembly Part Number | Size In | Thread Shear Lbs (kN)* | Torque Ft/Lbs (N·m) | Wt/100 pcs Lbs (kg) |
|----------------------|---------|------------------------|---------------------|---------------------|
| 375PU-BC | 3/8 | 400 1.78 | 10 14 | 30 13.6 |
| 500PU-BC | 1/2 | 400 1.78 | 10 14 | 30 13.6 |

*Design load values shown represent a 3:1 safety factor.

RGBC

MOLDED BEAM CLAMP ASSEMBLY



Material: glass-reinforced polyurethane.

F375PU-BCCLP (3/8")
Beam Clip Only



Note: Beam clamp clip must be purchased separately. Illustration purpose only

| Part Number | Size In | Thread Shear Lbs (kN)* | Torque Ft/Lbs (N·m) | Wt/100 pcs Lbs (kg) |
|-------------|---------|------------------------|---------------------|---------------------|
| RGBC-1 | 3/8 | 500 2.22 | 10 14 | 43 19.5 |
| RGBC-2 | 1/2 | 500 2.22 | 10 14 | 43 19.5 |
| RGBC-3 | 5/8 | 500 2.22 | 10 14 | 43 19.5 |

*Design load values shown represent a 3:1 safety factor.

POWER-RACK STANCHIONS

The Power-Rack Stanchion is made entirely from glass-reinforced nylon, these stanchions offer greater corrosion resistance than classical metal stanchions. The interlocking design allows the arm to "lock" into nine different levels on the 14 1/4" stanchions and fourteen on the 17 1/2" stanchion. Glass-reinforced polyurethane stanchions are available as a special order. Contact Unistrut for pricing and availability.

Dimensions – The stanchion back has 9/16" x 1 5/16" holes to accept fasteners for mounting. There are two mounting holes in the 21 3/8" long stanchion and three in the 33 3/8" long stanchion. Thickness at the slotted mounting holes is 1 1/8". The mounting holes are spaced on 12" centers and require 1/2" diameter fasteners.

Installation – The Stanchions can be anchored into existing concrete structures using any industrial anchoring system. For new concrete structures, the Stanchions can be mounted to fiberglass concrete embedment channel and attached with 1/2" channel nuts and 1/2"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. Use these guidelines for a safe, reliable installation:

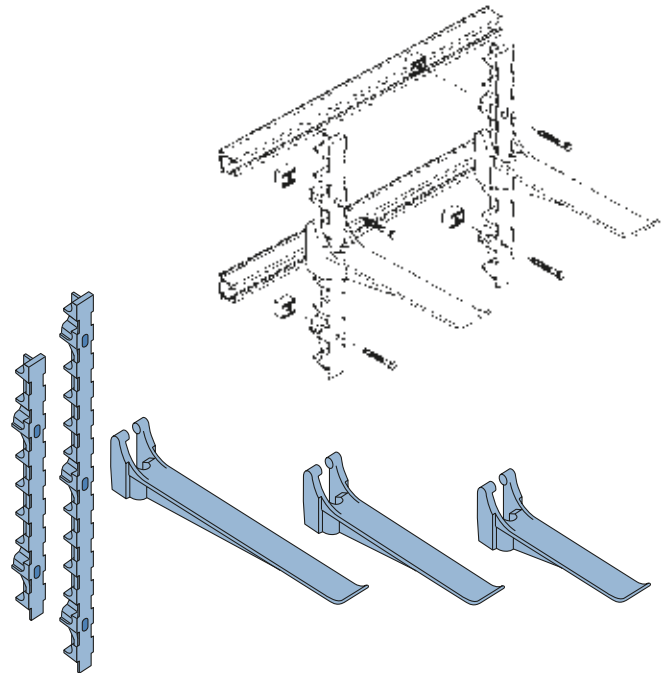
- Total load on any one arm should not exceed 800 lbs.
- The sum of the loads on an arm multiplied by their distances to the wall stanchion should not exceed 1200 in./lbs.

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 | Size In (mm) | Wt/100 pcs Lbs (kg) | Load (lbs.)* Lbs (kN) |
|-----------|-------------|-----------------|---------------------|-----------------------|
| 20N-ARM08 | Arm | 8 203.2 | 100 45.4 | 800 3.56 |
| 20N-ARM14 | Arm | 14 1/4 362.0 | 116 52.6 | 800 3.56 |
| 20N-ARM17 | Arm | 17 1/2 444.5 | 145 65.8 | 800 3.56 |
| 20N-ARM23 | Arm | 23 7/8 606.4 | 186 84.4 | 800 3.56 |
| 20N-STA21 | Stanchion | 21 3/8 542.9 | 149 67.6 | N/A |
| 20N-STA33 | Stanchion | 33 3/8 846.1 | 231 104.8 | N/A |

*Design load values shown represent a 3:1 safety factor.

FIBERGLASS CLAMPS DESIGN LOAD INFORMATION

There are two types of piping system loadings:

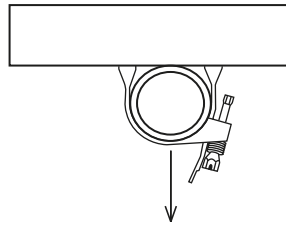
- overhead (Type 1) and
- vertical (Type 2)

as described below.

All pipe straps and clamps show the recommended loading for both types of loading.

Type 1 Overhead Design Load

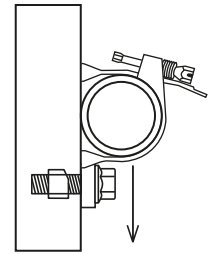
The design load shown represents pipes supported below the strut. The design loads shown are based on a minimum ultimate failure safety factor of 3:1.



Type 2 Vertical Design Load

The design loading shown can be achieved with the addition of a vertical stop lock assembly (Part #F200-4219) 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.



CHEMICAL COMPATIBILITY TABLE

| Chemical | Series | | | | | | | | | |
|---|-----------|-------|------------|-------|-------------|-------|------|-------|-------|-------|
| | E | | P | | V | | PU | | N | |
| | Rigid PVC | | Poly/Glass | | Vinyl/Glass | | Poly | | Nylon | |
| | 70° | 160°F | 70° | 160°F | 70° | 160°F | 70° | 160°F | 70° | 160°F |
| Acetic Acid, Up to 50% | R | R | R | R | R | R | R | - | nr | nr |
| Acetone, Up to 10% | nr | nr | nr | nr | nr | nr | R | - | R | R |
| Aluminum Hydroxide | R | R | R | R | R | R | R | - | nr | nr |
| Ammonium Hydroxide (Aqueous Ammonia), Up to 5% | R | R | nr | nr | R | R | R | - | - | - |
| Ammonium Hydroxide (Aqueous Ammonia), Up to 10% | R | R | nr | nr | R | 150° | R | - | - | - |
| Ammonium Hydroxide, Up to 20% | R | R | nr | nr | R | 150° | R | - | - | - |
| Ammonium Nitrate | R | nr | R | R | R | R | R | - | - | - |
| Ammonium Phosphate | R | R | R | nr | R | R | R | - | - | - |
| Ammonium Sulfide, saturated | R | R | nr | nr | R | 120° | R | - | - | - |
| Aqua Regia, fumes | nr | nr | nr | nr | R | 150° | nr | - | - | - |
| Benzene | nr | nr | nr | nr | nr | nr | R | R | - | R |
| Benzoic Acid | R | R | R | R | R | R | R | - | - | - |
| Bromine, wet gas | R | nr | nr | nr | R | 100° | - | - | - | - |
| Butylene Glycol, Up to 100% | R | R | R | R | R | R | R | - | R | R |
| Butyric Acid, Up to 50% | nr | nr | R | R | R | R | R | - | - | - |
| Calcium Hydroxide | R | R | R | nr | R | R | R | - | - | - |
| Calcium Hypochlorite | R | R | R | nr | R | R | R | - | nr | nr |
| Chlorine, Dry Gas | nr | nr | nr | nr | R | R | - | - | - | - |
| Chlorine, Wet Gas | nr | nr | nr | nr | R | R | - | - | - | - |
| Chlorine, Liquid | nr | nr | nr | nr | nr | nr | - | - | - | - |
| Chlorine, Water | nr | nr | R | R | R | R | R | - | nr | nr |
| Chromic Acid, Up to 5% | R | R | nr | nr | R | R | - | - | R | R |
| Copper Chloride | R | R | R | R | R | R | R | - | - | - |
| Copper Cyanide | R | R | R | nr | R | R | R | - | - | - |
| Copper Fluoride | R | R | R | nr | R | R | R | - | - | - |
| Copper Nitrate | R | R | R | R | R | R | R | - | - | - |
| Copper Sulfate | R | R | R | R | R | R | R | - | - | - |
| Dechlorinated Brine Storage | R | R | - | - | R | R | R | - | - | - |
| Esters, Fatty Acid | nr | nr | R | R | R | R | R | - | - | - |
| Ferric Chloride | R | R | R | R | R | R | R | - | - | - |
| Ferrous Chloride | R | R | R | R | R | R | R | - | - | - |
| Fluoboric Acid | R | R | R | 120° | R | R | - | - | - | - |
| Fluosilicic Acid, Up to 10% | nr | nr | nr | nr | R | R | - | - | nr | nr |
| Fluosilicic Acid, Up to 32% | nr | nr | nr | nr | R | 100° | - | - | - | - |



CHEMICAL COMPATIBILITY TABLE

| Chemical | Series | | | | | | | | | |
|--------------------------------|-----------|-------|------------|-------|-------------|-------|------|-------|-------|-------|
| | E | | P | | V | | PU | | N | |
| | Rigid PVC | | Poly/Glass | | Vinyl/Glass | | Poly | | Nylon | |
| | 70° | 160°F | 70° | 160°F | 70° | 160°F | 70° | 160°F | 70° | 160°F |
| Formic Acid, Up to 10% | R | R | nr | nr | R | R | R | - | nr | nr |
| Formic Acid, Up to 50% | R | R | nr | nr | R | 100° | R | - | - | - |
| Gasoline, Aviation | R | nr | R | nr | R | R | R | - | - | - |
| Green Liquor, Pulp Mill | R | R | - | - | R | R | - | - | - | - |
| Hydrochloric Acid, Up to 15% | R | R | R | nr | R | R | R | - | - | - |
| Hydrochloric Acid, Up to 37% | R | R | R | nr | R | R | R | - | - | - |
| Hydrofluoric Acid, Up to 10% | R | R | nr | nr | R | 150° | - | - | - | - |
| Hydrofluoric Acid, Up to 20% | R | nr | nr | nr | R | 100° | - | - | - | - |
| Hydrogen Chloride Wet Gas | nr | nr | R | nr | R | R | nr | - | - | - |
| Hydrogen Sulfide Wet Gas | R | R | R | nr | R | R | R | - | - | - |
| Lactic Acid | R | R | R | nr | R | R | R | - | - | - |
| Lead Nitrate | R | R | - | - | R | R | R | - | - | - |
| Magnesium Hydroxide | R | R | nr | nr | R | R | R | - | R | R |
| Nickel Sulfate | R | R | nr | nr | R | R | R | - | - | - |
| Nitric Acid, Up to 5% | R | R | nr | nr | R | 150° | R | - | - | - |
| Nitric Acid, Up to 35% | R | R | nr | nr | R | 150° | R | - | - | - |
| Nitric Acid, Vapor | R | R | nr | nr | R | R | R | - | - | - |
| Perchloric Acid, Up to 10% | nr | nr | nr | nr | R | 150° | R | - | nr | nr |
| Pickling Liquids, 3-5% H2SO4 | R | R | R | R | R | R | R | - | - | - |
| Phosphoric Acid | R | R | nr | nr | R | R | R | - | nr | nr |
| Super or Poly (115%, P20%) | R | R | nr | nr | R | R | R | - | - | - |
| Vapor or Condensate | R | R | nr | nr | R | R | R | - | - | - |
| Potassium Chloride | R | R | R | R | R | R | R | - | - | - |
| Potassium Nitrate | R | R | R | R | R | R | R | - | - | - |
| Potassium Persulfate | R | R | nr | nr | R | R | R | - | - | - |
| Silver Cyanide, Up to 5% | R | R | nr | nr | R | R | R | - | - | - |
| Sodium Hydroxide, Up to 25% | R | R | nr | nr | R | 150° | R | - | - | - |
| Sodium Hydroxide, Up to 50% | R | R | nr | nr | R | 180° | R | - | R | R |
| Sodium Hypochlorite, Up to 15% | R | R | nr | nr | R | 150° | R | - | nr | nr |
| Sodium Nitrate | R | R | R | R | R | R | R | - | - | - |
| Sodium Sulfate | R | R | R | nr | R | R | R | - | - | - |
| Sodium Sulfide | R | R | nr | nr | R | R | R | - | - | - |
| Sulfuric Acid, Up to 25% | R | R | R | R | R | R | R | - | nr | nr |
| Sulfuric Acid, Up to 70% | R | R | nr | nr | R | R | R | - | nr | nr |
| Sulfuric Acid, Up to 75% | nr | nr | nr | nr | R | 120° | R | - | nr | nr |
| Sulfuric Acid, Up to 80% | nr | nr | nr | nr | nr | nr | nr | - | nr | nr |
| Sulfuric Acid, Vapor | R | R | R | nr | R | R | R | - | - | - |
| Trichlorethylene, Fumes | nr | nr | nr | nr | R | 120° | R | - | - | - |
| Trisodium Phosphate | R | R | R | nr | R | R | R | - | - | - |
| Urea | R | R | R | nr | R | 150° | R | - | R | R |
| Vegetable Oils | R | R | R | R | R | R | R | - | R | R |
| Vinegar | R | R | R | R | R | R | R | R | R | R |
| White Liquor, Pulp Mill | 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 Unistrut as to effects of such use or results to be obtained nor does Unistrut 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” - “Not Recommended” for use

“R” - “Recommended”

“-” - no information available

FIBERGLASS SPECIFICATIONS

1.0 SCOPE

- 1.1 This specification covers the requirements for the Unistrut 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 Some accessories shall be of injection molded, 40% long glass fiber reinforced polyurethane, 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.

4.0 STRUCTURAL DESIGN

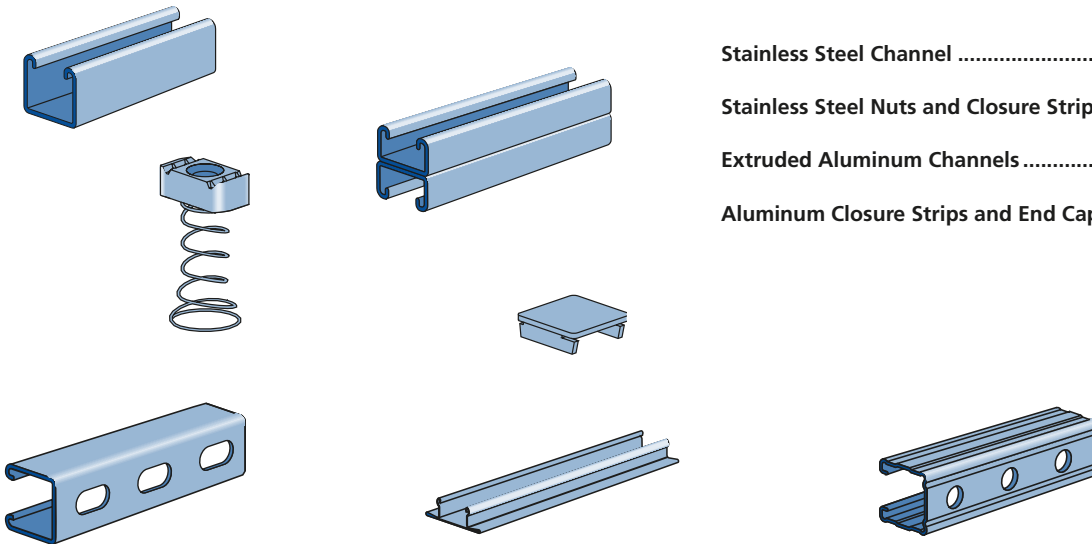
- 4.1 Channel shall incorporate Unistrut's Aickinstrut flange profile design which allows full and positive interlocking contact of channel accessories and prohibits premature flange failure from torqued accessories.
- 4.2 Channel profile dimensions shall be:
 - 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ " x $\frac{1}{4}$ " or
 - 1 $\frac{1}{2}$ " x 1 $\frac{1}{8}$ " x $\frac{1}{8}$ ".
- 4.3 All 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ " channel profiles shall have a minimum pull out resistance of 1,000 pounds when load is applied over a $\frac{3}{8}$ " long section of the inside flanges.
- 4.4 Channel section lengths shall be supplied in 10' or 20' lengths ($\pm\frac{1}{8}$ ").
- 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 $\frac{3}{4}$ " variance in piping or conduit O.D. sizes.

5.0 STANDARDS

- 5.1 Glass-reinforced 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 Unistrut 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 Unistrut Channel Framing System shall be nonmetallic except where type 316 stainless steel hardware is used as part of the assembly.
- 6.4 The manufacturer shall not have had less than 10 years experience in manufacturing strut systems.
- 6.5 All products are manufactured in the United States of America.



