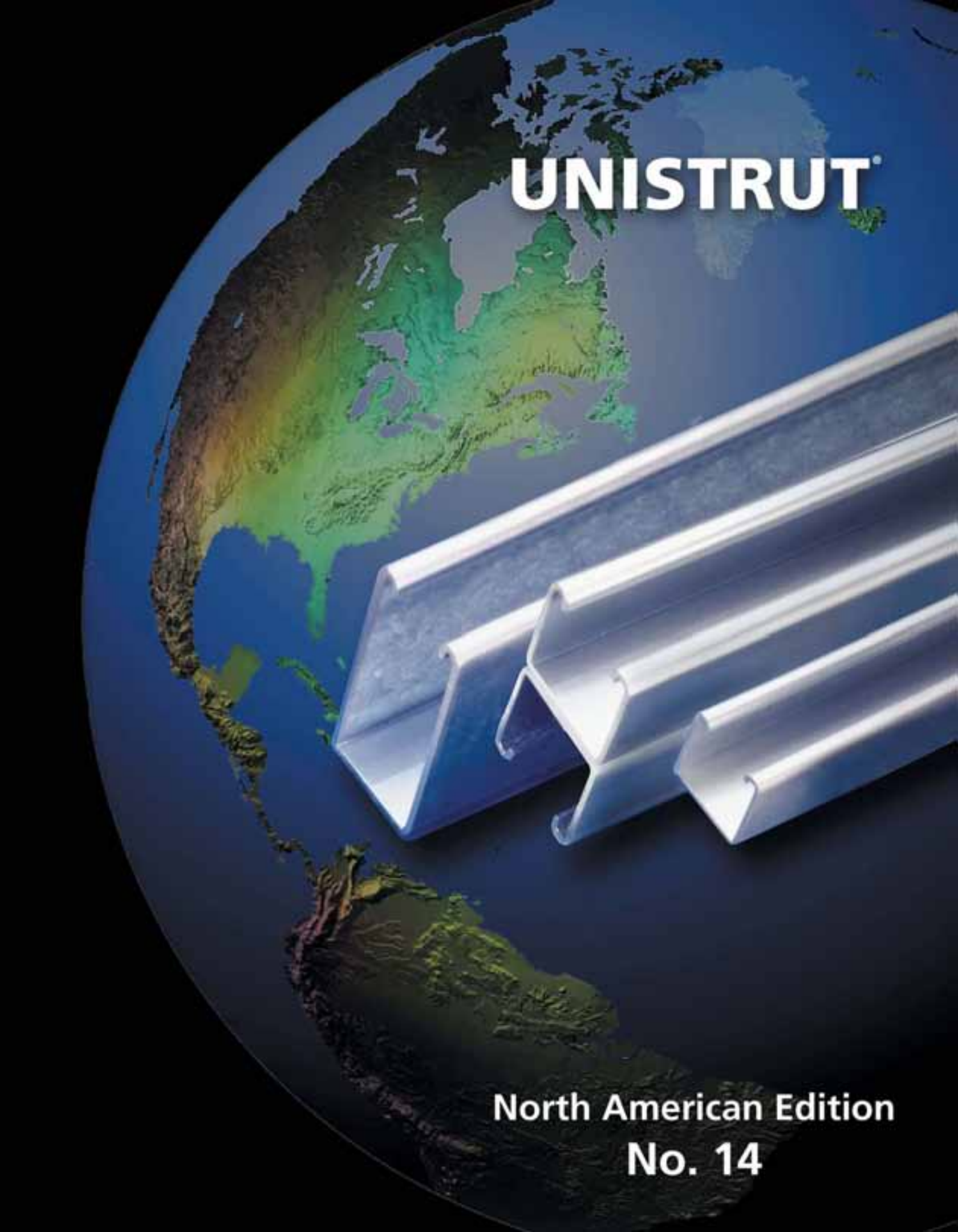
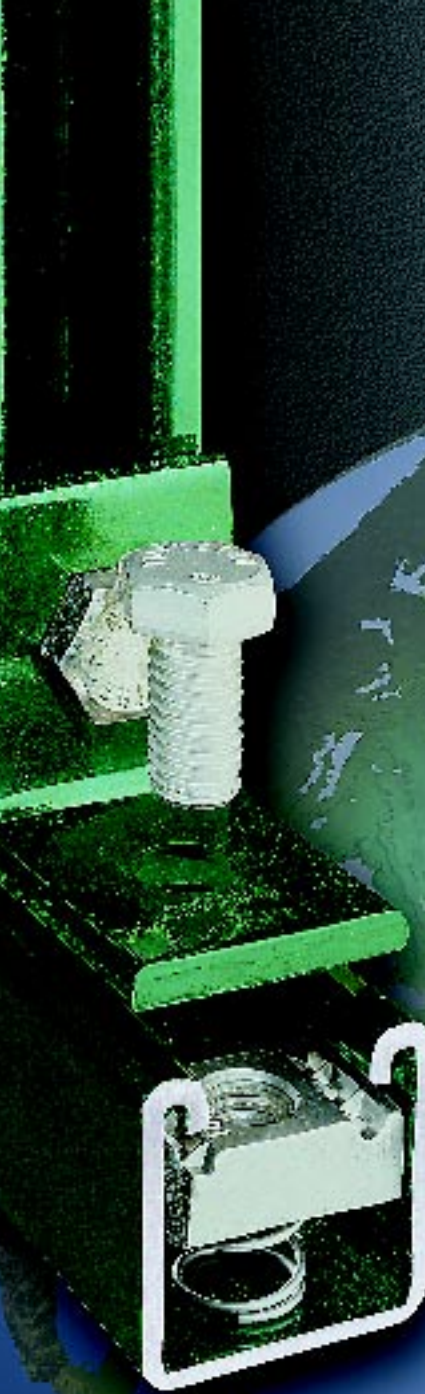


The background of the cover is a stylized, high-contrast map of the world, with landmasses in shades of green and brown and oceans in deep blue. In the foreground, four pieces of silver-colored metal Unistrut channel are arranged diagonally from the bottom left towards the top right. The pieces vary in size and are shown in perspective, highlighting their U-shaped profile and reflective surface.

UNISTRUT®

North American Edition
No. 14



MEET MR. STRUT

Mr. Strut has symbolized Unistrut innovation for over 50 years and he's still coming up with fresh ideas and new ways to help you work easier, faster and smarter! So watch for Mr. Strut. When he's around you're never far from the Unistrut World of Support.





UNISTRUT®

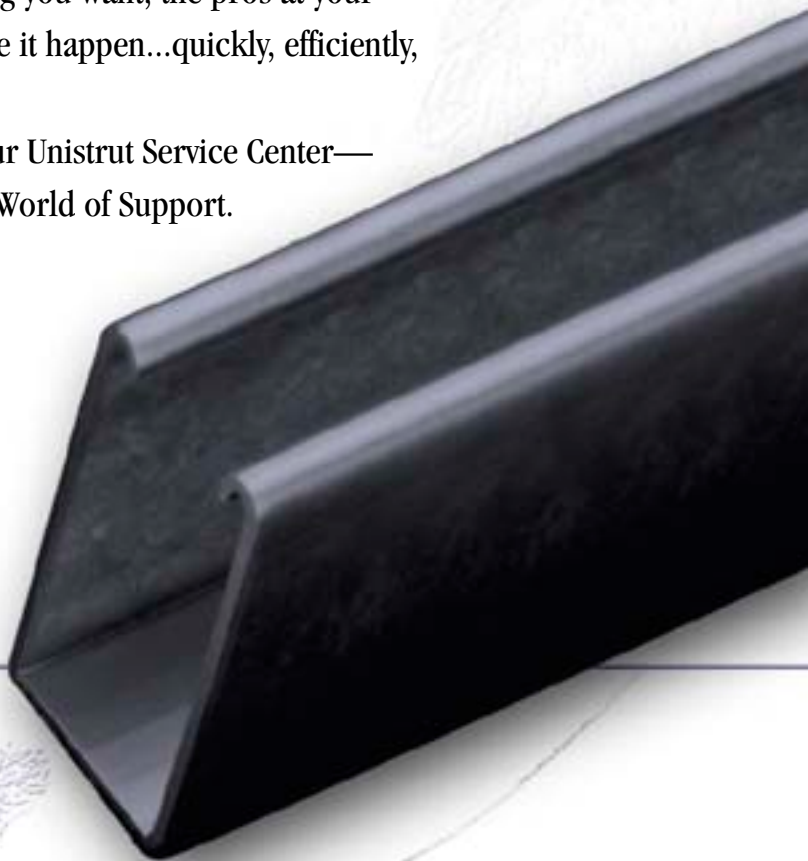
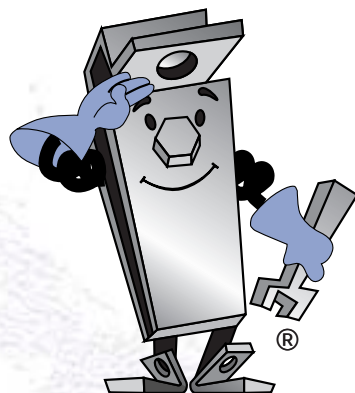
**The Unistrut World of Support
starts with our network of Unistrut
Service Centers across the nation.**

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.





UNISTRUT®

TABLE OF CONTENTS

INTRODUCTION 1-20

Unistrut Metal Framing Systems	4-7
Quality Assurance	8-9
Research and Development	10
Materials and Finishes	11-13
Design Fundamentals	14-15
Conversion Factors	16
Reference Tables and Data	17-18
Guide Specification	19

1⁵/₈" CHANNEL 21-62

Channel Pictorial Index	22-23
Channel Selection Chart	24
Channels & Combinations	25-58
Closure Strips	59
End Caps & Frame Caps	60
Load Reduction Charts	61
Bearing Loads	62

TELESTRUT® SYSTEM 63-74

Telestrut Pictorial Index	64-66
---------------------------------	-------

Channels & Combinations	67-69
Telestrut Connection Methods	70
Wing Shape Fittings	71
Post Bases	72
Cutting Chart	73

NUTS & HARDWARE 75-84

Nuts & Hardware Pictorial Index	76
Channel Nut Loads	77
Channel Nuts	78-80
Hardware	81-84

GENERAL FITTINGS 85-136

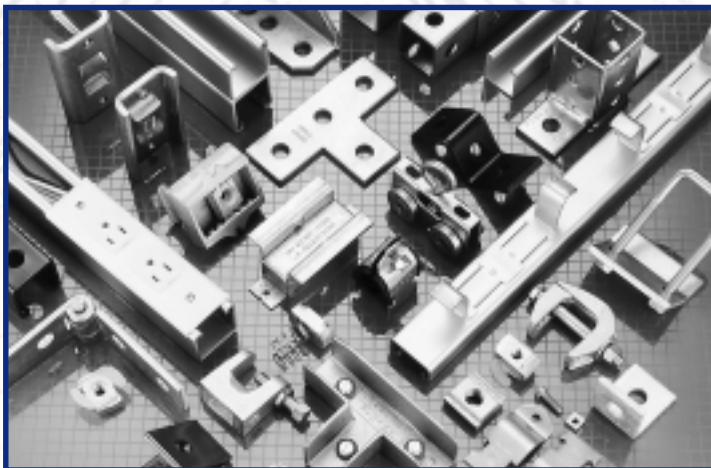
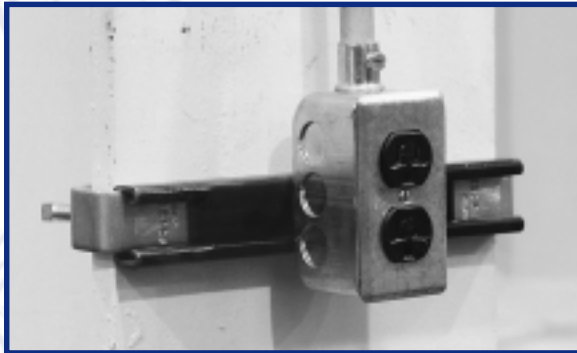
General Fittings Pictorial Index	86-88
Design Load Data	89
Fittings	90-112
Post Bases	112-113
Brackets	114-119
Brace Fittings	120-121
Beam Clamps	122-132
Trolley Assemblies	133-134
Special Application Fittings	135-136

PIPE/CONDUIT SUPPORTS .. 137-160

Pipe & Conduit Pictorial Index	138
Pipe & Conduit Clamps	139-143
Unicushion®	144-145
Pipe & Tubing (Cush-A-Clamps®) Clamps	146-148
Pipe Hangers	149
Pipe Rollers	150-152
Pipe Brackets	153
Pipe & Conduit Reference Data	154-160

ELECTRICAL FITTINGS 161-182

Electrical Fittings Pictorial Index	162
Electrical Fittings	163-166
Porc-A-Clamp™	165
Receptacles	167
Fluorescent Fixture Hangers	168
Electrical Accessories	169-172
Junction Boxes	173
In-Channel Joiners	174
Swivel Hangers	175
Cable Entrance Tubing	176-177
Cable Entrance Fittings	178-179
Electrical Technical Data	180-182



CONCRETE INSERTS 183-192

Concrete Inserts Pictorial Index	184
Installation & Heavy Duty Inserts	185
Standard Duty & Accessories	186-187
Light Duty	188
Spot Inserts	189-190
Components	191
Concrete Inserts Technical Data	192

1 1/4" FRAMING SYSTEM 193-214

1 1/4" Framing System Pictorial Index ...	194-195
Channels	196-203
Nut Selection and Load Data	204
Unistrut Nuts	205
Channel End Caps & Closure Strips	206
Fittings	207-213
Tubing Clips	213
Brackets	214

1 3/16" FRAMING SYSTEM 215-236

1 3/16" Framing System Pictorial Index ...	215-217
Channels	218-222
Channel Nuts, Caps & Closures	223
Fittings	224-235
Special Applications	235
Beam Clamps & Tubing Clips	236

FIBERGLASS SYSTEM 237-260

Fiberglass Pictorial Index	238-239
Fiberglass Channel	240-245
Fiberglass Channel Nuts & Accessories	246
Fiberglass Hardware and Accessories ..	247-249
Fittings	250-254
Fiberglass Pipe Clamps	255-256
Fiberglass Clevis Hangers	257
Fiberglass Beam Clamps, Power-Rack Stanchions	258
Fiberglass Technical Data	259
Fiberglass Sample Specifications	260



SPECIAL METALS 261-268

Special Metals Pictorial Index	262
Stainless Steel	263-264
Stainless Steel Channel Nuts	265
Extruded Aluminum Channels	266-268

PRIMEANGLE™ 269-270

PrimeAngle™ & Accessories	270
---------------------------------	-----

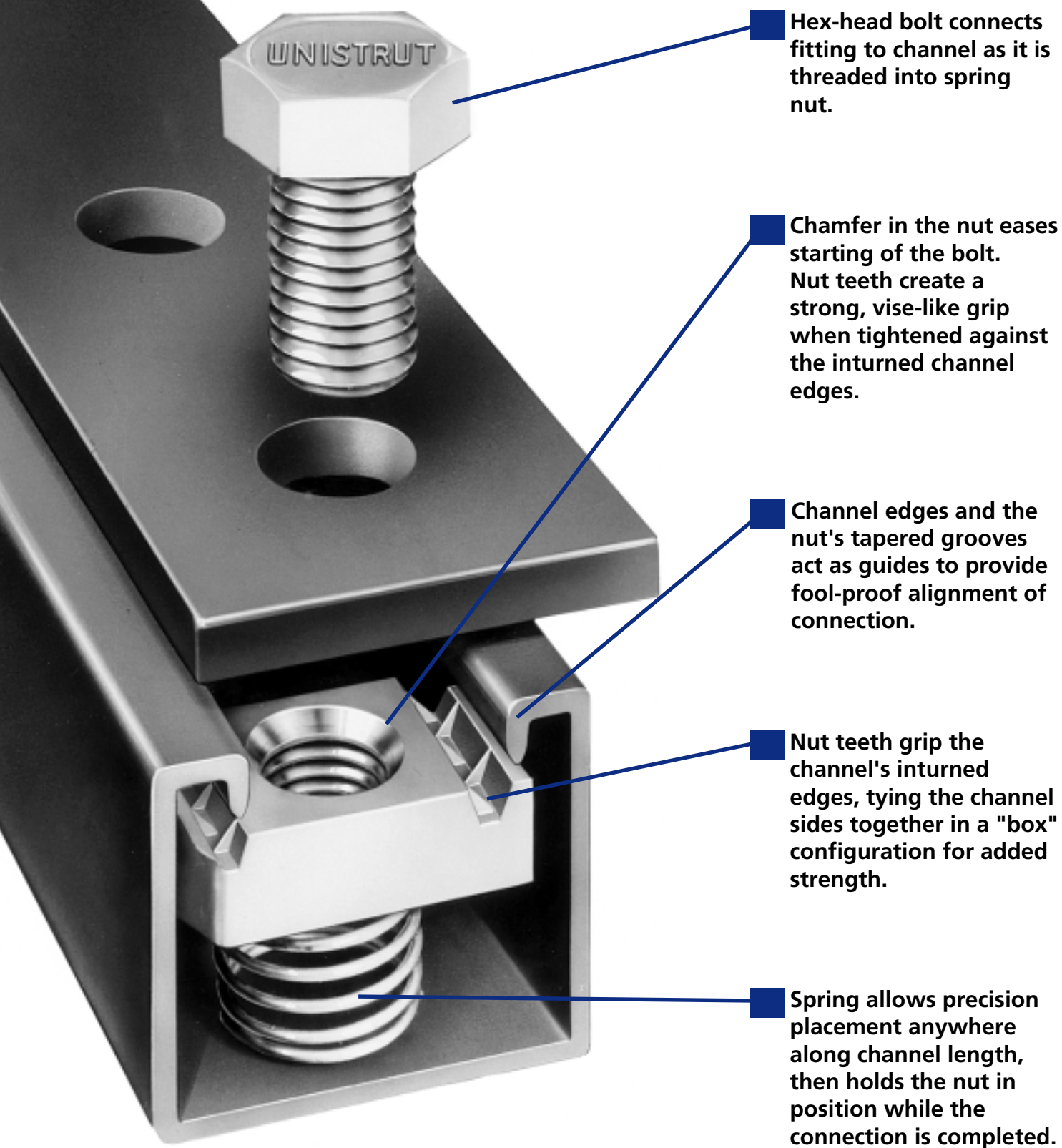
INDEX 271-282

Subject Index	271-282
---------------------	---------





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.

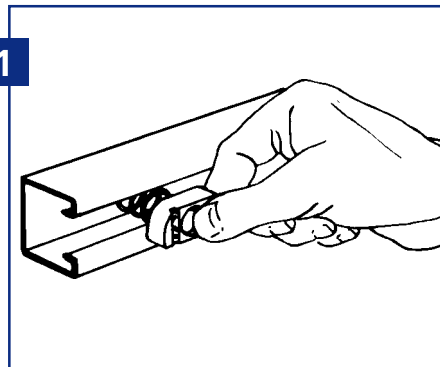
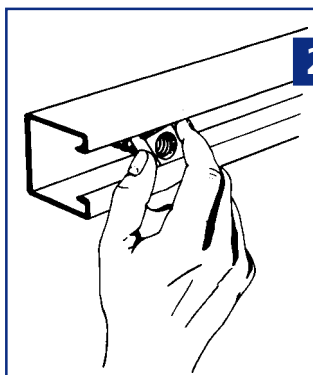
Channel edges and the nut's tapered grooves act as guides to provide fool-proof alignment of connection.

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.

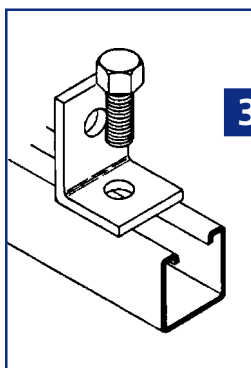
Strong, Fast, Economical and Adjustable

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

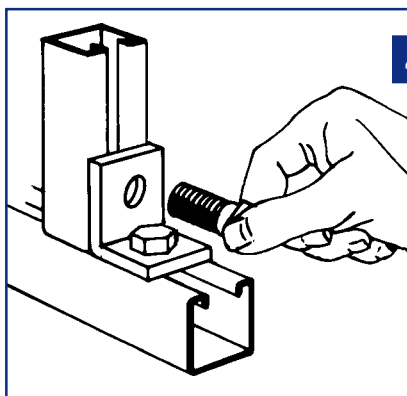
1**2**

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.

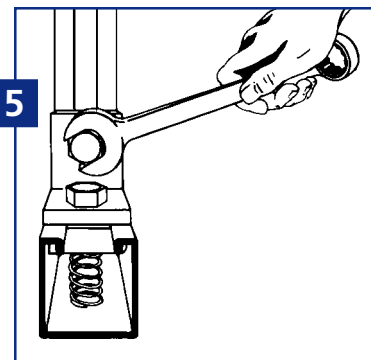
3

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.

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.

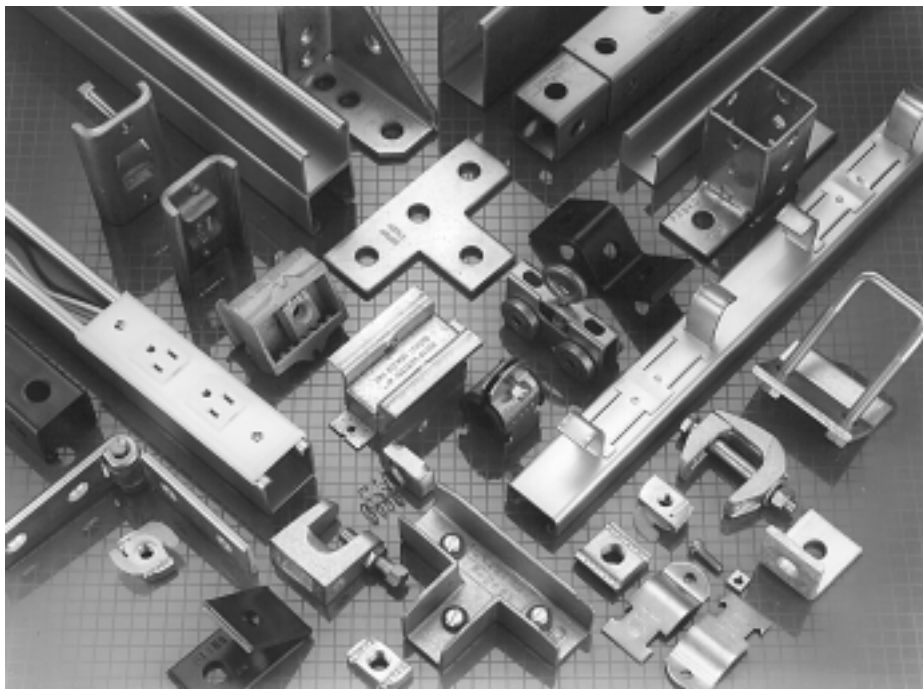
5

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



Serving Design Professionals for Over 60 Years

Unistrut products have been helping to build a better world since 1924. Used extensively in nuclear, industrial and commercial construction markets for over 75 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.



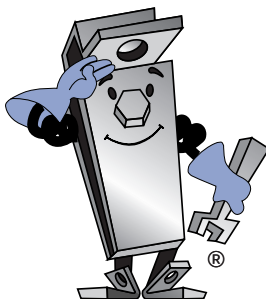
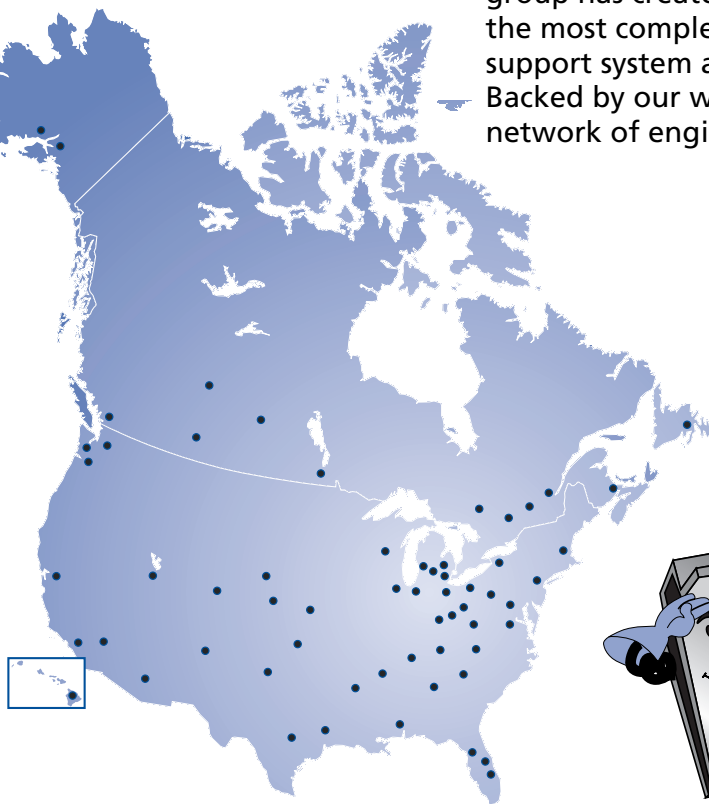
Unistrut® — The Original Metal Framing System

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.

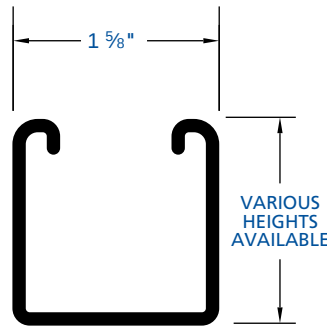
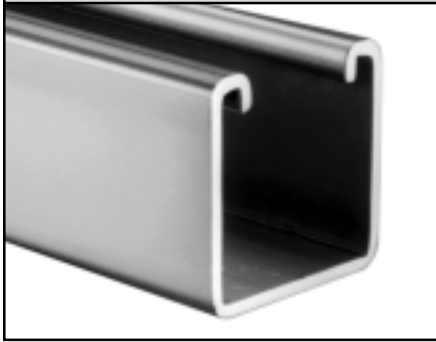
This catalog is a comprehensive presentation of Unistrut Metal Framing components plus technical data required by design, specification and construction professionals.



The Most Complete Metal Framing System — Three Channel-Width Options

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

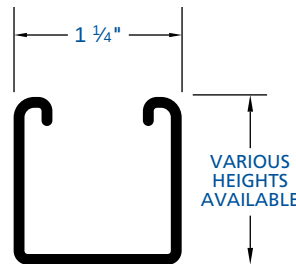
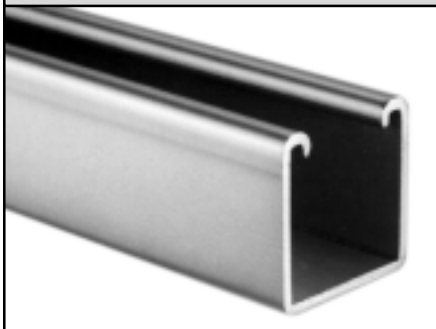
1 $\frac{5}{8}$ " width Series Channel



1 $\frac{5}{8}$ " (41mm) width

Designed to carry the heaviest loads and provide the widest variety of applications, the 1 $\frac{5}{8}$ " 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.

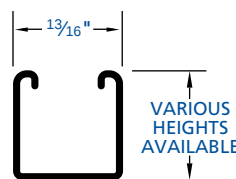
1 $\frac{1}{4}$ " width Series Channel



1 $\frac{1}{4}$ " (32mm) width

A framing system designed for medium loads, the 1 $\frac{1}{4}$ " 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 $\frac{3}{16}$ " width Series Channel



1 $\frac{3}{16}$ " (21mm) width

A unique half-size reduction of the 1 $\frac{5}{8}$ " 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, 1996 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, 1996 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 PG	A1011 SS GR 33 A653 GR 33
14	GR & HG PG	A1011 SS GR 33 A653 GR 33
16	GR & HG PG	A1011 SS GR 33 A653 GR 33
19	GR	A1008

Nuts and Bolts

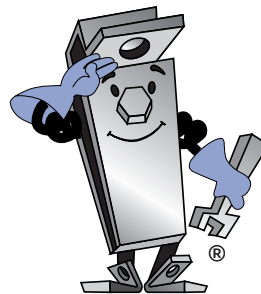
Unistrut nuts are made from steel bars. After all machining operations are complete, they are thoroughly case hardened. Nuts are rectangular with ends shaped to permit a quarter turn clockwise in the framing member after insertion through the slotted opening in the channel. Two toothed grooves in the 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 ½" and conforms to ASTM Specification A1011 SS GR 33 (material only). Screws conform to SAE J429 GR 2 (also meets and exceeds ASTM A307).

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.

Weights and Dimensions

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



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.

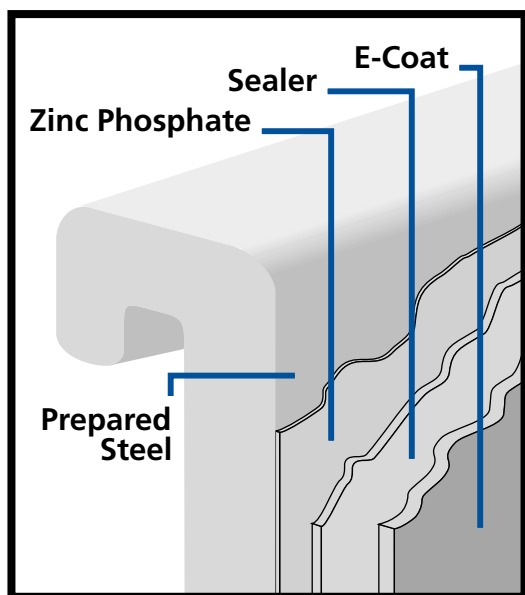
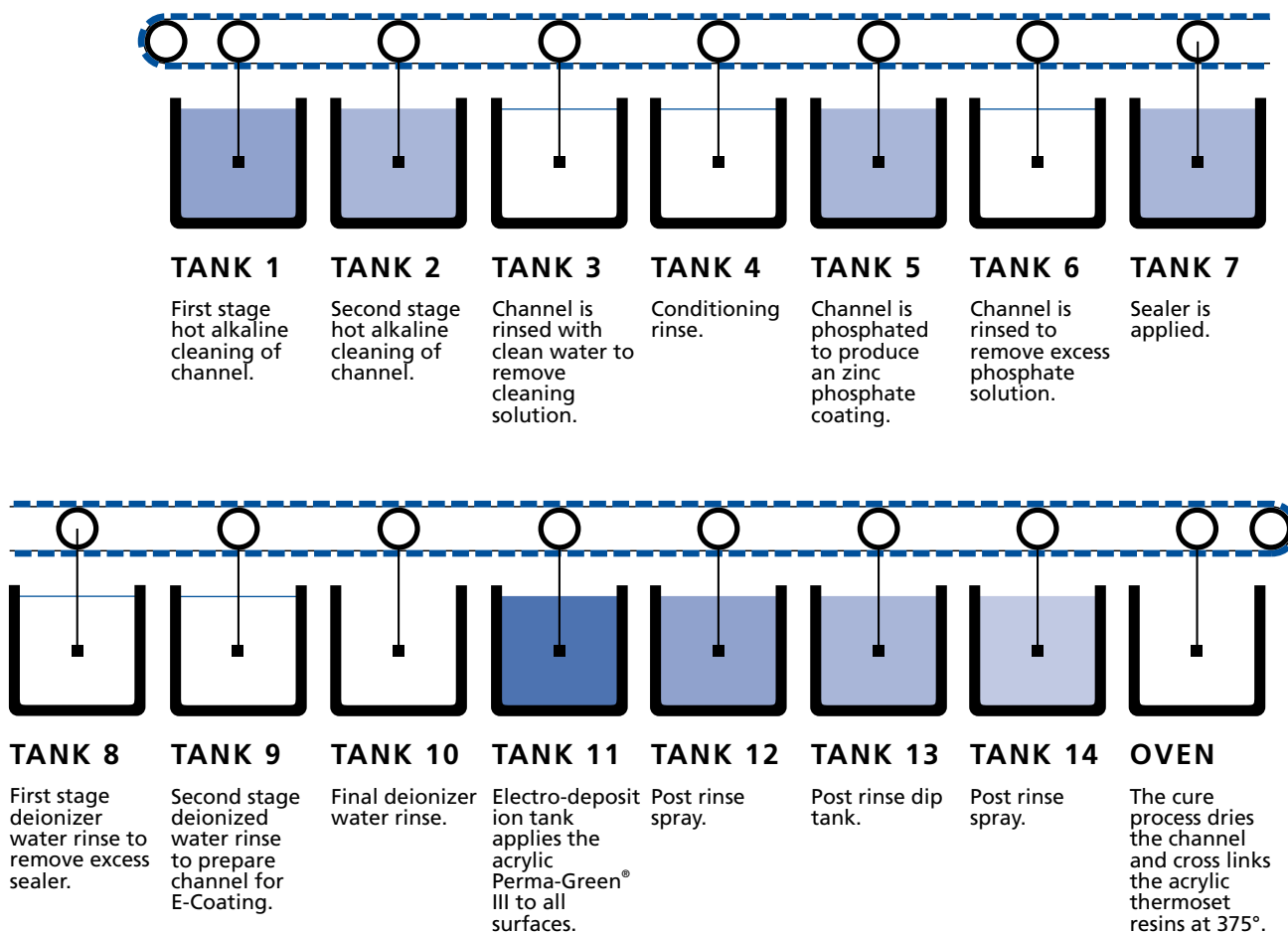
THE BLUE COLOR USED ON UNISTRUT COMPONENTS ILLUSTRATED IN THIS CATALOG IS FOR GRAPHIC ENHANCEMENT ONLY, AND DOES NOT REPRESENT ACTUAL PRODUCT COLOR.



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.



Unistrut Perma-Green III is a factory applied, electro-deposition acrylic coating with superior rust protection and fade-resistance. The acrylic coating is a proprietary formulation and is essentially "heavy-metal" free. The electrodeposition coating process provides a smooth, hard, durable surface which is completely cured. This inhibits introduction of airborne contaminants which can adversely affect sensitive manufacturing environments.

Before the electrodeposition acrylic coating is applied, Unistrut channel and fittings are

thoroughly cleaned and coated with an zinc phosphate conversion coating. Unistrut's unique, custom-designed "prep" process consists of ten separate steps, the most thorough in the industry. The cleaning, phosphating and electrodeposition coating processes are continuous and, unlike "batch" processing, result in a uniform coating quality.

Production samples are tested on a continuous basis for corrosion resistance. Unistrut Perma-Green III exceeds 400 hours salt spray ($\frac{1}{8}$ " creep from scribe) when tested to ASTM B117. Unscribed samples exceed 600 hours salt spray. (6% red rust)

PERMA-GREEN® III (GR) TECHNICAL DATA

STEEL SUBSTRATE PREPARATION

Ten stage continuous cleaning, phosphate process.

Substrate after "prep": sealed zinc phosphate conversion coating.

COATING

Thermoset acrylic

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. ($\frac{1}{8}$ " 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 bar-stock material.

Zinc Coating

Unistrut products are available in three types of zinc coatings:

- Electroplated
- Pregalvanized
- Hot Dip Galvanized.

Zinc coatings offer two types of protection:

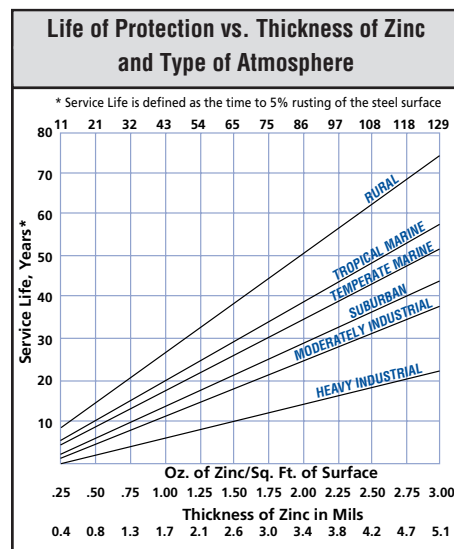
- Barrier: The zinc coating protects the steel substrate from direct contact with the environment.
- Sacrificial: The zinc coating will protect scratches, cut edges, etc. through an anodic sacrificial process.

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

COMPARISON OF ZINC GALVANIZED FINISHES

Finish	Zinc Thickness
Hot Dip Galvanized	2.6 MIL
Pregalvanized	.75 MIL
Electro-Galvanized	.2 to .5 MIL
Perma-Gold	.5 MIL

As shown in the graph, when the zinc coating is double, the service life is double under most conditions.



Electroplated Zinc– ASTM B633, Type III SC1

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.

Zinc plated parts typically have a zinc coating of .2 to .5 MIL and are recommended for dry indoor use.

Pregalvanized Zinc– 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.

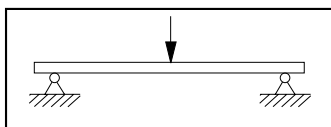


Beams

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:

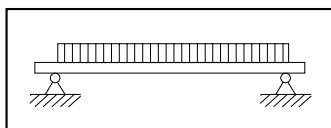
- (a) the amount of load applied,
- (b) the type of loading applied, and
- (c) the support conditions.

BEAM LOADING - POINT LOAD



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

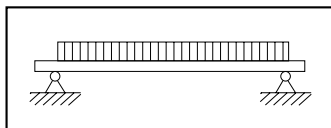
BEAM LOADING - UNIFORM LOAD



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

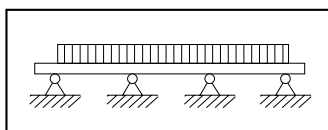
Point and uniform loads can be placed on a beam in any combination. A series of point loads can approximate a uniform loading. The load charts and tables are based on a uniform load unless identified otherwise.

SUPPORT CONDITIONS - SIMPLE BEAM



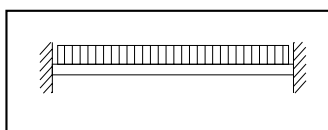
A simple beam has supports that prevent movement left and right, or up and down, but do not restrain the beam from rotating at the supports into a natural deflected curve. Most Unistrut Metal Framing connections produce simple beams. The load charts and tables are based on simple beams unless identified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

SUPPORT CONDITIONS - CONTINUOUS BEAM



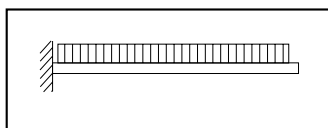
Any simple beam that is supported at one or more intermediate points is a continuous beam. A mezzanine joist that passes over three or more columns is an example of a continuous beam.

SUPPORT CONDITIONS - FIXED-END BEAM



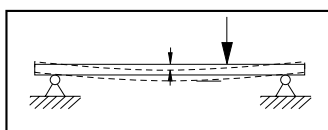
Supports that prevent the beam from rotating into a natural deflected curve produce a fixed-end beam. A welded end connection to very rigid support produces a fixed-end beam.

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.

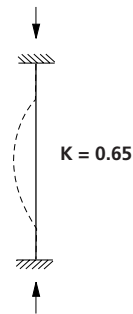
The load tables give allowable loads for both concentric (loaded at C.G.) and certain eccentric (loaded at slot face) loading. Allowable loads for other eccentric loading must be determined by a qualified design professional.

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

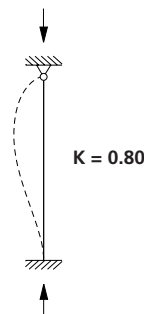
Both ends are restrained against rotation and lateral movement (translation).



SUPPORT CONDITIONS - PINNED TOP – FIXED BOTTOM

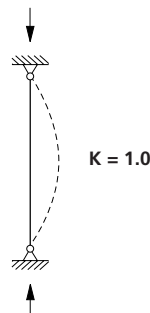
The top is restrained against lateral movement (translation) but is allowed to rotate. The bottom is restrained against rotation and lateral movement.

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



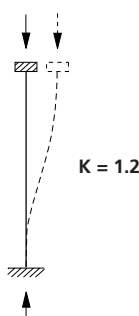
SUPPORT CONDITIONS - PINNED TOP – PINNED BOTTOM

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.

Recommended Bolt Torque						
Bolt Size	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Foot Lbs.	20	18	16	13	11	10
N•m	8	15	25	70	135	170

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.

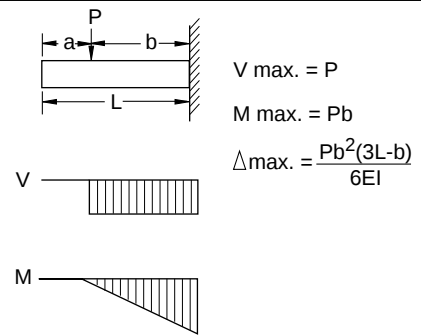
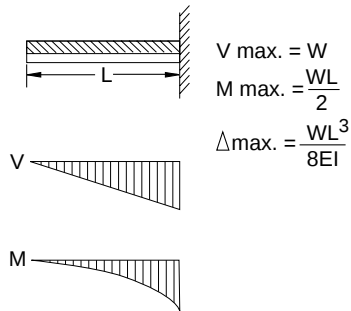
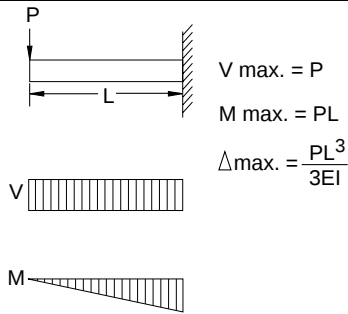
Unit Conversions

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

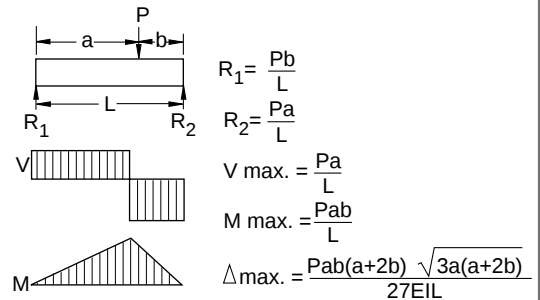
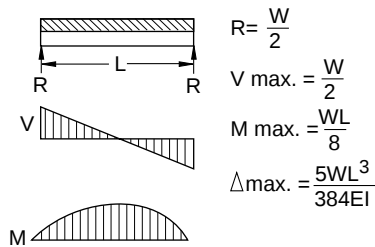
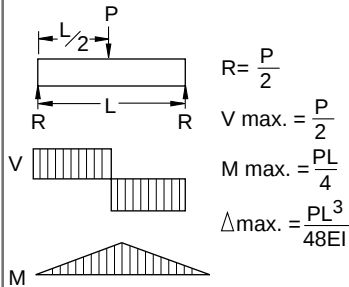
Metric to English		
To Convert From	To	Multiply By
Length		
Millimeter [mm]	Inch [in]	0.039 370
Meter [m]	Foot [ft]	3.280 840
Meter [m]	Yard [yd]	1.093 613
Kilometer [km]	Mile [mi] (U.S. Statute)	0.621 370
Area		
Square Millimeter [mm ²]	Square Inch [in ²]	0.001550
Square Meter [m ²]	Square Foot [ft 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

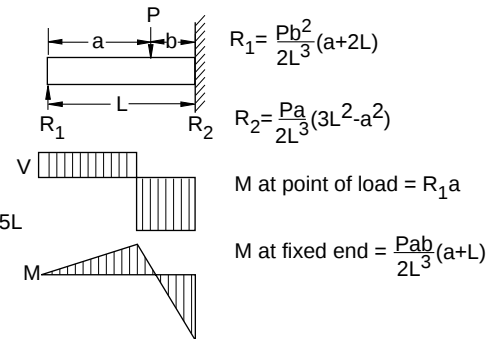
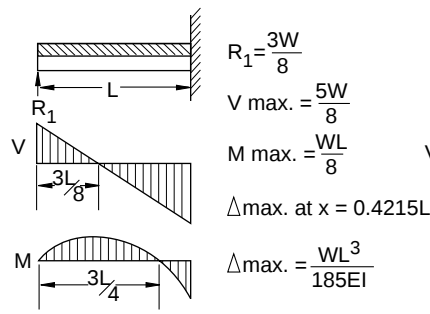
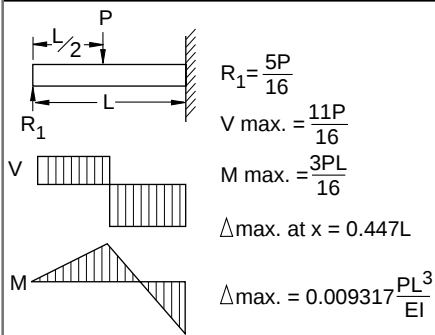
Cantilever Beams



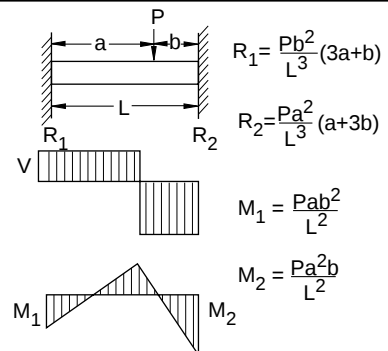
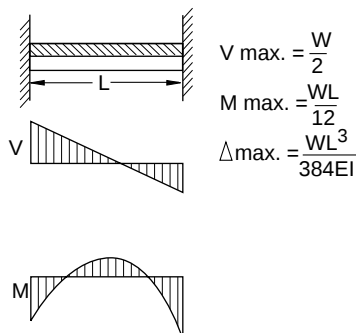
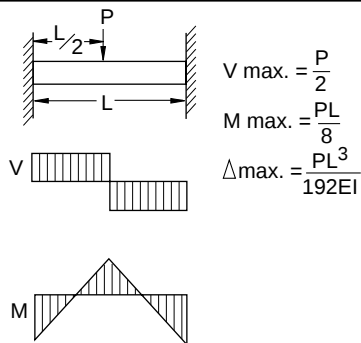
Cantilever Beams



Cantilever Beams



Cantilever Beams



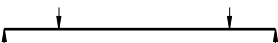
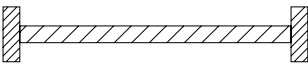
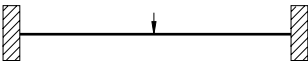
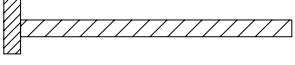
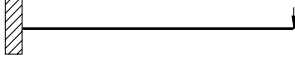
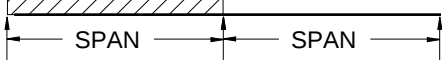
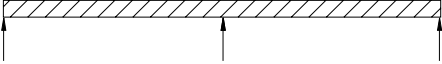
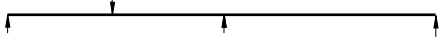
R – Reaction
 M – Moment
 P – Concentrated Load

W – Total Uniform Load
 V – Shear
 L – Length

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

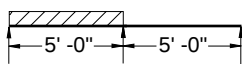
CONVERSION FACTORS FOR BEAMS WITH VARIOUS STATIC LOADING CONDITIONS

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 26 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 57 load for a 3'-0" span is 2190# and deflection is .09".
- Multiply by factors from Table above.
Load = 2190# x .12 = 263#
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 (AISI) Specification for the Design of Cold-Formed Steel Structural Members 1996 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 manufacturers 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® II (GR)
Rust inhibiting acrylic enamel paint applied by electro-deposition, after cleaning and phosphating, and thoroughly baked. Color is per Federal Standard 595a color number

14109 (dark limit V-). Finish to withstand minimum 400 hours salt spray when tested in accordance with ASTM B 117.

- 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. 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.

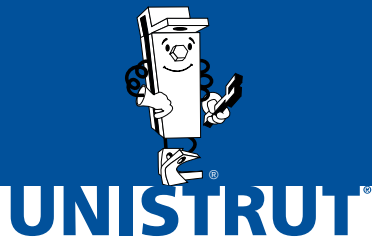
3.03 CLEANUP

- 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.

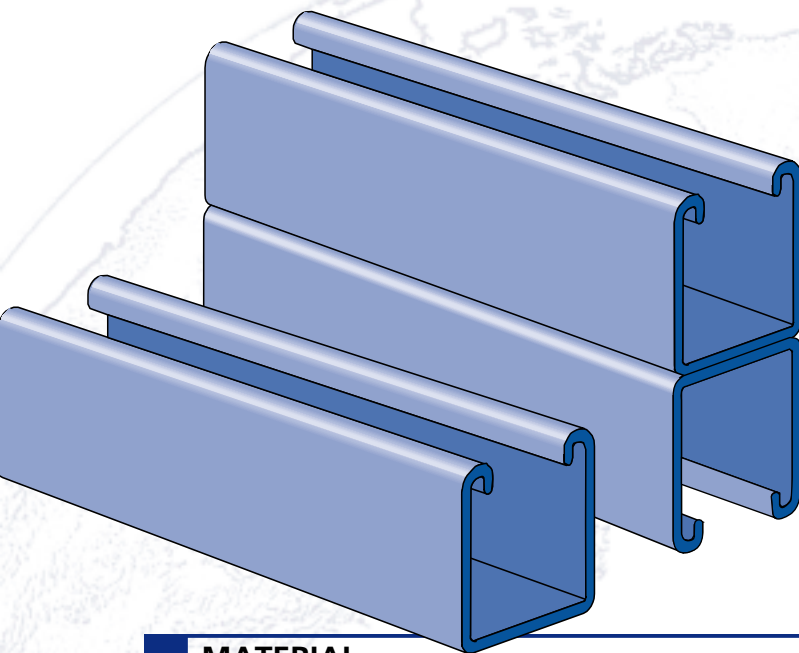
3.04 PROTECTION

- 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.





1⁵/₈" CHANNEL



Channel Selection Chart	24
P1000 (12 Gauge)	25
P1100 (14 Gauge)	32
P2000 (16 Gauge)	36
P3000 (12 Gauge)	40
P3300 (12 Gauge)	43
P4000 (16 Gauge)	46
P4100 (14 Gauge)	50
P5000 (12 Gauge)	53
P5500 (12 Gauge)	56
Closure Strips	59
End Caps and Frame Caps	60

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. (1.5 mm)
ASTM A653 GR 33.

For other materials, see Special Metals or Fiberglass sections.

FINISHES

All channels are available in:

- Perma Green II (GR).
- Pre-galvanized (PG), conforming to ASTM A653 G90.
- Hot-dipped galvanized (HG), conforming to ASTM A123.
- 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).

CURVED CHANNEL

Many Unistrut 1⁵/₈" (41mm) channel sections are available as curved pieces in both single and combination styles. Contact your local Unistrut Service Center or Unistrut Corporation for ordering information.

DIMENSIONS

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

LOAD DATA

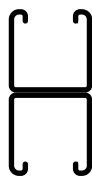
All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 1996 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE.



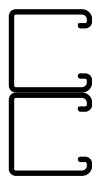
P1000 Series (12 gauge)



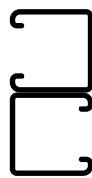
P1000
Pg 25



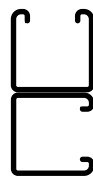
P1001 - Pg 25
P1001T - Pg 28



P1001A
Pg 28



P1001B
Pg 28



P1001C
Pg 28



P1001 3
Pg 29



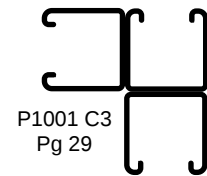
P1001 A3
Pg 29



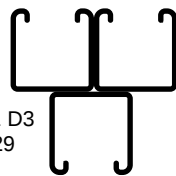
P1001 B3
Pg 29



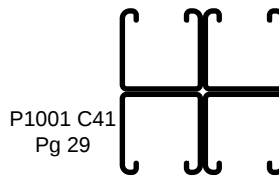
P1004A
Pg 29



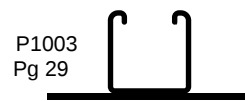
P1001 C3
Pg 29



P1001 D3
Pg 29



P1001 C41
Pg 29



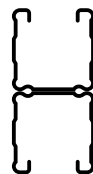
P1003
Pg 29

P1100 Series (14 gauge)

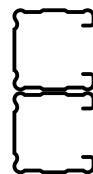
P1100
Pg 32



P1101
Pg 32



P1101A
Pg 33



P1101B
Pg 33



P1101C
Pg 33



P2000 Series (16 gauge)

P2000
Pg 36



P2001
Pg 36



P2001A
Pg 37



P2001B
Pg 37



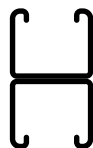
P2001C
Pg 37



P3000 Series (12 gauge)



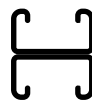
P3000
Pg 40



P3001
Pg 40



P3300
Pg 43



P3301
Pg 43

P3300 Series (12 gauge)



P4100
Pg 50



P4101
Pg 50

P4100 Series (14 gauge)

P4000 Series (16 gauge)

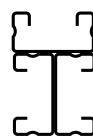
P4000
Pg 46



P4001
Pg 46

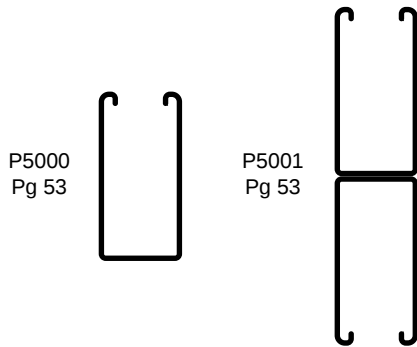
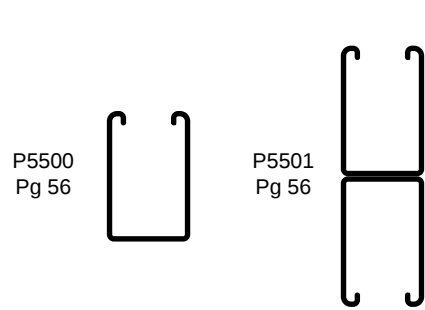
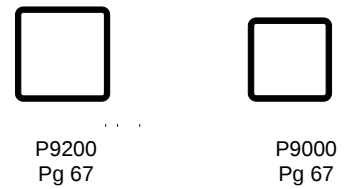
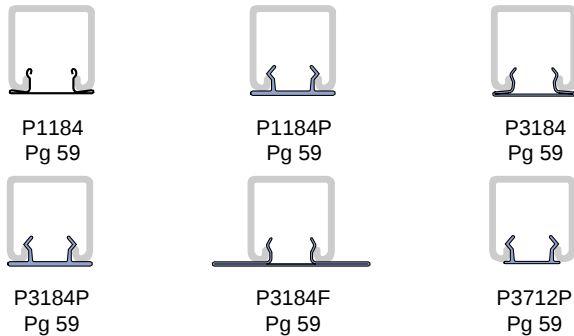
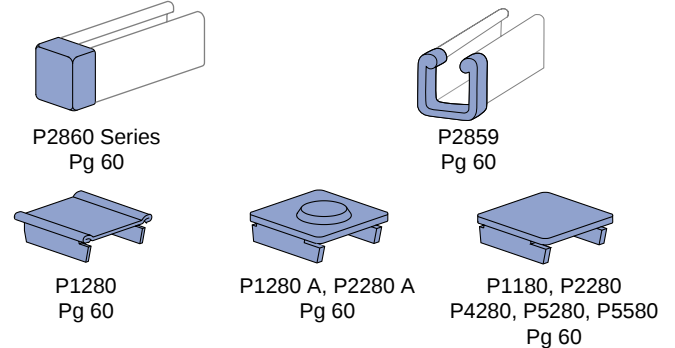
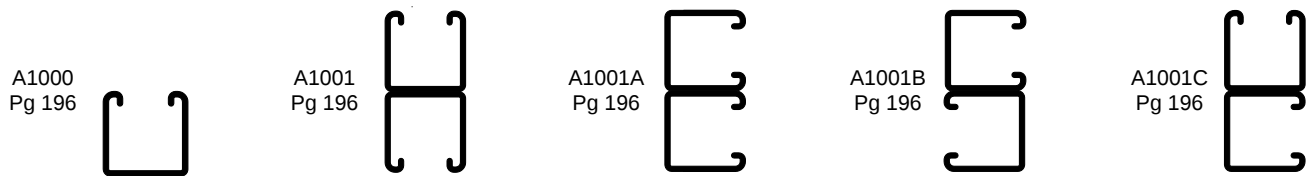
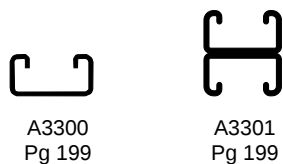
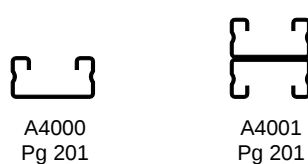
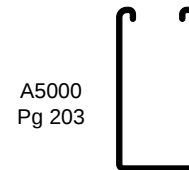
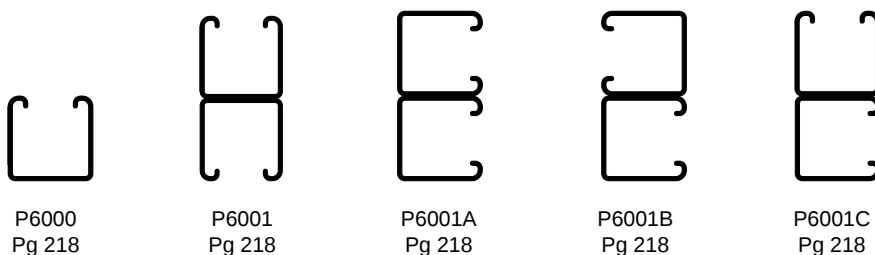


P4003
Pg 47



P4004
Pg 47

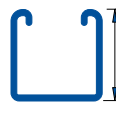
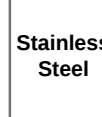
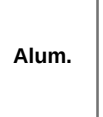
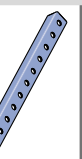
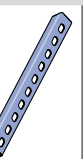
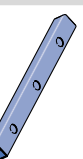
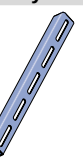


P5000 Series (12 gauge)

P5500 Series (12 gauge)

**P9000 Series (12 gauge)
Telestrut Channel**

1 5/8" Channel Closure Strips

End Caps and Frame Caps

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

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

**A4000 Series (19 gauge)
1 1/4" Channel**

**A5000 Series (14 gauge)
1 1/4" Channel**

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

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


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



Channel Selection Chart

Channel Dimensions			Material & Thickness			Hole Pattern Styles					
											
Channel	Width In (mm)	Height In (mm)	Steel gauge	Stainless gauge	Alum. In (mm)	HS	T	KO	SL	DS	H3
P1000	1 ⁵ / ₈ 41	1 ⁵ / ₈ 41	12 ga	12 ga	0.109 2.8	■	■	■	■	■	■
P1100	1 ⁵ / ₈ 41	1 ⁵ / ₈ 41	14 ga	14 ga	—	■	■	■	■	—	—
P2000	1 ⁵ / ₈ 41	1 ⁵ / ₈ 41	16 ga	—	—	■	■	■	■	—	—
P3000	1 ⁵ / ₈ 41	1 ³ / ₈ 35	12 ga	—	—	■	■	■	■	—	—
P3300	1 ⁵ / ₈ 41	7/ ₈ 22	12 ga	12 ga	—	■	■	—	■	—	—
P4000	1 ⁵ / ₈ 41	13/ ₁₆ 21	16 ga	16 ga	0.078 2.0	■	■	—	■	—	—
P4100	1 ⁵ / ₈ 41	13/ ₁₆ 21	14 ga	—	—	■	■	—	■	—	—
P5000	1 ⁵ / ₈ 41	3 ¹ / ₄ 83	12 ga	—	—	■	■	■	■	—	—
P5500	1 ⁵ / ₈ 41	2 ⁷ / ₁₆ 62	12 ga	—	0.109 2.8	■	■	■	■	—	—

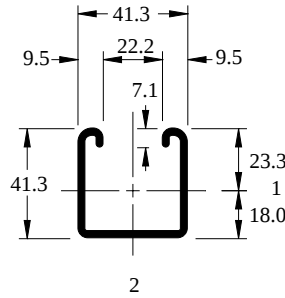
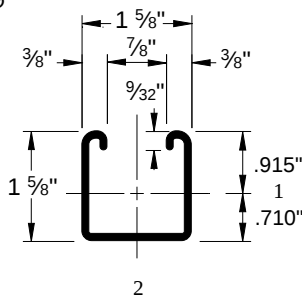
Channels & Combinations in Descending Order of Strength

Channel	Area In ² (cm ²)	Weight lbs/ft (kg/m)	I In ⁴ (cm ⁴)	s In ³ (cm ³)	Allow. Moment In-lbs (N•m)
P5001	1.794 11.6	6.10 9.1	5.578 232.2	1.716 28.1	33,909 3,831
P1004A	1.978 12.8	6.70 10.0	4.079 169.8	1.673 27.4	42,075 4,754
P5501	1.453 9.4	4.94 7.4	2.811 117.0	1.153 18.9	28,998 3,276
P1001C41	2.223 14.3	7.60 11.2	1.860 77.4	1.145 18.8	28,796 3,254
P5000	0.897 5.8	3.05 4.5	1.099 45.7	0.628 10.3	15,794 1,784
P1001	1.112 7.2	3.80 5.6	0.930 38.7	0.572 9.4	14,386 1,625
P1101	0.834 5.4	2.84 4.2	0.741 30.8	0.456 7.5	11,468 1,296
P3001	1.007 6.5	3.40 5.1	0.593 24.7	0.431 7.1	10,840 1,225
P5500	0.726 4.7	2.47 3.7	0.523 21.8	0.391 6.4	9,834 1,111
P2001	0.681 4.4	2.32 3.4	0.616 25.6	0.379 6.2	9,532 1,077
P9200	0.489 3.2	2.23 3.3	0.278 11.6	0.297 4.9	7,470 844
A5000	0.492 3.2	1.67 2.5	0.359 14.9	0.266 4.4	6,690 756
A1001	0.610 3.9	2.08 3.1	0.303 12.6	0.242 4.0	6,086 688
P3301	0.797 5.1	2.70 4.0	0.177 7.4	0.202 3.3	5,080 574
P1000	0.556 3.6	1.90 2.8	0.185 7.7	0.202 3.3	5,080 574
P9000	0.384 2.5	2.05 3.1	0.164 6.8	0.203 3.3	5,060 572

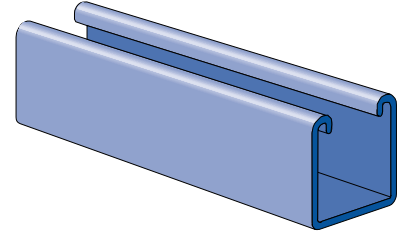
Channel	Area In ² (cm ²)	Weight lbs/ft (kg/m)	I In ⁴ (cm ⁴)	s In ³ (cm ³)	Allow. Moment In-lbs (N•m)
P1100	0.417 2.7	1.42 2.1	0.149 6.2	0.166 2.7	4,175 472
P3000	0.503 3.2	1.70 2.5	0.121 5.0	0.154 2.5	3,873 438
P4101	0.574 3.7	1.94 2.9	0.114 4.7	0.141 2.3	3,546 401
P2000	0.340 2.2	1.16 1.7	0.124 5.2	0.140 2.3	3,521 398
P4001	0.478 3.1	1.64 2.4	0.101 4.2	0.125 2.0	3,144 355
A3301	0.460 3.0	1.56 2.3	0.078 3.2	0.103 1.7	2,590 293
A1000	0.305 2.0	1.04 1.5	0.061 2.5	0.086 1.4	2,163 244
P3300	0.398 2.6	1.35 2.0	0.037 1.5	0.072 1.2	1,811 205
P6001	0.211 1.4	0.72 1.1	0.044 1.8	0.054 0.9	1,358 153
P4100	0.287 1.9	0.97 1.5	0.025 1.0	0.053 0.9	1,333 151
A4001	0.245 1.6	0.90 1.2	0.031 1.3	0.049 0.8	1,232 139
P4000	0.239 1.5	0.82 1.2	0.023 1.0	0.048 0.8	1,207 136
A3300	0.230 1.5	0.78 1.2	0.017 0.7	0.038 0.6	956 108
P6000	0.105 0.7	0.36 0.5	0.009 0.4	0.020 0.3	503 57
A4000	0.123 0.8	0.45 0.6	0.007 0.3	0.019 0.3	478 54
P7001	0.146 0.9	0.50 0.7	0.007 0.3	0.017 0.3	428 48
P7000	0.073 0.5	0.25 0.4	0.002 0.1	0.007 0.1	176 20

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

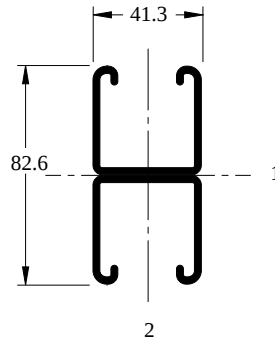
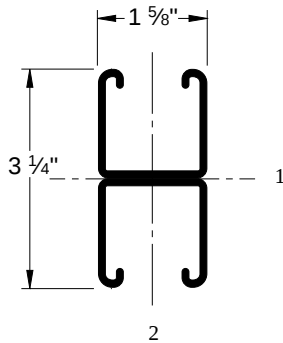
P1000®



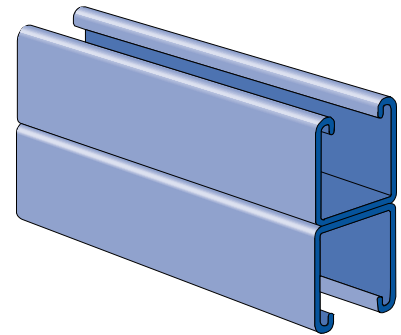
Wt/100 Ft: 190 Lbs (283 kg/100 m)
Allowable Moment 5,080 In-Lbs (570 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P1001



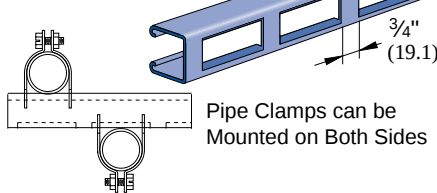
Wt/100 Ft: 380 Lbs (566 kg/100 m)
Allowable Moment 14,390 In-Lbs (1,630 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P1000 DS

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

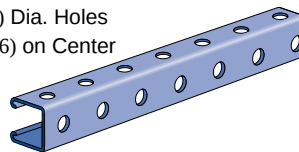
Slots are 2 3/4" (69.9) x 7/8" (22.2)
3 1/2" (88.9) on Center



P1000 H3

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

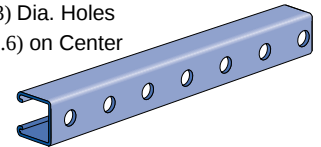
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P1000 HS

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

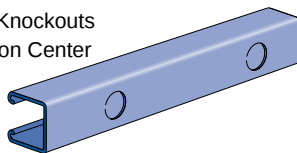
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P1000 KO

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

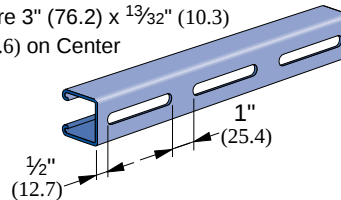
7/8" (22.2) Knockouts
6" (152.4) on Center



P1000 SL

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

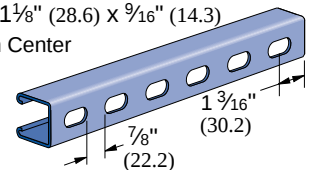
Slots are 3" (76.2) x 13/32" (10.3)
4" (101.6) on Center



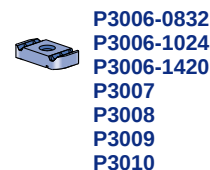
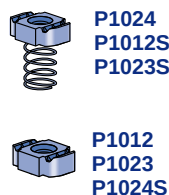
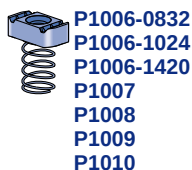
P1000 T

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

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



Channel Nuts (Refer to Hardware Section for Details)



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



BEAM LOADING – P1000

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	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	510
60	680	0.35	650	490	320
72	560	0.50	450	340	220
84	480	0.68	330	250	170
96	420	0.89	250	190	130
108	380	1.13	200	150	100
120	340	1.40	160	120	80
144	280	2.01	110	80	60
168	240	2.74	80	60	40
192	210	3.57	60	50	NR
216	190	4.52	50	40	NR
240	170	5.58	40	NR	NR

BEAM LOADING – P1001

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	3,130 *	0.03	3,130 *	3,130 *	3,130 *
36	3,130 *	0.07	3,130 *	3,130 *	3,130 *
48	2,400	0.13	2,400	2,400	2,400
60	1,920	0.20	1,920	1,920	1,630
72	1,600	0.28	1,600	1,600	1,130
84	1,370	0.39	1,370	1,240	830
96	1,200	0.50	1,200	950	640
108	1,070	0.64	1,000	750	500
120	960	0.79	810	610	410
144	800	1.13	560	420	280
168	690	1.54	410	310	210
192	600	2.01	320	240	160
216	530	2.55	250	190	130
240	480	3.15	200	150	100

COLUMN LOADING – P1000

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,450	10,750	9,900	8,770	7,730
36	3,050	8,910	7,730	6,370	5,280
48	2,660	7,250	5,980	4,660	3,770
60	2,290	5,890	4,660	3,600	2,940
72	2,000	4,800	3,770	2,940	2,380
84	1,760	4,010	3,170	2,460	1,970
96	1,570	3,450	2,730	2,090	1,650
108	1,410	3,020	2,380	1,800	**
120	1,270	2,680	2,090	**	**

COLUMN LOADING – P1001

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	6,430	25,060	24,620	23,900	23,050
36	6,230	24,000	23,050	21,570	19,890
48	5,950	22,590	21,030	18,690	16,170
60	5,620	20,890	18,690	15,540	12,400
72	5,240	18,990	16,170	12,400	8,960
84	4,830	16,970	13,640	9,470	6,580
96	4,390	14,900	11,200	7,250	5,040
108	3,930	12,860	8,960	5,730	3,980
120	3,510	10,910	7,250	4,640	**

ELEMENTS OF SECTION P1000/P1001

Parameter	P1000	P1001
Area of Section	0.556 In ²	1.112 In ²
Axis 1-1		
Moment of Inertia (I)	0.185 In ⁴	0.930 In ⁴
Section Modulus (S)	0.202 In ³	0.572 In ³
Radius of Gyration (r)	0.577 In	0.915 In
Axis 2-2		
Moment of Inertia (I)	0.236 In ⁴	0.472 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.

** $K L_r > 200$

NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

"DS" Series	70%	"T" Series	85%
"KO" Series	95%	"H3" Series	90%
"SL" Series	85%	"HS" Series	90%

BEAM LOADING – P1000 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	780	1	780	780	780
750	624	2	624	624	606
1,000	468	4	468	468	341
1,250	375	6	375	327	218
1,500	312	9	303	227	151
1,750	268	12	223	167	111
2,000	234	15	170	128	85
2,500	187	24	109	82	55
3,000	156	34	76	57	38
3,500	134	47	56	42	28
4,000	117	61	43	32	21
4,500	104	77	34	25	17
5,000	94	95	27	20	NR
6,000	78	137	19	NR	NR

BEAM LOADING – P1001 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	1420 *	1	1420 *	1420 *	1420 *
750	1420 *	1	1420 *	1420 *	1420 *
1,000	1326	2	1326	1326	1326
1,250	1061	3	1061	1061	1061
1,500	884	5	884	884	761
1,750	758	7	758	758	559
2,000	663	9	663	642	428
2,500	530	13	530	411	274
3,000	442	19	381	286	190
3,500	379	26	280	210	140
4,000	332	34	214	161	107
4,500	295	44	169	127	85
5,000	265	54	137	103	69
6,000	221	77	95	71	48

COLUMN LOADING – P1000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,571	4,904	4,525	4,019	3,548
750	1,485	4,493	4,019	3,437	2,935
1,000	1,334	3,818	3,261	2,645	2,154
1,250	1,187	3,218	2,645	2,052	1,664
1,500	1,051	2,714	2,154	1,664	1,355
1,750	937	2,298	1,799	1,399	1,136
2,000	844	1,960	1,547	1,202	968
2,500	698	1,521	1,202	920	**
2,750	638	1,366	1,075	815	**

COLUMN LOADING – P1001 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	2,919	11,381	11,185	10,870	10,496
750	2,878	11,168	10,870	10,395	9,842
1,000	2,792	10,721	10,218	9,437	8,563
1,250	2,686	10,173	9,437	8,335	7,161
1,500	2,562	9,541	8,563	7,161	5,755
1,750	2,425	8,844	7,634	5,985	4,436
2,000	2,275	8,104	6,687	4,866	3,396
2,500	1,951	6,569	4,866	3,130	2,174
2,750	1,779	5,812	4,042	2,587	1,797

ELEMENTS OF SECTION
P1000/P1001 (METRIC)

Parameter	P1000	P1001
Area of Section	3.59 cm ²	7.17 cm ²
Axis 1-1		
Moment of Inertia (I)	7.7 cm ⁴	38.7 cm ⁴
Section Modulus (S)	3.31 cm ³	9.37 cm ³
Radius of Gyration (r)	1.5 cm	2.3 cm
Axis 2-2		
Moment of Inertia (I)	9.8 cm ⁴	19.6 cm ⁴
Section Modulus (S)	4.75 cm ³	9.50 cm ³
Radius of Gyration (r)	1.7 cm	1.7 cm

Notes:

* Load limited by spot weld shear.

** $K L_r > 200$

NR = Not Recommended.

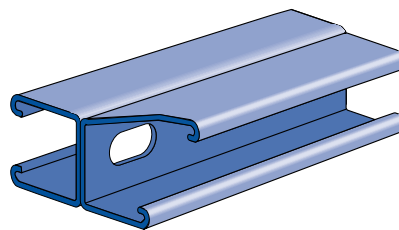
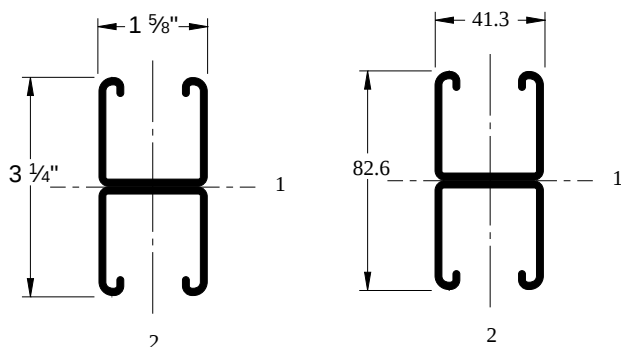
- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

"DS" Series	70%	"T" Series	85%
"KO" Series	95%	"H3" Series	90%
"SL" Series	85%	"HS" Series	90%



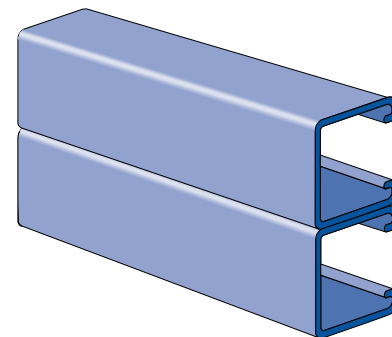
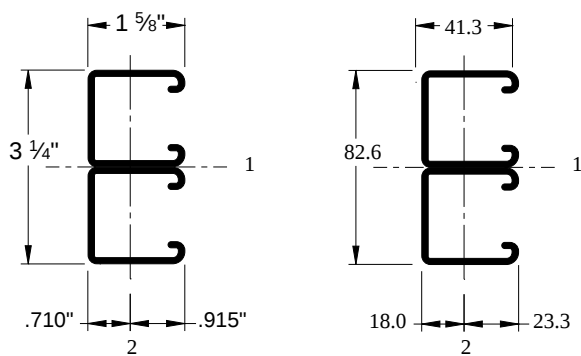
P1001 T

Wt/100 Ft: 380 Lbs (566 kg/100 m)
 Allowable Moment 14,390 In-Lbs (1,630 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)



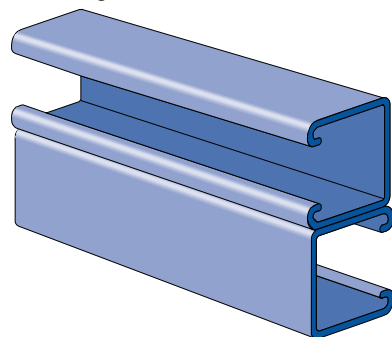
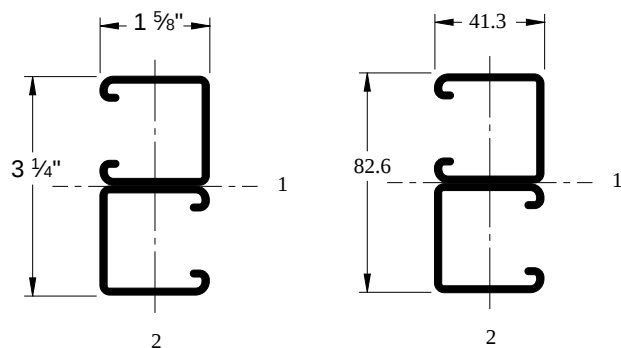
P1001 A

Wt/100 Ft: 380 Lbs (566 kg/100 m)
 Allowable Moment 18,660 In-Lbs (2,110 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)



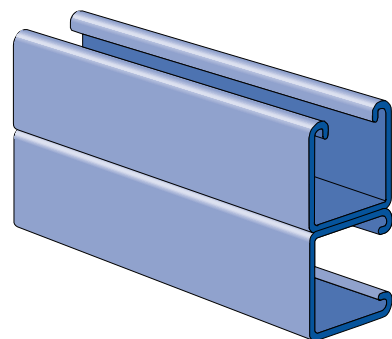
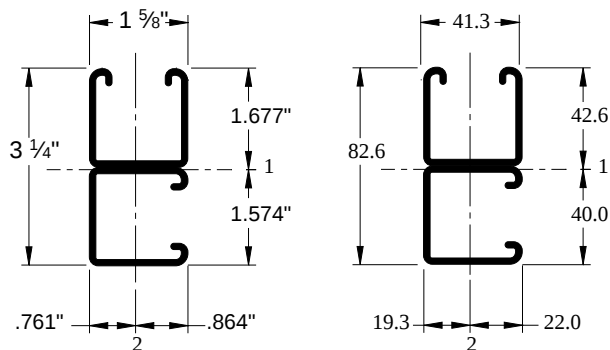
P1001 B

Wt/100 Ft: 380 Lbs (566 kg/100 m)
 Allowable Moment 18,660 In-Lbs (2,110 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)



P1001 C

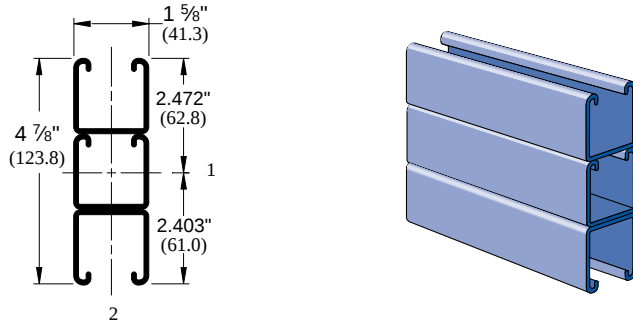
Wt/100 Ft: 380 Lbs (566 kg/100 m)
 Allowable Moment 15,970 In-Lbs (1,800 N•m)
 12 Gauge Nominal Thickness .105" (2.7mm)



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

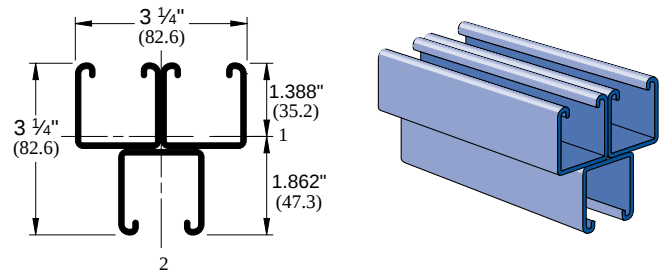
P1001 3

Wt/100 Ft: 570 Lbs (848 kg/100 m)
Allowable Moment 31,890 In-Lbs (3,600 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



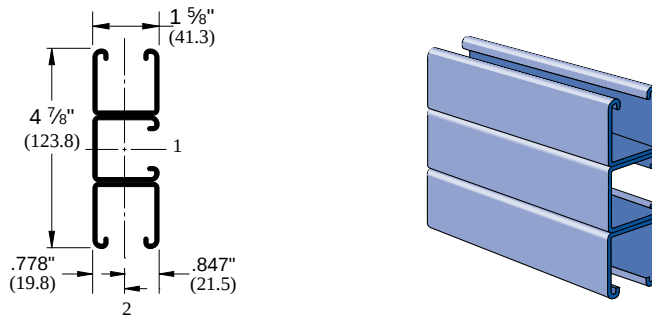
P1001 D3

Wt/100 Ft: 570 Lbs (848 kg/100 m)
Allowable Moment 17,580 In-Lbs (1,990 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



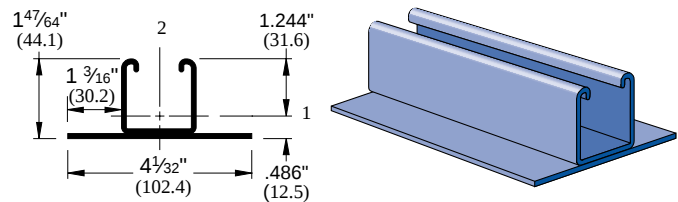
P1001 A3

Wt/100 Ft: 570 Lbs (848 kg/100 m)
Allowable Moment 32,820 In-Lbs (3,710 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



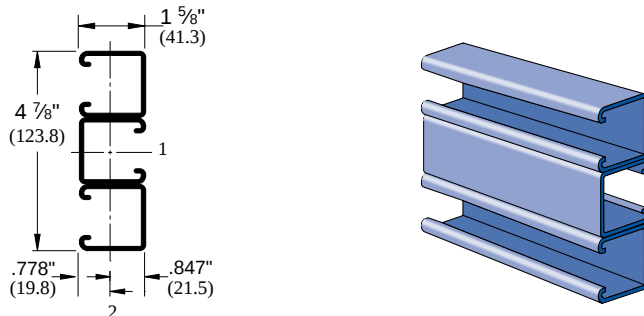
P1003

Wt/100 Ft: 332 Lbs (494 kg/100 m)
Allowable Moment 6,560 In-Lbs (740 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



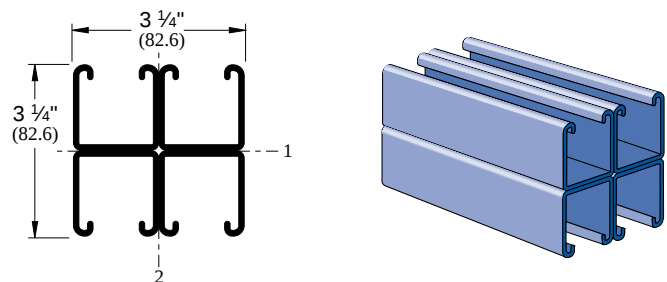
P1001 B3

Wt/100 Ft: 570 Lbs (848 kg/100 m)
Allowable Moment 37,570 In-Lbs (4,240 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



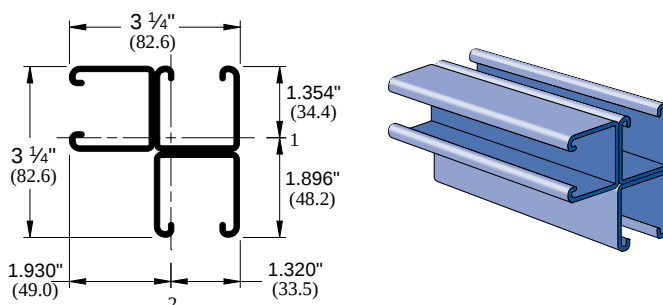
P1001 C41

Wt/100 Ft: 760 Lbs (1131 kg/100 m)
Allowable Moment 28,800 In-Lbs (3,250 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



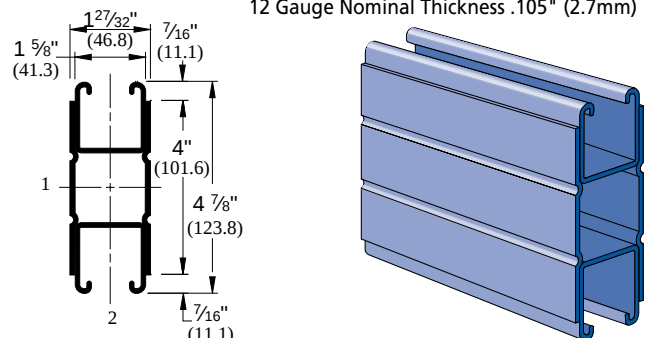
P1001 C3

Wt/100 Ft: 570 Lbs (848 kg/100 m)
Allowable Moment 18,710 In-Lbs (2,110 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P1004 A

Wt/100 Ft: 670 Lbs (997 kg/100 m)
Allowable Moment 42,080 In-Lbs (4,750 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



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

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



BEAM LOADING – P1001 C41

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	6,270 *	0.03	6,270 *	6,270 *	6,270 *
36	6,270 *	0.07	6,270 *	6,270 *	6,270 *
48	4,800	0.13	4,800	4,800	4,800
60	3,840	0.20	3,840	3,840	3,250
72	3,200	0.28	3,200	3,200	2,260
84	2,740	0.39	2,740	2,490	1,660
96	2,400	0.50	2,400	1,910	1,270
108	2,130	0.64	2,010	1,510	1,000
120	1,920	0.79	1,630	1,220	810
144	1,600	1.13	1,130	850	560
168	1,370	1.54	830	620	410
192	1,200	2.02	640	480	320
216	1,070	2.55	500	380	250
240	960	3.15	410	300	200

BEAM LOADING – P1004 A

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	9,350 *	0.02	9,350 *	9,350 *	9,350 *
36	9,350	0.05	9,350	9,350	9,350
48	7,010	0.08	7,010	7,010	7,010
60	5,610	0.13	5,610	5,610	5,610
72	4,680	0.19	4,680	4,680	4,680
84	4,010	0.26	4,010	4,010	3,640
96	3,510	0.34	3,510	3,510	2,790
108	3,120	0.42	3,120	3,120	2,200
120	2,810	0.52	2,810	2,670	1,780
144	2,340	0.76	2,340	1,860	1,240
168	2,000	1.03	1,820	1,360	910
192	1,750	1.34	1,390	1,040	700
216	1,560	1.70	1,100	830	550
240	1,400	2.10	890	670	450

COLUMN LOADING – P1001 C41

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	12,910	50,480	49,820	48,780	47,610
36	12,560	48,920	47,610	45,710	43,730
48	12,130	46,990	45,050	42,420	39,930
60	11,640	44,890	42,420	39,340	35,690
72	11,120	42,750	39,930	35,690	30,280
84	10,570	40,690	37,450	31,180	24,930
96	9,930	38,770	33,900	26,690	19,890
108	9,270	36,360	30,280	22,370	15,720
120	8,620	33,450	26,690	18,330	12,730

COLUMN LOADING – P1004 A

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	11,390	36,960	33,980	30,430	27,500
36	10,510	30,840	27,500	24,180	21,870
48	9,780	26,260	23,320	20,720	19,070
60	9,240	23,120	20,720	18,750	17,540
72	8,830	20,980	19,070	17,540	16,660
84	8,520	19,510	17,970	16,770	15,660
96	8,260	18,470	17,190	16,280	11,990
108	8,050	17,690	16,660	13,640	9,470
120	7,870	17,110	16,280	11,050	7,670

ELEMENTS OF SECTION P1001 C41/ P1004 A

Parameter	P1001 C41	P1004 A
Area of Section	2.223 In ²	1.978 In ²
Axis 1-1		
Moment of Inertia (I)	1.860 In ⁴	4.079 In ⁴
Section Modulus (S)	1.145 In ³	1.673 In ³
Radius of Gyration (r)	0.915 In	1.436 In
Axis 2-2		
Moment of Inertia (I)	2.411 In ⁴	1.121 In ⁴
Section Modulus (S)	1.484 In ³	1.204 In ³
Radius of Gyration (r)	1.041 In	0.753 In

*Load limited by spot weld shear.