Stainless Steel Channel 206

Stainless Steel Nuts and Closure Strips 207

Extruded Aluminum Channels 208 - 209

Aluminum Closure Strips and End Caps 209

MATERIAL

STAINLESS STEEL

- Channels: ASTM A 240 (Type 304)
- Sintered nuts: ASTM B783 (Type SS316N1-25)
- Fittings:
 - ASTM A240 (Type 304 or Type 316) or ASTM A276 (Type 304 or Type 316)
 - Contact factory for specific material availability.

ALUMINUM

- Channels (Extruded): ASTM B221 (Type 6063-T6)
- Fittings: ASTM B209 (Type 1100F or Type 5052-H32)
- Nuts: Stainless steel nuts are recommended for Aluminum channel

| Material/Finish | Part Number Suffix | Example |
|--------------------------|--------------------|----------|
| Stainless Steel Type 304 | SS | P1109 SS |
| Stainless Steel Type 316 | ST | P1109 ST |

LOAD DATA (BEAM & COLUMN)

To determine maximum allowable beam and column loading for channels in this section, multiply the load data in the appropriate mild steel channel sections of this catalog by the following factors:

| Channel Material | Beam Load % Factor | Column Load % Factor |
|-------------------|--------------------|----------------------|
| Extruded Aluminum | 33% | 33% |
| Stainless Steel | 100% | 100% |

LOAD DATA (SLIP & PULL OUT)

EXTRUDED ALUMINUM

To determine nut slip resistance, multiply load data for appropriate nut by 75%. To determine nut pull-out load, multiply load data for appropriate nut by 50%.

STAINLESS STEEL

For design assistance, consult Unistrut customer engineering.

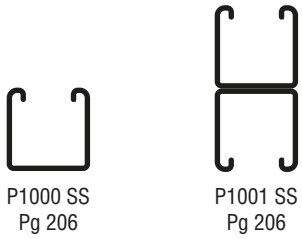
PRODUCT AVAILABILITY

Most fittings and channels shown in this catalog, are available in aluminum or stainless steel. Consult factory for ordering information.

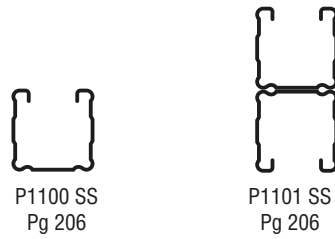
DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

P1000 Series (12 gauge)



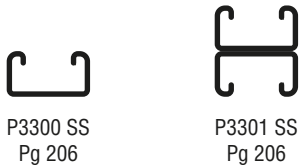
P1100 Series (14 gauge)



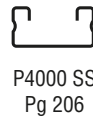
P3000 Series (12 gauge)



P3300 Series (12 gauge)



P4000 Series (16 gauge)



P6000 Series (19 gauge)



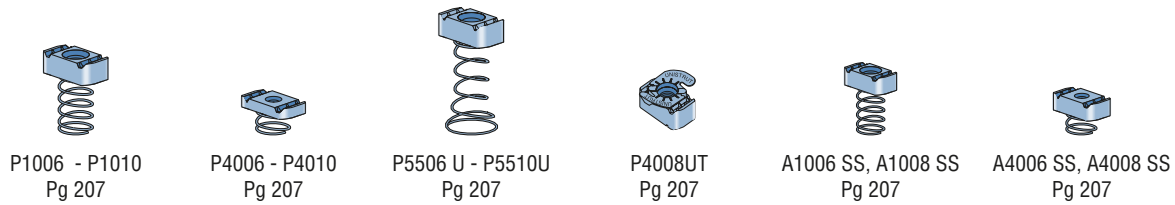
P7000 Series (19 gauge)



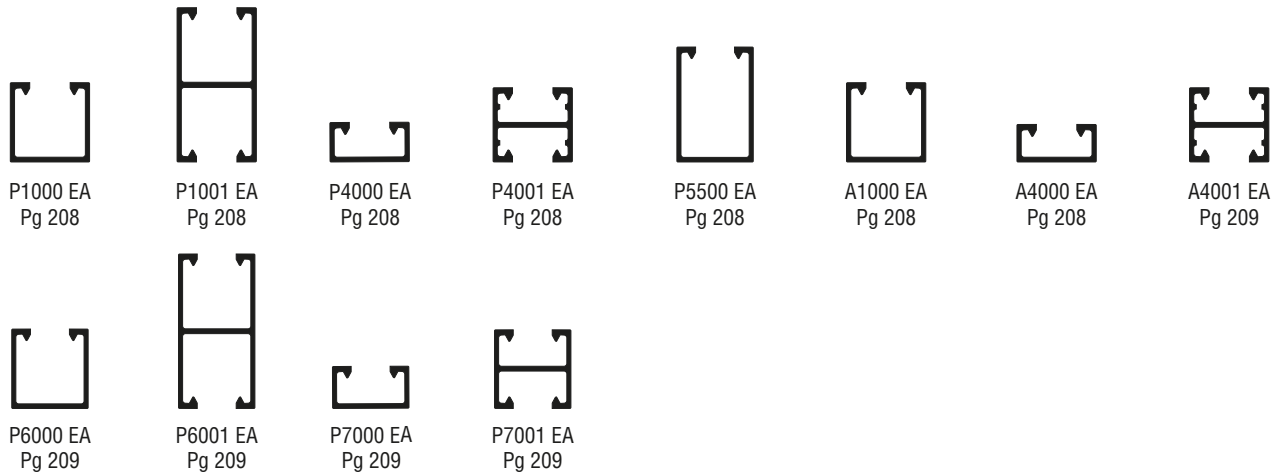
Closure Strips and End Caps



Stainless Steel Channel Nuts



Extruded Aluminum Channels





1/4" System

13/16" System

Fiberglass System

Special Metals

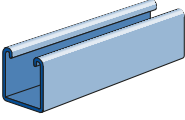
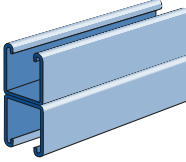
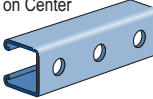
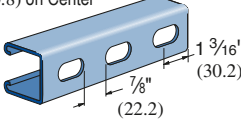
PrimeAngle

Metal Grating

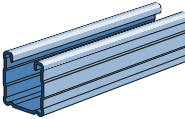
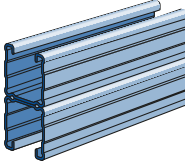
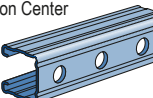
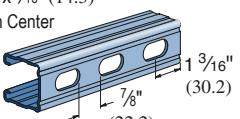
Roofwalk

Index

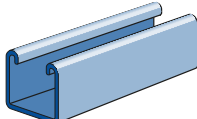
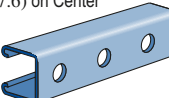
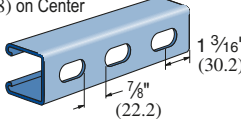
P1000 Series

| | | | |
|---|---|---|--|
| <p>P1000</p>  <p>Wt/100 Ft: 190 Lbs (283 kg/100m)</p> | <p>P1001</p>  <p>Wt/100 Ft: 380 Lbs (566 kg/100m)</p> | <p>P1000HS</p> <p>9/16" (14.3) Dia. Holes 1 7/8" (47.6) on Center</p>  <p>Wt/100 Ft: 185 Lbs (275 kg/100m)</p> | <p>P1000T</p> <p>Slots are 1 1/8" (28.6) x 9/16" (14.3) 2" (50.8) on Center</p>  <p>Wt/100 Ft: 185 Lbs (275 kg/100m)</p> |
|---|---|---|--|

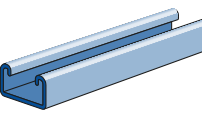
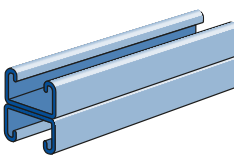
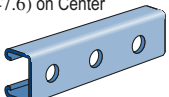
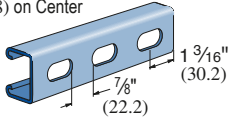
P1100 Series

| | | | |
|---|---|--|--|
| <p>P1100</p>  <p>Wt/100 Ft: 142 Lbs (211 kg/100m)</p> | <p>P1101</p>  <p>Wt/100 Ft: 284 Lbs (422 kg/100m)</p> | <p>P1100HS</p> <p>9/16" (14.3) Dia. Holes 1 7/8" (47.6) on Center</p>  <p>Wt/100 Ft: 136 Lbs (202 kg/100 m)</p> | <p>P1100T</p> <p>Slots are 1 1/8" (28.6) x 9/16" (14.3) 2" (50.8) on Center</p>  <p>Wt/100 Ft: 136 Lbs (202 kg/100m)</p> |
|---|---|--|--|

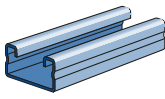
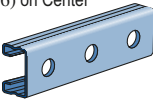
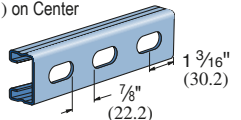
P3000 Series

| | | |
|--|---|--|
| <p>P3000</p>  <p>Wt/100 Ft: 170 Lbs (253 kg/100m)</p> | <p>P3000HS</p> <p>9/16" (14.3) Dia. Holes 1 7/8" (47.6) on Center</p>  <p>Wt/100 Ft: 165 Lbs (112 kg/100m)</p> | <p>P3000T</p> <p>Slots are 1 1/8" (28.6) x 9/16" (14.3) 2" (50.8) on Center</p>  <p>Wt/100 Ft: 165 Lbs (112 kg/100m)</p> |
|--|---|--|

P3300 Series

| | | | |
|---|---|---|--|
| <p>P3300</p>  <p>Wt/100 Ft: 135 Lbs (201 kg/100m)</p> | <p>P3301</p>  <p>Wt/100 Ft: 270 Lbs (402 kg/100m)</p> | <p>P3300HS</p> <p>9/16" (14.3) Dia. Holes 1 7/8" (47.6) on Center</p>  <p>Wt/100 Ft: 130 Lbs (193 kg/100m)</p> | <p>P3300T</p> <p>Slots are 1 1/8" (28.6) x 9/16" (14.3) 2" (50.8) on Center</p>  <p>Wt/100 Ft: 130 Lbs (193 kg/100m)</p> |
|---|---|---|--|

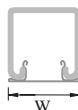
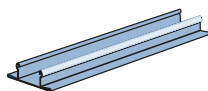
P4000 Series

| | | |
|--|--|---|
| <p>P4000</p>  <p>Wt/100 Ft: 82 Lbs (122 kg/100m)</p> | <p>P4000HS</p> <p>9/16" (14.3) Dia. Holes 1 7/8" (47.6) on Center</p>  <p>Wt/100 Ft: 79 Lbs (110 kg/100m)</p> | <p>P4000T</p> <p>Slots are 1 1/8" (28.6) x 9/16" (14.3) 2" (50.8) on Center</p>  <p>Wt/100 Ft: 79 Lbs (110 kg/100m)</p> |
|--|--|---|

| | |
|---|---|
| <p>P6000</p>  <p>Wt/100 Ft: 37 Lbs (55 kg/100m)</p> | <p>P7000</p>  <p>Wt/100 Ft: 36 Lbs (54 kg/100m)</p> |
|---|---|

P1184

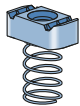

CLOSURE STRIP



Standard length 10 Ft.
Material: Stainless steel type 304.

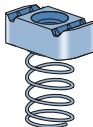

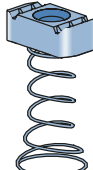
| Part Number | Use With Channel | "W" In (mm) | Wt/100 Ft Lbs (kg/m) |
|-------------|------------------|-------------|----------------------|
| P1184 SS | P1000 | | |
| | P1100 | 1% | 27 |
| | P3300 | 41.3 | 40.2 |
| | P4000 | | |

CHANNEL NUT WITH SPRING – USE WITH 1/4" CHANNEL

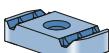
|  | Part number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
|---|-------------|-----------------|---------------------|----------|
| | A1006-1420 | 1/4" -20 | 6 (2.7) | |
| A1008 | 3/8" -16 | 6 (2.7) | | |
|  | Part number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With |
| | A4008 | 3/8" -16 | 5 (2.3) | |

All Springs are Pre-Galvanized

CHANNEL NUT WITH SPRING – USE WITH 1 5/8" CHANNEL

|  | Part number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With 1 5/8" Channel | |
|---|-------------|-----------------|---------------------|-------------------------|-----------------------------------|
| | P1006-1420* | 1/4" 20 | 7 (3.2) | | P1000, P1100, P2000, P3000, P4400 |
| | P1008* | 3/8" 16 | 10 (4.5) | | |
| P1010* | 1/2" 13 | 12 (5.4) | | | |
|  | Part number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With 1 5/8" Channel | |
| | P4006-1420* | 1/4" 20 | 7 (3.2) | | P3300, P4000, P4100, P4520 |
| | P4008* | 3/8" 16 | 9 (4.1) | | |
| P4010* | 1/2" 13 | 9 (4.1) | | | |
|  | Part number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With 1 5/8" Channel | |
| | P5506-1420* | 1/4" 20 | 7 (3.2) | | P5000, P5500 |
| | P5508* | 3/8" 16 | 10 (4.5) | | |
| P5510* | 1/2" 13 | 10 (4.5) | | | |

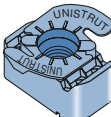
CHANNEL NUT WITHOUT SPRINGS – USE WITH 1 5/8" CHANNEL

|  | Part number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With 1 5/8" Channel |
|---|---------------|-----------------|----------------------------|-------------------------|
| | P3006-1420 SS | 1/4" 20 | 7 (3.2) | |
| | P3008 SS | 3/8" 16 | 10 (4.5) | |
| P3010 SS | 1/2" 13 | 12 (5.4) | P1000, P1100, P2000, P3000 | |

* Domestic stainless steel nuts are available. To designate a domestic part, insert a "U" as the sixth character in the part number. Ex: P3008U SS or P3010U SS

* Domestic stainless steel nuts are available. To designate a domestic part, insert a "U" as the sixth character in the part number. Ex: P4006U 1420 SS or P1008U SS.

TOP SPRING CHANNEL NUTS – USE WITH 1 5/8" CHANNEL

|  | Part number | Nut Size Thread | Wt/100 pcs Lbs (kg) | Use With 1 5/8" Channel |
|---|----------------|-----------------|--|-------------------------|
| | P4008UT SS* | 3/8" 16 | 12 (5.4) | |
| | P1006TU1420SS* | 1/4" -20 | 7 (3.2) | Any Channel |
| | P1008TU SS* | 3/8" -16 | 10 (4.5) | |
| P1010TU SS* | 1/2" -13 | 12 (5.4) | Any Channel Except P3300, P4000, P4400, P4520, P4100 | |

Top Spring stainless steel channel nuts are domestic

Note

Most fittings, as shown in this catalog are available in stainless steel or aluminum. It is recommended that stainless steel channel nuts be used with aluminum channels.

1/4" System

1 3/16" System

Fiberglass System

Special Metals

PrimeAngle

Metal Grating

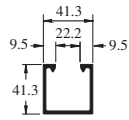
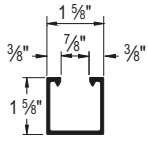
Roofwalk

Index

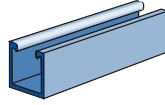


1 1/4" System

P1000 EA



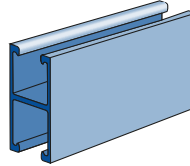
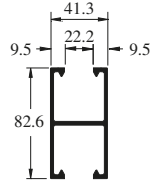
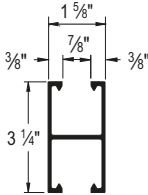
When used with P3184 EA.



Wt/100 Ft: 76 Lbs (113 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .109" (2.8mm)

1 3/16" System

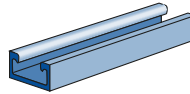
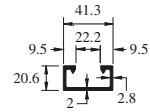
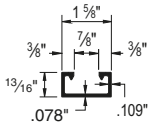
P1001 EA



Wt/100 Ft: 134 Lbs (199 kg/100 m)
Aluminum Type 6063-T6
12 Gauge Nominal Thickness .109" (2.8mm)

Fiberglass System

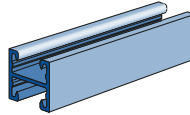
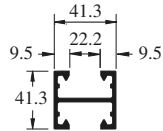
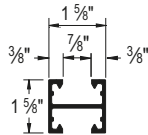
P4000 EA



Wt/100 Ft: 45 Lbs (67 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .078" (2.0mm)

Special Metals

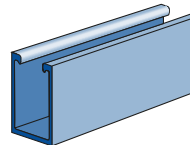
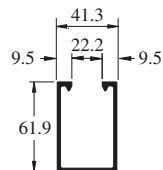
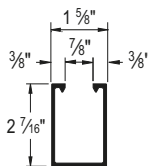
P4001 EA



Wt/100 Ft: 66 Lbs (98 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .078" (2.0mm)

PrimeAngle

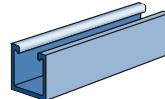
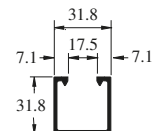
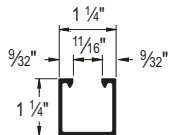
P5500 EA



Wt/100 Ft: 97 Lbs (144 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .109" (2.8mm)

Metal Grating

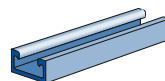
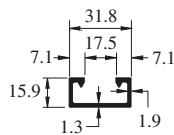
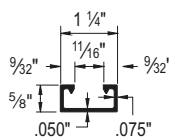
A1000 EA



Wt/100 Ft: 40 Lbs (60 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .075" (1.9mm)

Roofwalk

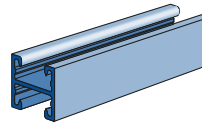
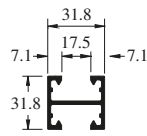
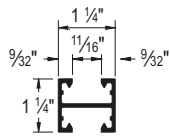
A4000 EA



Wt/100 Ft: 25 Lbs (37 kg/100 m)
Aluminum Type 6063-T6
12 Gauge Nominal Thickness .050" (1.3mm)
Standard Length 16 Ft.