Notes:

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.

BEAM LOADING – P1001 C41 (METRIC)

Span mm	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load kg	Uniform Load mm	Span/180 kg	Span/240 kg	Span/360 kg
600	2844 *	1	2844 *	2844 *	2844 *
750	2844 *	1	2844 *	2844 *	2844 *
1,000	2654	2	2654	2654	2654
1,250	2123	3	2123	2123	2123
1,500	1769	5	1769	1769	1523
1,750	1517	7	1517	1517	1119
2,000	1327	9	1327	1285	856
2,500	1062	13	1062	822	548
3,000	885	19	761	571	381
3,500	758	26	559	420	280
4,000	664	34	428	321	214
4,500	590	44	338	254	169
5,000	531	54	274	206	137
6,000	442	77	190	143	95

BEAM LOADING – P1004 A (METRIC)

Span mm	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load kg	Uniform Load mm	Span/180 kg	Span/240 kg	Span/360 kg
600	4241 *	1	4241 *	4241 *	4241 *
750	4241 *	1	4241	4241	4241
1,000	3878	1	3878	3878	3878
1,250	3102	2	3102	3102	3102
1,500	2585	3	2585	2585	2585
1,750	2216	4	2216	2216	2216
2,000	1939	6	1939	1939	1878
2,500	1551	9	1551	1551	1202
3,000	1293	13	1293	1252	835
3,500	1108	18	1108	920	613
4,000	970	23	939	704	470
4,500	862	29	742	557	371
5,000	776	36	601	451	301
6,000	646	52	417	313	209

COLUMN LOADING – P1001 C41 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	5,859	22,918	22,624	22,166	21,649
750	5,789	22,598	22,166	21,513	20,803
1,000	5,647	21,957	21,281	20,314	19,336
1,250	5,480	21,222	20,314	19,096	17,950
1,500	5,297	20,437	19,336	17,950	16,379
1,750	5,104	19,640	18,396	16,708	14,371
2,000	4,907	18,859	17,523	15,045	12,358
2,500	4,444	17,420	15,045	11,700	8,585
2,750	4,200	16,462	13,697	10,103	7,095

COLUMN LOADING – P1004 A (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	5,182	16,859	15,521	13,920	12,588
750	4,979	15,414	13,920	12,297	11,070
1,000	4,667	13,331	11,848	10,431	9,473
1,250	4,410	11,742	10,431	9,285	8,561
1,500	4,207	10,579	9,473	8,561	7,999
1,750	4,048	9,734	8,814	8,077	7,639
2,000	3,921	9,114	8,348	7,741	7,406
2,500	3,726	8,300	7,741	7,346	5,173
2,750	3,650	8,018	7,551	6,157	4,275

ELEMENTS OF SECTION
P1001 C41/ P1004 A (METRIC)

Parameter	P1001 C41	P1004 A
Area of Section	14.34 cm ²	12.76 cm ²
Axis 1-1		
Moment of Inertia (I)	77.4 cm ⁴	169.8 cm ⁴
Section Modulus (S)	18.76 cm ³	27.42 cm ³
Radius of Gyration (r)	2.3 cm	3.6 cm
Axis 2-2		
Moment of Inertia (I)	100.4 cm ⁴	46.7 cm ⁴
Section Modulus (S)	24.32 cm ³	19.73 cm ³
Radius of Gyration (r)	2.6 cm	1.9 cm

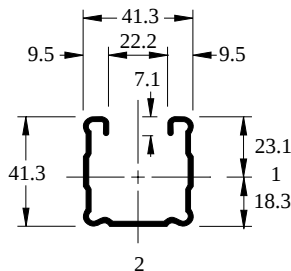
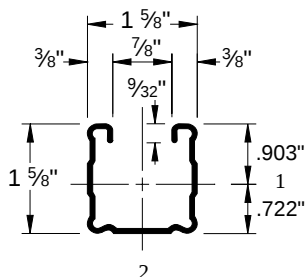
*Load limited by spot weld shear.

Notes:

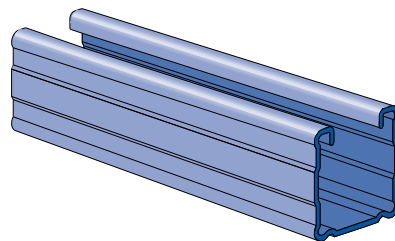
1. Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. Allowable uniformly distributed loads are listed for various simple spans, 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.
4. See page 61 for lateral bracing reduction charts.



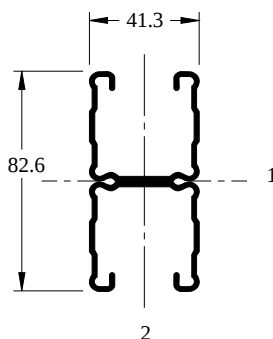
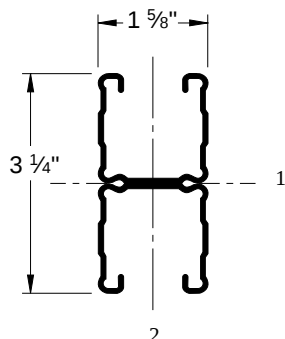
P1100



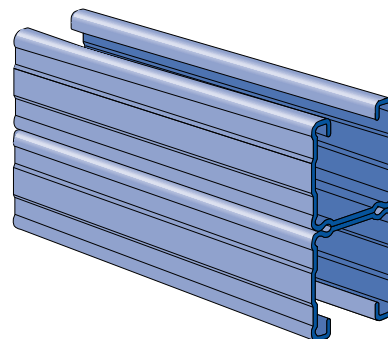
Wt/100 Ft: 142 Lbs (211 kg/100 m)
Allowable Moment 4,170 In-Lbs (470 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)



P1101



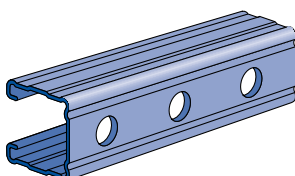
Wt/100 Ft: 284 Lbs (423 kg/100 m)
Allowable Moment 11,470 In-Lbs (1,300 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)



P1100 HS

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

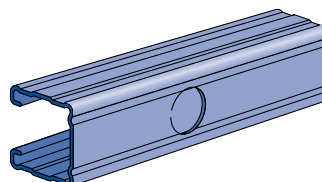
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P1100 KO

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

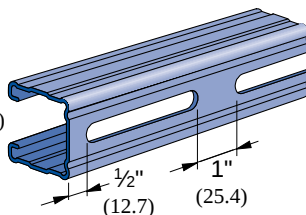
7/8" (22.2) Knockouts
6" (152.4) on Center



P1100 SL

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

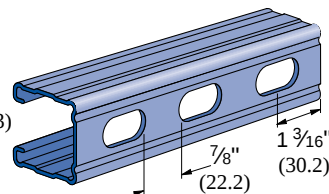
Slots are
3" (76.2) x 13/32" (10.3)
4" (101.6) on Center



P1100 T

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

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



Channel Nuts (Refer to Hardware Section for Details)



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

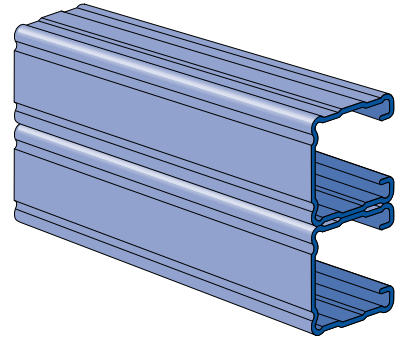
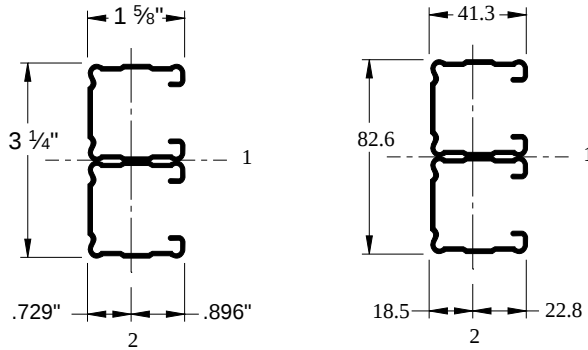


P3016-0632
P3016-0832
P3016-1024
P3016-1420

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

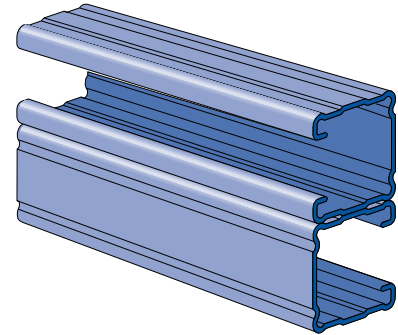
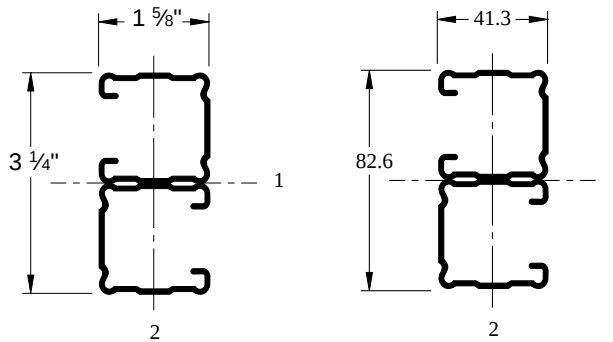
P1101 A

Wt/100 Ft: 284 Lbs (423 kg/100 m)
Allowable Moment 14,180 In-Lbs (1,600 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)



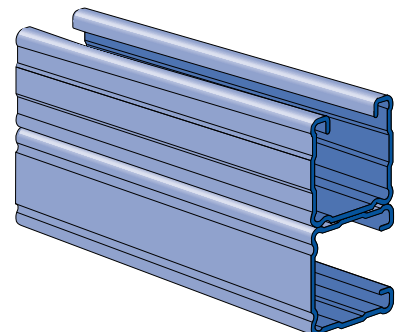
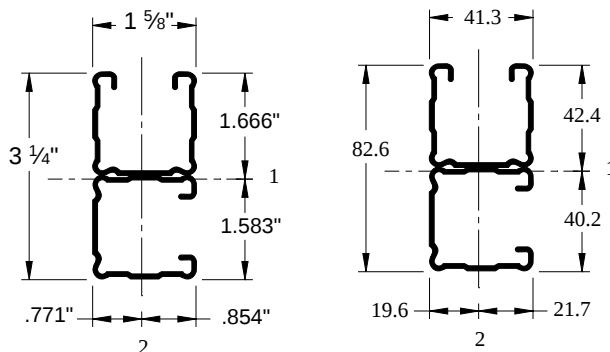
P1101 B

Wt/100 Ft: 284 Lbs (423 kg/100 m)
Allowable Moment 14,180 In-Lbs (1,600 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)



P1101 C

Wt/100 Ft: 284 Lbs (423 kg/100 m)
Allowable Moment 12,500 In-Lbs (1,410 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)



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



BEAM LOADING – P1100

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,390	0.06	1,390	1,390	1,390
36	930	0.13	930	930	720
48	700	0.23	700	610	410
60	560	0.36	520	390	260
72	460	0.51	360	270	180
84	400	0.70	270	200	130
96	350	0.91	200	150	100
108	310	1.15	160	120	80
120	280	1.42	130	100	70
144	230	2.05	90	70	50
168	200	2.79	70	50	30
192	170	3.65	50	40	30
216	150	4.62	40	30	NR
240	140	5.70	30	NR	NR

BEAM LOADING – P1101

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,850 *	0.03	1,850 *	1,850 *	1,850 *
36	1,850 *	0.07	1,850 *	1,850 *	1,850 *
48	1,850 *	0.13	1,850 *	1,850 *	1,850 *
60	1,530	0.20	1,530	1,530	1,300
72	1,270	0.28	1,270	1,270	900
84	1,090	0.39	1,090	990	660
96	960	0.50	960	760	510
108	850	0.64	800	600	400
120	760	0.79	650	490	320
144	640	1.13	450	340	220
168	550	1.54	330	250	170
192	480	2.01	250	190	130
216	420	2.55	200	150	100
240	380	3.15	160	120	80

COLUMN LOADING – P1100

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,770	8,120	7,450	6,540	5,660
36	2,410	6,650	5,660	4,480	3,520
48	2,040	5,240	4,140	3,040	2,390
60	1,690	4,050	3,040	2,270	1,830
72	1,440	3,140	2,390	1,830	1,480
84	1,260	2,560	1,980	1,530	1,240
96	1,120	2,170	1,700	1,310	1,060
108	1,000	1,880	1,480	1,140	**
120	910	1,670	1,310	**	*

COLUMN LOADING – P1101

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	5,050	18,820	18,500	17,980	17,360
36	4,890	18,050	17,360	16,280	15,050
48	4,670	17,020	15,880	14,170	12,320
60	4,420	15,780	14,170	11,850	9,530
72	4,120	14,390	12,320	9,530	6,950
84	3,800	12,910	10,450	7,350	5,100
96	3,460	11,380	8,630	5,630	3,910
108	3,100	9,870	6,950	4,450	3,090
120	2,770	8,420	5,630	3,600	**

ELEMENTS OF SECTION P1100/P1101

Parameter	P1100	P1101
Area of Section	0.417 In ²	0.834 In ²
Axis 1-1		
Moment of Inertia (I)	0.149 In ⁴	0.741 In ⁴
Section Modulus (S)	0.166 In ³	0.456 In ³
Radius of Gyration (r)	0.597 In	0.942 In
Axis 2-2		
Moment of Inertia (I)	0.183 In ⁴	0.366 In ⁴
Section Modulus (S)	0.225 In ³	0.451 In ³
Radius of Gyration (r)	0.662 In	0.662 In

Notes:

* Load limited by spot weld shear.

** $K L_r > 200$

NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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

BEAM LOADING – P1100 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	641	1	641	641	641
750	513	2	513	513	488
1,000	385	4	385	385	274
1,250	308	6	308	263	176
1,500	257	9	244	183	122
1,750	220	12	179	134	90
2,000	192	16	137	103	69
2,500	154	24	88	66	44
3,000	128	35	61	46	31
3,500	110	48	45	34	22
4,000	96	62	34	26	17
4,500	86	79	27	20	14
5,000	77	97	22	17	NR
6,000	64	140	15	11	NR

COLUMN LOADING – P1100 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,262	3,701	3,407	2,999	2,603
750	1,186	3,382	2,999	2,508	2,071
1,000	1,047	2,831	2,355	1,817	1,407
1,250	907	2,318	1,817	1,332	1,052
1,500	778	1,877	1,407	1,052	845
1,750	681	1,516	1,148	873	707
2,000	605	1,264	972	747	606
2,500	495	954	747	579	466
2,750	453	852	670	517	**

ELEMENTS OF SECTION
P1100/P1101 (METRIC)

Parameter	P1100	P1101
Area of Section	2.69 cm ²	5.38 cm ²
Axis 1-1		
Moment of Inertia (I)	6.2 cm ⁴	30.8 cm ⁴
Section Modulus (S)	2.72 cm ³	7.47 cm ³
Radius of Gyration (r)	1.5 cm	2.4 cm
Axis 2-2		
Moment of Inertia (I)	7.6 cm ⁴	15.2 cm ⁴
Section Modulus (S)	3.69 cm ³	7.39 cm ³
Radius of Gyration (r)	1.7 cm	1.7 cm

BEAM LOADING – P1101 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	839 *	1	839 *	839 *	839 *
750	839 *	1	839 *	839 *	839 *
1,000	839 *	2	839 *	839 *	839 *
1,250	839 *	3	839	839	839
1,500	705	5	705	705	607
1,750	604	7	604	604	446
2,000	529	9	529	512	341
2,500	423	13	423	328	218
3,000	352	19	303	227	152
3,500	302	26	223	167	111
4,000	264	34	171	128	85
4,500	235	44	135	101	67
5,000	211	54	109	82	55
6,000	176	77	76	57	38

COLUMN LOADING – P1101 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	2,291	8,545	8,403	8,174	7,902
750	2,259	8,390	8,174	7,828	7,425
1,000	2,192	8,065	7,699	7,130	6,490
1,250	2,109	7,666	7,130	6,323	5,459
1,500	2,013	7,205	6,490	5,459	4,419
1,750	1,906	6,696	5,808	4,590	3,441
2,000	1,790	6,153	5,110	3,757	2,634
2,500	1,538	5,022	3,757	2,428	1,686
2,750	1,403	4,462	3,135	2,006	1,393

Notes:

* Load limited by spot weld shear.

** $K L / r > 200$

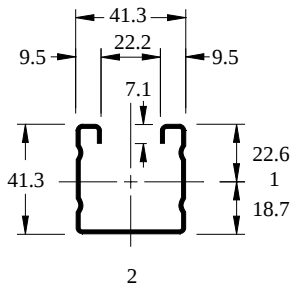
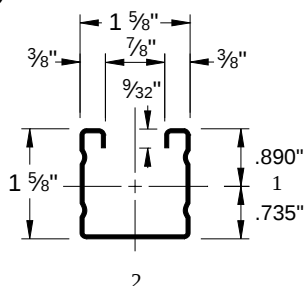
NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

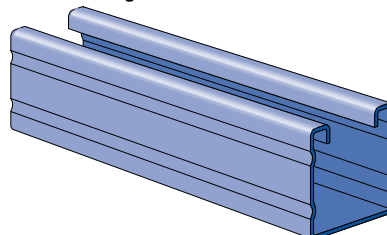
"T" Series ...85% "KO" Series .. 95%
 "SL" Series ...85% "HS" Series .. 90%



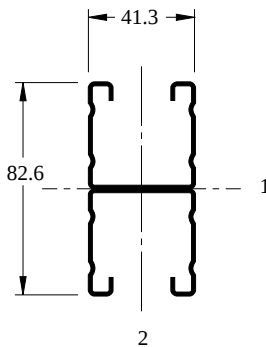
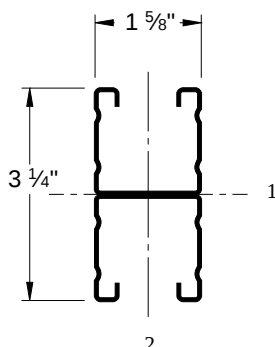
P2000



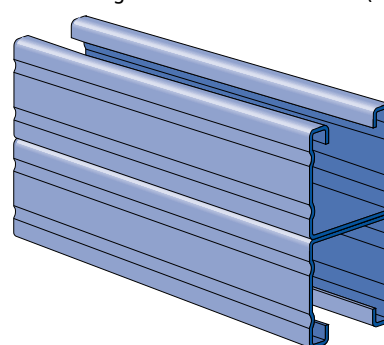
Wt/100 Ft: 116 Lbs (173 kg/100 m)
Allowable Moment 3,520 In-Lbs (570 N•m)
16 Gauge Nominal Thickness .060" (1.5mm)



P2001



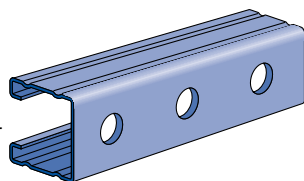
Wt/100 Ft: 232 Lbs (345 kg/100 m)
Allowable Moment 9,530 In-Lbs (1,080 N•m)
16 Gauge Nominal Thickness .060" (1.5mm)



P2000 HS

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

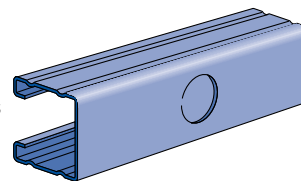
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P2000 KO

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

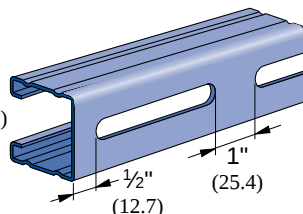
7/8" (22.2) Knockouts
6" (152.4) on Center



P2000 SL

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

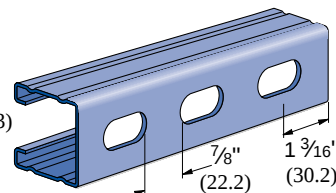
Slots are
3" (76.2) x 1 3/32" (10.3)
4" (101.6) on Center



P2000 T

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

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



Channel Nuts (Refer to Hardware Section for Details)



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

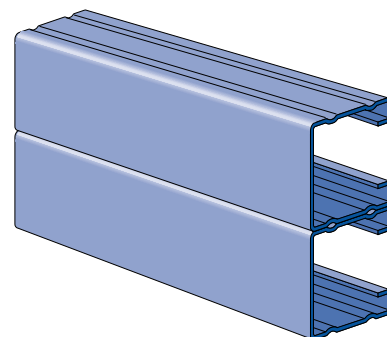
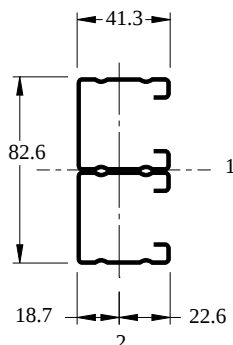
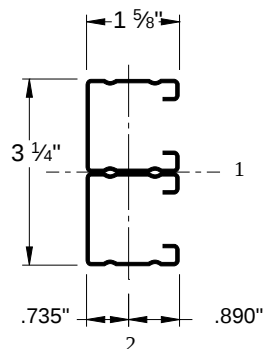


P3016-0632
P3016-0832
P3016-1024
P3016-1420

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

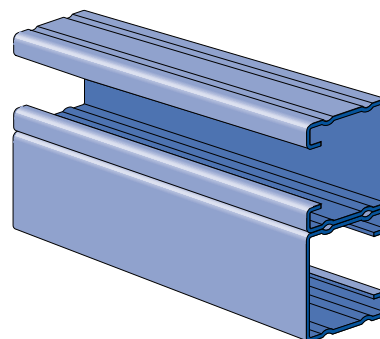
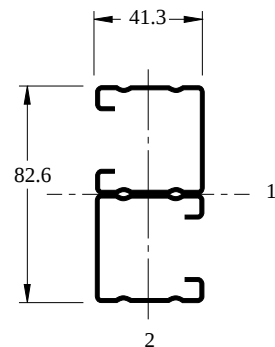
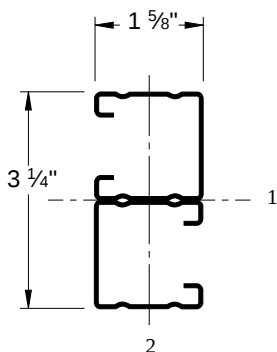
P2001 A

Wt/100 Ft: 232 Lbs (345 kg/100 m)
Allowable Moment 11,640 In-Lbs (1,320 N•m)
16 Gauge Nominal Thickness .060" (1.5mm)



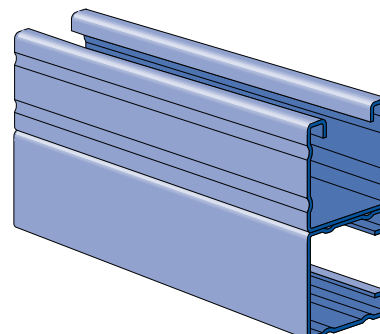
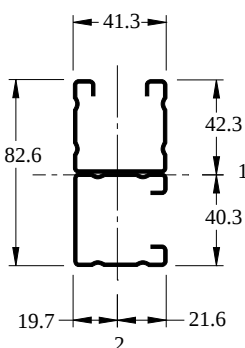
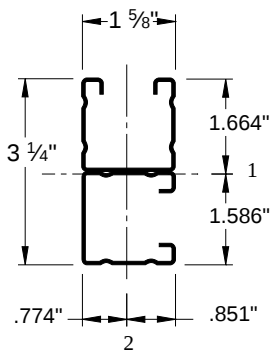
P2001 B

Wt/100 Ft: 232 Lbs (345 kg/100 m)
Allowable Moment 11,640 In-Lbs (1,320 N•m)
16 Gauge Nominal Thickness .060" (1.5mm)



P2001 C

Wt/100 Ft: 232 Lbs (345 kg/100 m)
Allowable Moment 10,340 In-Lbs (1,170 N•m)
16 Gauge Nominal Thickness .060" (1.5mm)



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



BEAM LOADING – P2000

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	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	600
48	590	0.23	590	510	340
60	470	0.36	430	330	220
72	390	0.52	300	230	150
84	340	0.71	220	170	110
96	290	0.92	170	130	80
108	260	1.17	130	100	70
120	230	1.44	110	80	50
144	200	2.08	80	60	40
168	170	2.83	60	40	30
192	150	3.70	40	30	20
216	130	4.68	30	30	NR
240	120	5.78	30	NR	NR

BEAM LOADING – P2001 CHANNEL

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,370 *	0.03	1,370 *	1,370 *	1,370 *
36	1,370 *	0.07	1,370 *	1,370 *	1,370 *
48	1,370 *	0.13	1,370 *	1,370 *	1,370 *
60	1,270	0.20	1,270	1,270	1,080
72	1,060	0.28	1,060	1,060	750
84	910	0.39	910	820	550
96	790	0.50	790	630	420
108	710	0.64	660	500	330
120	640	0.79	540	400	270
144	530	1.13	370	280	190
168	450	1.54	270	210	140
192	400	2.01	210	160	110
216	350	2.55	170	120	80
240	320	3.15	130	100	70

COLUMN LOADING – P2000

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,320	6,600	6,000	5,130	4,230
36	1,950	5,240	4,230	2,970	2,060
48	1,490	3,790	2,610	1,670	1,160
60	1,120	2,530	1,670	1,070	740
72	860	1,750	1,160	740	510
84	680	1,290	850	540	380
96	540	990	650	420	290
108	440	780	510	330	**
120	370	630	420	270	**

COLUMN LOADING – P2001

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	4,180	15,370	15,110	14,700	14,200
36	4,040	14,750	14,200	13,330	12,330
48	3,870	13,920	13,010	11,620	10,130
60	3,660	12,930	11,620	9,750	7,860
72	3,420	11,800	10,130	7,860	5,760
84	3,150	10,600	8,610	6,090	4,230
96	2,870	9,370	7,140	4,660	3,240
108	2,580	8,140	5,760	3,680	2,560
120	2,300	6,960	4,660	2,980	**

ELEMENTS OF SECTION P2000/P2001

Parameter	P2000	P2001
Area of Section	0.340 In ²	0.681 In ²
Axis 1-1		
Moment of Inertia (I)	0.124 In ⁴	0.616 In ⁴
Section Modulus (S)	0.140 In ³	0.379 In ³
Radius of Gyration (r)	0.605 In	0.951 In
Axis 2-2		
Moment of Inertia (I)	0.151 In ⁴	0.303 In ⁴
Section Modulus (S)	0.186 In ³	0.373 In ³
Radius of Gyration (r)	0.667 In	0.667 In

Notes:

* Load limited by spot weld shear.

** $K_L/r > 200$

NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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

BEAM LOADING – P2000 (METRIC)

Span mm	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load kg	Uniform Load mm	Span/180 kg	Span/240 kg	Span/360 kg
600	541	1	541	541	541
750	433	2	433	433	406
1,000	325	4	325	325	228
1,250	260	6	260	219	146
1,500	216	9	203	152	102
1,750	185	12	149	112	75
2,000	162	16	114	86	57
2,500	130	25	73	55	37
3,000	108	36	51	38	25
3,500	93	48	37	28	19
4,000	81	63	29	21	14
4,500	72	80	23	17	11
5,000	65	99	18	14	NR
6,000	54	142	13	NR	NR

BEAM LOADING – P2001 CHANNEL (METRIC)

Span mm	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load kg	Uniform Load mm	Span/180 kg	Span/240 kg	Span/360 kg
600	621 *	1	621 *	621 *	621 *
750	621 *	1	621 *	621 *	621 *
1,000	621 *	2	621 *	621 *	621 *
1,250	621 *	3	621	621	621
1,500	586	5	586	586	504
1,750	502	7	502	502	370
2,000	439	9	439	425	284
2,500	351	13	351	272	182
3,000	293	19	252	189	126
3,500	251	26	185	139	93
4,000	220	34	142	106	71
4,500	195	44	112	84	56
5,000	176	54	91	68	45
6,000	146	77	63	47	32

COLUMN LOADING – P2000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,056	3,010	2,746	2,358	1,958
750	981	2,722	2,358	1,859	1,389
1,000	830	2,191	1,697	1,125	781
1,250	657	1,658	1,125	720	500
1,500	520	1,183	781	500	347
1,750	417	869	574	367	255
2,000	341	666	439	281	195
2,500	237	426	281	180	125
2,750	201	352	232	149	**

COLUMN LOADING – P2001 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,896	6,981	6,867	6,682	6,463
750	1,869	6,856	6,682	6,403	6,078
1,000	1,814	6,595	6,300	5,840	5,324
1,250	1,746	6,273	5,840	5,189	4,490
1,500	1,667	5,901	5,324	4,490	3,646
1,750	1,579	5,490	4,772	3,785	2,850
2,000	1,483	5,051	4,206	3,107	2,184
2,500	1,276	4,136	3,107	2,012	1,398
2,750	1,165	3,680	2,599	1,663	1,155

ELEMENTS OF SECTION
P2000/P2001 (METRIC)

Parameter	P2000	P2001
Area of Section	2.19 cm ²	4.39 cm ²
Axis 1-1		
Moment of Inertia (I)	5.2 cm ⁴	25.6 cm ⁴
Section Modulus (S)	2.29 cm ³	6.21 cm ³
Radius of Gyration (r)	1.5 cm	2.4 cm
Axis 2-2		
Moment of Inertia (I)	6.3 cm ⁴	12.6 cm ⁴
Section Modulus (S)	3.05 cm ³	6.11 cm ³
Radius of Gyration (r)	1.7 cm	1.7 cm

Notes:

* Load limited by spot weld shear.

** $K L_r > 200$

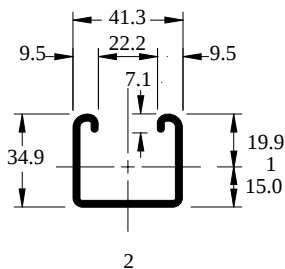
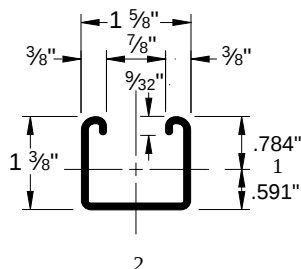
NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

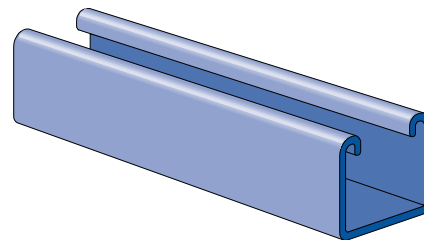
"T" Series ... 85% "KO" Series .. 95%
 "SL" Series ... 85% "HS" Series .. 90%



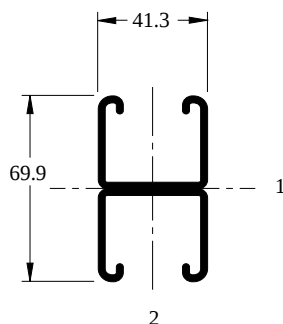
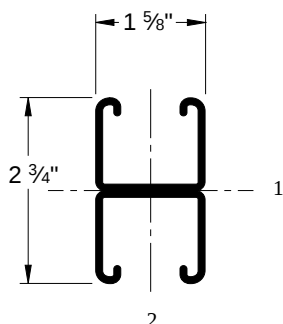
P3000



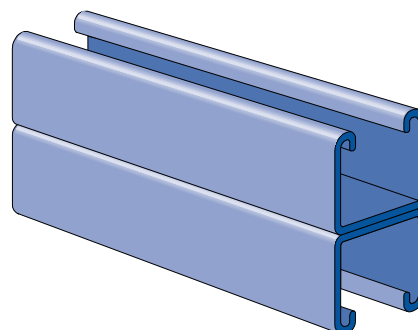
Wt/100 Ft: 170 Lbs (253 kg/100 m)
Allowable Moment 3,870 In-Lbs (440 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P3001



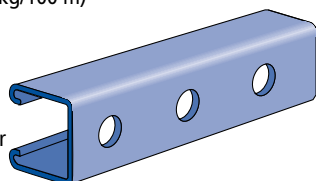
Wt/100 Ft: 340 Lbs (506 kg/100 m)
Allowable Moment 10,840 In-Lbs (1,220 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P3000 HS

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

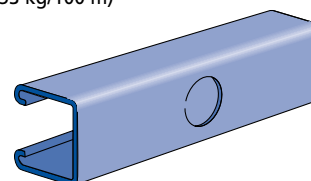
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P3000 KO

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

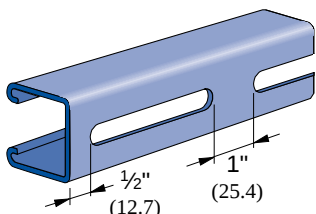
7/8" (22.2) Knockouts
6" (152.4) on Center



P3000 SL

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

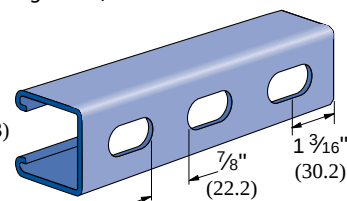
Slots are
3" (76.2) x 13/32" (10.3)
4" (101.6) on Center



P3000 T

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

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



Channel Nuts (Refer to Hardware Section for Details)



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

BEAM LOADING – P3000

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,290	0.07	1,290	1,290	1,290
36	860	0.15	860	860	590
48	650	0.26	650	500	330
60	520	0.41	420	320	210
72	430	0.59	290	220	150
84	370	0.80	220	160	110
96	320	1.04	170	120	80
108	290	1.32	130	100	70
120	260	1.63	110	80	50
144	220	2.34	70	60	40
168	180	3.19	50	40	30
192	160	4.17	40	30	NR
216	140	5.27	NR	NR	NR
240	130	6.51	NR	NR	NR

COLUMN LOADING – P3000

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,070	9,790	9,090	8,190	7,370
36	2,730	8,300	7,370	6,320	5,440
48	2,400	7,000	6,010	4,930	4,050
60	2,090	5,930	4,930	3,860	3,120
72	1,820	5,060	4,050	3,120	2,290
84	1,590	4,300	3,390	2,430	**
96	1,400	3,690	2,880	1,860	**
108	1,200	3,220	2,290	**	**
120	1,040	2,820	1,860	**	**

ELEMENTS OF SECTION
P3000/P3001

Parameter	P3000	P3001
Area of Section	0.503 In ²	1.007 In ²
Axis 1-1		
Moment of Inertia (I)	0.121 In ⁴	0.593 In ⁴
Section Modulus (S)	0.154 In ³	0.431 In ³
Radius of Gyration (r)	0.490 In	0.767 In
Axis 2-2		
Moment of Inertia (I)	0.205 In ⁴	0.411 In ⁴
Section Modulus (S)	0.253 In ³	0.506 In ³
Radius of Gyration (r)	0.639 In	0.639 In

BEAM LOADING – P3001

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	2,660 *	0.04	2,660 *	2,660 *	2,660 *
36	2,410	0.08	2,410	2,410	2,410
48	1,810	0.15	1,810	1,810	1,620
60	1,450	0.23	1,450	1,450	1,040
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	520	1.82	260	200	130
192	450	2.38	200	150	100
216	400	3.01	160	120	80
240	360	3.72	130	100	60

COLUMN LOADING – P3001

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	5,720	22,670	22,250	21,580	20,780
36	5,500	21,670	20,780	19,400	17,830
48	5,220	20,350	18,890	16,710	14,390
60	4,880	18,760	16,710	13,800	10,92
72	4,510	17,000	14,390	10,920	7,810
84	4,120	15,120	12,050	8,270	5,740
96	3,710	13,210	9,820	6,330	4,400
108	3,300	11,340	7,810	5,000	**
120	2,940	9,560	6,330	4,050	**

Notes:

* Load limited by spot weld shear.

** $KL_r > 200$

NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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



BEAM LOADING – P3000 (METRIC)

Span mm	Max Allowable Uniform Load kg	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kg	Span/240 kg	Span/360 kg
600	595	2	595	595	595
750	476	3	476	476	396
1,000	357	4	357	334	223
1,250	286	7	285	214	143
1,500	238	10	198	149	99
1,750	204	14	146	109	73
2,000	179	18	111	84	56
2,500	143	28	71	54	36
3,000	119	40	50	37	25
3,500	102	55	36	27	18
4,000	89	71	28	21	14
4,500	79	90	22	17	NR
5,000	71	111	18	NR	NR
6,000	60	160	NR	NR	NR

BEAM LOADING – P3001 (METRIC)

Span mm	Max Allowable Uniform Load kg	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kg	Span/240 kg	Span/360 kg
600	1207 *	1	1207 *	1207 *	1207 *
750	1207 *	1	1207	1207	1207
1,000	999	3	999	999	999
1,250	799	4	799	799	699
1,500	666	6	666	666	485
1,750	571	8	571	535	357
2,000	500	10	500	410	273
2,500	400	16	350	262	175
3,000	333	23	243	182	121
3,500	286	31	178	134	89
4,000	250	41	137	102	68
4,500	222	51	108	81	54
5,000	200	64	87	66	44
6,000	167	91	61	46	30

COLUMN LOADING – P3000 (METRIC)

Height mm	Maximum Unbraced Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,397	4,464	4,151	3,746	3,377
750	1,322	4,125	3,746	3,291	2,900
1,000	1,194	3,588	3,154	2,671	2,272
1,250	1,073	3,121	2,671	2,183	1,785
1,500	961	2,726	2,272	1,785	1,443
1,750	857	2,389	1,930	1,492	1,137
2,000	766	2,097	1,658	1,253	870
2,500	616	1,628	1,253	**	**
2,750	543	1,455	1,036	**	**

COLUMN LOADING – P3001 (METRIC)

Height mm	Maximum Unbraced Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	2,597	10,293	10,110	9,814	9,464
750	2,553	10,093	9,814	9,369	8,852
1,000	2,462	9,674	9,204	8,475	7,662
1,250	2,352	9,161	8,475	7,450	6,364
1,500	2,227	8,571	7,662	6,364	5,072
1,750	2,091	7,923	6,801	5,282	3,871
2,000	1,947	7,235	5,927	4,261	2,963
2,500	1,646	5,819	4,261	2,731	1,897
2,750	1,494	5,124	3,527	2,257	**

ELEMENTS OF SECTION P3000/P3001 (METRIC)

Parameter	P3000	P3001
Area of Section	3.25 cm ²	6.50 cm ²
Axis 1-1		
Moment of Inertia (I)	5.0 cm ⁴	24.7 cm ⁴
Section Modulus (S)	2.52 cm ³	7.06 cm ³
Radius of Gyration (r)	1.2 cm	1.9 cm
Axis 2-2		
Moment of Inertia (I)	8.5 cm ⁴	17.1 cm ⁴
Section Modulus (S)	4.15 cm ³	8.29 cm ³
Radius of Gyration (r)	1.6 cm	1.6 cm

Notes:

* Load limited by spot weld shear.

** $K L / r > 200$

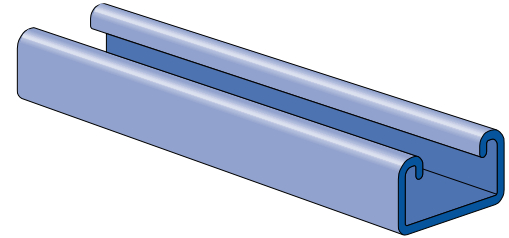
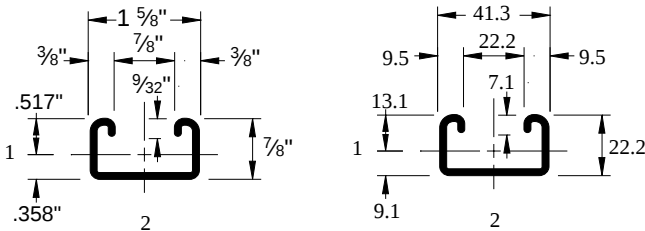
NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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

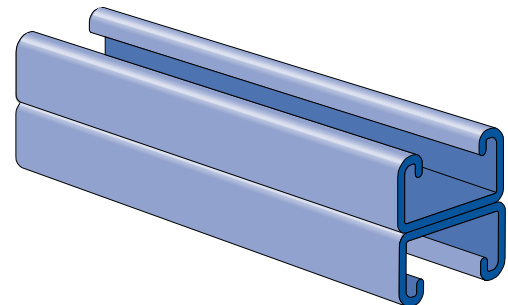
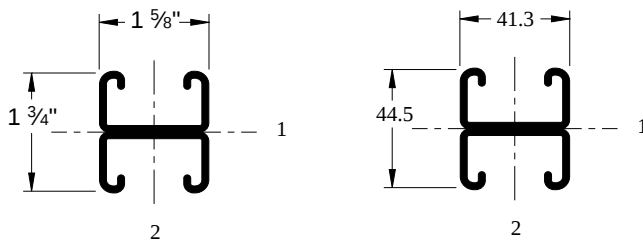
P3300

Wt/100 Ft: 135 Lbs (201 kg/100 m)
Allowable Moment 1,810 In-Lbs (200 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P3301

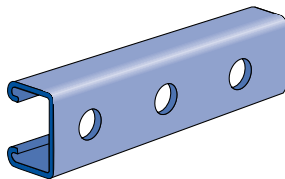
Wt/100 Ft: 270 Lbs (402 kg/100 m)
Allowable Moment 5,080 In-Lbs (570 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P3300 HS

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

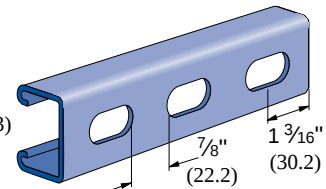
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P3300 T

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

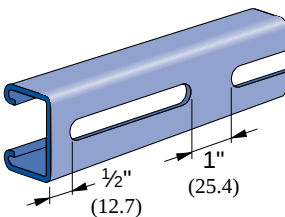
Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (51) on Center



P3300 SL

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

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



Channel Nuts (Refer to Hardware Section for Details)



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



P4006T1420
P4008T
P4010T



P4012S
P4023S



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; Standard Lengths: 10' & 20'

BEAM LOADING – P3300

Span In	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load	Uniform	Span/180	Span/240	Span/360
	Lbs	Load In	Lbs	Lbs	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	0.90	90	70	40
84	170	1.22	70	50	30
96	150	1.59	50	40	30
108	130	2.02	40	30	20
120	120	2.49	30	20	20

BEAM LOADING – P3301

Span In	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load	Uniform	Span/180	Span/240	Span/360
	Lbs	Load In	Lbs	Lbs	Lbs
24	1,660 *	0.06	1,660 *	1,660 *	1,660 *
36	1,130	0.13	1,130	1,130	860
48	850	0.23	850	730	480
60	680	0.36	620	460	310
72	560	0.53	430	320	210
84	480	0.72	320	240	160
96	420	0.93	240	180	120
108	380	1.18	190	140	100
120	340	1.46	150	120	80

COLUMN LOADING – P3300

Height In	Maximum Unbraced Allowable Load	Maximum Column Load Applied at C.G.			
	at Slot Face	K = 0.65	K = 0.80	K = 1.0	K = 1.2
	Lbs	Lbs	Lbs	Lbs	Lbs
24	2,120	7,710	7,190	6,410	5,440
36	1,760	6,520	5,440	4,030	2,830
48	1,380	4,960	3,590	2,290	1,590
60	1,060	3,480	2,290	1,470	**
72	840	2,410	1,590	**	**
84	KL/r>200	1,770	**	**	**

COLUMN LOADING – P3301

Height In	Maximum Unbraced Allowable Load	Maximum Column Load Applied at C.G.			
	at Slot Face	K = 0.65	K = 0.80	K = 1.0	K = 1.2
	Lbs	Lbs	Lbs	Lbs	Lbs
24	4,130	17,400	16,820	15,900	14,840
36	3,810	16,020	14,840	13,070	11,190
48	3,420	14,270	12,450	9,930	7,540
60	3,000	12,290	9,930	6,970	4,840
72	2,590	10,250	7,540	4,840	3,360
84	2,200	8,260	5,550	3,550	**
96	1,890	6,440	4,250	**	**
108	1,630	5,090	3,360	**	**
120	KL/r>200	4,120	**	**	**

**ELEMENTS OF SECTION
P3300/P3301**

Parameter	P3300	P3301
Area of Section	0.398 In ²	0.797 In ²
Axis 1-1		
Moment of Inertia (I)	0.037 In ⁴	0.177 In ⁴
Section Modulus (S)	0.072 In ³	0.202 In ³
Radius of Gyration (r)	0.306 In	0.471 In
Axis 2-2		
Moment of Inertia (I)	0.145 In ⁴	0.289 In ⁴
Section Modulus (S)	0.178 In ³	0.356 In ³
Radius of Gyration (r)	0.603 In	0.603 In

Notes:

* Load limited by spot weld shear.

** $KL/r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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

BEAM LOADING – P3300 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	278	2	278	278	189
750	223	4	223	182	121
1,000	167	7	136	102	68
1,250	134	11	87	65	44
1,500	111	15	61	45	30
1,750	95	21	45	33	22
2,000	84	27	34	26	17
2,500	67	43	22	16	11
3,000	56	61	15	11	8

BEAM LOADING – P3301 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	753 *	1	753 *	753 *	753 *
750	624	2	624	624	580
1,000	468	4	468	468	326
1,250	375	6	375	313	209
1,500	312	9	290	217	145
1,750	268	12	213	160	106
2,000	234	16	163	122	82
2,500	187	25	104	78	52
3,000	156	36	72	54	36

COLUMN LOADING – P3300 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	968	3,512	3,282	2,939	2,509
750	891	3,263	2,939	2,401	1,875
1,000	747	2,761	2,222	1,547	1,074
1,250	608	2,178	1,547	990	688
1,500	491	1,627	1,074	688	**
1,750	403	1,196	789	**	**

COLUMN LOADING – P3301 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,878	7,911	7,654	7,247	6,778
750	1,811	7,631	7,247	6,653	5,99
1,000	1,680	7,058	6,439	5,532	4,595
1,250	1,533	6,385	5,532	4,364	3,262
1,500	1,378	5,649	4,595	3,262	2,265
1,750	1,223	4,887	3,690	2,397	1,664
2,000	1,072	4,135	2,867	1,835	**
2,500	831	2,780	1,835	**	**
2,750	738	2,297	1,517	**	**

ELEMENTS OF SECTION
P3300/P3301 (METRIC)

Parameter	P3300	P3301
Area of Section	2.57 cm ²	5.14 cm ²
Axis 1-1		
Moment of Inertia (I)	1.5 cm ⁴	7.4 cm ⁴
Section Modulus (S)	1.18 cm ³	3.31 cm ³
Radius of Gyration (r)	0.8 cm	1.2 cm
Axis 2-2		
Moment of Inertia (I)	6.0 cm ⁴	12.0 cm ⁴
Section Modulus (S)	2.92 cm ³	5.83 cm ³
Radius of Gyration (r)	1.5 cm	1.5 cm

Notes:

* Load limited by spot weld shear.

** $K L_r > 200$

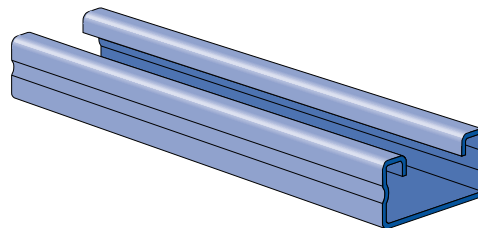
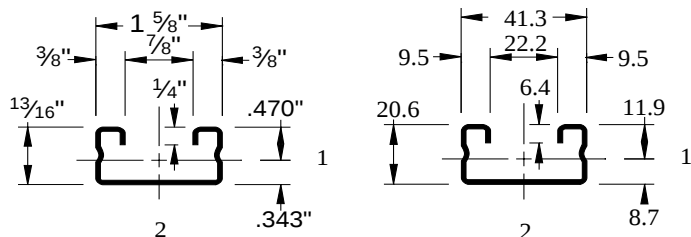
- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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



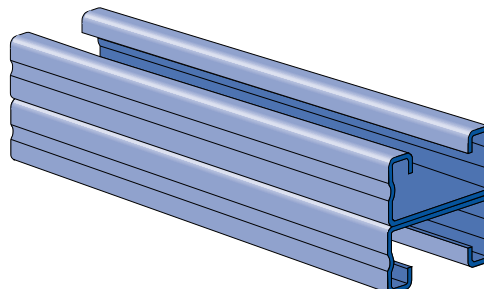
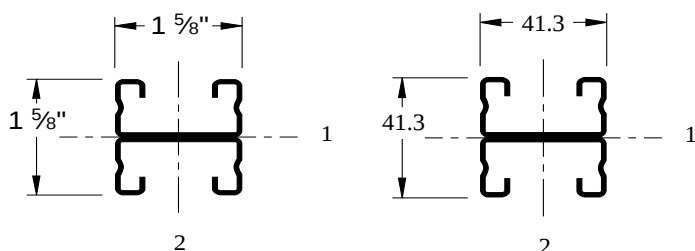
P4000

Wt/100 Ft: 82 Lbs (122 kg/100 m)
Allowable Moment 1,210 In-Lbs (140 N•m)
16 Gauge Nominal Thickness .060" (1.5mm)



P4001

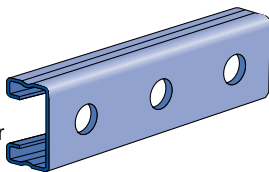
Wt/100 Ft: 164 Lbs (244 kg/100 m)
Allowable Moment 3,140 In-Lbs (350 N•m)
16 Gauge Nominal Thickness .060" (1.5mm)



P4000 HS

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

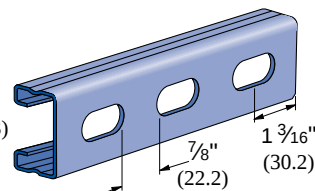
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P4000 T

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

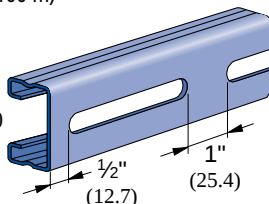
Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (51) on Center



P4000 SL

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

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



Channel Nuts (Refer to Hardware Section for Details)



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



P4006T1420
P4008T
P4010T



P4012S
P4023S



P4012
P4023



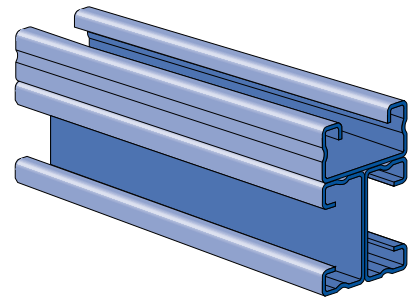
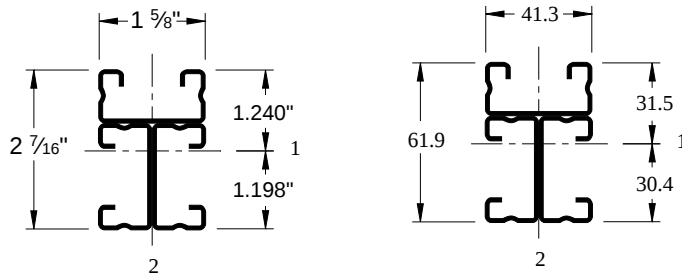
P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3013



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

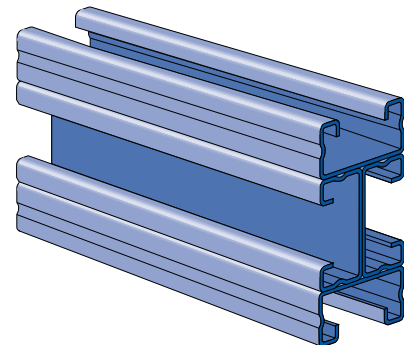
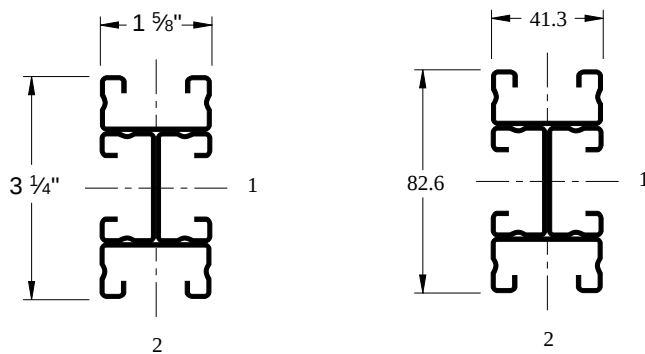
P4003

Wt/100 Ft: 246 Lbs (366 kg/100 m)
 Allowable Moment 8,450 In-Lbs (950 N•m)
 16 Gauge Nominal Thickness .060" (1.5mm)



P4004

Wt/100 Ft: 328 Lbs (488 kg/100 m)
 Allowable Moment 13,380 In-Lbs (1,510 N•m)
 16 Gauge Nominal Thickness .060" (1.5mm)



BEAM LOADING – P4000

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	400	0.11	400	380	250
36	270	0.24	220	170	110
48	200	0.43	130	90	60
60	160	0.67	80	60	40
72	130	0.96	60	40	30
84	110	1.31	40	30	20
96	100	1.71	30	20	20
108	90	2.16	20	20	10
120	80	2.67	20	20	10

BEAM LOADING – P4001

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	690 *	0.06	690 *	690 *	690 *
36	690 *	0.14	690 *	690 *	490
48	520	0.25	520	410	280
60	420	0.40	350	260	180
72	350	0.57	250	180	120
84	300	0.78	180	140	90
96	260	1.01	140	100	70
108	230	1.28	110	80	50
120	210	1.58	90	70	40

COLUMN LOADING – P4000

Height In	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	1,420	4,480	4,000	3,320	2,640
36	1,110	3,410	2,640	1,760	1,220
48	810	2,320	1,540	990	690
60	600	1,500	990	630	**
72	470	1,040	690	**	**

COLUMN LOADING – P4001

Height In	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,660	10,270	9,950	9,460	8,800
36	2,430	9,540	8,800	7,710	6,550
48	2,160	8,450	7,320	5,780	4,320
60	1,880	7,230	5,780	3,990	2,770
72	1,600	5,970	4,320	2,770	1,920
84	1,350	4,760	3,180	2,030	**
96	1,150	3,680	2,430	**	**
108	980	2,910	1,920	**	**

ELEMENTS OF SECTION P4000/P4001

Parameter	P4000	P4001
Area of Section	0.239 In ²	0.478 In ²
Axis 1-1		
Moment of Inertia (I)	0.023 In ⁴	0.101 In ⁴
Section Modulus (S)	0.048 In ³	0.125 In ³
Radius of Gyration (r)	0.308 In	0.460 In
Axis 2-2		
Moment of Inertia (I)	0.091 In ⁴	0.182 In ⁴
Section Modulus (S)	0.112 In ³	0.224 In ³
Radius of Gyration (r)	0.617 In	0.617 In

Notes:

* Load limited by spot weld shear.

** $K_L/r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Reduce Beam Load Values as Follows:

"T" Series ... 85% "SL" Series .. 85%
"HS" Series ... 90%

BEAM LOADING – P4000 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	185	3	185	177	118
750	148	4	148	113	75
1,000	111	7	85	64	42
1,250	89	11	54	41	27
1,500	74	16	38	28	19
1,750	64	22	28	21	14
2,000	56	29	21	16	11
2,500	45	46	14	10	7
3,000	37	66	9	7	5

BEAM LOADING – P4001 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	313 *	2	313 *	313 *	313 *
750	313 *	2	313 *	313 *	313 *
1,000	290	4	290	279	186
1,250	232	7	232	179	119
1,500	193	10	*310	124	83
1,750	166	13	122	91	61
2,000	145	17	93	70	47
2,500	116	27	60	45	30
3,000	97	39	41	31	21

COLUMN LOADING – P4000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	648	2,046	1,835	1,531	1,228
750	580	1,816	1,531	1,155	822
1,000	462	1,403	1,036	666	462
1,250	356	1,008	666	426	296
1,500	280	701	462	296	**

COLUMN LOADING – P4001 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,207	4,669	4,527	4,314	4,023
750	1,163	4,515	4,314	3,945	3,536
1,000	1,070	4,197	3,812	3,251	2,676
1,250	967	3,778	3,251	2,535	1,866
1,500	861	3,323	2,676	1,866	1,296
1,750	757	2,855	2,126	1,371	952
2,000	657	2,396	1,640	1,050	**
2,500	503	1,590	1,050	**	**

ELEMENTS OF SECTION
P4000/P4001 (METRIC)

Parameter	P4000	P4001
Area of Section	1.54 cm ²	3.08 cm ²
Axis 1-1		
Moment of Inertia (I)	1.0 cm ⁴	4.2 cm ⁴
Section Modulus (S)	0.79 cm ³	2.05 cm ³
Radius of Gyration (r)	0.8 cm	1.2 cm
Axis 2-2		
Moment of Inertia (I)	3.8 cm ⁴	7.6 cm ⁴
Section Modulus (S)	1.84 cm ³	3.67 cm ³
Radius of Gyration (r)	1.6 cm	1.6 cm

Notes:

* Load limited by spot weld shear.

** $K L / r > 200$

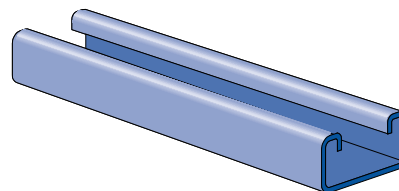
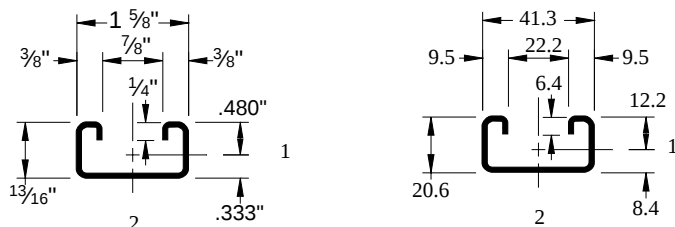
- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Reduce Beam Load Values as Follows:

"T" Series ...85% "SL" Series .. 85%
"HS" Series ...90%



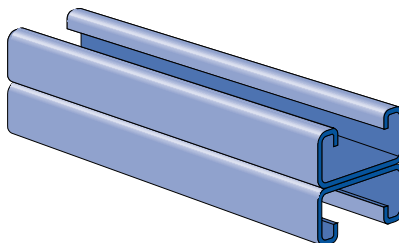
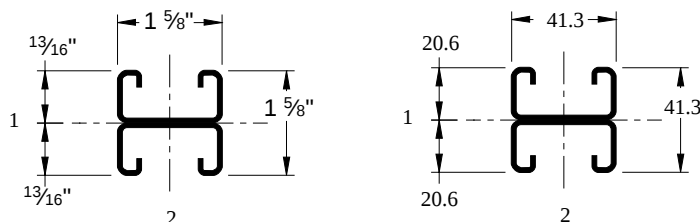
P4100

Wt/100 Ft: 97 Lbs (144 kg/100 m)
Allowable Moment 1,330 In-Lbs (150 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)



P4101

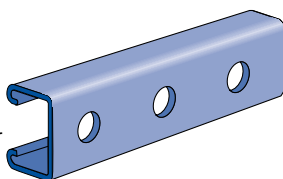
Wt/100 Ft: 194 Lbs (289 kg/100 m)
Allowable Moment 3,550 In-Lbs (400 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)



P4100 HS

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

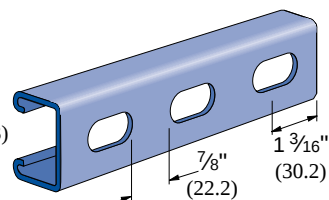
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P4100 T

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

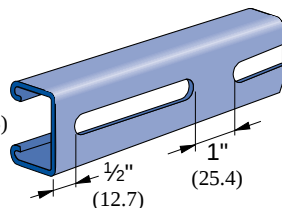
Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (51) on Center



P4100 SL

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

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



Channel Nuts (Refer to Hardware Section for Details)



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



P4006T1420
P4008T
P4010T



P4012S
P4023S



P4012
P4023



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



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

BEAM LOADING – P4100

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	440	0.11	440	410	270
36	300	0.24	240	180	120
48	220	0.43	140	100	70
60	180	0.68	90	70	40
72	150	0.98	60	50	30
84	130	1.33	40	30	20
96	110	1.74	30	30	20
108	100	2.20	30	20	10
120	90	2.71	20	20	10

BEAM LOADING – P4101

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	910 *	0.06	910 *	910 *	910 *
36	790	0.14	790	790	550
48	590	0.25	590	470	310
60	470	0.40	400	300	200
72	390	0.57	280	210	140
84	340	0.77	200	150	100
96	300	1.01	160	120	80
108	260	1.28	120	90	60
120	240	1.58	100	70	50

COLUMN LOADING – P4100

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	1,620	5,670	5,210	4,530	3,810
36	1,300	4,620	3,810	2,770	1,940
48	1,000	3,450	2,450	1,570	1,090
60	760	2,380	1,570	**	**
72	600	1,650	1,090	**	**

COLUMN LOADING – P4101

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,040	12,440	11,980	11,250	10,420
36	2,780	11,350	10,420	9,050	7,620
48	2,460	9,980	8,580	6,680	4,900
60	2,130	8,460	6,680	4,520	3,140
72	1,800	6,910	4,900	3,140	2,180
84	1,520	5,440	3,600	2,310	**
96	1,290	4,180	2,760	**	**

ELEMENTS OF SECTION
P4100/P4101

Parameter	P4100	P4101
Area of Section	0.287 In ²	0.574 In ²
Axis 1-1		
Moment of Inertia (I)	0.025 In ⁴	0.114 In ⁴
Section Modulus (S)	0.053 In ³	0.141 In ³
Radius of Gyration (r)	0.298 In	0.447 In
Axis 2-2		
Moment of Inertia (I)	0.106 In ⁴	0.212 In ⁴
Section Modulus (S)	0.131 In ³	0.261 In ³
Radius of Gyration (r)	0.609 In	0.609 In

Notes:

* Load limited by spot weld shear.

** $K L_r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

"T" Series ... 85% "SL" Series .. 85%
 "HS" Series ... 90%



BEAM LOADING – P4100 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	205	3	205	192	128
750	164	4	164	123	82
1,000	123	7	92	69	46
1,250	98	12	59	44	30
1,500	82	17	41	31	21
1,750	70	23	30	23	15
2,000	61	30	23	17	12
2,500	49	46	15	11	7
3,000	41	67	10	8	5

BEAM LOADING – P4101 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	413 *	2	413 *	413 *	413 *
750	413 *	2	413	413	373
1,000	327	4	327	315	210
1,250	262	7	262	202	134
1,500	218	10	187	140	93
1,750	187	13	137	103	69
2,000	163	17	105	79	53
2,500	131	27	67	50	34
3,000	109	39	47	35	23

COLUMN LOADING – P4100 (METRIC)

Height mm	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	737	2,580	2,383	2,079	1,759
750	669	2,365	2,079	1,679	1,294
1,000	552	1,946	1,547	1,058	735
1,250	442	1,515	1,058	677	470
1,500	354	1,113	735	470	**

COLUMN LOADING – P4101 (METRIC)

Height mm	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,384	5,657	5,454	5,133	4,766
750	1,329	5,435	5,133	4,668	4,157
1,000	1,220	4,984	4,502	3,803	3,095
1,250	1,101	4,459	3,803	2,922	2,116
1,500	978	3,892	3,095	2,116	1,470
1,750	856	3,314	2,426	1,555	1,080
2,000	743	2,753	1,860	1,190	**

ELEMENTS OF SECTION P4100/P4101

Parameter	P4100	P4101
Area of Section	1.85 cm ²	3.70 cm ²
Axis 1-1		
Moment of Inertia (I)	1.0 cm ⁴	4.7 cm ⁴
Section Modulus (S)	0.87 cm ³	2.31 cm ³
Radius of Gyration (r)	0.8 cm	1.1 cm
Axis 2-2		
Moment of Inertia (I)	4.4 cm ⁴	8.8 cm ⁴
Section Modulus (S)	2.15 cm ³	4.28 cm ³
Radius of Gyration (r)	1.5 cm	1.5 cm

Notes:

* Load limited by spot weld shear.

** $K_L/r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

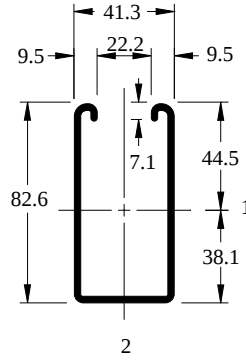
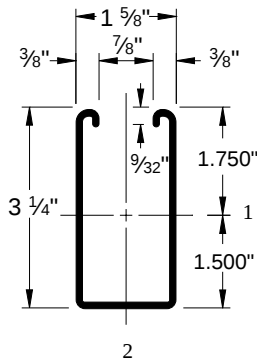
"T" Series ... 85% "SL" Series .. 85%
"HS" Series ... 90%

P5000 & P5001 Channels

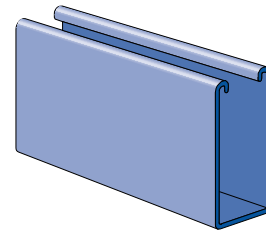
UNISTRUT

Pierced channels are found on pages 60 and 61.

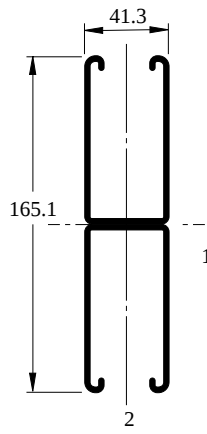
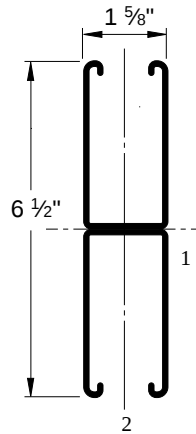
P5000



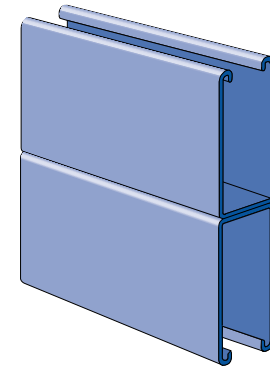
Wt/100 Ft: 305 Lbs (454 kg/100 m)
Allowable Moment 15,790 In-Lbs (1,780 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P5001



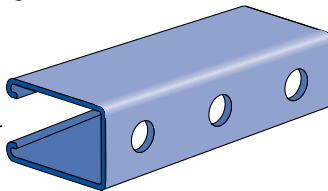
Wt/100 Ft: 610 Lbs (908 kg/100 m)
Allowable Moment 33,910 In-Lbs (3,830 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P5000 HS

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

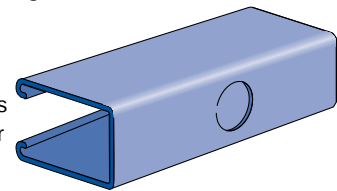
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P5000 KO

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

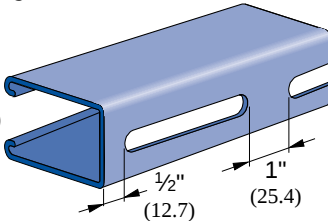
7/8" (22.2) Knockouts
6" (152.4) on Center



P5000 SL

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

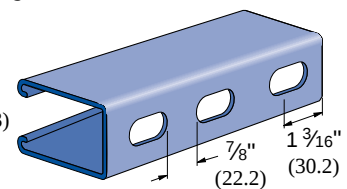
Slots are
3" (76.2) x 13/32" (10.3)
4" (101.6) on Center



P5000 T

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

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



Channel Nuts (Refer to Hardware Section for Details)



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; Standard Lengths: 10' & 20'



BEAM LOADING – P5000

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	5,260	0.03	5,260	5,260	5,260
36	3,510	0.07	3,510	3,510	3,510
48	2,630	0.12	2,630	2,630	2,630
60	2,110	0.18	2,110	2,110	1,920
72	1,750	0.26	1,750	1,750	1,330
84	1,500	0.36	1,500	1,470	980
96	1,320	0.47	1,320	1,130	750
108	1,170	0.59	1,170	890	590
120	1,050	0.73	960	720	480
144	880	1.05	670	500	330
168	750	1.43	490	370	250
192	660	1.87	380	280	190
216	580	2.37	300	220	150
240	530	2.92	240	180	120

BEAM LOADING – P5001

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	6,170 *	0.01	6,170 *	6,170 *	6,170 *
36	6,170 *	0.03	6,170 *	6,170 *	6,170 *
48	5,650	0.05	5,650	5,650	5,650
60	4,520	0.08	4,520	4,520	4,520
72	3,770	0.11	3,770	3,770	3,770
84	3,230	0.15	3,230	3,230	3,230
96	2,830	0.20	2,830	2,830	2,830
108	2,510	0.25	2,510	2,510	2,510
120	2,260	0.31	2,260	2,260	2,260
144	1,880	0.45	1,880	1,880	1,690
168	1,610	0.61	1,610	1,610	1,240
192	1,410	0.79	1,410	1,410	950
216	1,260	1.00	1,260	1,130	750
240	1,130	1.24	1,130	910	610

COLUMN LOADING – P5000

Height In	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	4,430	13,050	12,000	11,180	9,590
36	4,030	11,380	9,590	7,390	5,560
48	3,400	8,830	6,730	4,700	3,560
60	2,780	6,580	4,700	3,360	2,620
72	2,330	4,890	3,560	2,620	2,090
84	2,010	3,860	2,870	2,160	1,750
96	1,770	3,180	2,410	1,850	1,510
108	1,590	2,710	2,090	1,620	1,330
120	1,440	2,370	1,850	1,450	**

COLUMN LOADING – P5001

Height In	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	8,360	30,190	29,820	29,220	28,500
36	8,230	29,300	28,500	27,220	25,740
48	8,050	28,100	26,750	24,660	22,320
60	7,810	26,630	24,660	23,090	19,770
72	7,530	24,930	22,320	19,770	15,800
84	7,340	23,070	21,110	16,450	12,100
96	6,950	22,440	18,430	13,300	9,260
108	6,510	20,270	15,800	10,540	7,320
120	6,010	18,100	13,300	8,540	**

ELEMENTS OF SECTION P5000/P5001

Parameter	P5000	P5001
Area of Section	0.897 In ²	1.794 In ²
Axis 1-1		
Moment of Inertia (I)	1.099 In ⁴	5.578 In ⁴
Section Modulus (S)	0.628 In ³	1.716 In ³
Radius of Gyration (r)	1.107 In	1.864 In
Axis 2-2		
Moment of Inertia (I)	0.359 In ⁴	0.719 In ⁴
Section Modulus (S)	0.442 In ³	0.884 In ³
Radius of Gyration (r)	0.695 In	0.695 In

Notes:

* Load limited by spot weld shear.

** $K_L/r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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

BEAM LOADING – P5000 (METRIC)

Span mm	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load kg	Uniform Load mm	Span/180 kg	Span/240 kg	Span/360 kg
600	2426	1	2426	2426	2426
750	1941	1	1941	1941	1941
1,000	1456	2	1456	1456	1456
1,250	1165	3	1165	1165	1165
1,500	971	4	971	971	900
1,750	832	6	832	832	661
2,000	728	8	728	728	506
2,500	582	12	582	486	324
3,000	485	18	450	337	225
3,500	416	24	330	248	165
4,000	364	32	253	190	127
4,500	324	40	200	150	100
5,000	291	50	162	121	81
6,000	243	72	112	84	56

BEAM LOADING – P5001 (METRIC)

Span mm	Max Allowable	Defl. at	Uniform Loading at Deflection		
	Uniform Load kg	Uniform Load mm	Span/180 kg	Span/240 kg	Span/360 kg
600	2799 *	0	2799 *	2799 *	2799 *
750	2799 *	0	2799 *	2799 *	2799 *
1,000	2799 *	1	2799	2799	2799
1,250	2500	1	2500	2500	2500
1,500	2084	2	2084	2084	2084
1,750	1786	3	1786	1786	1786
2,000	1563	3	1563	1563	1563
2,500	1250	5	1250	1250	1250
3,000	1042	8	1042	1042	1042
3,500	893	10	893	893	839
4,000	781	14	781	781	642
4,500	695	17	695	695	507
5,000	625	21	625	616	411
6,000	521	30	521	428	285

COLUMN LOADING – P5000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	2,015	5,948	5,485	5,130	4,418
750	1,959	5,445	5,130	4,244	3,426
1,000	1,752	4,831	3,961	2,939	2,184
1,250	1,513	3,892	2,939	2,049	1,560
1,500	1,281	3,056	2,184	1,560	1,214
1,750	1,105	2,379	1,725	1,260	999
2,000	971	1,929	1,424	1,061	854
2,500	784	1,393	1,061	815	668
2,750	718	1,225	945	733	603

COLUMN LOADING – P5001 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	3,795	13,703	13,540	13,276	12,959
750	3,769	13,525	13,276	12,873	12,397
1,000	3,714	13,150	12,722	12,043	11,263
1,250	3,642	12,683	12,043	11,055	10,592
1,500	3,554	12,134	11,263	10,592	9,110
1,750	3,450	11,516	10,406	9,360	7,624
2,000	3,400	10,842	10,104	8,115	6,208
2,500	3,113	9,980	8,115	5,756	3,997
2,750	2,947	9,173	7,141	4,757	3,303

ELEMENTS OF SECTION
P5000/P5001 (METRIC)

Parameter	P5000	P5001
Area of Section	5.79 cm ²	11.57 cm ²
Axis 1-1		
Moment of Inertia (I)	45.7 cm ⁴	232.2 cm ⁴
Section Modulus (S)	10.29 cm ³	28.12 cm ³
Radius of Gyration (r)	2.8 cm	4.7 cm
Axis 2-2		
Moment of Inertia (I)	14.9 cm ⁴	29.9 cm ⁴
Section Modulus (S)	7.24 cm ³	14.49 cm ³
Radius of Gyration (r)	1.8 cm	1.8 cm

Notes:

* Load limited by spot weld shear.

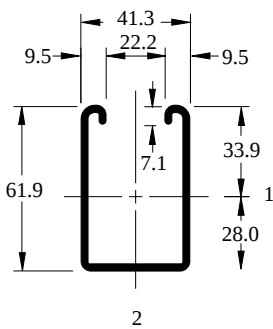
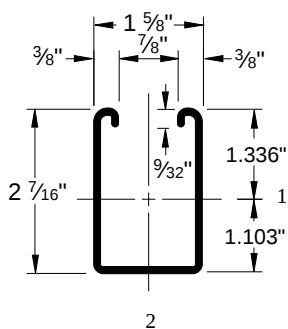
** $K L_r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

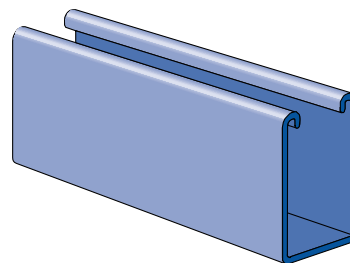
"T" Series ... 85% "KO" Series .. 95%
 "SL" Series ... 85% "HS" Series .. 90%



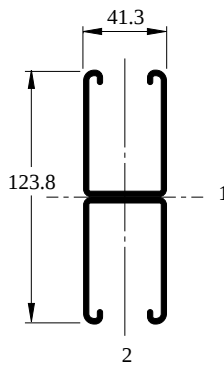
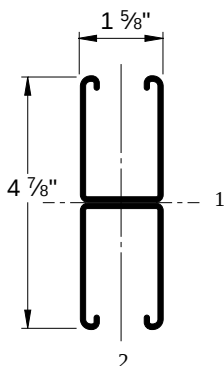
P5500



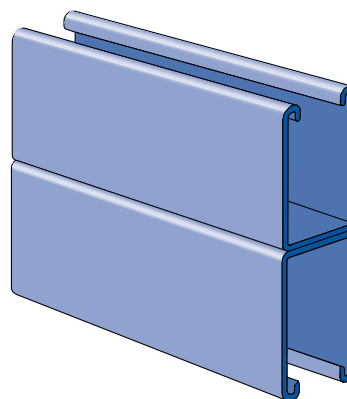
Wt/100 Ft: 247 Lbs (368 kg/100 m)
Allowable Moment 9,830 In-Lbs (1,110 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P5501



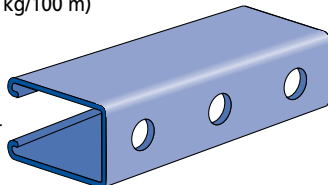
Wt/100 Ft: 494 Lbs (735 kg/100 m)
Allowable Moment 29,000 In-Lbs (3,280 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



P5500 HS

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

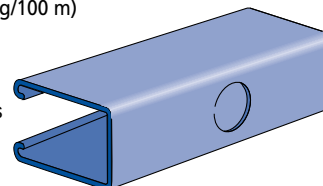
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



P5500 KO

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

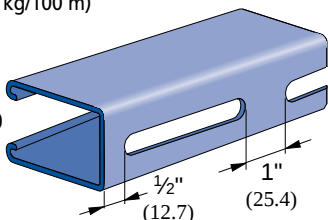
7/8" (22.2) Knockouts
6" (152.4) on Center



P5500 SL

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

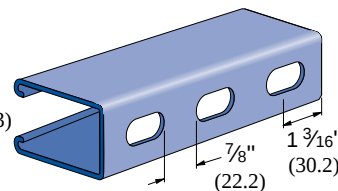
Slots are
3" (76.2) x 13/32" (10.3)
4" (101.6) on Center



P5500 T

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

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



Channel Nuts (Refer to Hardware Section for Details)



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

BEAM LOADING – P5500

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	3,280	0.04	3,280	3,280	3,280
36	2,190	0.09	2,190	2,190	2,190
48	1,640	0.15	1,640	1,640	1,430
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	540	360
108	730	0.77	560	420	280
120	660	0.96	460	340	230
144	550	1.38	320	240	160
168	470	1.87	230	170	120
192	410	2.45	180	130	90
216	360	3.10	140	110	70
240	330	3.82	110	90	60

COLUMN LOADING – P5500

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	4,580	13,860	12,610	10,910	9,300
36	4,010	11,120	9,300	7,190	5,550
48	3,370	8,550	6,580	4,800	3,800
60	2,810	6,430	4,800	3,610	2,920
72	2,410	4,970	3,800	2,920	2,390
84	2,120	4,060	3,160	2,460	2,020
96	1,900	3,450	2,720	2,130	1,740
108	1,720	3,000	2,390	1,870	1,520
120	1,570	2,670	2,130	1,660	**

ELEMENTS OF SECTION
P5500/P5501

Parameter	P5500	P5501
Area of Section	0.726 In ²	1.453 In ²
Axis 1-1		
Moment of Inertia (I)	0.523 In ⁴	2.811 In ⁴
Section Modulus (S)	0.391 In ³	1.153 In ³
Radius of Gyration (r)	0.848 In	1.391 In
Axis 2-2		
Moment of Inertia (I)	0.335 In ⁴	0.669 In ⁴
Section Modulus (S)	0.412 In ³	0.824 In ³
Radius of Gyration (r)	0.679 In	0.679 In

BEAM LOADING – P5501

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	4,680 *	0.02	4,680 *	4,680 *	4,680 *
36	4,680 *	0.05	4,680 *	4,680 *	4,680 *
48	4,680 *	0.08	4,680 *	4,680 *	4,680 *
60	3,870	0.13	3,870	3,870	3,870
72	3,220	0.19	3,220	3,220	3,220
84	2,760	0.26	2,760	2,760	2,510
96	2,420	0.34	2,420	2,420	1,920
108	2,150	0.42	2,150	2,150	1,520
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	1.34	960	720	480
216	1,070	1.70	760	570	380
240	970	2.10	610	460	310

COLUMN LOADING – P5501

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	8,650	32,840	32,310	31,440	30,410
36	8,450	31,560	30,410	28,610	26,550
48	8,180	29,850	27,950	25,070	21,960
60	7,830	27,780	25,070	21,160	17,200
72	7,420	25,450	21,960	17,200	12,730
84	6,940	22,950	18,770	13,460	9,350
96	6,410	20,360	15,660	10,310	7,160
108	5,810	17,780	12,730	8,150	5,660
120	5,220	15,280	10,310	6,600	**

Notes:

* Load limited by spot weld shear.

** $K L_r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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



BEAM LOADING – P5500 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	1511	1	1511	1511	1511
750	1209	1	1209	1209	1209
1,000	906	3	906	906	906
1,250	725	4	725	725	616
1,500	604	6	604	604	428
1,750	518	8	518	472	315
2,000	453	10	453	361	241
2,500	363	16	308	231	154
3,000	302	24	214	161	107
3,500	259	32	157	118	79
4,000	227	42	120	90	60
4,500	201	53	95	71	48
5,000	181	65	77	58	39
6,000	151	94	54	40	27

BEAM LOADING – P5501 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	2123 *	1	2123 *	2123 *	2123 *
750	2123 *	1	2123 *	2123 *	2123 *
1,000	2123 *	1	2123 *	2123 *	2123 *
1,250	2123 *	2	2123	2123	2123
1,500	1782	3	1782	1782	1782
1,750	1527	4	1527	1527	1527
2,000	1336	6	1336	1336	1294
2,500	1069	9	1069	1069	828
3,000	891	13	891	863	575
3,500	764	18	764	634	423
4,000	668	23	647	485	324
4,500	594	29	511	384	256
5,000	535	36	414	311	207
6,000	446	52	288	216	144

COLUMN LOADING – P5500 (METRIC)

Height mm	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	2,087	6,323	5,768	5,009	4,283
750	1,966	5,721	5,009	4,111	3,329
1,000	1,738	4,700	3,836	2,877	2,224
1,250	1,498	3,770	2,877	2,105	1,670
1,500	1,290	2,987	2,224	1,670	1,348
1,750	1,135	2,393	1,819	1,392	1,136
2,000	1,016	1,999	1,545	1,199	982
2,500	844	1,517	1,199	939	767

COLUMN LOADING – P5501 (METRIC)

Height mm	Maximum Unbraced Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	3,925	14,911	14,676	14,295	13,842
750	3,885	14,654	14,295	13,719	13,047
1,000	3,802	14,114	13,505	12,553	11,481
1,250	3,695	13,450	12,553	11,199	9,740
1,500	3,567	12,680	11,481	9,740	7,967
1,750	3,417	11,826	10,331	8,259	6,283
2,000	3,248	10,913	9,146	6,828	4,828
2,500	2,854	8,998	6,828	4,449	3,090

ELEMENTS OF SECTION P5500/P5501 (METRIC)

Parameter	P5500	P5501
Area of Section	4.68 cm ²	9.37 cm ²
Axis 1-1		
Moment of Inertia (I)	21.8 cm ⁴	117.0 cm ⁴
Section Modulus (S)	6.41 cm ³	18.89 cm ³
Radius of Gyration (r)	2.2 cm	3.5 cm
Axis 2-2		
Moment of Inertia (I)	13.9 cm ⁴	27.8 cm ⁴
Section Modulus (S)	6.75 cm ³	13.50 cm ³
Radius of Gyration (r)	1.7 cm	1.7 cm

Notes:

* Load limited by spot weld shear.

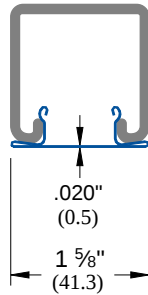
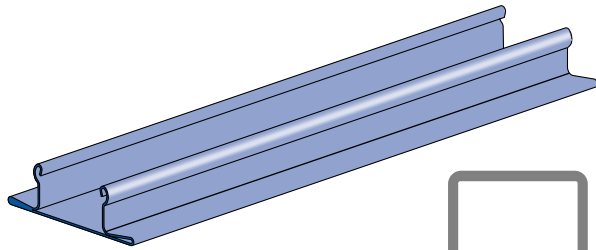
** $K L_r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.
- See page 61 for lateral bracing reduction charts.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

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

P1184

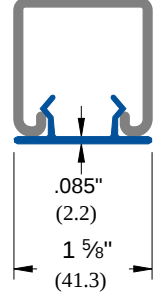
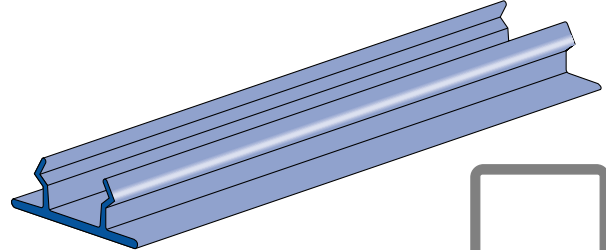
Wt/100 Ft: 27 Lbs (40.2 kg/100 m)
Standard length: 10' (3m)



Finish: Pregalvanized, plain.

P1184 P

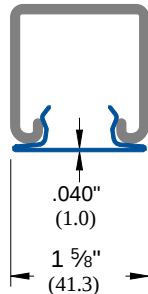
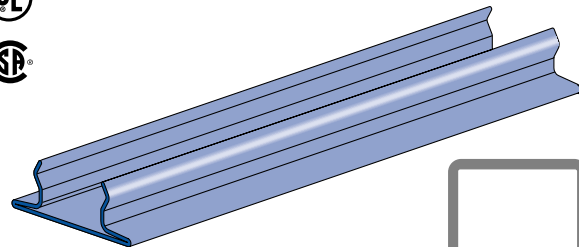
Wt/100 Ft: 11 Lbs (16.5 kg/100 m)
Standard length: 10' (3m)



Material: Paintable PVC.
Color: Green, Grey.

P3184

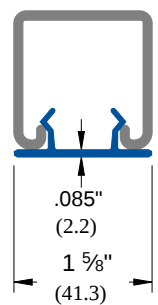
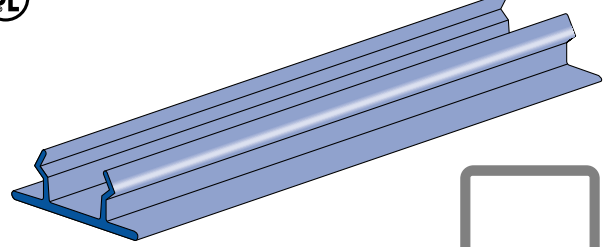
Wt/100 Ft: 47 Lbs (69.9 kg/100 m)
Standard length: 10' (3m)



Finish: Green, pre-galvanized, plain.

P3184 P

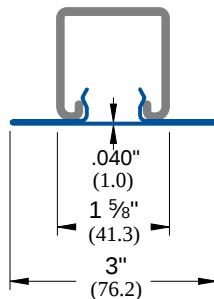
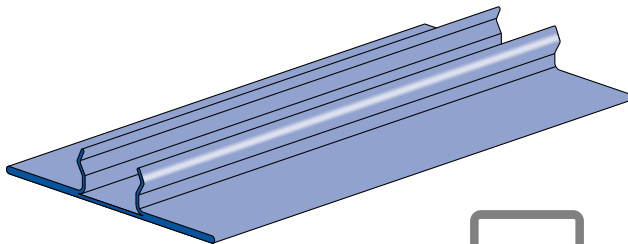
Wt/100 Ft: 9.4 Lbs (14.0 kg/100 m)
Standard length: 10' (3m)



Material : G.E. Noryl® Plastic.
Color: Green, Grey.

P3184 F

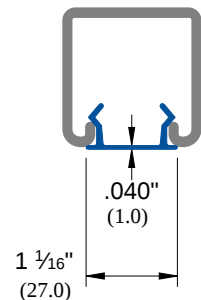
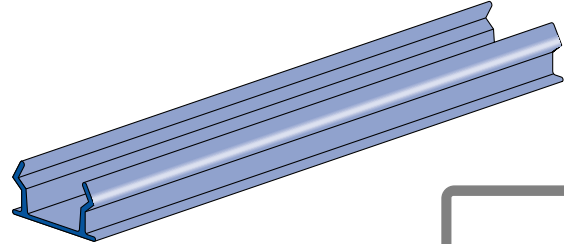
Wt/100 Ft: 90 Lbs (134 kg/100 m)
Standard length: 16' (4.9m)



Finish: Green, pre-galvanized, plain.

P3712 P

Wt/100 Ft: 5.4 Lbs (8.0 kg/100 m)
Standard length: 10' (3m)

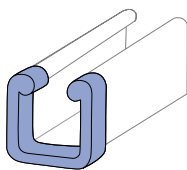


Material: Plastic.
Color: Black.
Note: Use with P3170, P3270, and P3370 series concrete insert.



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

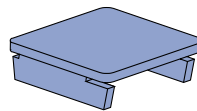
* Add color suffix:

GR - Green WH - White

GY - Grey

"A" series frame caps available

P1180, P2280, P4280, P5280, P5580

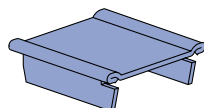


Part Number	Use With Channel	Wt/100 pcs Lbs (kg)
P1180	P1100	12 5.4
P2280	P2000	11 5.0
P4280	P4000	5 2.3
P5280	P5000	22 10.0
P5580	P5500	17 7.7

Material: .075" (1.9)

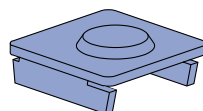
P1280

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



Use with P1000
Material: .060" (1.5)

P1280 A, P2280 A

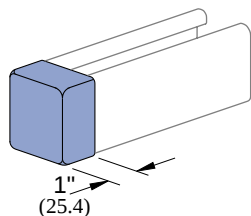


Part Number	Use With Channel	Wt/100 pcs Lbs (kg)
P1280A	P1000	11 5.0
P2280A	P2000	11 5.0

Material: .075" (1.9)

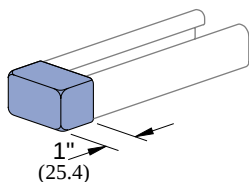
P2860

PLASTIC WHITE END CAPS



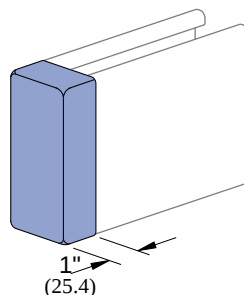
P2860-10

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



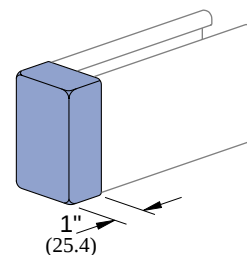
P2860-33

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



P2860-50

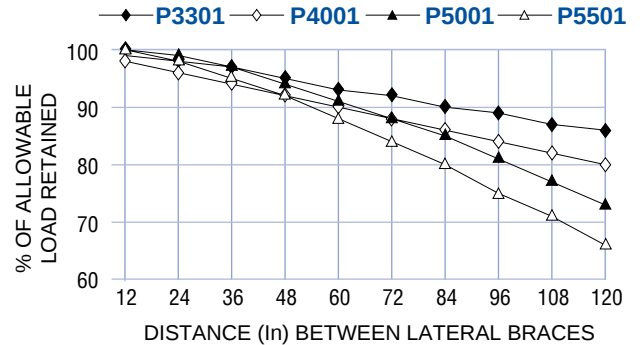
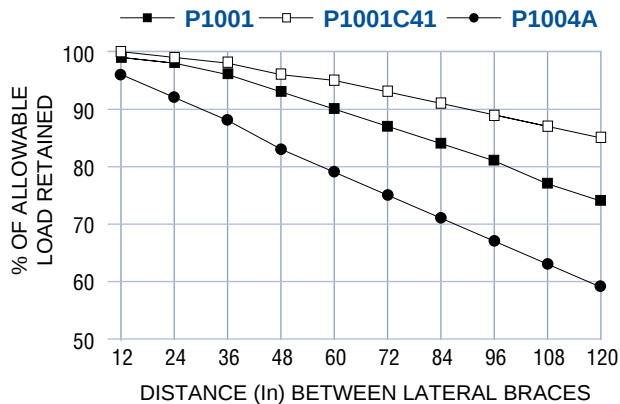
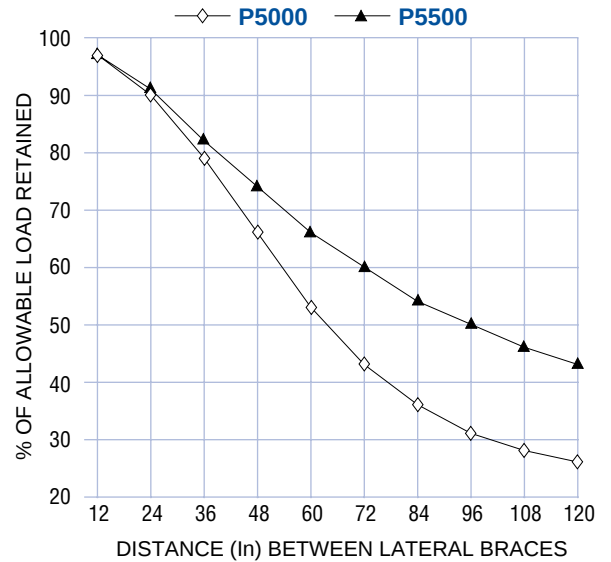
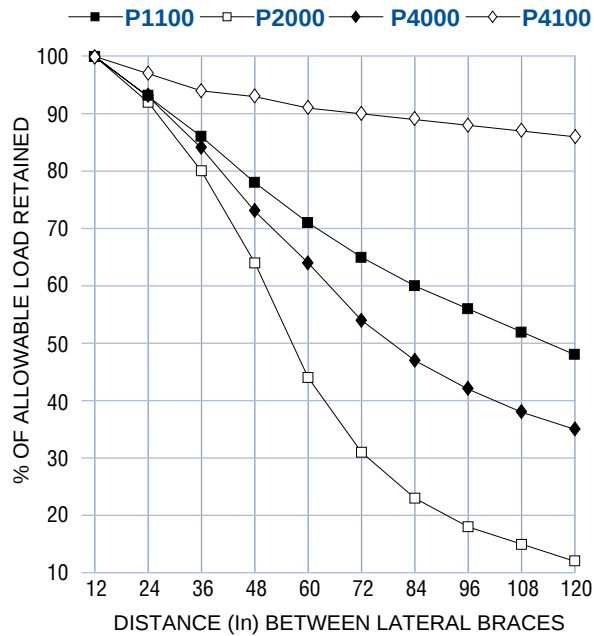
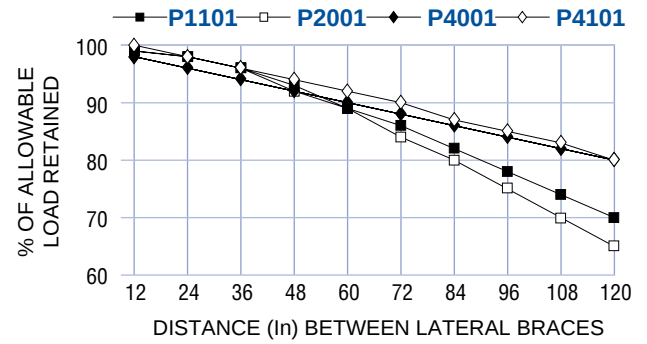
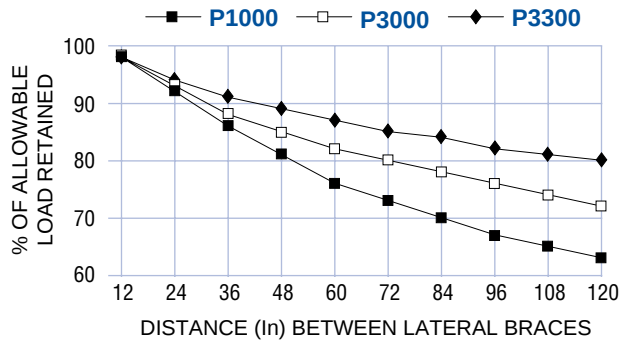
Use with P5000 & P1001 channels.
Wt/100 pcs 5 Lbs (2.3 kg)



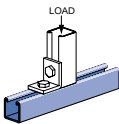
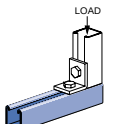
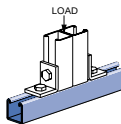
P2860-55

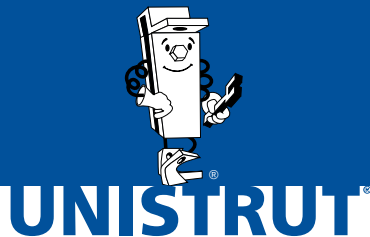
Use with P5500 channel.
Wt/100 pcs 4.7 Lbs (2.1 kg)

Lateral Bracing Load Reduction Charts



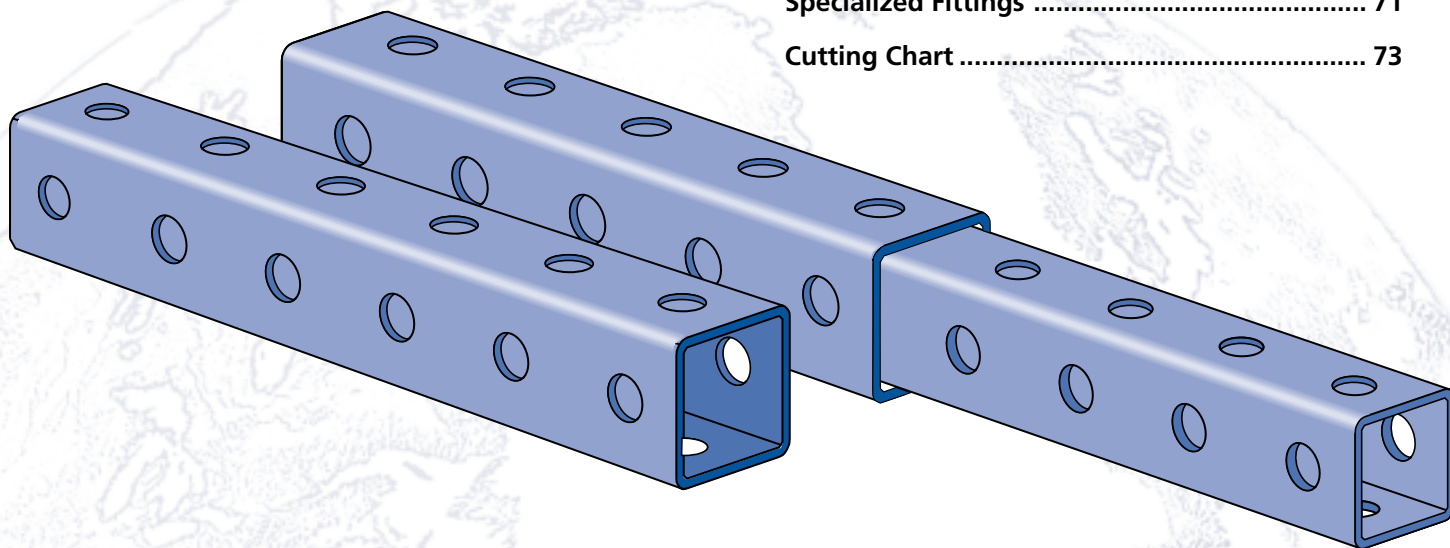
Bearing Loads on Unistrut Channel

Safety Factor — 2½			
	Bearing Length 1½" (41 mm) Maximum Allowable Loads Lbs (kg)	Bearing Length 1½" (41 mm) Maximum Allowable Loads Lbs (kg)	Bearing Length 3¼" (82 mm) Maximum Allowable Loads Lbs (kg)
Channel			
P1000	5,000 (2,268)	3,500 (1,588)	8,000 (3,629)
P1100	3,500 (1,588)	2,500 (1,134)	5,500 (2,495)
P2000	2,000 (907)	1,500 (680)	3,000 (1,361)
P3000	5,000 (2,268)	3,500 (1,588)	8,000 (3,629)
P3300	6,000 (2,722)	4,000 (1,814)	9,000 (4,082)
P4000	2,200 (998)	1,700 (771)	3,500 (1,588)
P4100	3,400 (1,542)	2,600 (1,179)	4,800 (2,177)
P5000	4,000 (1,814)	2,000 (907)	5,500 (2,495)
P5500	5,000 (2,268)	3,500 (1,588)	8,000 (3,629)



TELESTRUT® SYSTEM

Telescoping Tube	67
Connection Methods	70
Specialized Fittings	71
Cutting Chart	73



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. (1.5 mm)
ASTM A653 GR 33.

FINISHES

Fittings are available in: Perma-Green II (GR), electro-galvanized (EG), conforming to ASTM B633 Type III SC1; Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 and plain (PL).

DESIGN BOLT TORQUE

BOLT SIZE	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
FOOT LBS.	6	11	19	50	100	125
N·m	8	15	25	70	135	170

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.

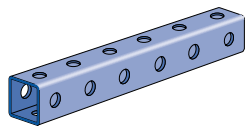
DESIGN LOAD

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



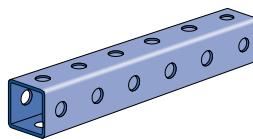
Telestrut Telescoping Tubing

1 5/8" x 1 5/8"
12 Ga.



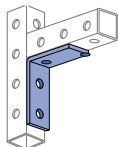
P9000-Pg 67

1 7/8" x 1 7/8"
12 Ga.

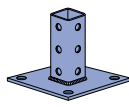


P9200-Pg 67

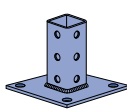
Special Fittings and Connection Hardware for Telestrut Telescoping Tubing



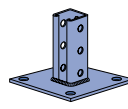
P9324-Pg 71



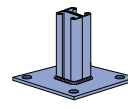
P9011-Pg 72



P9012-Pg 72



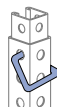
P9013-Pg 72



P9014-Pg 72



P9207-Pg 71

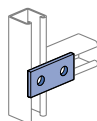


P9209-Pg 70

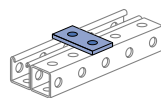


P9010-Pg 70

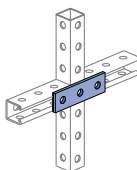
Standard 1 5/8" Metal Framing – Flat Plate Fittings



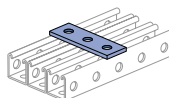
P1065-Pg 90



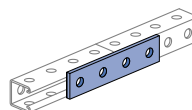
P1924-Pg 90



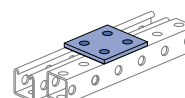
P1066-Pg 91



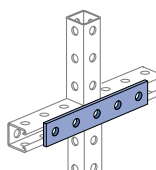
P1925-Pg 91



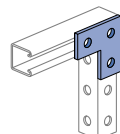
P1067-Pg 91



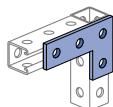
P2079-Pg 91



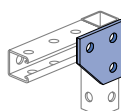
P1941-Pg 91



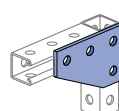
P1036-Pg 92



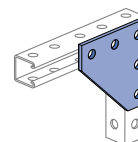
P1380A-Pg 92



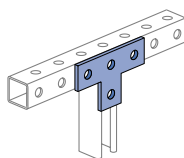
P1334-Pg 92



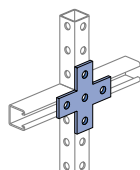
P1380-Pg 92



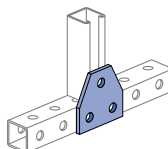
P1873-Pg 92



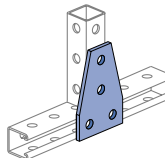
P1031-Pg 92



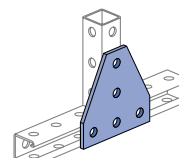
P1028-Pg 93



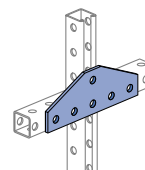
P1356-Pg 93



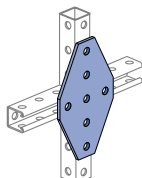
P1358-Pg 93



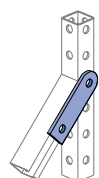
P1726-Pg 93



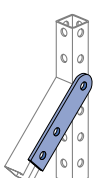
P1953-Pg 93



P1950-Pg 93



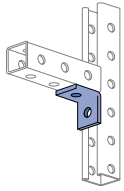
P2325-Pg 90



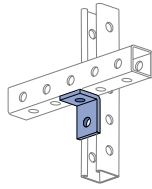
P2324-Pg 91

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.

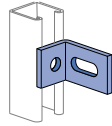
Standard 1½" Metal Framing – Ninety Degree Fittings



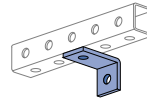
P1026-Pg 94



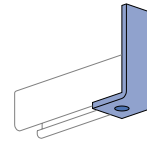
P1068-Pg 94



P1750-Pg 95



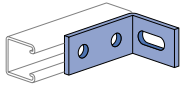
P1281-Pg 94



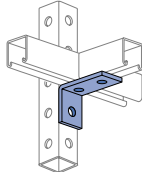
P1538A-Pg 95



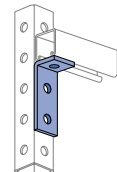
P1498-Pg 95



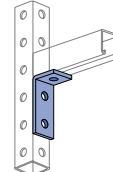
P1747-Pg 95



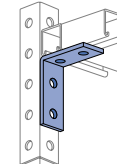
P1458-Pg 95



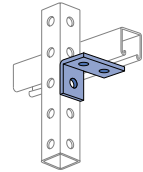
P1326-Pg 96



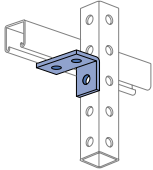
P1346-Pg 96



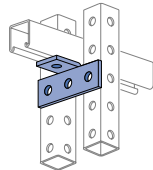
P1325-Pg 96



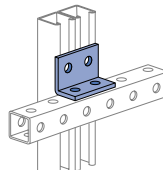
P1822-Pg 96



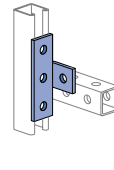
P1823-Pg 96



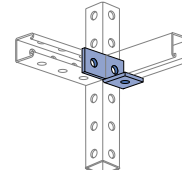
P1821-Pg 96



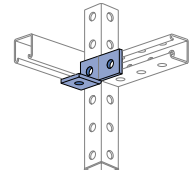
P1934-Pg 99



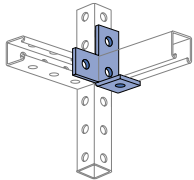
P1033-Pg 97



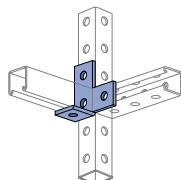
P1037-Pg 97



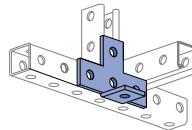
P1038-Pg 97



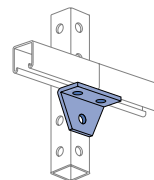
P1034-Pg 97



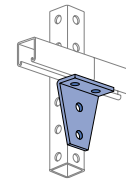
P1035-Pg 97



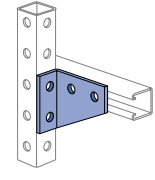
P1029-Pg 97



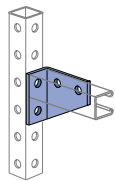
P1357-Pg 98



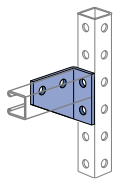
P1359-Pg 98



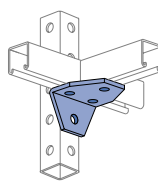
P1381-Pg 98



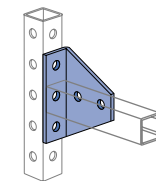
P1290-Pg 98



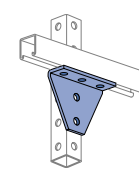
P1291-Pg 98



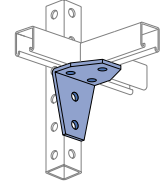
P1579-Pg 99



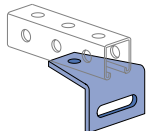
P1727-Pg 99



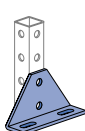
P1728-Pg 99



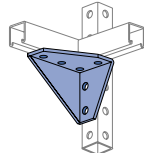
P2235-Pg 99



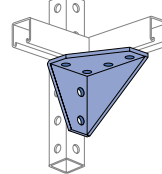
P1713-Pg 99



P1130-Pg 100

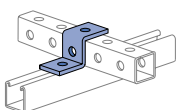


P1956-Pg 100

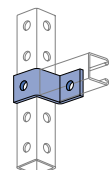


P1957-Pg 100

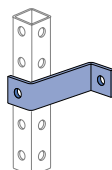
Standard 1½" Metal Framing – "Z" and "U" Shape Fittings



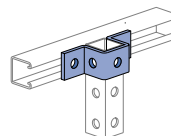
P1045-Pg 102



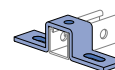
P1347-Pg 102



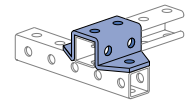
P1479-Pg 103



P1047-Pg 106



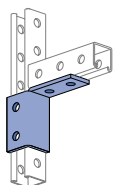
P1048-Pg 107



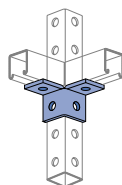
P2326-Pg 109



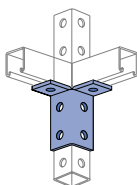
Standard 1½" Metal Framing – Wing Shape Fittings



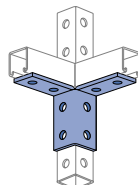
P2343-Pg 110



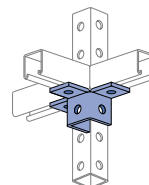
P2223-Pg 110



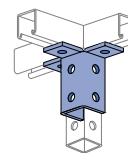
P2224-Pg 110



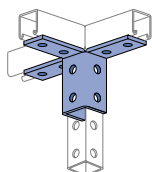
P2225-Pg 110



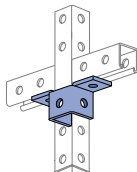
P2227-Pg 110



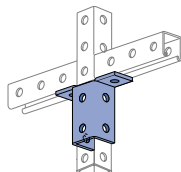
P2228-Pg 110



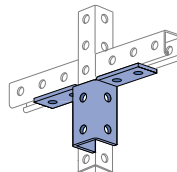
P2229-Pg 111



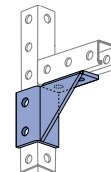
P2345-Pg 111



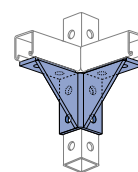
P2346-Pg 111



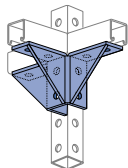
P2347-Pg 111



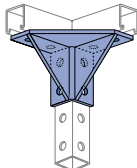
P2344-Pg 111



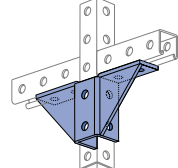
P2226-Pg 111



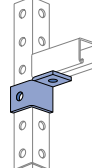
P2230-Pg 112



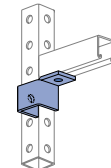
P2245-Pg 112



P2348-Pg 112



P2341-Pg 109



P2472-Pg 109

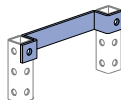
Standard 1½" Metal Framing – Misc. Fittings



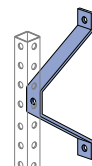
P1843-Pg 135



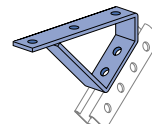
P1354-Pg 135



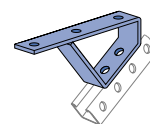
P1201-Pg 135



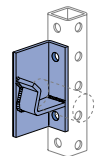
P1204-Pg 136



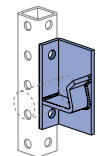
P1944-Pg 136



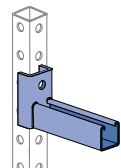
P2655-Pg 136



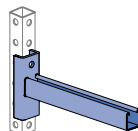
P2354L-Pg 135



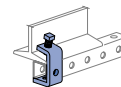
P2354R-Pg 135



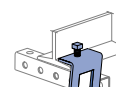
P2231-Pg 118



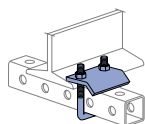
P2233-Pg 118



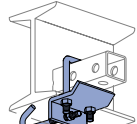
P1271S-Pg 126



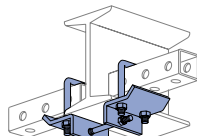
P1796S-Pg 126



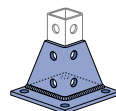
P2785-Pg 127



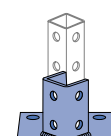
P2867-Pg 127



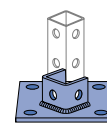
P2868-Pg 128



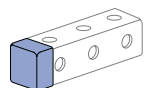
P1887-Pg 112



P2072A-Pg 113



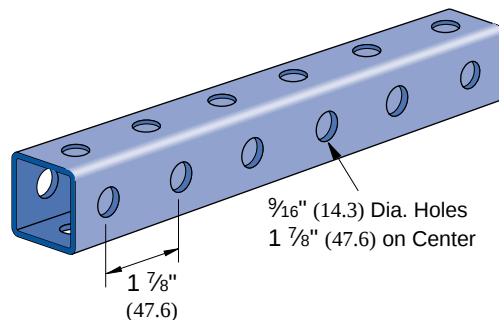
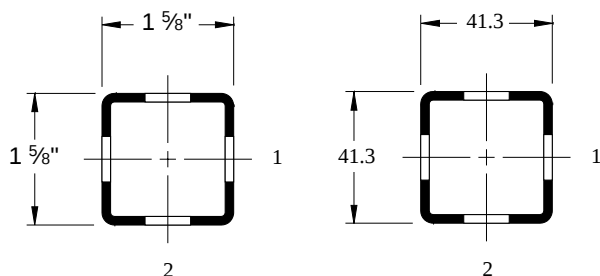
P2072-Pg 113



P2860-10-Pg 60

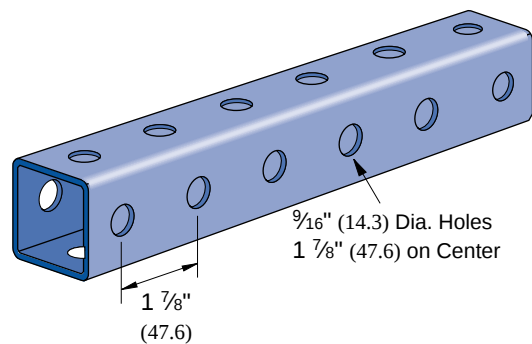
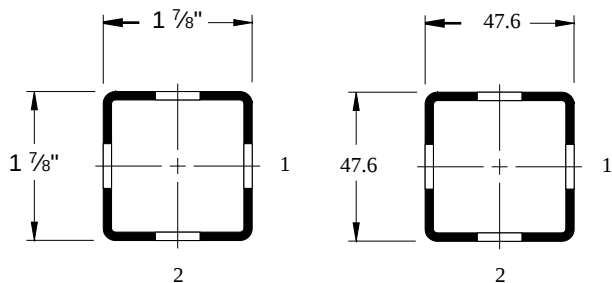
P9000

Wt/100 Ft: 190 Lbs (283 kg/100 m)
Allowable Moment 5,080 In-Lbs (570 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)



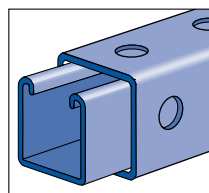
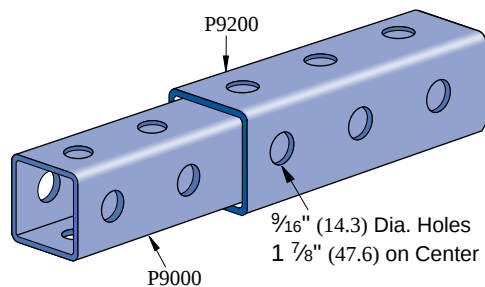
P9200

Wt/100 Ft: 380 Lbs (566 kg/100 m)
Allowable Moment 14,390 In-Lbs (1,630 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

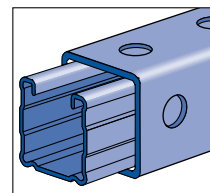


Telestrut's Telescoping Power

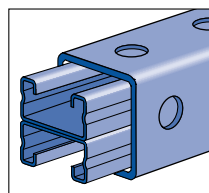
Telestrut can be combined with metal framing channel



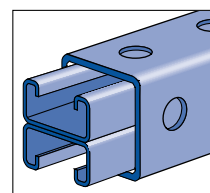
P1000 Series



P1100 Series



P4001 Series



P4101 Series

Channel Finishes: PL, GR, PG; Standard Length: 20'



BEAM LOADING – P9000

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,690	0.06	1,690	1,690	1,690
36	1,120	0.14	1,120	1,120	800
48	840	0.25	840	670	450
60	670	0.39	570	430	290
72	560	0.56	400	300	200
84	480	0.77	290	220	150
96	420	1.00	220	170	110
108	370	1.27	180	130	90
120	340	1.57	140	110	70
144	280	2.26	100	70	50
168	240	3.07	70	50	40
192	210	4.02	60	40	NR
216	190	5.08	40	NR	NR
240	170	6.28	NR	NR	NR

BEAM LOADING – P9200

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	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	970	730	490
72	830	0.49	670	510	340
84	710	0.67	500	370	250
96	620	0.87	380	280	190
108	550	1.11	300	220	150
120	500	1.37	240	180	120
144	420	1.97	170	130	80
168	360	2.68	120	90	60
192	310	3.50	90	70	50
216	280	4.43	70	60	NR
240	250	5.47	60	50	NR

COLUMN LOADING – P9000

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,490	8,660	8,500	8,260	7,970
36	3,270	8,290	7,970	7,460	6,880
48	3,000	7,810	7,270	6,470	5,600
60	2,710	7,220	6,470	5,380	4,300
72	2,410	6,570	5,600	4,300	3,110
84	2,120	5,870	4,730	3,290	2,290
96	1,840	5,160	3,890	2,520	1,750
108	1,590	4,460	3,110	1,990	1,380
120	1,380	3,790	2,520	1,610	**

COLUMN LOADING – P9200

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	4,510	11,120	10,970	10,730	10,450
36	4,300	10,770	10,450	9,940	9,360
48	4,020	10,290	9,760	8,930	8,020
60	3,710	9,710	8,930	7,780	6,580
72	3,380	9,040	8,020	6,580	5,160
84	3,050	8,310	7,060	5,390	3,880
96	2,730	7,550	6,100	4,280	2,970
108	2,420	6,760	5,160	3,380	2,350
120	2,130	5,980	4,280	2,740	1,900

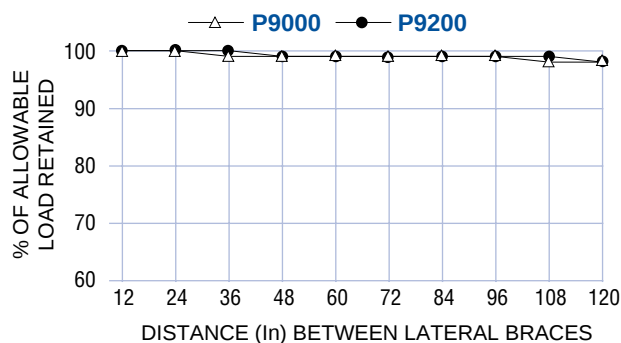
NR = Not Recommended. ** $K L_r > 200$

- Notes:
1. Above loads include the weight of the member. This 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.
 4. Refer to chart for lateral bracing reduction.

ELEMENTS OF SECTION P9000/P9200

Parameter	P9000	P9200
Area of Section	0.384 In ²	2.477 cm ²
Axis 1-1		
Moment of Inertia (I)	0.164 In ⁴	6.826 cm ⁴
Section Modulus (S)	0.203 In ³	3.327 cm ³
Radius of Gyration (r)	0.653 In	1.659 cm
Axis 2-2		
Moment of Inertia (I)	0.164 In ⁴	6.826 cm ⁴
Section Modulus (S)	0.203 In ³	3.327 cm ³
Radius of Gyration (r)	0.653 In	1.659 cm

LATERAL BRACING REDUCTION



BEAM LOADING – P9000 (METRIC)

Span mm	Max	Defl. at	Uniform Loading at Deflection		
	Allowable Uniform Load	Uniform Load	Span/180	Span/240	Span/360
kg	mm	kg	kg	kg	kg
600	777	2	777	777	777
750	622	2	622	622	537
1,000	466	4	466	453	302
1,250	373	7	373	290	193
1,500	311	10	269	201	134
1,750	267	13	197	148	99
2,000	233	17	151	113	76
2,500	187	27	97	73	48
3,000	156	39	67	50	34
3,500	133	53	49	37	25
4,000	117	69	38	28	19
4,500	104	87	30	22	NR
5,000	93	107	24	18	NR
6,000	78	154	NR	NR	NR

BEAM LOADING – P9200 (METRIC)

Span mm	Max	Defl. at	Uniform Loading at Deflection		
	Allowable Uniform Load	Uniform Load	Span/180	Span/240	Span/360
kg	mm	kg	kg	kg	kg
600	1148	1	1148	1148	1148
750	918	2	918	918	910
1,000	689	4	689	689	512
1,250	551	6	551	492	328
1,500	459	8	455	341	228
1,750	393	11	334	251	167
2,000	344	15	256	192	128
2,500	275	23	164	123	82
3,000	230	34	114	85	57
3,500	197	46	84	63	42
4,000	172	60	64	48	32
4,500	153	76	51	38	25
5,000	138	93	41	31	21
6,000	115	134	28	21	NR

COLUMN LOADING – P9000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,584	3,931	3,864	3,755	3,627
750	1,540	3,858	3,755	3,592	3,402
1,000	1,452	3,704	3,532	3,263	2,963
1,250	1,350	3,516	3,263	2,884	2,480
1,500	1,240	3,299	2,963	2,480	1,996
1,750	1,128	3,059	2,643	2,075	1,541
2,000	1,017	2,805	2,317	1,689	1,180
2,500	812	2,277	1,689	1,088	755
2,750	719	2,016	1,404	899	624

COLUMN LOADING – P9200 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	2,048	5,048	4,983	4,878	4,752
750	2,005	4,977	4,878	4,718	4,529
1,000	1,916	4,828	4,658	4,390	4,083
1,250	1,811	4,643	4,390	4,002	3,574
1,500	1,695	4,426	4,083	3,574	3,036
1,750	1,573	4,183	3,748	3,126	2,504
2,000	1,449	3,919	3,396	2,679	2,004
2,500	1,208	3,351	2,679	1,847	1,282
2,750	1,095	3,059	2,333	1,526	1,060

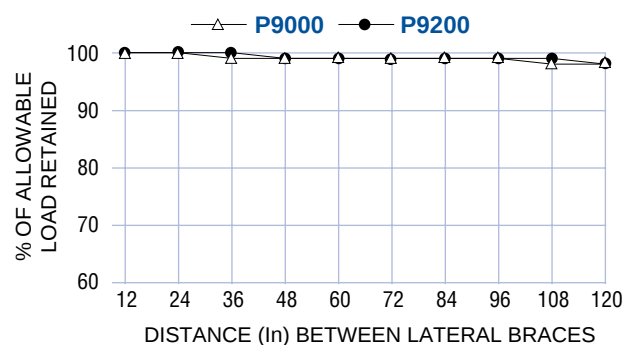
NR = Not Recommended.

- Notes:
1. Above loads include the weight of the member. This 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.
 4. Refer to chart for lateral bracing reduction.

ELEMENTS OF SECTION
P9000/P9200 (METRIC)

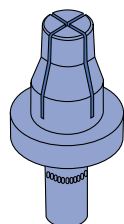
Parameter	P9000	P9200
Area of Section	4.68 cm ²	3.15 cm ²
Axis 1-1		
Moment of Inertia (I)	21.8 cm ⁴	11.6 cm ⁴
Section Modulus (S)	6.41 cm ³	4.87 cm ³
Radius of Gyration (r)	2.2 cm	1.9 cm
Axis 2-2		
Moment of Inertia (I)	13.9 cm ⁴	11.6 cm ⁴
Section Modulus (S)	6.75 cm ³	4.87 cm ³
Radius of Gyration (r)	1.7 cm	1.9 cm

LATERAL BRACING REDUCTION

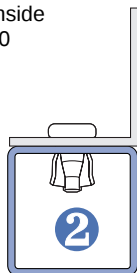




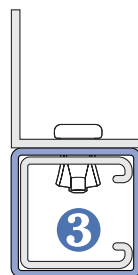
P9010 Multi-grip Rivet



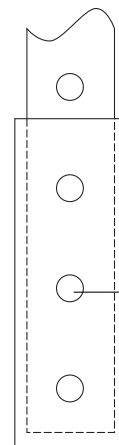
1
P9000 Inside
P9200



2
Fitting Attached
to Tube Section
or Channel



3
Fitting Attached
to Tube Section
with Tube Section
or Channel Inside

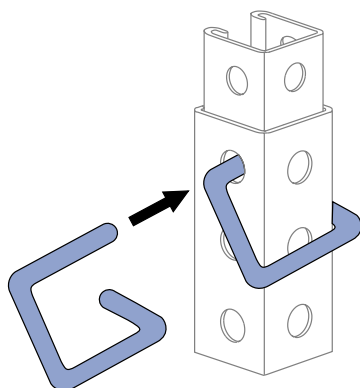


Wt/100 pcs: 10 Lbs (4.5 kg)

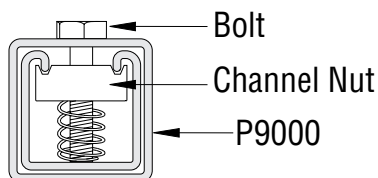
750 Lbs.
(340 Kg)
Pullout

P9209 Gravity Pin

Wt/100 pcs: 47 Lbs (21.3 kg)

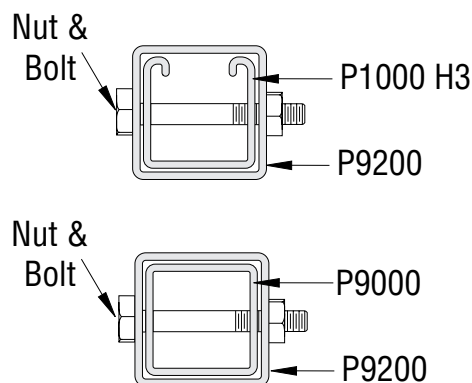


Channel Nut Connection Infinite Adjustment



Any of the 15/16" (41 mm) channel can be connected to the P9000 using standard channel nuts.

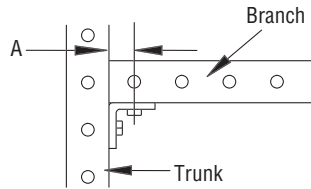
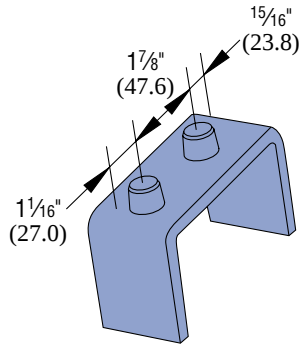
Through-Bolt Connection Incremental Adjustment



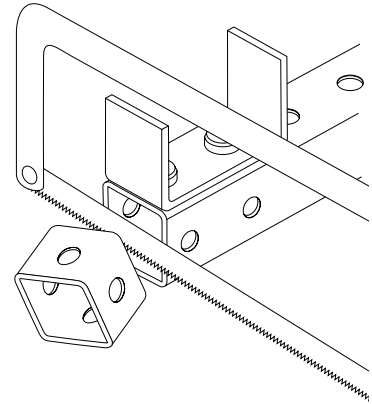
Standard Dimensions for 15/16" (41 mm) width series channel Fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P9207 Cutting Alignment Gauge

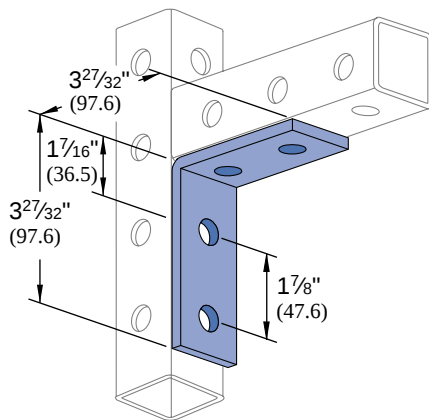


The cutting alignment guide ensures correct cutting of branch members when used with fittings to make connections. Refer to the table of page 73 for the appropriate value for "A" for cutting.



P9324

Wt/100 pcs: 78 Lbs (35.0 kg)



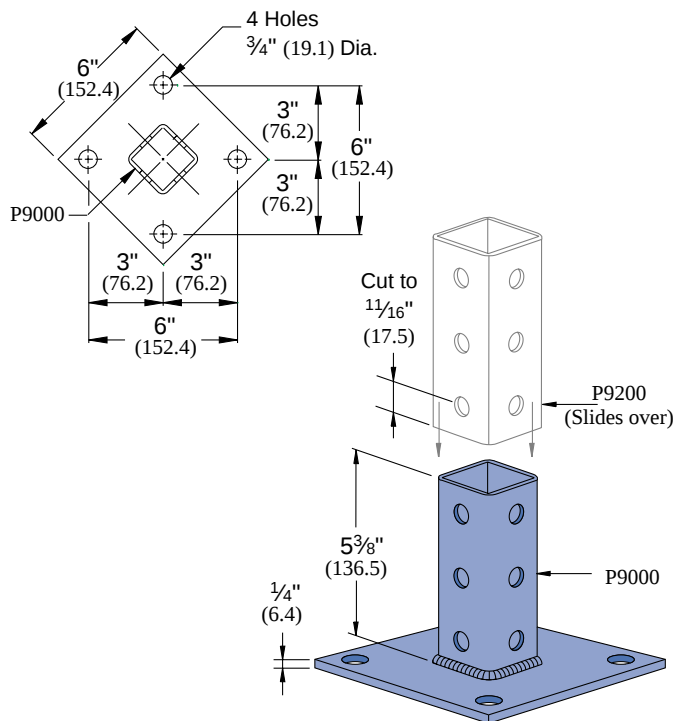
Standard Dimensions for 1 5/8" (41 mm) width series channel Fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 1 3/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



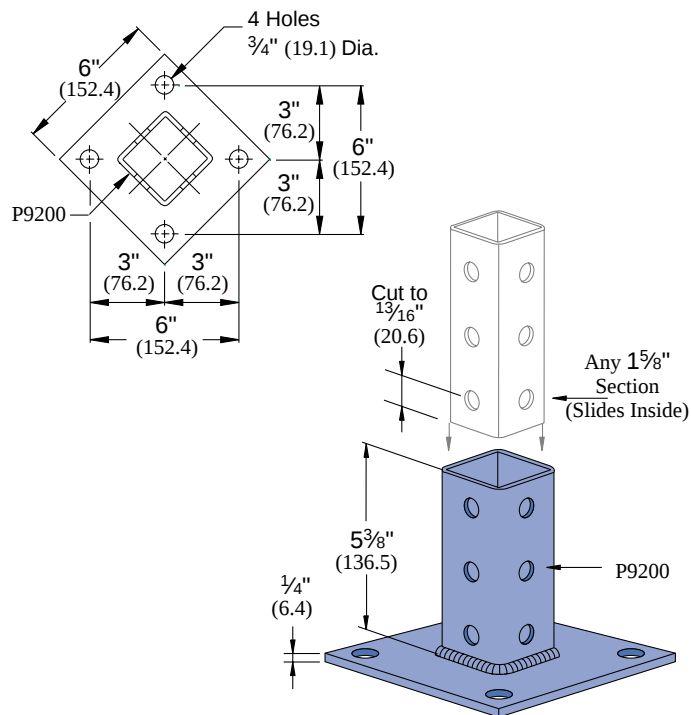
P9011

Wt/100 pcs: 332 Lbs (150.7 kg)



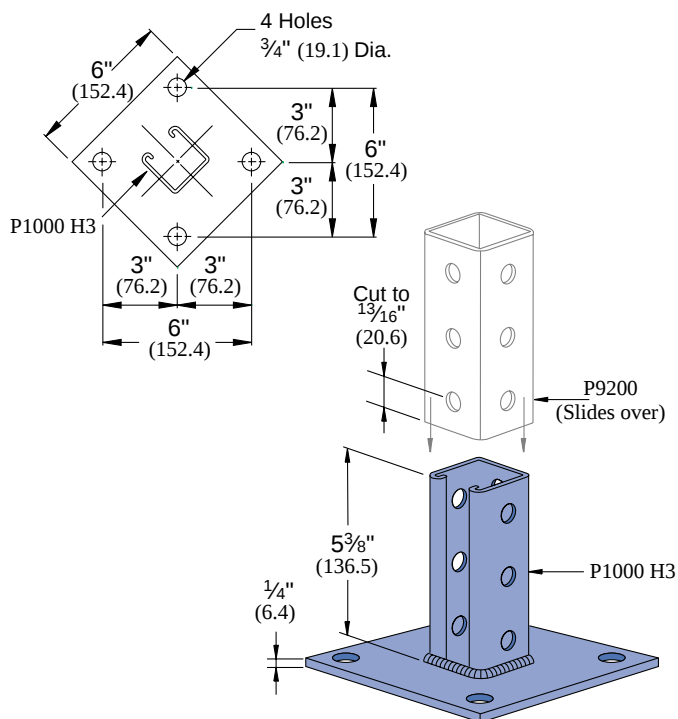
P9012

Wt/100 pcs: 340 Lbs (154 kg)



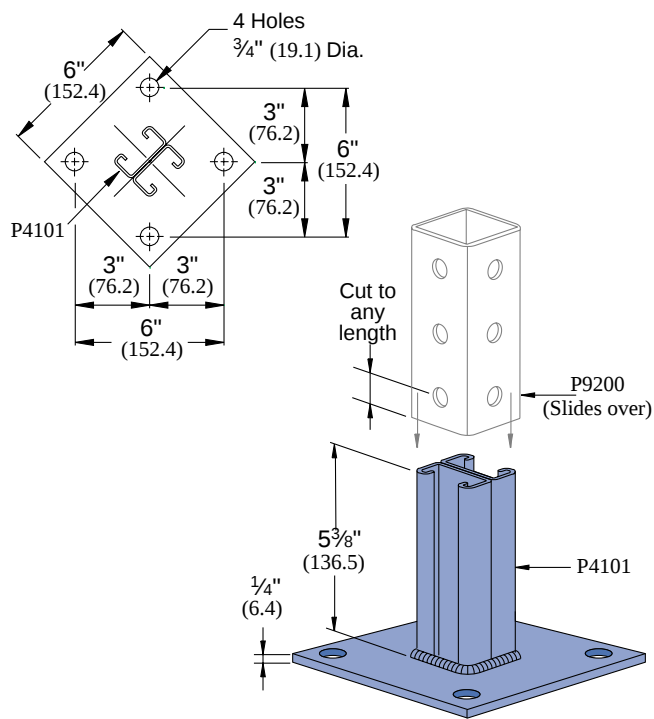
P9013

Wt/100 pcs: 318 Lbs (144.7 kg)



P9014

Wt/100 pcs: 303 Lbs (137.5 kg)



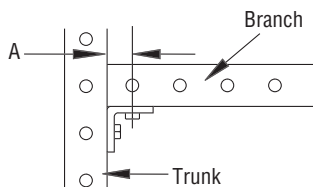
Standard Dimensions for 1 5/8" (41 mm) width series channel Fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 1 3/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

Cutting Chart

Fitting	1½" (41.3) Branch		1⅞" (47.6) Branch	
	Trunk	Trunk	Trunk	Trunk
	1½" (41.3)	1⅞" (47.6)	1½" (41.3)	1⅞" (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	†	†	†	†

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.



Fitting	1½" (41.3) Branch		1⅞" (47.6) Branch	
	Trunk	Trunk	Trunk	Trunk
	1½" (41.3)	1⅞" (47.6)	1½" (41.3)	1⅞" (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

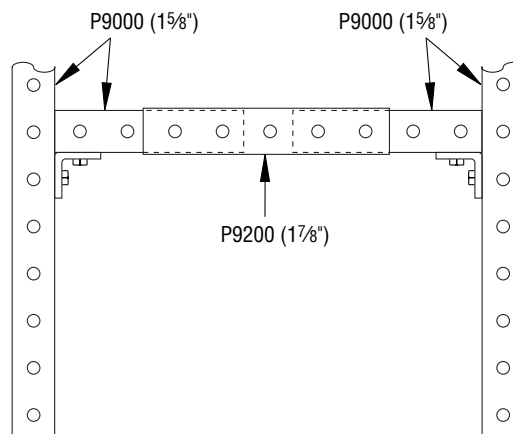
Legend

Designator	"A"	Designator	"A"
A	11½" 26.9	F	7½" * 11.1
B	15½" 23.8	G	1⅝" 26.6
C	13½" 20.6	NR	Not Recommended
D	1¼" 31.8	†	Special Cutting Req'd (See part dwg)
E	5⅞" * 15.9		



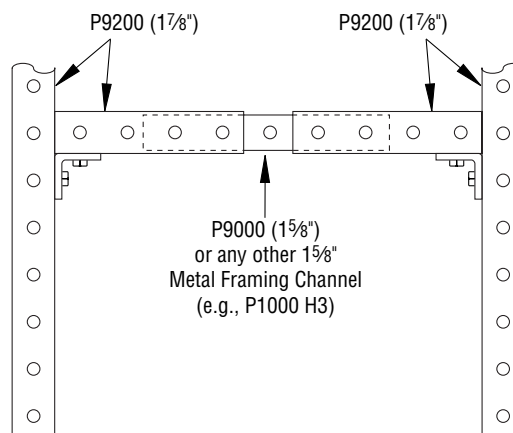
Preferred Three-Piece Assembly

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



Alternate Three-Piece Assembly

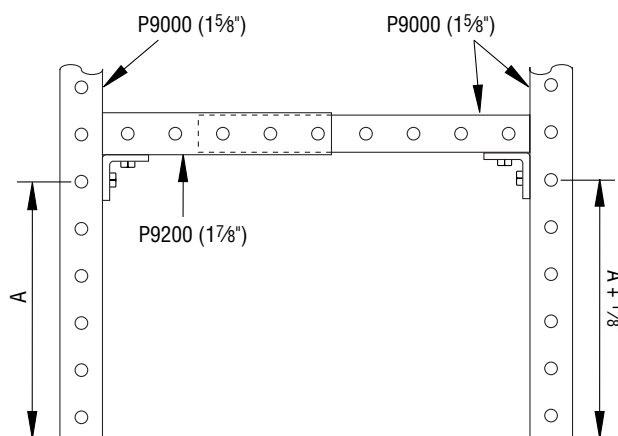
A similar technique is to use a center 1 5/8" center member (P9000) which can be telescoped into 1 7/8" members used at both ends. With this method, all intersecting connections should be formed from compatible 1 7/8" members.

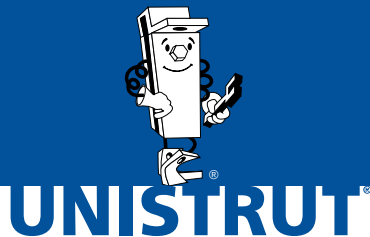


Two-Piece Assembly

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.

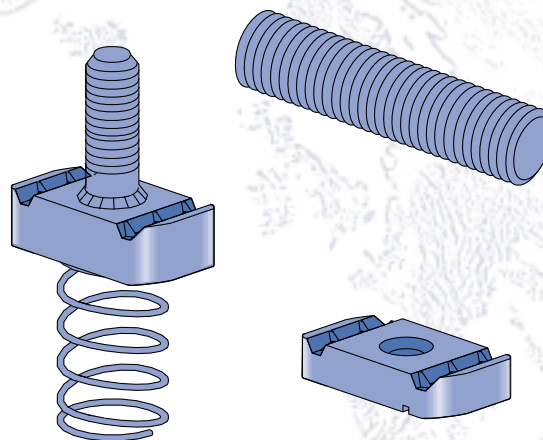
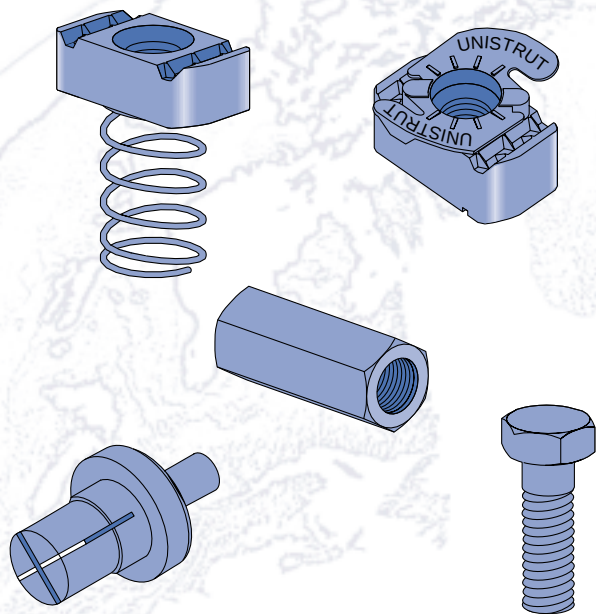
In addition, the right-angle members to which telescoping pieces are attached must be cut according to the illustration at right to insure smooth movement of telescoping members.





NUTS & HARDWARE

Channel Nuts With Springs	78
Channel Nuts Without Springs	79
Top Retainer Nuts	79
Stud Nuts	80
Hardware	81



MATERIAL

Unistrut channel nuts are manufactured from mild steel bars, and after machining operations are completed, they are case hardened, assuring positive biting action into the inturned edge of the Unistrut channel.

The standard channel nut conforms to ASTM A576 GR 1015 modified and A1011 SS GR 45.

Screws conform to SAE J429 GR 2 (also meets and exceeds ASTM A307).

FINISHES

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

All threads on the nuts and bolts are Unified and American coarse screw threads.

DESIGN BOLT TORQUE

BOLT SIZE	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
FOOT LBS.	6	11	19	50	100	125
N·m	8	15	25	70	135	170

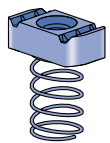
DIMENSIONS

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.

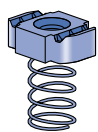
Many Unistrut nuts, bolts and hardware items are also available in standard metric dimensions. Consult factory for ordering information.



Channel Nuts With Spring



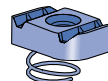
P1006 - P1010
Pg 78



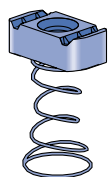
P1012S - P1024S
Pg 78



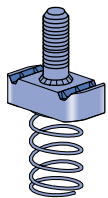
P4006 - P4010
Pg 78



P4012S - P4023S
Pg 78

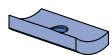


P5506 - P5510
Pg 78

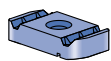


P2378 - P2382
Pg 80

Channel Nuts Without Spring



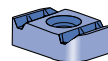
P3016
Pg 79



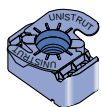
P3006 - P3013
Pg 79



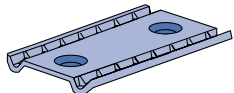
P1012 - P1024
Pg 79



P4012 - P4023
Pg 79

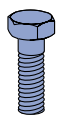


P1006T - P1010T, P4010T
Pg 79

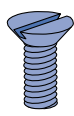


P4908
Pg 79

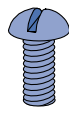
Hardware



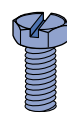
HHCS
Pg 81



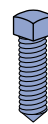
HFMS
Pg 81



HRMS
Pg 81



HSHS
Pg 81



HCSS
Pg 81



HSQN
Pg 82



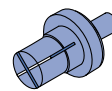
HFLW
Pg 82



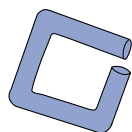
HHXN
Pg 82



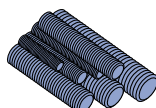
HLKW
Pg 82



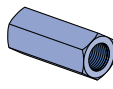
P9010
Pg 82



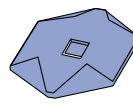
P9209
Pg 82



HTHR
Pg 83



HRCN
Pg 84



P2485
Pg 84

Maximum Allowable Pull-out And Slip Loads

Channel Nut Size-Thread	Gauge	Channel	Allowable Pull-Out Strength Lbs (kg)	Resistance to Slip Lbs (kg)	Torque Ft-Lbs (N•m)
¾" -10	12	P1000 P3000 P5000 P5500	2,500 1,134	1,700 771	*125 170
⅝" -11	12		2,500 1,134	1,500 680	*100 135
½" -13	12		2,000 907	1,500 680	50 70
⅞" -14	12		1,400 635	1,000 454	35 50
⅜" -16	12		1,000 454	800 363	19 25
⅝" -18	12		800 363	500 227	11 15
¼" -20	12		600 272	300 136	6 8

½" -13	12	P3300	1,500 680	1,500 680	50 70
⅜" -16	12		1,000 454	800 363	19 25
⅝" -18	12		800 363	500 227	11 15
¼" -20	12		600 272	300 136	6 8

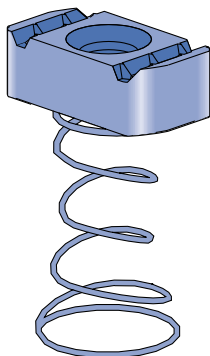
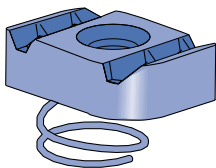
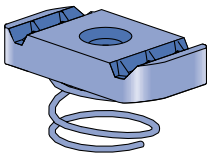
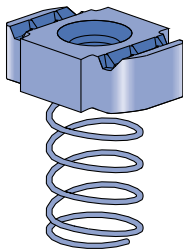
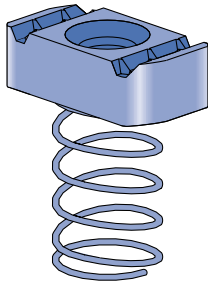
½" -13	14	P1100 & P4100	1,400 635	1,000 454	50 70
⅜" -16	14		1,000 454	750 340	19 25
⅝" -18	14		800 363	400 181	11 15
¼" -20	14		600 272	300 136	6 8

½" -13	16	P2000 & P4000	1,000 454	1,000 454	50 70
⅜" -16	16		1,000 454	750 340	19 25
⅝" -18	16		800 363	400 181	11 15
¼" -20	16		600 272	300 136	6 8

* May require ⅜" or ½" thick fitting.

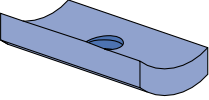
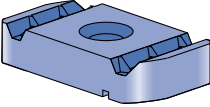
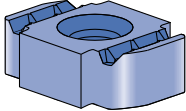
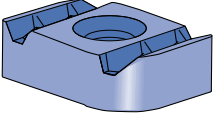
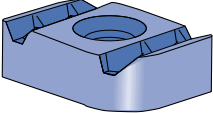
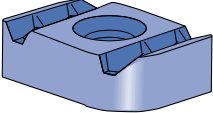
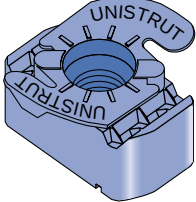
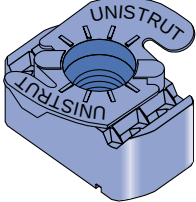
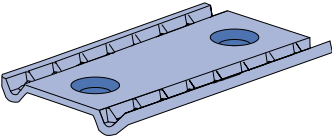
Nut design loads include a minimum safety factor of 3.

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



■ Acceptable for use

Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel P1000, P1100, P2000, P3000			
P1006-0832	#8 -32	7 3.2	■	-	-	-
P1006-1024	#10 -24	7 3.2	■	-	-	-
P1006-1420	1/4" -20	7 3.2	■	-	-	-
P1007	5/16" -18	6 2.7	■	-	-	-
P1008	3/8" -16	10 4.5	■	-	-	-
P1009	7/16" -14	9 4.1	■	-	-	-
P1010	1/2" -13	12 5.4	■	-	-	-
Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel P1000, P1100, P2000, P3000			
P1012S	5/8" -11	21 9.5	■	-	-	-
P1023S	3/4" -10	21 9.5	■	-	-	-
P1024S	7/8" -9	21 9.5	■	-	-	-
Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel P3300, P4000, P4100			
P4006-0832	# 8 -32	7 3.2	-	■	-	-
P4006-1024	#10 -24	7 3.2	-	■	-	-
P4006-1420	1/4" -20	7 3.2	-	■	-	-
P4007	5/16" -18	6 2.7	-	■	-	-
P4008	3/8" -16	9 4.1	-	■	-	-
P4009	7/16" -14	9 4.1	-	■	-	-
P4010	1/2" -13	8 3.6	-	■	-	-
Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel P3300, P4000, P4100			
P4012S	5/8" -11	10 4.5	-	■	-	-
P4023S	3/4" -10	10 4.5	-	■	-	-
Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With P5500			
P5506-0832	#8 -32	7 3.2	-	-	-	■
P5506-1024	#10 -24	7 3.2	-	-	-	■
P5506-1420	1/4" -20	7 3.2	-	-	-	■
P5507	5/16" -18	6 2.7	-	-	-	■
P5508	3/8" -16	10 4.5	-	-	-	■
P5509	7/16" -14	10 4.5	-	-	-	■
P5510	1/2" -13	12 5.4	-	-	-	■

	Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel			
				P1000, P1100, P2000, P3000	P3300, P4000 P4100	P5000	P5500
	P3016-0632	#6 -32	2 0.9	■	■	■	■
	P3016-0832	#8 -32	2 0.9	■	■	■	■
	P3016-1024	#10 -24	4 1.8	■	■	■	■
	P3016-1420	¼" -20	4 1.8	■	■	■	■
	Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel			
				P1000, P1100, P2000, P3000	P3300, P4000 P4100	P5000	P5500
	P3006-0832	#8 -32	6 2.7	■	■	■	■
	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	■	■	■	■
	P3010	½" -13	11 5.0	■	-	■	■
	P3013	½" -13	8 3.6	-	■	-	-
	Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel			
				P1000, P1100, P2000, P3000		P5000	P5500
	P1012	⅝" -11	20 9.1	■	-	■	■
	P1023	¾" -10	20 9.1	■	-	■	■
	P1024	7/8" -9	20 9.1	■	-	■	■
	Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel			
				P3300, P4000, P4100			
	P4012	⅝" -11	11 5.0	-	■	-	-
	P4023	¾" -10	11 5.0	-	■	-	-
	Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel			
				P1000, P1100, P2000, P3000	P3300, P4000 P4100	P5000	P5500
	P1006T1420	¼" -20	7 3.2	■	■	■	■
	P1008T	⅜" -16	10 4.5	■	■	■	■
	P1010T	½" -13	12 5.4	■	-	■	■
	P4010T	½" -13	8 3.6	-	■	-	-
	Channel nut Part number	Nut Size Thread	Wt/100 pcs Lbs (kg)	For Use With Channel			
				P1000, P1100, P2000, P3000	P3300, P4000 P4100	P5000	P5500
	P4908	⅝" -16	17.5 7.9	■	■	■	■
Double Conveyor Adjusting Nut							

■ Acceptable for use

15/8" Channel
Telesruct System

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

1 1/2" Framing System

1 3/8" Framing System

Fiberglass System

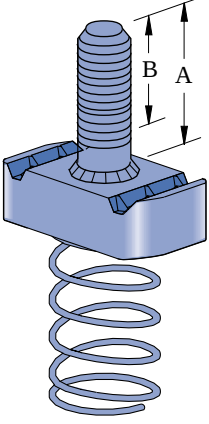
Special Metals

PrimeAngle System

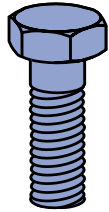
Product Index



Channel Stud Nut With Spring

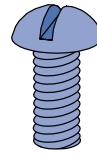
	Channel nut Part number	Nut Size Thread	"A" Stud In (mm)	"B" Thread In (mm)	Wt/100 pcs Lbs (kg)	For Use With Channel P1000, P1100, P2000, P3000
 All Stud Nut grooves are serrated. Special stud lengths and thread lengths can be supplied upon request. ■ Acceptable for use	P2378-1	1/4" -20	7/8 22.2	5/8 15.9	8 3.6	■
	P2378-2		1 1/8 28.6	7/8 22.2	9 4.1	■
	P2378-3		1 3/8 34.9	1 1/8 28.6	9 4.1	■
	P2379-1	5/16" -18	7/8 22.2	5/8 15.9	12 5.4	■
	P2379-2		1 1/8 28.6	7/8 22.2	12 5.4	■
	P2379-3		1 3/8 34.9	1 1/8 28.6	13 5.9	■
	P2380-1	3/8" -16	7/8 22.2	5/8 15.9	13 5.9	■
	P2380-2		1 1/8 28.6	7/8 22.2	13 5.9	■
	P2380-3		1 3/8 34.9	1 1/8 28.6	13 5.9	■
	P2380-4	1 5/8" -13	1 5/8 41.3	1 3/8 34.9	15 6.8	■
	P2380-5		1 7/8 47.6	1 5/8 41.3	16 7.3	■
	P2380-6		2 1/8 54.0	1 7/8 47.6	16 7.3	■
	P2381-2	1/2" -13	7/8 22.2	1/2 12.7	14 6.4	■
	P2381-3		1 1/8 28.6	3/4 19.1	15 6.8	■
	P2381-4		1 3/8 34.9	1 25.4	17 7.7	■
	P2381-5	1 1/4" -11	1 5/8 41.3	1 1/4 31.8	18 8.2	■
	P2381-6		1 7/8 47.6	1 1/2 38.1	19 8.6	■
	P2381-7		2 1/8 54.0	1 3/4 44.5	20 9.1	■
	P2382-2	5/8" -11	1 1/8 28.6	5/8 15.9	18 8.2	■
	P2382-3		1 3/8 34.9	7/8 22.2	20 9.1	■

Hex Head Cap Screws



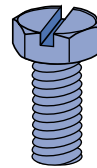
Part No.	Size	Wt/100 pcs Lbs (kg)
HHCS025044EG	1/4" x 7/16"	1.0 0.5
HHCS025075EG	1/4" x 3/4"	1.3 0.6
HHCS025150EG	1/4" x 1 1/2"	2.6 1.2
HHCS031125EG	5/16" x 1 1/4"	3.6 1.6
HHCS037075EG	3/8" x 3/4"	4.0 1.8
HHCS037087EG	3/8" x 7/8"	4.4 2.0
HHCS037100EG	3/8" x 1"	4.5 2.0
HHCS037125EG	3/8" x 1 1/4"	5.3 2.4
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 3/16"	10.2 4.6
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

Round Head Machine Screws



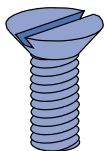
Part No.	Size	Wt/100 pcs Lbs (kg)
HRMS025050EG	1/4" x 1/2"	1 0.5
HRMS025075EG	1/4" x 3/4"	1.2 0.5
HRMS025100EG	1/4" x 1"	1.5 0.7
HRMS031100EG	5/16" x 1"	2.6 1.2
HRMS031125EG	5/16" x 1 1/4"	3 1.4
HRMS037100EG	3/8" x 1"	4.1 1.9
HRMS037125EG	3/8" x 1 1/4"	4.7 2.1
HRMS037150EG	3/8" x 1 1/2"	5.3 2.4

Hex Slotted Machine Screws



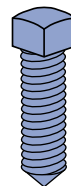
Part No.	Size	Wt/100 pcs Lbs (kg)
HSHS025050EG	1/4" x 1/2"	1.4 0.6
HSHS025062EG	1/4" x 5/8"	1.5 0.7
HSHS025075EG	1/4" x 3/4"	1.7 0.8
HSHS031100EG	5/16" x 1"	2.6 1.2
HSHS031125EG	5/16" x 1 1/4"	3 1.4
HSHS031150EG	5/16" x 1 1/2"	3.4 1.5
HSHS037125EG	3/8" x 1 1/4"	5.3 2.4

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

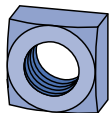
Cone Point Set Screws



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



Square Nuts



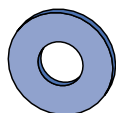
Part No.	Size	Wt/100 pcs Lbs (kg)
HSQN025EG	1/4"	0.9 0.4
HSQN031EG	5/16"	1.6 0.7
HSQN037EG	3/8"	2.7 1.2
HSQN050EG	1/2"	5.8 2.6
HSQN062EG	5/8"	10.7 4.9
HSQN075EG	3/4"	15.4 6.9
HSQN087EG	7/8"	24.9 11.3
HSQN100EG	1"	36.3 16.5

Hexagon Nuts



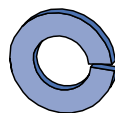
Part No.	Size	Wt/100 pcs Lbs (kg)
HHXN025EG	1/4"	0.6 0.3
HHXN031EG	5/16"	1.2 0.5
HHXN037EG	3/8"	1.6 0.7
HHXN050EG	1/2"	4.8 2.2
HHXN062EG	5/8"	7.3 3.3
HHXN075EG	3/4"	11.9 5.4
HHXN087EG	7/8"	19 8.6
HHXN100EG	1"	28.3 12.8

Flat Washers



Part No.	Size	Wt/100 pcs Lbs (kg)
HFLW025EG	1/4"	0.8 0.4
HFLW031EG	5/16"	1 0.5
HFLW037EG	3/8"	1.5 0.7
HFLW050EG	1/2"	3.5 1.6
HFLW062EG	5/8"	7.7 3.5
HFLW075EG	3/4"	11 5.0
HFLW087EG	7/8"	15.3 6.9
HFLW100EG	1"	18.8 8.5

Lock Washers

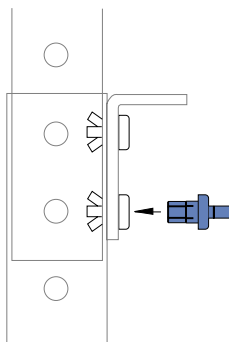
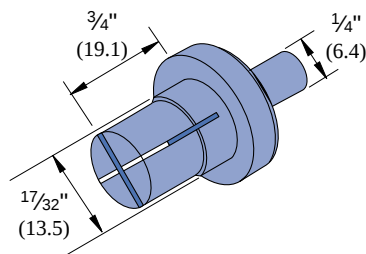


Part No.	Size	Wt/100 pcs Lbs (kg)
HLKW025EG	1/4"	0.25 0.1
HLKW031EG	5/16"	0.41 0.2
HLKW037EG	3/8"	0.63 0.3
HLKW050EG	1/2"	1.32 0.60
HLKW062EG	5/8"	2.20 1.0
HLKW075EG	3/4"	3.80 1.7
HLKW087EG	7/8"	6.00 2.7
HLKW100EG	1"	8.80 4.0

P9010

Rivet

Wt/100 pcs: 10.0 Lbs (4.5 kg)

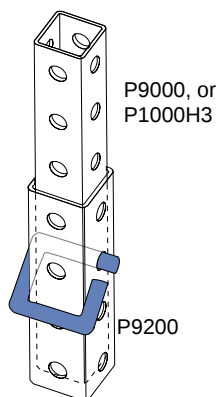
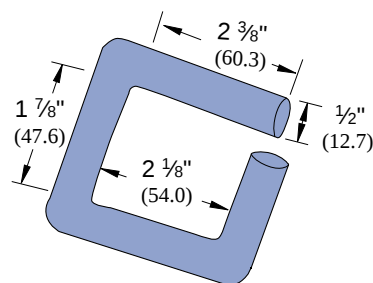


For use with
P9000, P9200 & P1000 H3

P9209

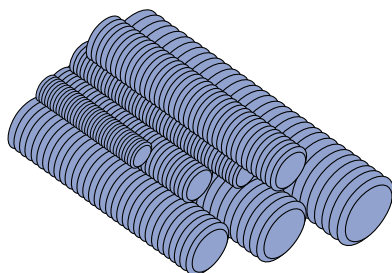
Gravity Pin

Wt/100 pcs: 10.0 Lbs (4.5 kg)



For use with
P9000, P9200 & P1000 H3.