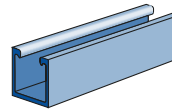
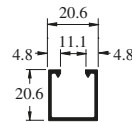
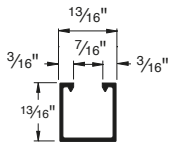
Index

A4001 EA



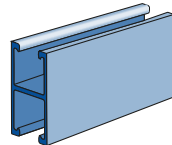
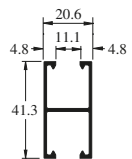
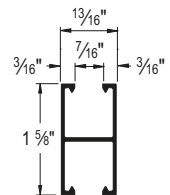
Wt/100 Ft: 40 Lbs (60 kg/100 m)
 Aluminum Type 6063-T6
 Nominal Thickness .078" (2.0mm)
 Standard Length 16 Ft.

P6000 EA



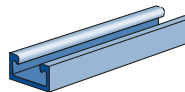
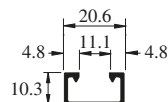
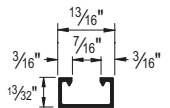
Wt/100 Ft: 12 Lbs (18 kg/100 m)
 Aluminum Type 6063-T6
 Nominal Thickness .040" (1.0mm)
 Standard Length 16 Ft.

P6001 EA



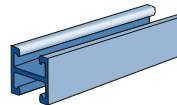
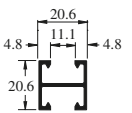
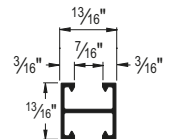
Wt/100 Ft: 20 Lbs (30 kg/100 m)
 Aluminum Type 6063-T6
 Nominal Thickness .040" (1.0mm)
 Standard Length 16 Ft.

P7000 EA



Wt/100 Ft: 9 Lbs (13 kg/100 m)
 Aluminum Type 6063-T6
 Nominal Thickness .040" (1.0mm)
 Standard Length 10 Ft.

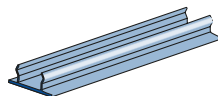
P7001 EA



Wt/100 Ft: 17 Lbs (25 kg/100 m)
 Aluminum Type 6063-T6
 12 Gauge Nominal Thickness .040" (1.0mm)
 Standard Length 10 Ft

P3184 EA

CLOSURE STRIP



Wt/100 Ft: 21 Lbs (31 kg/100 m)
 Aluminum Type 6063-T6
 Standard Length 10 Ft

P1280 EA, P4280 EA, P5580 EA

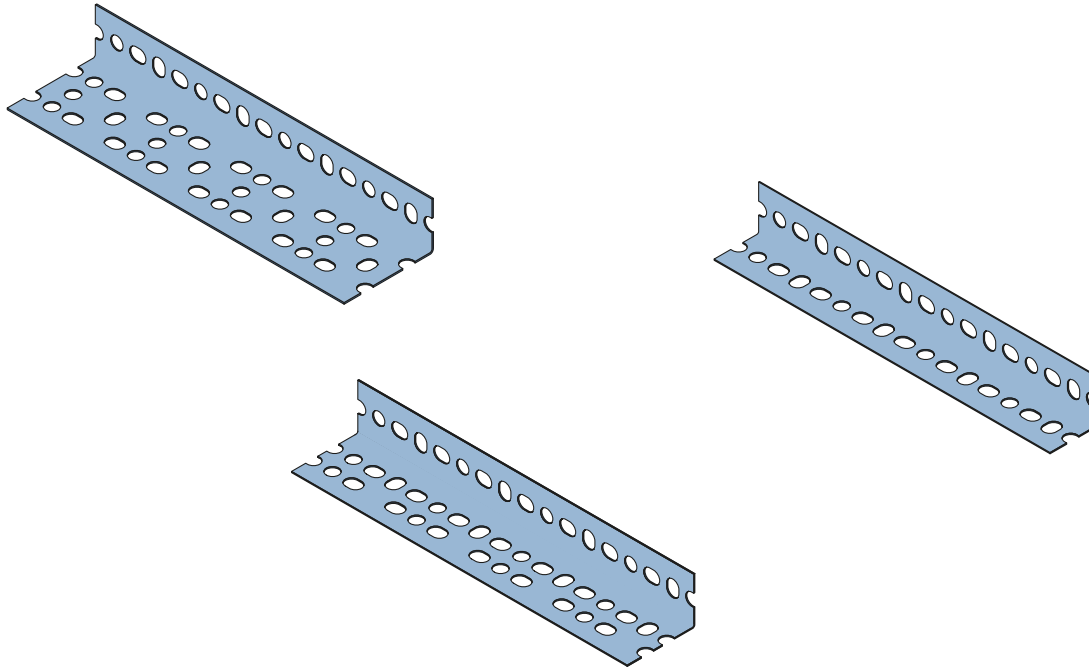
END CAPS



| Part Number | Use With Channel | Wt/100 Ft Lbs(kg/m) |
|-------------|------------------|---------------------|
| P1280 EA | P1000 EA | 3.5 (1.6) |
| P4280 EA | P4000 EA | 1.5 (0.7) |
| P5500 EA | P5500 EA | 4.9 (2.2) |



| | |
|----------------------------------|-----------|
| PrimeAngle™ | 211 |
| Accessories | 212 |
| PrimeAngle™ Technical Data | 213 - 215 |



MATERIAL

STEEL: PLAIN

12 Gauge (.105" 1.0 mm) ASTM 1011 SS GR 33,
14 Gauge (.076) ASTM 1011 SS GR 33

STEEL: PRE-GALVANIZED

12 Gauge (.105" 1.0 mm) ASTM A653 GR 33,
14 Gauge (.076) ASTM A653 GR 33

FINISHES

Available in two durable, long-lasting finishes:

Pre-Galvanized (PG) or

Perma-Green III (GR) conforming to
ASTM B633 Type III SC1.

STANDARD LENGTHS

Standard lengths are 10' and 12'. Slotted angle is shipped in ten-piece bundles complete with 75 pieces of 3/8" - 16 x 3/4" hex head bolts and 3/8" nuts.

ORDERING INFORMATION:

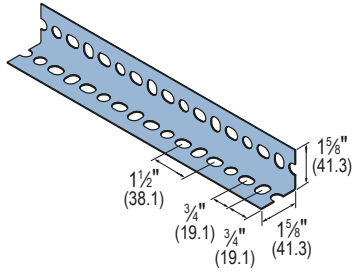
When ordering, add the length or size and finish to the part number.

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

PA 158

(1 5/8" x 1 5/8" x 14 GA.) LIGHT DUTY **PG**



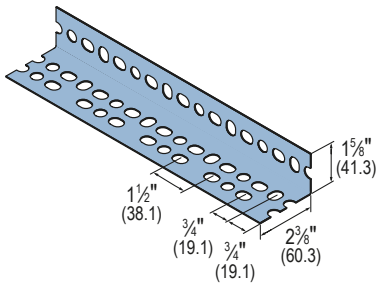
Note: Includes Serrated Nuts & Bolts

For those jobs where extra strength is not necessary. Ideal for light-duty shelving or racking.

Wt/100 Ft.: 66 lbs (29.9 kg)

PA 238

(1 5/8" x 2 3/8" x 14 GA.) MEDIUM DUTY **PG**



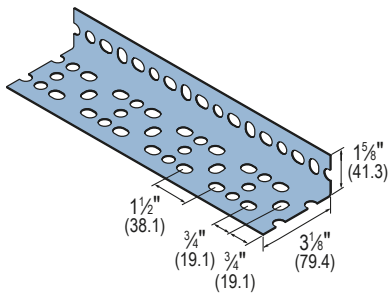
Note: Includes Serrated Nuts & Bolts

Perfect for the majority of framing needs, including shelving, racking and electrical or mechanical support jobs.

Wt/100 Ft: 80 lbs(36.3 kg)

PA 318

(1 5/8" x 3 1/8" x 12 GA.) HEAVY DUTY



Note: Includes Serrated Nuts & Bolts

Suitable for balconies, ramps, large racks and shelving systems, as well as other structures with substantial load requirements.

Wt/100 Ft: 130 lbs (59.0 kg)

1 1/4" System

1 3/16" System

Fiberglass System

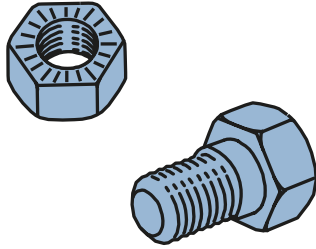
Special Metals

PrimeAngle

Metal Grating

Roofwalk

Index



Wt/100 pcs: 7 lbs (3.2 kg)

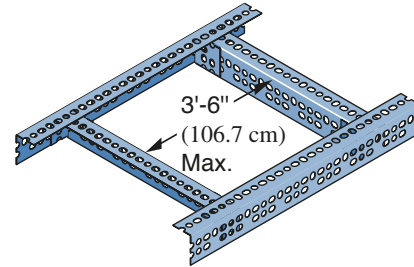
TRANSVERSE STIFFENERS

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' (182.9 cm) long or less require only one stiffener in the center of the span. Seven-foot beams need two stiffeners placed 2' (61.0 cm) from each end. Eight-foot beams require two stiffeners 2'6" (76.2 cm) from the ends. For beams with a nine-foot span, it is necessary to have three stiffeners at 2'3" (68.6 cm) intervals. Ten-foot beams need three stiffeners with 2'6" spacings.

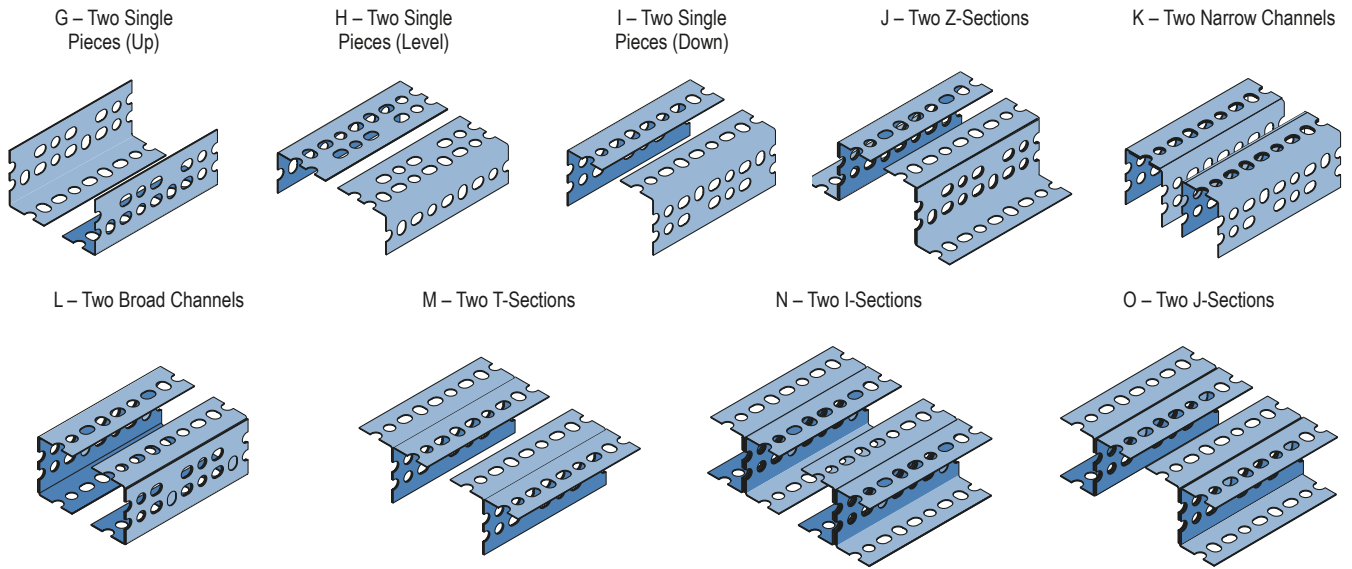
For maximum effectiveness, transverse stiffeners should never be spaced more than 3'6" (106.7 cm) apart.

Note: All loads based on actual physical testing. Documentation available on request.



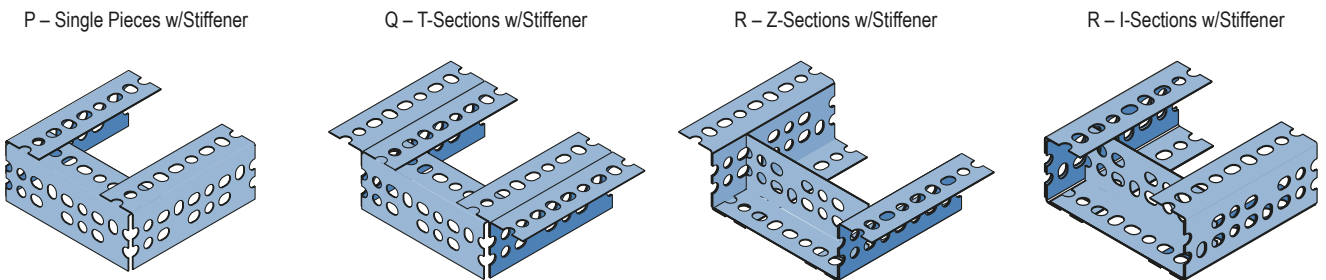
BEAM CONFIGURATIONS

(See corresponding letters in table on following page for load data)



BEAM CONFIGURATIONS WITH STIFFENERS

(See corresponding letters in table on following page for load data)

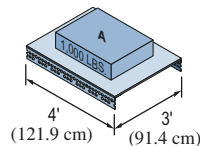


BEAM LOAD CALCULATIONS

The beam loading depends on which slotted angle is used and the manner in which the beam is constructed. The diagrams above 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 next page.

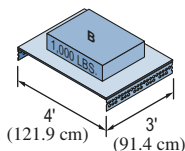
Example - Load "A"

Load "A" is supported by two 48" (121.9 cm) sections of PA-238 (1 5/8" x 2 3/8") (41.3mm x 60.3mm). The 48" row in the PA 238 table on next page 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 1,100 lbs (4.9 kN).



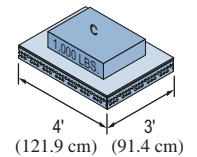
Example - Load "B"

Load "B" is supported by two 36" (91.4 cm) sections of PA-238 (1 5/8" x 2 3/8") (41.3mm x 60.3mm). The 36" row in the PA 238 table on next page 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 1,100 lbs (4.9 kN).



Example - Load "C"

Load "C" is supported by all four beam sections. The load is distributed uniformly on two 3' (91.4 cm) and two 4' (121.9 cm) beams which total 14' (426.7 cm) of supporting beam length. Dividing the 1,000 lbs. (4.5 kN) load by 14-feet equals 72 lbs. per foot (106.3 kg per meter). Using the two 4' (121.9 cm) longest (weakest) lengths, calculate the total weight as follows:



$$2 \text{ (beams)} \times 4' \text{ (length)} \times 72 \text{ lbs./ft.} = 576 \text{ lbs. total wt.}$$

$$2 \text{ (beams)} \times 121.9 \text{ cm (length)} \times 106.3 \text{ kg/M} = 25,915 \text{ kg total wt.}$$

The 36" (91.4 cm) row in the PA 238 table on next page 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 830 lbs. (3.7 kN) 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.