Steel Threaded Rod



Part No.	Size	Wt/100 Ft. Lbs (kg)
HTHR025	1/4" x 20	13 5.9
HTHR031	5/16" x 18	20 9.1
HTHR037	3/8" x 16	30 13.6
HTHR044	7/16" x 14	30 13.6
HTHR050	1/2" x 13	53 24.0
HTHR062	5/8" x 11	84 38.1
HTHR075	3/4" x 10	124 56.2
HTHR087	7/8" x 9	170 77.1
HTHR100	1" x 8	223 101.2

Load Carrying Capacity Of Threaded Hot Rolled Steel
Conforming To Astm A575 And A576

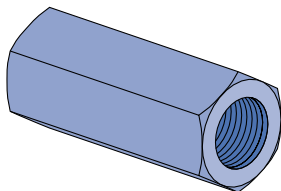
Nominal Diameter	Root Area In ² (mm ²)	Maximum Safe Load at 650°F (343°C) Lbs (kg)
3/8	0.068 43.9	610 277
1/2	0.126 81.3	1,130 513
5/8	0.202 130.3	1,810 821
3/4	0.302 194.8	2,710 1,229
7/8	0.419 270.3	3,770 1,710
1	0.552 356.1	4,960 2,250
1 1/8	0.693 447.1	6,230 2,826

Nominal Diameter	Root Area In ² (mm ²)	Maximum Safe Load at 650°F (343°C) Lbs (kg)
1 1/4	0.889 573.5	8,000 3,629
1 3/8	1.053 679.4	9,470 4,296
1 1/2	1.293 834.2	11,630 5,275
1 5/8	1.515 977.4	13,630 6,182
1 3/4	1.714 1,105.8	15,690 7,117
1 7/8	2.048 1,321.3	18,430 8,360
2	2.292 1,478.7	20,690 9,385

"Extracted from American Standard Code for pressure piping (ASA B31.1-1973, with permission of the publisher, the American Society of Mechanical Engineers, United Engineering Center, 345 E. 47th Street, New York, New York)."



Steel Coupler Nuts

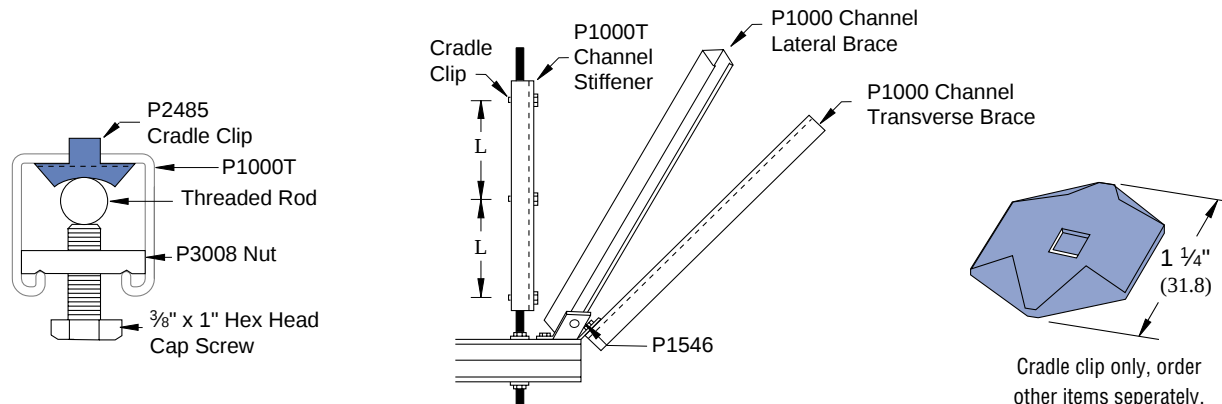


Part No.	Size	Length In (mm)	Wt/100 pcs Lbs (kg)
HRCN025	1/4" - 20	7/8" 22.2	1.9 0.9
HRCN031	5/16" - 18	1 3/4" 44.5	7.5 3.4
HRCN037	3/8" - 16	1 3/4" 44.5	9.0 4.1
HRCN044	7/16" - 14	1 3/4" 44.5	10.4 4.7
HRCN050	1/2" - 13	1 3/4" 44.5	10.0 4.5
HRCN062	5/8" - 11	2 1/8" 54.0	18.0 8.2
HRCN075	3/4" - 10	2 1/4" 57.2	28.0 12.7
HRCN087	7/8" - 9	2 1/2" 63.5	55.0 24.9
HRCN100	1" - 8	2 3/4" 69.9	73.0 33.1

P2485

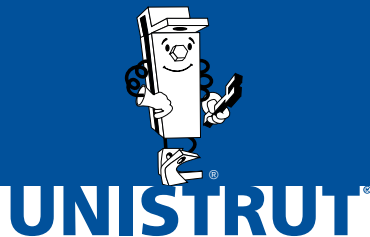
Cradle Clip

Wt/100 pcs: 3.0 Lbs (1.4 kg)

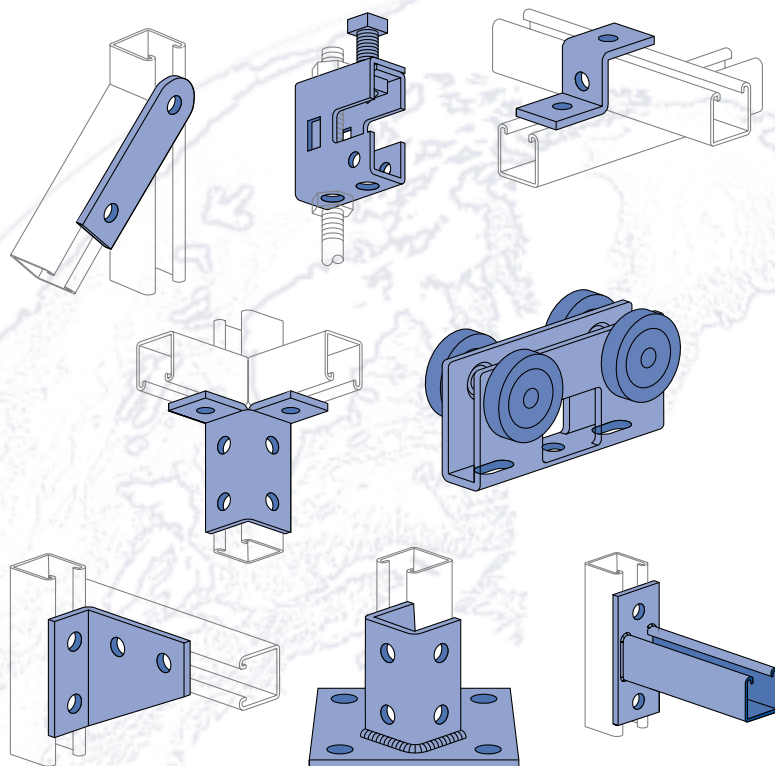


Refer to seismic bracing systems catalog for more detailed information.

Rod Size In	Root Area In ² (mm ²)	Root Diameter In (mm)	Radius of Gyration In (mm)	Max. Allowable Rod Compression @100% Lbs (kg)	Clip Spacing (L)		
					Rod Stress @50% 4,500 PSI 31,026 kPa	Rod Stress @75% 6,750 PSI 46,539 kPa	Rod Stress @100% 9,000 PSI 62,053 kPa
					In (mm)	In (mm)	In (mm)
3/8"	0.068 43.87	0.314 7.98	0.0785 1.99	610 277	14 356	12 305	10 254
1/2"	0.126 81.29	0.425 10.8	0.1063 2.7	1130 513	20 508	16 406	14 356
5/8"	0.202 130.3	0.536 13.61	0.1341 3.41	1810 821	24 610	20 508	16 406
3/4"	0.302 194.8	0.652 16.56	0.163 4.14	2710 1,229	30 762	24 610	20 508
7/8"	0.419 270.3	0.73 18.54	0.183 4.65	3770 1,710	35 889	28 711	25 635
1"	0.552 356.1	0.838 21.29	0.21 5.33	4960 2,250	40 1,016	33 838	28 711



GENERAL FITTINGS



Flat Plate Fittings	90
Ninety Degree Fittings	94
Angular Fittings	101
"Z" Shape Fittings	102
"U" Shape Fittings	104
Wing Shape Fittings	109
Post Bases	112
Brackets	114
Brace Fittings	120
Beam Clamps	122
Trolleys	133
Special Application Fittings	135

MATERIAL

Fittings, unless noted, are 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 requirements of ASTM A1011 SS 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: Perma-Green II (GR), electro-galvanized (EG), conforming to ASTM B633 Type III SC1; Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 and plain (PL).

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 $\frac{5}{8}$ " square, except where noted otherwise.

All $\frac{9}{16}$ " diameter holes use $\frac{1}{2}$ " x $\frac{1}{16}$ " hex head cap screws and $\frac{1}{2}$ " nuts – P1010, 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	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
FOOT LBS.	20	18	16	13	11	10
N•m	6	11	19	50	100	125
	8	15	25	70	135	170

DIMENSIONS

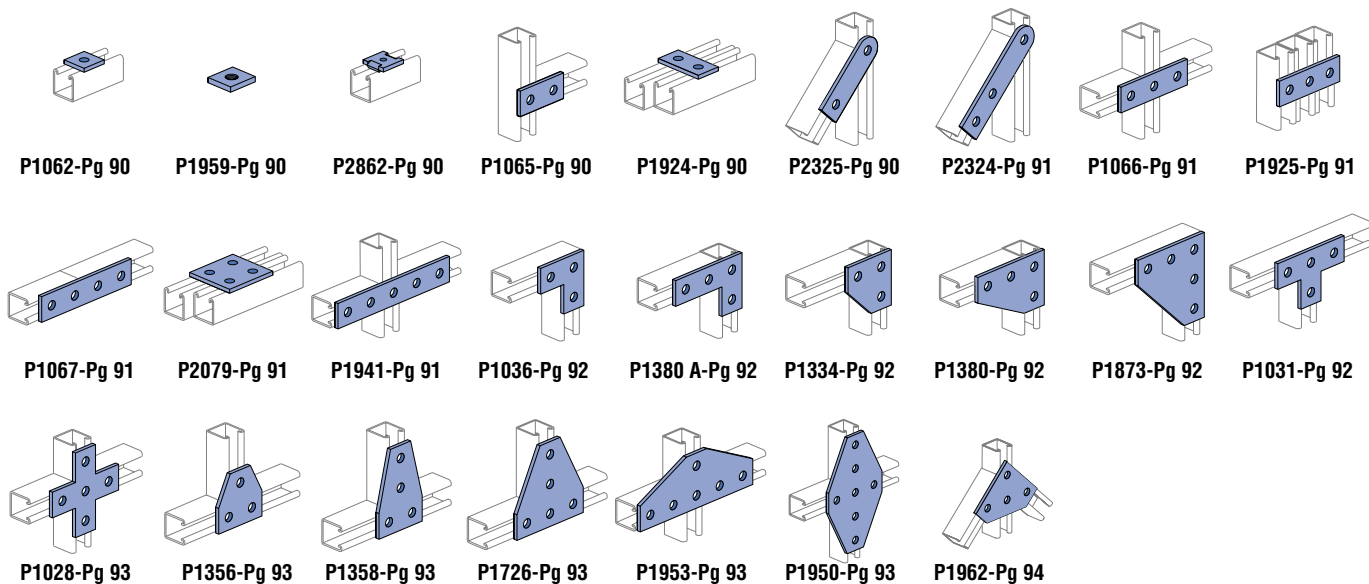
Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

DESIGN LOAD

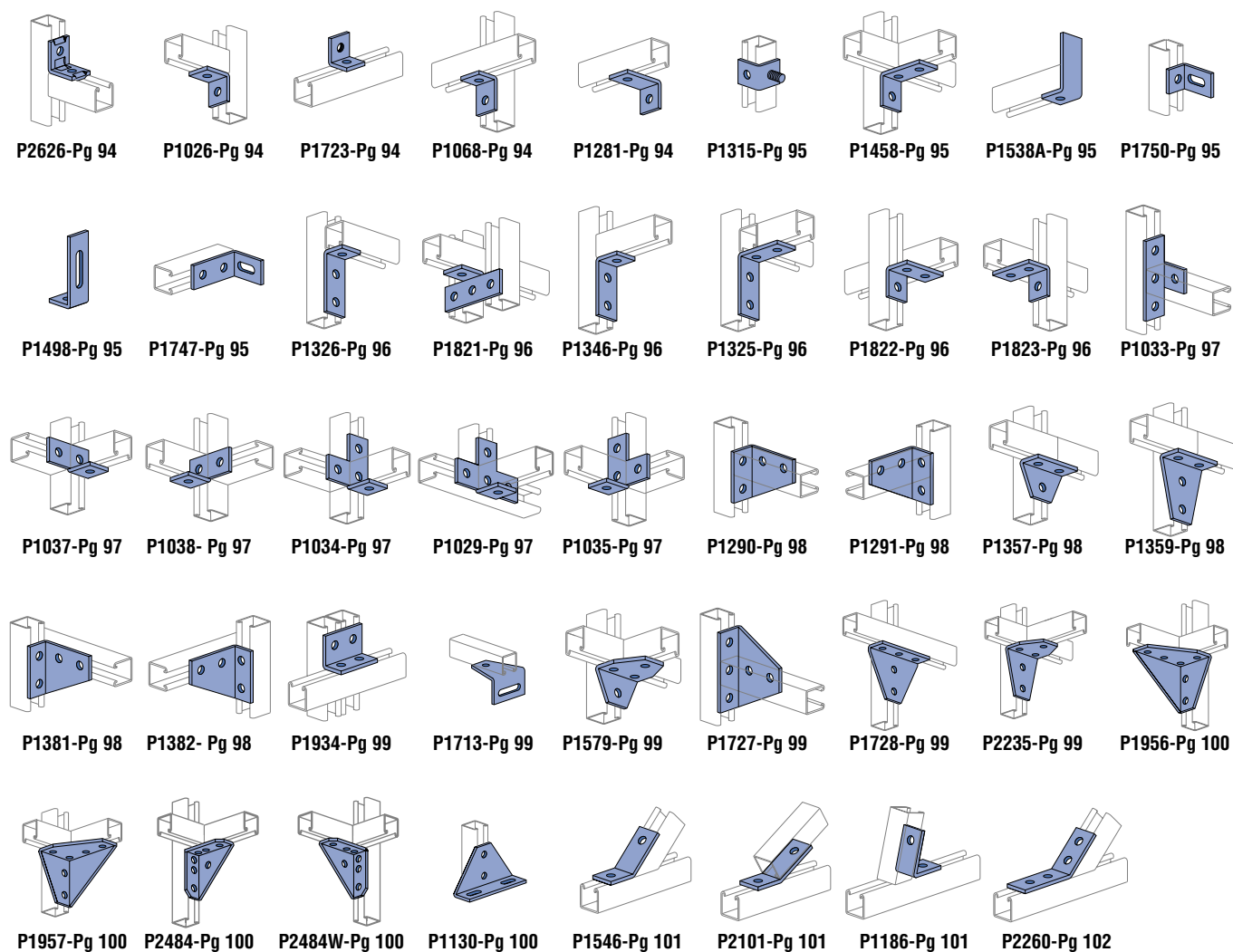
Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

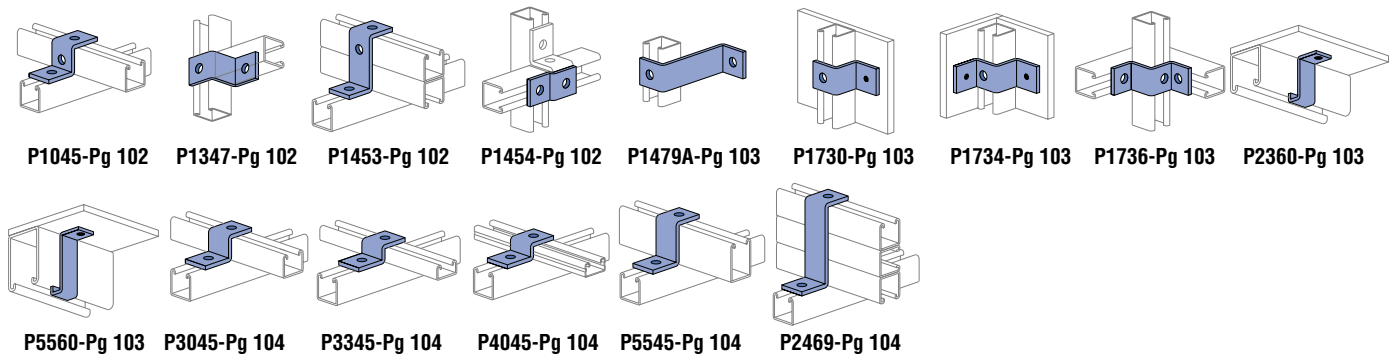
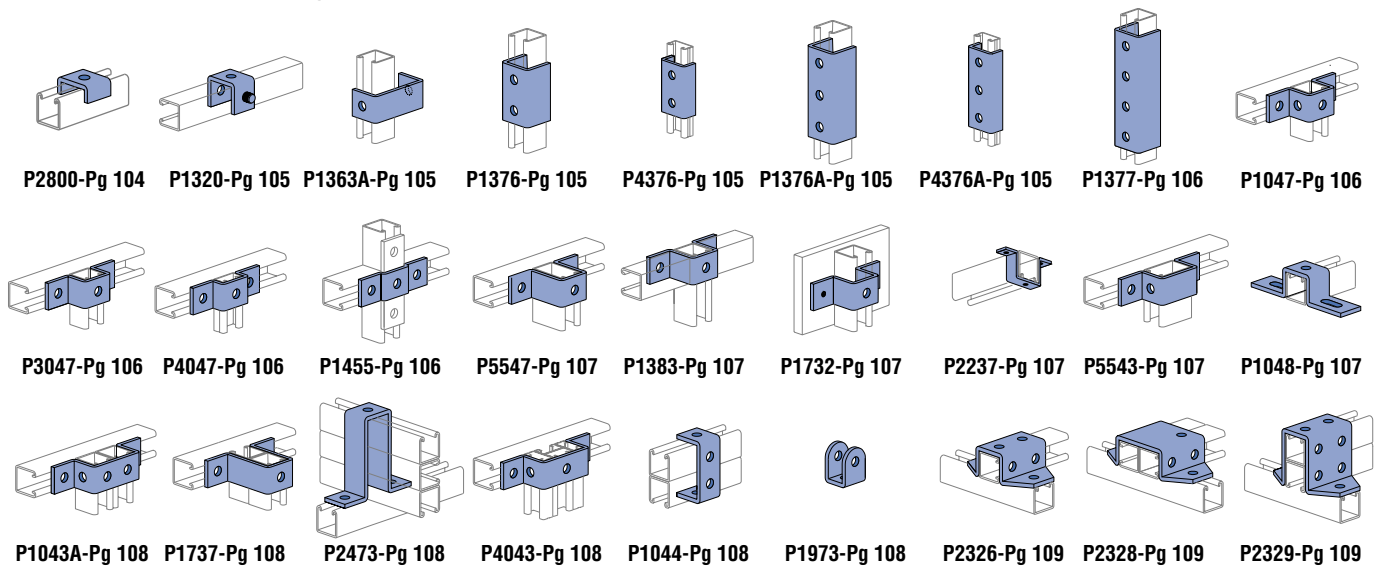
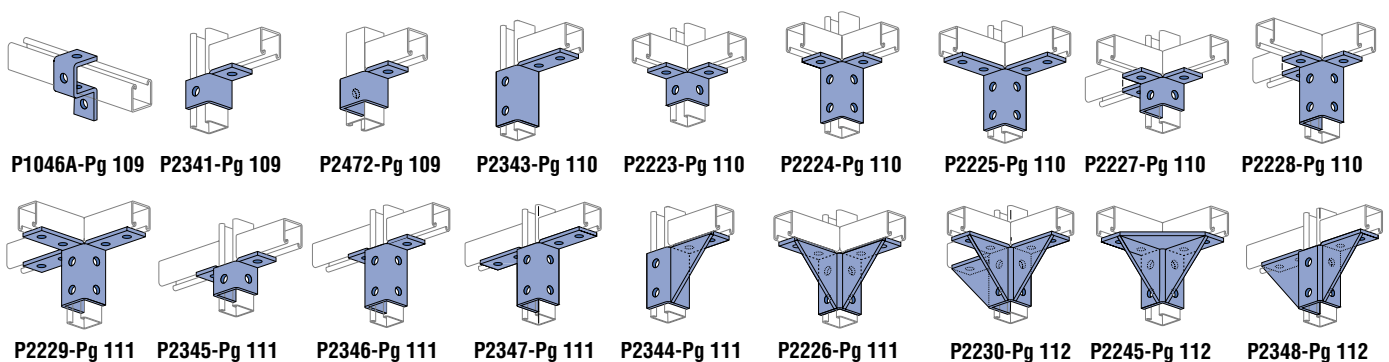
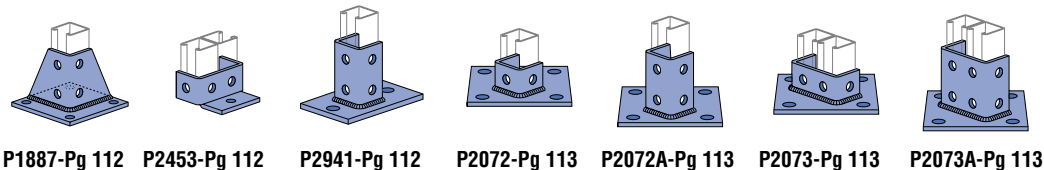


Flat Plate Fittings



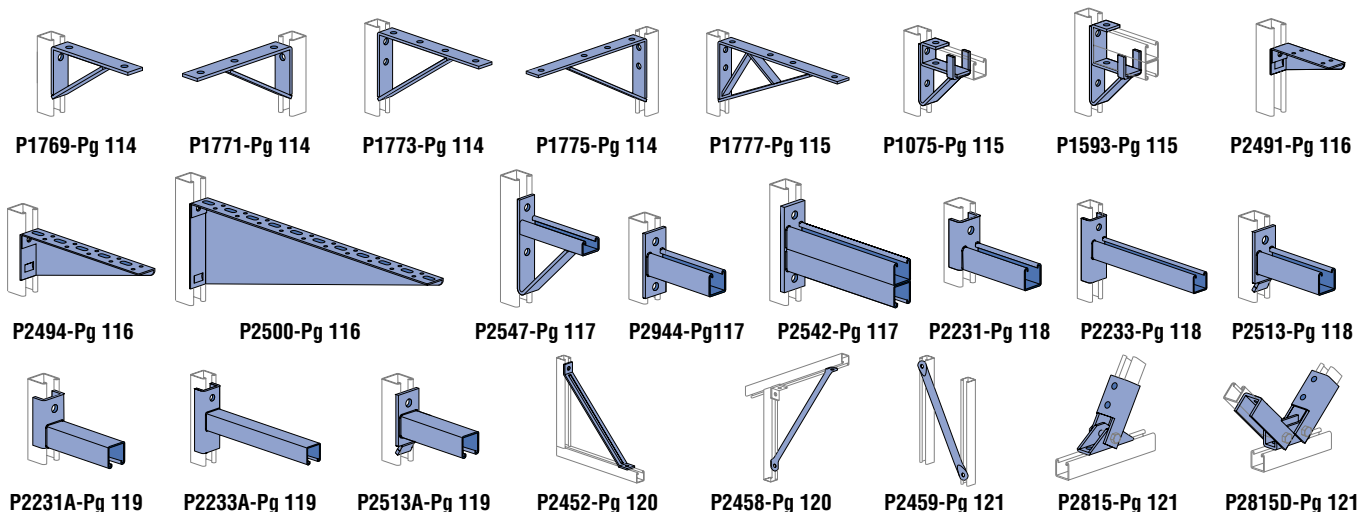
Angle Fittings



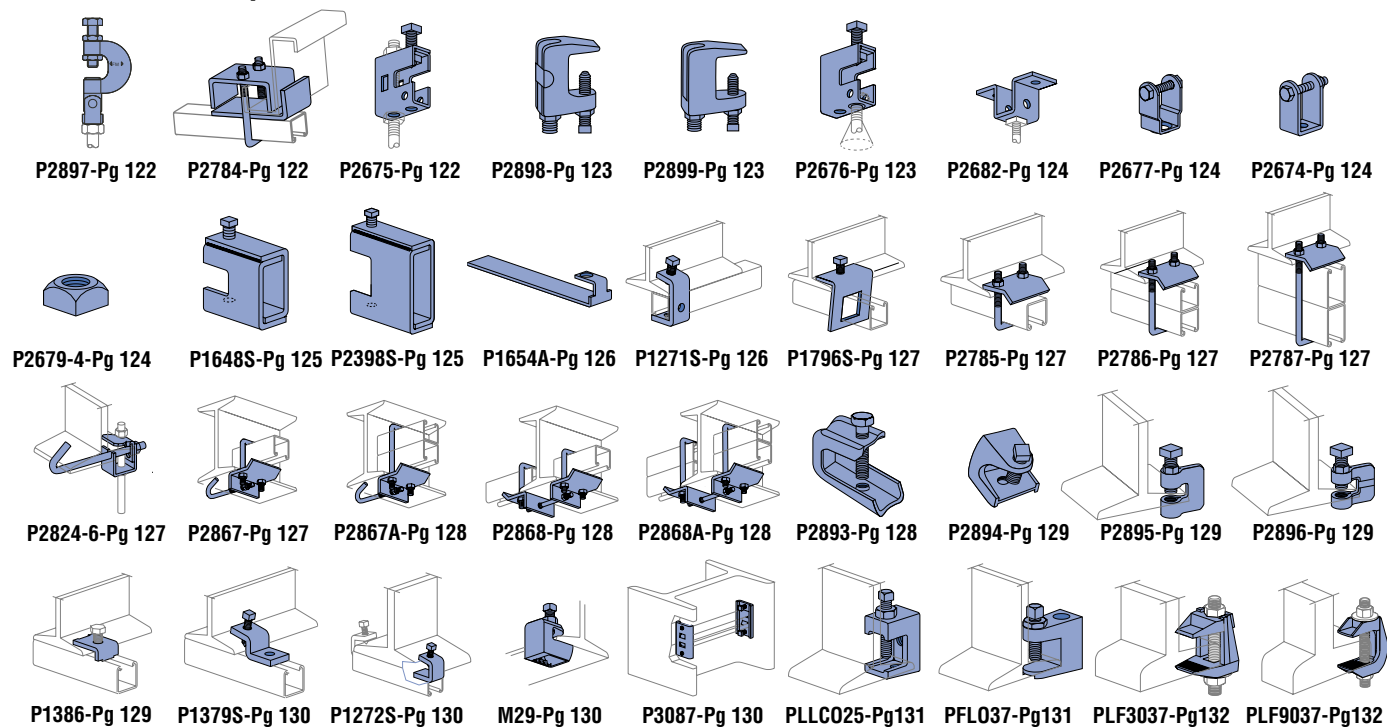
"Z" Shape Fittings**"U" Shape Fittings****Wing Shape Fittings****Post Bases**



Brackets and Brace Fittings



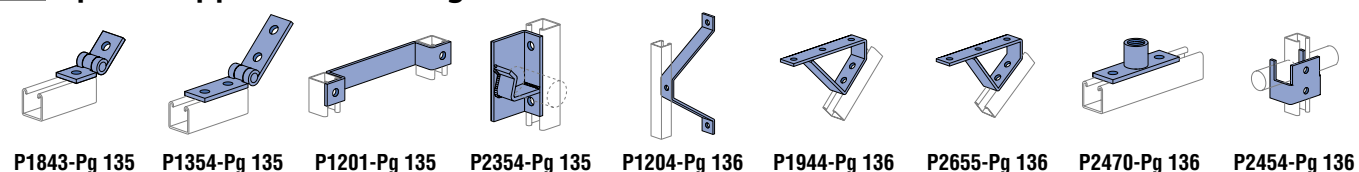
Beam Clamps



Trolley Assemblies

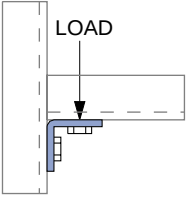


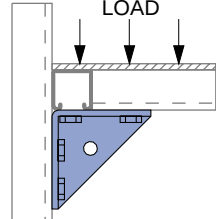
Special Applications Fittings

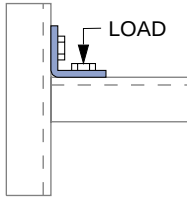


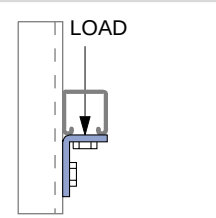
DESIGN LOAD DATA FOR TYPICAL UNISTRUT CHANNEL CONNECTIONS

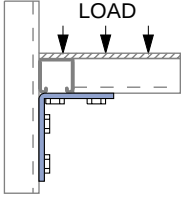
90° Fittings (When used in position shown)

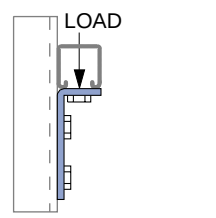
Load – P1026		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	1,500	1,000	750
	kg	680.4	453.6	340.2

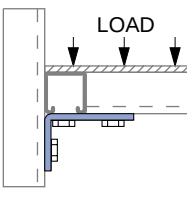
Load – P2484		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	3,000	2,000	1,500
	kg	1,360.8	907.2	680.4

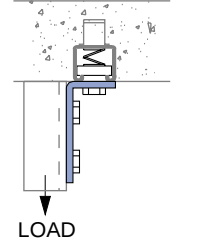
Load – P1026		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	1,000	650	500
	kg	453.6	294.8	226.8

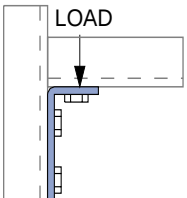
Load – P1068		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	500	500	500
	kg	226.8	226.8	226.8

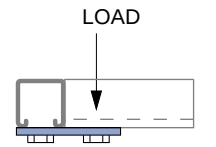
Load – P1325, P2235		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	2,000	2,000	1,500
	kg	907.2	907.2	680.4

Load – P1326		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	500	500	500
	kg	226.8	226.8	226.8

Load – P1458, P1579		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	1,500	1,000	1,000
	kg	680.4	453.6	453.6

Load – P1346		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	1,200	1,200	1,000
	kg	544.3	544.3	453.6

Load – P1346		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	2,000	1,500	900
	kg	907.2	680.4	408.2

Load – P1065		Channel Thickness		
		12 ga.	14 ga.	16 ga.
	Lbs	1,000	800	600
	kg	453.6	362.9	272.2

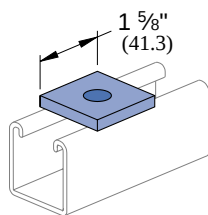
Note:

- (1) Both ends of beams supported.
- (2) Load data is based on P1010 nut and ½" bolt.
- (3) Safety factor = 2½ based on ultimate strength of connection.



P1062, P1063, P1064, P1964, P2471, P2490

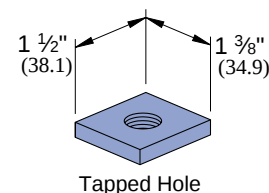
Part Number	Bolt Size	Hole Size	Wt/100 pcs Lbs (kg)
P1062	5/16"	1 1/32"	18 8.2
P1063	3/8"	7/16"	18 8.2
P1064	1/2"	9/16"	17 7.7
P1964	5/8"	1 1/16"	16 7.3
P2471	3/4"	1 3/16"	15 6.8
P2490	7/8"	1 5/16"	14 6.4



P1959, P1960, P1961

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

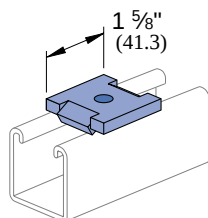
MATERIAL: 3/8" (9.5 mm) thick



Tapped Hole

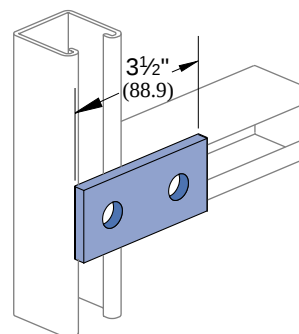
P2862, 2863, 2864

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



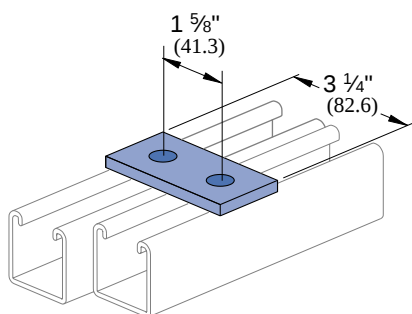
P1065

Wt/100 pcs: 38 Lbs (17.2 kg)



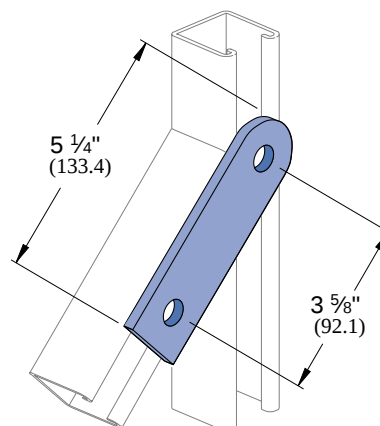
P1924

Wt/100 pcs: 35 Lbs (15.9 kg)



P2325

Wt/100 pcs: 55 Lbs (24.9 kg)

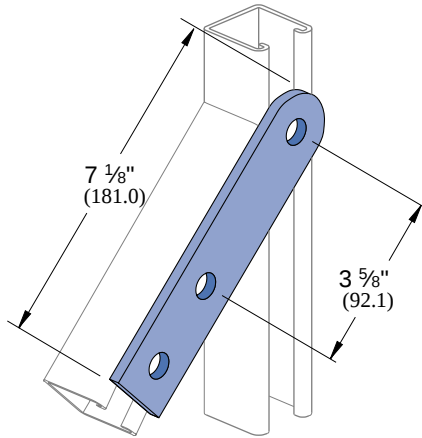


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

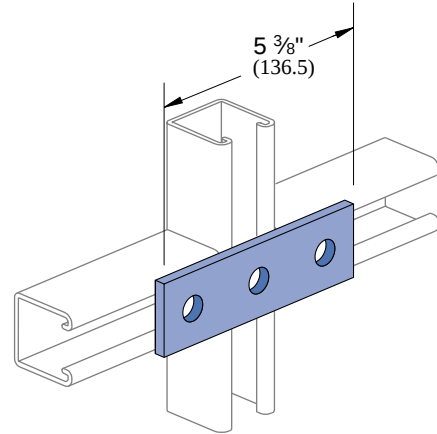
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P2324

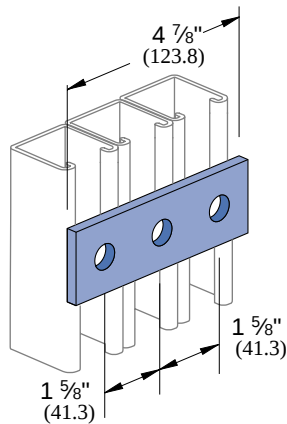
Wt/100 pcs: 75 Lbs (34.0 kg)


P1066

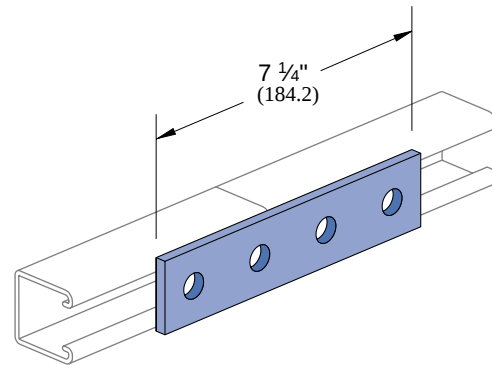
Wt/100 pcs: 56 Lbs (25.4 kg)


P1925

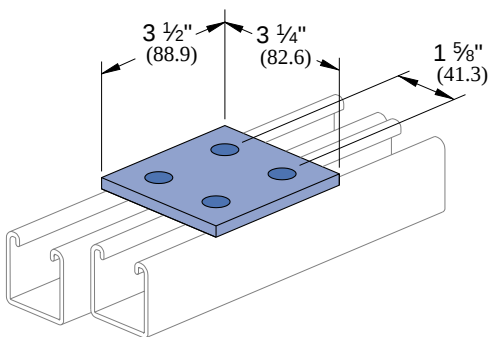
Wt/100 pcs: 50 Lbs (22.7 kg)


P1067

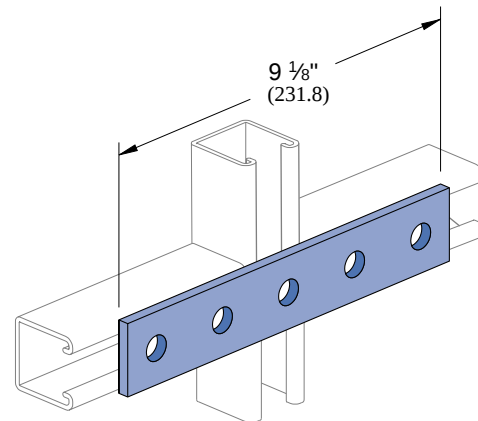
Wt/100 pcs: 78 Lbs (35.4 kg)


P2079

Wt/100 pcs: 73 Lbs (33.1 kg)


P1941

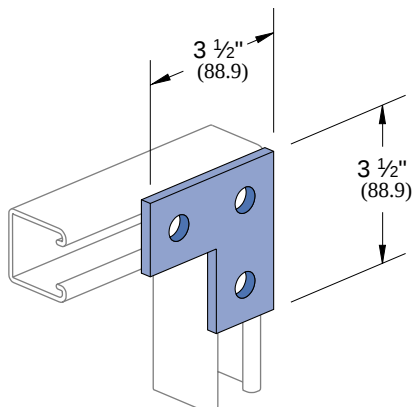
Wt/100 pcs: 94 Lbs (42.6 kg)


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



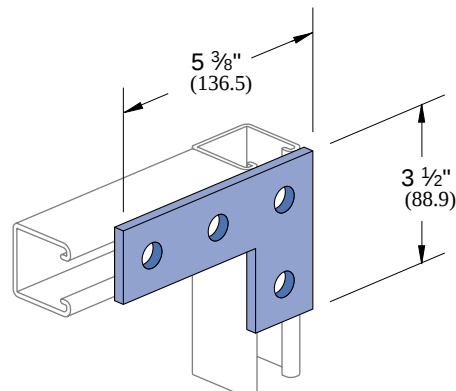
P1036

Wt/100 pcs: 58 Lbs (26.3 kg)



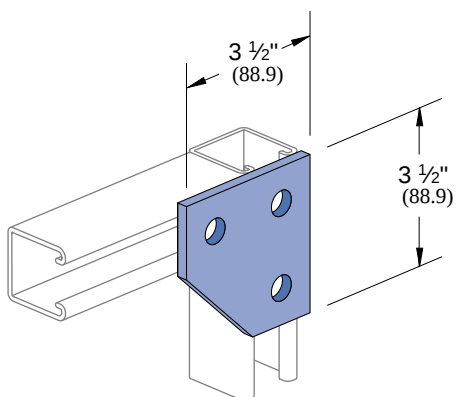
P1380 A

Wt/100 pcs: 80 Lbs (36.3 kg)



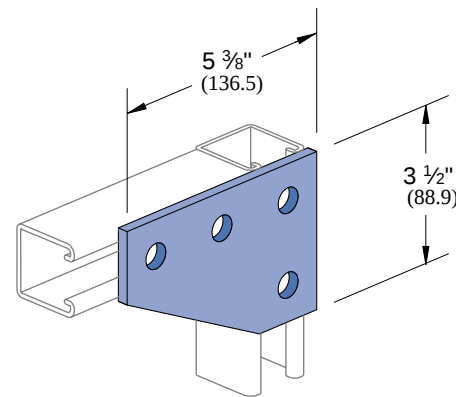
P1334

Wt/100 pcs: 70 Lbs (31.8 kg)



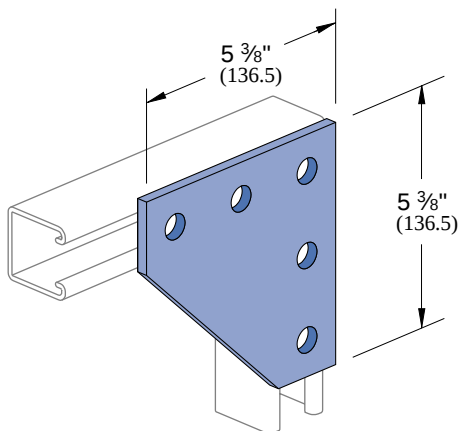
P1380

Wt/100 pcs: 105 Lbs (47.6 kg)



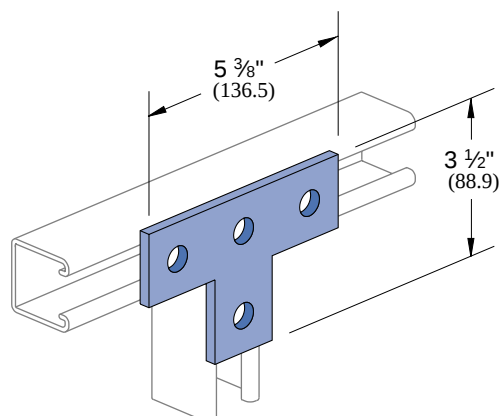
P1873

Wt/100 pcs: 150 Lbs (68.0 kg)



P1031

Wt/100 pcs: 80 Lbs (36.3 kg)

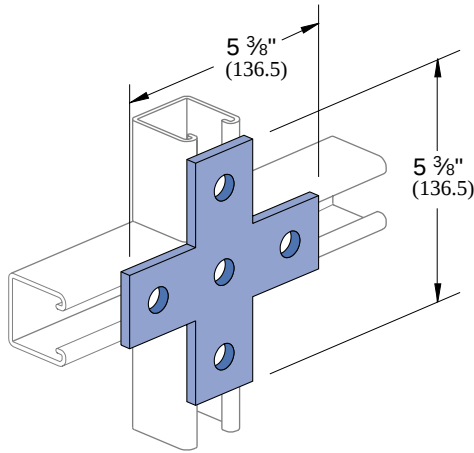


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

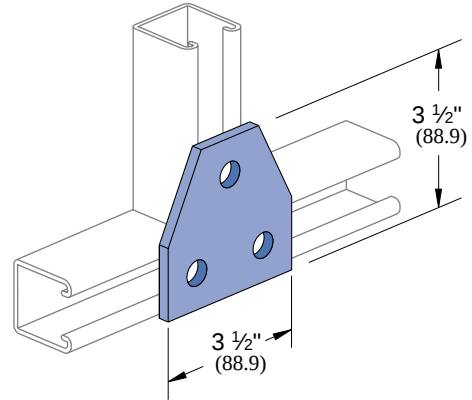
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P1028

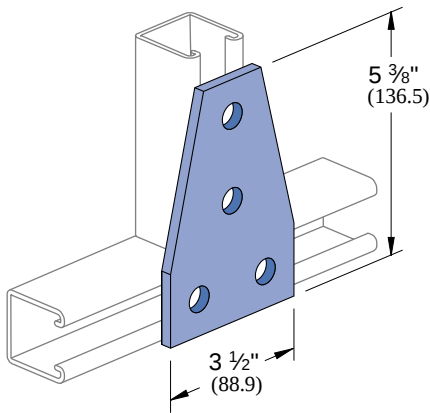
Wt/100 pcs: 105 Lbs (47.6 kg)


P1356

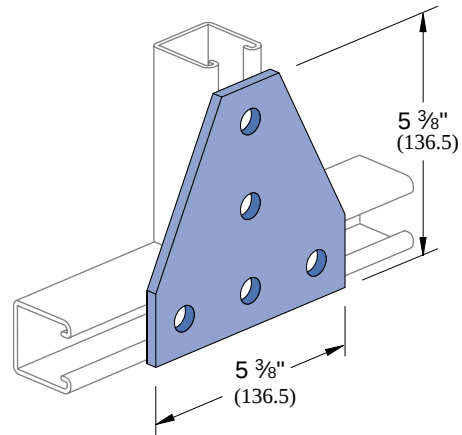
Wt/100 pcs: 70 Lbs (31.8 kg)


P1358

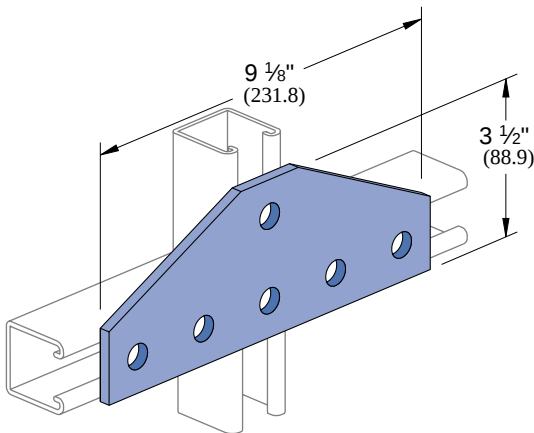
Wt/100 pcs: 105 Lbs (47.6 kg)


P1726

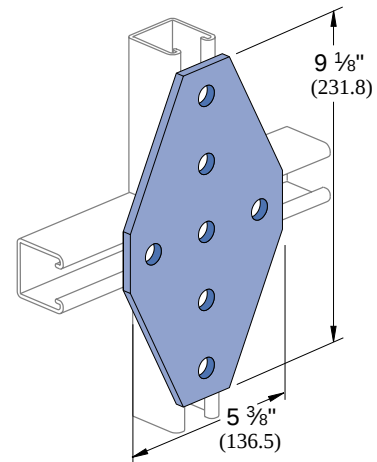
Wt/100 pcs: 148 Lbs (67.1 kg)


P1953

Wt/100 pcs: 176 Lbs (79.8 kg)

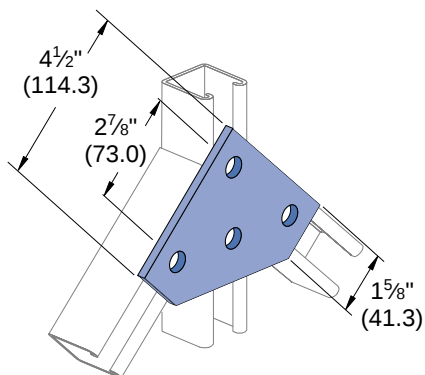

P1950

Wt/100 pcs: 240 Lbs (108.9 kg)


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

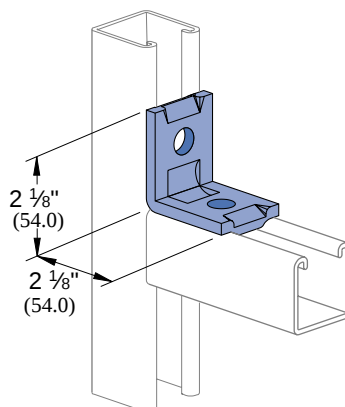
P1962

Wt/100 pcs: 112 Lbs (50.8 kg)



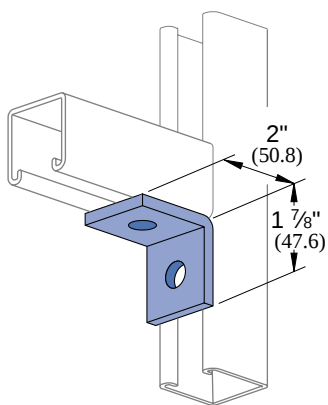
P2626

Wt/100 pcs: 40 Lbs (18.1 kg)



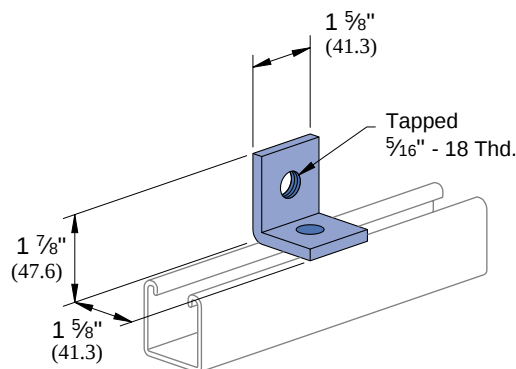
P1026

Wt/100 pcs: 38 Lbs (17.2 kg)



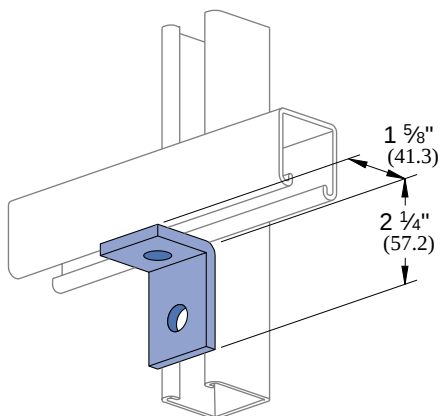
P1723

Wt/100 pcs: 34 Lbs (15.4 kg)

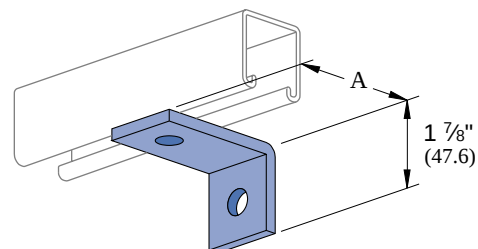


P1068

Wt/100 pcs: 38 Lbs (17.2 kg)



P1281, P1282, P1283



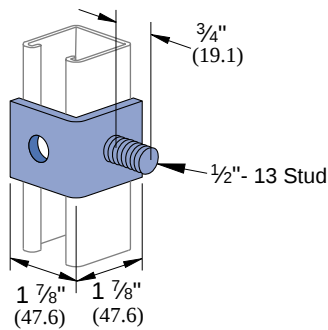
Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)
P1281	3 76.2	49 22.2
P1282	3 1/2 88.9	54 24.5
P1283	4 101.6	61 27.7

Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

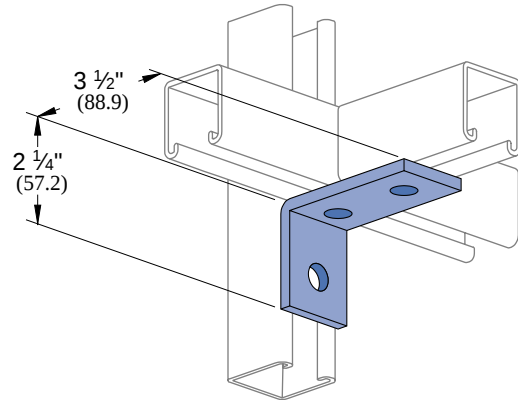
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P1315

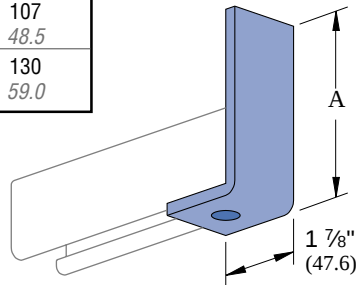
Wt/100 pcs: 45 Lbs (20.4 kg)


P1458

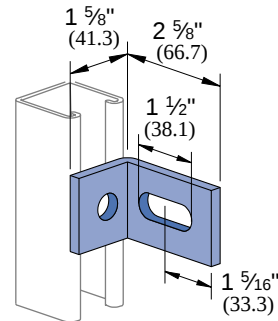
Wt/100 pcs: 58 Lbs (26.3 kg)


P1538A thru P1538D

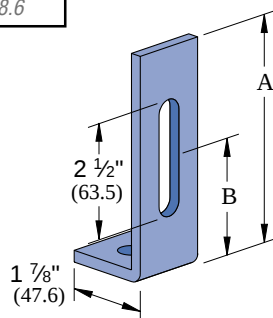
Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)
P1538A	3 7/8 98.4	61 27.7
P1538B	5 7/8 149.2	84 38.1
P1538C	7 7/8 200.0	107 48.5
P1538D	9 7/8 250.8	130 59.0


P1750

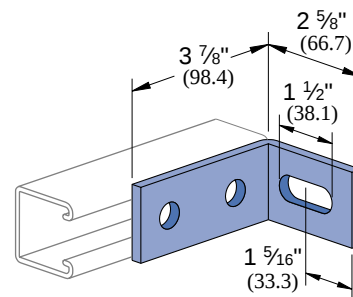
Wt/100 pcs: 38 Lbs (17.2 kg)


P1498, P1499

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


P1747

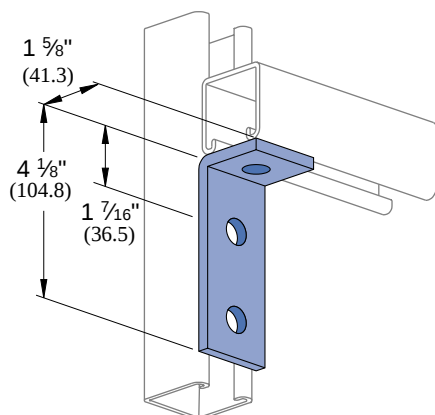
Wt/100 pcs: 66 Lbs (29.9 kg)


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



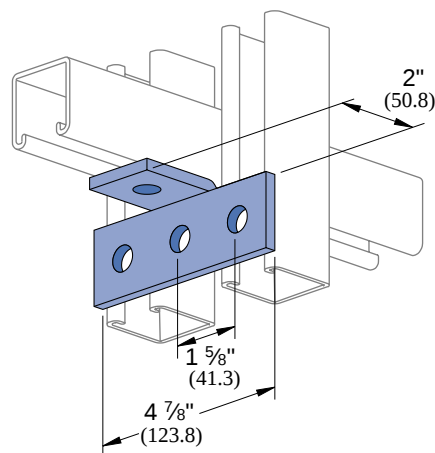
P1326

Wt/100 pcs: 58 Lbs (26.3 kg)



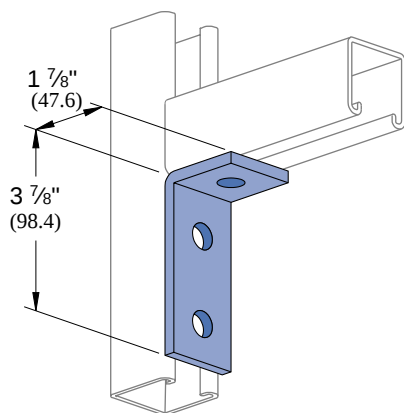
P1821

Wt/100 pcs: 71 Lbs (32.2 kg)



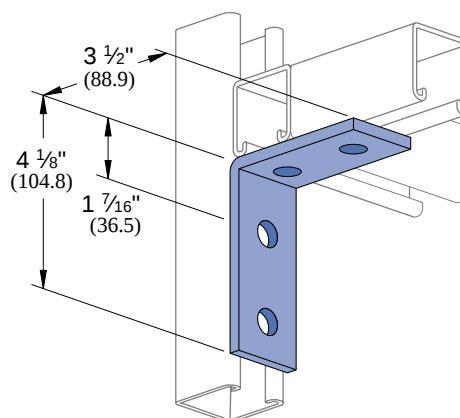
P1346

Wt/100 pcs: 58 Lbs (26.3 kg)



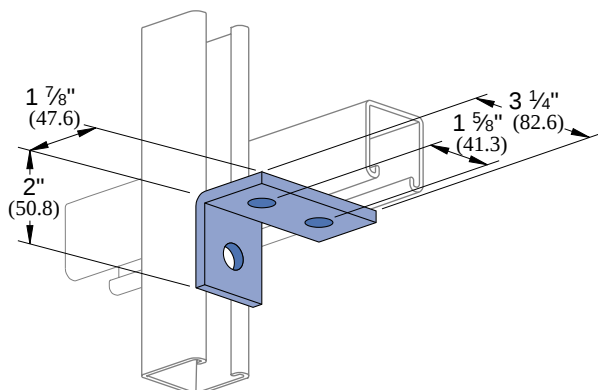
P1325

Wt/100 pcs: 78 Lbs (35.4 kg)



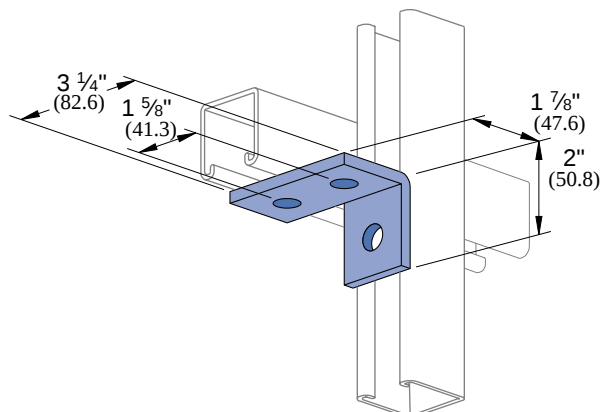
P1822

Wt/100 pcs: 55 Lbs (24.9 kg)



P1823

Wt/100 pcs: 55 Lbs (24.9 kg)

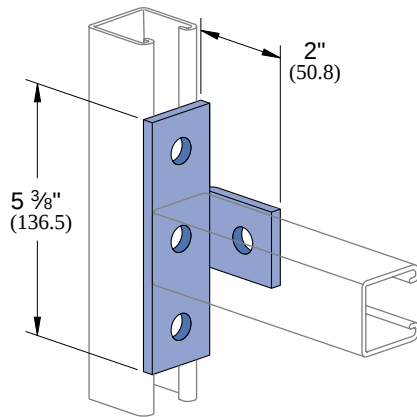


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

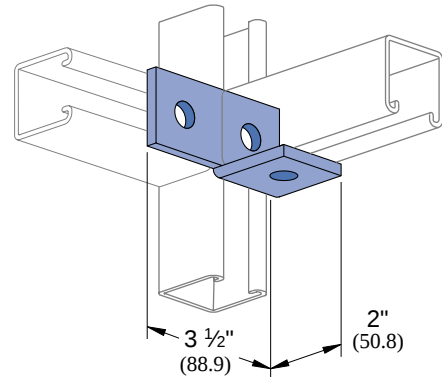
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P1033

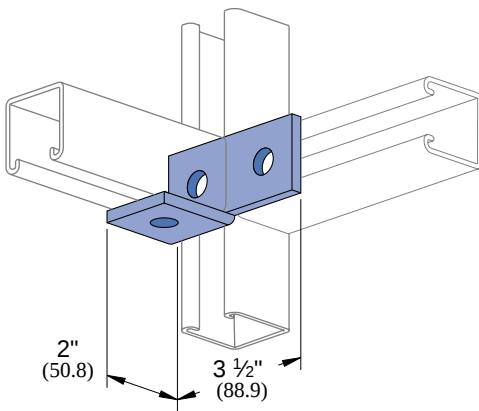
Wt/100 pcs: 80 Lbs (36.3 kg)


P1037

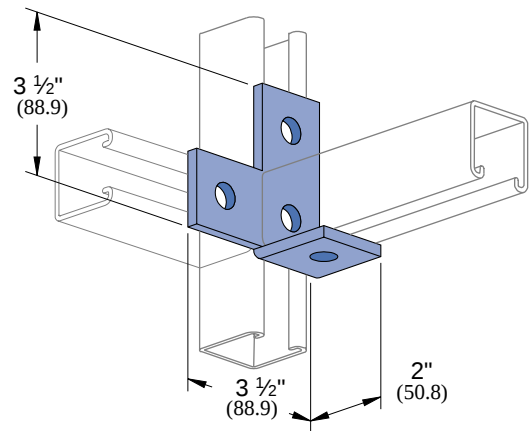
Wt/100 pcs: 58 Lbs (26.3 kg)


P1038

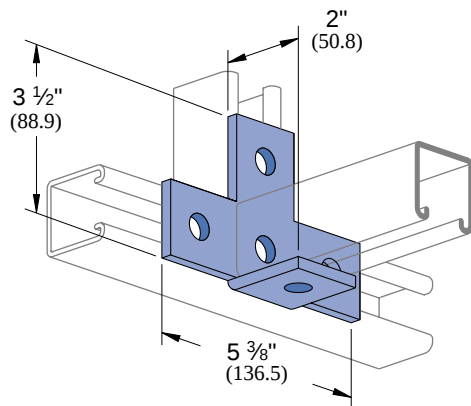
Wt/100 pcs: 58 Lbs (26.3 kg)


P1034

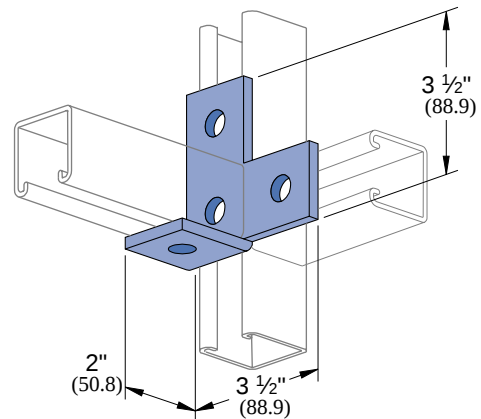
Wt/100 pcs: 80 Lbs (36.3 kg)


P1029

Wt/100 pcs: 105 Lbs (47.6 kg)


P1035

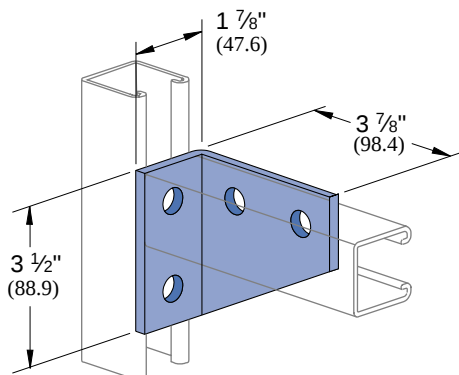
Wt/100 pcs: 80 Lbs (36.3 kg)


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



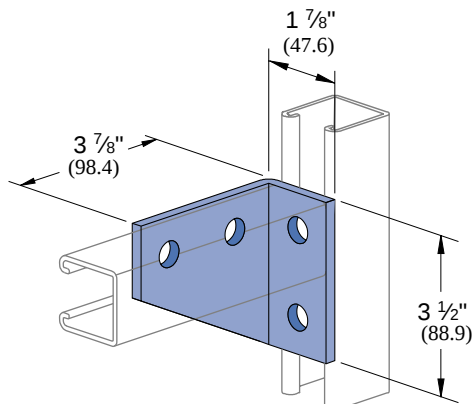
P1290

Wt/100 pcs: 101 Lbs (45.8 kg)



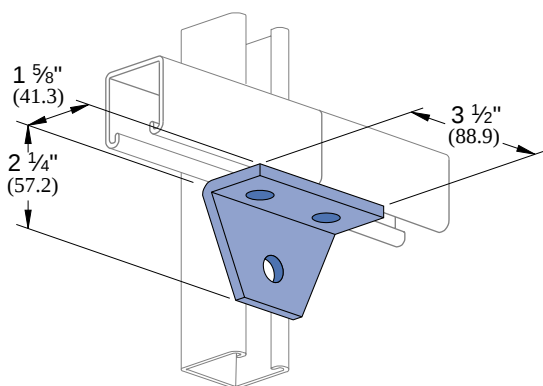
P1291

Wt/100 pcs: 101 Lbs (45.8 kg)



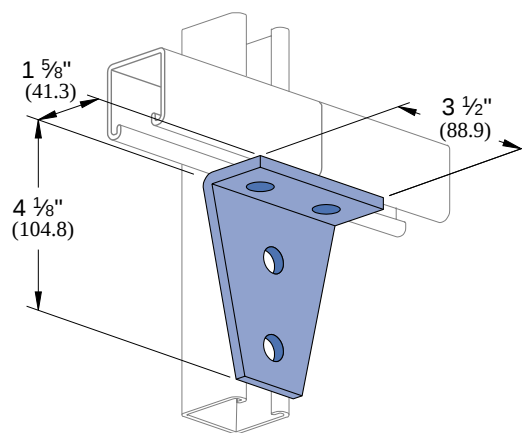
P1357

Wt/100 pcs: 70 Lbs (31.8 kg)



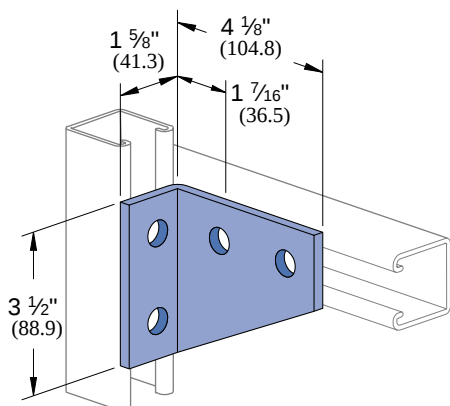
P1359

Wt/100 pcs: 105 Lbs (47.6 kg)



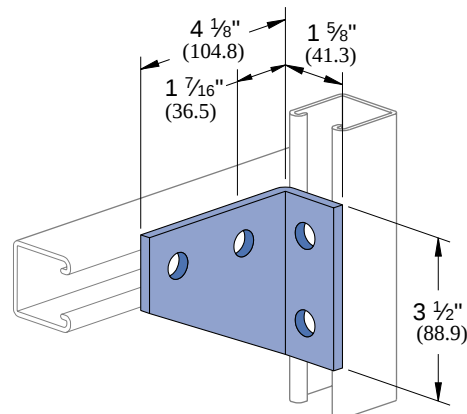
P1381

Wt/100 pcs: 105 Lbs (47.6 kg)



P1382

Wt/100 pcs: 105 Lbs (47.6 kg)

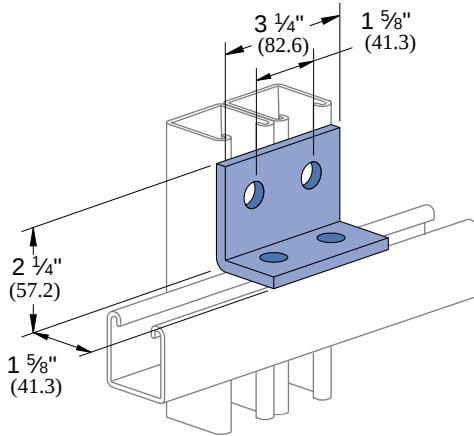


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

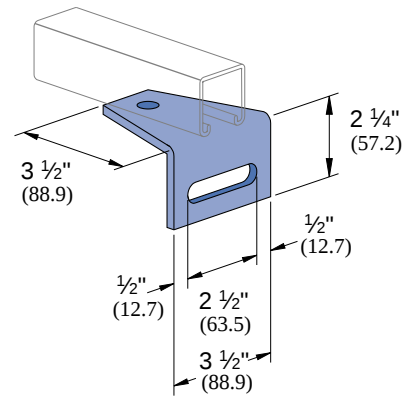
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P1934

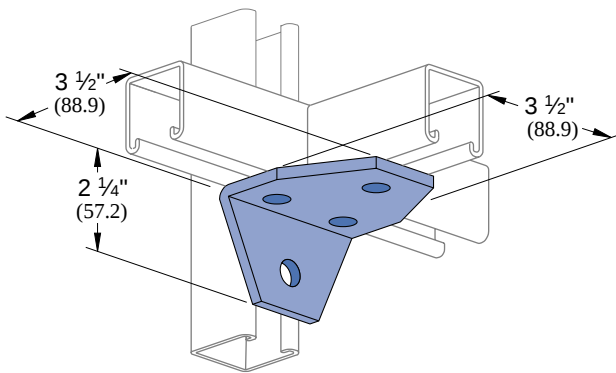
Wt/100 pcs: 75 Lbs (34.0 kg)


P1713

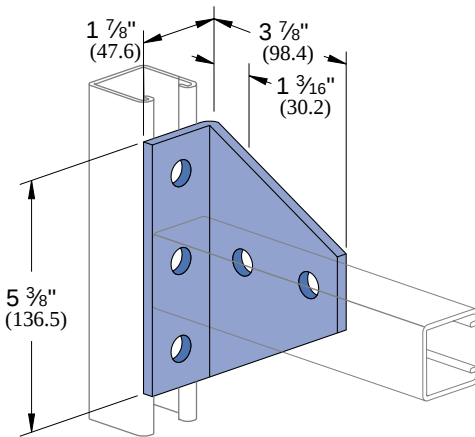
Wt/100 pcs: 97 Lbs (44.0 kg)


P1579

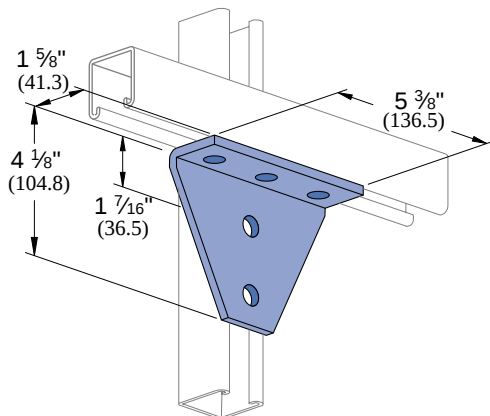
Wt/100 pcs: 103 Lbs (46.7 kg)


P1727

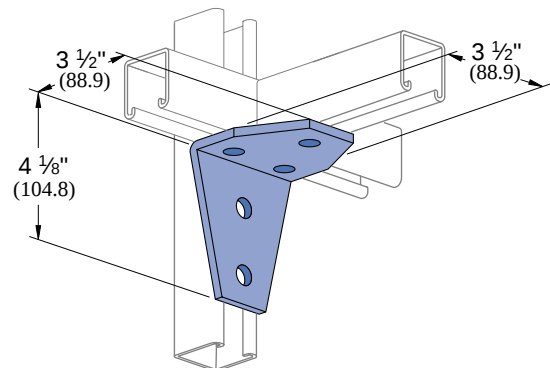
Wt/100 pcs: 154 Lbs (69.9 kg)


P1728

Wt/100 pcs: 154 Lbs (69.9 kg)

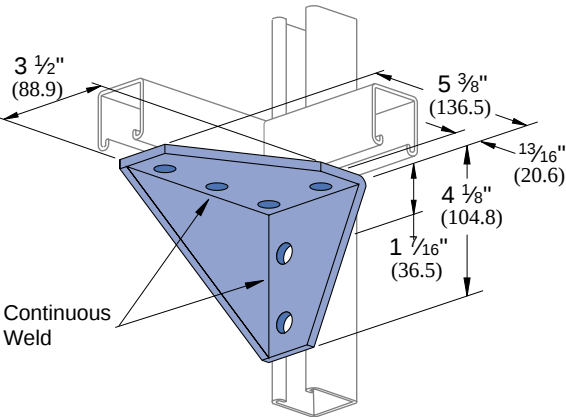

P2235

Wt/100 pcs: 135 Lbs (61.2 kg)


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

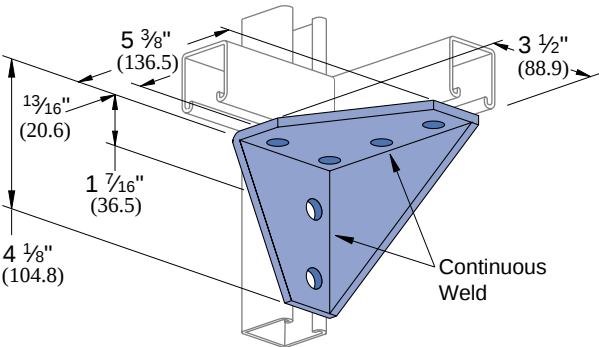
P1956

Wt/100 pcs: 230 Lbs (104.3 kg)



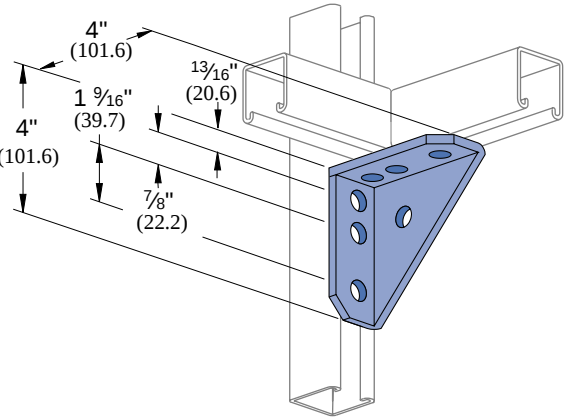
P1957

Wt/100 pcs: 230 Lbs (104.3 kg)



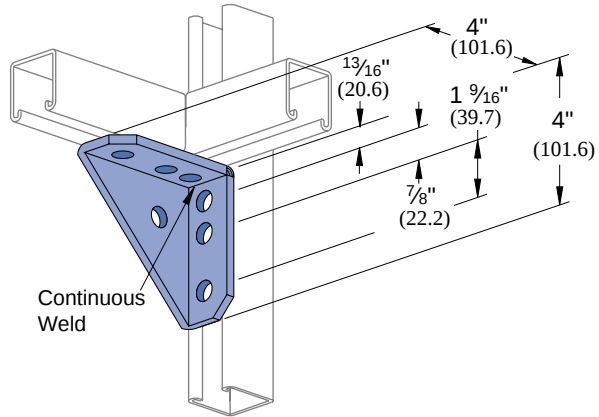
P2484

Wt/100 pcs: 134 Lbs (60.8 kg)

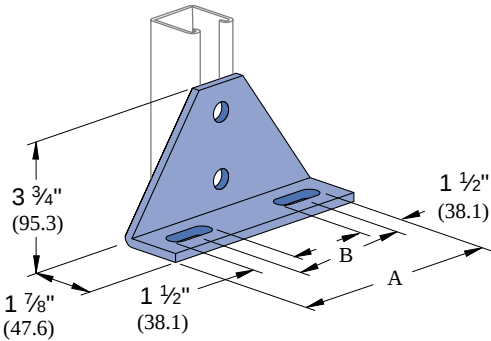


P2484W

Wt/100 pcs: 134 Lbs (60.8 kg)



P1130, P1131



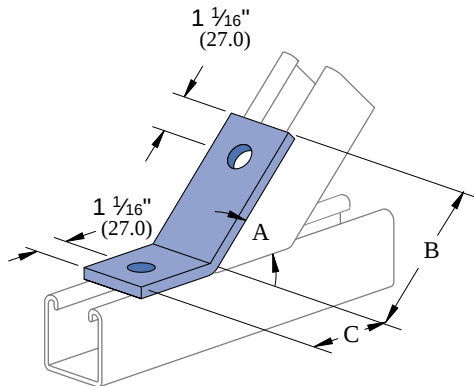
Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P1130	6 5/8 168.3	4 101.6	190 86.2
P1131	8 5/8 219.1	6 152.4	242 109.8

Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6 mm); Hole Spacing - On Center: 1 7/8" (47.6 mm); Width: 1 5/8"(41mm); Thickness: 1/4" (6.4mm)

P1546, P2094 thru P2100

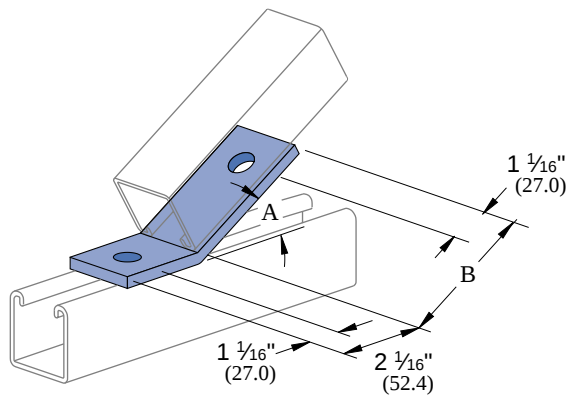
Wt/100 pcs: 58 Lbs (26.3 kg)



Part Number	"A" Degree (rad)	"B" In (mm)	"C" In (mm)
P2094	82½° 1.44	3⅞ 90.5	1⅞ 42.9
P2095	75° 1.31	3⅞ 90.5	1⅞ 42.9
P2096	67½° 1.18	3½ 88.9	1¾ 44.5
P2097	60° 1.05	3⅜ 85.7	1⅞ 47.6
P2098	52½° 0.92	3¼ 82.6	2⅞ 52.4
P1546	45° 0.79	3 76.2	2⅞ 58.7
P2099	37½° 0.65	3½ 88.9	1⅞ 46.0
P2100	37½° 0.65	2⅞ 68.3	2⅞ 66.7

P2101 thru P2104

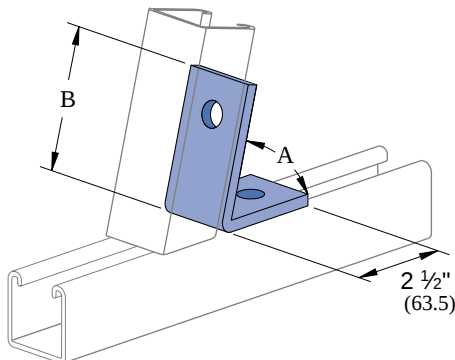
Wt/100 pcs: 58 Lbs (26.3 kg)



Part Number	"A" Degree (rad)	"B" In (mm)
P2101	30° 0.52	3¼ 82.6
P2102	22½° 0.39	3⅞ 84.1
P2103	15° 0.26	3⅞ 84.1
P2104	7½° 0.13	3⅞ 84.1

P1186, P2105 thru P2110

Wt/100 pcs: 58 Lbs (26.3 kg)



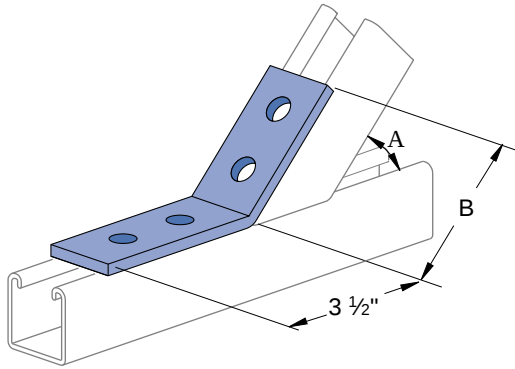
Part Number	"A" Degree (rad)	"B" In (mm)
P2105	82½° 1.44	3⅞ 81.0
P2106	75° 1.31	3⅞ 81.0
P2107	67½° 1.18	3⅞ 79.4
P2108	60° 1.05	3⅞ 79.4
P2109	52½° 0.92	3⅞ 77.8
P1186	45° 0.79	3⅞ 79.4
P2110	37½° 0.65	3 76.2

Standard Dimensions for 1½" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6 mm); Hole Spacing - On Center: 1⅞" (47.6 mm); Width: 1½" (41mm); Thickness: ¼" (6.4mm)

P2260 thru P2270

Wt/100 pcs: 78 Lbs (35.4 kg)

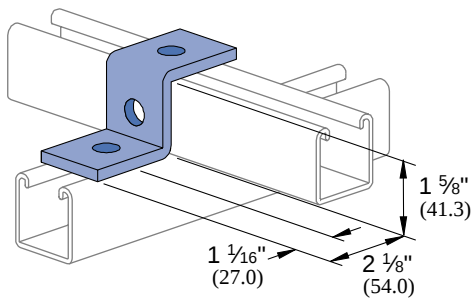


Part Number	"A" Degree (rad)	"B" In (mm)
P2270	82½° 1.44	3⅝ 91.1
P2269	75° 1.31	3⅝ 91.1
P2268	67½° 1.18	3⅝ 91.1
P2267	60° 1.05	3⅞ 93.7
P2266	52½° 0.92	3⅞ 93.7
P2265	45° 0.79	3⅞ 93.7

Part Number	"A" Degree (rad)	"B" In (mm)
P2264	37½° 0.65	3⅞ 93.7
P2263	30° 0.52	3⅞ 93.7
P2262	22½° 0.39	3¾ 95.3
P2261	15° 0.26	3¾ 95.3
P2260	7½° 0.13	3¾ 95.3

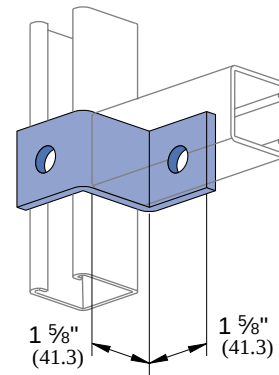
P1045

Wt/100 pcs: 55 Lbs (24.9 kg)



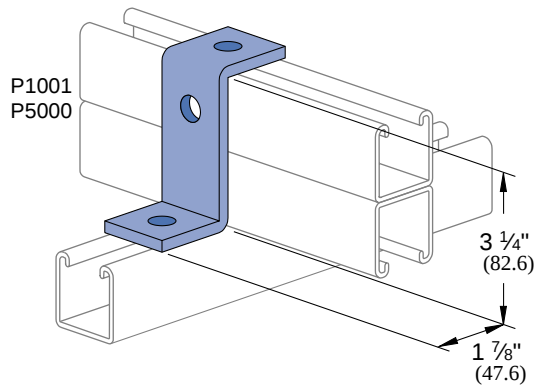
P1347

Wt/100 pcs: 55 Lbs (24.9 kg)



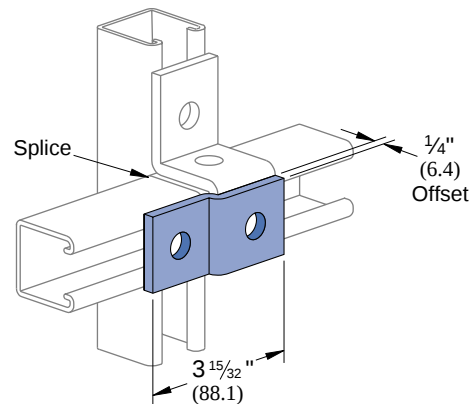
P1453

Wt/100 pcs: 70 Lbs (31.8 kg)



P1454

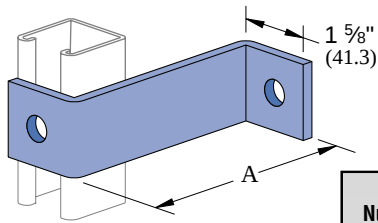
Wt/100 pcs: 38 Lbs (17.2 kg)



Standard Dimensions for 1½" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1½"(41mm); **Thickness:** ¼" (6.4mm)

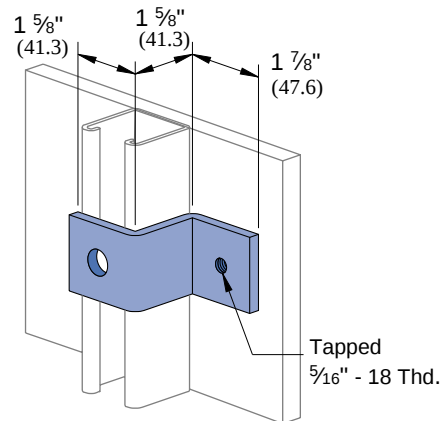
P1479A thru P1479E



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

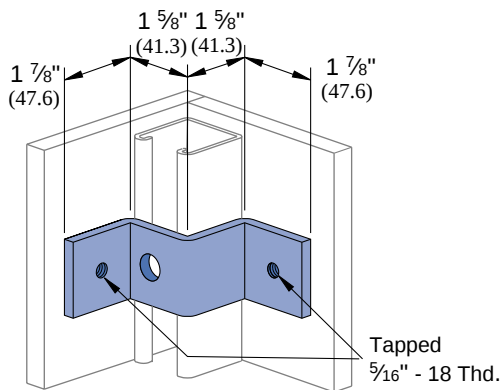
P1730

Wt/100 pcs: 54 Lbs (24.5 kg)



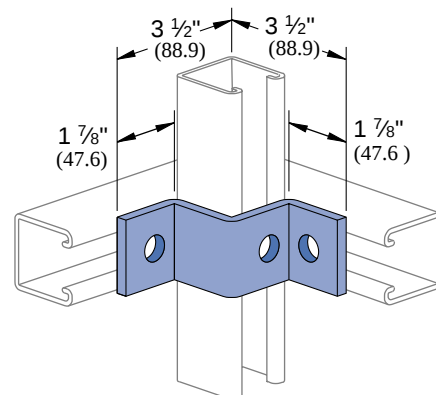
P1734

Wt/100 pcs: 70 Lbs (31.8 kg)



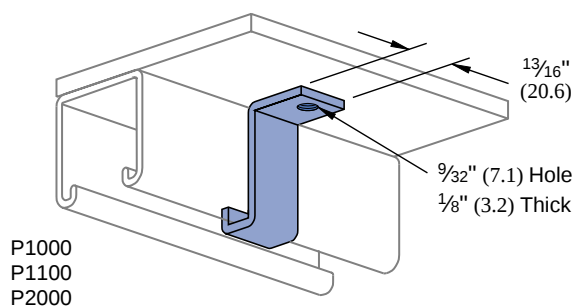
P1736

Wt/100 pcs: 70 Lbs (31.8 Kg)



P2360

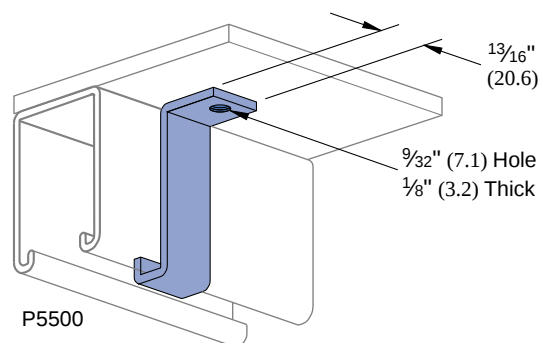
Wt/100 pcs: 9 Lbs (4.1 kg)



P1000
P1100
P2000

P5560

Wt/100 pcs: 11 Lbs (5.0 kg)



P5500

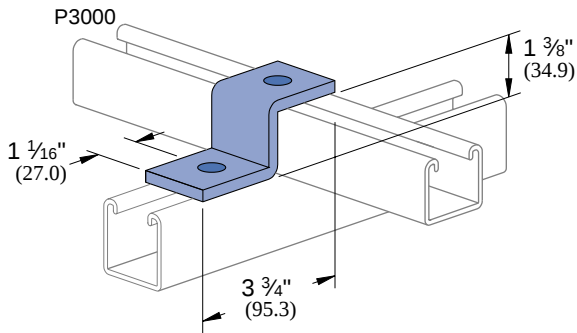
Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



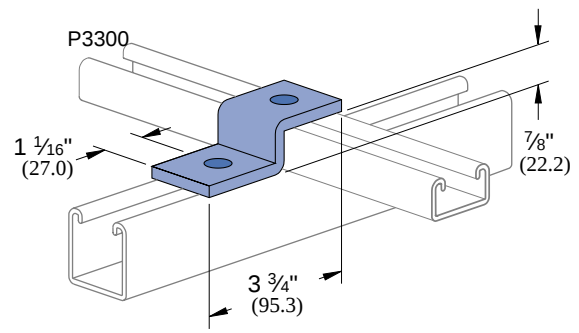
P3045

Wt/100 pcs: 53 Lbs (24.0 kg)



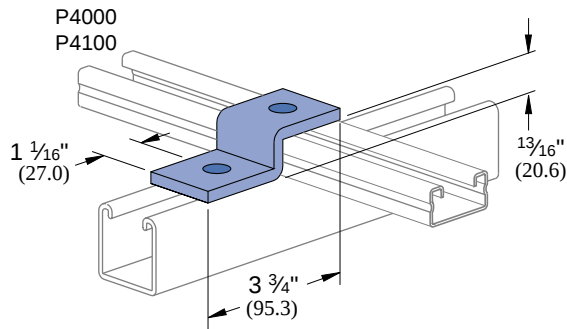
P3345

Wt/100 pcs: 47 Lbs (21.3 kg)



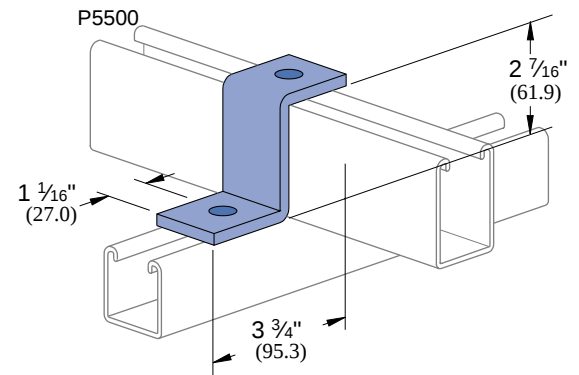
P4045

Wt/100 pcs: 47 Lbs (21.3 kg)



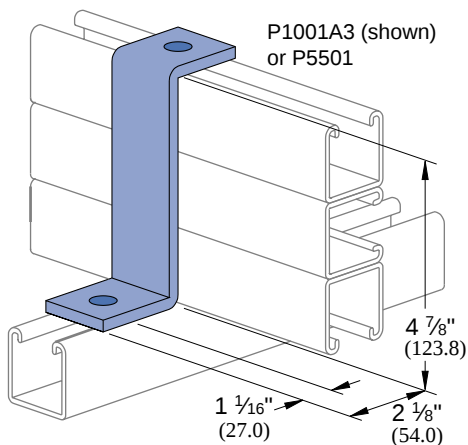
P5545

Wt/100 pcs: 67 Lbs (30.4 kg)

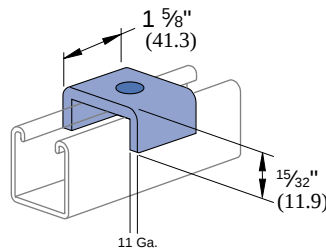


P2469

Wt/100 pcs: 93 Lbs (42.2 kg)



P2800



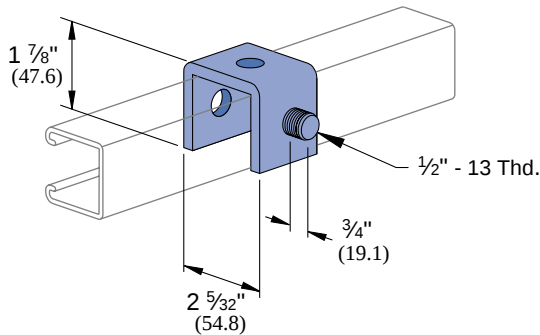
Part Number	Bolt Size In	Wt/100 pcs Lbs (kg)
P2800-25	1/4"	14 6.4
P2800-37	3/8"	14 6.4
P2800-50	1/2"	13 5.9
P2800-62	5/8"	13 5.9
P2800-75	3/4"	13 5.9

Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

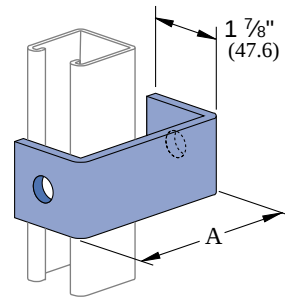
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P1320

Wt/100 pcs: 63 Lbs (28.6 kg)



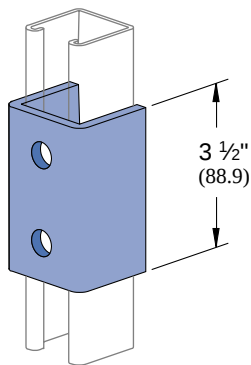
P1363A thru P1363E



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

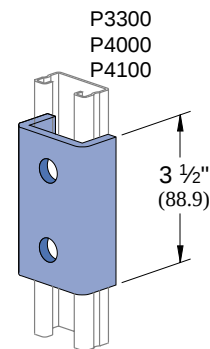
P1376

Wt/100 pcs: 128 Lbs (58.1 kg)



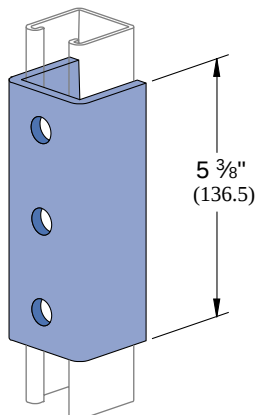
P4376

Wt/100 pcs: 85 Lbs (38.6 kg)



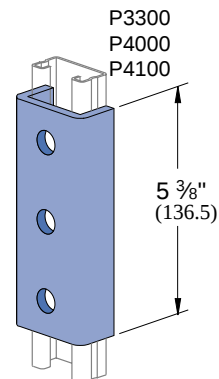
P1376A

Wt/100 pcs: 197 Lbs (89.4 kg)



P4376A

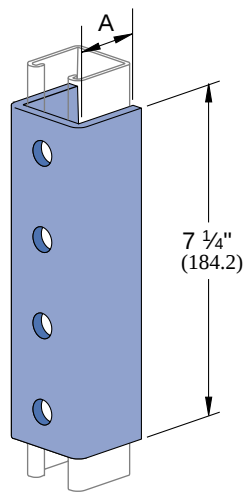
Wt/100 pcs: 130 Lbs (59.0 kg)



Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

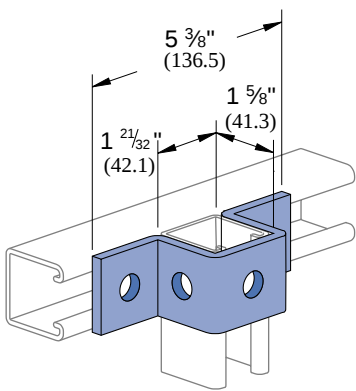
P1377, P4377, P5077, P5577



Part Number	For Use With	Wt/100 pcs Lbs (kg)
P1377	P1000, P1100, P2000	265 120.2
P4377	P3300, P4000, P4100	176 79.8
P5077	P5000	390 176.9
P5577	P5500	310 140.6

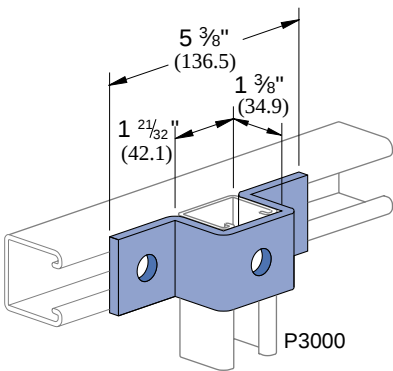
P1047

Wt/100 pcs: 88 Lbs (39.9 kg)



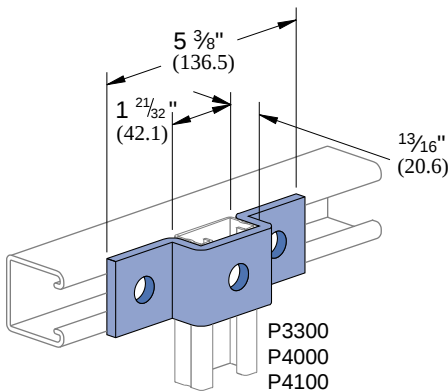
P3047

Wt/100 pcs: 84 Lbs (38.1 kg)



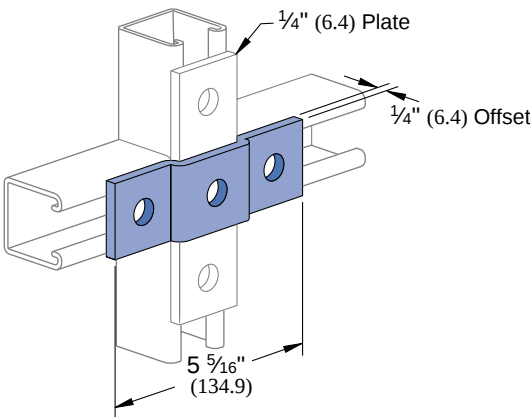
P4047

Wt/100 pcs: 71 Lbs (32.2 kg)



P1455

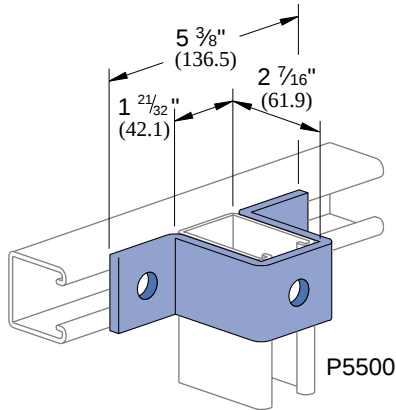
Wt/100 pcs: 58 Lbs (26.3 kg)



Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)	
Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6 mm); Hole Spacing - On Center: 1 7/8" (47.6 mm); Width: 1 5/8"(41mm); Thickness: 1/4" (6.4mm)	

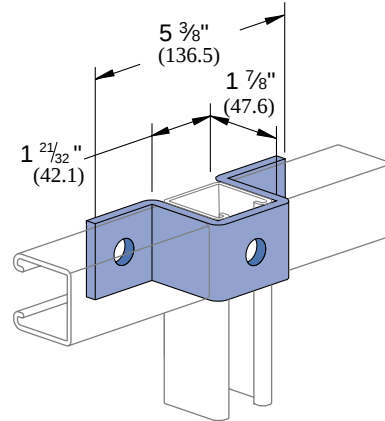
P5547

Wt/100 pcs: 108 Lbs (49.0 kg)



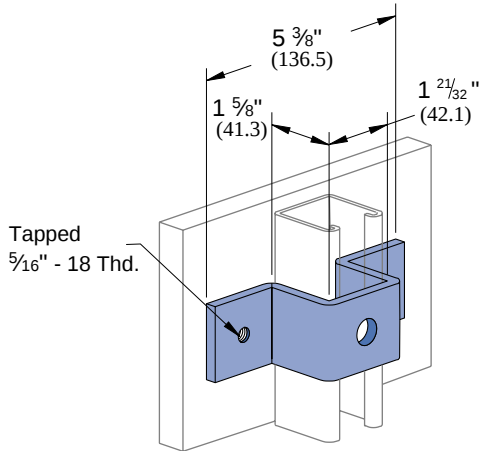
P1383

Wt/100 pcs: 95 Lbs (43.1 kg)



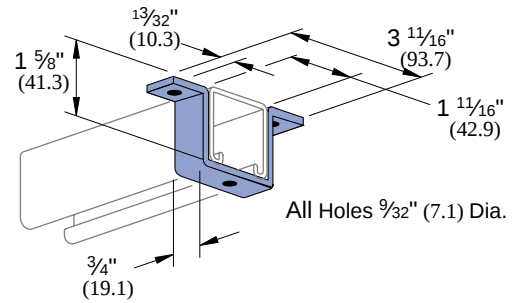
P1732

Wt/100 pcs: 88 Lbs (39.9 kg)



P2237

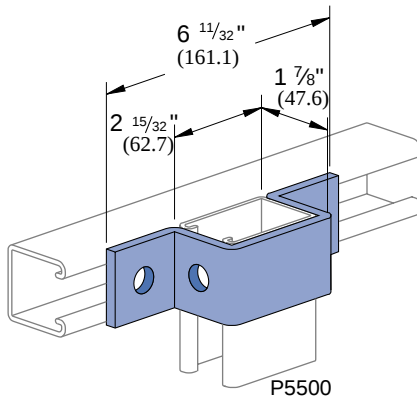
Wt/100 pcs: 18 Lbs (8.2 kg)



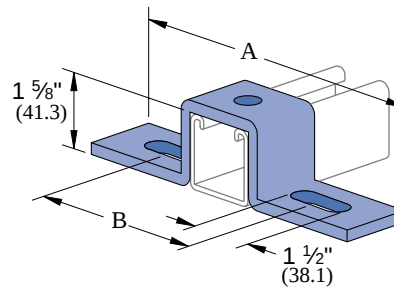
Material: 1/8" (3.2) thick.

P5543

Wt/100 pcs: 97 Lbs (44.0 kg)



P1048, P1049, P1050



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

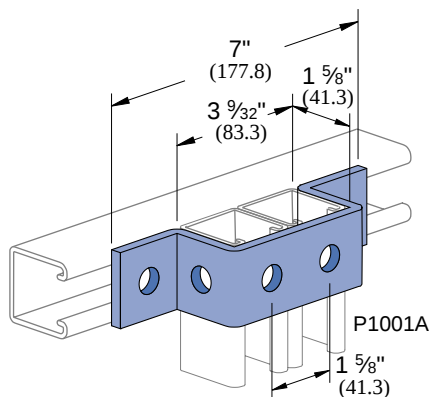
Standard Dimensions for 1 1/2" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 1 3/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



P1043A

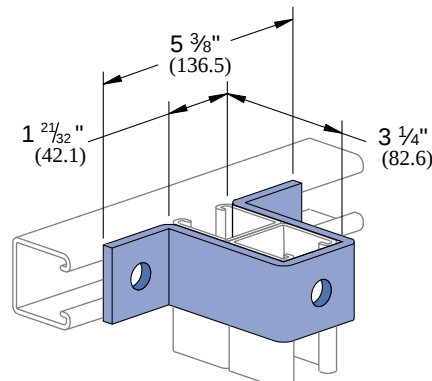
Wt/100 pcs: 105 Lbs (47.6 kg)



P1001A

P1737

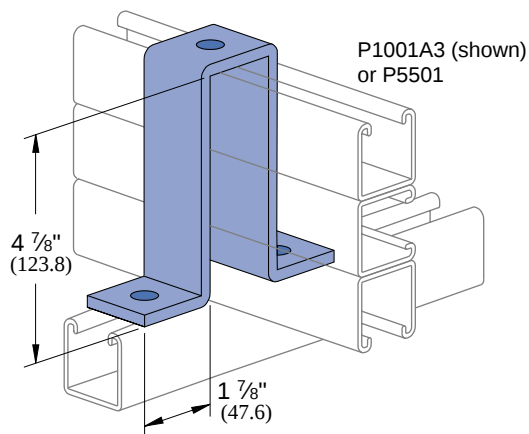
Wt/100 pcs: 128 Lbs (58.1 kg)



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

P2473

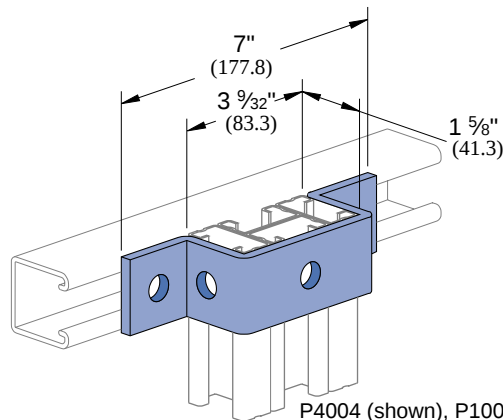
Wt/100 pcs: 197 Lbs (89.4 kg)



P1001A3 (shown)
or P5501

P4043

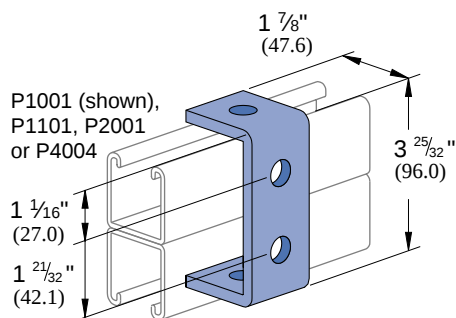
Wt/100 pcs: 106 Lbs (48.1 kg)



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

P1044

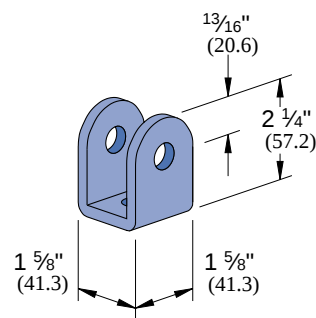
Wt/100 pcs: 70 Lbs (31.8 kg)



P1001 (shown),
P1101, P2001
or P4004

P1973

Wt/100 pcs: 53 Lbs (24.0 kg)

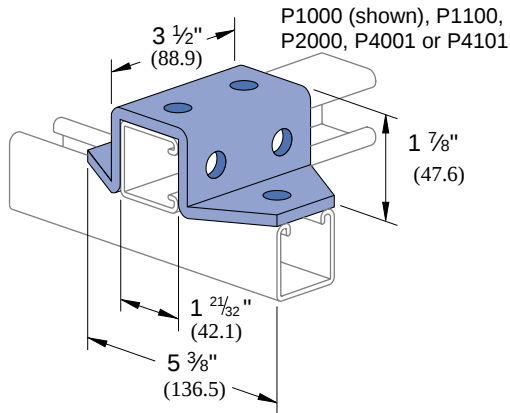


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

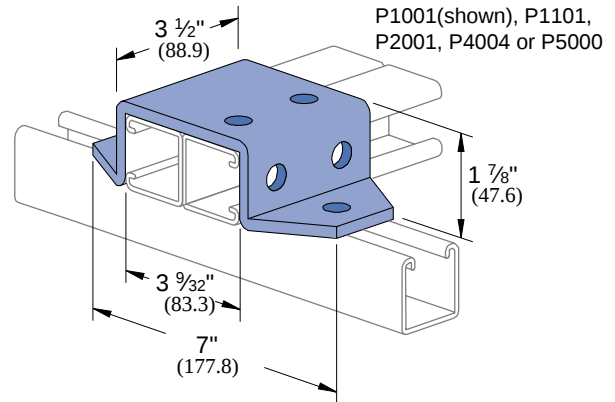
P2326

Wt/100 pcs: 171 Lbs (77.6 kg)



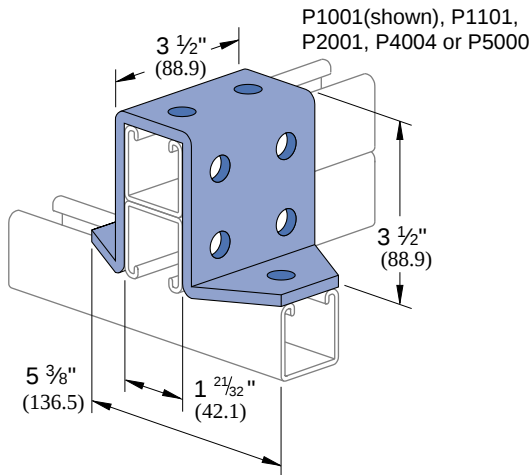
P2328

Wt/100 pcs: 209 Lbs (94.8 kg)



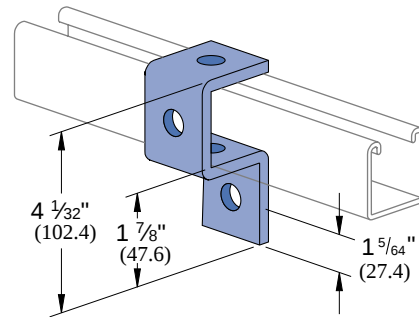
P2329

Wt/100 pcs: 257 Lbs (116.6 kg)



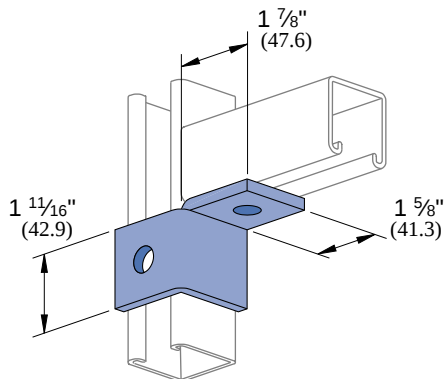
P1046A

Wt/100 pcs: 76 Lbs (34.5 kg)



P2341 R-L

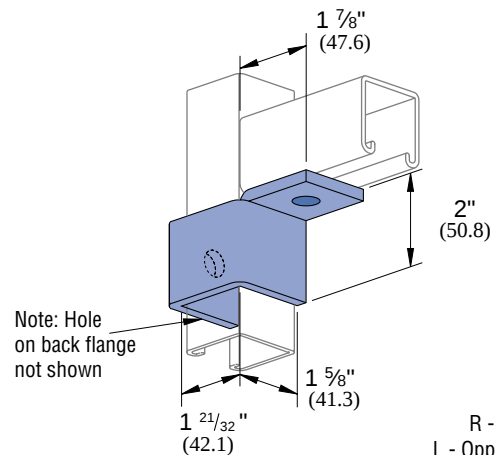
Wt/100 pcs: 60 Lbs (27.2 kg)



R - As shown
L - Opposite hand

P2472 R-L

Wt/100 pcs: 75 Lbs (34.0 kg)



R - As shown
L - Opposite hand

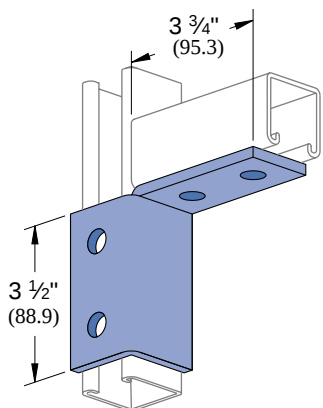
Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



P2343 R-L

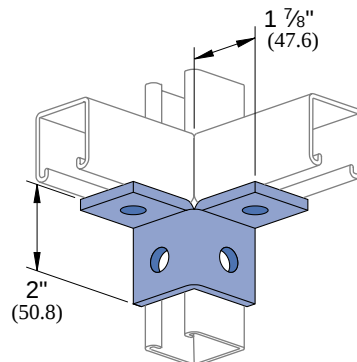
Wt/100 pcs: 119 Lbs (54.0 kg)



R - As shown
L - Opposite hand

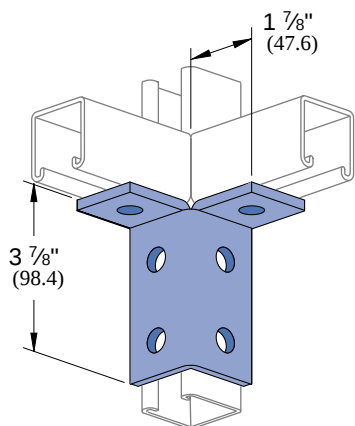
P2223

Wt/100 pcs: 76 Lbs (34.5 kg)



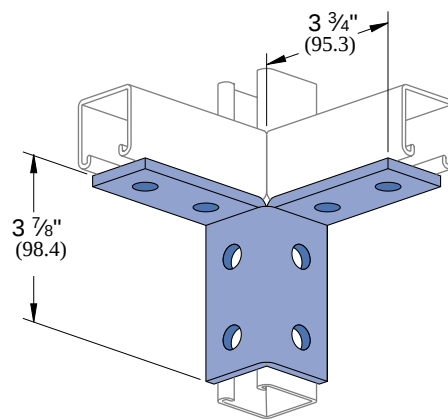
P2224

Wt/100 pcs: 115 Lbs (52.2 kg)



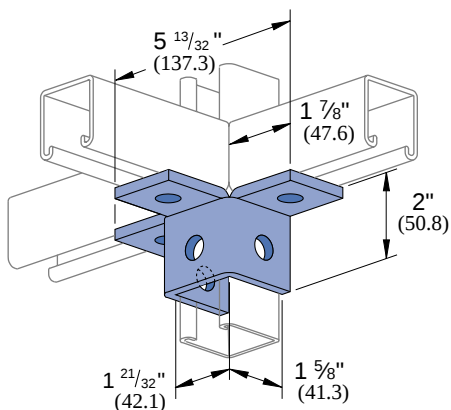
P2225

Wt/100 pcs: 155 Lbs (70.3 kg)



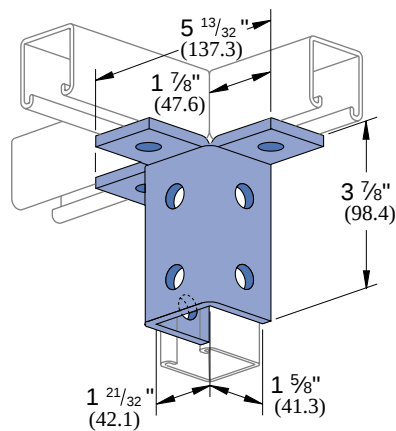
P2227

Wt/100 pcs: 113 Lbs (51.3 kg)



P2228

Wt/100 pcs: 177 Lbs (80.3 kg)

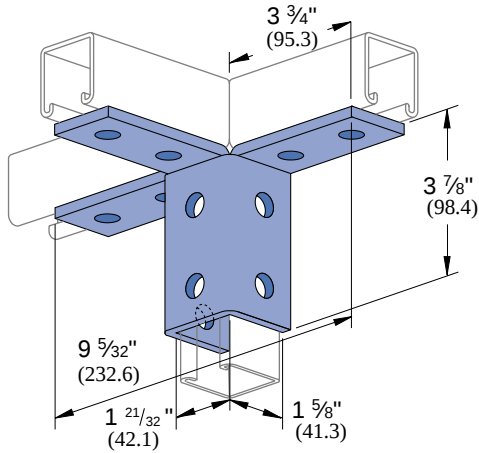


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

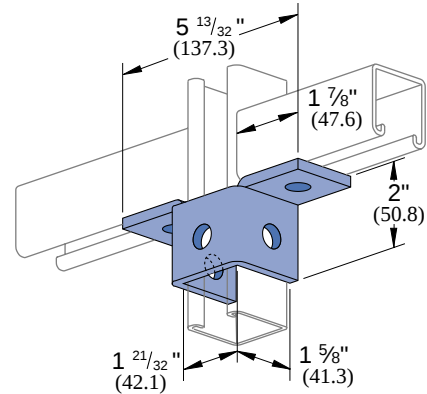
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

P2229

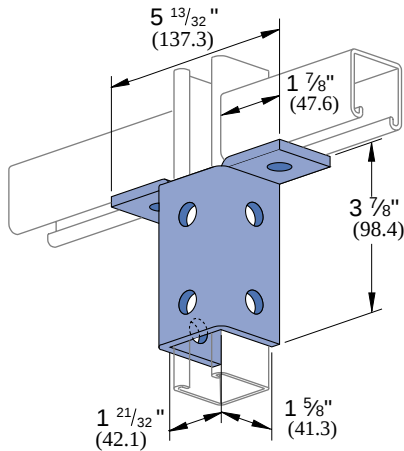
Wt/100 pcs: 230 Lbs (104.3 kg)


P2345

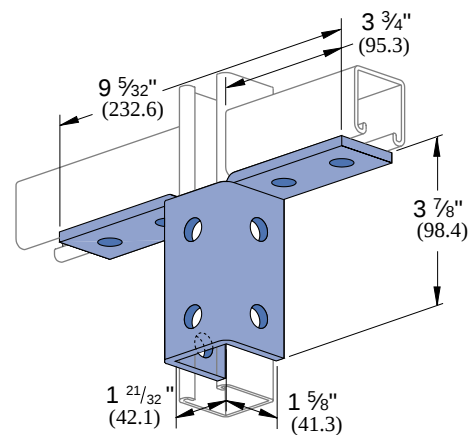
Wt/100 pcs: 93 Lbs (42.2 kg)


P2346

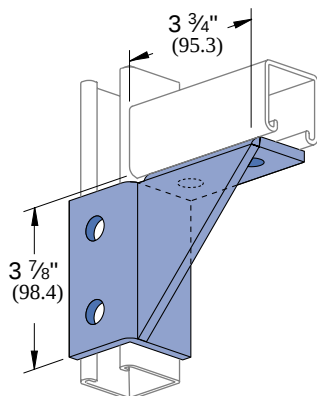
Wt/100 pcs: 150 Lbs (68.0 kg)


P2347

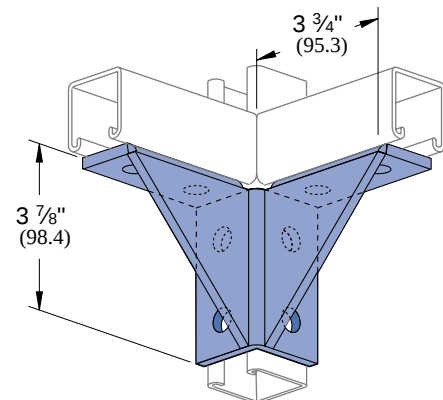
Wt/100 pcs: 193 Lbs (87.5 kg)


P2344 R-L

Wt/100 pcs: 176 Lbs (79.8 kg)


P2226

Wt/100 pcs: 217 Lbs (98.4 kg)



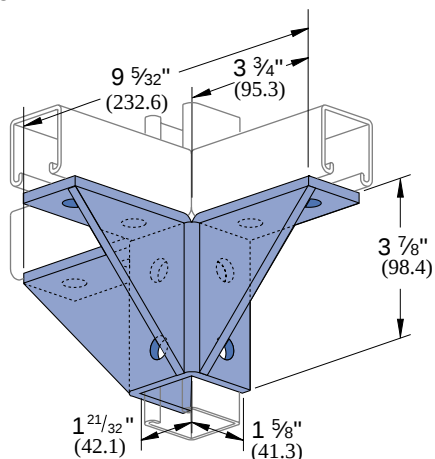
R - As shown
L - Opposite hand

Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



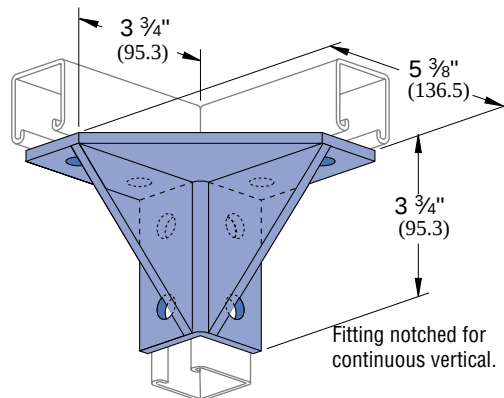
P2230

Wt/100 pcs: 310 Lbs (140.6 kg)



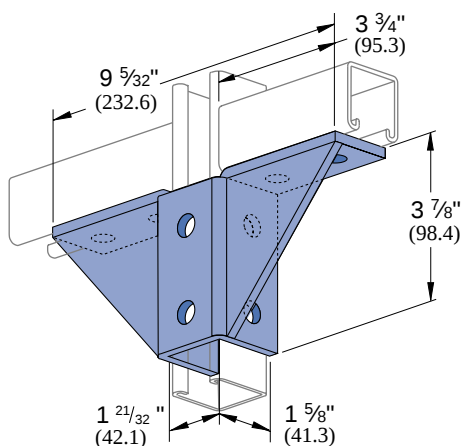
P2245

Wt/100 pcs: 315 Lbs (142.9 kg)



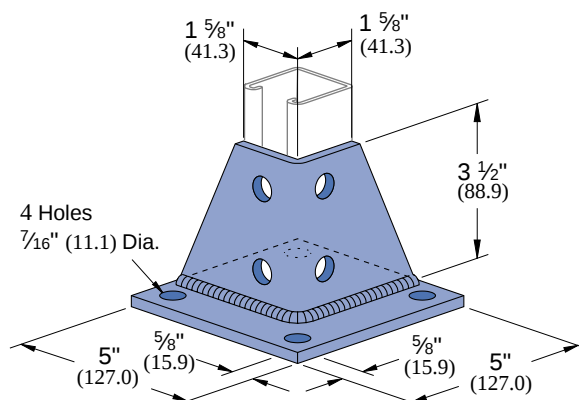
P2348

Wt/100 pcs: 274 Lbs (124.3 kg)



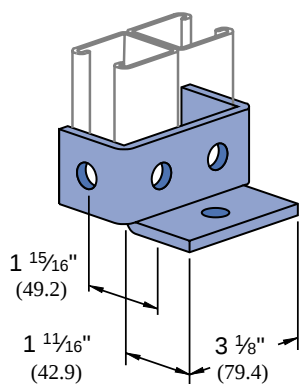
P1887

Wt/100 pcs: 297 Lbs (134.8 kg)



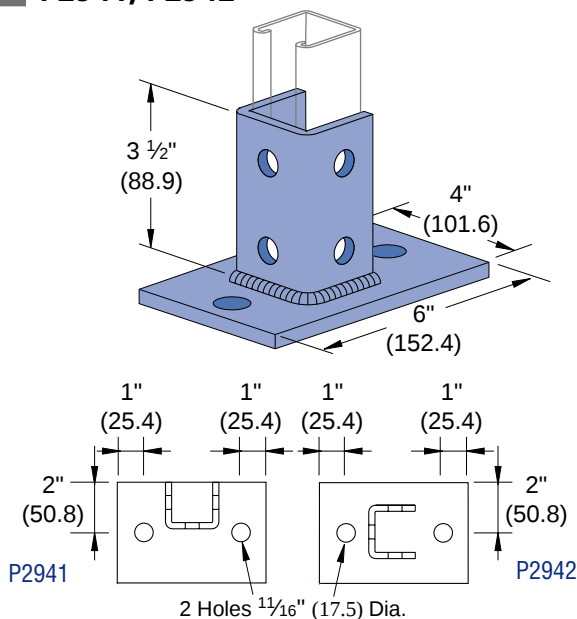
P2453

Wt/100 pcs: 116 Lbs (52.6 kg)



P2941, P2942

Wt/100 pcs: 358 Lbs (162.4 kg)

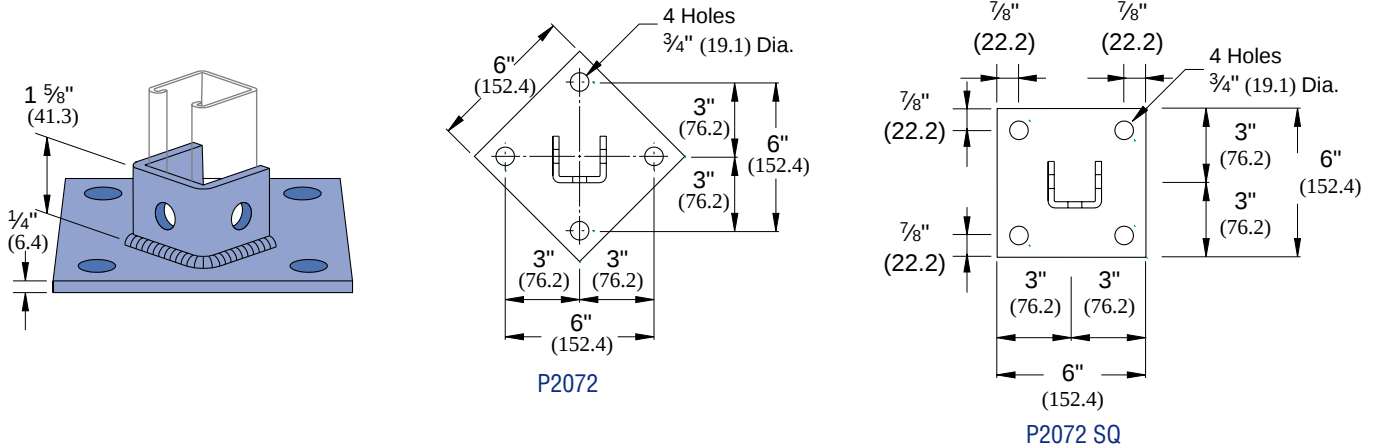


Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

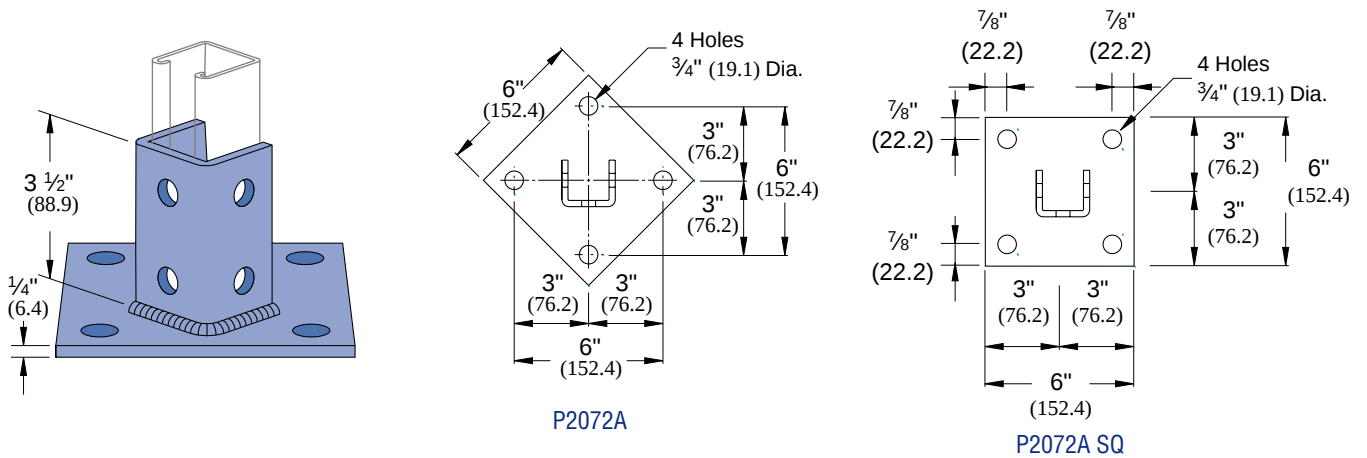
P2072, P2072 SQ

Wt/100 pcs: 307 Lbs (139.3 kg)



P2072A, P2072A SQ

Wt/100 pcs: 373 Lbs (169.2 kg)

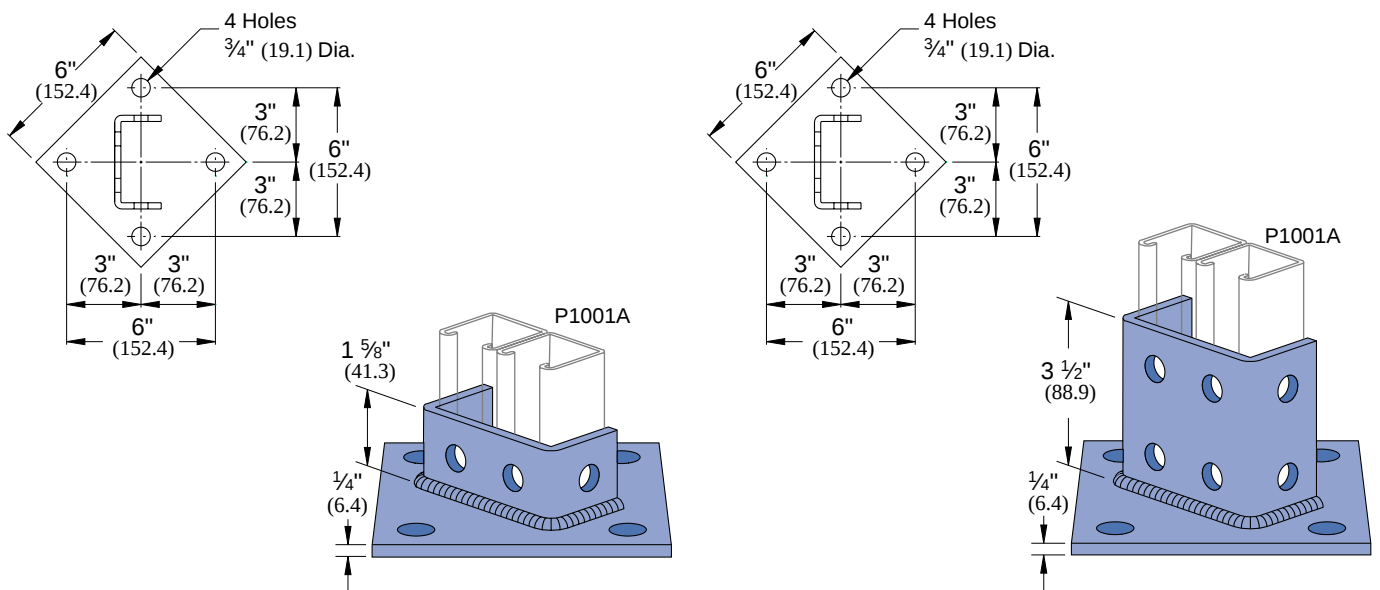


P2073

Wt/100 pcs: 325 Lbs (147.4 kg)

P2073A

Wt/100 pcs: 408 Lbs (185.1 kg)



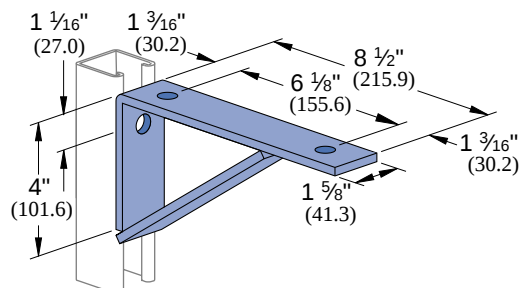
Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



P1769

Wt/100 pcs: 174 Lbs (78.9 kg)



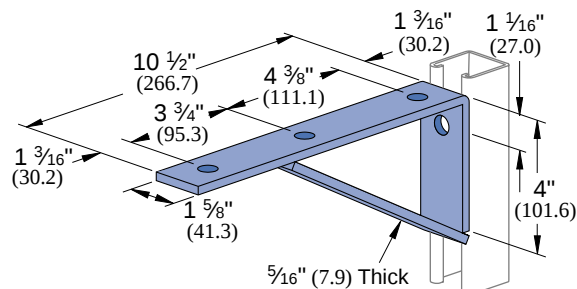
Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P1000	12	800 362.9
P1100	14	600 272.2
P2000	16	400 181.4

Safety Factor 2½

Material: ¼" (6.4) thick steel.

P1771

Wt/100 pcs: 206 Lbs (93.4 kg)



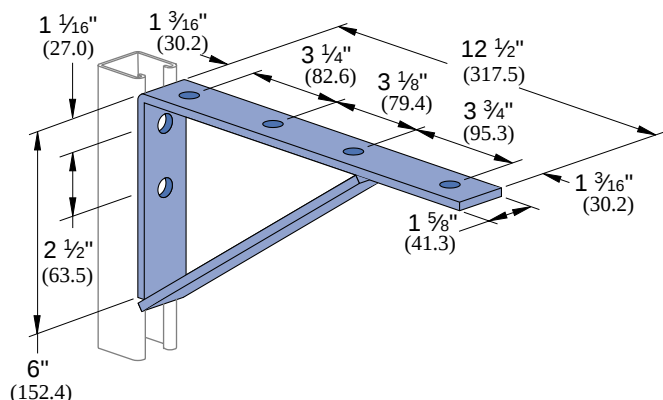
Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P1000	12	800 362.9
P1100	14	600 272.2
P2000	16	400 181.4

Safety Factor 2½

Material: ¼" (6.4) thick steel.

P1773

Wt/100 pcs: 264 Lbs (119.7 kg)



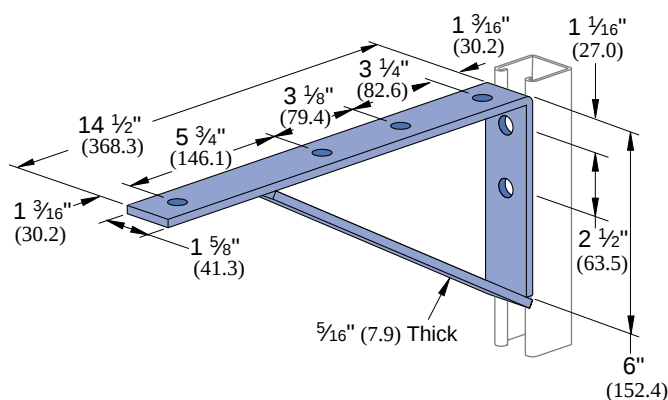
Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P1000	12	900 408.2
P1100	14	800 362.9
P2000	16	450 204.1

Safety Factor 2½

Material: ¼" (6.4) thick steel.

P1775

Wt/100 pcs: 295 Lbs (133.8 kg)



Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P1000	12	900 408.2
P1100	14	800 362.9
P2000	16	450 204.1

Safety Factor 2½

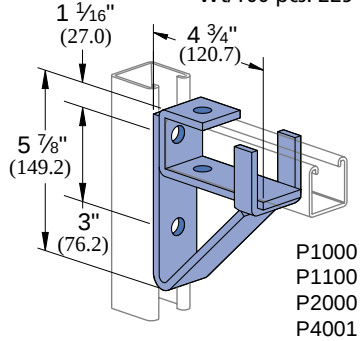
Material: ¼" (6.4) thick steel.

Standard Dimensions for 1½" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

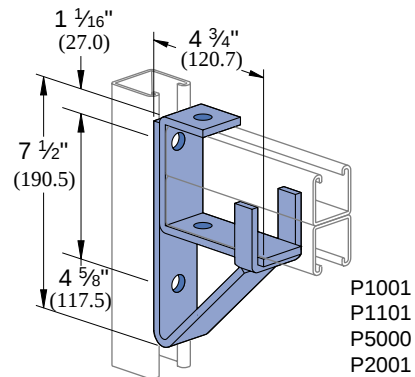
Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** ¼" (6.4mm)

P1075

Wt/100 pcs: 229 Lbs (103.9 kg)

**P1593**

Wt/100 pcs: 272 Lbs (123.4 kg)



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

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

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

Safety Factor 2½

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

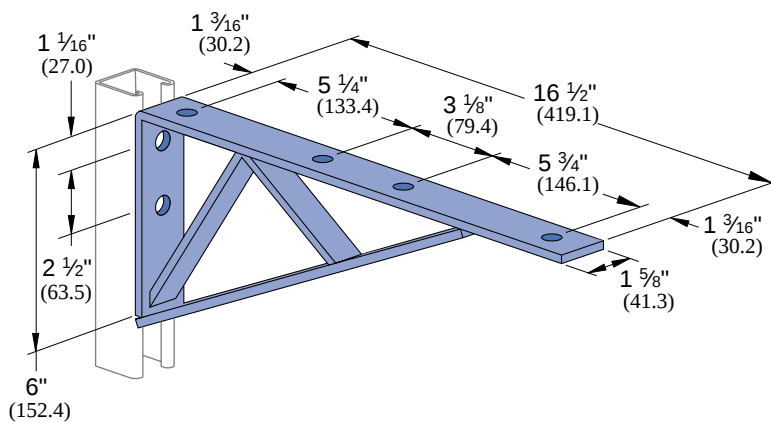
* Allowable moment for fitting only.
Channel may determine overall capacity.

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

Safety Factor 2½

P1777

Wt/100 pcs: 385 Lbs (174.6 kg)



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

Vertical Channel		Uniform Design Load
Part No.	Gauge	Lbs (kg)
P1000	12	1,200 544.3
P1100	14	900 408.2
P2000	16	600 272.2

Safety Factor 2½

Note

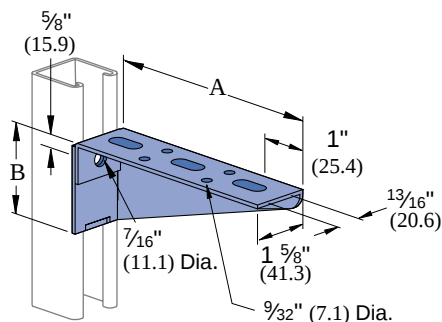
When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



P2491 R-L thru P2493 R-L

Material : 12 Gauge Steel.

R - As shown; L - Opposite hand



Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P1000	12	300 136.1
P1100	14	250 113.4
P2000	16	200 90.7

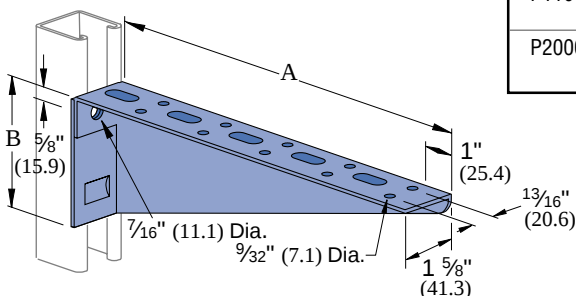
Safety Factor - 2½

Part Number	Stamped Ident. No.	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P2491 R-L	121892 R-L	6 52.4	1 15/16 49.2	67 30.4
P2492 R-L	121893 R-L	8 203.2	2 1/16 61.9	92 41.7
P2493 R-L	121894 R-L	10 254.0	2 15/16 74.6	120 54.4

P2494 R-L thru P2499 R-L

Material : 12 Gauge Steel.

R - As shown; L - Opposite hand



Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P1000	12	300 136.1
P1100	14	250 113.4
P2000	16	200 90.7

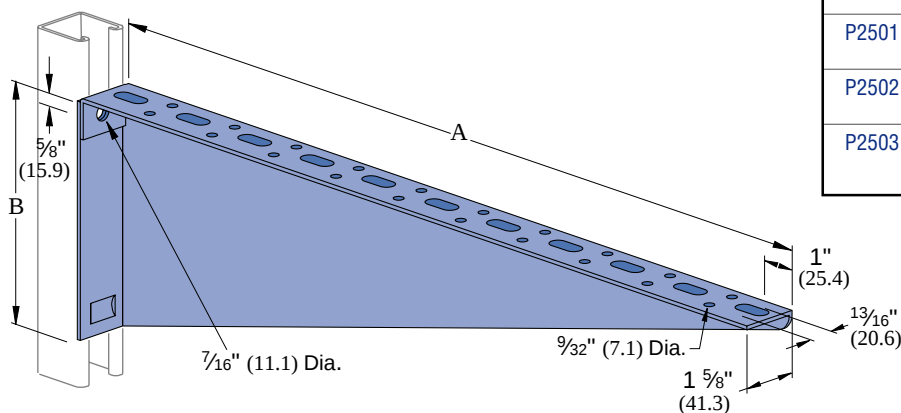
Safety Factor - 2½

Part Number	Stamped Ident. No.	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P2494 R-L	121895 R-L	12 304.8	3 1/16 87.3	152 68.9
P2495 R-L	121896 R-L	14 355.6	3 15/16 100.0	173 78.5
P2496 R-L	121897 R-L	16 406.4	4 1/16 112.7	223 101.2
P2497 R-L	121898 R-L	18 457.2	4 15/16 125.4	266 120.7
P2498 R-L	121899 R-L	20 508.0	5 1/16 138.1	308 139.7
P2499 R-L	121900 R-L	22 558.8	5 15/16 150.8	355 161.0

P2500 R-L thru P2503 R-L

Material : 12 Gauge Steel.

R - As shown; L - Opposite hand



Part Number	Stamped Ident. No.	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P2500 R-L	121901 R-L	24 609.6	6 7/16 163.5	400 181.4
P2501 R-L	121902 R-L	26 660.4	6 15/16 176.2	445 201.8
P2502 R-L	121903 R-L	28 711.2	7 1/16 188.9	493 223.6
P2503 R-L	121904 R-L	30 762.0	7 15/16 201.6	545 247.2

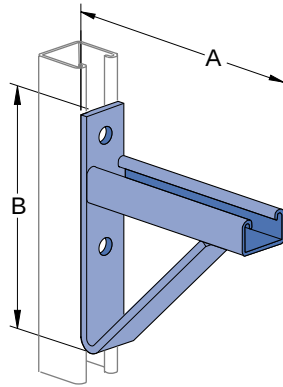
Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P1000	12	300 136.1
P1100	14	250 113.4
P2000	16	200 90.7

Safety Factor - 2½

Note

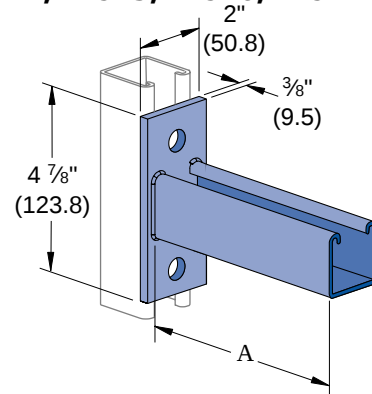
When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

P2547 thru P2551 Cable Tray Bracket



Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)	Uniform Load* Lbs (kg)
P2547	15 152.4	8 3/4 222.3	420 190.5	1,000 453.6
P2548	21 304.8	8 3/4 222.3	628 284.9	1,000 453.6
P2549	27 457.2	11 1/4 285.8	860 390.1	900 408.2
P2550	33 457.2	11 1/4 285.8	1010 458.1	900 408.2
P2551	39 609.6	16 406.4	1257 683.3	800 362.9

P2944, P2945, P2946, P2947

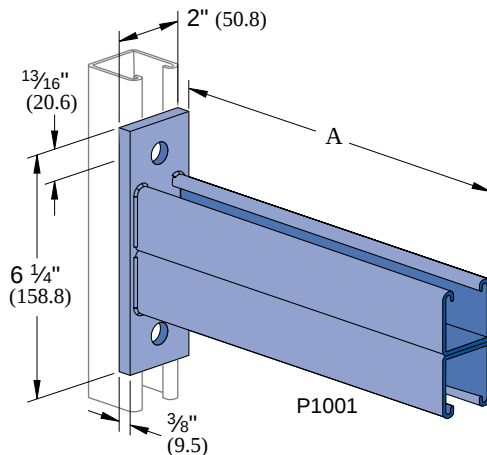


Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Uniform Load* Lbs (kg)
P2944	6 152.4	185 83.9	1200 544.3
P2945	12 304.8	293 132.9	600 272.2
P2946	18 457.2	401 181.9	400 181.4
P2947	24 609.6	509 230.9	300 136.1

Safety Factor 2 1/2

* Mounted on 12 Ga. Channel

P2542 thru P2546



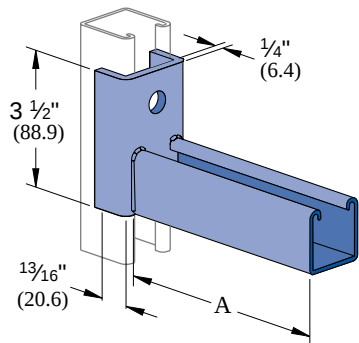
Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P2542	12 304.8	502 227.7	P1000	12	2,000 907.2
			P1100	14	1,400 635.0
			P2000	16	1,000 453.6
P2543	18 457.2	692 313.9	P1000	12	1,300 589.7
			P1100	14	900 408.2
			P2000	16	650 294.8
P2544	24 609.6	882 400.1	P1000	12	1,000 453.6
			P1100	14	700 317.5
			P2000	16	500 226.8
P2545	30 762.0	1,072 486.3	P1000	12	800 362.9
			P1100	14	560 254.0
			P2000	16	400 181.4
P2546	36 914.4	1,262 572.4	P1000	12	650 294.8
			P1100	14	450 204.1
			P2000	16	320 145.1

Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



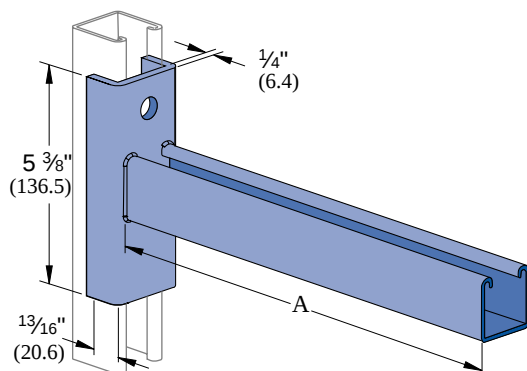
P2231, P2232



Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P2231	6 152.4	191 86.6	P1000	12	1,600 725.7
			P1100	14	1,200 544.3
			P2000	16	800 362.9
P2232	12 304.8	292 132.4	P1000	12	800 362.9
			P1100	14	600 272.2
			P2000	16	400 181.4

Safety Factor - 2½

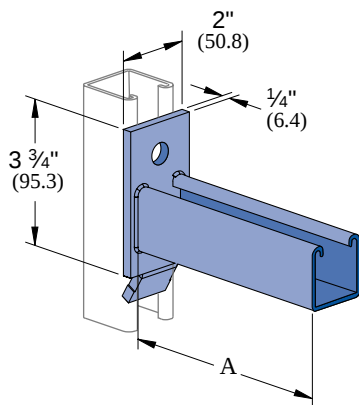
P2233, P2234



Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P2233	18 457.2	436 197.8	P1000	12	600 272.2
			P1100	14	450 204.1
			P2000	16	300 136.1
P2234	24 609.6	536 243.1	P1000	12	450 204.1
			P1100	14	330 149.7
			P2000	16	220 99.8

Safety Factor - 2½

P2513 thru P2516



Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel Part No.	Gauge	Uniform Design Load Lbs (kg)
P2513	6 152.4	161 73.0	P1000	12	1,200 544.3
			P1100	14	800 362.9
			P2000	16	600 272.2
P2514	12 304.8	261 118.4	P1000	12	600 272.2
			P1100	14	400 181.4
			P2000	16	300 136.1
P2515	18 457.2	361 163.7	P1000	12	400 181.4
			P1100	14	270 122.5
			P2000	16	200 90.7
P2516	24 609.6	461 209.1	P1000	12	300 136.1
			P1100	14	200 90.7
			P2000	16	150 68.0

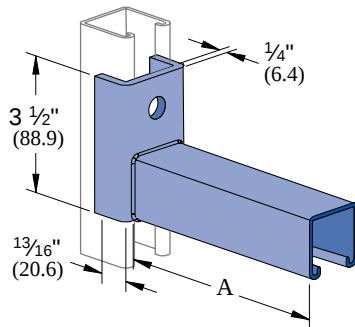
Safety Factor - 2½

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

Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

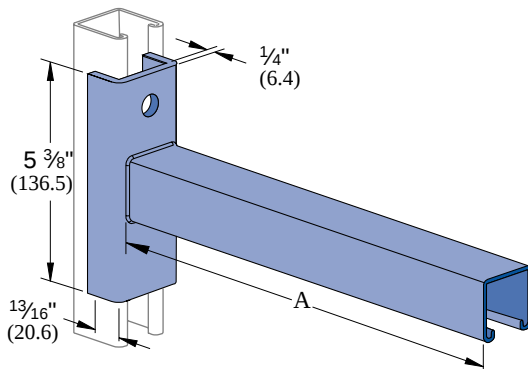
P2231A, P2232A



Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel		Uniform Design Load Lbs (kg)
			Part No.	Gauge	
P2231A	6 152.4	191 86.6	P1000	12	1,600 725.7
			P1100	14	1,200 544.3
			P2000	16	800 362.9
P2232A	12 304.8	292 132.4	P1000	12	800 362.9
			P1100	14	600 272.2
			P2000	16	400 181.4

Safety Factor - 2½

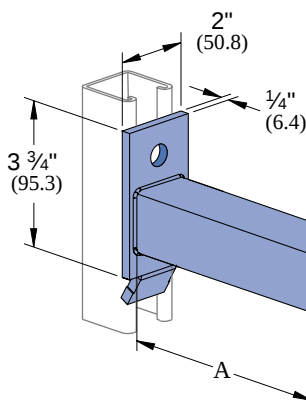
P2233A, P2234A



Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel		Uniform Design Load Lbs (kg)
			Part No.	Gauge	
P2233A	18 457.2	436 197.8	P1000	12	600 272.2
			P1100	14	450 204.1
			P2000	16	300 136.1
P2234A	24 609.6	536 243.1	P1000	12	450 204.1
			P1100	14	330 149.7
			P2000	16	220 99.8

Safety Factor 2½

P2513A thru P2516A



Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Vertical Channel		Uniform Design Load Lbs (kg)
			Part No.	Gauge	
P2513A	6 152.4	161 73.0	P1000	12	1,200 544.3
			P1100	14	800 362.9
			P2000	16	600 272.2
P2514A	12 304.8	261 118.4	P1000	12	600 272.2
			P1100	14	400 181.4
			P2000	16	300 136.1
P2515A	18 457.2	361 163.7	P1000	12	400 181.4
			P1100	14	270 122.5
			P2000	16	200 90.7
P2516A	24 609.6	461 209.1	P1000	12	300 136.1
			P1100	14	200 90.7
			P2000	16	150 68.0

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

Safety Factor 2½

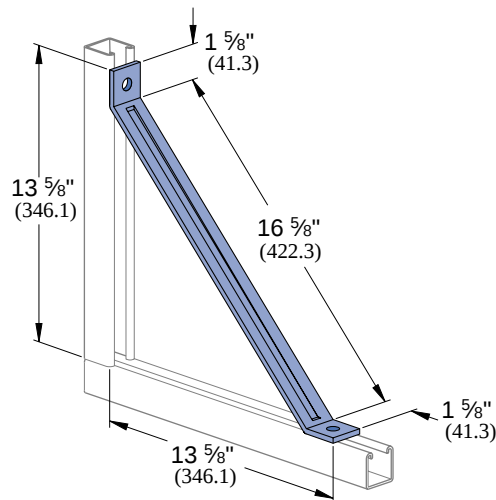
Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

P2452

Knee Brace

Wt/100 pcs: 277 Lbs (125.6 kg)

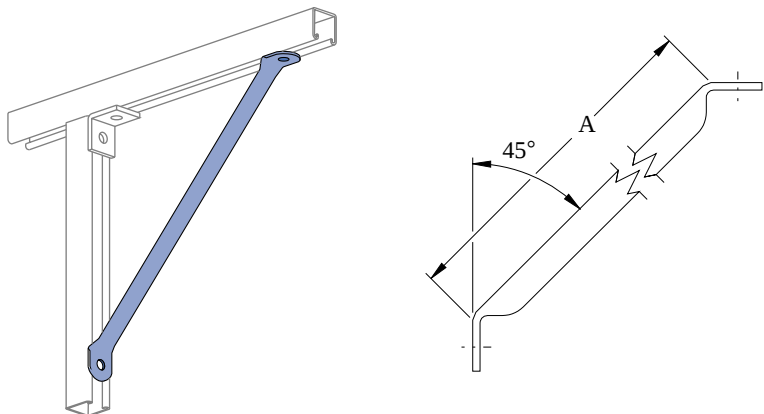


Material: 1/4" (6.4) thick steel.

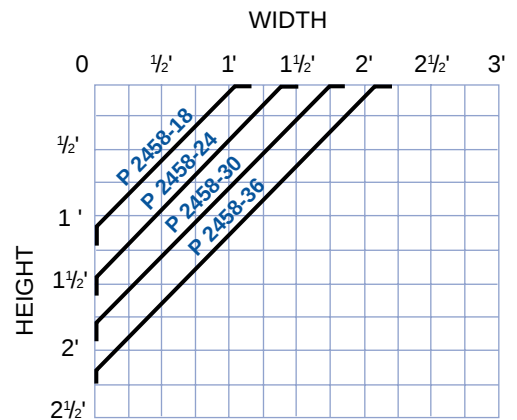
Design Axial Load
1200 Lbs (544.3 kg)

P2458-18 thru P2458-36

Tubular Knee Braces



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

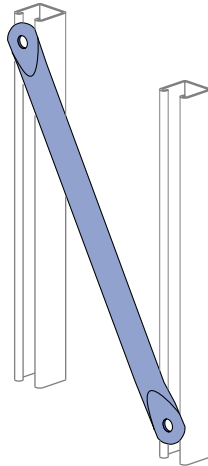


Design Loads
Compression = 1500 Lbs (680.4 kg)
Tension = 300 Lbs (136.1 kg)

Note

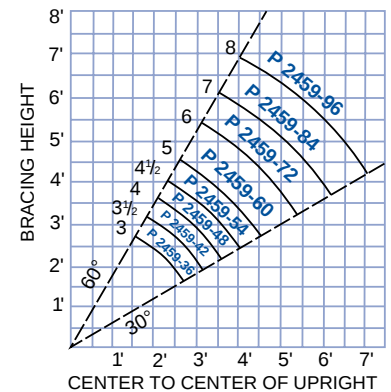
When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

P2459-36 thru P2459-96

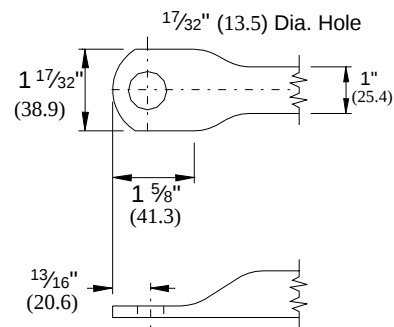
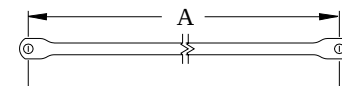


Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)
P2459-36	36 914.4	255 115.7
P2459-42	42 1,066.8	296 134.3
P2459-48	48 1,219.2	336 152.4
P2459-54	54 1,371.6	377 171.0
P2459-60	60 1,524.0	418 189.6
P2459-72	72 1,828.8	499 226.3
P2459-84	84 2,133.6	580 263.1
P2459-96	96 2,438.4	661 299.8

Tubular Back Braces



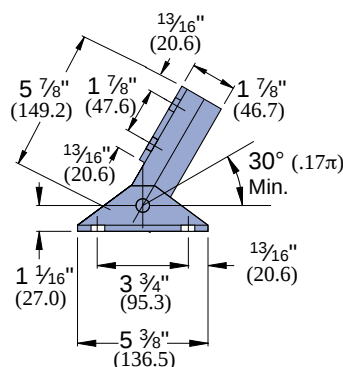
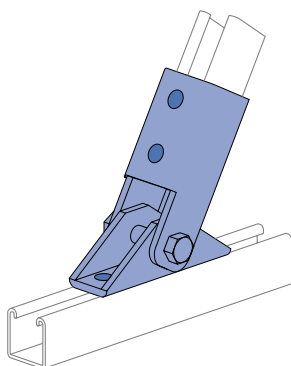
1. The vertical lines of the graph correspond to the center to center line dimension of the uprights.
2. Along this vertical line locate the (maximum usable) horizontal bracing height line.
3. The arc line that intersects the point formed by the intersection of the two lines, indicates the brace required.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



P2815

Adjustable Brace Fitting

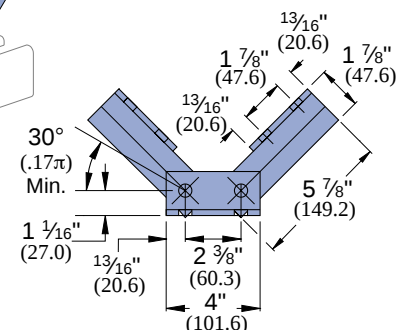
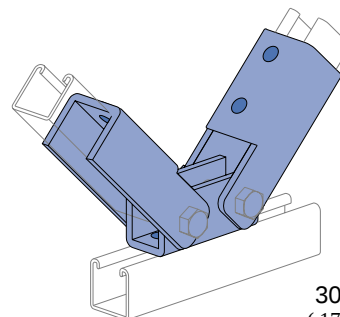
Wt/100 pcs: 307 Lbs (139.3 kg)



P2815D

Adjustable Brace Fitting

Wt/100 pcs: 497 Lbs (225.4 kg)



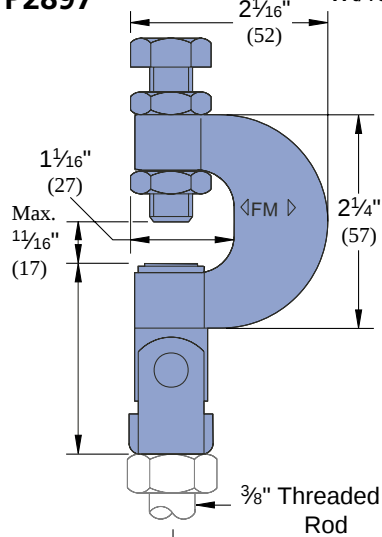
Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



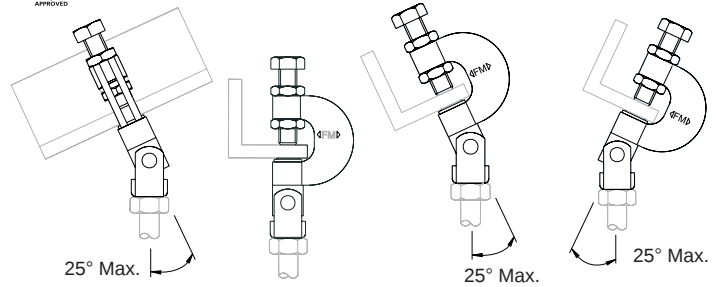
P2897

Wt/100 pcs: 33 Lbs (15.0 kg)

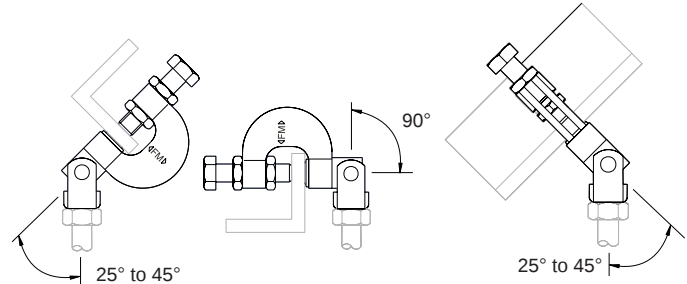


Design Load (Safety Factor of 4)
(angles ≤ 25°) - 550 Lbs (250Kg)
(angles > 25°) - 330 Lbs (150Kg)

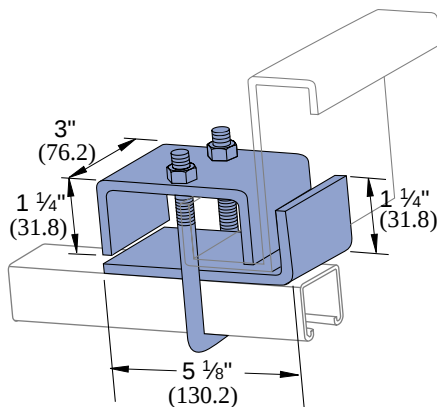
FM Approved Applications



Other (Non - FM Approved) Applications



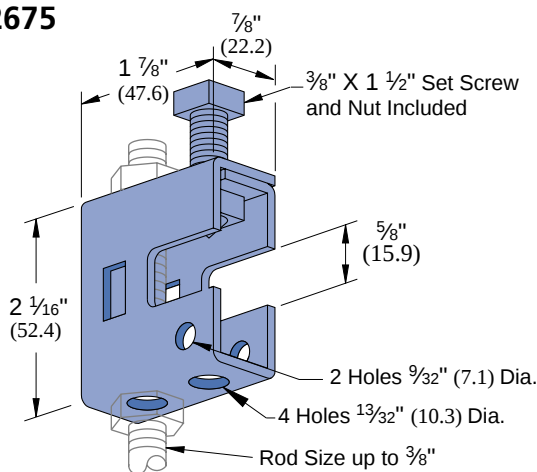
P2784



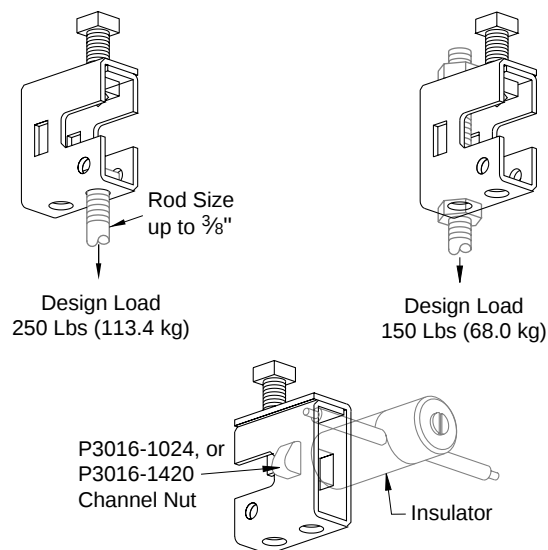
Part Number	For Use With	Load Lbs (kg)	Wt/100 pcs Lbs (kg)
P2784-1	P1000, P1100, P2000	1,200 544	175 79.3
P2784-2	P1001, P1101, P2001	1,200 544	179 81.1
P2784-3	P5001, P5501	1,200 544	180 81.5

P2675

Wt/100 pcs: 33 Lbs (15.0 kg)



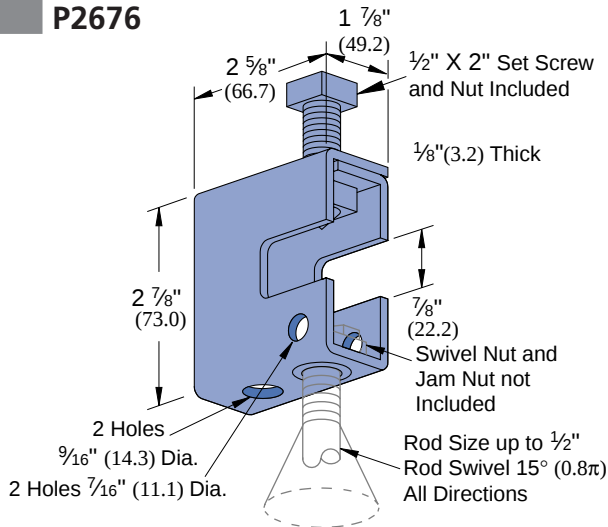
Clamp Materials: .105" (2.7) thick steel.
Clamp P2675 is designed for light duty rod suspension.
It also may be used with P3016-1024 or P3016-1420 nut as illustrated above for mounting insulators, etc.



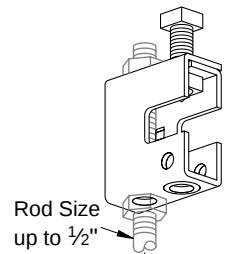
Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

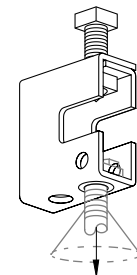
P2676



Wt/100 pcs: 72 Lbs (32.7 kg)



Design Load
300 Lbs (136.1 kg)

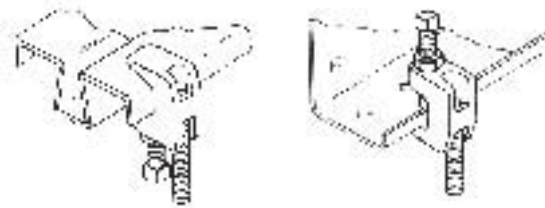
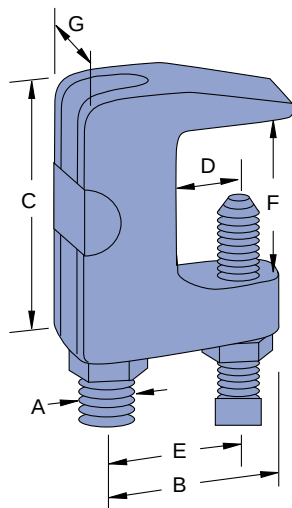


Clamp P2676 provides a means of rod suspension where a free swing of up to 15° (0.8π) is required. Clamp will accommodate 1/4" (6.4), 3/8" (9.5), or 1/2" (12.7) rods. Order swivel nuts P2679-4, -6, or -8 as required. Clamp may also be used with P2677 as illustrated in application drawings on page 113.

Clamp Materials: 1/8" (3.2) thick steel.