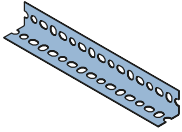


BEAM LOADS

(See corresponding letters in table on previous page for configurations)

PA 158

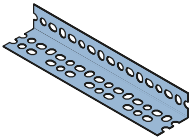
LIGHT DUTY, (1 5/8" x 1 5/8" x 14 GA.)



| Span In. (cm) | G Lbs (kN) | H Lbs (kN) | I Lbs (kN) | P Lbs (kN) | L Lbs (kN) | R Lbs (kN) | M Lbs (kN) |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 24 | 550 | 830 | 830 | 920 | 1,600 | 1,700 | 1,840 |
| 61.0 | 2.45 | 3.69 | 3.69 | 4.09 | 7.12 | 7.56 | 8.18 |
| 36 | 370 | 560 | 560 | 610 | 1,070 | 1,130 | 1,230 |
| 91.4 | 1.65 | 2.49 | 2.49 | 2.71 | 4.76 | 5.03 | 5.47 |
| 48 | 280 | 420 | 420 | 460 | 800 | 850 | 920 |
| 121.9 | 1.25 | 1.87 | 1.87 | 2.05 | 3.56 | 3.78 | 4.09 |
| 60 | 220 | 330 | 330 | 370 | 640 | 680 | 740 |
| 152.4 | 0.98 | 1.47 | 1.47 | 1.65 | 2.85 | 3.02 | 3.29 |
| 72 | 180 | 280 | 280 | 310 | 530 | 570 | 610 |
| 182.9 | 0.80 | 1.25 | 1.25 | 1.38 | 2.36 | 2.54 | 2.71 |
| 84 | • | 240 | 240 | 260 | 460 | 490 | 530 |
| 213.4 | • | 1.07 | 1.07 | 1.16 | 2.05 | 2.18 | 2.36 |
| 96 | • | 210 | 210 | 230 | 400 | 430 | 460 |
| 243.8 | • | 0.93 | 0.93 | 1.02 | 1.78 | 1.91 | 2.05 |
| 108 | • | • | • | • | 360 | 380 | 410 |
| 274.3 | • | • | • | • | 1.60 | 1.69 | 1.82 |
| 120 | • | • | • | • | 320 | 340 | 370 |
| 304.8 | • | • | • | • | 1.42 | 1.51 | 1.65 |

PA 238

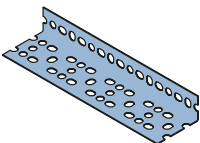
MEDIUM DUTY, (1 5/8" x 2 3/8" x 14 GA.)



| Span In. (cm) | G Lbs (kN) | H Lbs (kN) | I Lbs (kN) | P Lbs (kN) | J Lbs (kN) | L Lbs (kN) | R Lbs (kN) | M Lbs (kN) | K Lbs (kN) | Q Lbs (kN) | O Lbs (kN) | N Lbs (kN) |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 24 | 700 | 1,020 | 1,660 | 1,740 | 2,220 | 3,170 | 3,230 | 3,490 | 3,590 | 3,630 | 6,060 | 7,560 |
| 61.0 | 3.11 | 4.54 | 7.38 | 7.74 | 9.88 | 14.10 | 14.37 | 15.52 | 15.97 | 16.15 | 26.96 | 33.63 |
| 36 | 460 | 680 | 1,100 | 1,160 | 1,480 | 2,110 | 2,150 | 2,320 | 2,390 | 2,420 | 4,040 | 5,040 |
| 91.4 | 2.05 | 3.02 | 4.89 | 5.16 | 6.58 | 9.39 | 9.56 | 10.32 | 10.63 | 10.76 | 17.97 | 22.42 |
| 48 | 350 | 510 | 830 | 870 | 1,110 | 1,580 | 1,620 | 1,740 | 1,800 | 1,810 | 3,030 | 3,780 |
| 121.9 | 1.56 | 2.27 | 3.69 | 3.87 | 4.94 | 7.03 | 7.21 | 7.74 | 8.01 | 8.05 | 13.48 | 16.81 |
| 60 | 280 | 410 | 660 | 700 | 890 | 1,270 | 1,290 | 1,390 | 1,440 | 1,450 | 2,420 | 3,020 |
| 152.4 | 1.25 | 1.82 | 2.94 | 3.11 | 3.96 | 5.65 | 5.74 | 6.18 | 6.41 | 6.45 | 10.76 | 13.43 |
| 72 | 230 | 340 | 550 | 580 | 740 | 1,060 | 1,080 | 1,160 | 1,200 | 1,210 | 2,020 | 2,520 |
| 182.9 | 1.02 | 1.51 | 2.45 | 2.58 | 3.29 | 4.72 | 4.80 | 5.16 | 5.34 | 5.38 | 8.99 | 11.21 |
| 84 | • | 290 | 470 | 500 | 630 | 910 | 920 | 1,000 | 1,030 | 1,040 | 1,730 | 2,160 |
| 213.4 | • | 1.29 | 2.09 | 2.22 | 2.80 | 4.05 | 4.09 | 4.45 | 4.58 | 4.63 | 7.70 | 9.61 |
| 96 | • | 260 | 410 | 440 | 550 | 790 | 810 | 870 | 900 | 910 | 1,520 | 1,890 |
| 243.8 | • | 1.16 | 1.82 | 1.96 | 2.45 | 3.51 | 3.60 | 3.87 | 4.00 | 4.05 | 6.76 | 8.41 |
| 108 | • | • | • | • | 490 | 700 | 720 | 770 | 800 | 810 | 1,350 | 1,680 |
| 274.3 | • | • | • | • | 2.18 | 3.11 | 3.20 | 3.43 | 3.56 | 3.60 | 6.01 | 7.47 |
| 120 | • | • | • | • | 440 | 630 | 650 | 700 | 720 | 730 | 1,210 | 1,510 |
| 304.8 | • | • | • | • | 1.96 | 2.80 | 2.89 | 3.11 | 3.20 | 3.25 | 5.38 | 6.72 |

PA 318

HEAVY DUTY, (1 5/8" x 3 3/8" x 12 GA.)



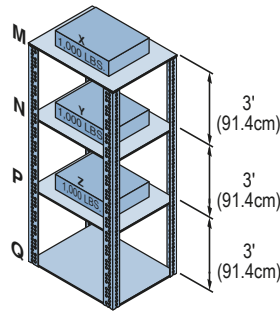
| Span In. (cm) | G Lbs (kN) | H Lbs (kN) | I Lbs (kN) | P Lbs (kN) | J Lbs (kN) | L Lbs (kN) | R Lbs (kN) | M Lbs (kN) | K Lbs (kN) | Q Lbs (kN) | O Lbs (kg) | N Lbs (kg) |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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 |
| 61.0 | 7.96 | 7.16 | 19.13 | 22.06 | 29.00 | 35.19 | 35.90 | 44.13 | 44.44 | 45.24 | 64.94 | 71.71 |
| 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 |
| 91.4 | 5.34 | 4.76 | 12.77 | 14.72 | 19.35 | 23.44 | 23.93 | 29.40 | 29.63 | 30.16 | 43.28 | 47.82 |
| 48 | 900 | 810 | 2,150 | 2,480 | 3,260 | 3,950 | 4,030 | 4,960 | 4,990 | 5,080 | 7,300 | 8,060 |
| 121.9 | 4.00 | 3.60 | 9.56 | 11.03 | 14.50 | 17.57 | 17.93 | 22.06 | 22.20 | 22.60 | 32.47 | 35.85 |
| 60 | 720 | 640 | 1,720 | 1,980 | 2,610 | 3,160 | 3,230 | 3,970 | 4,000 | 4,070 | 5,840 | 6,450 |
| 152.4 | 3.20 | 2.85 | 7.65 | 8.81 | 11.61 | 14.06 | 14.37 | 17.66 | 17.79 | 18.10 | 25.98 | 28.69 |
| 72 | 600 | 540 | 1,430 | 1,650 | 2,170 | 2,640 | 2,690 | 3,310 | 3,330 | 3,390 | 4,870 | 5,370 |
| 182.9 | 2.67 | 2.40 | 6.36 | 7.34 | 9.65 | 11.74 | 11.97 | 14.72 | 14.81 | 15.08 | 21.66 | 23.89 |
| 84 | • | 460 | 1,230 | 1,420 | 1,860 | 2,260 | 2,300 | 2,830 | 2,850 | 2,910 | 4,170 | 4,610 |
| 213.4 | • | 2.05 | 5.47 | 6.32 | 8.27 | 10.05 | 10.23 | 12.59 | 12.68 | 12.94 | 18.55 | 20.51 |
| 96 | • | 400 | 1,080 | 1,240 | 1,630 | 1,980 | 2,020 | 2,480 | 2,500 | 2,540 | 3,650 | 4,030 |
| 243.8 | • | 1.78 | 4.80 | 5.52 | 7.25 | 8.81 | 8.99 | 11.03 | 11.12 | 11.30 | 16.24 | 17.93 |
| 108 | • | • | • | 1,100 | 1,450 | 1,760 | 1,790 | 2,200 | 2,220 | 2,260 | 3,240 | 3,580 |
| 274.3 | • | • | • | 4.89 | 6.45 | 7.83 | 7.96 | 9.79 | 9.88 | 10.05 | 14.41 | 15.92 |
| 120 | • | • | • | 990 | 1,300 | 1,580 | 1,610 | 1,980 | 2,000 | 2,030 | 2,920 | 3,220 |
| 304.8 | • | • | • | 4.40 | 5.78 | 7.03 | 7.16 | 8.81 | 8.90 | 9.03 | 12.99 | 14.32 |

COLUMN LOADS

Column sections are calculated as described in the following example: (Assumes use of PA-238 1 5/8" x 2 3/8"(41.3mm x 60.3mm), material.)

Since all load areas are supported equally by the 4-columns, the calculations are based on a single-column section.

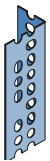
Section MN is one-fourth of "X", or 250 pounds (1.1 kN). Column section NP supports one-fourth of "Y" (250 pounds) plus the load supported by MN, or a total of 500 pounds (2.2 kN). Section PQ supports one-fourth of "Z" (250 pounds) plus the 500 pound load on section NP, or a total of 750 (3.3kN) pounds.



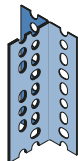
Column loads are based on free and unbraced column lengths. Since MN, NP and PQ are each 3' long, the load requirement is for a 36" section that will bear 750 pounds safely. A reference to the PA 238 table to the right indicates that all sections designated "A" will support 2,280 lbs. (10.1 kN) and meet 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 to match the 14 gauge 1 5/8" x 2 3/8" (41.3mm x 60.3mm) material selected for the beams of this structure.

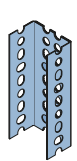
A – Single Piece



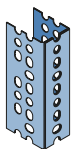
B – T-Section



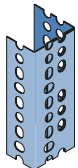
B – Broad Channel Section



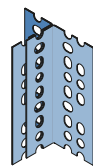
B – Narrow Channel Section



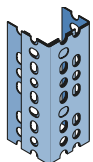
C – Uneven T-Section



C – Uneven Channel Section



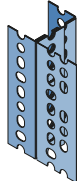
D – Dual Channel Section



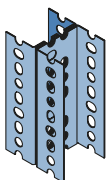
D – T-Channel Section



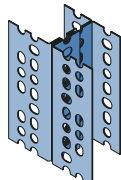
D – T-Channel Section



E – I-Section

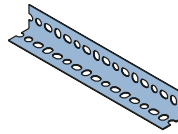


F – Uneven I-Section



PA 158

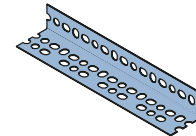
(1 5/8" x 1 5/8" x 14 GA.)



| Span In. (cm) | A Lbs (kN) | B Lbs (kN) |
|---------------|------------|------------|
| 36 | 1,450 | 3,850 |
| 91.4 | 6.45 | 17.13 |
| 48 | 1,150 | 3,500 |
| 121.9 | 5.12 | 15.57 |
| 60 | 950 | 3,000 |
| 152.4 | 4.23 | 13.34 |
| 72 | 750 | 2,500 |
| 182.9 | 3.34 | 11.12 |

PA 238

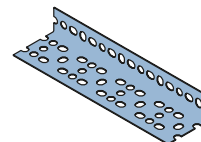
(1 5/8" x 2 3/8" x 14 GA.)



| Span In. (cm) | A Lbs (kN) | B Lbs (kN) | C Lbs (kN) | D Lbs (kN) | E Lbs (kN) | F Lbs (kN) |
|---------------|------------|------------|------------|------------|------------|------------|
| 36 | 2,280 | 4,760 | 4,940 | 7,270 | 9,520 | 9,865 |
| 91.4 | 10.14 | 21.17 | 21.97 | 32.34 | 42.35 | 43.88 |
| 48 | 1,970 | 4,490 | 4,680 | 6,920 | 8,970 | 9,330 |
| 121.9 | 8.76 | 19.97 | 20.82 | 30.78 | 39.90 | 41.50 |
| 60 | 1,520 | 3,995 | 4,310 | 6,370 | 7,990 | 8,620 |
| 152.4 | 6.76 | 17.77 | 19.17 | 28.34 | 35.54 | 38.34 |
| 72 | 1,070 | 3,140 | 3,870 | 5,840 | 6,280 | 7,715 |
| 182.9 | 4.76 | 13.97 | 17.21 | 25.98 | 27.93 | 34.32 |
| 84 | 660 | 2,340 | 3,665 | 4,930 | 4,660 | 6,740 |
| 213.4 | 2.94 | 10.41 | 16.30 | 21.93 | 20.73 | 29.98 |
| 96 | . | 1,750 | 2,700 | 3,850 | 3,500 | 5,365 |
| 243.8 | . | 7.78 | 12.01 | 17.13 | 15.57 | 23.86 |
| 108 | . | . | 2,060 | 2,870 | . | 4,115 |
| 274.3 | . | . | 9.16 | 12.77 | . | 18.30 |
| 120 | . | . | 1,610 | 2,690 | . | 3,210 |
| 304.8 | . | . | 7.16 | 11.97 | . | 14.28 |

PA 318

(1 5/8" x 3 1/8" x 12 GA.)



| Span In. (cm) | A Lbs (kN) | B Lbs (kN) | C Lbs (kN) | D Lbs (kN) | E Lbs (kN) | F Lbs (kN) |
|---------------|------------|------------|------------|------------|------------|------------|
| 36 | 3,470 | 7,970 | 8,770 | 12,560 | 15,940 | 17,550 |
| 91.4 | 15.44 | 35.45 | 39.01 | 55.87 | 70.90 | 78.07 |
| 48 | 2,870 | 7,360 | 8,580 | 11,970 | 14,750 | 17,150 |
| 121.9 | 12.77 | 32.74 | 38.17 | 53.25 | 65.61 | 76.29 |
| 60 | 1,970 | 6,570 | 8,180 | 11,360 | 13,160 | 16,360 |
| 152.4 | 8.76 | 29.22 | 36.39 | 50.53 | 58.54 | 72.77 |
| 72 | 1,280 | 5,270 | 7,690 | 10,480 | 10,560 | 15,360 |
| 182.9 | 5.69 | 23.44 | 34.21 | 46.62 | 46.97 | 68.32 |
| 84 | . | 3,670 | 6,970 | 9,470 | 7,370 | 13,970 |
| 213.3 | . | 16.32 | 31.00 | 42.12 | 32.78 | 62.14 |
| 96 | . | 2,580 | 6,260 | 8,370 | 5,170 | 12,570 |
| 243.8 | . | 11.48 | 27.85 | 37.23 | 23.00 | 55.91 |
| 108 | . | . | 5,460 | 6,880 | . | 10,970 |
| 274.3 | . | . | 24.29 | 30.60 | . | 48.80 |
| 120 | . | . | 4,460 | 5,370 | . | 8,960 |
| 304.8 | . | . | 19.84 | 23.89 | . | 39.86 |



UNISTRUT

UNITED INTERLOCK® GRATING

United Interlock Plank Grating System from Unistrut, commonly known as Interlock Grating, fills a multitude of needs including flooring and walkways, mezzanines, stair treads, maintenance and staging platforms, scaffolding planks, architectural wall coverings and more. United Interlock Grating Systems meets your needs for strength, durability, safety and aesthetics.



Customers choose United Interlock Grating Systems for many reasons:

- Cost-effectiveness
- Easy-to-install product
- Quality assurance that comes from extensive load testing
- Strong design look of our plank grating

United Interlock Grating Applications include:

- Architectural wall coverings
- Catwalks, walkways and pedestrian ramps
- Maintenance and inspection walkways
- Ventilation covers for tanks and wells
- Mining and quarry tower decking
- Pumping and drilling platforms
- Subflooring
- Mezzanines
- Shelving
- Stairs



| | |
|-----------------------------------|-----------|
| Ease of Installation | 217 |
| Plank Grating | 218 - 219 |
| Accessories | 220 - 222 |
| Heavy Duty Stair Treads | 223 |
| Design and Testing | 224 |
| Plank Loads and Deflections | 225 - 230 |
| Architectural Specifications..... | 231 |



Architectural Applications

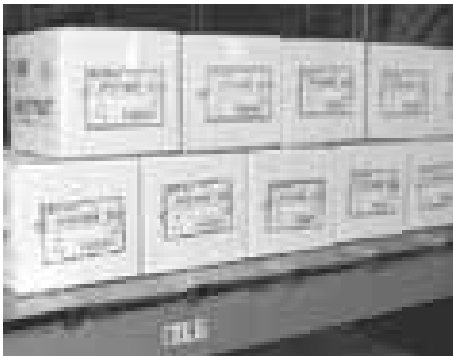
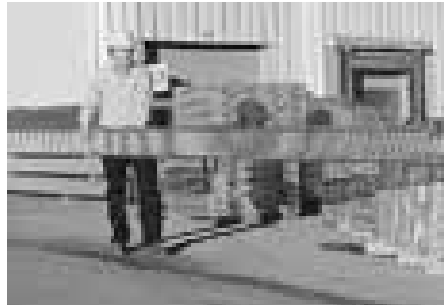
Interlock Grating provides a functional and aesthetically appealing look to architectural applications. Aluminum gratings resist corrosion to give walls, ceilings, ledges, trim, flooring, and specialty projects a clean, lasting, high-tech look.

Interlocking plank grating works especially well in intensive-use areas. In addition to its durability, it is easy to clean and does not reflect sound like a solid surface.

Architects have often selected Interlock Grating because it protects lights, insulation support columns, wiring, and other fixtures. And, the panels allow authorized personnel to access the fixtures.