P2898

Universal Beam Clamp

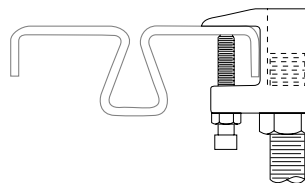
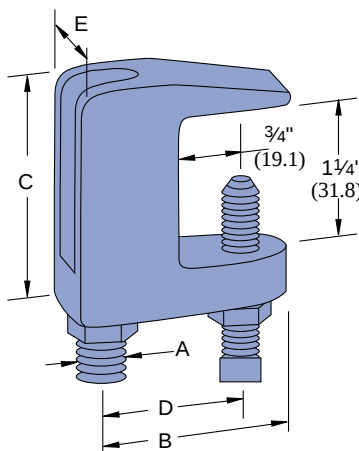


- Maximum temperature of 450° F
- At least one full thread must be exposed

	A in	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)	G in (mm)	Max Load Lbs (kg)	Wt/100 pcs Lbs (kg)
P2898-37	3/8	1 25.4	1 1/2 38.1	1/2 12.7	1 25.4	3/4 19.1	7/8 22.2	400 181.8	33 15.0
P2898-50	1/2	1 25.4	1 1/2 38.1	1/2 12.7	1 25.4	3/4 19.1	7/8 22.2	500 227.3	33 15.0
P2898-62	5/8	1 1/2 38.1	1 1/2 38.1	1/2 12.7	1 25.4	3/4 19.1	1 25.4	600 272.7	22 10.0
P2898-75	3/4	1 7/8 47.6	1 3/4 44.5	5/8 15.9	1 3/8 34.9	1 25.4	1 1/4 31.8	800 363.6	88 40.0
P2898-87	7/8	2 50.8	1 3/4 44.5	5/8 15.9	1 1/2 38.1	1 25.4	1 1/4 31.8	1,200 545.5	79 35.9

P2899

WIDE THROAT TOP BEAM CLAMP



- Maximum temperature of 450° F

	Rod Size					Max. Load	Wt/100 pcs
	A in	B in (mm)	C in (mm)	D in (mm)	E in (mm)	Lbs (kg)	Lbs (kg)
P2899-37	3/8	1 5/8 41.3	2 50.8	1 25.4	7/8 22.2	500 227.3	28 12.7
P2899-50	1/2	1 5/8 41.3	2 50.8	1 25.4	7/8 22.2	500 227.3	28 12.7
P2899-62	5/8	1 3/4 44.5	2 1/4 57.2	1 1/4 31.8	1 25.4	600 272.7	66 30.0
P2899-75	3/4	1 7/8 47.6	2 3/8 60.3	1 3/8 34.9	1 1/4 31.8	800 363.6	83 37.7

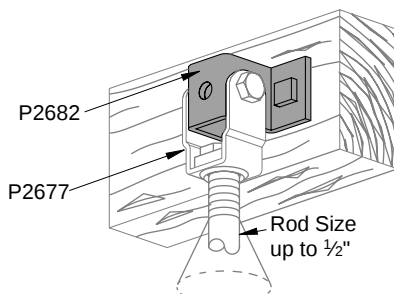
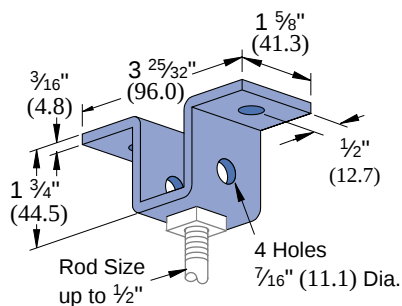
Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



P2682

Wt/100 pcs: 55 Lbs (24.9 kg)

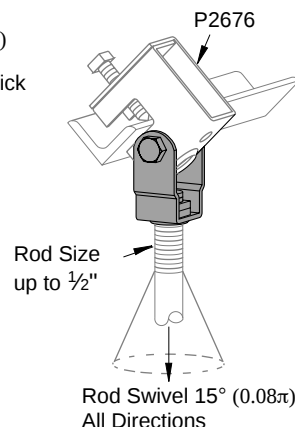
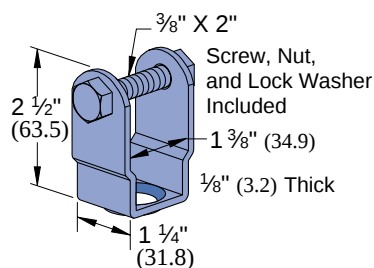


Hanger clevis for up to 1/2" (12.7) rod suspension from wood ceilings. May also be used with P2677 as illustrated in application drawings.

Rod Swivel 15° (0.08π) All Directions

P2677

Wt/100 pcs: 30 Lbs (13.6 kg)

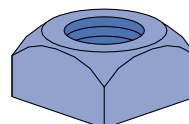
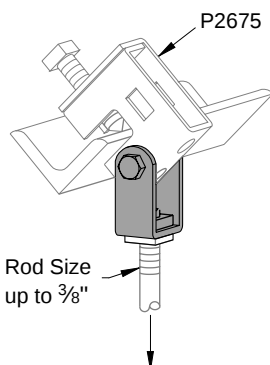
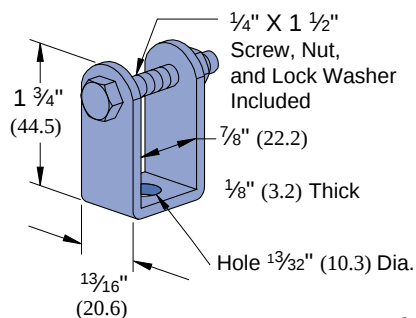


Clevis hanger to be used with P2676 or P2682 to provide angle adjustment and 15° (0.08 π) free swing for up to 1/2" (12.7) rod suspension. Order swivel nuts P2679-4, -6, or -8 as required.

Design Load
500 Lbs (226.8 kg)

P2674

Wt/100 pcs: 17 Lbs (7.7 kg)



P2679-4, -6 & -8

SWIVEL NUT

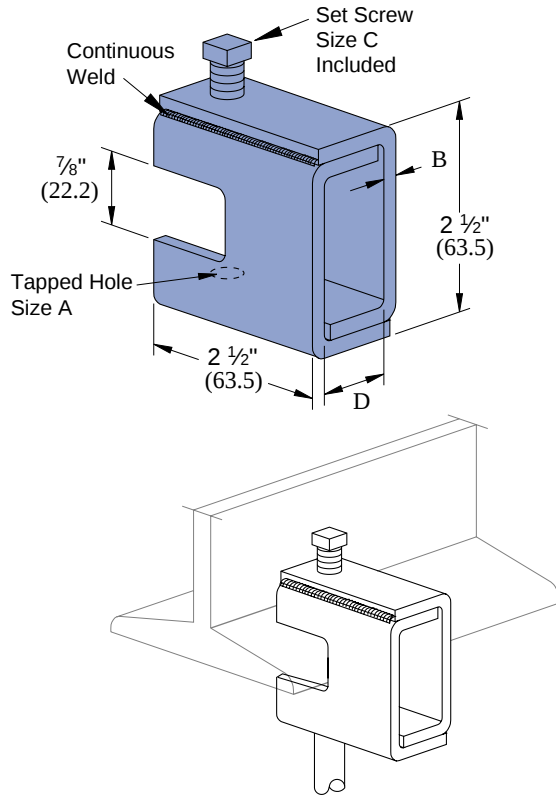
Clevis hanger to be used with P2675 to provide angle adjustment for up to 3/8" rod suspension as illustrated.

Design Load
250 Lbs (113.4 kg)

- Use with P2676 and P2677.
- Order size as required.

Part Number	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

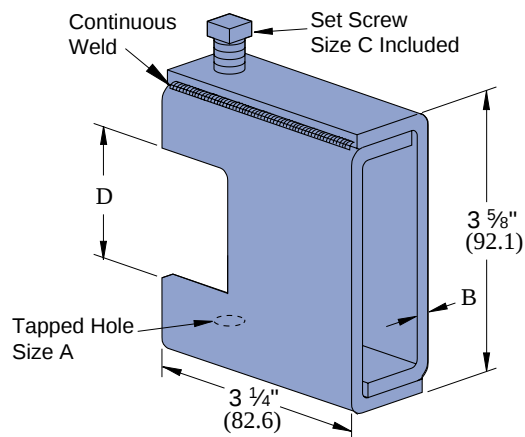
P1648S thru P1653S



Part Number	"A" In	"B" In (mm)	"C" In	"D" In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P1648S	1/4 -20	1/8 3.2	3/8 x 1 1/2	7/8 22.2	67 30.4	650 294.8
P1649S	5/16 -18	1/8 3.2	3/8 x 1 1/2	7/8 22.2	67 30.4	650 294.8
P1649AS	3/8 -16	1/8 3.2	3/8 x 1 1/2	7/8 22.2	67 30.4	650 294.8
P1650S	3/8 -16	3/16 4.8	1/2 x 1 1/2	15/16 23.8	100 45.4	1,100 499.0
P1650AS	1/2 -13	3/16 4.8	1/2 x 1 1/2	15/16 23.8	100 45.4	1,100 499.0
P1651S	1/2 -13	1/4 6.4	1/2 x 1 1/2	15/16 23.8	130 59.0	1,600 725.7
P1651AS	5/8 -11	1/4 6.4	1/2 x 1 1/2	15/16 23.8	130 59.0	1,600 725.7
P1652S	5/8 -11	5/16 7.9	5/8 x 1 1/2	15/16 33.3	160 72.6	2,400 1,088.6
P1653S	3/4 -10	5/16 7.9	5/8 x 1 1/2	15/16 33.3	160 72.6	2,400 1,088.6

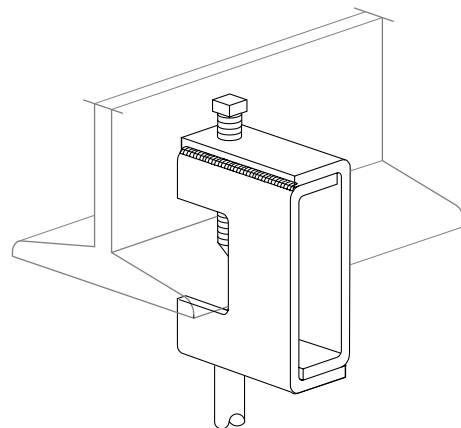
For beams under 7/8" (22.2) thick flange.

P2398S, P2401S, P2403S



Part Number	"A" In	"B" In (mm)	"C" In	"D" In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P2398S	1/4 -20	1/8 3.2	3/8 x 2	1 21/32 42.1	109 49.4	800 362.9
P2401S	3/8 -16	3/16 4.8	1/2 x 2	1 11/16 42.9	156 70.8	1,300 589.7
P2403S	1/2 -13	1/4 6.4	1/2 x 2	1 11/16 42.9	201 91.2	1,900 861.8

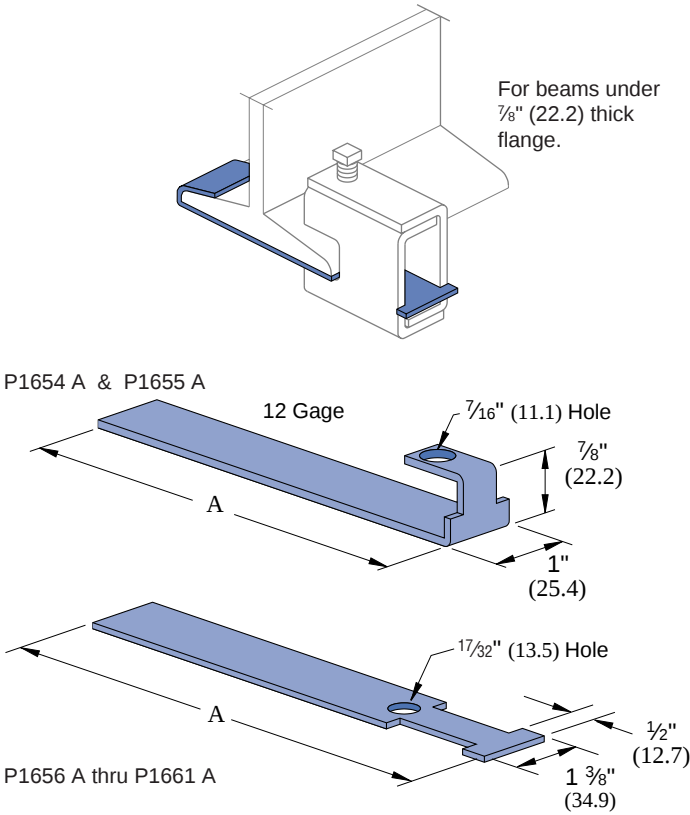
For beams between 3/4" (19.1) to 1 1/8" (41.3) thick flanges.



P1654A thru P1661A

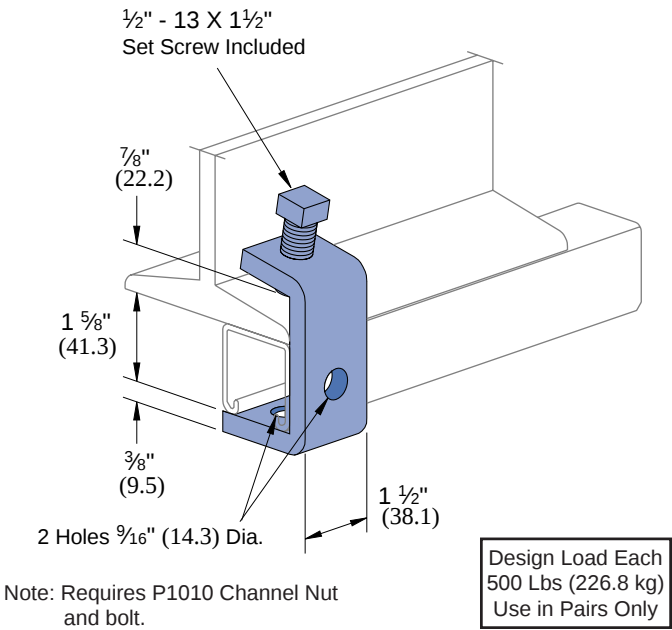
Retainer Strap

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
P1657 A	9 228.6	12 304.8	47 21.3	P1651 AS, and
P1658 A	12 304.8	15 381.0	59 26.8	P2398 S Series
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



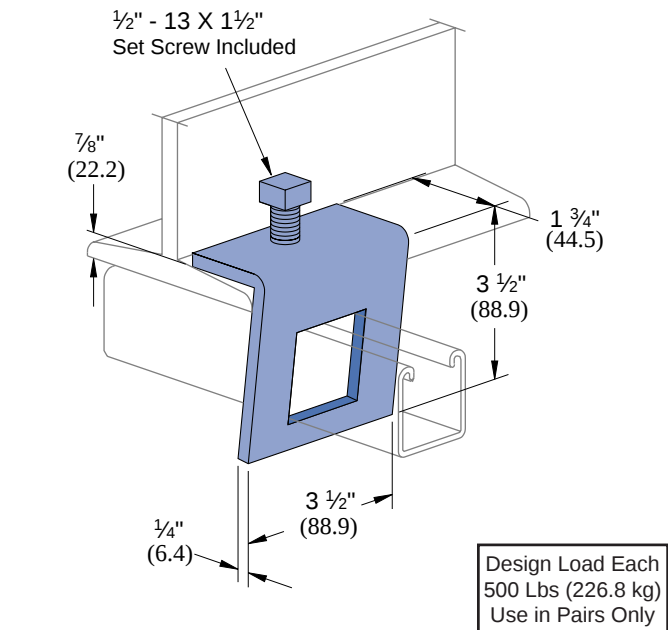
P1271S

Wt/100 pcs: 95 Lbs (43.1 kg)



P1796S

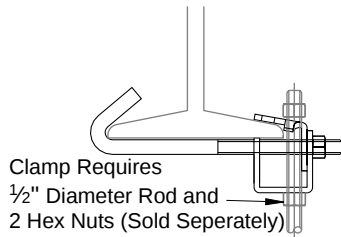
Wt/100 pcs: 91 Lbs (41.3 kg)



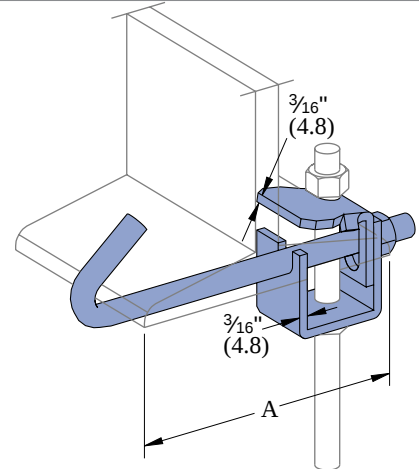
Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

P2824-6,-9,-12

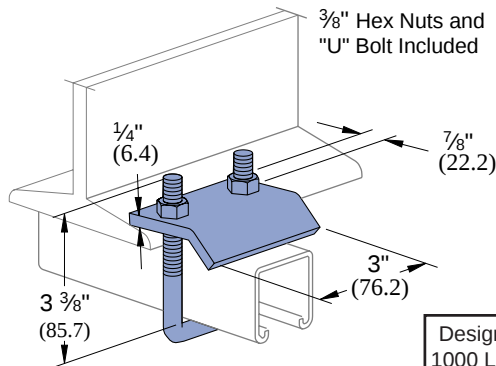


Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P2824-6	2 1/2 - 6 63.5 - 152.4	125 56.7	500 226.8
P2824-9	5 1/2 - 9 139.7 - 228.6	140 63.5	500 226.8
P2824-12	8 1/2 - 12 215.9 - 304.8	171 77.6	500 226.8



P2785

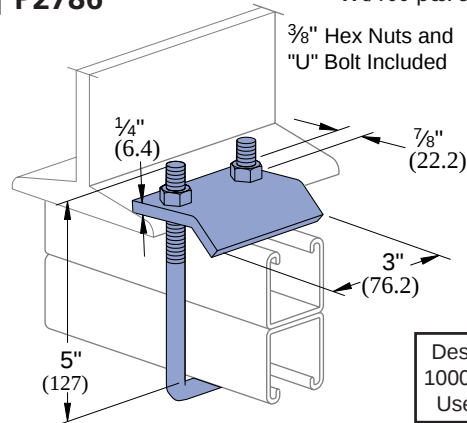
Wt/100 pcs: 83 Lbs (37.6 kg)



Design Load Each
1000 Lbs (453.6 kg)
Use in Pairs Only

P2786

Wt/100 pcs: 92 Lbs (41.7 kg)



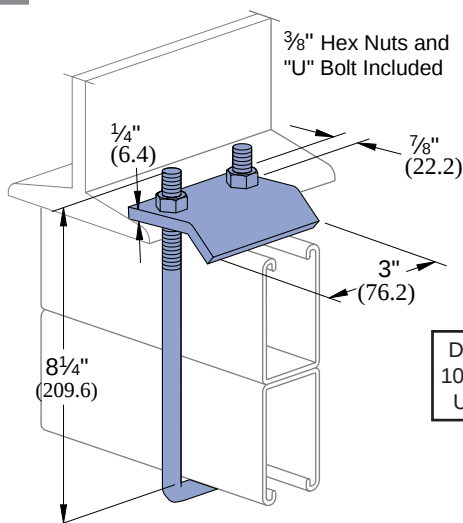
Design Load Each
1000 Lbs (453.6 kg)
Use in Pairs Only

- 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.

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

P2787

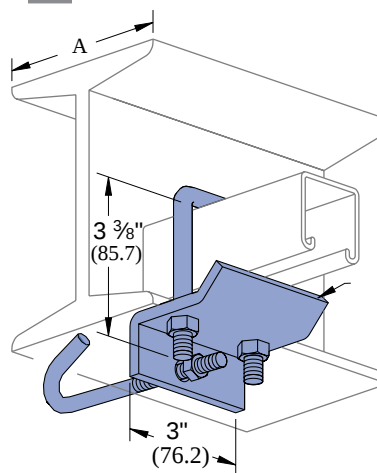
Wt/100 pcs: 112 Lbs (50.8 kg)



Design Load Each
1000 Lbs (453.6 kg)
Use in Pairs Only

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

P2867



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

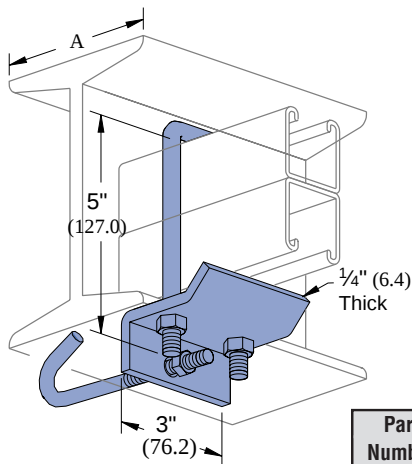
- Includes: "J" Bolt, "U" Bolt and Hex Nuts.
- For use with Channels P1000, P1100, P2000, P3000, P3300, P3301, P4000, P4001, P4100, and P4101.

Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



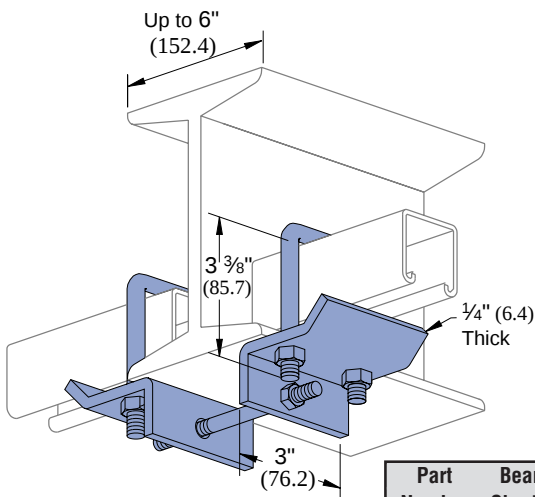
P2867A



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

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

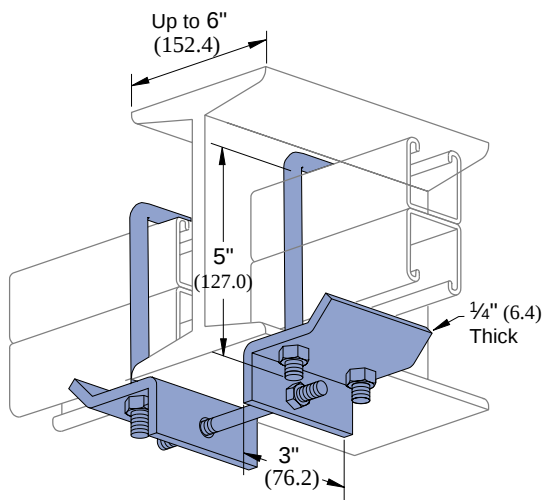
P2868



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

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

P2868A

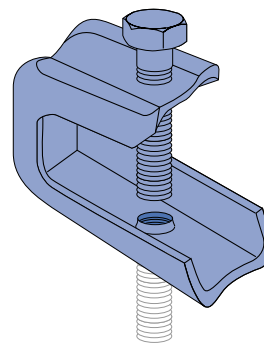


- Includes: Center Rod, "U" Bolts and Hex Nuts.
- For use with Channels P1001, P1101, P2001, P3001, P5000, and P5500.

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

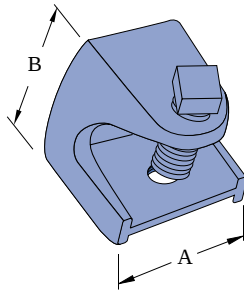
P2893

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



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

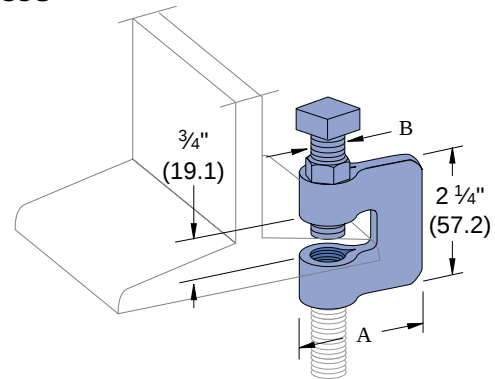
P2894



Part Number	Rod Size In	"A" In (mm)	"B" In (mm)	Load Ratings Lbs (kg)	Wt/100 pcs Lbs (kg)
P2894-25	1/4	1 1/8 28.6	1 1/4 31.8	150 68.0	23 10.4
P2894-37	3/8	2 50.8	2 50.8	350 158.8	95 43.1
P2894-50	1/2	2 5/8 66.7	2 1/2 63.5	400 181.4	195 88.5

Material: Malleable Iron
7/8" Maximum Flange Thickness

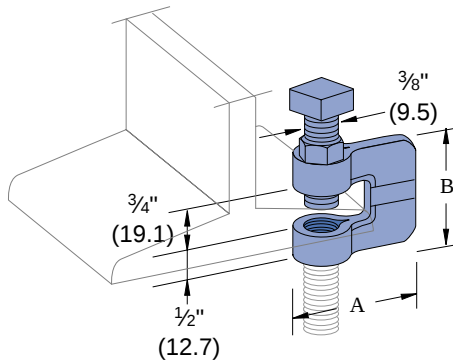
P2895



Part Number	Rod Size In	"A" In (mm)	"B" In (mm)	Load Ratings Lbs (kg)	Wt/100 pcs Lbs (kg)
P2895-37	3/8	2 5/16 58.7	3/8 9.5	330 149.7	35 15.9
P2895-50	1/2	2 1/4 57.2	1/2 12.7	380 172.4	41 18.6
P2895-62	5/8	2 3/8 60.3	5/8 15.9	450 204.1	67 30.4
P2895-75	3/4	2 1/4 57.2	1/2 12.7	500 226.8	72 32.7

Material: Steel
NOTE: UL Listed for 3/8" rod.

P2896

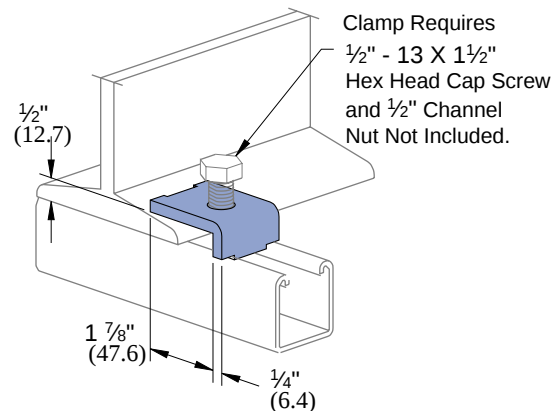


Part Number	Rod Size In	"A" In (mm)	"B" In (mm)	Load Ratings Lbs (kg)	Wt/100 pcs Lbs (kg)
P2896-37	3/8	1 11/16 42.9	1 3/4 44.5	400 181.4	38 17.2
P2896-50	1/2	1 23/32 43.7	1 3/4 44.5	400 181.4	52 23.6
P2896-62	5/8	1 5/16 49.2	2 50.8	450 204.1	68 30.8
P2896-75	3/4	2 1/32 51.6	2 50.8	600 272.2	128 58.1

Material: Malleable Iron, Steel Set Screw
NOTE: UL Listed for 3/8" rod.

P1386

Wt/100 pcs: 27 Lbs (12.2 kg)



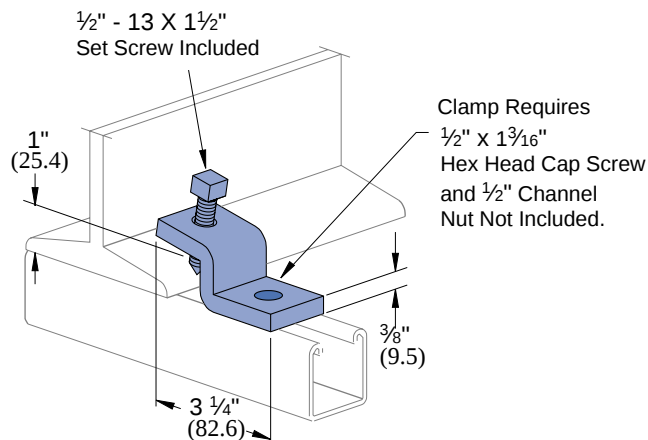
Clamp Requires
1/2" - 13 X 1 1/2"
Hex Head Cap Screw
and 1/2" Channel
Nut Not Included.

Channel Style	Design Load Each (Use in Pairs Only) Lbs (kg)
P1000	600 272.2
P1100	500 226.8
P2000	450 204.1



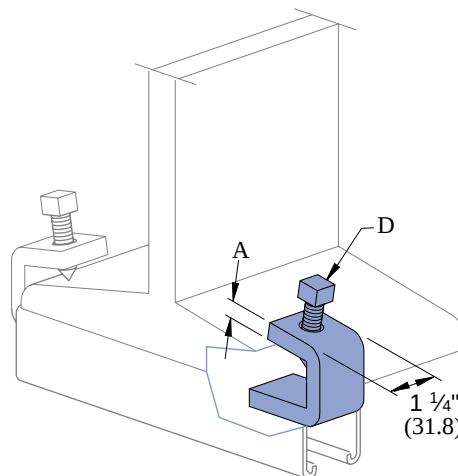
P1379S

Wt/100 pcs: 75 Lbs (34.0kg)



Channel Style	Design Load Each (Use in Pairs Only) Lbs (kg)
P1000	600 272.2
P1100	500 226.8
P2000	450

P1272S, P1985S, P1986S

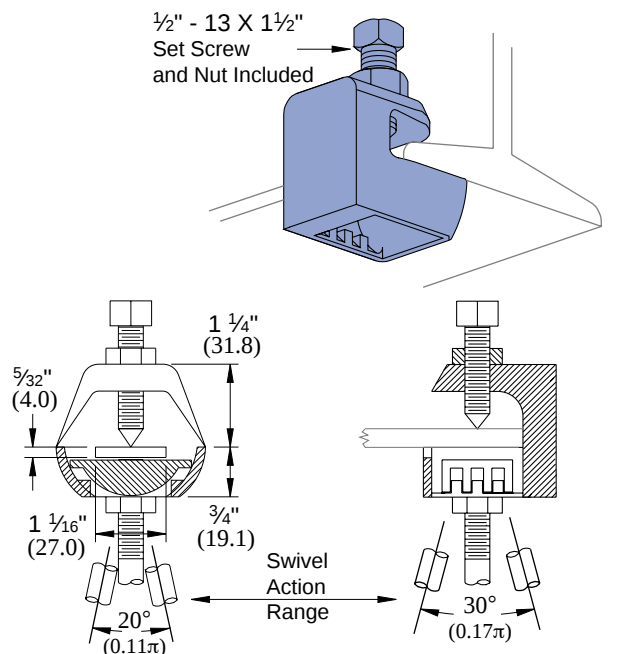


Part Number	"A" In (mm)	Flange Thickness In (mm)	"D" Set Screw Included	Wt/100 pcs Lbs (kg)	Design Load Per Pair (Use in Pairs Only) Lbs (kg)
P1272S	1/4 6.4	Up to 3/4 Up to 19.1	3/8-16 x 1 1/2	39 17.7	450 204.1
P1985S	3/8 9.5	Up to 3/4 Up to 19.1	1/2-13 x 1 1/2	62 28.1	1,000 453.6
P1986S	3/8 9.5	7/8 to 2 22.2 - 50.8	1/2-13 x 1 1/2	74 33.6	900 408.2

M29

Swivel Beam Clamp

Wt/100 pcs: 83 Lbs (37.6 kg)



- For use with M2708 series swivel nut.
- It fits flanges up to 0.8" (20.3) thickness.
- For 3/4" (19.1) to 8" (203.2) pipe sizes.
- Supports 3/8", 1/2", 5/8", 3/4", 7/8" hanger rods.
- Material: Malleable Iron.

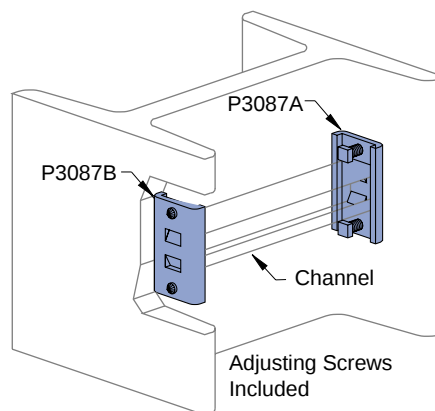
Patent No. 2953874.

Design Load
750 Lbs (340.2 kg)

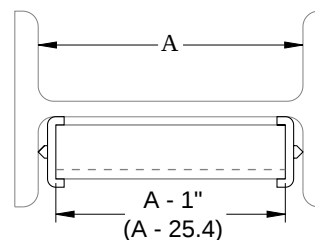
P3087

Column Insert

Wt/100 pcs: 136 Lbs (61.7 kg)



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

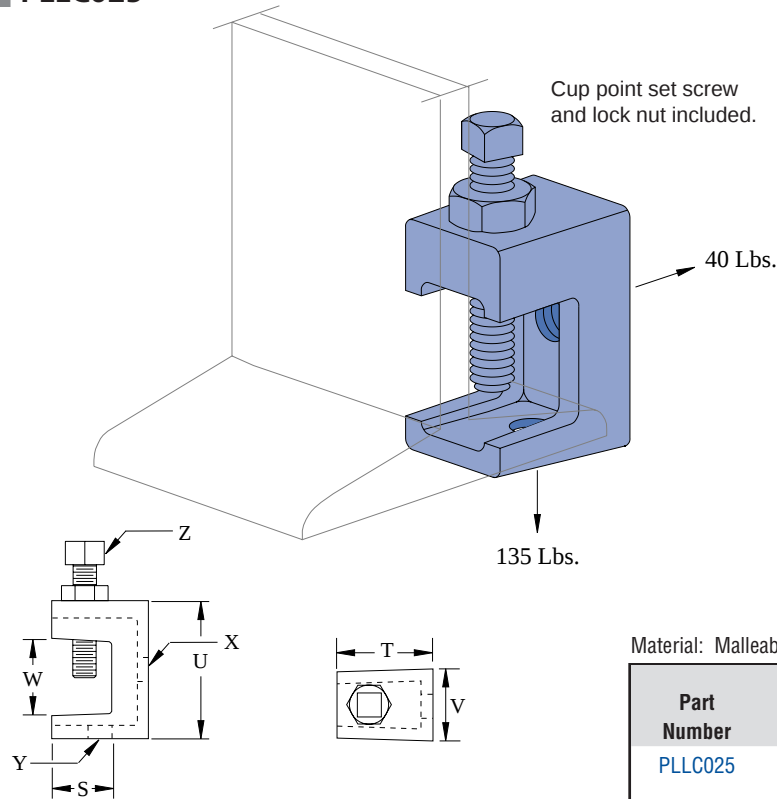


Channel Part Number	Design Pull Out Load Lbs (kg)	Design Slip Load Lbs (kg)
P1000	1,000 453.6	800 362.9
P1100	700 317.5	500 226.8
P2000	500 226.8	300 136.1

Safety factor of 3.

PLLC025

Flange Clamp



Set Screw Torque = 3 Ft-Lb
Lock Nut Torque = 3.5 Ft-Lb

X, Y are threaded holes.

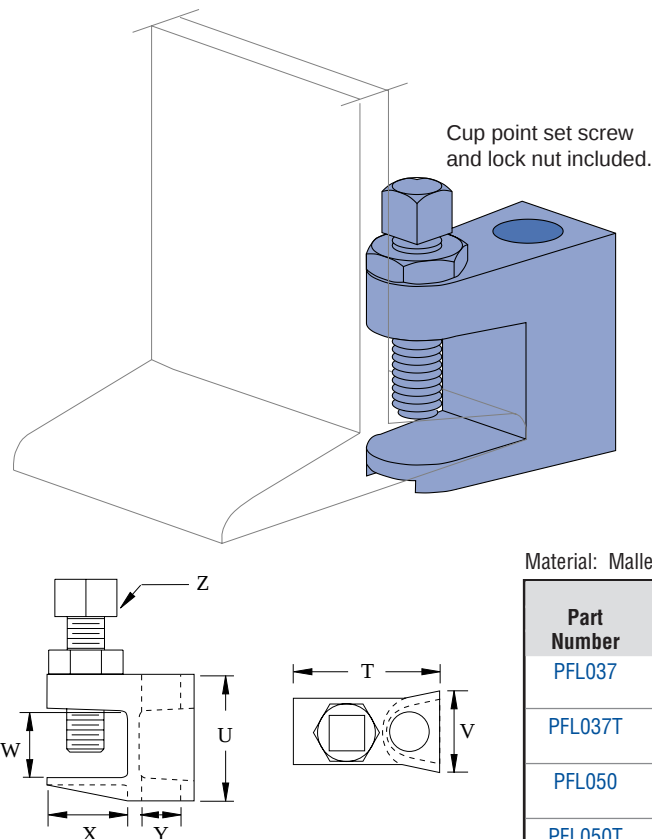
Part Number	Rod Size	"Z" Set Screw Size	Wt/100 pcs Lbs (kg)
PLLC025	1/4"	1/4"	16 7.3

Material: Malleable Iron.

Part Number	Dimensions				
	"S" In (mm)	"T" In (mm)	"U" In (mm)	"V", "W" In (mm)	"X", "Y" In
PLLC025	5/8 15.9	1 25.4	1 7/16 36.5	3/4 19.1	1/4 X 20

PFL037 thru PFL050T

Flange Clamp



FM (When used for sprinkler systems only.)

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

Safety Factor: 5

Part Number	Rod Size	"Z" Set Screw Size	Wt/100 pcs Lbs (kg)	Max. Allowable Load Lbs (kg)
PFL037	3/8"	3/8"	28 12.7	540 244.9
PFL037T	3/8"	3/8"	28 12.7	540 244.9
PFL050	1/2"	3/8"	40 18.1	700 317.5
PFL050T	1/2"	3/8"	40 18.1	700 317.5

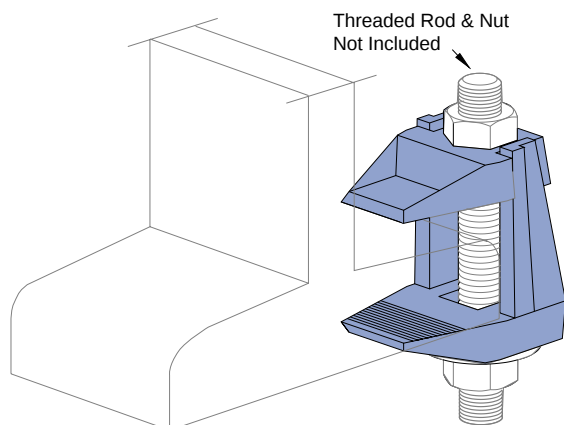
Material: Malleable Iron.

Part Number	Dimensions					
	"T" In (mm)	"U" In (mm)	"V" In (mm)	"W" In (mm)	"X" In (mm)	"Y" In (mm)
PFL037	1 11/16 42.9	1 9/16 39.7	7/8 22.2	3/4 19.1	1 25.4	7/16 11.1
PFL037T	1 11/16 42.9	1 9/16 39.7	7/8 22.2	3/4 19.1	1 25.4	3/8 Tapped Hole
PFL050	2 50.8	1 23/32 43.7	1 25.4	29/32 23.0	1 3/32 27.8	1 7/32 13.5
PFL050T	2 50.8	1 23/32 43.7	1 25.4	29/32 23.0	1 3/32 27.8	1/2 Tapped Hole



PLF3037 thru PLF3075

Flange Clamp

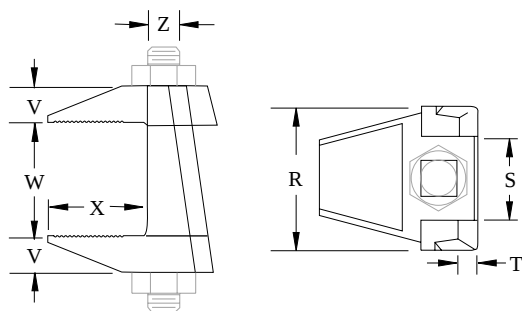


(When used for sprinkler systems only.)

Safety Factor: 4

Part Number	Rod Size	Wt/100 pcs Lbs (kg)	Max. Allowable Load Lbs (kg)	Torque Ft-Lbs
PLF3037	3/8"	53 24.0	270 122.5	15
PLF3050	1/2"	91 41.3	450 204.1	29
PLF3062	5/8"	186 84.4	900 408.2	69
PLF3075	3/4"	334 151.5	1,350 612.3	130

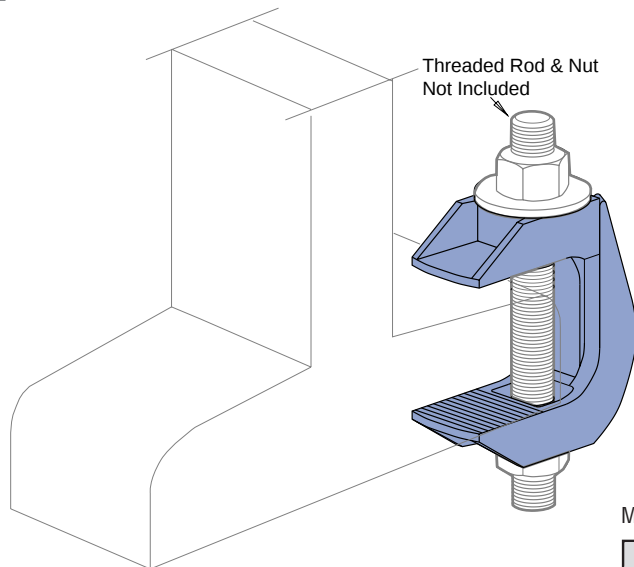
Material: Malleable Iron



Part Number	"X" In (mm)	"W" In (mm)	Dimensions "V" In (mm)	"T" In (mm)	"R" In (mm)	"S" In (mm)
PLF3037	1 25.4	0 - 1 1/16 0 - 30.2	3/8 9.5	9/32 7.1	1 1/2 38.1	7/8 22.2
PLF3050	1 3/8 34.9	0 - 1 1/16 0 - 39.7	1/2 12.7	1 1/32 8.7	1 15/16 49.2	1 5/32 29.4
PLF3062	1 13/16 46.0	0 - 2 3/16 0 - 55.6	5/8 15.9	1/2 12.7	2 11/32 59.5	1 7/16 36.5
PLF3075	2 3/16 55.6	0 - 1 3/4 0 - 44.5	3/4 19.1	5/8 15.9	3 76.2	1 3/4 44.5

PLF9037 thru PLF9100

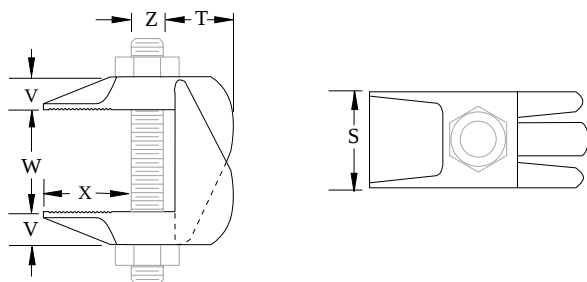
Flange Clamp



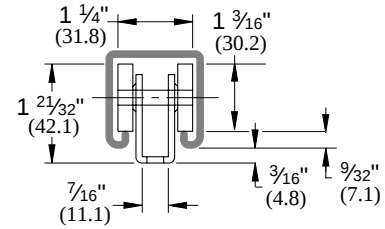
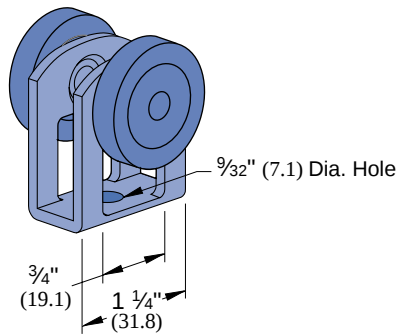
Safety Factor: 5

Part Number	Rod Size	Wt/100 pcs Lbs (kg)	Max. Allowable Load Lbs (kg)	Torque Ft-Lbs
PLF9037	3/8"	55 24.9	440 199.6	15
PLF9050	1/2"	122 55.3	630 285.8	29
PLF9062	5/8"	200 90.7	1,260 571.5	69
PLF9075	3/4"	367 166.5	1,880 852.8	131
PLF9100	1"	1,101 499.4	3,150 1428.8	173

Material: Malleable Iron



Part Number	"X" In (mm)	"W" In (mm)	Dimensions "V" In (mm)	"T" In (mm)	"S" In (mm)
PLF9037	1 25.4	3/4 - 1 1/16 19.1 - 42.9	1/2 12.7	3/4 19.1	1 25.4
PLF9050	1 3/8 34.9	1 - 2 3/8 25.4 - 60.3	2 1/32 16.7	1 5/16 23.8	1 3/16 30.2
PLF9062	1 11/16 42.9	1 1/8 - 2 3/4 28.6 - 69.9	1 3/16 20.6	1 1/8 28.6	1 3/8 34.9
PLF9075	2 50.8	1 1/4 - 3 1/4 31.8 - 182.6	1 25.4	1 3/8 34.9	1 3/4 44.5
PLF9100	3 76.2	1 3/4 - 3 3/4 44.5 - 95.3	1 1/2 38.1	2 3/16 55.6	2 1/2 63.5

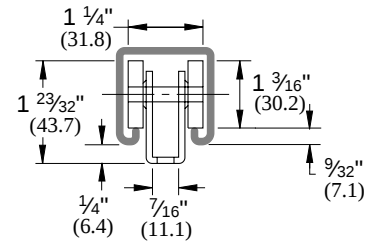
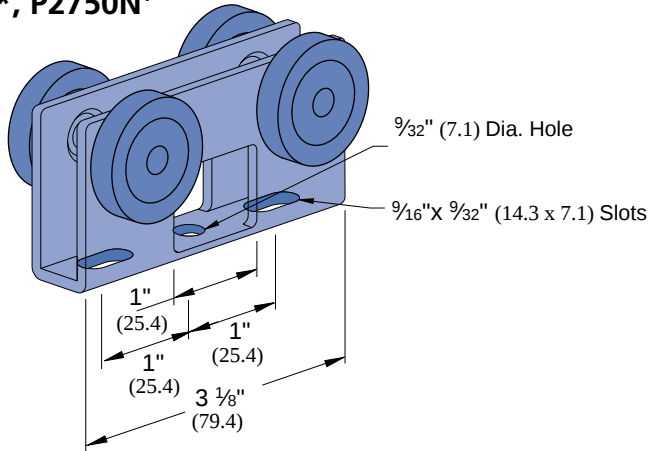
P2749*, P2749N†

Part Number	Design Load Lbs (kg)	Wt/100 pcs Lbs (kg)
P2749	50 22.7	21 9.5
P2749N	10 4.5	13 5.9

Clevis Material: 12 gauge.

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

† "N" indicates acetal wheels.

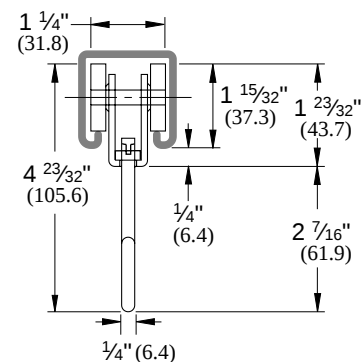
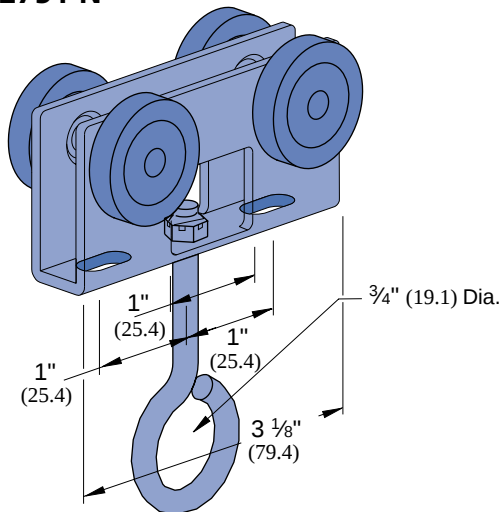
P2750*, P2750N†

Part Number	Design Load Lbs (kg)	Wt/100 pcs Lbs (kg)
P2750	100 45.4	55 24.9
P2750N	20 9.1	32 14.5

Clevis Material: 12 gauge.

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

† "N" indicates acetal wheels.

P2751*, P2751 N†

Part Number	Design Load Lbs (kg)	Wt/100 pcs Lbs (kg)
P2751	100 45.4	63 28.6
P2751N	20 9.1	40 18.1

Clevis Material: 12 gauge.

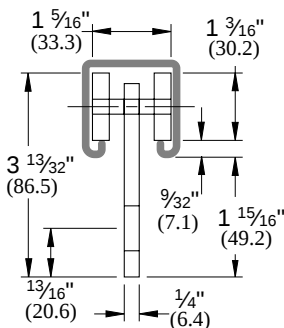
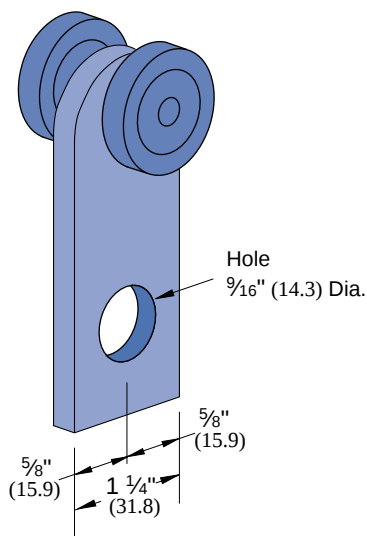
*Wheel bearings are stainless steel, and should not be lubricated.

† "N" indicates acetal wheels.



P2949

Wt/100 pcs: 46 Lbs (20.9 kg)

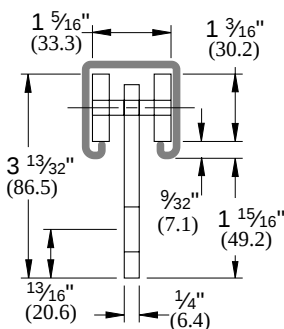
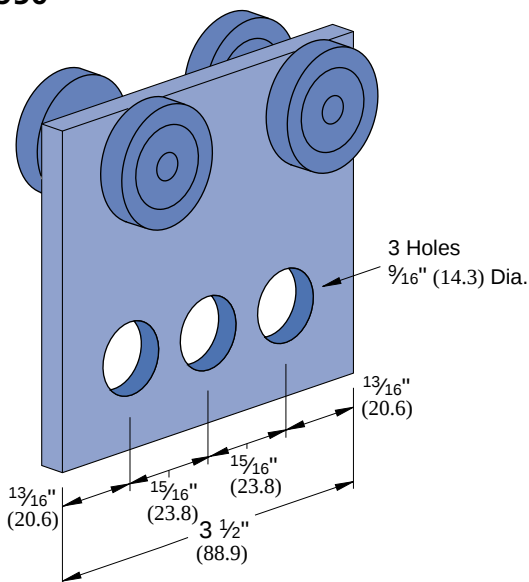


Design Load In P1000	
RPM	Lbs (kg)
600	150 <i>68.0</i>
300	225 <i>102.1</i>
100	437 <i>198.2</i>

Wheel bearings are stainless steel.
Do not lubricate.

P2950

Wt/100 pcs: 110 Lbs (49.9 kg)



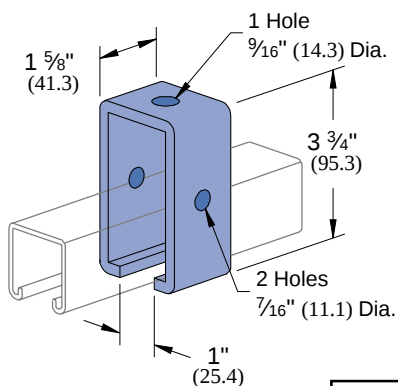
Design Load In P1000	
RPM	Lbs (kg)
600	300 <i>136.1</i>
300	450 <i>204.1</i>
100	600 <i>272.2</i>

Wheel bearings are stainless steel.
Do not lubricate.

P1834

Channel Trolley Support

Wt/100 pcs: 102 Lbs (46.3 kg)



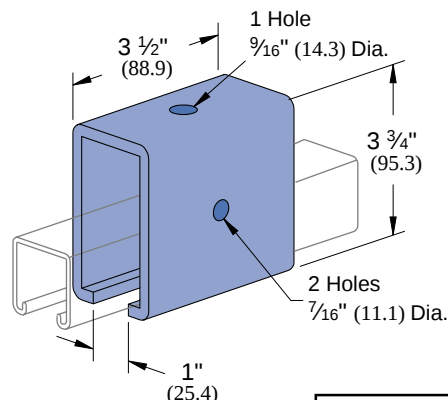
Requires 3/8" x 2 1/2" Bolt
and 3/8" Nut
(not included)

Design Load
1200 Lbs (544.3 kg)

P1834A

Channel Trolley Support

Wt/100 pcs: 220 Lbs (99.8 kg)

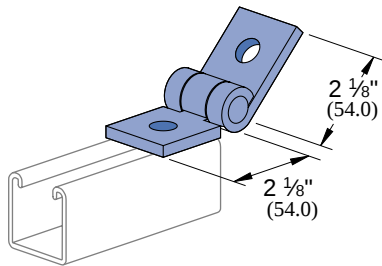


Requires 3/8" x 2 1/2" Bolt
and 3/8" Nut
(not included)

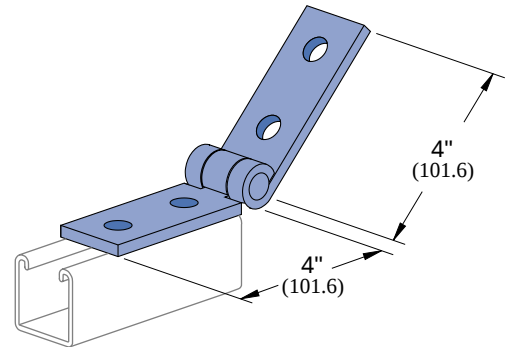
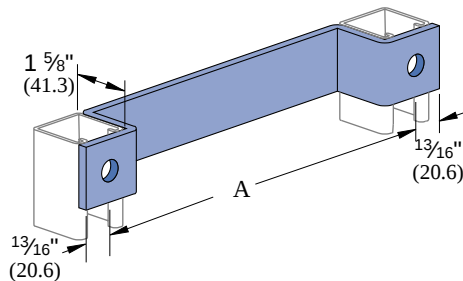
Design Load
2500 Lbs (1,134.0 kg)

P1843 Adjustable Hinge Connection

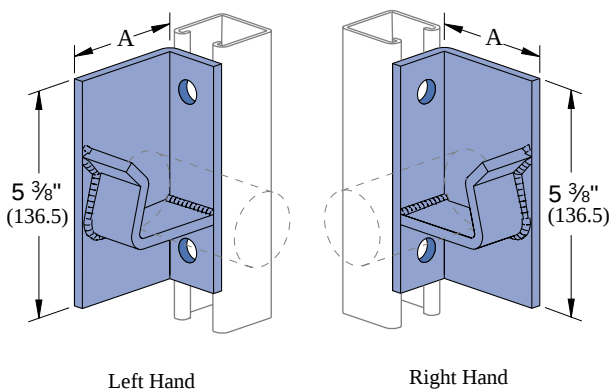
Wt/100 pcs: 68 Lbs (30.8 kg)

**P1354 Adjustable Hinge Connection**

Wt/100 pcs: 109 Lbs (49.4 kg)

**P1201, P1202, P1203****Ladder Rung**

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

P2354 R-L, P2355 R-L**Reel Rack Supports for 1 1/4" and 2" Pipe**

Part Number	"A" In (mm)	Std. Pipe Size In (mm)	Wt/100 pcs Lbs (kg)
P2354 R-L	3 76.2	1 1/4 31.8	220 99.8
P2355 R-L	3 5/8 92.1	2 50.8	252 114.3

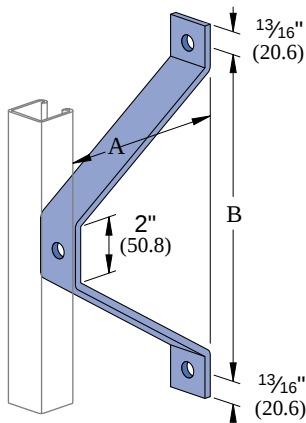
Vertical Channel Part No.	Gauge	Max. Allowable Load Lbs (kg)
P1000	12	3,000 1360.8
P1100	14	2,000 907.2
P2000	16	2,000 907.2

Standard Dimensions for 1 1/2" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)**Hole Diameter:** 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)



P1204 thru P1208

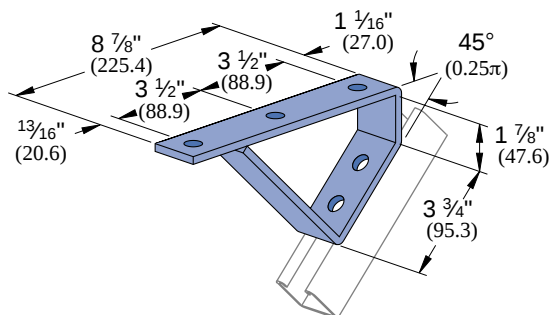
Wall Ladder Bracket



Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P1204	2 3/8 60.3	6 152.4	113 51.3
P1205	4 3/8 111.1	8 203.2	164 74.4
P1206	6 3/8 161.9	10 254.0	216 98.0
P1207	8 3/8 212.7	12 304.8	267 121.1
P1208	10 3/8 263.5	14 355.6	318 144.2

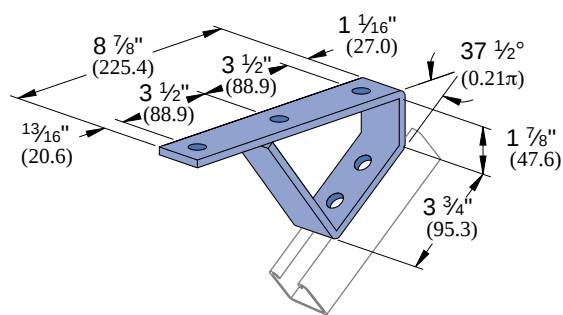
P1944 45° (.25π) Stair Tread Support

Wt/100 pcs: 220 Lbs (99.8 kg)

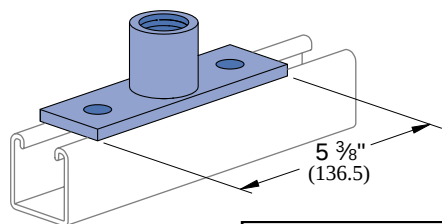


P2655 37 1/2° (.21π) Stair Tread Support

Wt/100 pcs: 213 Lbs (96.6 kg)



P2470-50, -75, -100 Pipe Coupling Fitting

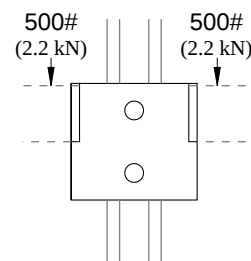
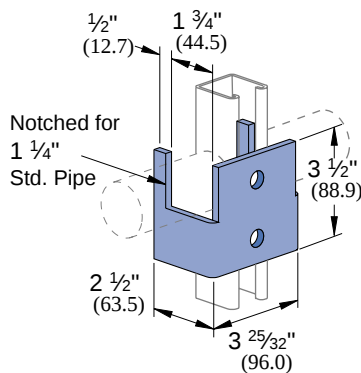


Part Number	Pipe Coupling Size In	Wt/100 pcs Lbs (kg)
P2470-50	1/2	77 34.9
P2470-75	3/4	93 42.2
P2470-100	1	103 46.7

P2454

Axle Support

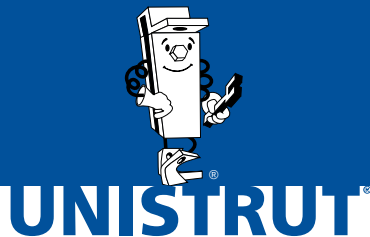
Wt/100 pcs: 148 Lbs (67.1 kg)



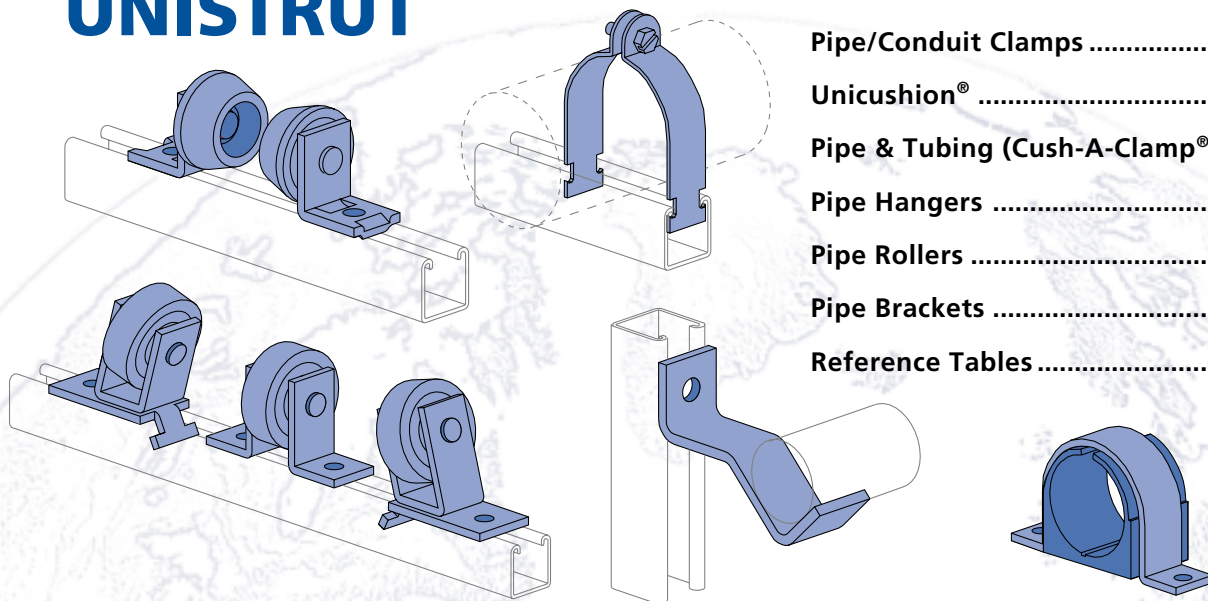
For 1 1/4" (31.8) Standard Pipe

Standard Dimensions for 1 1/2" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6 mm); Hole Spacing - On Center: 1 7/8" (47.6 mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6.4mm)



PIPE/CONDUIT SUPPORTS



Pipe/Conduit Clamps	139
Unicushion®	144
Pipe & Tubing (Cush-A-Clamp®) Clamps	146
Pipe Hangers	149
Pipe Rollers	150
Pipe Brackets	153
Reference Tables	154

MATERIAL

Unistrut pipe clamps, unless noted, are punch-press made from hot-rolled, pickled and oiled steel plates, strip or coil, and conform to ASTM specifications A1008, A575, A576, A635, or A36. The fitting steel also meets the physical requirements of ASTM A1011 SS GR 33. The pickling of the steel produces a smooth surface free from scale.

Many items are also available in stainless steel. 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)
- Perma-Green II (GR), and plain (PL).

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"	5/16"	3/8"	1/2"	5/8"	3/4"
FOOT LBS.	6	11	19	50	100	125
N•m	8	15	25	70	135	170

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.

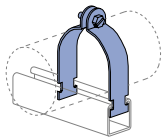
DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 5.0, unless otherwise noted.

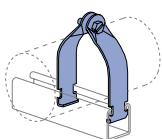
Pipe Clamps In Special Materials (P1109, P1211, P1425, P2024 Series)

Material	Add Suffix to P/N	Example
Steel Strap, Everdur Hardware	E	P1109 E
Copper Coated Steel Strap & Hardware	CC	P1109 CC
Aluminum	AL	P1109 AL
Stainless Steel 304 or 316	SS or ST	P1109 SS
Plastic Coated Steel Straps	PC	P1109 PC

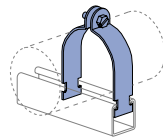
Pipe & Conduit Clamps



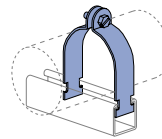
P1109 - Pg 139



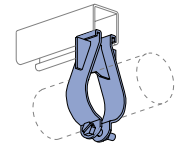
P1211 - Pg 141



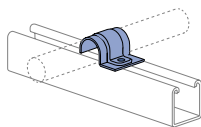
P1425 - Pg 139



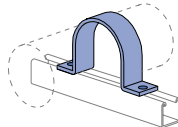
P2024 - Pg 140



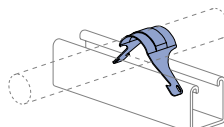
P1563 - Pg 141



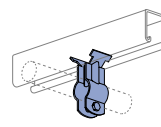
P2008 - Pg 141



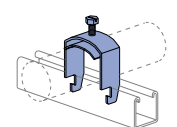
P2558 - Pg 142



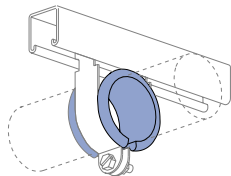
P2609 - Pg 142



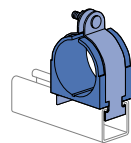
P3409 - Pg 143



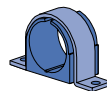
M5025 - Pg 143



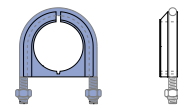
P2600 - Pg 144



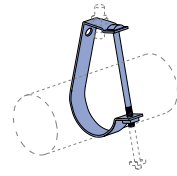
004T008 - Pg 146



004M007 - Pg 147

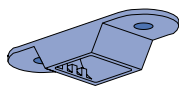


UB1/2PA - Pg 148

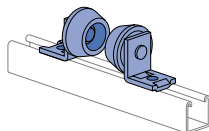


J1205 - Pg 149

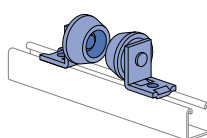
Pipe Rollers



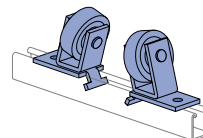
M30 - Pg 150



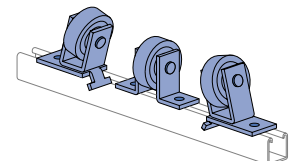
P2474 - Pg 150



P2474-1 - Pg 151

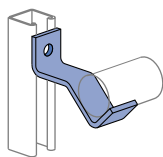


P2475 - Pg 152

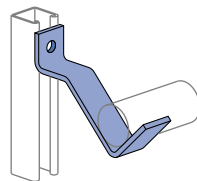


P2476 - Pg 152

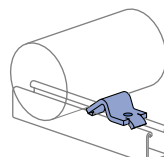
Pipe Brackets



P2481 - Pg 153



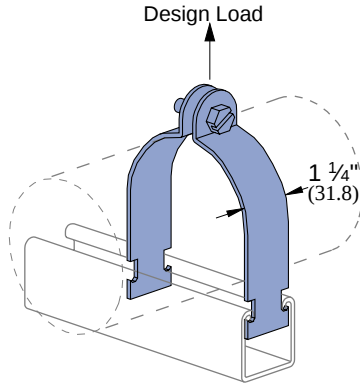
P2482 - Pg 153



P2243 - Pg 153

P1109 thru P1126

Pipe Clamps for Rigid Steel Conduit

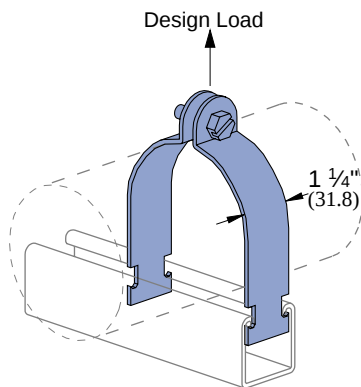


Slotted hex head screw and nut included.
Finish: Electro-galvanized.

Part Number	Pipe Size In	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P1109	3/8	0.675 17.1	16 1.5	10 4.5	400 181
P1111	1/2	0.840 21.3	16 1.5	11 5.0	400 181
P1112	3/4	1.050 26.7	14 1.9	15 6.8	600 272
P1113	1	1.315 33.4	14 1.9	17 7.7	600 272
P1114	1 1/4	1.660 42.2	14 1.9	19 8.6	600 272
P1115	1 1/2	1.900 48.3	12 2.7	29 13.2	800 363
P1117	2	2.375 60.3	12 2.7	34 15.4	800 363
P1118	2 1/2	2.875 73.0	12 2.7	40 18.1	800 363
P1119	3	3.500 88.9	12 2.7	47 21.3	800 363
P1120	3 1/2	4.000 101.6	11 3.0	62 28.1	1,000 454
P1121	4	4.500 114.3	11 3.0	67 30.4	1,000 454
P1123	5	5.563 141.3	11 3.0	80 36.3	1,000 454
P1124	6	6.625 168.3	10 3.4	102 46.3	1,000 454
P1126	8	8.625 219.1	10 3.4	130 59.0	1,000 454

P1425 thru P1431

Pipe Clamps for Thin Wall Conduit (E.M.T.)



Slotted hex head screw and nut included.
Finish: Electro-galvanized.

Part Number	Pipe Size In	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P1425	3/8	0.577 14.7	16 1.5	9 4.1	400 181
P1426	1/2	0.706 17.9	16 1.5	11 5.0	400 181
P1427	3/4	0.922 23.4	16 1.5	12 5.4	400 181
P1428	1	1.163 29.5	14 1.9	15 6.8	600 272
P1429	1 1/4	1.510 38.4	14 1.9	18 8.2	600 272
P1430	1 1/2	1.740 44.2	12 2.7	29 13.2	800 363
P1431	2	2.197 55.8	12 2.7	33 15.0	800 363
P1118	2 1/2	2.875 73.0	12 2.7	40 18.1	800 363
P1119	3	3.500 88.9	12 2.7	47 21.3	800 363
P1120	3 1/2	4.000 101.6	11 3.0	62 28.1	1,000 454
P1121	4	4.500 114.3	11 3.0	67 30.4	1,000 454

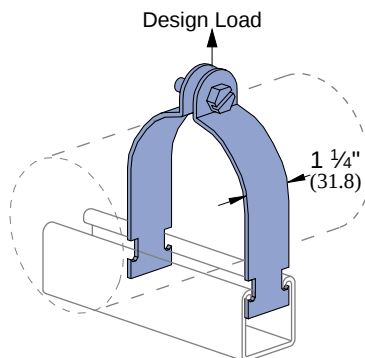


P2024 thru P2070-84

Pipe Clamps for O.D. Tubing

Finish: Electro-galvanized.
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.

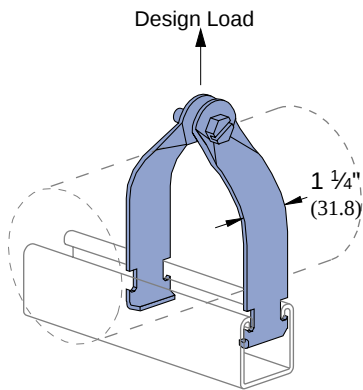


Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P2024	1/4 6.4	8 3.6	400 181
P2025	3/8 9.5	8 3.6	
P2026	1/2 12.7	9 4.1	
P2027	5/8 15.9	10 4.5	
P2028	3/4 19.1	11 5.0	
P2029	7/8 22.2	12 5.4	
P2030	1 25.4	14 6.4	600 272
P2031	1 1/8 28.6	15 6.8	
P2032	1 1/4 31.8	16 7.3	
P2033	1 3/8 34.9	17 7.7	
P2034	1 1/2 38.1	18 8.2	
P2035	1 5/8 41.3	19 8.6	
P1430	1 3/4 44.5	29 13.2	800 363
P2037	1 7/8 47.6	28 12.7	
P2038	2 50.8	31 14.1	
P2039	2 1/8 54.0	32 14.5	
P2040	2 1/4 57.2	33 15.0	
P1117	2 3/8 60.3	34 15.4	
P2042	2 1/2 63.5	35 15.9	
P2043	2 5/8 66.7	37 16.8	
P2044	2 3/4 69.9	38 17.2	
P1118	2 7/8 73.0	40 18.1	
P2046	3 76.2	41 18.6	

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P2047	3 1/8 79.4	43 19.5	800 363
P2048	3 1/4 82.6	45 20.4	
P2049	3 3/8 85.7	46 20.9	
P1119	3 1/2 88.9	47 21.3	
P2051	3 5/8 92.1	56 25.4	
P2052	3 3/4 95.3	58 26.3	
P2053	3 7/8 98.4	60 27.2	1,000 454
P1120	4 101.6	62 28.1	
P2055	4 1/8 104.8	62 28.1	
P2056	4 1/4 108.0	64 29.0	
P2057	4 3/8 111.1	66 29.9	
P1121	4 1/2 114.3	67 30.4	
P2059	4 5/8 117.5	70 31.8	
P2060	4 3/4 120.7	72 32.7	
P2061	4 7/8 123.8	73 33.1	
P2062	5 127.0	74 33.6	
P2063	5 1/8 130.2	76 34.5	
P2064	5 1/4 133.4	77 34.9	
P2065	5 3/8 136.5	78 35.4	
P2066	5 1/2 139.7	79 35.8	
P2067	5 5/8 142.9	88 39.9	
P2068	5 3/4 146.1	90 40.8	
P2069	5 7/8 149.2	92 41.7	

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P2070	6 152.4	94 42.6	
P2070-61	6 1/8 155.6	96 43.5	
P2070-62	6 1/4 158.8	98 44.5	
P2070-63	6 3/8 161.9	99 44.9	1,000 454
P2070-64	6 1/2 165.1	100 45.4	
P1124	6 5/8 168.3	102 46.3	
P2070-66	6 3/4 171.5	104 47.2	
P2070-67	6 7/8 174.6	106 48.1	
P2070-70	7 177.8	108 49.0	
P2070-71	7 1/8 181.0	110 49.9	
P2070-72	7 1/4 184.2	112 50.8	
P2070-73	7 3/8 187.3	114 51.7	
P2070-74	7 1/2 190.5	116 52.6	
P2070-75	7 5/8 193.7	117 53.1	
P2070-76	7 3/4 196.9	119 54.0	
P2070-77	7 7/8 200.0	121 54.9	
P2070-80	8 203.2	123 55.8	
P2070-81	8 1/8 206.4	125 56.7	
P2070-82	8 1/4 209.6	126 57.2	
P2070-83	8 3/8 212.7	128 58.1	
P2070-84	8 1/2 215.9	129 58.5	
P1126	8 5/8 219.1	130 59.0	

P1211 thru P1217

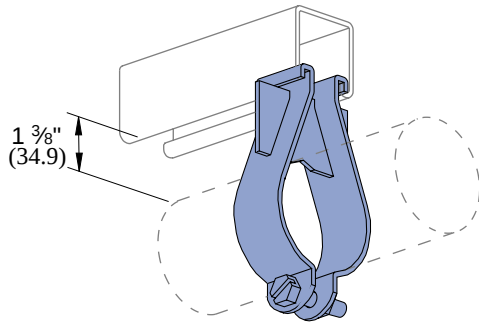


Slotted hex head screw and nut included.
Finish: Electro-galvanized.

Universal Clamps for Rigid or Thinwall Conduit

Part Number	Pipe/Conduit Size In	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
P1211	1/2	16 1.5	10 4.5	400 181
P1212	3/4	16 1.5	11 5.0	400 181
P1213	1	16 1.5	12 5.4	400 181
P1214	1 1/4	14 1.9	18 8.2	600 272
P1215	1 1/2	14 1.9	20 9.1	600 272
P1217	2	14 1.9	22 10.0	600 272

P1563 thru P1573

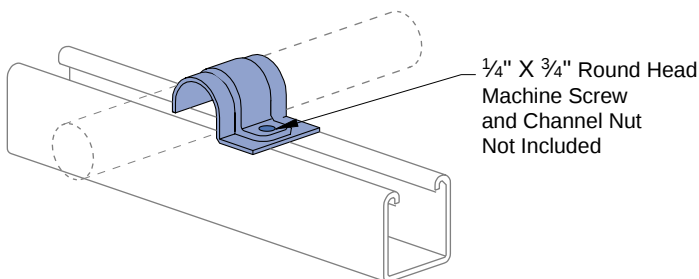


Slotted hex head screw and nut included.
Finish: Electro-galvanized.

Parallel Clamps for Rigid Conduit and Pipe

Part Number	Pipe Size In	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs (kg)
P1563	3/8	0.675 17.1	14 1.9	27 12.2
P1564	1/2	0.840 21.3	14 1.9	29 13.2
P1565	3/4	1.050 26.7	14 1.9	30 13.6
P1566	1	1.315 33.4	14 1.9	31 14.1
P1567	1 1/4	1.660 42.2	14 1.9	38 17.2
P1568	1 1/2	1.900 48.3	12 2.7	40 18.1
P1569	2	2.375 60.3	12 2.7	47 21.3
P1570	2 1/2	2.875 73.0	12 2.7	66 29.9
P1571	3	3.500 88.9	12 2.7	78 35.4
P1572	3 1/2	4.000 101.6	12 2.7	87 39.5
P1573	4	4.500 114.3	12 2.7	90 40.8

P2008 thru P2020



Finish: Electro-galvanized and Aluminum

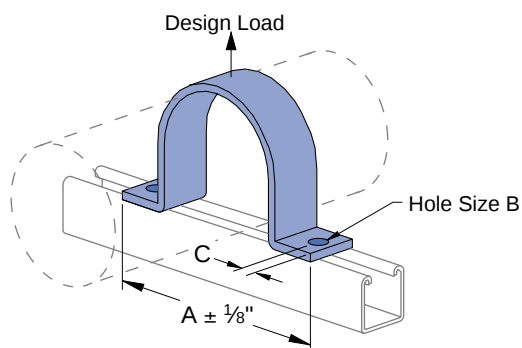
One Hole Clamp for O.D. Tubing

Part Number	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

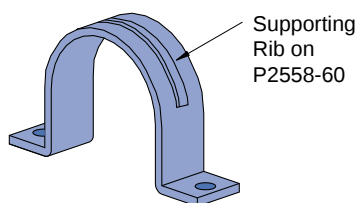


P2558-5 thru P2558-60

Single Piece Pipe Strap



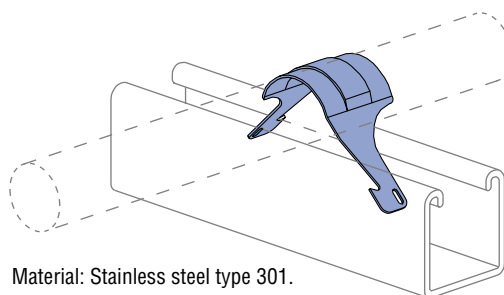
Hardware sold separately.



Part Number	Nominal 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	1/2	2 7/8 73.0				23 10.4	
P2558-07	3/4	3 1/8 79.4				26 11.8	
P2558-10	1	3 3/8 85.7	9/32 7.1	7/16 11.1	1/8 3.2	31 14.1	500 2.2
P2558-12	1 1/4	3 3/4 95.3				35 15.9	
P2558-15	1 1/2	3 7/8 98.4				39 17.7	
P2558-20	2	5 3/4 146.1				94 42.6	
P2558-25	2 1/2	6 1/4 158.8				114 51.7	
P2558-30	3	6 7/8 174.6				133 60.3	
P2558-35	3 1/2	7 3/8 187.3	7/16 11.1	1 1/16 17.5	1/4 6.4	152 68.9	1,000 4.4
P2558-40	4	7 7/8 200.0				176 79.8	
P2558-50	5	9 228.6				198 89.8	
P2558-60	6	10 254.0				225 102.1	

P2609 thru P2617, P2426 thru P2431

UNI-CLIP® Support



Material: Stainless steel type 301.

The Uni-Clip supports meet or exceed load requirements for American Standard Code for Pressure Piping (1967), and National Electric Code (1971).
Patent No. 2863625.

UNI-CLIP® SUPPORTS FOR THINWALL CONDUIT (E.M.T.)