Contractors have reported installed cost savings of up to 75% with Interlock Grating. Many factors combine to make installation quick and easy:

- 1) The lightweight grating is easy to handle. One person can carry a 24' plank.
- 2) Interlock Grating is easy to install with a minimal number of laborers.
- 3) Interlock Grating's light weight reduces shipping costs.
- 4) The planks interlock with positive friction, eliminating costly welding and bolting in some cases.
- 5) Field modifications are easy. Interlock Grating can be cut to size, shape, and angle at the jobsite.
- 6) Interlock Grating requires fewer support structures.



1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

PrimeAngle

Metal Grating

Roofwalk

Index

United Interlock Grating strength-to-weight ratio allows it to withstand substantial loads while being easy to handle. The male-female legs of the roll-formed grating interlock securely, and double-male legs provide a safe finished edge for end planks.

Two standard surfaces are available: slotted-smooth and anti-skid. Anti-skid is the ideal choice when safe walking conditions are important. Die-formed teeth in the transverse ribs give you 360° of shoe-gripping traction even when the grating is wet, oily, muddy, or icy.



Interlock Grating Features

Maximizes performance and safety...

- Anti-skid surface provides 360° of slip resistance
- All sections made from structural-grade steel
- Roll-formed design provides superior strength
- Optional heel-toe side and end plates
- Open design prevents build-up of water, grease, oil and small debris

And gives you complete project versatility.

- 6", 9" and 12" plank widths allow design in 3" increments
- Standard lengths of 20' and 24', and special lengths up to 30', provide excellent design flexibility
- Choice of smooth punched, anti-skid punched or solid unpunched surfaces
- Four leg heights, and two material gauges meet a wide range of load, space and budget requirements

Punched Interlock Grating has an open area of 43% for 12" grating, 42% for 9" grating and 35% for 6" grating. This prevents dirt, debris, ice, and snow from building up on the surface and allows light and air to pass through. United Interlock steel grating is made from pre-galvanized steel which conforms to a G-90 thickness designation per ASTM A653. The aluminum grating is made from type 5052 aluminum with a thickness of 0.080".

Unpunched smooth surface grating is also available for special applications.

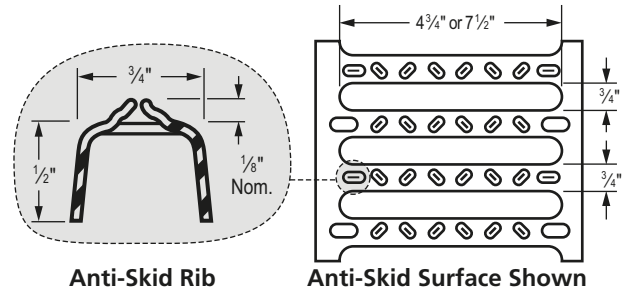
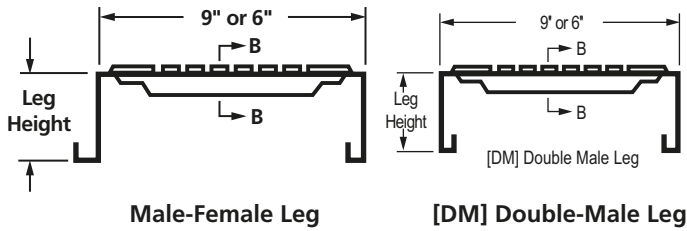
United Interlock Grating Systems are strong, economical, versatile, and easy to specify.

Variety of choices

- 6" and 9" standard-duty width
- 12" light-duty width
- 14 gauge and 18 gauge
- 1 1/2", 2 1/2", 3" (12" width only) and 4" (6" and 9" width only) leg heights
- 20' and 24' stock lengths
- Anti-skid, slotted-smooth punched surfaces and solid unpunched surface
- Double male and male-female leg shapes
- Steel (6", 9" or 12") and aluminum (6" or 9")



UNITED INTERLOCK® GRATING SYSTEMS—6" AND 9"

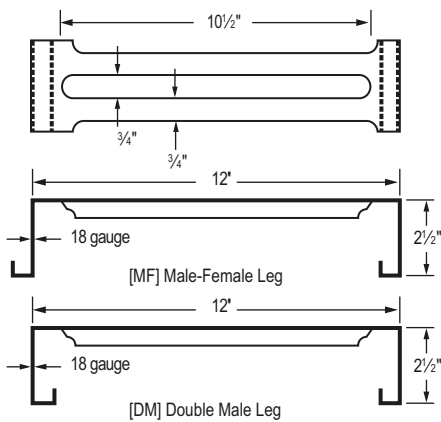


| 6" Wide Planks (14 Ga, 18 Ga, 0.080 Aluminum) | | | | | | | |
|---|-----------|-----------------|-----------------|-----------|------------|-------------|--------------------------|
| Leg Height | Leg Shape | Finish Material | Slotted, Smooth | Anti-Skid | Un-punched | Wt. Lbs./Ft | Wt. Lbs./Ft ² |
| 1 1/2" | DM | PG | G61141 | G61142 | G61143 | 2.7 | 5.4 |
| | MF | 14 Ga. | G62141 | G62142 | G62143 | 2.7 | 5.4 |
| 2 1/2" | DM | PG | G61241 | G61242 | G61243 | 3.4 | 6.8 |
| | MF | 14 Ga. | G62241 | G62242 | G62243 | 3.4 | 6.8 |
| | DM | PG | G61281 | G61282 | G61283 | 2.2 | 4.4 |
| | MF | 18 Ga. | G62281 | G62282 | G62283 | 2.2 | 4.4 |
| | DM | AL | G61221 | G61222 | G61223 | 1.2 | 2.3 |
| | MF | 0.080" | G62221 | G62222 | G62223 | 1.2 | 2.3 |
| 4" | DM | PG | G61341 | G61342 | G61343 | 4.2 | 8.4 |
| | MF | 14 Ga. | G62341 | G62342 | G62343 | 4.2 | 8.4 |

| 9" Wide Planks (14 Ga, 18 Ga, 0.080 Aluminum) | | | | | | | |
|---|-----------|-----------------|-----------------|-----------|------------|-------------|--------------------------|
| Leg Height | Leg Shape | Finish Material | Slotted, Smooth | Anti-Skid | Un-punched | Wt. Lbs./Ft | Wt. Lbs./Ft ² |
| 1 1/2" | DM | PG | G91141 | G91142 | G91143 | 3.5 | 4.7 |
| | MF | 14 Ga. | G92141 | G92142 | G92143 | 3.5 | 4.7 |
| 2 1/2" | DM | PG | G91241 | G91242 | G91243 | 4.0 | 5.3 |
| | MF | 14 Ga. | G92241 | G92242 | G92243 | 4.0 | 5.3 |
| | DM | PG | G91281 | G91282 | G91283 | 2.7 | 3.6 |
| | MF | 18 Ga. | G92281 | G92282 | G92283 | 2.7 | 3.6 |
| | DM | AL | G91221 | G91222 | G91223 | 1.5 | 2.0 |
| | MF | 0.080" | G92221 | G92222 | G92223 | 1.5 | 2.0 |
| 4" | DM | PG | G91341 | G91342 | G91343 | 4.8 | 6.4 |
| | MF | 14 Ga. | G92341 | G92342 | G92343 | 4.8 | 6.4 |

Note: Standard grating lengths are 20' or 24'; DM-Double Male, MF-Male-Female
Unpunched smooth surface grating is also available for special applications. Contact Unistrut for more information.

UNITED INTERLOCK® GRATING SYSTEMS—12"



| 12" Wide Planks, 18 Gauge | | | | |
|---------------------------|-----------|-----------------|-----------------|--------------------|
| Leg Height | Leg Shape | Finish Material | Slotted, Smooth | Anti-Skid |
| 2 1/2" | DM | PG 18 Gauge | G 11281 | G 11282 |
| 3" | DM | PG 18 Gauge | G 11583 | Contact Factory |

For Light Traffic Applications

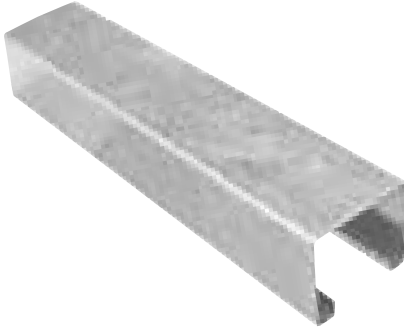
Ideal for mezzanines and other large-area applications, extra-wide 12" interlocking plank grating is designed to simplify installation and reduce the cost of mezzanines, flooring, decking, staging platforms, Roofwalks® and similar applications. With a 43% open area, it allows water, light and air to pass through.

With its extra width, Unistrut 12" wide plank grating covers more area with fewer planks, lowering installation costs. Its high strength-to-weight ratio—18 gauge, 2 1/2" and 3" leg height—makes it ideal for covering large, light-traffic areas. Its snap-together friction fit make it easy to install, with no welding or bolting required.

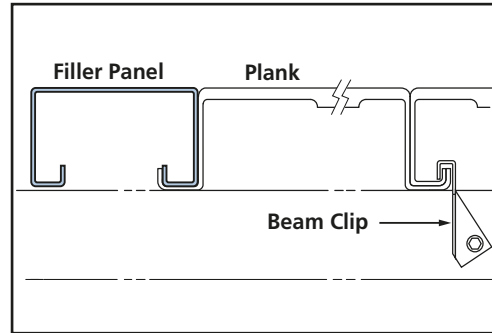
Made of pre-galvanized steel, it's maintenance-free and long lasting. Specifiers can choose a smooth or anti-skid surface to meet a wide variety of application needs.



FILLER PANEL

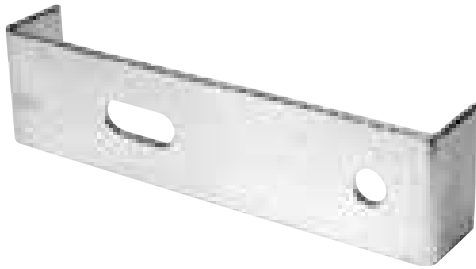


| Part No.* | Description |
|-----------|-----------------------------|
| G31183 PG | 3" Wide x 1 1/2" Leg Height |
| G31283 PG | 3" Wide x 2 1/2" Leg Height |
| G31383 PG | 3" Wide x 4" Leg Height |



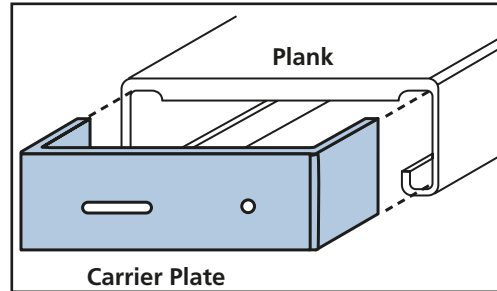
Provided in standard lengths of 10' and 12'.

CARRIER PLATE

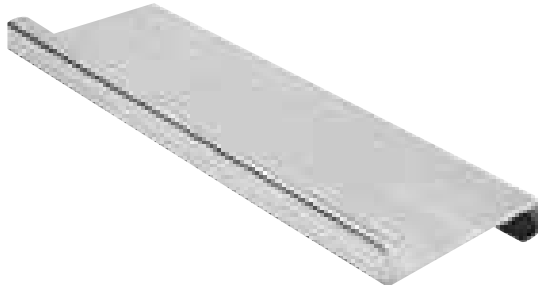


| Part No.* | Description |
|-----------|---|
| G603 PG | 10 ga.- for 9" wide heavy duty stair treads (1/16" hole and 1/2" x 9/16" slot) |
| G618 PG | 10 ga. for 10 1/2" wide stair treads (1/16" hole and 1/2" x 9/16" slot) |
| G642 PG | 10 ga. for 11" wide stair treads (1/16" hole and 1/2" x 9/16" slot) |

Provides easy attachment of stair treads to support structures and stringers.

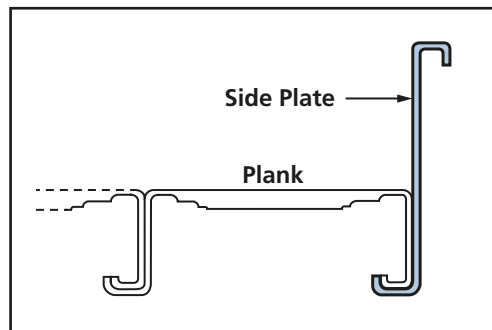


HEEL/TOE SIDE PLATES – 6 1/2" AND 8" HEIGHTS



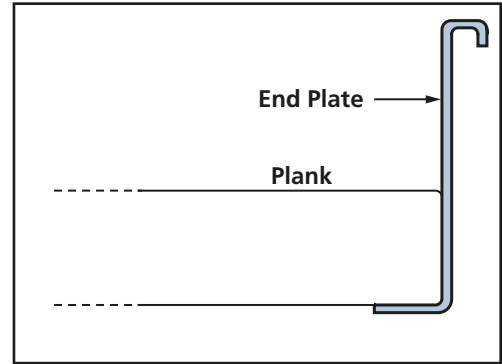
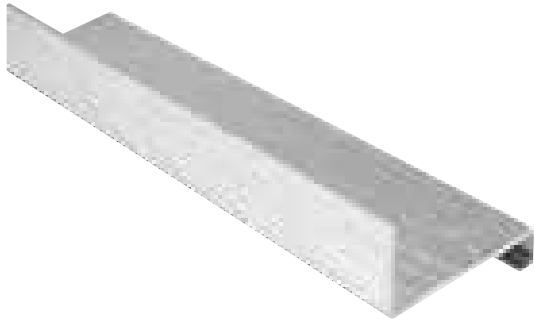
| Part No.* | Description |
|-----------|---------------------------------|
| G631 PG* | 14 ga. x 6 1/2" high x 24' long |
| G621 PG | 14 ga. x 8" high x 12' long |

Forms a curb along grating length that defines a structure's side edge, and helps contain loose objects.



*Part numbers shown are for galvanized. Most accessories are also available in aluminum.

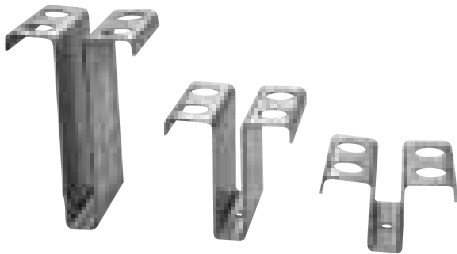
HEEL/TOE END PLATES – 6½" AND 8" HEIGHTS



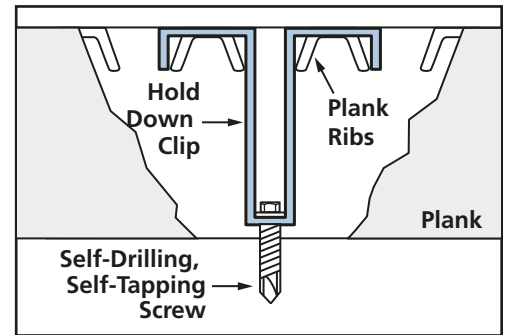
| Part No.* | Description |
|-----------|------------------------------|
| G622 PG | 14 ga. x 6½" high x 12' long |
| G623 PG | 14 ga. x 8" high x 12' long |

Forms a curb along grating ends that defines a structure's edge, and helps contain loose objects.

HOLD DOWN CLIP

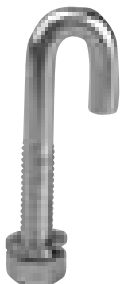


| Part No. | Description |
|----------|----------------|
| G639 PG | 1½" leg height |
| G607 PG* | 2½" leg height |
| G620 PG | 4" leg height |



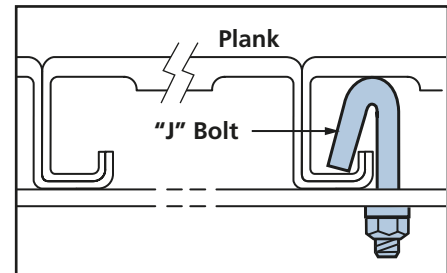
A 16 gauge attachment for fastening grating to support structure below. Attaches through top side of grating.

"J" BOLT/NUT LOCK WASHER



| Part No.* | Description |
|-----------|-------------|
| G600 EG | 5/16" x 2½" |

Attachment for fastening panels to supporting members from underside of grating.



*Part numbers shown are for galvanized. Most accessories are also available in aluminum.



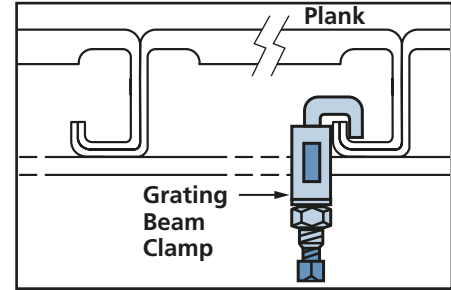
GRATING BEAM CLAMP

1 1/4" System



| Part No.* | Description |
|-----------|-------------|
| G640 EG | Beam clamp |

Attaches grating to structural I-beams. Requires no welding or drilling.



1 3/16" System

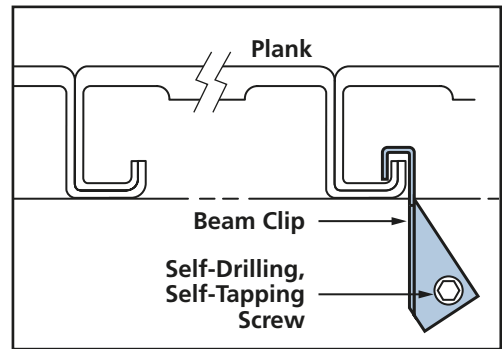
LIGHT GAUGE BEAM CLIP

Fiberglass System



| Part No.* | Description |
|-----------|-----------------------|
| G124 EG | Light Gauge Beam Clip |

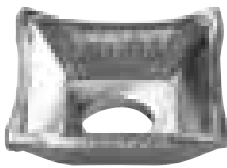
Quickly attaches grating to rack or shelving beams. Requires self-drilling, self-tapping screw—GHTS 012075 EG (not included).



Special Metals

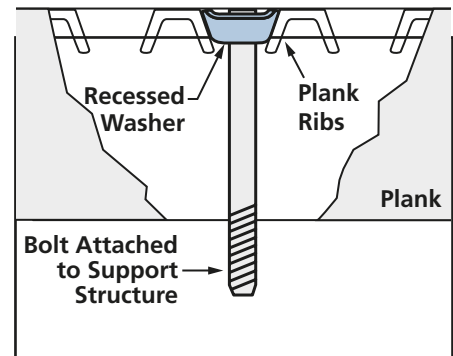
RECESSED WASHER

PrimeAngle



| Part No.* | Description |
|-----------|--|
| G714 EG | 1 1/8" x 1 1/8" 12 gauge square washer |

Holds down grating from above. Eliminates trip points.



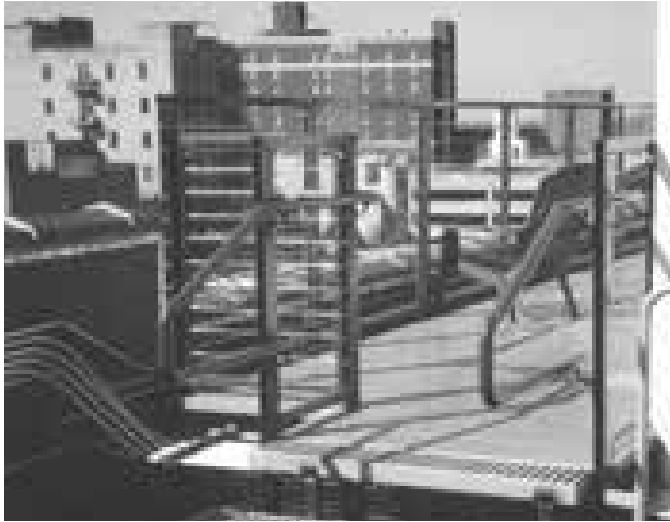
Metal Grating

Roofwalk

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*Part numbers shown are for galvanized. Most accessories are also available in aluminum.

Anyone who has slipped on a stairway can appreciate the safety of the anti-skid stair treads. Those who have tried to clean solid-surface stairs can appreciate our maintenance-free slotted design, which is both rust-resistant and self-cleaning. United's stair treads make it easy for you to meet OSHA regulations. Factors to consider when selecting stair treads include loads, impact, frequency of



use, and future use. Our 10½" and 11" tread features a checker-plate nosing that strengthens the tread and increases the width of the basic 9" tread.

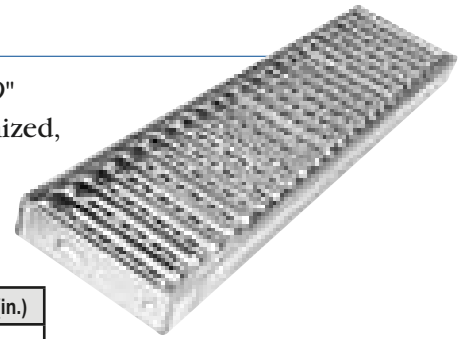
The failure loading data shown below indicates ultimate failure in pounds at various spans. A 3½" diameter load was applied to the outer edge of a 9" wide stair tread at the center of the span. 6" wide stair treads are also available.



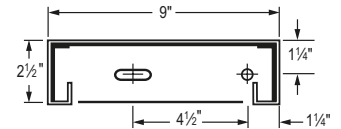
The stair treads can also be used with Unistrut Metal Framing as shown here to create a stair with guide rail

9" Stair Tread

14 gauge x 2½" x 9"
Completely galvanized,
welded 10 gauge
end plates

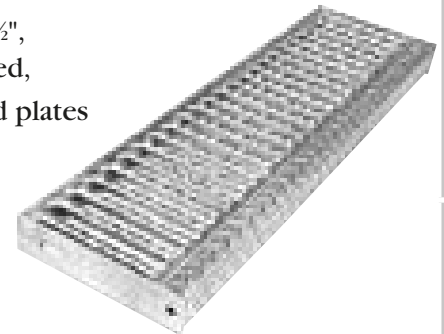


| Part No.* | Length (in.) |
|-------------|--------------|
| G 900-24 PG | 24 |
| G 900-36 PG | 36 |
| G 900-48 PG | 48 |

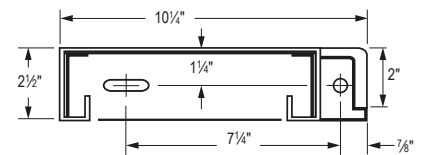


10½" Stair Tread

14 gauge x 2½" x 10½",
Completely galvanized,
welded 10 gauge end plates

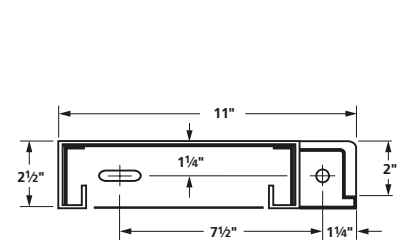


| Part No.* | Len. (in.) |
|-------------|------------|
| G 901-24 PG | 24 |
| G 901-36 PG | 36 |
| G 901-48 PG | 48 |



11" Stair Treads

14 gauge x 2½" x 11" Completely galvanized, welded
10-gauge end plates



| Part No.* | Len. (in.) |
|-------------|------------|
| G 904-24 PG | 24 |
| G 904-36 PG | 36 |
| G 904-48 PG | 48 |

| Allowable Loads: Interlock Grating Stair Treads—Galvanized Steel—3 Widths | | | |
|---|----------------------------------|-------|-------|
| Width | Distance Between Supports (feet) | | |
| | 2 | 3 | 4 |
| 9" | 880 | 760 | 640 |
| 10½" | 1,730 | 1,360 | 1,020 |
| 11" | 1,730 | 1,360 | 1,020 |

Note: Values shown provide a Safety Factor of 2.5

Design Considerations

Designers must consider both uniform and concentrated loads. Design considerations are most critical where loads are concentrated on a small area. As the area of the application gets larger, the reactions approach those of uniform loads.

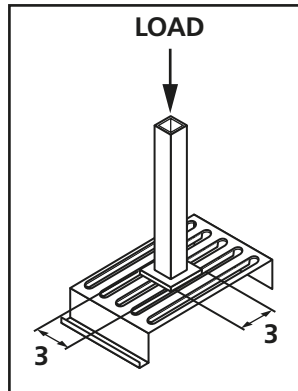
Point (Concentrated) Loads

Point loads should be distributed over a minimum of two transverse ribs, regardless of what size or gauge plank grating is utilized.

Good design practice for point loading plank grating employs a “foot” plate at the load point with a minimum dimension of 3" x 3". This plate will assure that the point load has been distributed over the two transverse-rib minimum.

Maximum point load per rib on 12" x 18 ga. steel plank grating is 185 lbs.

As a result, through the use of the required 3" x 3" “foot” plate, a maximum design load for the minimum-dimension foot plate is 370 lbs. Higher loads can be supported by the transverse ribs. However, larger “foot” plates will then be required to distribute the higher loads over additional ribs.



Testing

Unistrut is dedicated to the research, development and testing of all our manufactured products. The United Interlock Grating System has been tested in accordance with section 6 of the American Iron and Steel Institute’s (AIS) Specifications for the Design of Cold Formed Steel Structural Members.

Tests for allowable loads were performed on product randomly selected from stock. These tests were run on simple spans with no end restrictions, over a 2" end bearing. Concentrated loads were applied across the plank with a 3" bearing, while uniform loads were applied by stacking narrow strips of sheet steel uniformly over the plank surface. Concentrated load tests for galvanized steel grating were run on all strength combinations for spans of 2', 3', 4', 5', 6', 7', 8', 10', 12', 14', 16' and 18'. Uniform load tests for galvanized steel were run on spans of 2', 3', 4', 6', 8' and 10'.

Concentrated load results are the same for 6" and 9" wide planks.

| 6" x 14 Gauge | Leg Height | Codes | Distance Between Supports (Feet) | | | | | | | | | | | | | | | |
|---------------|------------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|----|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 8 | 9 | 10 | 12 | 14 |
| | | | 1½" | UL | 1,232 | 788 | 548 | 402 | 293 | 204 | 150 | 113 | 86 | 68 | 54 | – | – | – |
| UD | 0.05 | 0.08 | | 0.12 | 0.16 | 0.20 | 0.22 | 0.25 | 0.27 | 0.30 | 0.32 | 0.35 | – | – | – | – | – | |
| CL | 616 | 493 | | 411 | 352 | 308 | 274 | 234 | 193 | 162 | 138 | 119 | – | – | – | – | – | |
| CD | 0.04 | 0.06 | | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.27 | 0.30 | 0.32 | 0.35 | – | – | – | – | – | |
| 2½" | UL | 4,886 | 3,296 | 2,150 | 1,601 | 1,257 | 924 | 734 | 597 | 501 | 431 | 369 | 263 | 204 | 150 | 84 | 47 | |
| | UD | 0.15 | 0.17 | 0.18 | 0.22 | 0.26 | 0.36 | 0.41 | 0.45 | 0.47 | 0.52 | 0.61 | 0.81 | 0.89 | 1.13 | 1.33 | 1.42 | |
| | CL | 2,443 | 2,060 | 1,612 | 1,400 | 1,257 | 1,040 | 917 | 820 | 752 | 700 | 647 | 525 | 460 | 374 | 250 | 165 | |
| | CD | 0.17 | 0.17 | 0.17 | 0.20 | 0.22 | 0.25 | 0.29 | 0.34 | 0.40 | 0.46 | 0.55 | 0.66 | 0.79 | 0.90 | 1.07 | 1.18 | |
| 4" | UL | 5,261 | 4,016 | 3,147 | 2,321 | 1,755 | 1,520 | 1,307 | 1,019 | 858 | 738 | 648 | 548 | 420 | 342 | 215 | 165 | |
| | UD | 0.08 | 0.10 | 0.11 | 0.13 | 0.16 | 0.16 | 0.17 | 0.23 | 0.27 | 0.33 | 0.40 | 0.52 | 0.65 | 0.82 | 1.07 | 1.18 | |
| | CL | 2,630 | 2,510 | 2,360 | 2,080 | 1,755 | 1,710 | 1,633 | 1,400 | 1,288 | 1,200 | 1,134 | 1,094 | 980 | 854 | 643 | 577 | |
| | CD | 0.13 | 0.14 | 0.15 | 0.17 | 0.18 | 0.19 | 0.20 | 0.23 | 0.26 | 0.30 | 0.33 | 0.45 | 0.57 | 0.69 | 0.91 | 1.26 | |

| 6" x 18 Gauge | Leg Height | Codes | Distance Between Supports (Feet) | | | | | | | | | | | | | | | |
|---------------|------------|-------|----------------------------------|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|-----|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 8 | 9 | 10 | 12 | 14 |
| | | | 2½" | UL | 2,472 | 1,664 | 1,220 | 881 | 663 | 516 | 414 | 342 | 284 | 237 | 197 | 164 | 134 | 102 |
| UD | 0.14 | 0.15 | | 0.16 | 0.21 | 0.26 | 0.31 | 0.36 | 0.38 | 0.44 | 0.47 | 0.49 | 0.79 | 0.89 | 1.12 | 1.37 | 1.58 | |
| CL | 1,236 | 1,040 | | 915 | 770 | 663 | 580 | 518 | 470 | 426 | 385 | 344 | 327 | 300 | 255 | 200 | 140 | |
| CD | 0.12 | 0.14 | | 0.16 | 0.18 | 0.21 | 0.24 | 0.28 | 0.29 | 0.30 | 0.37 | 0.46 | 0.61 | 0.74 | 0.91 | 1.20 | 1.50 | |

| 6" Aluminum (0.080) | Height | Codes | Distance Between Supports (Feet) | | | | | | | | | | | | | | | |
|---------------------|--------|-------|----------------------------------|------|-------|-------|-------|------|------|------|------|------|------|------|-----|-----|-----|---|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 9 | 10 | |
| | | | 2½" | UL | 2,676 | 1,590 | 1,065 | 840 | 706 | 600 | 517 | 412 | 313 | 277 | 255 | 210 | 177 | – |
| UD | 0.20 | 0.30 | | 0.35 | 0.40 | 0.47 | 0.55 | 0.63 | 0.78 | 1.01 | 1.09 | 1.20 | 1.4 | 1.66 | – | – | | |
| CL | 1,338 | 925 | | 825 | 755 | 706 | 630 | 575 | 515 | 469 | 435 | 410 | 385 | 355 | – | – | | |
| CD | 0.16 | 0.20 | | 0.25 | 0.31 | 0.36 | 0.45 | 0.54 | 0.67 | 0.81 | 0.90 | 0.99 | 1.12 | 1.27 | – | – | | |

Code Key: UL = Uniform Load (pounds per square foot)
 UD = Deflection under uniform load (Inches)
 CL = Concentrated Load (pounds)
 CD = Deflection under concentrated load (Inches)



1/4" System

13/16" System

Fiberglass System

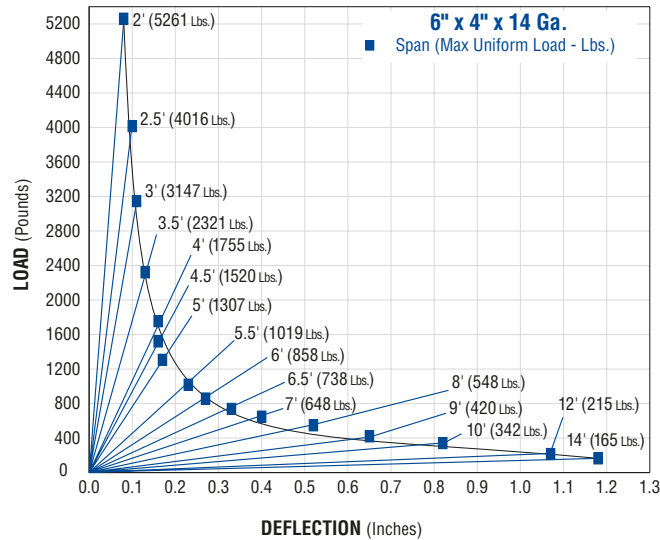
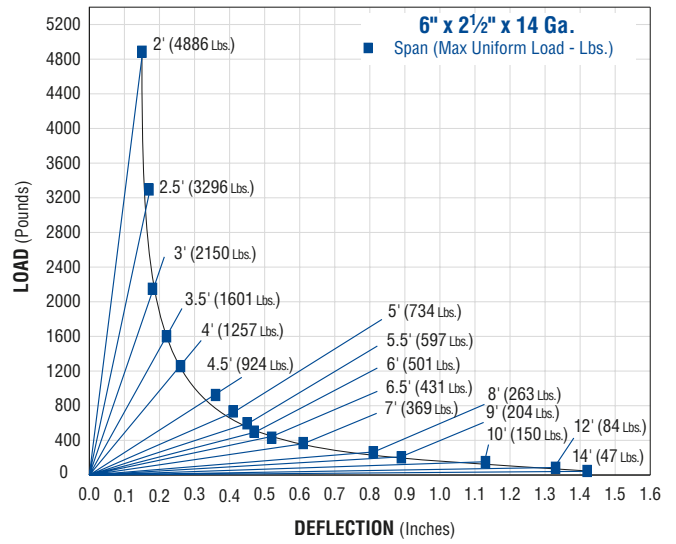
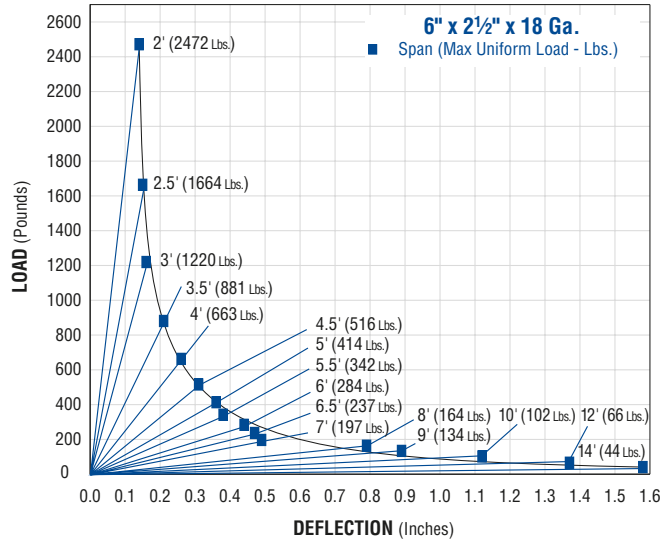
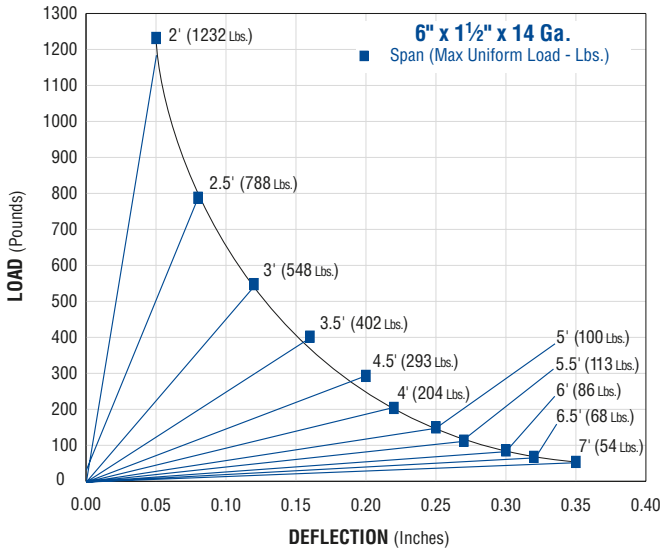
Special Metals