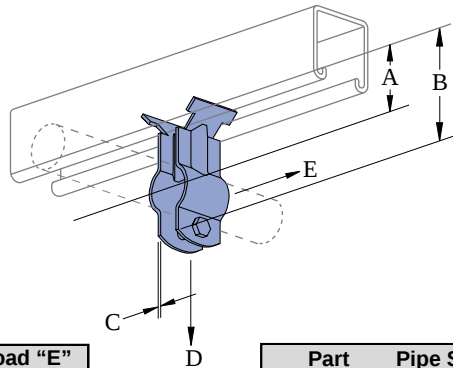
Part Number	Conduit Size In	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)
P2426	1/2	0.706 17.9	1.7 0.8
P2427	3/4	0.922 23.4	2.4 1.1
P2428	1	1.163 29.5	3.6 1.6
P2429	1 1/4	1.510 38.4	4.6 2.1
P2430	1 1/2	1.740 44.2	5.9 2.7
P2431	2	2.197 55.8	8 3.6

UNI-CLIP® SUPPORTS FOR RIGID STEEL CONDUIT

Part Number	Conduit Size In	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)
P2609	3/8	0.675 17.1	1.6 0.7
P2611	1/2	0.840 21.3	2.3 1.0
P2612	3/4	1.050 26.7	3.2 1.5
P2613	1	1.315 33.4	4.1 1.9
P2614	1 1/4	1.660 42.2	5.1 2.3
P2615	1 1/2	1.900 48.3	6.3 2.9
P2617	2	2.375 60.3	10 4.5

P3409 thru P3417

Stand-off Pipe Clamps



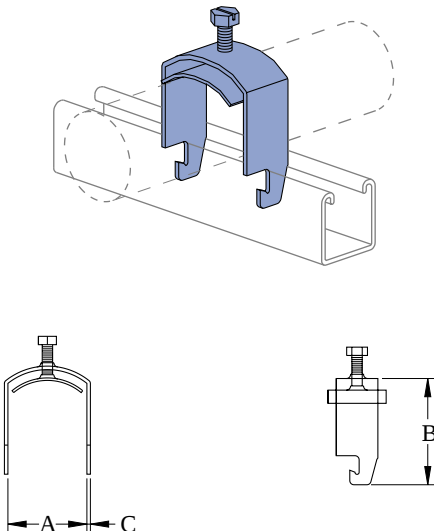
Hardware included.
Finish: Electro-galvanized.
Pipe Clamp 1½" Wide
Patent No. 3417951.
Safety factor of 5

Part Number	Load "D" Lbs (kN)	Load "E" Lbs (kN)
P3409	100 45.4	25 11.3
P3411	150 68.0	35 15.9
P3412	175 79.4	40 18.1
P3413	200 90.7	50 22.7
P3414	300 136.1	70 31.8
P3415	400 181.4	80 36.3
P3417	500 226.8	120 54.4

Part Number	Pipe Size In	O.D. Size In (mm)	A In (mm)	B In (mm)	C Gauge (mm)	Wt/100 pcs Lbs (kg)
P3409	¾	0.675 17.1	1½ 28.6	2½ 54.0	14 1.9	14 6.4
P3411	½	0.840 21.3	1¼ 31.8	2½ 58.7	14 1.9	15 6.8
P3412	¾	1.050 26.7	1½ 33.3	2½ 63.5	14 1.9	19 8.6
P3413	1	1.315 33.4	1½ 38.1	2¾ 69.9	14 1.9	22 10.0
P3414	1¼	1.660 42.2	1½ 42.9	3¼ 82.6	12 2.7	34 15.4
P3415	1½	1.900 48.3	1¾ 44.5	3½ 88.9	11 3.0	49 22.2
P3417	2	2.375 60.3	2 50.8	4 101.6	10 3.4	55 24.9

M5025 thru M5060

One-piece Cable and Conduit Clamps



Part Number	Max O.D. Size In (mm)	"A" In (mm)	"B" In (mm)	"C" Gauge (mm)	Wt/100 pcs Lbs (kg)
M5025	¾ 9.5	7/16 11.1	1½ 41.3	14 1.9	6 2.7
M5026	½ 12.7	9/16 14.3	1¾ 44.5	14 1.9	7 3.2
M5028	¾ 19.1	13/16 20.6	2 50.8	14 1.9	12 5.4
M5030	1 25.4	1½ 27.0	2¼ 57.2	14 1.9	15 6.8
M5032	1¼ 31.8	1½ 33.3	2½ 63.5	14 1.9	19 8.6
M5034	1½ 38.1	1½ 39.7	2¾ 69.9	14 1.9	20 9.1
M5036	1¾ 44.5	1¾ 46.0	3 76.2	12 2.7	25 11.3
M5038	2 50.8	2½ 52.4	3¼ 82.6	12 2.7	35 15.9
M5041	2½ 60.3	2½ 61.9	3½ 92.1	12 2.7	41 18.6
M5044	2¾ 69.9	2¾ 71.4	4 101.6	12 2.7	60 27.2
M5048	3¼ 82.6	3¾ 84.1	4½ 114.3	12 2.7	74 33.6
M5052	3¾ 95.3	3¾ 96.8	5 127.0	12 2.7	91 41.3
M5054	4 101.6	4½ 103.2	5¼ 133.4	12 2.7	100 45.4
M5057	4¾ 111.1	4¾ 112.7	5½ 142.9	10 3.4	115 52.2
M5060	4¾ 120.7	4¾ 122.2	6 152.4	10 3.4	125 56.7

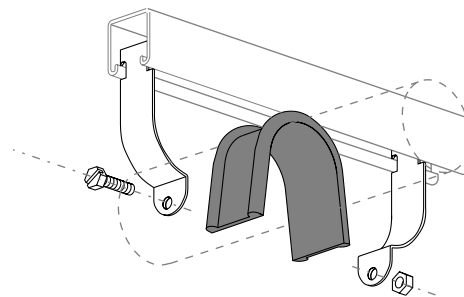
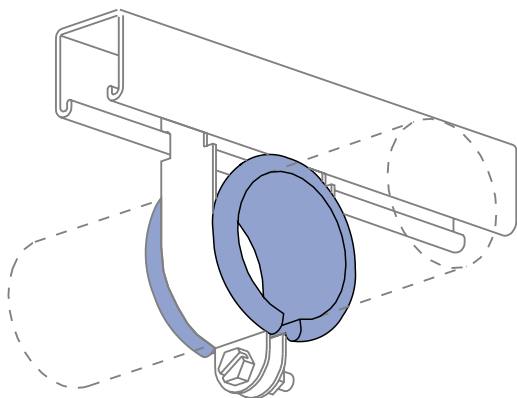
Finish: Electro-galvanized and Aluminum.



P2600

UNICUSHION®: Isolation Material

Wt/Carton: 2.5 Lbs (1.1 kg)



UNICUSHION FEATURES

- Shock absorption
- Protection from corrosion and abrasion
- Allowance for expansion and contraction
- Sound and vibration isolation
- Stability in use from - 50° F (-47° C) to + 350°F (+177° C)
- Flexible elastomer material
- Will not support combustion

- 25 feet per carton.
- Cut to length as shown in charts.

Clamp Selection & Cutting Guide

UNICUSHION®

EMT CONDUIT

Nominal Size	Use with Clamp	UNICUSHION Length In (mm)
3/8"	P1426	1 3/4 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

Clamp Selection & Cutting Guide (continued)

UNICUSHION®

O. D. Size In (mm)	Use With Clamp	UNICUSHION Length In (mm)
¼ 6.4	P2025	⅞ 22.2
⅜ 9.5	P2026	1⅞ 27.0
½ 12.7	P2027	1½ 38.1
⅝ 15.9	P2028	2½ 54.0
¾ 19.1	P2029	2¼ 57.2
⅞ 22.2	P2030	3 76.2
1 25.4	P2031	3¼ 82.6
1⅛ 28.6	P2032	3⅝ 92.1
1¼ 31.8	P2033	4 101.6
1⅝ 34.9	P2034	4½ 114.3
1½ 38.1	P2035	4⅞ 123.8
1⅞ 41.3	P1430	5¼ 133.4
1¾ 44.5	P2037	5½ 139.7
1⅞ 47.6	P2038	6 152.4
2 50.8	P2039	6½ 165.1
2⅛ 54.0	P2040	6¾ 171.5
2¼ 57.2	P1117	7¼ 184.2
2⅜ 60.3	P2042	7½ 190.5
2½ 63.5	P2043	8 203.2
2⅝ 66.7	P2044	8¼ 209.6
2¾ 69.9	P1118	8¼ 222.3
2⅞ 73.0	P2046	9¼ 235.0
3 76.2	P2047	9½ 241.3

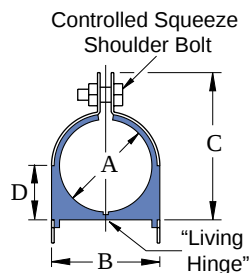
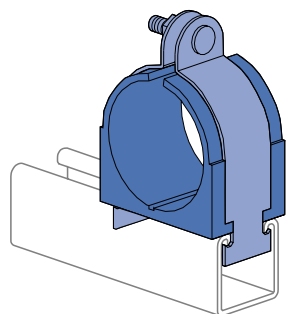
O. D. Size In (mm)	Use With Clamp	UNICUSHION Length In (mm)
3⅞ 79.4	P2048	10 254.0
3¼ 82.6	P2049	10½ 266.7
3⅝ 85.7	P1119	10¾ 273.1
3½ 88.9	P2051	11 279.4
3⅝ 92.1	P2052	11¼ 285.8
3¾ 95.3	P2053	11½ 292.1
3⅞ 98.4	P1120	11¾ 298.5
4 101.6	P2055	12 304.8
4⅛ 104.8	P2056	12½ 317.5
4¼ 108.0	P2057	13 330.2
4⅝ 111.1	P1121	13½ 342.9
4½ 114.3	P2059	14 355.6
4⅝ 117.5	P2060	14¼ 362.0
4¾ 120.7	P2061	14¾ 374.7
4⅞ 123.8	P2062	15 381.0
5 127.0	P2063	15½ 393.7
5⅛ 130.2	P2064	16 406.4
5¼ 133.4	P2065	16¼ 412.8
5⅝ 136.5	P2066	16½ 419.1
5½ 139.7	P2067	17 431.8
5⅞ 142.9	P2068	17½ 444.5
5¾ 146.1	P2069	17¾ 450.9
5⅞ 149.2	P2070	18¼ 463.6

O. D. Size In (mm)	Use With Clamp	UNICUSHION Length In (mm)
6 152.4	P2070-61	18½ 469.9
6⅛ 155.6	P2070-62	19 482.6
6¼ 158.8	P2070-63	19¼ 489.0
6⅝ 161.9	P2070-64	19¾ 501.7
6½ 165.1	P1124	20 508.0
6⅞ 168.3	P2070-66	20½ 520.7
6¾ 171.5	P2070-67	21 533.4
6⅞ 174.6	P2070-70	21¼ 539.8
7 177.8	P2070-71	21¾ 552.5
7⅛ 181.0	P2070-72	22 558.8
7¼ 184.2	P2070-73	22½ 571.5
7⅝ 187.3	P2070-74	22¾ 577.9
7½ 190.5	P2070-75	23¼ 590.6
7⅞ 193.7	P2070-76	23½ 596.9
7¾ 196.9	P2070-77	24 609.6
7⅞ 200.0	P2070-80	24½ 622.3
8 203.2	P2070-81	24¾ 628.7
8⅛ 206.4	P2070-82	25 635.0
8¼ 209.6	P2070-83	25½ 647.7
8⅝ 212.7	P2070-84	26 660.4
8½ 215.9	P1126	26¼ 666.8



004T008 thru 098N106, 009N012 thru 106N114

CUSH-A-CLAMP® Assembly



Materials:

Clamp: Electro-galvanized or stainless steel.

Cushion: Thermoplastic elastomer.

Includes cushion, clamp and hardware.

Patent Numbers: 4,516,296; 4,934,635

Part Numbers are "coded" to designate cushion size and clamp size. Examples:

- 004T008** 004 - Cushion Size $\frac{1}{16}$ " (6.4)
T - With Controlled Squeeze Shoulder Bolt
008 - Clamp Size $\frac{1}{16}$ " (12.7)
- 009N012** 009 - Cushion Size $\frac{1}{16}$ " (14.3)
N - With Standard Bolt
012 - Clamp Size $\frac{1}{16}$ " (19.1)

Tube Series Assembly

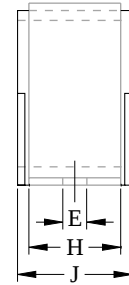
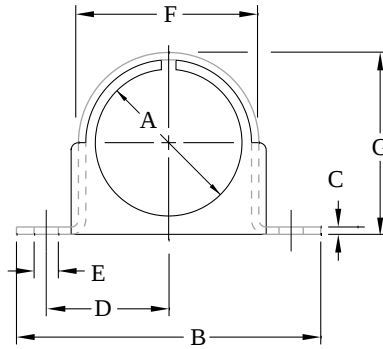
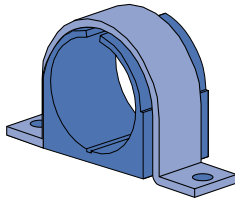
Part Number	Copper & Steel Tube O. D. Size	Copper Water Pipe (Nominal)	Dimensions				Wt/100 pcs Lbs(kg)
			"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	
004T008	$\frac{1}{4}$		0.25 6.4	0.62 15.7	0.98 24.9	0.27 6.9	10 4.5
006T010	$\frac{3}{8}$	$\frac{1}{4}$	0.37 9.4	0.82 20.8	1.13 28.7	0.33 8.4	11 5.0
008T012	$\frac{1}{2}$	$\frac{3}{8}$	0.50 12.7	0.94 23.9	1.34 34.0	0.40 10.2	13 5.9
010T014	$\frac{5}{8}$	$\frac{1}{2}$	0.62 15.7	1.06 26.9	1.54 39.1	0.46 11.7	14 6.4
012T016	$\frac{3}{4}$	$\frac{5}{8}$	0.75 19.1	1.20 30.5	1.68 42.7	0.52 13.2	14 6.4
014T018	$\frac{7}{8}$	$\frac{3}{4}$	0.87 22.1	1.31 33.3	1.82 46.2	0.58 14.7	15 6.8
016T020	1		1.00 25.4	1.44 36.6	1.95 49.5	0.65 16.5	17 7.7
018T022	$1\frac{1}{8}$	1	1.12 28.4	1.57 39.9	2.08 52.8	0.70 17.8	18 8.2
020T024	$1\frac{1}{4}$		1.25 31.8	1.70 43.2	2.21 56.1	0.77 19.6	18 8.2
022T026	$1\frac{3}{8}$	$1\frac{1}{4}$	1.37 34.8	1.82 46.2	2.34 59.4	0.83 21.1	20 9.1
024N028	$1\frac{1}{2}$		1.50 38.1	1.95 49.5	2.47 62.7	0.90 22.9	33 15.0
026N030	$1\frac{5}{8}$	$1\frac{1}{2}$	1.62 41.1	2.07 52.6	2.60 66.0	0.96 24.4	35 15.9
028N032	$1\frac{3}{4}$		1.75 44.5	2.20 55.9	2.73 69.3	1.02 25.9	37 16.8
030N034	$1\frac{7}{8}$		1.87 47.5	2.32 58.9	2.86 72.6	1.09 27.7	39 17.7
032N036	2		2.00 50.8	2.45 62.2	3.04 77.2	1.15 29.2	46 20.9
034N040	$2\frac{1}{8}$		2.12 53.8	2.57 65.3	3.23 82.0	1.27 32.3	47 21.3
038N044	$2\frac{3}{8}$		2.37 60.2	2.82 71.6	3.67 93.2	1.41 35.8	49 22.2
040N046	$2\frac{1}{2}$		2.50 63.5	2.94 74.7	3.79 96.3	1.46 37.1	51 23.1
042N048	$2\frac{5}{8}$		2.62 66.5	3.07 78.0	3.92 99.6	1.53 38.9	55 24.9
046N052	$2\frac{7}{8}$		2.87 72.9	3.32 84.3	4.17 105.9	1.66 42.2	57 25.9
050N054	3		3.00 76.2	3.57 90.7	4.42 112.3	1.78 45.2	60 27.2
050N056	$3\frac{1}{8}$		3.12 79.2	3.57 90.7	4.42 112.3	1.78 45.2	60 27.2
053N060	$3\frac{1}{2}$		3.31 84.1	3.96 100.6	4.75 120.7	1.90 48.3	62 28.1
056N062	$3\frac{3}{4}$		3.50 88.9	3.95 100.3	4.79 121.7	1.97 50.0	55 24.9
058N064	$3\frac{5}{8}$		3.62 91.9	4.20 106.7	4.99 126.7	2.03 51.6	70 31.8
064N072	4		4.00 101.6	4.45 113.0	5.42 137.7	2.28 57.9	88 39.9
066N074	$4\frac{1}{8}$		4.12 104.6	4.57 116.1	5.54 140.7	2.34 59.4	94 42.6
069N076	$4\frac{1}{4}$		4.34 110.2	4.96 126.0	5.84 148.3	2.40 61.0	100 45.4
072N080	$4\frac{1}{2}$		4.50 114.3	4.95 125.7	5.92 150.4	2.53 64.3	110 49.9
082N090	$5\frac{1}{8}$		5.12 130.0	5.57 141.5	6.54 166.1	2.84 72.1	125 56.7
098N106	$6\frac{1}{8}$		6.12 155.4	6.57 166.9	7.54 191.5	3.34 84.8	130 59.0

Pipe Series Assembly

Part Number	Nominal Pipe Size	Dimensions				Wt/100 pcs Lbs(kg)
		"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	
009N012	$\frac{1}{4}$	0.54 13.7	0.98 24.9	1.34 34.0	0.43 10.9	13 5.9
011N014	$\frac{3}{8}$	0.67 17.0	1.13 28.7	1.54 39.1	0.49 12.4	14 6.4
014N018	$\frac{1}{2}$	0.84 21.3	1.29 32.8	1.82 46.2	0.58 14.7	15 6.8
017N022	$\frac{3}{4}$	1.05 26.7	1.50 38.1	1.95 49.5	0.70 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	$1\frac{1}{4}$	1.66 42.2	2.17 55.1	2.73 69.3	0.99 25.1	35 15.9
030N034	$1\frac{1}{2}$	1.90 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	$2\frac{1}{2}$	2.87 72.9	3.32 84.3	4.17 105.9	1.66 42.2	57 25.9
056N062	3	3.50 88.9	3.95 100.3	4.79 121.7	1.97 50.0	55 24.9
064N072	$3\frac{1}{2}$	4.00 101.6	4.45 113.0	5.42 137.7	2.28 57.9	88 39.9
072N080	4	4.50 114.3	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

004M007 thru 034M040

CUSH-A-CLAMP® Assembly Omega Series™



Includes clamp and cushion.

Materials: Clamp: ZD or stainless steel.

Cushion: Thermoplastic elastomer..

Note: Cannot be mounted on the slotted side of metal framing channel.
Can be mounted to any flat surface.

Part Number	Copper & Steel Tubing	Copper Water Pipe	Pipe Size	Dimensions									Wt/100 pcs
	O. D. In	(Nominal) In	(Nominal) In	"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)	Lbs (kg)
004M007	1/4			0.25 6.4	1.81 46.0	0.06 1.5	0.60 15.2	0.20 5.1	0.53 13.5	0.48 12.2	0.62 15.7	0.78 19.8	3.4 1.5
006M008	3/8	1/4		0.37 9.4	1.90 48.3	0.06 1.5	0.65 16.5	0.20 5.1	0.62 15.7	0.62 15.7	0.62 15.7	0.81 20.6	4.0 1.8
008M011	1/2	3/8	1/4	0.50 12.7	2.20 55.9	0.06 1.5	0.80 20.3	0.26 6.6	0.82 20.8	0.75 19.1	0.75 19.1	0.98 24.9	5.5 2.5
010M013	5/8	1/2	3/8	0.62 15.7	2.32 58.9	0.06 1.5	0.86 21.8	0.26 6.6	0.94 23.9	0.87 22.1	0.75 19.1	0.98 24.9	6.0 2.7
012M015	3/4	5/8		0.75 19.1	2.41 61.2	0.06 1.5	0.90 22.9	0.26 6.6	1.03 26.2	1.01 25.7	0.75 19.1	0.98 24.9	6.5 2.9
014M017	7/8	3/4	1/2	0.87 22.1	2.56 65.0	0.06 1.5	0.98 24.9	0.26 6.6	1.18 30.0	1.03 26.2	0.75 19.1	0.98 24.9	7.1 3.2
016M019	1			1.00 25.4	2.68 68.1	0.06 1.5	1.04 26.4	0.26 6.6	1.31 33.3	1.25 31.8	0.75 19.1	0.98 24.9	7.8 3.5
018M020			3/4	1.05 26.7	2.68 68.1	0.06 1.5	1.04 26.4	0.26 6.6	1.31 33.3	1.25 31.8	0.75 19.1	0.98 24.9	8.1 3.7
018M021	1 1/8	1		1.12 28.4	2.82 71.6	0.06 1.5	1.11 28.2	0.26 6.6	1.44 36.6	1.33 33.8	0.75 19.1	0.98 24.9	8.4 3.8
020M024	1 1/4			1.25 31.8	3.00 76.2	0.08 2.0	1.20 30.5	0.26 6.6	1.65 41.9	1.47 37.3	1.25 31.8	1.56 39.6	17 7.7
021M026			1	1.31 33.3	3.12 79.2	0.08 2.0	1.26 32.0	0.26 6.6	1.76 44.7	1.71 43.4	1.25 31.8	1.56 39.6	20 9.1
022M026	1 3/8	1 1/4		1.37 34.8	3.12 79.2	0.08 2.0	1.26 32.0	0.26 6.6	1.76 44.7	1.71 43.4	1.25 31.8	1.56 39.6	19 8.6
024M028	1 1/2			1.50 38.1	3.65 92.7	0.08 2.0	1.42 36.1	0.26 6.6	1.93 49.0	1.88 47.8	1.25 31.8	1.56 39.6	20 9.1
026M030	1 5/8	1 1/2		1.62 41.1	3.77 95.8	0.08 2.0	1.48 37.6	0.26 6.6	2.07 52.6	2.00 50.8	1.25 31.8	1.56 39.6	23 10.4
027M032			1 1/4	1.66 42.2	3.90 99.1	0.10 2.5	1.55 39.4	0.33 8.4	2.21 56.1	2.12 53.8	1.25 31.8	1.56 39.6	32 14.5
028M032	1 3/4			1.75 44.5	3.90 99.1	0.10 2.5	1.55 39.4	0.33 8.4	2.21 56.1	2.12 53.8	1.25 31.8	1.56 39.6	32 14.5
030M034	1 7/8		1 1/2	1.87 47.5	4.02 102.1	0.10 2.5	1.61 40.9	0.33 8.4	2.33 59.2	2.25 57.2	1.25 31.8	1.56 39.6	34 15.4
032M036	2			2.00 50.8	4.15 105.4	0.10 2.5	1.67 42.4	0.33 8.4	2.46 62.5	2.38 60.5	1.25 31.8	1.56 39.6	36 16.3
034M040	2 1/8			2.12 53.8	4.40 111.8	0.10 2.5	1.80 45.7	0.33 8.4	2.71 68.8	2.62 66.5	1.25 31.8	1.56 39.6	41 18.6
038M044			2	2.37 60.2	4.71 119.6	0.10 2.5	1.94 49.3	0.33 8.4	2.96 75.2	2.88 73.2	1.25 31.8	1.56 39.6	44 20.0
082M090	5 1/8			5.12 130.0	7.64 194.1	0.10 2.5	3.41 86.6	0.40 10.2	5.83 148.1	6.75 171.5	1.25 31.8	1.56 39.6	120 54.4

1 5/8" Channel

Telestrut System

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

1 1/4" Framing System

1 3/8" Framing System

Fiberglass System

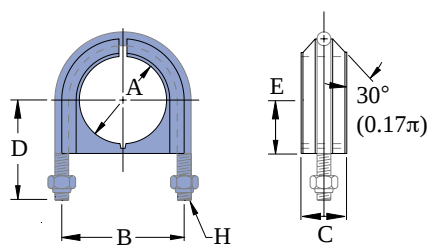
Special Metals

PrimeAngle System

Product Index

UB $\frac{1}{2}$ PA thru UB12PA

CUSH-A-CLAMP® Assembly U-Bolt Series

 $\frac{1}{2}$ " thru 6" assembly.

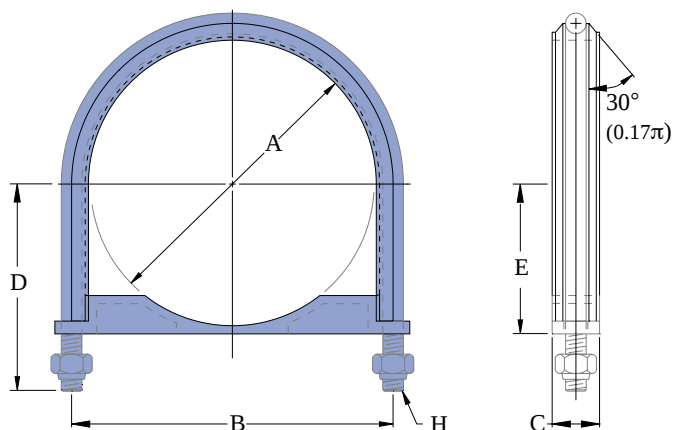
Includes U bolt, cushion, and hardware.

Materials:

U Bolt: Electro-galvanized finish or Type 316SS

Cushion: Thermoplastic elastomer.

Note: Not intended for use with metal framing components due to the length of the thread.

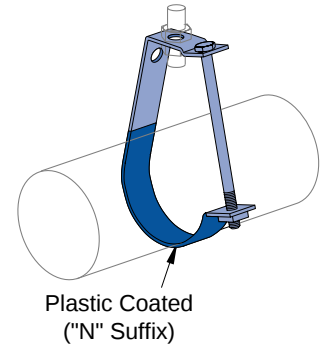
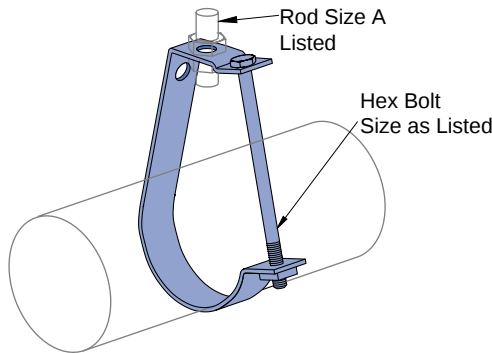


8" thru 12" assembly.

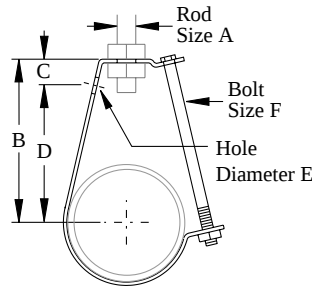
Part Number	Pipe Size (Nominal)	"A"	"B"	Dimensions		"E"	"F"	H	Wt/100 pcs
	In	In (mm)	In (mm)	"C"	"D"	In (mm)	In (mm)		Lbs (kg)
UB $\frac{1}{2}$ PA	$\frac{1}{2}$	0.84 21.3	1.60 40.6	0.68 17.3	1.5 38.1	0.67 17.0	$\frac{1}{4}$ 6.4	$\frac{1}{4}$ -20 UNC-2B	9 4.1
UB $\frac{3}{4}$ PA	$\frac{3}{4}$	1.05 26.7	1.80 45.7	0.68 17.3	1.6 40.6	0.78 19.8	$\frac{1}{4}$ 6.4	$\frac{1}{4}$ -20 UNC-2B	10 4.5
UB1PA	1	1.31 33.3	2.05 52.1	0.68 17.3	1.7 43.2	0.91 23.1	$\frac{1}{4}$ 6.4	$\frac{1}{4}$ -20 UNC-2B	12 5.4
UB1 $\frac{1}{4}$ PA	1 $\frac{1}{4}$	1.66 42.2	2.54 64.5	1.24 31.5	2.1 53.3	1.08 27.4	$\frac{3}{8}$ 9.5	$\frac{3}{8}$ -16 UNC-2B	36 16.3
UB1 $\frac{1}{2}$ PA	1 $\frac{1}{2}$	1.90 48.3	2.78 70.6	1.24 31.5	2.2 55.9	1.19 30.2	$\frac{3}{8}$ 9.5	$\frac{3}{8}$ -16 UNC-2B	32 14.5
UB2PA	2	2.37 60.2	3.32 84.3	1.24 31.5	2.5 63.5	1.45 36.8	$\frac{3}{8}$ 9.5	$\frac{3}{8}$ -16 UNC-2B	42 19.1
UB2 $\frac{1}{2}$ PA	2 $\frac{1}{2}$	2.87 72.9	3.88 98.6	1.24 31.5	3.0 76.2	1.69 42.9	$\frac{1}{2}$ 12.7	$\frac{1}{2}$ -13 UNC-2B	72 32.7
UB3PA	3	3.50 88.9	4.50 114.3	1.24 31.5	3.3 83.8	2.00 50.8	$\frac{1}{2}$ 12.7	$\frac{1}{2}$ -13 UNC-2B	84 38.1
UB3 $\frac{1}{2}$ PA	3 $\frac{1}{2}$	4.00 101.6	5.00 127.0	1.24 31.5	3.7 94.0	2.25 57.2	$\frac{1}{2}$ 12.7	$\frac{1}{2}$ -13 UNC-2B	93 42.2
UB4PA	4	4.50 114.3	5.50 139.7	1.24 31.5	3.9 99.1	2.5 63.5	$\frac{1}{2}$ 12.7	$\frac{1}{2}$ -13 UNC-2B	102 46.3
UB5PA	5	5.56 141.2	6.59 167.4	1.24 31.5	4.5 114.3	3.03 77.0	$\frac{1}{2}$ 12.7	$\frac{1}{2}$ -13 UNC-2B	123 55.8
UB6PA	6	6.62 168.1	7.81 198.4	1.44 36.6	5.4 137.2	3.56 90.4	$\frac{5}{8}$ 15.9	$\frac{5}{8}$ -11 UNC-2B	123 55.8
UB8PA	8	8.62 218.9	9.84 249.9	1.44 36.6	6.4 162.6	4.56 115.8	$\frac{5}{8}$ 15.9	$\frac{5}{8}$ -11 UNC-2B	243 110.2
UB10PA	10	10.75 273.1	12.25 311.2	1.65 41.9	7.7 195.6	5.68 144.3	$\frac{3}{4}$ 19.1	$\frac{3}{4}$ -10 UNC-2B	492 223.2
UB12PA	12	12.75 323.9	14.25 362.0	1.65 41.9	8.7 221.0	6.68 169.7	$\frac{3}{4}$ 19.1	$\frac{3}{4}$ -10 UNC-2B	563 255.4

J1205 thru J1280, J1205 N thru J 1280 N (Plastic Coated)

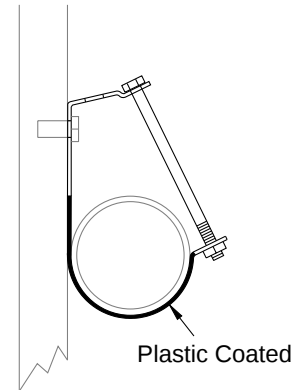
"J" Conduit & Pipe Hanger



NOTE: Maximum operating temperature is 300°F (148.8°C)



Hanger Rod Suspended



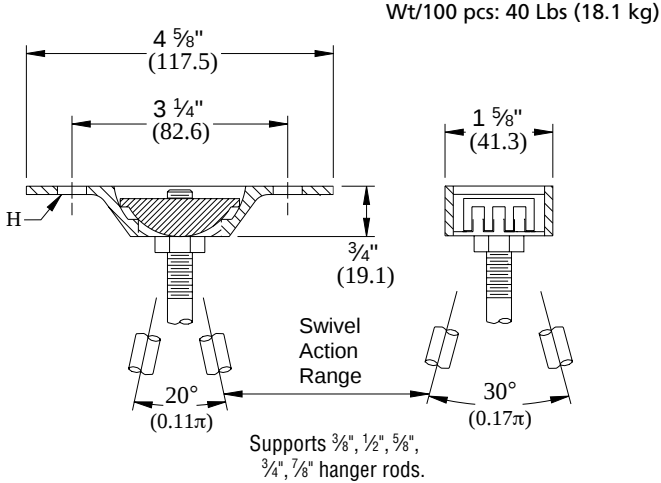
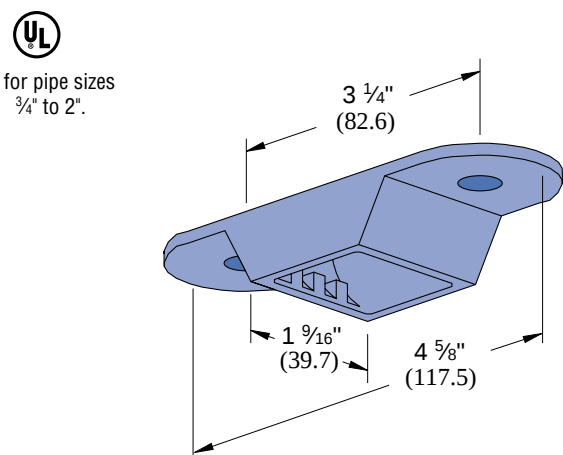
"T" Bolt and Nut Included

Part Number	Wt/100 pcs Lbs (kg)	Part Number	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 (kg)
J1205	20 9.1	J1205N	21 9.5	1/2	3/8 9.5	2 5/8 66.7	1 25.4	2 50.8	1 3/32 10.3	1/4 x 2 1/4 6.4 x 57.2	400 181
J1207	21 9.5	J1207N	22 10.0	3/4	3/8 9.5	2 7/8 73.0	1 25.4	2 1/4 57.2	1 3/32 10.3	1/4 x 2 1/4 6.4 x 57.2	400 181
J1210	24 10.9	J1210N*	25 11.3	1	3/8 9.5	3 76.2	1 25.4	2 3/8 60.3	1 3/32 10.3	1/4 x 2 1/2 6.4 x 63.5	400 181
J1212	27 12.2	J1212N	29 13.2	1 1/4	3/8 9.5	3 1/4 82.6	1 25.4	2 1/2 63.5	1 3/32 10.3	1/4 x 2 3/4 6.4 x 69.9	400 181
J1215	29 13.2	J1215N*	31 14.1	1 1/2	3/8 9.5	3 1/2 88.9	1 25.4	2 5/8 66.7	1 3/32 10.3	1/4 x 3 6.4 x 76.2	400 181
J1220	33 15.0	J1220N*	35 15.9	2	3/8 9.5	3 3/4 95.3	1 1/8 28.6	2 5/8 66.7	1 3/32 10.3	1/4 x 3 1/2 6.4 x 88.9	400 181
J1225	71 32.2	J1225N	74 33.6	2 1/2	1/2 12.7	4 3/8 111.1	1 1/8 28.6	3 5/8 92.1	9/16 14.3	3/8 x 4 1/2 9.5 x 114.3	800 363
J1230	78 35.4	J1230N*	81 36.7	3	1/2 12.7	4 7/8 123.8	1 1/8 28.6	4 101.6	9/16 14.3	3/8 x 5 9.5 x 127.0	800 363
J1235	85 38.6	J1235N	88 39.9	3 1/2	1/2 12.7	5 1/8 127.1	1 1/8 28.6	4 1/4 108.0	9/16 14.3	3/8 x 6 9.5 x 152.4	800 363
J1240	178 80.7	J1240N*	182 82.6	4	5/8 15.9	6 1/8 155.6	1 1/8 28.6	5 1/8 130.2	9/16 14.3	3/8 x 6 9.5 x 152.4	800 363
J1250	199 90.3	J1250N	203 92.1	5	5/8 15.9	6 3/4 171.5	1 1/8 28.6	5 3/4 146.1	9/16 14.3	3/8 x 7 1/2 9.5 x 190.5	800 363
J1260	231 104.8	J1260N*	236 107.0	6	3/4 19.1	7 3/4 196.9	1 1/4 31.8	6 1/2 165.1	9/16 14.3	3/8 x 8 1/2 9.5 x 215.9	1,000 454
J1280	449 203.7	J1280N	458 207.7	8	7/8 22.2	9 1/4 235.0	1 1/4 31.8	8 203.2	9/16 14.3	3/8 x 10 9.5 x 254.0	1,200 544

*Standard glass drainline and glass process pipe sizes.
Minimum safety factor of five (5) on ultimate load.

M30 & M31

Swivel Ceiling Flanges

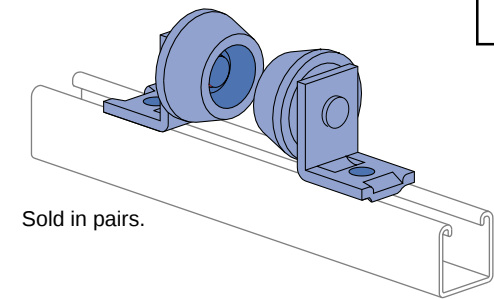


Note: Concrete Insert Section for M26 swivel nuts
Material: Malleable Iron.
Patent No. 2953874.

Part Number	Mounting Bolt Size	Hole "H" In (mm)	Wt/100 pcs Lbs (kg)	Design Load Lbs (kg)
M30	3/8	7/16 11.1	40 18.1	1,220 553.4
M31	1/2	9/16 14.3	40 18.1	1,450 657.7

P2474

Pipe Roller for 1/2" - 4" Pipe



Requires 2 each 1/2" x 15/16" bolts and 1/2" channel nuts per assembly.
Sold separately.

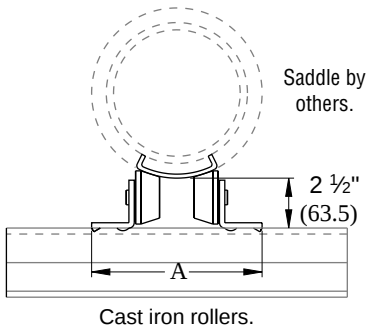


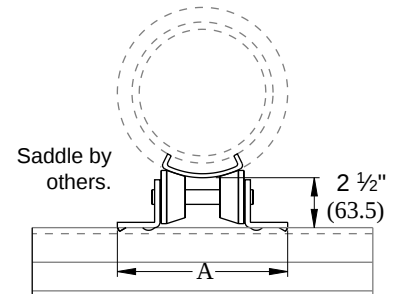
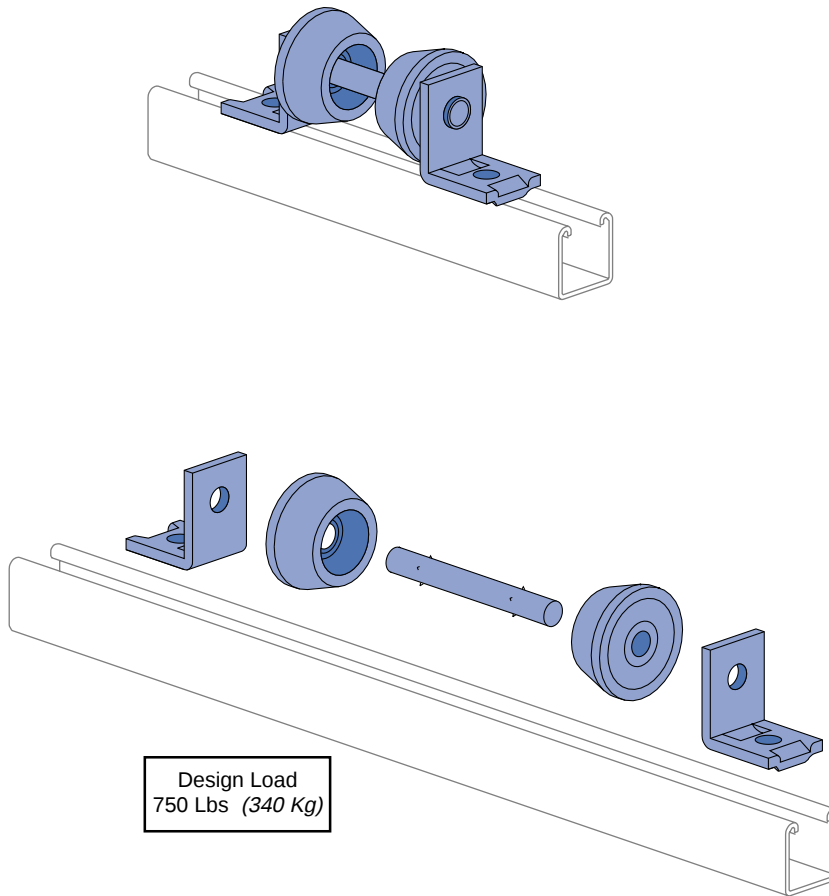
Chart for Dimension A

Pipe Size In	Insulation Thickness						
	No Insulation In (mm)	1" In (mm)	1 1/2" In (mm)	2" In (mm)	2 1/2" In (mm)	3" In (mm)	4" In (mm)
1/2	6 1/2 165.1	6 1/2 165.1					
3/4	6 1/2 165.1	6 1/2 165.1	6 5/8 168.3	6 7/8 174.6			
1	6 1/2 165.1	6 1/2 165.1	6 5/8 168.3	6 7/8 174.6			
1 1/4	6 1/2 165.1	6 1/2 165.1	6 7/8 174.6	7 1/8 181.0	7 3/8 187.3		
1 1/2	6 1/2 165.1	6 1/2 165.1	6 7/8 174.6	7 1/8 181.0	7 3/8 187.3		
2	6 1/2 165.1	6 5/8 168.3	7 1/8 181.0	7 3/8 187.3	7 1/2 190.5	8 203.2	
2 1/2	6 1/2 165.1	6 5/8 168.3	7 1/8 181.0	7 3/8 187.3	7 1/2 190.5	8 203.2	
3	6 1/2 165.1	7 177.8	7 1/2 190.5	7 3/4 196.9	7 7/8 200.0	8 1/2 206.4	
3 1/2	6 1/2 165.1	7 177.8	7 1/2 190.5	7 3/4 196.9	7 7/8 200.0	8 1/2 206.4	
4	6 5/8 168.3	7 1/4 184.2	7 5/8 193.7	7 7/8 200.0	8 203.2	8 3/4 212.7	9 228.6

Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)	
Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6 mm); Hole Spacing - On Center: 1 7/8" (47.6 mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6.4mm)	

P2474-1 thru P2474-4

Pipe Roller for 1" - 8" Pipe



- Pipe roller will fit standard saddles.
- Select proper roller from chart.
- Requires 2 each 1/2" x 15/16" bolts and 1/2" channel nuts per assembly. Sold separately.

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 5/8 242.9	319 144.7

Parts are shipped loose and are easily assembled during installation.

Chart for Roller Part Number Selection

Pipe Size In	Insulation Thickness						
	No Insulation	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

Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); **Hole Spacing - From End:** 13/16" (20.6 mm); **Hole Spacing - On Center:** 1 7/8" (47.6 mm); **Width:** 1 5/8" (41mm); **Thickness:** 1/4" (6.4mm)

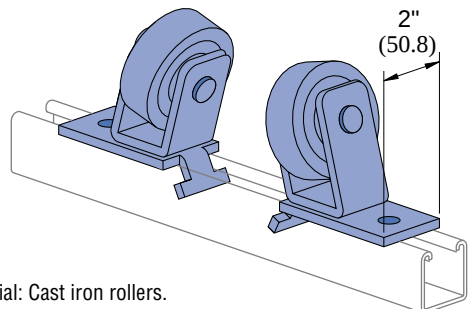


P2475

Pipe Roller for 6" - 16" Pipe

Wt/100 pcs: 680 Lbs (308.4 kg)

Sold in pairs.



Material: Cast iron rollers.

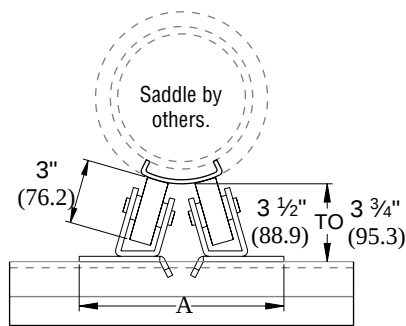
- Requires 2 each $\frac{1}{2}$ " x $\frac{15}{16}$ " bolts and $\frac{1}{2}$ " channel nuts per assembly. Sold separately.

Design Load
1500 Lbs (680 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)
6	9½ 241.3	10¼ 260.4	10½ 266.7	10¾ 273.1	11 279.4	11½ 288.9	11¾ 301.6
8	10½ 257.2	*	11 279.4	11½ 288.9	11¾ 298.5	12 304.8	12½ 317.5
10	10¾ 273.1	*	11½ 295.3	12 304.8	12¼ 311.2	12½ 317.5	13 330.2
12	11¼ 285.8	*	12½ 308.0	12½ 317.5	12¾ 323.9	13 330.2	13½ 342.9
14	11½ 295.3	*	12½ 317.5	12¾ 327.0	13 330.2	13¾ 339.7	14 355.6
16	12½ 308.0	*	13 330.2	13½ 339.7	13¾ 352.4	14 355.6	14½ 368.3

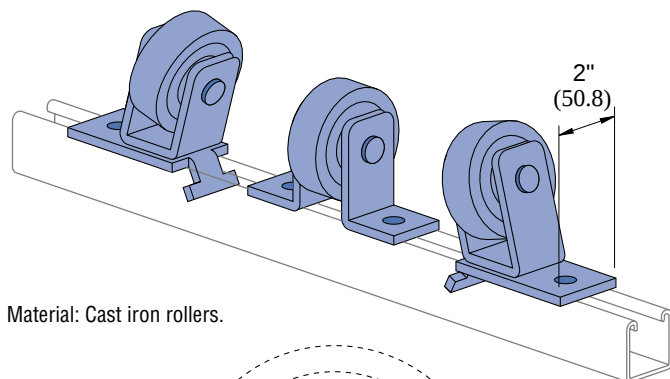
(*Not used for this size)



P2476

Pipe Roller for 16" - 24" Pipe

Wt/100 pcs: 1046 Lbs (474.5 kg)



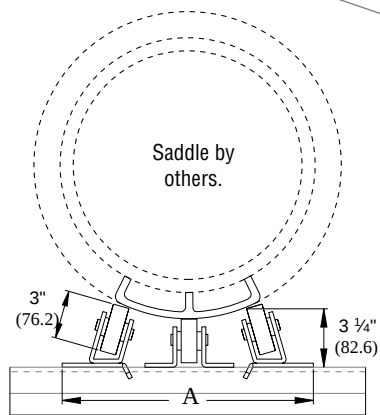
Material: Cast iron rollers.

- Requires 4 each $\frac{1}{2}$ " x $\frac{15}{16}$ " bolts and $\frac{1}{2}$ " channel nuts per assembly. Sold separately.

Design Load
2000 Lbs (907 kg)

Chart for Dimension A

Pipe Size In	Insulation Thickness				
	1½" In (mm)	2" In (mm)	2½" In (mm)	3" In (mm)	4" In (mm)
16			13¾ 352.4	14 355.6	14½ 368.3
18	13¾ 346.1	14 355.6	14½ 358.8	14½ 368.3	15 381.0
20	14½ 358.8	14½ 368.3	14¾ 374.7	15 381.0	15½ 393.7
24	15¼ 387.4	15½ 393.7	15¾ 403.2	16¾ 409.6	16¾ 422.3

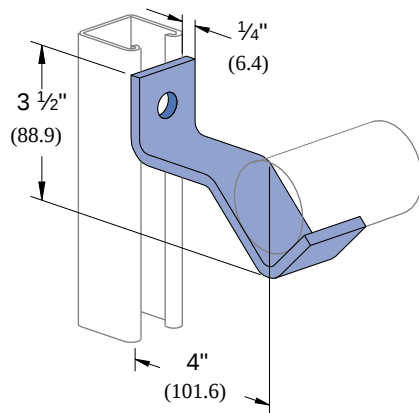


Standard Dimensions for 1½" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: $\frac{9}{16}$ " (14.3mm); Hole Spacing - From End: $\frac{13}{16}$ " (20.6 mm); Hole Spacing - On Center: $1\frac{1}{8}$ " (47.6 mm); Width: 1½"(41mm); Thickness: $\frac{1}{4}$ " (6.4mm)

P2481

Pipe Support Bracket

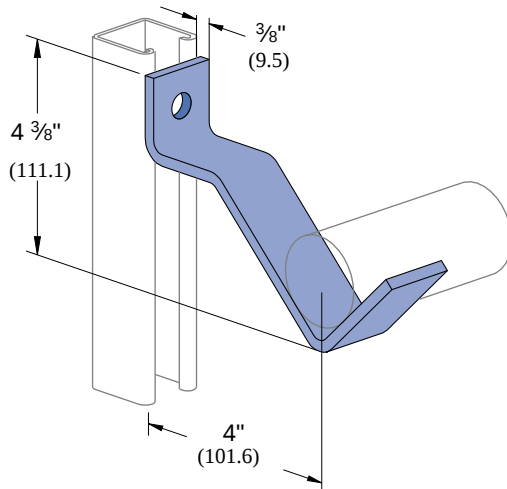


For 1/2" pipe to 1 1/2" pipe.
Design Load (Channel Upright Listed)

Wt/100 pcs Lbs (kg)	P1000 Lbs (kg)	P1100 Lbs (kg)	P2000 Lbs (kg)
90 40.8	85 38.6	85 38.6	85 38.6

P2482

Pipe Support Bracket



For 2" pipe to 3" pipe.
Design Load (Channel Upright Listed)

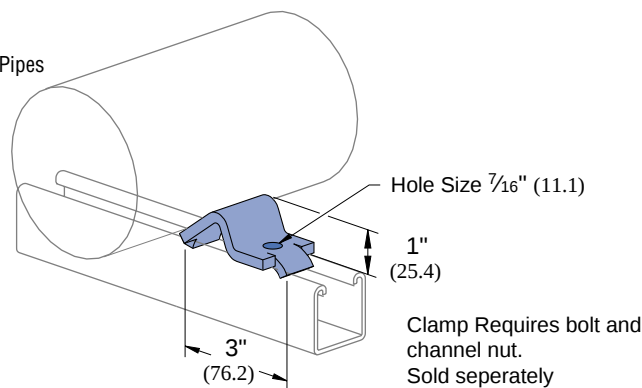
Wt/100 pcs Lbs (kg)	P1000 Lbs (kg)	P1100 Lbs (kg)	P2000 Lbs (kg)
139 63.0	185 83.9	120 54.4	95 43.1

P2243

Pipe Block

Wt/100 pcs: 40 Lbs (18.1 kg)

For 2" (50.8) to 8" (203.2) Pipes



Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6 mm); Hole Spacing - On Center: 1 7/8" (47.6 mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6.4mm)



Nominal Pipe Dia.		Centerline to Centerline (In/mm)																	
		¾" (19mm)			1" (25mm)			1¼" (32mm)			1½" (38mm)			2" (51mm)			2½" (64mm)		
		T	S		T	F	S	T	F	S	T	F	S	T	F	S	T	F	S
¾" 19mm	T	4¾ 121	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	S	4½ 114	4¾ 108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1" 25mm	T	5 127	4¾ 121	5¼ 133	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	F	6 152	5¾ 146	6¼ 159	7¼ 184	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	S	4¾ 121	4½ 114	5 127	6 152	4½ 114	—	—	—	—	—	—	—	—	—	—	—	—	—
1¼" 32mm	T	5½ 133	5 127	5½ 140	6½ 165	5 127	5½ 140	—	—	—	—	—	—	—	—	—	—	—	—
	F	6¼ 159	6 152	6½ 165	7½ 191	6¼ 159	7¼ 197	—	—	—	—	—	—	—	—	—	—	—	—
	S	4¾ 121	4½ 114	5 127	6 152	4½ 114	5¼ 133	6¼ 159	4¾ 121	—	—	—	—	—	—	—	—	—	—
1½" 38mm	T	5½ 133	5 127	5½ 140	6½ 165	5¼ 133	5½ 146	6¼ 171	5¼ 133	5¾ 146	—	—	—	—	—	—	—	—	—
	F	6½ 165	6¼ 159	6¾ 171	7¾ 197	6¼ 159	8 203	6½ 165	7 178	8 203	—	—	—	—	—	—	—	—	—
	S	5 127	4¾ 121	5¼ 133	6¼ 159	4¾ 121	5½ 133	6 152	5 127	5½ 140	6½ 165	5 127	—	—	—	—	—	—	—
2" 51mm	T	5¾ 146	5½ 140	6 152	7 178	5½ 140	6 152	7¼ 184	5¾ 146	6¼ 159	7¼ 184	5¾ 146	6½ 165	—	—	—	—	—	—
	F	7 178	6¾ 171	7¼ 184	8¼ 210	6¾ 171	8 216	7 178	7½ 191	8½ 216	7 178	7¾ 197	9 229	—	—	—	—	—	—
	S	5¼ 133	5 127	5½ 140	6½ 165	5 127	5½ 140	6¾ 171	5¼ 133	5¾ 146	6¾ 171	5¼ 133	6 152	7¼ 184	5½ 140	—	—	—	—
2½" 64mm	T	6 152	5¾ 146	6¼ 159	7¼ 184	6 152	6½ 165	7½ 191	6 152	6½ 165	7¾ 197	6¼ 159	7 178	8¼ 210	6½ 165	7¼ 184	—	—	—
	F	7½ 191	7¼ 184	7¾ 197	8¾ 222	7¼ 184	9 229	7½ 191	8 203	9 229	7½ 191	8¼ 210	9½ 241	7¾ 197	8¾ 222	10 254	—	—	—
	S	5½ 140	5¼ 133	5¾ 146	6¾ 171	5¼ 133	5½ 140	6 152	6 152	7 178	5½ 140	6¼ 159	7½ 191	5¾ 146	6¾ 171	8 203	6 152	—	—
3" 76mm	T	6¼ 159	6 152	6½ 165	7½ 191	6¼ 159	6¾ 171	7¼ 184	6¾ 171	7¼ 184	6¾ 171	7¼ 184	8¼ 210	7¼ 184	8¼ 210	7½ 191	9 229	8¼ 210	7 178
	F	7¾ 197	7½ 191	8 203	9 229	7½ 191	8 203	9¼ 235	7¾ 197	8¼ 210	7¾ 197	8¼ 210	9¼ 235	8½ 216	9¼ 235	10¼ 260	8¼ 210	8 203	7 178
	S	5¾ 146	5½ 140	6 152	7 178	5½ 140	6 152	7¼ 184	5¾ 146	6¼ 159	7¼ 184	5¾ 146	6½ 165	7¾ 197	6 152	7 178	8¼ 210	6¼ 159	5 127
4" 102mm	T	7½ 191	7¼ 184	7¾ 197	8¾ 222	7¼ 184	9 229	7½ 191	8 203	9 229	7½ 191	8¼ 210	9¼ 235	8¼ 210	9¼ 235	10¼ 260	8¾ 222	10 254	8 203
	F	9 229	8¾ 222	9¼ 235	10¼ 260	8¾ 222	9¼ 235	10½ 267	9 229	9½ 241	10½ 267	9 229	9¾ 248	11 279	9¼ 235	10¼ 260	11½ 292	9½ 241	8 203
	S	6¾ 171	6½ 165	7 178	8 203	6½ 165	7 178	8¼ 210	6¾ 171	7¼ 184	8¼ 210	6¾ 171	7½ 191	8¼ 210	7 178	8 203	9¼ 235	7¼ 184	6 152
5" 127mm	T	8 203	7¾ 197	8¼ 210	9¼ 235	7¾ 197	8¼ 210	9½ 241	8 203	8½ 216	9½ 241	8 203	8¾ 222	10 254	8¼ 210	9¼ 235	10½ 267	8½ 216	7 178
	F	9½ 241	9¼ 235	9¾ 248	10¾ 273	9¼ 235	9¾ 248	11 279	9½ 241	10 254	11 279	9½ 241	10¼ 260	11½ 292	9¾ 248	10¾ 273	12 305	10 254	8 203
	S	7¼ 184	7 178	7½ 191	8¼ 210	7 178	7½ 191	8¾ 222	7¼ 184	8¼ 210	9¼ 235	7¼ 184	8 203	9¼ 235	7½ 191	8¼ 210	9¼ 235	7¾ 197	6 152
6" 152mm	T	8¾ 222	8½ 216	9 229	10 254	8½ 216	9 229	10¼ 260	8¾ 222	9¼ 235	10¼ 260	8¾ 222	9½ 241	10¾ 273	9 229	10¼ 260	11¼ 286	9¼ 235	8 203
	F	10 254	9¾ 248	10¼ 260	11¼ 286	9¾ 248	10¼ 260	11½ 292	10 254	10½ 267	11½ 292	10 254	10¾ 273	12 305	10¼ 260	11¼ 286	12½ 318	10½ 267	9 229
	S	7¾ 197	7½ 191	8 203	9 229	7½ 191	8 203	9¼ 235	7¾ 197	8¼ 210	9¼ 235	7¾ 197	8½ 216	9¼ 235	8 203	9¼ 235	10¼ 260	8¼ 210	7 178
8" 203mm	T	8¾ 222	9½ 241	10 254	11 279	9¾ 248	10½ 267	11¼ 286	9¾ 248	10¼ 260	11½ 292	10¼ 260	11½ 292	12 305	10¾ 273	11½ 292	12½ 318	10½ 267	9 229
	F	11¼ 286	11 279	11½ 292	12½ 318	11 279	11½ 292	12¾ 324	11¼ 286	11¾ 298	12¾ 324	11¼ 286	12 305	13¾ 337	11½ 292	12½ 318	13¾ 349	11¼ 286	10 254
	S	11¼ 286	11 279	11½ 292	12½ 318	11 279	11½ 292	12¾ 324	11¼ 286	11¾ 298	12¾ 324	11¼ 286	12 305	13¾ 337	11½ 292	12½ 318	13¾ 349	11¼ 286	10 254
10" 254mm	T	11¼ 286	11 279	11½ 292	12½ 318	11 279	11½ 292	12¾ 324	11¼ 286	11¾ 298	12¾ 324	11¼ 286	12 305	13¾ 337	11½ 292	12½ 318	13¾ 349	11¼ 286	10 254
	F	12½ 318	12¼ 311	12¾ 324	13¾ 349	12¼ 311	12¾ 324	14 356	12½ 318	13 330	14 356	12½ 318	13¾ 337	14½ 368	12¾ 324	13¾ 349	15 381	13 330	11 279
	S	12¼ 311	12 305	12½ 318	13½ 343	12 305	12½ 318	13¾ 349	12¼ 311	13¼ 324	14½ 356	12¼ 311	13 330	14¼ 362	12½ 318	13½ 343	14¾ 375	12¼ 311	11 279
12" 305mm	T	12¼ 311	12 305	12½ 318	13½ 343	12 305	12½ 318	13¾ 349	12¼ 311	13¼ 324	14½ 356	12¼ 311	13 330	14¼ 362	12½ 318	13½ 343	14¾ 375	12¼ 311	11 279
	F	14 356	13¾ 349	14¼ 362	15¼ 387	13¾ 349	14¼ 362	15½ 394	14 356	14½ 368	15½ 394	14 356	14¾ 375	16 406	14¼ 362	15¼ 387	16½ 419	14½ 368	13 330
	S	14 356	13¾ 349	14¼ 362	15¼ 387	13¾ 349	14¼ 362	15½ 394	14 356	14½ 368	15½ 394	14 356	14¾ 375	16 406	14¼ 362	15¼ 387	16½ 419	14½ 368	13 330

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 ¼" were increased to the next larger ¼".
- Clear space between fittings as follows:
 1. 1" between piping 3" and smaller.
 2. 1½" 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" (76mm)			4" (102mm)			5" (127mm)			6" (152mm)			8" (203mm)			10" (254mm)			12" (305mm)			Nominal Pipe Dia.
T	F	S	T	F	S	T	F	S	T	F	S	T	F	S	T	F	T	F	T	F	
7¼ 197	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	T 3" 76mm
9¼ 235	10½ 267	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	F
7¼ 184	8½ 216	6½ 165	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	S
9 229	10¼ 260	8¼ 210	10 254	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	T 4" 102mm
10½ 267	11¼ 298	9¼ 248	11½ 292	13 330	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	F
8¼ 210	9½ 241	7½ 191	9¼ 235	10¼ 273	8½ 216	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	S
9½ 241	10¼ 273	8¾ 222	10¼ 260	12 305	9¼ 248	11 279	—	—	—	—	—	—	—	—	—	—	—	—	—	—	T 5" 127mm
11 279	12¼ 311	10¼ 260	12 305	13½ 343	11¼ 286	12½ 318	14 356	—	—	—	—	—	—	—	—	—	—	—	—	—	F
8¼ 222	10 254	8 203	9¾ 248	11¼ 286	9 229	10¼ 260	11¾ 298	9½ 241	—	—	—	—	—	—	—	—	—	—	—	—	S
10¼ 260	11½ 292	9½ 241	11¼ 286	12¾ 324	10½ 267	11¾ 298	13¼ 337	11 279	12½ 318	—	—	—	—	—	—	—	—	—	—	—	T 6" 152mm
11½ 292	12¼ 311	10¾ 273	12½ 318	14 356	11¾ 298	13 330	14½ 368	12¼ 311	13¾ 337	15 381	—	—	—	—	—	—	—	—	—	—	F
9¼ 235	10½ 267	8½ 216	10¼ 260	11¾ 298	9½ 241	10¾ 273	12¼ 311	10 254	11½ 292	12¾ 324	10½ 267	—	—	—	—	—	—	—	—	—	S
11¼ 286	12¾ 324	10¾ 273	12½ 318	14 356	11¾ 298	13 330	14½ 368	12¼ 311	13¾ 349	15 381	12¾ 324	14¾ 375	—	—	—	—	—	—	—	—	T 8" 203mm
12¾ 324	14 356	12 305	13¾ 349	15¼ 387	13 330	14¼ 362	15¾ 400	13½ 343	15 381	16¼ 413	14 356	16¼ 413	17.5 445	—	—	—	—	—	—	—	F
12¾ 324	14 356	12 305	13¾ 349	15¼ 387	13 330	14¼ 362	15¾ 400	13½ 343	15 381	16¼ 413	14 356	16¼ 413	17½ 445	17½ 445	—	—	—	—	—	—	T 10" 254mm
14 356	15¼ 387	13¾ 337	15 381	16½ 419	14¼ 362	15½ 394	17 432	14¾ 375	16¼ 413	17½ 445	15¼ 387	17½ 445	18¾ 476	18¾ 476	20 508	—	—	—	—	—	F
13¾ 349	15 381	13 330	14¾ 375	16¼ 413	13 356	15¼ 387	16¾ 425	14½ 368	16 406	17¼ 438	15 381	17¼ 438	18½ 470	18½ 470	19¾ 502	19½ 495	—	—	—	—	T 12" 305mm
15½ 394	16¾ 425	14¾ 375	16½ 419	18 457	15¾ 400	17 432	18¼ 464	16¼ 413	17¾ 451	19 483	16¾ 425	19 483	20¼ 514	20¼ 514	21½ 546	21¼ 540	29 737	—	—	—	F

Channel Selection for Schedule 10 Sprinkler Pipe Trapeze Hangers

Note: Based on NFPA-13-1996 Section Modulus Table 3-10.1.7(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 "—" 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.

Nominal Pipe Dia. (in)	SCHEDULE 10 PIPE					Total Weight (p/f)
	O.D. (in)	Wall Thickness (in)	I. D. (in)	Pipe Weight (p/f)	Water Weight (p/f)	
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	0.09	0.09	0.09	0.10	0.11	0.12	0.13	0.15	0.18	0.24	0.32
2' - 0"	0.11	0.12	0.12	0.13	0.13	0.15	0.16	0.17	0.20	0.24	0.32	0.43
2' - 6"	0.14	0.14	0.15	0.16	0.17	0.18	0.20	0.21	0.25	0.30	0.40	0.54
3' - 0"	0.17	0.17	0.18	0.19	0.20	0.22	0.24	0.26	0.31	0.36	0.48	0.65
4' - 0"	0.22	0.23	0.24	0.25	0.27	0.29	0.32	0.34	0.41	0.48	0.64	0.87
5' - 0"	0.28	0.29	0.30	0.31	0.34	0.37	0.40	0.43	0.51	0.59	0.80	1.08
6' - 0"	0.33	0.35	0.36	0.38	0.41	0.44	0.48	0.51	0.61	0.71	0.97	1.30
7' - 0"	0.39	0.40	0.41	0.44	0.47	0.52	0.55	0.60	0.71	0.83	1.13	1.52
8' - 0"	0.44	0.46	0.47	0.50	0.54	0.59	0.63	0.68	0.81	0.95	1.29	1.73
9' - 0"	0.50	0.52	0.53	0.56	0.61	0.66	0.71	0.77	0.92	1.07	1.45	1.95
10' - 0"	0.56	0.58	0.59	0.63	0.68	0.74	0.79	0.85	1.02	1.19	1.61	2.17

Values taken from NFPA 13 (1994 Edition), Table 2-6.1.5(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	P1000	P1000	P5500	P5500	P5500	P5000	P5000
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	P5000	P5000	P5000	P5000	P5000	P5000	P5000	N/A	N/A	N/A	N/A
8' - 0"	P5000	P5000	P5000	P5000	P5000	P5000	N/A	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	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 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	P1001
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	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	N/A
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	N/A	N/A
10' - 0"	P1001	P5501	P5501	P5501	P5501	P5501	P5501	P5501	P5001	P5001	N/A	N/A

Channel Selection for Schedule 40 Sprinkler Pipe Trapeze Hangers

Note: Based on NFPA-13-1996 Section Modulus Table 3-10.1.7(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 "—" 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.

Nominal Pipe Dia. (in)	O.D. (in)	SCHEDULE 40 PIPE				
		Wall Thickness (in)	I. D. (in)	Pipe Weight (p/f)	Water Weight (p/f)	Total Weight (p/f)
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	0.10	0.11	0.12	0.13	0.15	0.18	0.22	0.30	0.41
2' - 0"	0.11	0.12	0.12	0.13	0.15	0.16	0.18	0.20	0.24	0.29	0.40	0.55
2' - 6"	0.14	0.15	0.15	0.16	0.18	0.21	0.22	0.25	0.30	0.36	0.50	0.68
3' - 0"	0.17	0.18	0.18	0.20	0.22	0.25	0.27	0.30	0.36	0.43	0.60	0.82
4' - 0"	0.22	0.24	0.24	0.26	0.29	0.33	0.36	0.40	0.48	0.58	0.80	1.09
5' - 0"	0.28	0.29	0.30	0.33	0.37	0.41	0.45	0.49	0.60	0.72	1.00	1.37
6' - 0"	0.34	0.35	0.36	0.39	0.44	0.49	0.54	0.59	0.72	0.87	1.20	1.64
7' - 0"	0.39	0.41	0.43	0.46	0.51	0.58	0.63	0.69	0.84	1.01	1.41	1.92
8' - 0"	0.45	0.47	0.49	0.52	0.59	0.66	0.72	0.79	0.96	1.16	1.61	2.19
9' - 0"	0.50	0.53	0.55	0.59	0.66	0.74	0.81	0.89	1.08	1.30	1.81	2.46
10' - 0"	0.56	0.59	0.61	0.65	0.74	0.82	0.90	0.99	1.20	1.44	2.01	2.74

Values taken from NFPA 13 (1994 Edition), Table 2-6.1.5(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	P5500	P5500	P5500	P5500	P5500	P5000	N/A
3' - 0"	P1000	P1000	P1000	P1000	P5500	P5500	P5500	P5500	P5500	P5000	P5000	N/A
4' - 0"	P5500	P5500	P5500	P5500	P5500	P5500	P5500	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	N/A	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	P1001	P5501
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	N/A
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	N/A	N/A
10' - 0"	P1001	P5501	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 14.7	0.497 12.6	0.23 0.34
1/2	0.706 17.9	0.626 15.9	0.29 0.43
3/4	0.922 23.4	0.830 21.1	0.44 0.65
1	1.163 29.5	1.055 26.8	0.64 0.95
1 1/4	1.510 38.4	1.388 35.3	0.95 1.41
1 1/2	1.740 44.2	1.618 41.1	1.10 1.64
2	2.197 55.8	2.075 52.7	1.40 2.08
2 1/2	2.875 73.0	2.731 69.4	2.30 3.42
3	3.500 88.9	3.356 85.2	2.70 4.02
3 1/2	4.000 101.6	3.834 97.4	3.40 5.06
4	4.500 114.3	4.334 110.1	4.00 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 20.7	0.745 18.9	0.60 0.89	0.12 0.18
3/4	1.029 26.1	0.954 24.2	0.82 1.22	1.13 1.68
1	1.290 32.8	1.205 30.6	1.16 1.73	1.82 2.71
1 1/4	1.638 41.6	1.553 39.4	1.50 2.23	2.67 3.97
1 1/2	1.883 47.8	1.793 45.5	1.82 2.71	3.42 5.09
2	2.360 59.9	2.266 57.6	2.42 3.60	5.04 7.50
2 1/2	2.857 72.6	2.727 69.3	4.01 5.97	7.75 11.53
3	3.476 88.3	3.346 85.0	4.43 6.59	10.69 15.91
3 1/2	3.971 100.9	3.841 97.6	5.73 8.53	13.46 20.03
4	4.466 113.4	4.336 110.1	6.38 9.49	16.37 24.36

Copper Tube (Type L)

Nom. Tube Size	O.D. Tubing In (mm)	O.D. In (mm)	Wall Thick. In (mm)	Wt./Ft. Lbs (kg)	Wt. Water/Ft Lbs (kg)
1/4"	3/8 10	0.375 9.5	0.030 0.8	0.126 3.2	0.034 0.9
3/8"	1/2 13	0.500 12.7	0.035 0.9	0.198 5.0	0.062 1.6
1/2"	5/8 16	0.625 15.9	0.040 1.0	0.285 7.2	0.100 2.5
5/8"	3/4 19	0.750 19.1	0.042 1.1	0.362 9.2	0.151 3.8
3/4"	7/8 22	0.875 22.2	0.045 1.1	0.455 11.6	0.209 5.3
1"	1 1/8 29	1.125 28.6	0.050 1.3	0.655 16.6	0.357 9.1
1 1/4"	1 1/4 35	1.375 34.9	0.055 1.4	0.884 22.5	0.546 13.9
1 1/2"	1 5/8 41	1.625 41.3	0.060 1.5	1.140 29.0	0.767 19.5
2"	2 1/8 54	2.125 54.0	0.070 1.8	1.750 44.5	1.341 34.1
2 1/2"	2 5/8 67	2.625 66.7	0.080 2.0	2.480 63.0	2.064 52.4
3"	3 1/8 79	3.125 79.4	0.090 2.3	3.330 84.6	2.949 74.9
3 1/2"	3 5/8 92	3.625 92.1	0.100 2.5	4.290 109.0	3.989 101.3
4"	4 1/8 105	4.125 104.8	0.110 2.8	5.380 136.7	5.188 131.8
5"	5 1/8 130	5.125 130.2	0.125 3.2	7.610 193.3	8.081 205.3
6"	6 1/8 156	6.125 155.6	0.140 3.6	10.200 259.1	11.616 295.0
8"	8 1/8 206	8.125 206.4	0.200 5.1	19.290 490.0	20.289 515.3
10"	10 1/8 257	10.125 257.2	0.250 6.4	30.100 764.5	31.590 802.4
12"	12 1/8 308	12.125 308.0	0.280 7.1	40.400 1,026.2	45.426 1,153.8

Copper Tube (Type K)

Nom. Tube Size	O.D. Tubing In (mm)	O.D. In (mm)	Wall Thick. In (mm)	Wt./Ft. Lbs (kg)	Wt. Water/Ft Lbs (kg)
1/4"	3/8 10	0.375 9.53	0.035 0.89	0.145 3.68	0.032 0.81
3/8"	1/2 13	0.500 12.70	0.005 0.13	0.269 6.83	0.055 1.40
1/2"	5/8 16	0.625 15.88	0.049 1.24	0.344 8.74	0.094 2.39
5/8"	3/4 19	0.750 19.05	0.049 1.24	0.418 10.62	0.144 3.66
3/4"	7/8 22	0.875 22.23	0.065 1.65	0.641 16.28	0.188 4.78
1"	1 1/8 29	1.125 28.58	0.065 1.65	0.839 21.31	0.337 8.56
1 1/4"	1 1/4 35	1.375 34.93	0.065 1.65	1.040 26.42	0.527 13.39
1 1/2"	1 5/8 41	1.625 41.28	0.072 1.83	1.360 34.54	0.743 18.87
2"	2 1/8 54	2.125 53.98	0.083 2.11	2.060 52.32	1.310 33.27
2 1/2"	2 5/8 67	2.625 66.68	0.095 2.41	2.920 74.17	2.000 50.80
3"	3 1/8 79	3.125 79.38	0.109 2.77	4.000 101.60	2.960 75.18
3 1/2"	3 5/8 92	3.625 92.08	0.120 3.05	5.120 130.05	3.900 99.06
4"	4 1/8 105	4.125 104.78	0.134 3.40	6.510 165.35	5.060 128.52
5"	5 1/8 130	5.125 130.18	0.160 4.06	9.670 245.62	8.000 203.20
6"	6 1/8 156	6.125 155.58	0.192 4.88	13.870 352.30	11.200 284.48
8"	8 1/8 206	8.125 206.38	0.271 6.88	25.900 657.86	19.500 495.30
10"	10 1/8 257	10.125 257.18	0.338 8.59	40.300 1,023.62	30.423 772.74
12"	12 1/8 308	12.125 307.98	0.405 10.29	57.800 1,468.12	43.675 1,109.35

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 Lead Covered Lbs/Ft (kg/m)	Not Lead Covered Lbs/Ft (kg/m)
1/2	0.622 15.8	0.840 21.3	1.063 27.0	0.85 1.26	1.20 1.79	1.00 1.49
3/4	0.824 20.9	1.050 26.7	1.297 32.9	1.13 1.68	1.80 2.68	1.40 2.08
1	1.049 26.6	1.315 33.4	1.563 39.7	1.68 2.50	2.60 3.87	2.30 3.42
1 1/4	1.380 35.1	1.660 42.2	1.969 50.0	2.28 3.39	4.30 6.40	3.60 5.36
1 1/2	1.610 40.9	1.900 48.3	2.234 56.7	2.73 4.06	5.90 8.78	4.50 6.70
2	2.067 52.5	2.375 60.3	2.719 69.1	3.68 5.48	8.50 12.65	7.20 10.71
2 1/2	2.469 62.7	2.875 73.0	3.313 84.2	5.82 8.66	11.50 17.11	10.20 15.18
3	3.068 77.9	3.500 88.9	3.938 100.0	7.62 11.34	16.50 24.55	14.50 21.58
3 1/2	3.548 90.1	4.000 101.6	4.438 112.7	9.20 13.69	19.00 28.28	17.50 26.04
4	4.026 102.3	4.500 114.3	4.938 125.4	10.89 16.21	24.80 36.91	21.50 32.00
5	5.047 128.2	5.563 141.3	6.296 159.9	14.81 22.04	35.90 53.43	30.80 45.84
6	6.065 154.1	6.625 168.3	7.358 186.9	19.19 28.56	50.70 75.45	43.40 64.59

* Maximum weight equals weight of rigid conduit plus weight of heaviest conductor combination (from the National Electrical Code Handbook.)

Nominal Pipe Size In	Max. Span Ft (m)	Nominal Pipe Size In	Max. Span Ft (m)
1	7 2.13	8	19 5.79
1 1/2	9 2.74	10	22 6.71
2	10 3.05	12	23 7.01
2 1/2	11 3.35	14	25 7.62
3	12 3.66	16	27 8.23
3 1/2	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 Supports

346-12. Supports. Rigid metal conduit shall be installed as a complete system as provided in Article 300 and shall be securely fastened in place. Conduit shall be firmly fastened within 3 feet (914 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 346-12, provided such supports prevent transmission of stresses to termination where conduit is deflected between supports.

Table 346-12
Support for Rigid Metal Conduit

Conduit Size In (mm)	Maximum Distance Between Supports Ft (m)
1/2-3/4 12.7 - 19.1	10 3.05
1 25.4	12 3.66
1 1/4- 1 1/2 31.8 - 38.1	14 4.27
2- 2 1/2 50.8 - 63.5	16 4.88
3 & larger 76.2 - Larger	20 6.10

Schedule 40: PVC Plastic Pipe

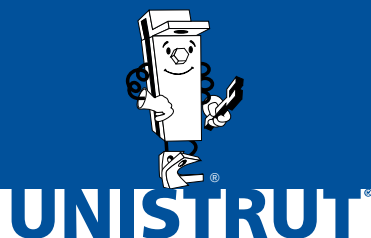
Pipe Size (Nominal) In	Outside Diameter In (mm)	Inside Diameter In (mm)	Pipe Weight Lbs/Ft (kg/m)	Pipe and Water Weight Lbs/Ft (kg/m)
1/4	0.540 13.7	0.354 9.0	0.081 0.12	0.12 0.18
3/8	0.675 17.1	0.483 12.3	0.109 0.16	0.19 0.28
1/2	0.840 21.3	0.608 15.4	0.161 0.24	0.29 0.43
3/4	1.050 26.7	0.810 20.6	0.214 0.32	0.44 0.65
1	1.315 33.4	1.033 26.2	0.315 0.47	0.68 1.01
1 1/4	1.660 42.2	1.364 34.6	0.426 0.63	1.06 1.58
1 1/2	1.900 48.3	1.592 40.4	0.509 0.76	1.37 2.04
2	2.375 60.3	2.049 52.0	0.682 1.01	2.11 3.14
2 1/2	2.875 73.0	2.445 62.1	1.076 1.60	3.11 4.63
3	3.500 88.9	3.042 77.3	1.409 2.10	4.55 6.77
4	4.500 114.3	3.998 101.5	2.006 2.99	7.44 11.07
6	6.625 168.3	6.031 153.2	3.535 5.26	15.90 23.66
8	8.625 219.1	7.943 201.8	5.305 7.89	26.75 39.81
10	10.750 273.1	9.976 253.4	7.532 11.21	41.35 61.54



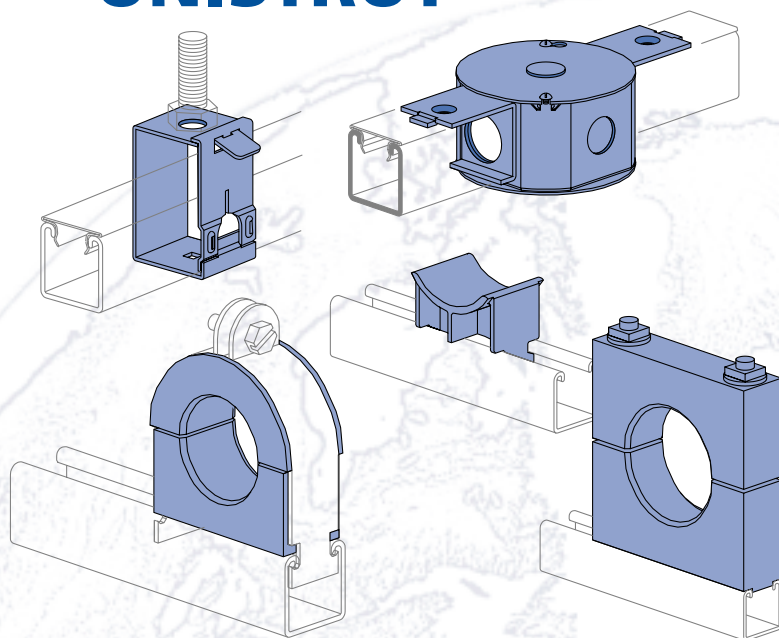
Data for Schedule Steel Pipe

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 0.11	0.27 0.12
	80	0.405 10.3	0.215 5.5	0.31 0.14	0.33 0.15
1/4	40	0.540 13.7	0.364 9.2	0.42 0.19	0.47 0.21
	80	0.540 13.7	0.302 7.7	0.53 0.24	0.57 0.26
3/8	40	0.675 17.1	0.493 12.5	0.57 0.26	0.65 0.29
	80	0.675 17.1	0.423 10.7	0.74 0.33	0.80 0.36
1/2	40	0.840 21.3	0.622 15.8	0.85 0.39	0.98 0.45
	80	0.840 21.3	0.546 13.9	1.09 0.49	1.19 0.54
	160	0.840 21.3	0.464 11.8	1.31 0.59	1.38 0.63
	3/4	1.050 26.7	0.824 20.9	1.13 0.51	1.36 0.62
3/4	40	1.050 26.7	0.742 18.8	1.47 0.67	1.66 0.75
	80	1.050 26.7	0.612 15.5	1.94 0.88	2.07 0.94
	160	1.050 26.7	0.612 15.5	1.94 0.88	2.07 0.94
	1	1.315 33.4	1.049 26.6	1.68 0.76	2.05 0.93
1	80	1.315 33.4	0.957 24.3	2.17 0.98	2.48 1.13
	160	1.315 33.4	0.815 20.7	2.84 1.29	3.07 1.39
	1 1/4	1.660 42.2	1.380 35.1	2.27 1.03	2.92 1.32
1 1/4	40	1.660 42.2	1.278 32.5	2.99 1.36	3.55 1.61
	80	1.660 42.2	1.160 29.5	3.76 1.71	4.22 1.91
	160	1.660 42.2	1.160 29.5	3.76 1.71	4.22 1.91
1 1/2	40	1.900 48.3	1.610 40.9	2.71 1.23	3.60 1.63
	80	1.900 48.3	1.500 38.1	3.63 1.65	4.39 1.99
	160	1.900 48.3	1.338 34.0	4.85 2.20	5.46 2.48
2	40	2.375 60.3	2.067 52.5	3.65 1.66	5.10 2.32
	80	2.375 60.3	1.939 49.3	5.02 2.28	6.30 2.86
	160	2.375 60.3	1.687 42.8	7.45 3.38	8.42 3.82
2 1/2	40	2.875 73.0	2.469 62.7	5.79 2.62	7.86 3.57
	80	2.875 73.0	2.323 59.0	7.65 3.47	9.49 4.30
	160	2.875 73.0	2.125 54.0	10.00 4.54	11.54 5.23
3	40	3.500 88.9	3.068 77.9	7.57 3.43	10.77 4.89
	80	3.500 88.9	2.900 73.7	10.24 4.65	13.11 5.94
	160	3.500 88.9	2.624 66.6	14.31 6.49	16.65 7.55
3 1/2	40	4.000 101.6	3.548 90.1	9.10 4.13	13.39 6.07
	80	4.000 101.6	3.364 85.4	12.49 5.67	16.35 7.41

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 4.89	16.30 7.39
	80	4.500 114.3	3.826 97.2	14.97 6.79	19.95 9.05
	120	4.500 114.3	3.624 92.0	18.98 8.61	23.45 10.64
	160	4.500 114.3	3.438 87.3	22.48 10.20	26.51 12.02
5	40	5.563 141.3	5.047 128.2	14.60 6.62	23.27 10.56
	80	5.563 141.3	4.813 122.2	20.75 9.41	28.64 12.99
	120	5.563 141.3	4.563 115.9	27.01 12.25	34.09 15.46
	160	5.563 141.3	4.313 109.5	32.92 14.93	39.26 17.81
6	40	6.625 168.3	6.065 154.1	18.95 8.60	31.48 14.28
	80	6.625 168.3	5.761 146.3	28.54 12.95	39.84 18.07
	120	6.625 168.3	5.501 139.7	36.35 16.49	46.66 21.16
	160	6.625 168.3	5.187 131.7	45.30 20.55	54.47 24.71
8	20	8.625 219.1	8.125 206.4	22.34 10.13	44.82 20.33
	30	8.625 219.1	8.071 205.0	24.67 11.19	46.85 21.25
	40	8.625 219.1	7.981 202.7	28.52 12.94	50.21 22.78
	60	8.625 219.1	7.813 198.5	35.60 16.15	56.39 25.58
	80	8.625 219.1	7.625 193.7	43.34 19.66	63.14 28.64
	100	8.625 219.1	7.437 188.9	50.89 23.09	69.73 31.63
	120	8.625 219.1	7.187 182.5	60.65 27.51	78.23 35.49
	140	8.625 219.1	7.001 177.8	67.68 30.70	84.37 38.27
	160	8.625 219.1	6.813 173.1	74.61 33.84	90.42 41.01
	10	10.750 273.1	10.250 260.4	28.01 12.70	63.78 28.93
10	30	10.750 273.1	10.136 257.5	34.20 15.51	69.19 31.38
	40	10.750 273.1	10.020 254.5	40.44 18.34	74.63 33.85
	60	10.750 273.1	9.750 247.7	54.68 24.80	87.05 39.48
	80	10.750 273.1	9.562 242.9	64.36 29.19	95.50 43.32
	100	10.750 273.1	9.312 236.5	76.95 34.90	106.47 48.30
	120	10.750 273.1	9.062 230.2	89.20 40.46	117.16 53.14
	140	10.750 273.1	8.750 222.3	104.02 47.18	130.09 59.01
	160	10.750 273.1	8.500 215.9	115.52 52.40	140.13 63.56



ELECTRICAL FITTINGS



Electrical Fittings	163
Porc-A-Clamp™	165
Receptacles	167
Fixture Hangers	168
Accessories and Connectors	169
Junction Boxes	173
In-Channel Joiners	174
Swivel Hangers	175
Cable Entrance Tubing and Accessories	176
Electrical Fittings Technical Data	180

MATERIAL

Unistrut fittings, unless noted, are 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 requirements of ASTM A1011 SS GR 33. The pickling of the steel produces a smooth surface free from scale.