PrimeAngle

Metal Grating

Roofwalk

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| 9" x 14 Gauge | Leg Height | Codes | Distance Between Supports (Feet) | | | | | | | | | | | | | | | |
|---------------|------------|-------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 8 | 9 | 10 | 12 | 14 |
| 1½" | UL | 821 | 525 | 365 | 268 | 195 | 136 | 100 | 75 | 57 | 45 | 36 | – | – | – | – | – | |
| | | UD | 0.05 | 0.08 | 0.12 | 0.16 | 0.2 | 0.22 | 0.25 | 0.27 | 0.3 | 0.32 | 0.35 | – | – | – | – | |
| | | CL | 612 | 488 | 405 | 346 | 286 | 222 | 179 | 145 | 118 | 98 | 82 | – | – | – | – | |
| | | CD | 0.04 | 0.06 | 0.10 | 0.13 | 0.16 | 0.18 | 0.20 | 0.22 | 0.24 | 0.26 | 0.28 | – | – | – | – | |
| 2½" | UL | 3257 | 2197 | 1433 | 1067 | 838 | 616 | 489 | 398 | 334 | 287 | 246 | 175 | 136 | 100 | 56 | 31 | |
| | | UD | 0.15 | 0.17 | 0.18 | 0.22 | 0.26 | 0.36 | 0.41 | 0.45 | 0.47 | 0.52 | 0.61 | 0.81 | 0.89 | 1.13 | 1.33 | 1.42 |
| | | CL | 2439 | 2055 | 1606 | 1393 | 1249 | 1031 | 907 | 810 | 740 | 687 | 632 | 509 | 441 | 355 | 228 | 135 |
| | | CD | 0.12 | 0.14 | 0.14 | 0.18 | 0.21 | 0.29 | 0.33 | 0.36 | 0.38 | 0.42 | 0.49 | 0.65 | 0.71 | 0.90 | 1.06 | 1.14 |
| 4" | UL | 3507 | 2667 | 2098 | 1547 | 1170 | 1013 | 871 | 679 | 572 | 492 | 432 | 365 | 280 | 228 | 143 | 110 | |
| | | UD | 0.08 | 0.1 | 0.11 | 0.13 | 0.16 | 0.16 | 0.17 | 0.23 | 0.27 | 0.33 | 0.4 | 0.52 | 0.65 | 0.82 | 1.07 | 1.18 |
| | | CL | 2625 | 2494 | 2353 | 2022 | 1745 | 1699 | 1621 | 1387 | 1273 | 1184 | 1117 | 1076 | 923 | 831 | 615 | 544 |
| | | CD | 0.06 | 0.08 | 0.09 | 0.10 | 0.13 | 0.13 | 0.14 | 0.18 | 0.22 | 0.26 | 0.32 | 0.42 | 0.52 | 0.66 | 0.86 | 0.94 |

| 9" x 18 Gauge | Leg Height | Codes | Distance Between Supports (Feet) | | | | | | | | | | | | | | | |
|---------------|------------|-------|----------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 8 | 9 | 10 | 12 | 14 |
| 2½" | UL | 1,648 | 1,109 | 813 | 587 | 442 | 344 | 276 | 228 | 189 | 158 | 131 | 109 | 89 | 68 | 44 | 27 | |
| | | UD | 0.14 | 0.15 | 0.16 | 0.21 | 0.26 | 0.31 | 0.36 | 0.38 | 0.44 | 0.47 | 0.49 | 0.79 | 0.89 | 1.12 | 1.37 | 1.58 |
| | | CL | 1,236 | 1,040 | 915 | 770 | 663 | 580 | 518 | 470 | 426 | 385 | 344 | 327 | 300 | 255 | 200 | 140 |
| | | CD | 0.12 | 0.14 | 0.16 | 0.18 | 0.21 | 0.24 | 0.28 | 0.29 | 0.30 | 0.37 | 0.46 | 0.61 | 0.74 | 0.91 | 1.2 | 1.5 |

| 9" Aluminum (0.080) | Leg Height | Codes | Distance Between Supports (Feet) | | | | | | | | | | | | |
|---------------------|------------|-------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 |
| 2½" | UL | 1784 | 1060 | 710 | 560 | 471 | 400 | 345 | 275 | 209 | 185 | 170 | 140 | 118 | |
| | | UD | 0.20 | 0.30 | 0.35 | 0.40 | 0.47 | 0.55 | 0.63 | 0.78 | 1.01 | 1.09 | 1.20 | 1.40 | 1.66 |
| | | CL | 1337 | 992 | 797 | 732 | 704 | 672 | 643 | 563 | 466 | 446 | 441 | 388 | 348 |
| | | CD | 0.16 | 0.24 | 0.28 | 0.32 | 0.38 | 0.44 | 0.50 | 0.62 | 0.81 | 0.87 | 0.96 | 1.12 | 1.33 |

Code Key: UL = Uniform Load (pounds per square foot)
 UD = Deflection under uniform load (Inches)
 CL = Concentrated Load (pounds)
 CD = Deflection under concentrated load (Inches)

1¼" System

13/16" System

Fiberglass System

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1/4" System

13/16" System

Fiberglass System

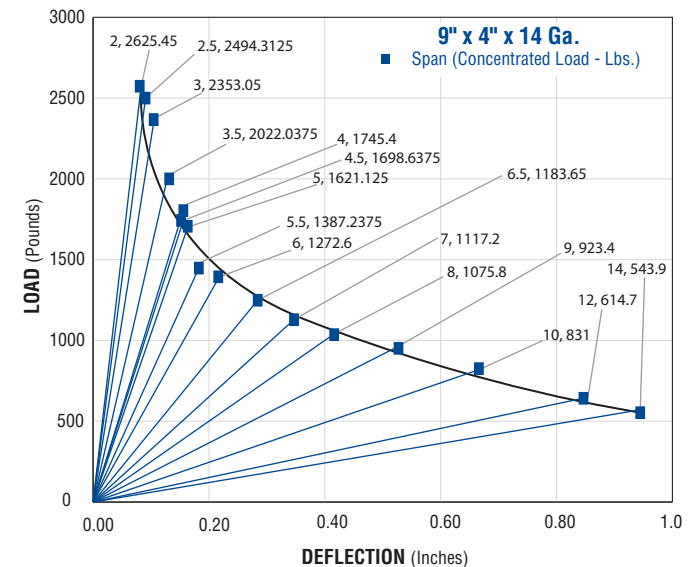
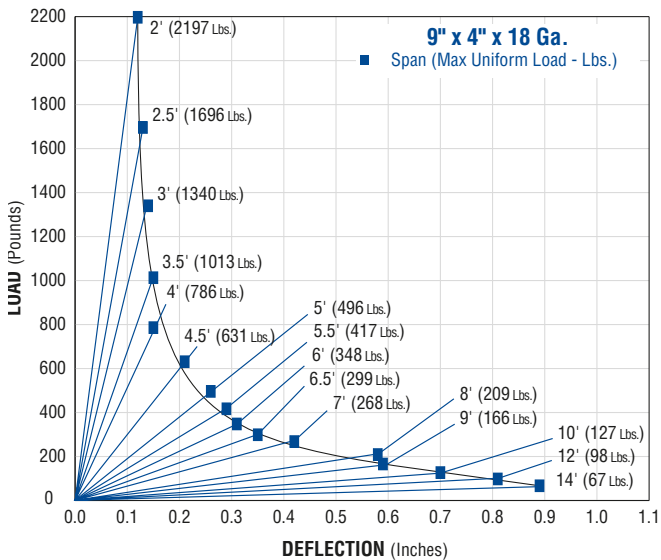
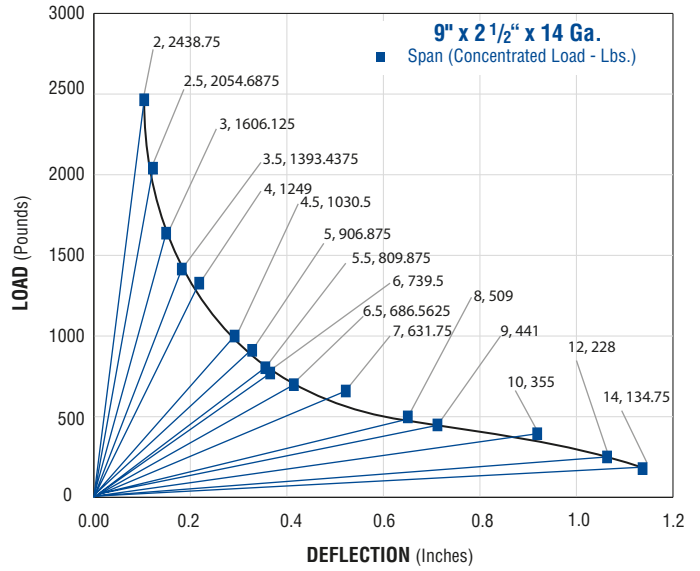
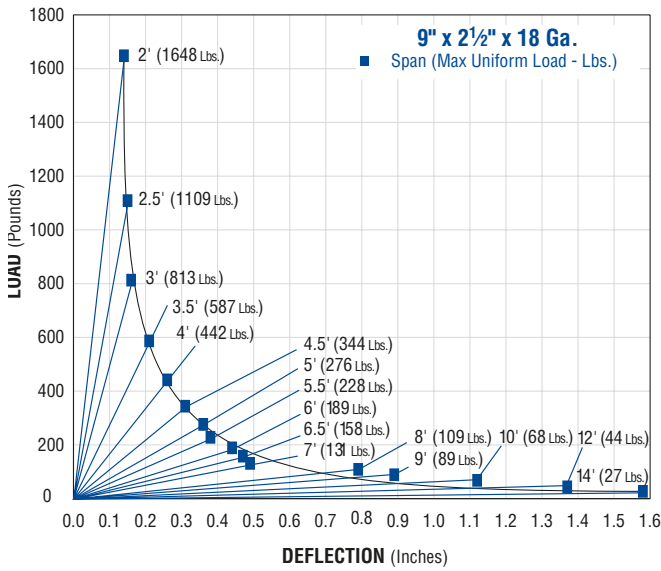
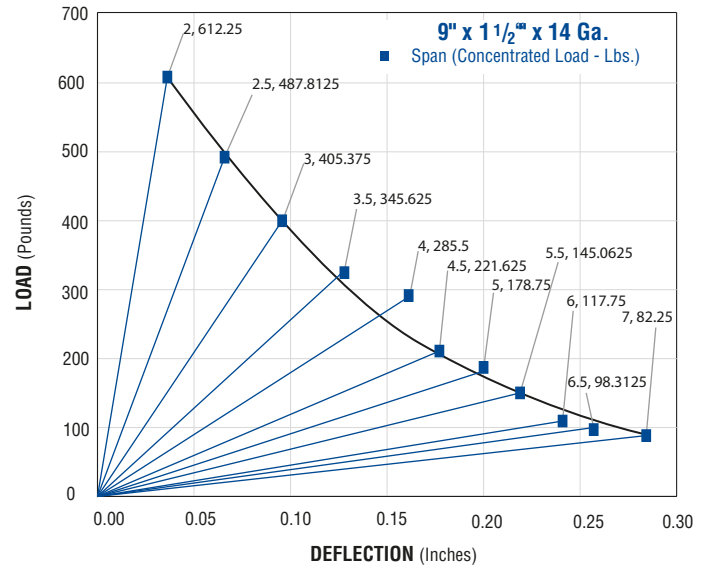
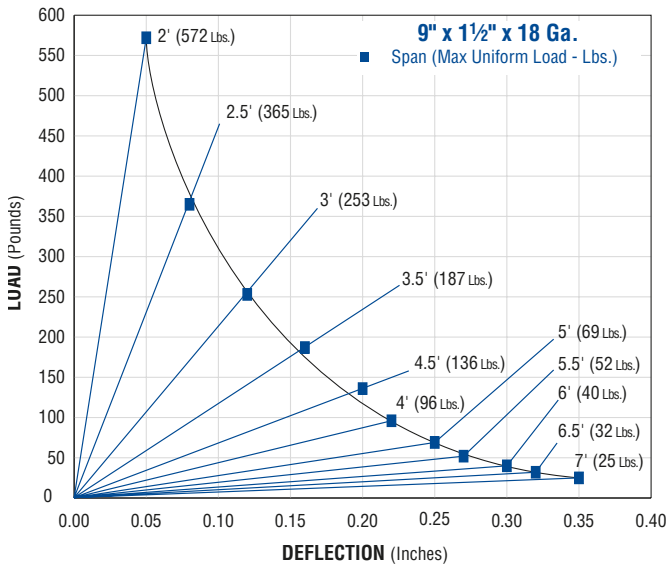
Special Metals

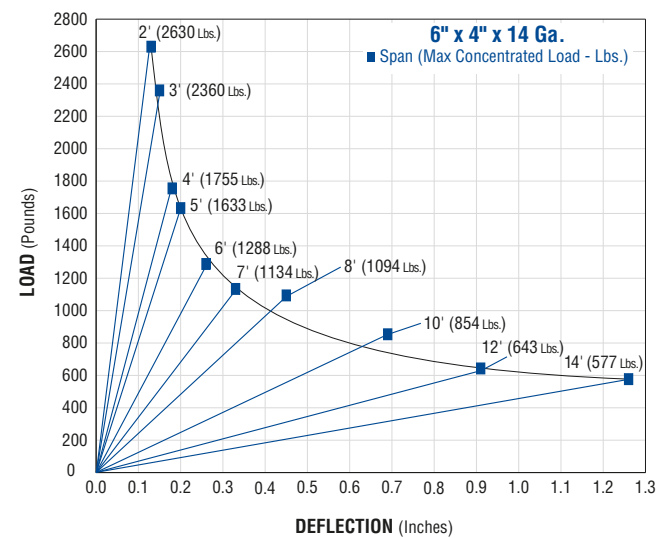
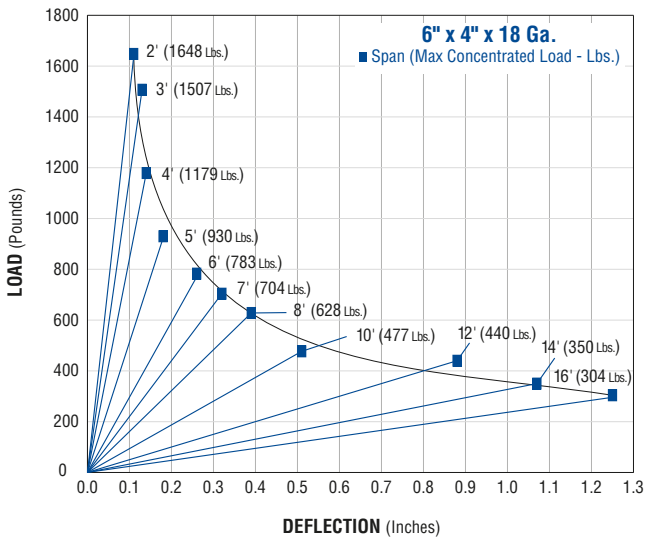
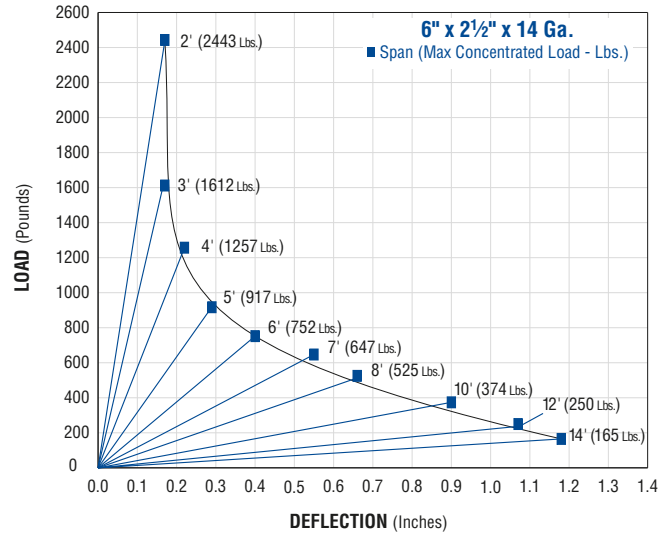
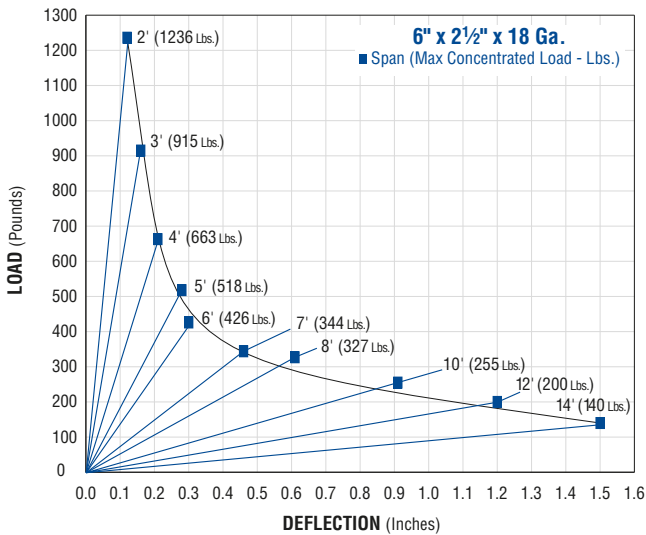
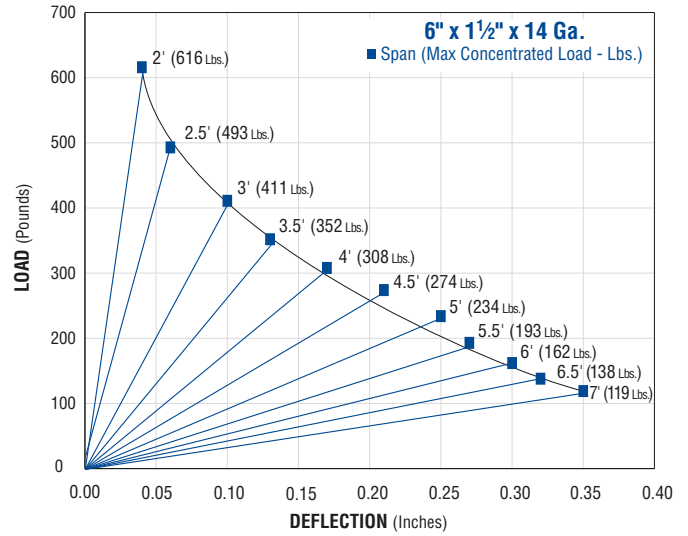
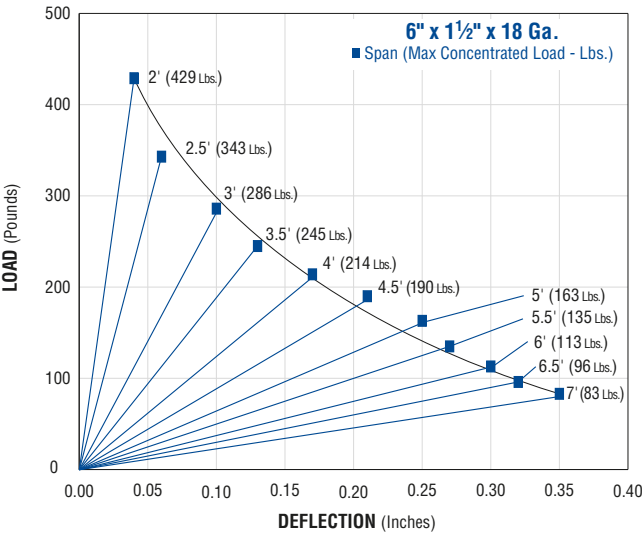
PrimeAngle

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1/4" System

13/16" System

Fiberglass System

Special Metals

PrimeAngle

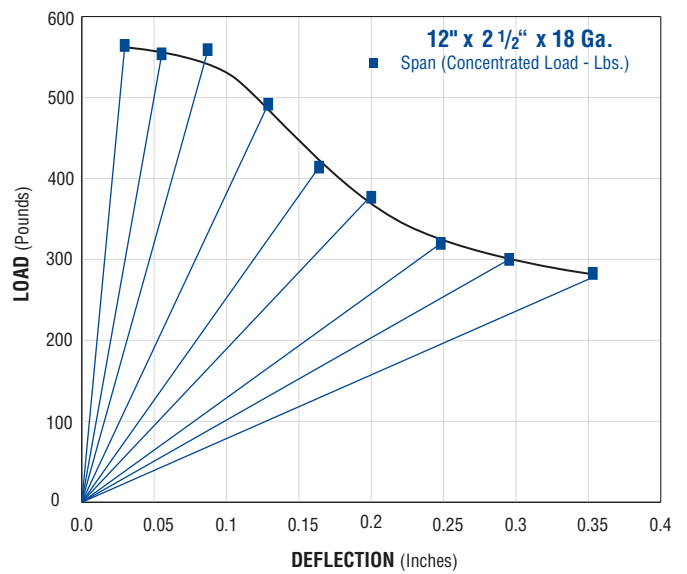
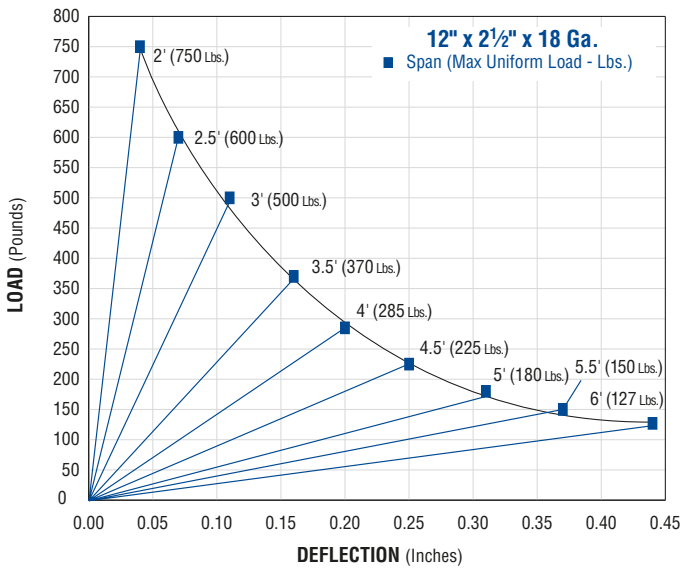
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| 12" x 18 Gauge | Leg Height | Codes | Distance Between Supports (Feet) | | | | | | | | | | | | |
|----------------|------------|-------|----------------------------------|------|------|------|------|------|------|------|------|-----|---|-----|---|
| | | | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 |
| 2 1/2" | UL | | 750 | 600 | 500 | 370 | 285 | 225 | 180 | 150 | 127 | – | – | – | – |
| | UD | | 0.04 | 0.07 | 0.11 | 0.16 | 0.20 | 0.25 | 0.31 | 0.37 | 0.44 | – | – | – | – |
| | CL | | 559 | 559 | 558 | 480 | 421 | 372 | 330 | 301 | 276 | – | – | – | – |
| | CD | | 0.03 | 0.06 | 0.09 | 0.13 | 0.16 | 0.20 | 0.25 | 0.30 | 0.35 | – | – | – | – |

Code Key: UL = Uniform Load (pounds per square foot)
 UD = Deflection under uniform load (Inches)
 CL = Concentrated Load (pounds)
 CD = Deflection under concentrated load (Inches)



1. GENERAL**1.1 Scope of Work**

- A. Provide all material and labor required for the interlocking plank grating as indicated in the contract documents.

1.2 Related Work Specified Elsewhere

- A. Structural Steel
 B. Cold Formed Metal Framing
 C. Metal Fabrications

1.3 Quality Assurance

- A. Material shall be provided by a qualified contractor with at least five (5) years experience in the manufacture of interlock grating. Contractor shall demonstrate experience in projects of similar scope.
- B. Anti-Skid surfaced grating shall conform to Federal Specification RR-G-1602A.
- C. The Grating shall be designed to withstand the following load criteria:
1. Uniform Live Load _____ psf.
 2. Concentrated Load _____ lbs.
- D. Contractor shall certify that grating has been tested, indicating maximum allowable uniform and concentrated loads, with a factor of safety of 2, per AISC, Section 6.
- E. If product is required in nuclear and/or safety related application, it shall be supplied under the requirements of nuclear specification 10CFR 50 appendix B.

1.4 Submittals

- A. Contractor shall submit shop drawings showing grating layout, support structure and detailed sections depicting assembly.

2. PRODUCTS**2.1 Acceptable Manufacturer**

- A. In order to define the requirements for quality, function, sizes, gauges, surfaces, etc., these material specifications designate manufacturers, brands and other pertinent data that describe the minimum product standards of the products that conform to the project's requirements.
- B. Products of other manufacturers may also be acceptable, provided that such products are equivalent to, or better than, those specified and, further, that use of such substitute products will not involve additional cost to owner due to possible required changes to accommodate them.

- C. The alternate (substitute) product must be a proven equivalent to that specified by submitting technical data, test reports, samples, typical details, comparative layout and engineering calculations for evaluation.
- D. The acceptance of an alternate (substitute) product is at the discretion of the owner or his agents, whose decision shall be final.

2.2 Products

- A. Grating shall be United Interlock Plank Grating System, as manufactured by Unistrut, 16100 S. Lathrop Ave., Harvey, IL 60426 (U.S.A.), Phone (800) 468-9510.
- B. Materials shall conform to ASTM A653, Grade A with a Class G-90 coating.
- C. Material shall be _____ gauge. With a leg height of _____ inches.
- D. The surface pattern shall provide a minimum of 35% but not more than 42% open area. Openings shall be a minimum of 4" long and a maximum of 3/4" width. The surface shall be _____.
1. Anti-Skid surface shall provide 360° positive traction and be made of tapered self-cleaning teeth, approximately 1/8" high.
 2. Anti-Skid surface teeth shall have slots approximately 1/16" wide by 3/8" long, uniformly spaced with a minimum of 60 and a maximum of 80 teeth per square foot.

3. INSTALLATION**3.1 Site Examination**

- A. Contractor shall examine the support structure, work area and conditions for the grating installation. If the supports, area or conditions are not satisfactory, installation shall not commence until satisfactory conditions are present.

3.2 Erection

- A. Grating shall be installed as detailed on the approved shop drawings.
- B. Grating shall be installed in single, unspliced sections for all requirements to 20' lengths.
- C. Grating shall interlock, with male-female legs providing a lock prohibiting horizontal movement. The outside leg of all members shall be male.
- D. Connections of grating to support elements shall be by bolting, clamping, screwing, welding or use of a manufacturers approved hold-down clip.

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**PROTECT ROOFS FROM
 BIGFOOT WITH ROOFWALKS®
 ROOFTOP WALKWAYS**

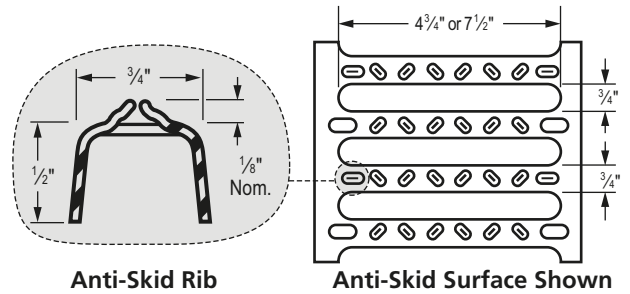
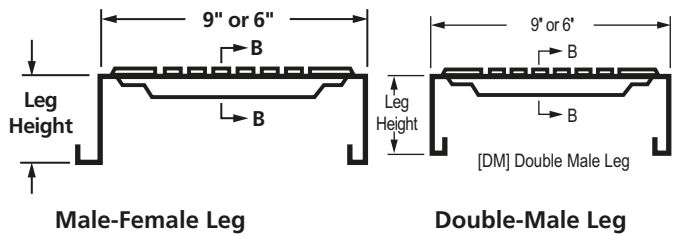
Roofwalk walkways are your low-cost solution to damage caused by rooftop foot traffic. On membrane, built-up, foam and coated roofs, they protect against puncture, abrasion and wear. On standing-seam metal roofs, workers of all sizes – even the Bigfoots of the world – can walk safely on the anti-skid surface without causing seam distortion, “dishing” or harmful stress to roof panels. Steel planks are strong yet light-weight, making installation quick and easy. Thanks to special system hardware, no roof penetration is required for anchoring. Roofwalks are versatile and adapt to any roofing system.

ROOFWALKS® SYSTEMS WILL...

- Provide a safe walkway for rooftop traffic
- Protect the roof from foot traffic
- Resist weather in either galvanized steel or aluminum finish
- Attach to all metal standing-seam roofs (including metric)

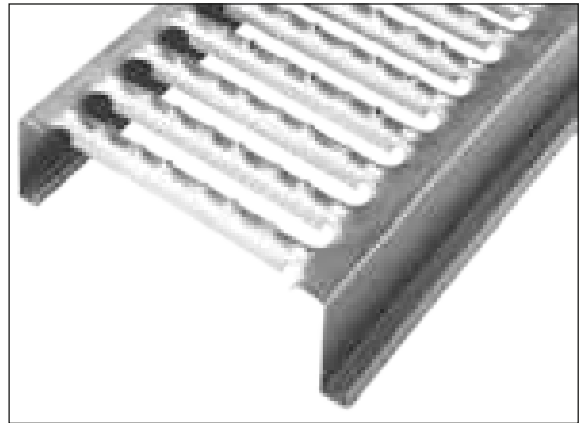
ROOFWALKS® SYSTEMS WILL NOT...

- Penetrate rooftop surface (except on rib roofs)
- Trap water
 ...like rubber pads will
- Curl causing trip hazards
 ...like rubber pads will
- Disappear in snow
 ...like rubber pads will
- Rot or disintegrate
 ...like wood or patio blocks will

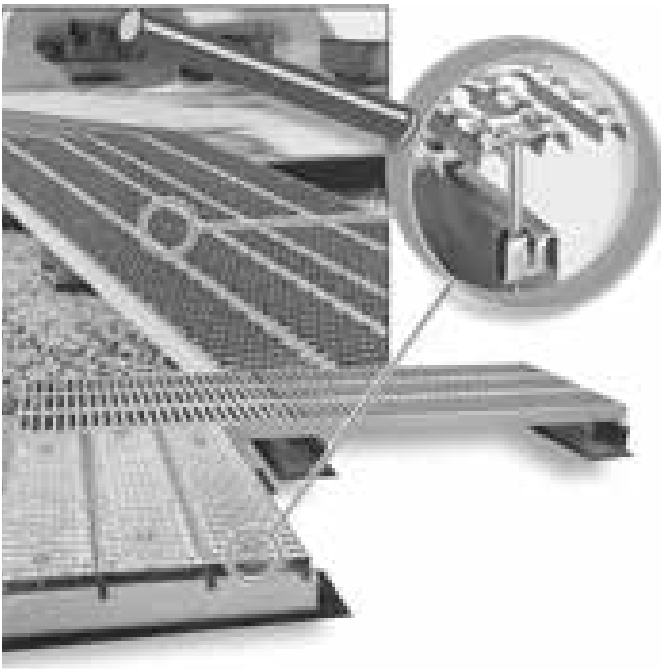


Interlocking Planks 20' or 24' planks in 6", 9" or 12" widths roll formed from 18 gauge galvanized steel (G-90 coating). Planks available with double-male or male-female leg shapes. Anti-Skid surface and 2½" leg height, standard.

| Roofwalk Grating (20' & 24' Stock Lengths) | | | |
|---|-------------|-----------|-----------------|
| Leg Height: 2½"; Finish: PG; Surface: Anti-Skid | | | |
| Part No. | Plank Width | Leg Shape | Weight Lbs./Ft. |
| G 91282 | 9" | DM | 2.7 |
| G 92282 | | MF | 2.7 |
| G 61281 | 6" | DM | 2.3 |
| G 62281 | | MF | 2.3 |
| G 11282 | 12" | DM | 3.2 |
| G 12282 | | MF | 3.2 |



MEMBRANE / COMPOSITE INSTALLATION



Installation on a membrane roof uses the support stands or the Unipier® sleeper support as a mounting platform.

Refer to our website (www.unistrut.com) for detailed installation instructions and a description of the mounting hardware used.

STANDING SEAM INSTALLATION



Installation on a standing seam roof uses a custom support plate specifically designed for each manufacturer's standing seam roof to form a mounting platform.

The mounting hardware also depends on the specific standing seam roof. Refer to our website (www.unistrut.com) for detailed installation instructions and a description of the mounting hardware used.



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| 004T008 thru 098N106, 009N012 thru | | 20P-1200, 20V-1200 | 191 | 625PU | 193 |
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| 1.5 Pipe Support | 158 | 20P-2000, 20V-2000 | 190 | 625PU-FN-000 | 194 |
| 1.5 Spacer | 160 | 20P-2100 SST, 20V-2100 SST | 192 | 750E-999 | 194 |
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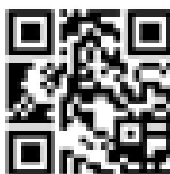
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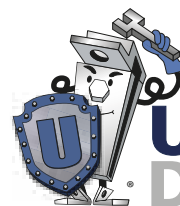
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* Based on average ASTM B117 salt spray test results from an independent, accredited test laboratory.

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