Maple cable saddles, cable clamps and bus bar clamps are made from kiln-dry maple treated with paraffin to a depth of $\frac{1}{16}$ " (1.6mm). Special sizes of clamps can be fabricated upon request. Porcelain cable clamps are made by the dry process and white glazed. 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 352 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 $1\frac{5}{8}$ " wide channel. They are not intended for use with $1\frac{1}{4}$ " or $1\frac{3}{16}$ " 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, Perma-Green II (GR), and plain (PL).

Note: Many Unistrut Metal Framing components, when used with appropriate closures, are UL® listed, and CSA approved.

DESIGN LOAD

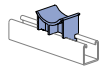
Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

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.



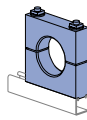
Electrical Fittings



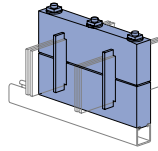
P1753-Pg 163



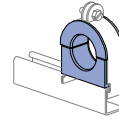
P2649 A-Pg 163



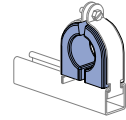
P2645 A-Pg 163



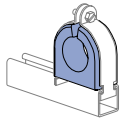
P2647 A-Pg 164



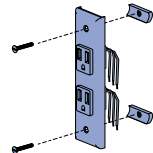
P1690-Pg 164



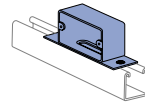
P1787-Pg 165



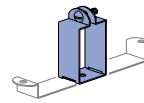
P1787 A-Pg 166



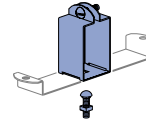
P2557-Pg 167



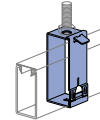
P2567-Pg 167



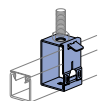
P2537-Pg 168



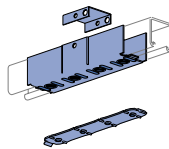
P2539-Pg 168



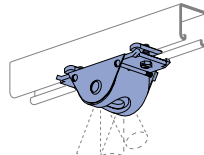
P2755-Pg 168



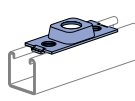
P2855-Pg 168



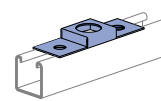
P3922-Pg 169



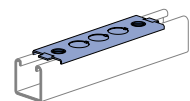
P2534-50-Pg 169



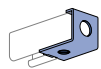
P2535-Pg 170



P2536-Pg 170



P2522-Pg 170



P3521-50-Pg 170



P2521-50-Pg 170



P5521-50-Pg 170



P5021-50-Pg 171



P2521-100-Pg 171



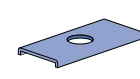
P5021-100-Pg 171



P5521-100-Pg 171



P1180 W-Pg 171



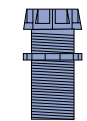
P2541-Pg 172



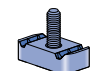
P2552-Pg 172



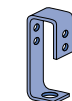
P2540-Pg 172



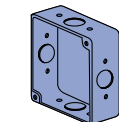
P2603-Pg 172



P3116-125-Pg 172



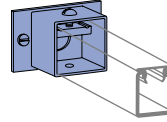
P2602-Pg 173



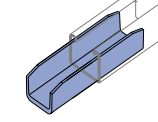
P2801-Pg 173



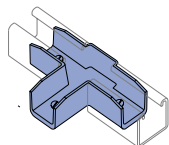
P2802-Pg 173



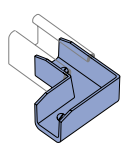
P2803-Pg 173



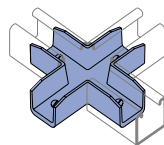
P2900-Pg 174



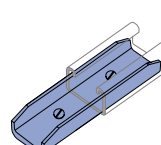
P2901-Pg 174



P2902-Pg 174



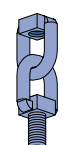
P2903-Pg 174



P2904-Pg 174



M2037-Pg 175



M2137-Pg 175



M2250-Pg 175



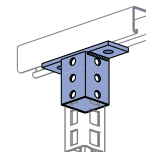
M2350-Pg 175



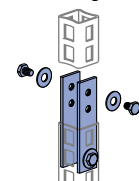
P16F-Pg 176



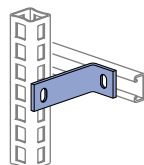
P21H-Pg 176



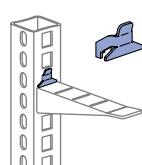
P2820-Pg 178



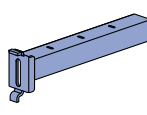
P2822-Pg 178



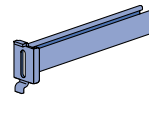
P2823-Pg 178



P2821-Pg 178



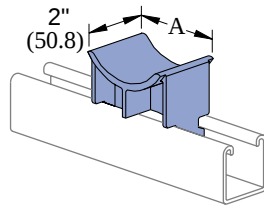
P2920-Pg 179



P2928-Pg 179

P1753, P1754

Cable Saddles

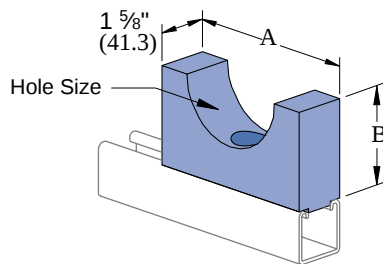


Material: FG - Fiberglass Reinforced Polyester,
PO - Dry Process White Glazed Porcelain

Part Number	"A" In (mm)	Maximum Cable Diameter In (mm)	Wt/100 pcs Lbs (kg)
P1753 FG	2 ¹³ / ₁₆ 71.4	3 76.2	12 5.4
P1754 FG	3 ³ / ₄ 95.3	4 ¹ / ₂ 114.3	17 7.7
P1753 PO	3 76.2	3 76.2	75 34.0
P1754 PO	4 101.6	4 ¹ / ₂ 114.3	95 43.1

P2649A thru P2649H

Maple Cable Saddles

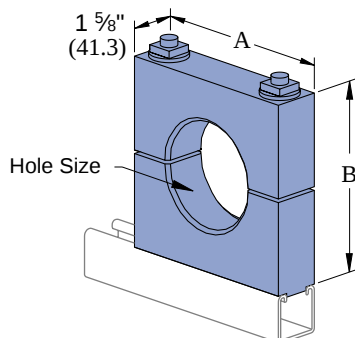


- 3/8" Flat Head Machine Screw included.
 - Specify hole size when ordering.
 - Order channel nuts as required.
- Material: Maple hardwood paraffin impregnated.

Part Number	Hole Size In (mm)	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P2649A	0 - 1 0 - 25.4	3 76.2	1 ³ / ₄ 44.5	31 14.1
P2649B	1 - 1 ¹ / ₂ 25.4 x 38.1	3 ¹ / ₂ 88.9	2 50.8	38 17.2
P2649C	1 ¹ / ₂ - 2 38.1 - 50.8	4 101.6	2 ¹ / ₄ 57.2	47 21.3
P2649D	2 - 2 ¹ / ₂ 50.8 x 63.5	4 ¹ / ₂ 114.3	2 ¹ / ₂ 63.5	57 25.9
P2649E	2 ¹ / ₂ - 3 63.5 - 76.2	5 127.0	2 ³ / ₄ 69.9	68 30.8
P2649F	3 - 3 ¹ / ₂ 76.2 x 88.9	5 ¹ / ₂ 139.7	3 76.2	80 36.3
P2649G	3 ¹ / ₂ - 4 88.9 - 101.6	6 152.4	3 ¹ / ₄ 82.6	94 42.6
P2649H	over 4 over 101.6			

P2645A thru P2645H

Maple Cable Clamps



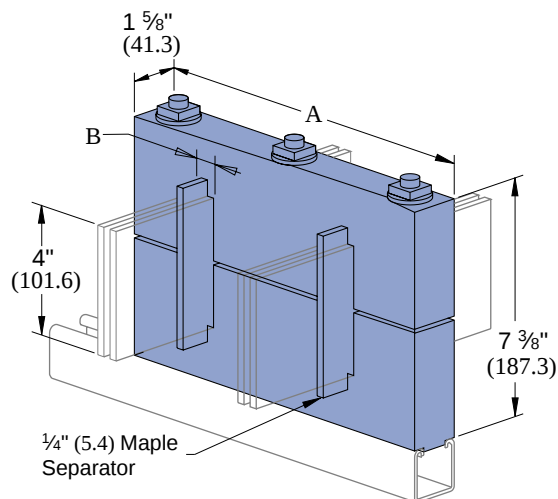
- 3/8" studs, square nuts and washers included.
 - Specify hole size when ordering.
 - Order channel nuts as required.
- Material: Maple hardwood paraffin impregnated.

Part Number	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



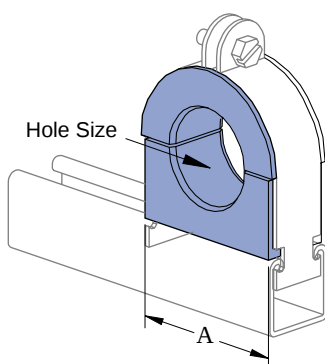
- 1/2" studs, square nuts and washers are included.
- Channel nuts must be ordered separately.
- Bus bar maple clamps also available in 1/4" (6.4) x 2" (50.8) and 1/4" (6.4) x 6" (152.4).

Part Number	"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	1 5/16 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 7/8 73.0	10	6	631 286.2

Material: Paraffin impregnated maple hardwood.

P1690 thru P1697

Maple Cable Clamps



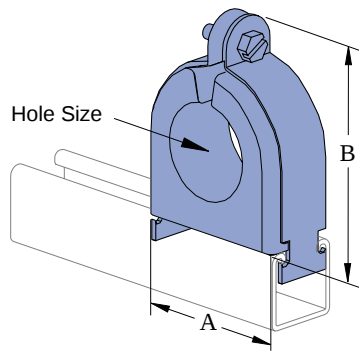
- Use with steel clamp and Everdur hardware.
- Order clamp separately.
- Specify hole size when ordering.

Part Number	Order Steel Clamp Number	Hole Size In (mm)	"A" In (mm)	Wt/100 pcs Lbs (kg)
P1690	P1113 E	0 - 5/8 0 - 15.9	1 1/2 38.1	24 10.9
P1691	P1115 E	1/2 - 1 12.7 - 25.4	2 1/8 54.0	42 19.1
P1692	P1117 E	3/4 - 1 1/2 19.1 x 38.1	2 5/8 66.7	54 24.5
P1693	P1118 E	1 1/4 - 1 3/4 31.8 x 44.5	3 76.2	65 29.5
P1694	P1119 E	1 1/2 - 2 1/4 38.1 x 57.2	3 5/8 92.1	84 38.1
P1695	P1120 E	2 - 2 1/2 50.8 x 63.5	4 1/8 104.8	107 48.5
P1696	P1121 E	2 1/4 - 3 57.2 - 76.2	4 5/8 117.5	123 55.8
P1697	P1123 E	3 - 4 76.2 - 101.6	5 3/4 146.1	163 73.9

Material: Paraffin impregnated maple hardwood.

P1787 thru P1795

Porce-A-Clamp™



Patents Pending

Strap Material: Electro-galvanized Steel (EG) or Stainless Steel (SS)

Use With: All 1½" 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.

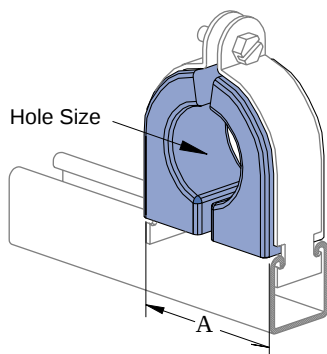
Part Number	Hole Size In (mm)	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P1787A	¾ 9.5	1.36 34.5	1.82 46.2	25 11.3
P1787B	½ 12.7			
P1787C	⅝ 15.9			
P1788	¾ 19.1	1.86 47.2	2.34 59.4	37 16.8
P1788A	⅞ 22.2			
P1788B	1 25.4			
P1788C	1⅛ 28.6			
P1789	1¼ 31.8	2.36 59.9	2.86 72.6	58 16.8
P1789A	1⅜ 34.9			
P1789B	1½ 38.1			
P1789C	1⅝ 41.3			
P1790	1¾ 44.5	2.86 72.6	3.50 88.9	76 34.5
P1790A	1⅞ 47.6			
P1790B	2 50.8			
P1790C	2⅛ 54.0			
P1791	2¼ 57.2	3.36 85.3	4.05 102.9	90 40.8
P1791A	2⅝ 60.3			

Part Number	Hole Size In (mm)	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P1791B	2½ 63.5			
P1791C	2⅝ 66.7			
P1792	2¾ 69.9	3.86 98.0	4.75 120.7	109 49.4
P1792A	2⅞ 73.0			
P1792B	3 76.2			
P1792C	3⅛ 79.4			
P1793	3¼ 82.6	4.36 110.7	5.125 130.2	130 59.0
P1793A	3⅝ 85.7			
P1793B	3⅞ 88.9			
P1793C	3⅝ 92.1			
P1794	3¾ 95.3	4.86 124.2	5.54 140.7	160 72.6
P1794A	3⅞ 98.4			
P1794B	4 101.6			
P1794C	4⅛ 104.8			
P1795	4¼ 108.0	5.24 133.1	5.92 150.4	160 72.6
P1795A	4⅝ 111.1			
P1795B	4½ 114.3			



P1787A thru P1795B

Porcelain Cable Clamps



- Use with steel clamp and Everdur hardware.
- Order clamp separately.

Material: Dry process porcelain white glaze (specified by PO suffix).

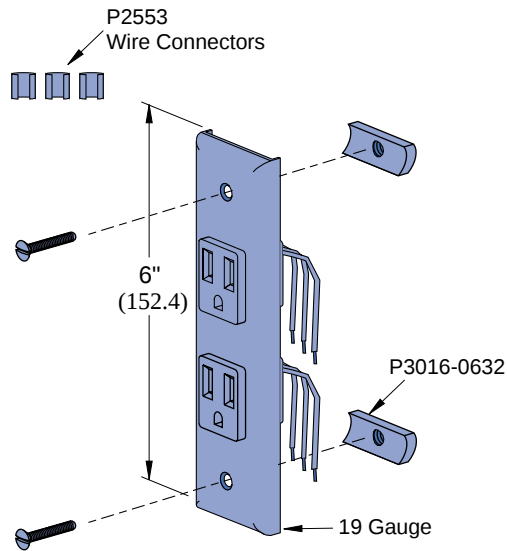
Part Number	Order Steel Clamp Number	Hole Size In (mm)	"A" In (mm)	Wt/100 pcs Lbs (kg)
P1787A PO	P1113E	$\frac{3}{8}$ 9.5	$1\frac{1}{8}$ 47.6	51 23.1
P1787B PO		$\frac{1}{2}$ 12.7		47 21.3
P1787C PO		$\frac{5}{8}$ 15.9		46 20.9
P1788 PO	P1115E	$\frac{3}{4}$ 19.1	$2\frac{3}{8}$ 60.3	85 38.6
P1788A PO		$\frac{7}{8}$ 22.2		84 38.1
P1788B PO		1 25.4		83 37.6
P1788C PO		$1\frac{1}{8}$ 28.6		76 34.5
P1789 PO	P1117E	$1\frac{1}{4}$ 31.8	$2\frac{1}{8}$ 73.0	116 52.6
P1789A PO		$1\frac{3}{8}$ 34.9		115 52.2
P1789B PO		$1\frac{1}{2}$ 38.1		108 49.0
P1789C PO		$1\frac{5}{8}$ 41.3		100 45.4
P1790 PO	P1119E	$1\frac{3}{4}$ 44.5	4 101.6	229 103.9
P1790A PO		$1\frac{7}{8}$ 47.6		224 101.6
P1790B PO		2 50.8		204 92.5
P1790C PO		$2\frac{1}{8}$ 54.0		184 83.5
P1791 PO	P1120E	$2\frac{1}{4}$ 57.2	$4\frac{1}{2}$ 114.3	255 115.7
P1791A PO		$2\frac{3}{8}$ 60.3		255 115.7
P1791B PO		$2\frac{1}{2}$ 63.5		250 113.4
P1791C PO		$2\frac{5}{8}$ 66.7		245 111.1

Part Number	Order Steel Clamp Number	Hole Size In (mm)	"A" In (mm)	Wt/100 pcs Lbs (kg)
P1792 PO	P1121E	$2\frac{3}{4}$ 69.9	$5\frac{1}{8}$ 130.2	322 146.1
P1792A PO		$2\frac{7}{8}$ 73.0		301 136.5
P1792B PO		3 76.2		301 136.5
P1792C PO		$3\frac{1}{8}$ 79.4		296 134.3
P1793 PO	P1123E	$3\frac{1}{4}$ 82.6	$6\frac{1}{8}$ 155.6	460 208.7
P1793A PO		$3\frac{3}{8}$ 85.7		440 199.6
P1793B PO		$3\frac{1}{2}$ 88.9		433 196.4
P1793C PO		$3\frac{5}{8}$ 92.1		423 191.9
P1794 PO	P1124E	$3\frac{3}{4}$ 95.3	$7\frac{1}{4}$ 184.2	698 316.6
P1794A PO		$3\frac{7}{8}$ 98.4		678 307.5
P1794B PO		4 101.6		648 293.9
P1794C PO		$4\frac{1}{8}$ 104.8		638 289.4
P1795 PO	P1124E	$4\frac{1}{4}$ 108.0	$7\frac{1}{4}$ 184.2	648 293.9
P1795A PO		$4\frac{3}{8}$ 111.1		598 271.2
P1795B PO		$4\frac{1}{2}$ 114.3		588 266.7

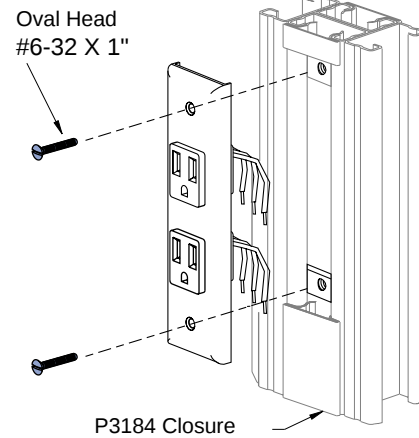
P2557

Duplex Grounded Receptacle

Wt/100 pcs: 38 Lbs (17.2 kg)



- 125 V, 15 amp receptacle, NEMA configuration 5-15R, cover plate.
- #6 screws, nuts and wire connectors included.
- Leads are 14 gauge 105°C plastic covered.
- Ground wire is green 16 gauge.

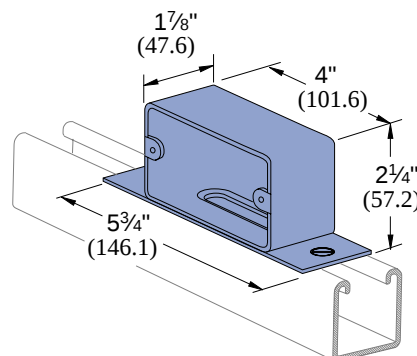


Finish: White powder coat.

P2567

Outlet Box

Wt/100 pcs: 88 Lbs (47.8 kg)



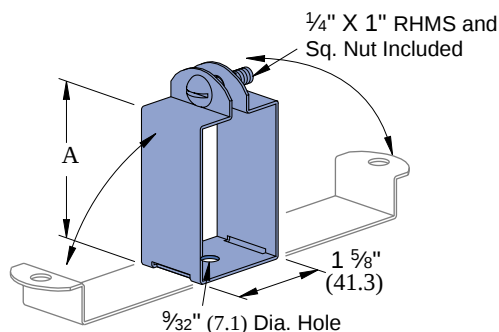
Material: 14 Gauge (.075)

Assembly: 1 Box, 2 Screws, 2 Channel Nuts



P2537, P5537

Fluorescent Fixture Hangers



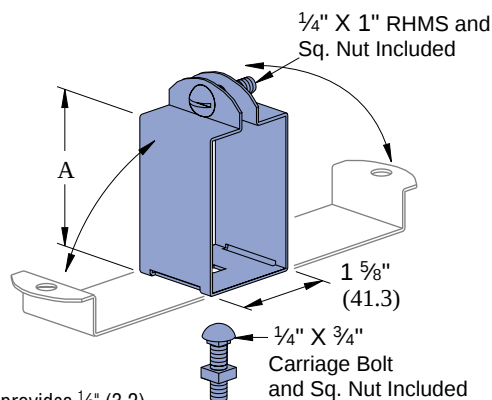
- Hanger provides more than 1/2" (12.7) space between channel and fixtures.
- Materials: 18 gauge (1.2).

Design Load
120 Lbs (54.4 kg)

Part Number	Use With Channel	"A" In (mm)	Wt/100 pcs Lbs (kg)
P2537	P1000		
	P1100	2 7/16	19
	P3000	61.9	8.6
P5537	P5500	3 1/4	22
		82.6	10.0

P2539, P3539, P5539

Fluorescent Fixture Hangers

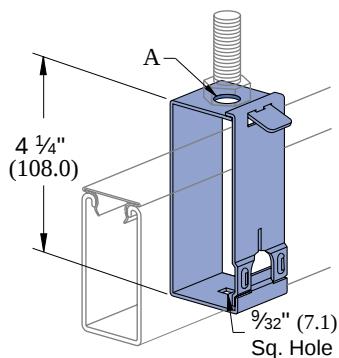


- Hanger provides 1/8" (3.2) space between channel and fixtures.
- Materials: 18 gauge (1.2).

Design Load
120 Lbs (54.4 kg)

Part Number	Use With Channel	"A" In (mm)	Wt/100 pcs Lbs (kg)
P2539	P1000		
	P1100	1 3/4	17
		44.5	7.7
P3539	P3000	1 1/2	15
		38.1	6.8
P5539	P5500	2 9/16	18
		65.1	8.2

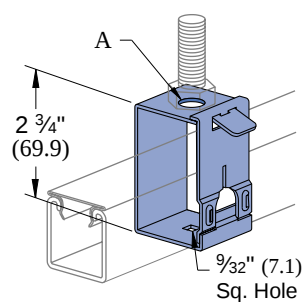
P2755, P2756, P2757 Raceway Hangers



- Use with Channels:
P1001, P1101, P2001, P5000, & P5500.
- Material: 14 gauge (1.9).

Design Load
120 Lbs (54.4 kg)

Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)
P2755	9/16	44
	14.3	20.0
P2756	7/8	44
	22.2	20.0
P2757	1 3/32	44
	10.3	20.0



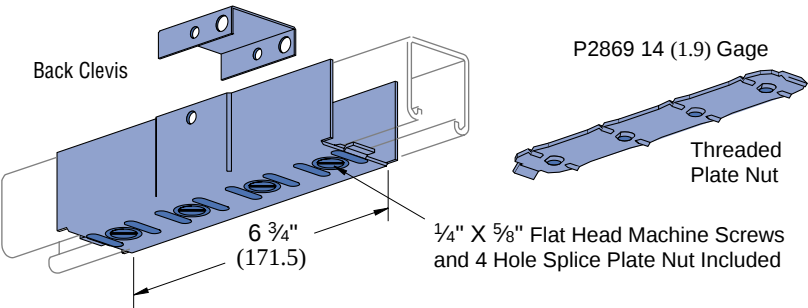
- Use with Channels:
P1000, P1100, P3000, P3300
- Material: 14 gauge (1.9).

Design Load
120 Lbs (54.4 kg)

Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)
P2855	9/16	32
	14.3	14.5
P2856	7/8	32
	22.2	14.5
P2857	1 3/32	32
	10.3	14.5

P3922 thru P3926

Splice Fittings



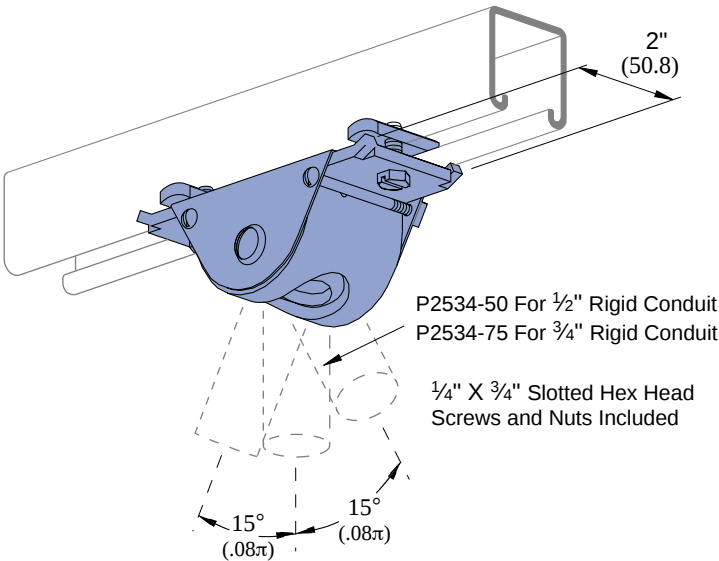
Assembly Number	Use With Channel	"A" In (mm)	Clevis Number	Back Clevis Number	Plate Nut Number	Wt/100 pcs Lbs (kg)
P3922	P1000 P1100	1 5/8 41.3	P2377	P2517	P2869	100 45.4
P3923	P3000	1 3/8 34.9	P3377	P2517	P2869	97 44.0
P3924	P4000	1 3/16 20.6	P5377	P2517	P2869	80 36.3
P3925	P5500	1 5/8 41.3	P2377	P5517	P2869	103 46.7
P3926	P5000	1 5/8 41.3	P2377	P5017	P2869	106 48.1

Material: 16 gauge (1.6).

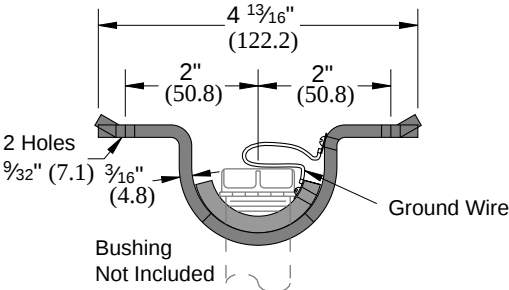
P2534-50, P2534-75

Conduit Swing Fitting

Wt/100 pcs: 96 Lbs (43.5 kg)



Design Load
300 Lbs (136.1 kg)



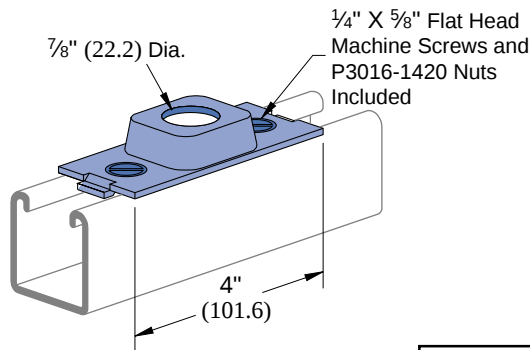
- Conduit hanger fittings allow a free swivel of 15° in one direction.
- Fitting may be mounted to the slot side of the Unistrut channel or to the back.



P2535

Conduit Hanger Connection

For 1/2" Conduit
Wt/100 pcs: 28 Lbs (12.7 kg)



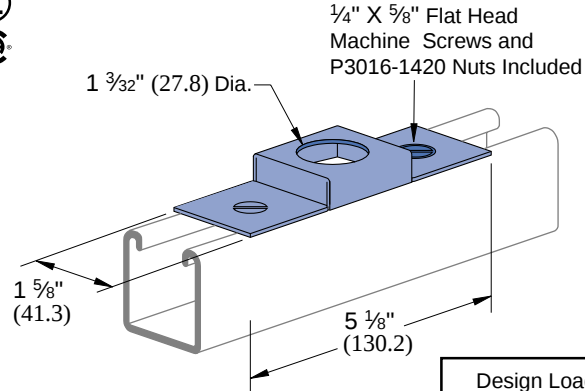
Design Load
400 Lbs (181.4 kg)

Material: 12 gauge (2.7).

P2536

Conduit Hanger Connection

For 3/4" Conduit
Wt/100 pcs: 36 Lbs (16.3 kg)



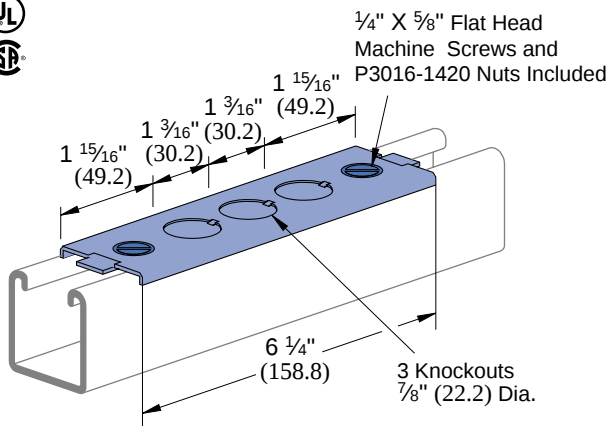
Design Load
200 Lbs (90.7 kg)

Material: 16 gauge (1.5)

P2522

Outlet Box Connection

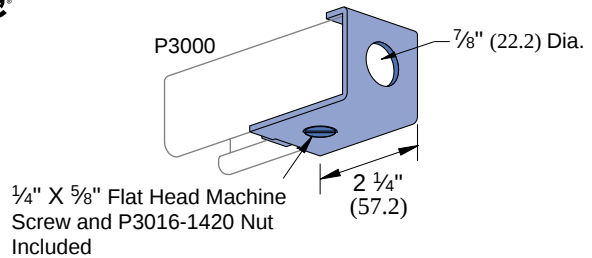
Wt/100 pcs: 35 Lbs (15.9 kg)



P3521-50

End Connectors

For 1/2" Conduit
Wt/100 pcs: 27 Lbs (12.2 kg)

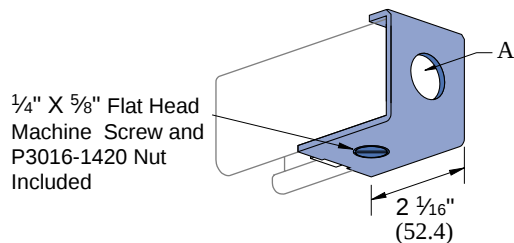


Material: 12 gauge (2.7).

P2521-50, P2521-75

End Connectors

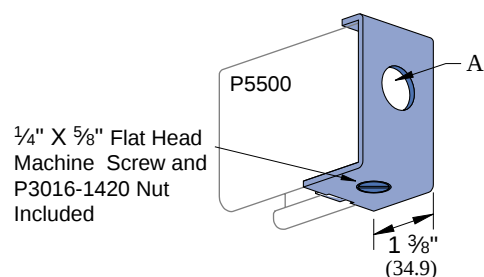
For 1/2" and 3/4" Conduit



P5521-50, P5521-75

End Connectors

For 1/2" and 3/4" Conduit



Use with channels:
P1000 and P1100.
Material: 12 gauge (2.7)

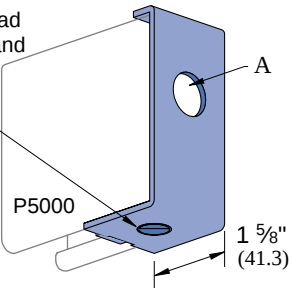
Part Number	Conduit Size A In	Wt/100 pcs Lbs (kg)
P2521-50	1/2	27 12.2
P2521-75	3/4	26 11.8

Material: 12 gauge (2.7).

Part Number	Conduit Size A In	Wt/100 pcs Lbs (kg)
P5521-50	1/2	27 12.2
P5521-75	3/4	26 11.8

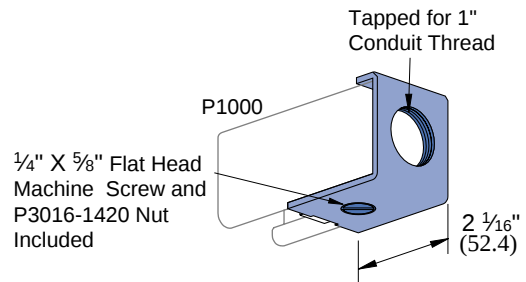
P5021-50, P5021-75**End Connector**
For ½" and ¾" Conduit

¼" X ⅝" Flat Head
Machine Screw and
P3016-1420 Nut
Included

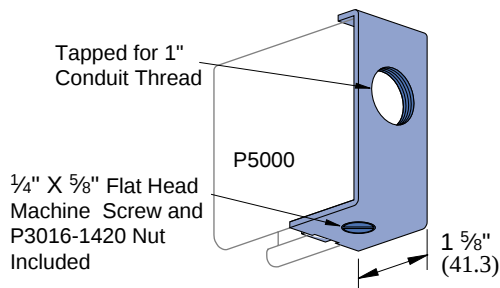


Part Number	Conduit Size A In	Wt/100 pcs Lbs (kg)
P5021-50	½	31 14.1
P5021-75	¾	30 13.6

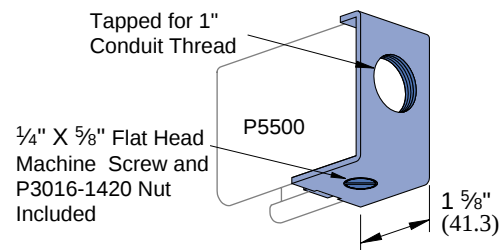
Material: 12 gauge (2.7).

P2521-100**End Connector**
For 1" Conduit
Wt/100 pcs: 24 Lbs (10.9 kg)

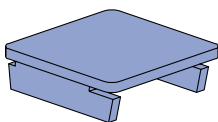
Material: 12 gauge (2.7).

P5021-100**End Connector**
For 1" Conduit
Wt/100 pcs: 28 Lbs (12.7 kg)

Material: 12 gauge (2.7).

P5521-100**End Connector**
For 1" Conduit
Wt/100 pcs: 24 Lbs (10.9 kg)

Material: 12 gauge (2.7).

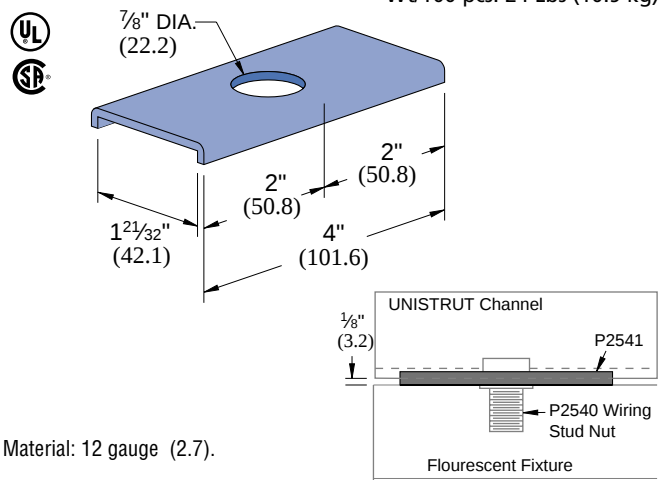
P1180W thru P5580**End Caps**

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

Material: 14 gauge (1.9)

P2541**Spacer Clevis**

Wt/100 pcs: 24 Lbs (10.9 kg)

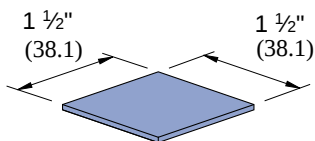


Material: 12 gauge (2.7).

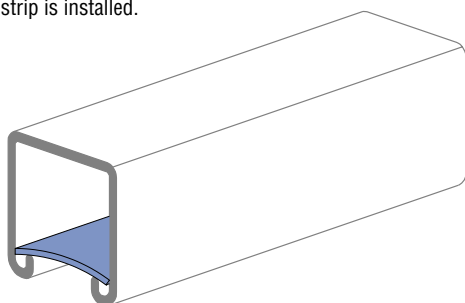


P2552 Polypropylene Wire Retainer

Wt/100 pcs: .30 Lbs (.1 kg)



Retainer may be easily pushed into channel to support wires until closure strip is installed.



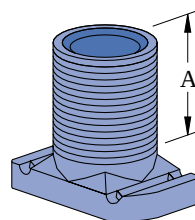
P2540, P2540A

Wiring Stud Nut



1/2" American Standard
Straight Pipe Thread

Stamped Ident. No.
P2540 – 121961
P2540A – 121960



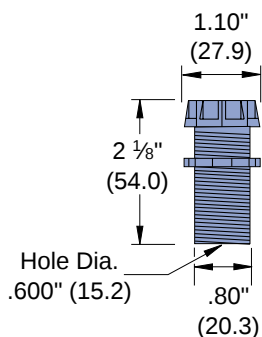
Design Load
320 Lbs (145.1 kg)

Material: Sintered metal.

Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)
P2540	1 5/8 28.6	10.0 4.5
P2540A	5/8 15.9	8 3.6

P2603 Fixture Wiring Nipple

Wt/100 pcs: 14 Lbs (6.4 kg)



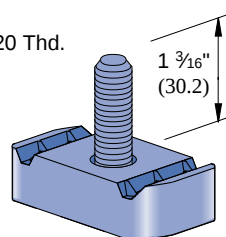
Assembly: 1/2" x 2" rigid conduit nipple
Bushing Locknut

P3116-125

Fixture Stud Nut

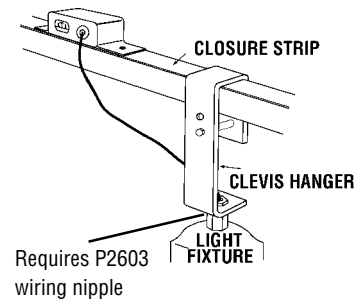
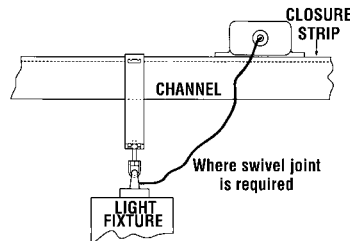
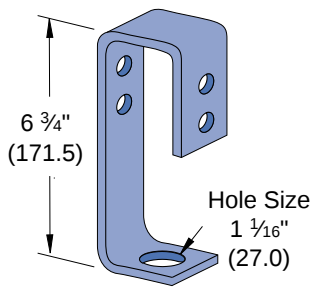
Wt/100 pcs: 11 Lbs (5.0 kg)

1/4" x 20 Thd.



P2602**Mercury Vapor Fixture Hanger**

Wt/100 pcs: 154 Lbs (69.9 kg)



Use with 1 5/8" Channel

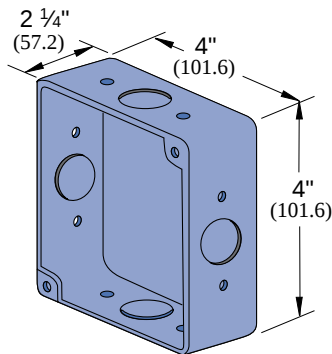
Finish: Electro-galvanized

Stock Size: 1/4"

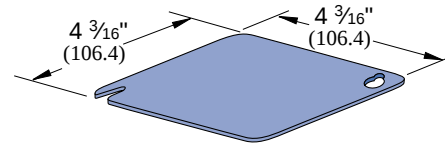
NOTE: Supports fixture in slot up or down system.

P2801**Junction Box**

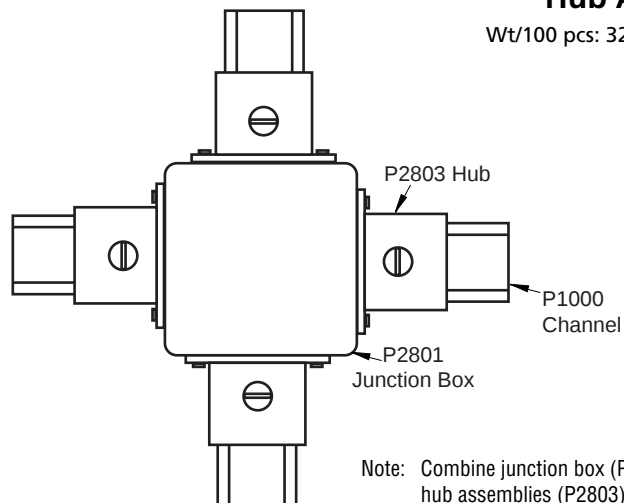
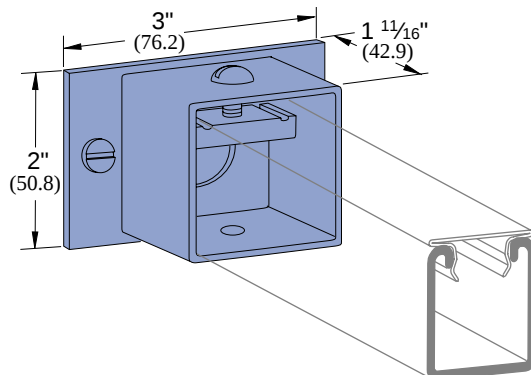
Wt/100 pcs: 113 Lbs (51.4 kg)

**P2802****Junction Box Cover**

Wt/100 pcs: 30 Lbs (13.6kg)

**P2803****Hub Assembly**

Wt/100 pcs: 32 Lbs (14.5 kg)

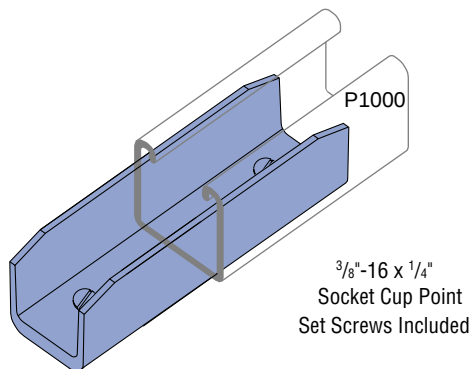


Note: Combine junction box (P2801) and hub assemblies (P2803) to make 1, 2, 3, or 4 way junction box.



P2900

Wt/100 pcs: 20 Lbs (9.1 kg)

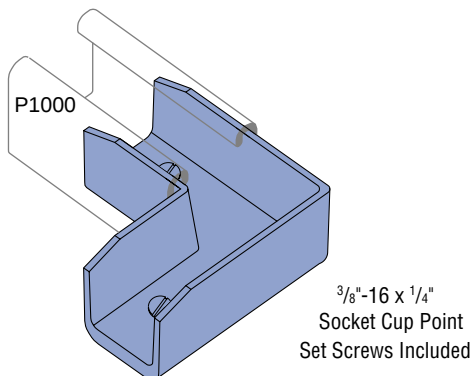


$\frac{3}{8}$ "-16 x $\frac{1}{4}$ "
Socket Cup Point
Set Screws Included

Material: Cast aluminum.

P2902

Wt/100 pcs: 27 Lbs (12.2 kg)

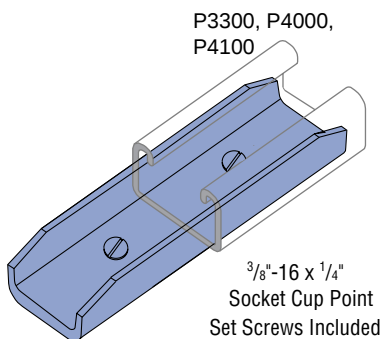


$\frac{3}{8}$ "-16 x $\frac{1}{4}$ "
Socket Cup Point
Set Screws Included

Material: Cast aluminum.

P2904

Wt/100 pcs: 12 Lbs (5.4kg)

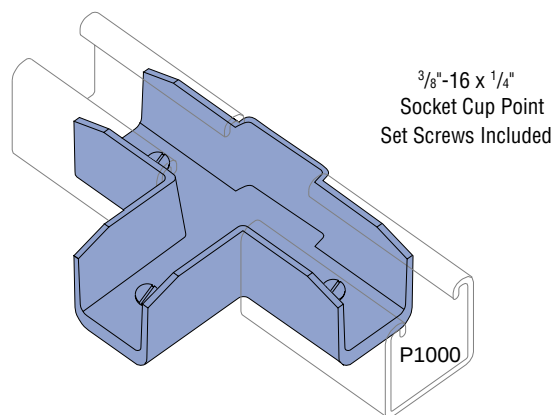


P3300, P4000,
P4100

$\frac{3}{8}$ "-16 x $\frac{1}{4}$ "
Socket Cup Point
Set Screws Included

P2901

Wt/100 pcs: 35 Lbs (15.9 kg)

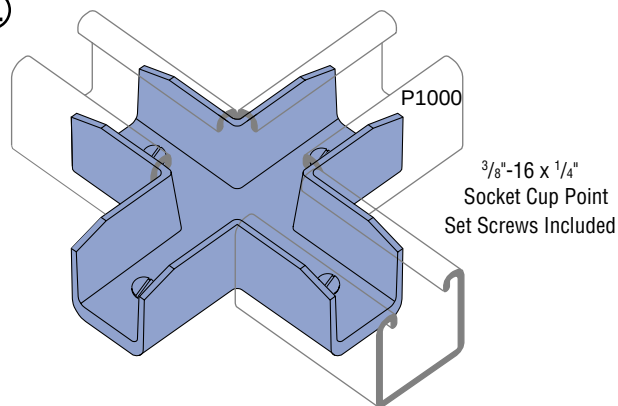


$\frac{3}{8}$ "-16 x $\frac{1}{4}$ "
Socket Cup Point
Set Screws Included

Material: Cast aluminum.

P2903

Wt/100 pcs: 45 Lbs (20.4 kg)

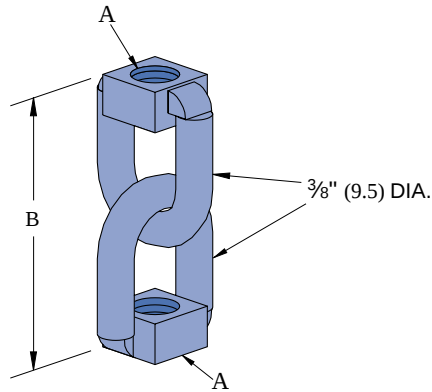


$\frac{3}{8}$ "-16 x $\frac{1}{4}$ "
Socket Cup Point
Set Screws Included

Material: Cast aluminum.

M2037, M2050

Swivel Hangers

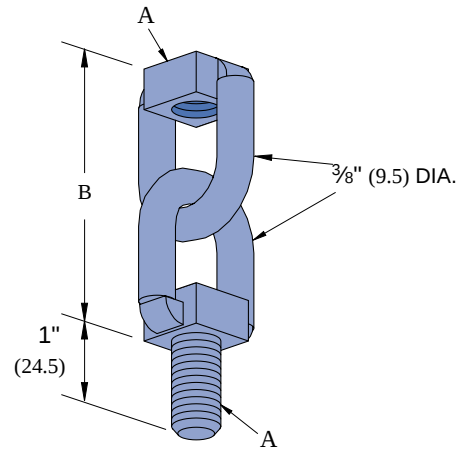


Design Load
600 Lbs (271.8 kg)

Part Number	"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

M2137, M2150

Swivel Hangers



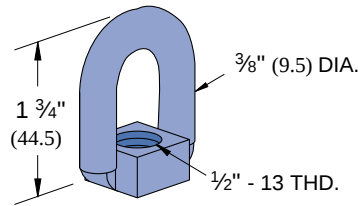
Design Load
600 Lbs (271.8 kg)

Part Number	"A" In	"B" In (mm)	Wt/100 pcs Lbs (kg)
M2137	3/8" - 16	2 29/32 73.8	27 12.2
M2150	1/2" - 13	2 3/4 69.9	45 20.4

M2250

Swivel Hanger

Wt/100 pcs: 18 Lbs (8.2 kg)

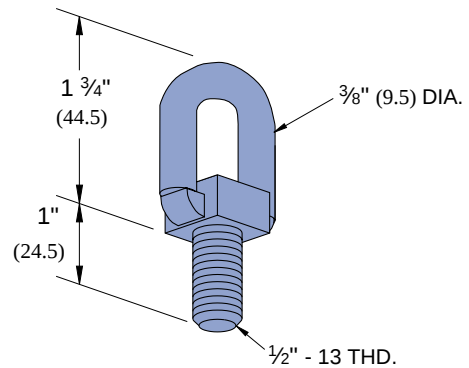


Design Load
600 Lbs (271.8 kg)

M2350

Swivel Hanger

Wt/100 pcs: 20 Lbs (9.1 kg)

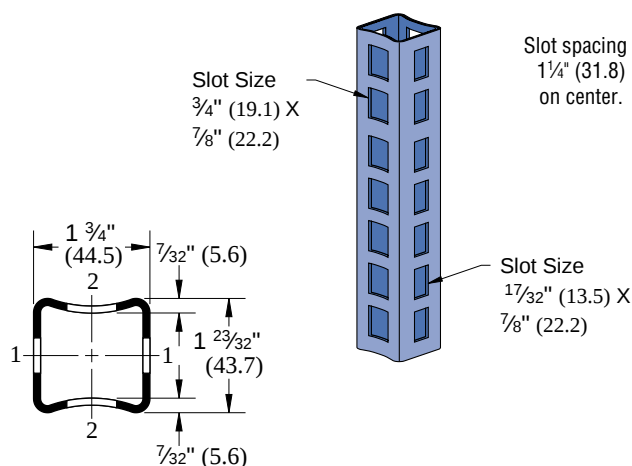


Design Load
600 Lbs (271.8 kg)



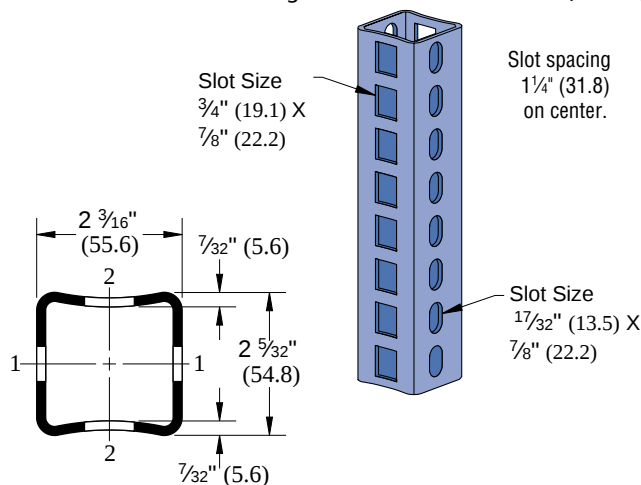
P16F

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)



P21H

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)



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

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

COLUMN LOADING – P16F

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

COLUMN LOADING –P21F

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

COLUMN LOADING – P16F (METRIC)

Unbraced Height mm	Max. Allowable Load Column Loaded at C.G. kg	Max. Allowable Load Column Loaded at Slot Face kg
610	4,354	1,497
914	4,082	1,406
1,219	3,765	1,315
1,524	3,402	1,225
1,829	2,994	1,089
2,134	2,540	998
2,438	2,041	862
2,743	1,633	726
3,048	1,315	635
3,658	907	499

COLUMN LOADING –P21F (METRIC)

Unbraced Height mm	Max. Allowable Load Column Loaded at C.G. kg	Max. Allowable Load Column Loaded at Slot Face kg
610	8,029	2,812
914	7,666	2,722
1,219	7,257	2,585
1,524	6,804	2,449
1,829	6,305	2,313
2,134	5,715	2,132
2,438	5,126	1,950
2,743	4,491	1,769
3,048	3,765	1,588
3,658	2,631	1,270
4,267	1,919	1,043

BEAM LOADING – P16F

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	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

BEAM LOADING – P21F

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	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

BEAM LOADING – P16F (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	737	1	737	737	737
750	590	2	590	590	550
1,000	442	4	442	442	309
1,250	354	6	354	297	198
1,500	295	9	275	206	138
1,750	253	12	202	152	101
2,000	221	16	155	116	77
2,500	177	25	99	74	50
3,000	148	36	69	52	34
3,500	126	49	51	38	25
4,000	111	64	39	29	19

BEAM LOADING – P21F (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	1747	1	1747	1747	1747
750	1397	2	1397	1397	1397
1,000	1048	3	1048	1048	902
1,250	838	5	838	838	578
1,500	699	7	699	602	401
1,750	599	10	589	442	295
2,000	524	13	451	338	226
2,500	419	20	289	217	144
3,000	349	29	201	150	100
3,500	299	40	147	111	74
4,000	262	52	113	85	56

Notes:

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.

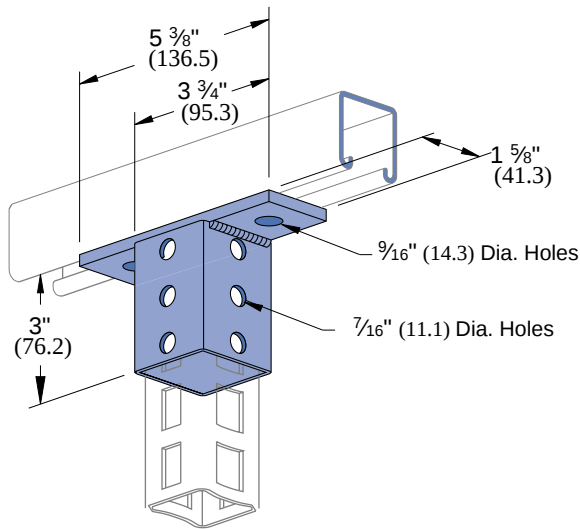
ELEMENTS OF SECTION – P16F

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

ELEMENTS OF SECTION – P21H

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

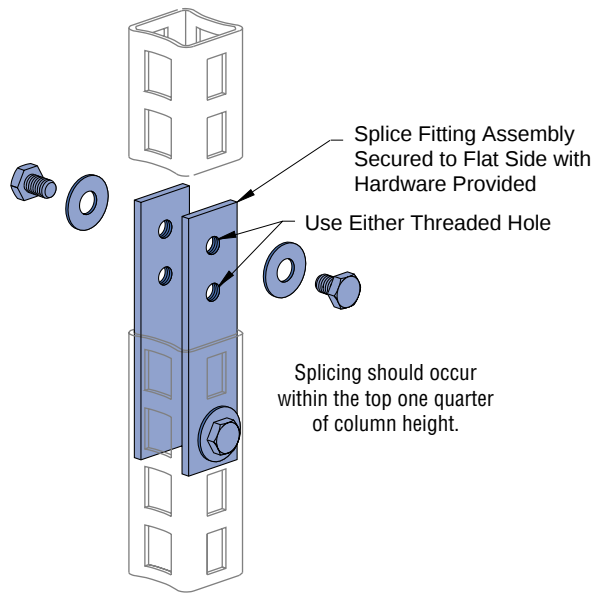
P2820, P2940 Channel/Tube Connectors



Part Number	Use With	Wt/100 pcs Lbs (kg)
P2820	P16F	116 2.6
P2940	P21H	148 67.1

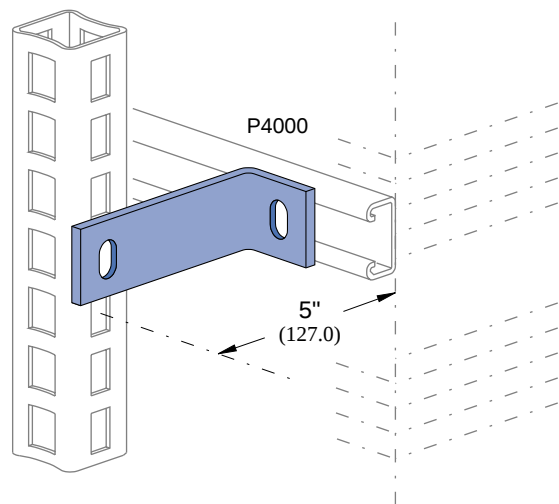
P2822, P2932

Splice Fittings

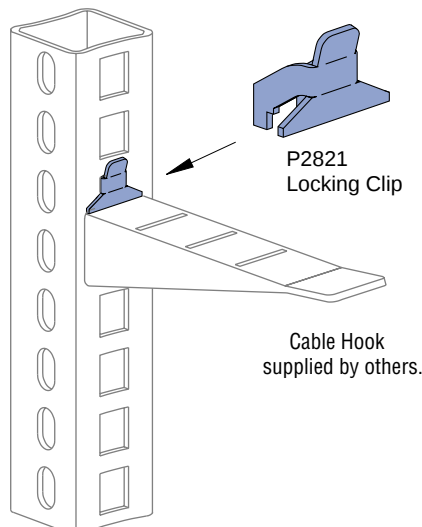


Part Number	Use With	Wt/100 pcs Lbs (kg)
P2822	P16F	97 44.0
P2932	P21H	122 55.3

P2823 90° Rack Fitting
Wt/100 pcs: 66 Lbs (29.9 kg)



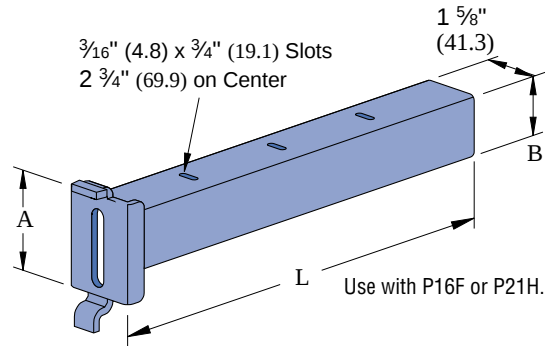
P2821 Locking Clip
Wt/100 pcs: 3 Lbs (1.4 kg)



Exclusive Cable Hook
Locking Clip prevents
Cable Hook removal.

P2920 thru P2924

Cable Brackets



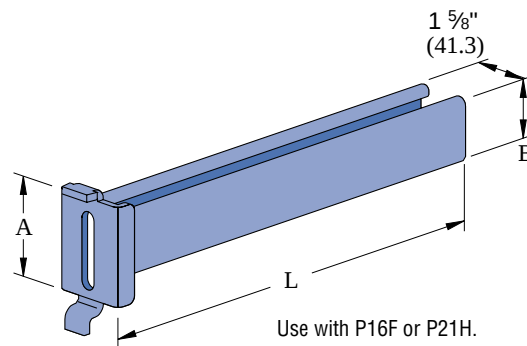
Material: 12 gauge steel.

Part Number	"L"	"A"	"B"	Wt/100 pcs Lbs (kg)	Uniform Design Load Lbs (kg)
P2920	5½ 139.7	3½ 88.9	7⁄8 22.2	90 40.8	500 2.2
P2921	8¼ 209.6	3½ 88.9	7⁄8 22.2	120 54.4	325 1.4
P2922	11 279.4	3½ 88.9	1⅝ 41.3	300 136.1	275 1.2
P2923	13¾ 349.3	3½ 88.9	1⅝ 41.3	340 154.2	220 1.0
P2924	19¼ 489.0	3½ 88.9	1⅝ 41.3	430 195.0	160 0.7

Safety factor of 3.

P2928, P2929 and P2930

Cable Brackets



Material: 12 gauge steel.

Part Number	"L"	"A"	"B"	Wt/100 pcs Lbs (kg)	Uniform Design Load Lbs (kg)
P2928	6 152.4	3½ 88.9	7⁄8 22.2	92 41.7	500 2.2
P2929	12 304.8	3½ 88.9	1⅝ 41.3	320 145.1	250 1.1
P2930	18 457.2	3½ 88.9	1⅝ 41.3	420 190.5	170 0.8

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 ½" (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	1½" x 7/8"	0.975	0.390	0.244
		629	252	157
P3000 & KO	1½" x 1½"	1.677	0.671	0.419
		1,082	433	270
P1000 & KO, P1100 & KO	1½" x 1½"	2.028	0.811	0.507
		1,308	523	327
P5500 & KO	1½" x 2 7/16"	3.169	1.268	0.792
		2,045	818	511
P5000 & KO	1½" x 3 1/4"	4.308	1.723	1.077

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 ½" (12.7). Also suitable for number of wires in column B when installed to support electric

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

discharge type lighting fixtures when raceway wiring is suitable for at least 75° C and clearance between fixtures and raceway is at least ½" (3.2).

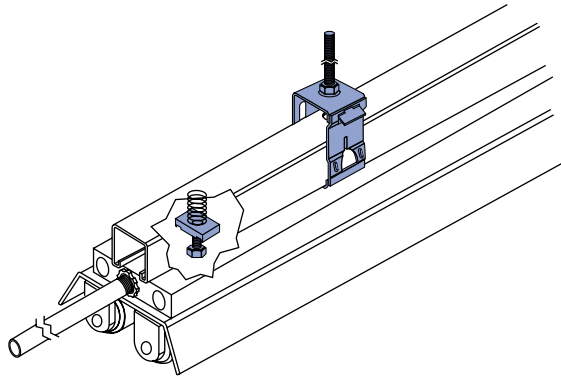
Maximum number of wires for types T, THHN, THW, THWN, TW, R, RH, RHH, RHW or XHHW

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	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.

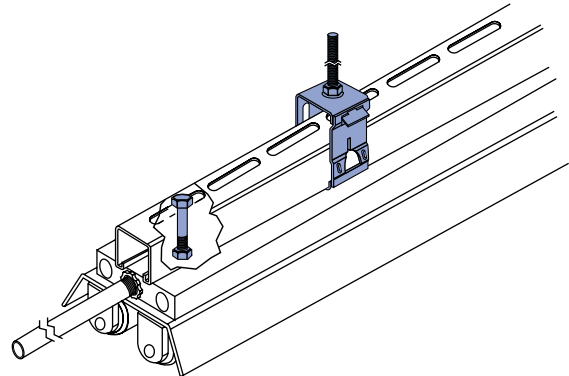
Fluorescent Fixtures - Support Applications

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

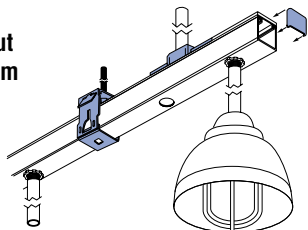
Deflections are based on continuity of span and use of 4 ft. fixtures weighing approximately 30 lbs. each. Do not use joiner fittings between supporting hangers. When using knock-out or slotted channels deflections will be increased approximately 5%. With fixtures spaced 2' - 0" apart, deflection is 60-70% of table. When spaced 4' - 0" apart, deflection is 50-60% of table.

Deflection Table

Channel	Distance Between Supports								
	8' (2.4m) In (mm)	10' (3m) In (mm)	12' (3.7m) In (mm)	14' (4.3m) In (mm)	16' (4.9m) In (mm)	18' (5.5m) In (mm)	20' (6.1m) In (mm)	22' (6.7m) In (mm)	24' (7.3m) In (mm)
P3300	0.187 4.7								
P3000	0.100 2.5	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

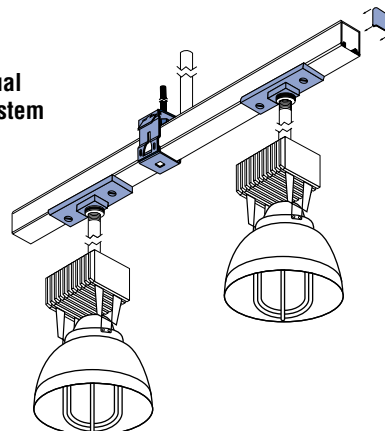
High-Bay Fixture Raceway Applications

H.I.D. Knockout mounted system



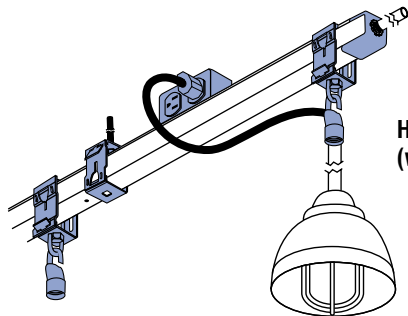
Fixture attached to and wired from raceway by $\frac{1}{2}$ " nipple assembly of desired length at channel knockout. P1280W end cap, P3184 closure strip, P2535 conduit connector, and P2855 channel hanger complete assembly. For splicing channels into continuous raceway runs, use joiner fitting P3922.

High-Bay dual mounted system



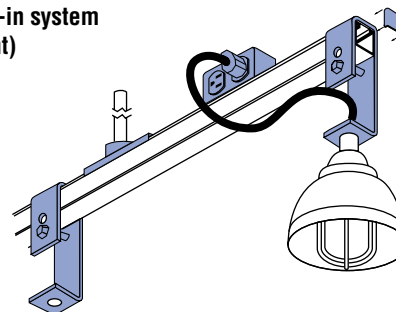
Fixtures are connected to and wired from raceway by conduit connector fitting P2536. Raceway is supported by P2855 hanger. P1280W endcaps and P3184 closure strip complete the assembly. Conduit connected to raceway through channel knockout.

H.I.D. Plug-in system (with swivel)



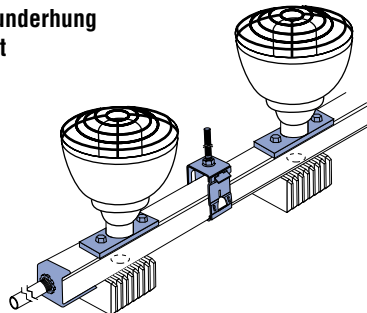
Fixtures, supported by P2855 hangers and M2250 eyelets, plug into receptacle mounted in P2763 outlet box. P2855 hangers also support raceway. P2521-75 end connector joins conduit to raceway. P1280W end caps (not shown) and P3184 closure strip complete assembly.

H.I.D. Plug-in system (rigid mount)

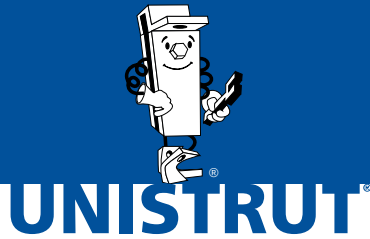


Fixtures are supported by P2602 clevis hangers. Cover plate on P2761 outlet box provides access to receptacle box. Raceway is supported and wired by top mounted P2535 conduit connectors. P1280W end caps and P3184 closure strip complete assembly.

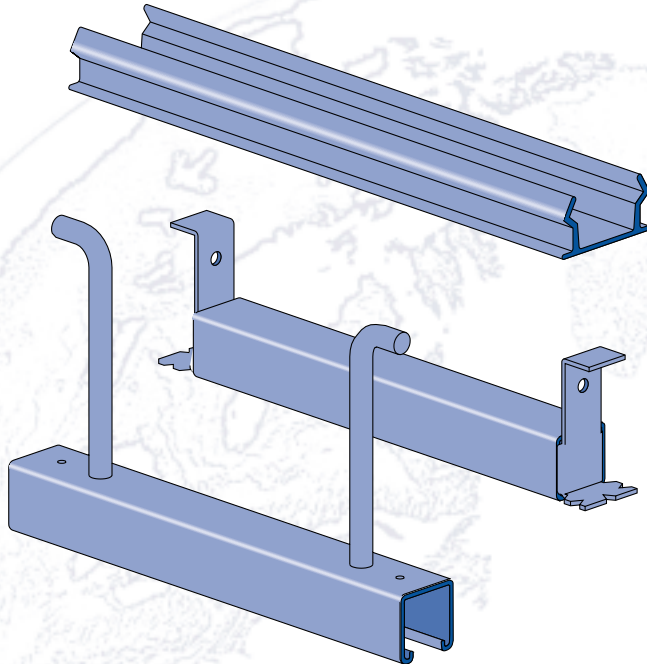
Uplighting with underhung or remote ballast



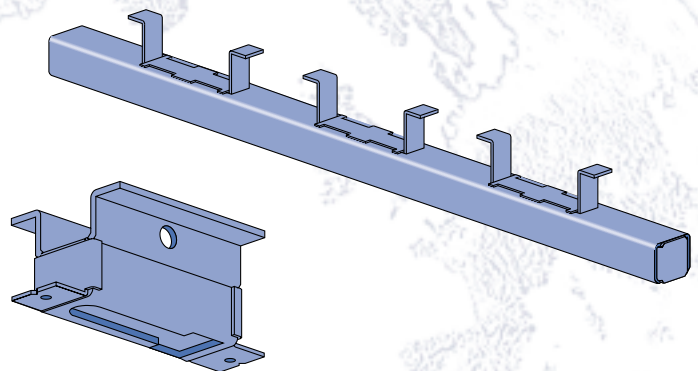
Fixtures attached to and wired from P2535 conduit fittings mounted to slot side of channel. Raceway can be wired by P2521 as shown or, conduit can enter through available knockout. Ballasts in P2521 are connected at the knockout by fixture adapter. In remote ballast installations, follow manufacturers 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.



CONCRETE INSERTS



Heavy-Duty Inserts	185
Standard-Duty Inserts	186
Light-Duty Inserts	188
Spot Inserts	189
Components	191
Technical Data	192



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.

Hot-rolled inserts, as noted, are manufactured from carbon steel meeting physical requirements of ASTM A283 GR D.

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 Perma-Green II (GR), hot dipped galvanized (HG), conforming to ASTM A123 or A153; pre-galvanized (PG), conforming to ASTM A653 GR 33 and 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 mm) to 20 feet (6.10m) with a tolerance of $\pm \frac{1}{4}$ -inch (6.4mm).

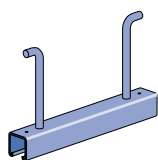
DIMENSIONS

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.

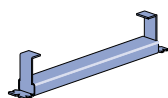


Heavy Duty

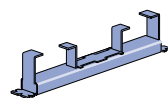


P3754-Pg 185

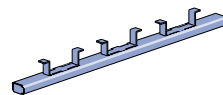
Light Duty



P3349-Pg 188

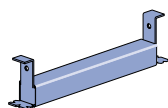


P3352-Pg 188

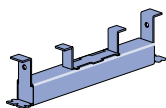


P3354-Pg 188

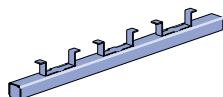
Standard Duty



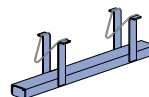
P3249-Pg 186



P3253-Pg 186



P3253-Pg 186

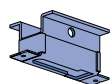


P3165-Pg 187



P2865-Pg 187

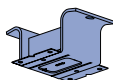
Spot Inserts and Components



P3245-Pg 189



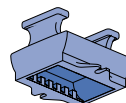
P3245N4-Pg 189



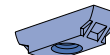
M24-Pg 189



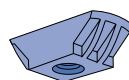
M2506-Pg 189



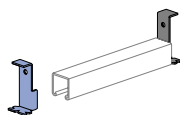
M26-Pg 190



M2808-Pg 190



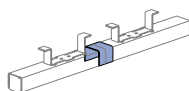
M2708-Pg 190



P1703-Pg 191

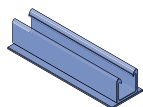


P2407-Pg 191

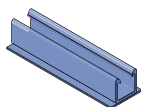


P3663-Pg 191

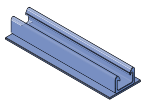
Fiberglass Concrete Inserts



Heavy Duty-Pg 240

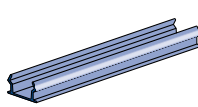


Standard Duty-Pg 244

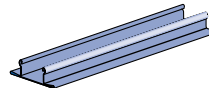


Light Duty-Pg 242

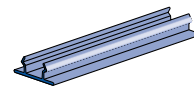
Closure Strips



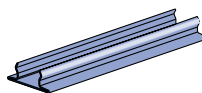
P3712-Pg 59



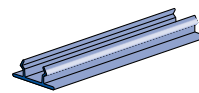
P1184-Pg 59



P1184 PVC-Pg 59



P3184-Pg 59



P3184P-Pg 59

Channel Nuts



Heavy Duty-Pg 78



Heavy Duty-Pg 78



Standard Duty-Pg 78



Standard Duty-Pg 78



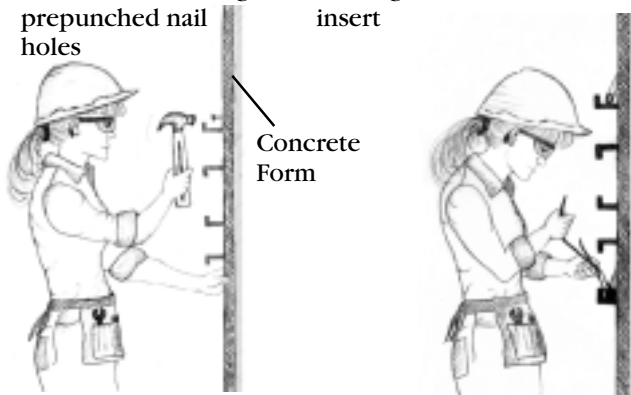
Light Duty-Pg 78



Light Duty-Pg 78

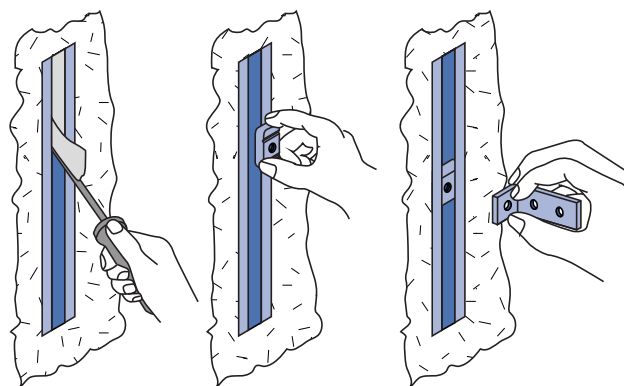
Installing Concrete Inserts

1. Nail insert to concrete form using prepunched nail holes
2. Attach rebars to flanges on 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.

Using Installed Concrete Insert

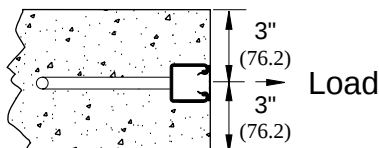
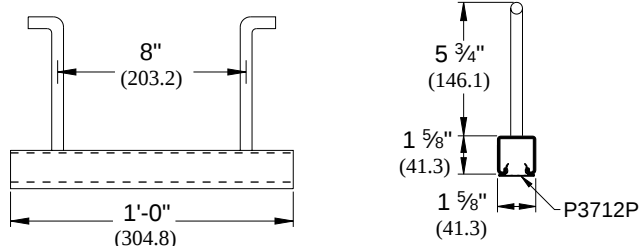
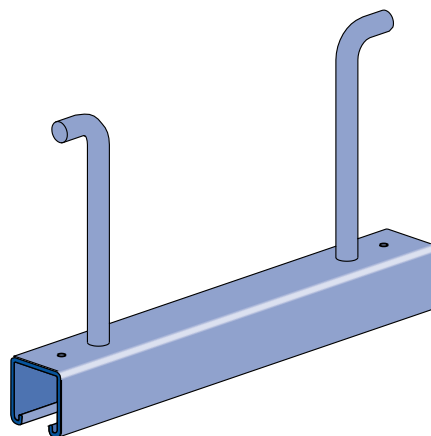


1. Scrape out filler
2. Insert channel nut.
3. Attach fitting

P3754 Series

1 5/8" x 1 5/8" 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 1/3 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. Stainless steel available on special order.
- Finish: Choice of Perma-Green II (GR), hot-dipped galvanized (HG) conforming to ASTM A123 or A153, pre-galvanized (PG) conforming to ASTM A653-G90, or plain (PL).



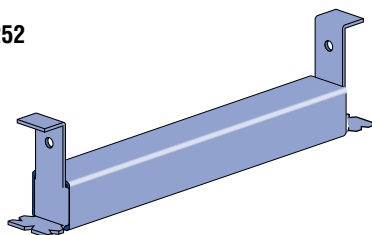
Part Number	Insert Length ±1/4" (6.4mm) In (mm)	Wt/100 pcs Lbs (kg)	Max. Anchor Spacing In (mm)	Max. Allowable Point Load Lbs (kg)	Spacing of Point Loads In (mm)	Max. Allowable Uniform Load Lbs (kg)
P3754	12 304.8	210 95.3	8 203.2	2,500 1,134.0	3 76.2	5,000 2,268.0



P3200 Series

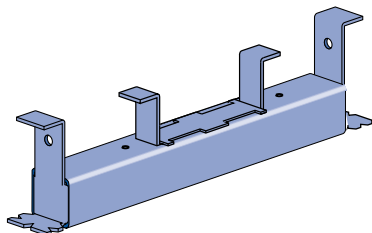
1 5/8" x 1 3/8" Channel

P3249 thru P3252



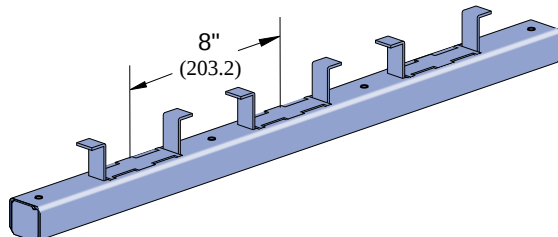
"NC" Suffix – No Closure Strip, With End Caps
"WC" Suffix – With Closure Strip & End Caps

P3253

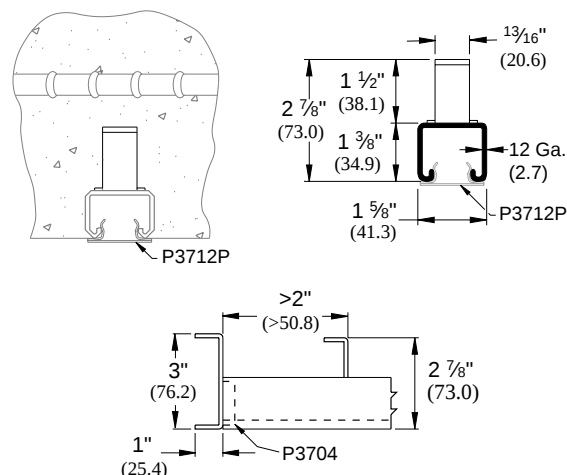


"NC" Suffix – No Closure Strip, With End Caps & Back Plates
"WC" Suffix – With Closure Strip, End Caps & Back Plates

P3253 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



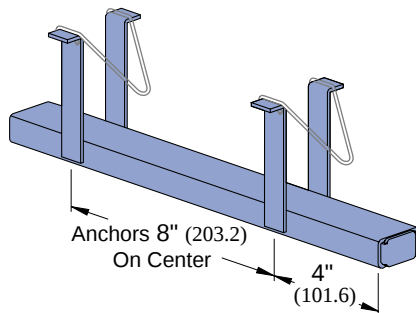
- when used for sprinkler systems.
- Includes closure and end caps unless otherwise requested.
- P3280 end cap used when distance to first anchor is up to 2" (50.8 mm).
- P3704 end cap is used when end distance to first anchor is over 2" (50.8 mm).
- Nail or anchor inserts to forms every 16" (406 mm) to 24" (610 mm).
- Anchors are 8" (203.2 mm) on center.
- 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 Perma-Green II (GR), hot-dipped galvanized (HG) conforming to ASTM A123 or A153, pre-galvanized (PG) conforming to ASTM A653-G90, or plain (PL).

Part Number	Insert Length In/Ft (mm)	Wt/100 pcs Lbs (kg)	Max. Allowable Point Load Lbs (kg)	Min. Spacing of Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs (kg)
P3249	3" 76.2	85 38.6	500 226.8	—	500 226.8
P3250	4" 101.6	100 45.4	800 362.9	—	800 362.9
P3251	6" 152.4	130 59.0	1,000 453.6	—	1,000 453.6
P3252	8" 203.2	159 72.1	1,200 544.3	—	1,200 544.3
P3253	12" 304.8	227 103.0	2,000 907.2	—	2,000 907.2
P3254	16" 406.4	270 122.5	2,000 907.2	12 304.8	4,000 1,814.4
P3255	20" 508.0	357 161.9	2,000 907.2	12 304.8	4,000 1,814.4
P3256	24" 609.6	399 181.0	2,000 907.2	12 304.8	4,000 1,814.4
P3257	32" 812.8	527 239.0	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3257A	36" 914.4	616 279.4	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3258	40" 1,016.0	661 299.8	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3259	4' 1,219.2	786 356.5	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3260	5' 1,524.0	1,003 455.0	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3261	6' 1,828.8	1,173 532.1	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3262	7' 2,133.6	1,390 630.5	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3263	8' 2,438.4	1,560 707.6	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3264	9' 2,743.2	1,741 789.7	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3265	10' 3,048.0	1,947 883.1	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3266	12' 3,657.6	2,334 1,058.7	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3267	14' 4,267.2	2,717 1,232.4	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3268	16' 4,876.8	3,116 1,413.4	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3269	18' 5,486.4	3,530 1,601.2	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)
P3270	20' 6,096.0	3,882 1,760.8	2,000 907.2	12 304.8	2,000 Lbs./Ft. 2,976.3 (kg/m)

Safety factor 3.

P3165 Series

1½" x 7/8" Channel

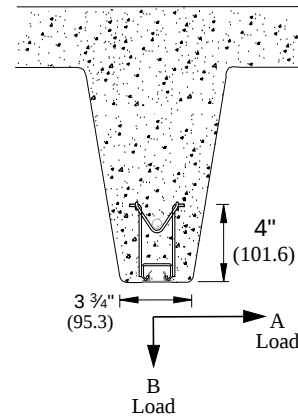


"X" Suffix – No Closure Strip, No End Caps

"WC" Suffix – With Closure Strip & End Caps

Part Number	Length Ft (M)	Wt/100 pcs Lbs (kg)
P3165	10 3.05	1,650 748.4
P3170	20 6.10	3,280 1,487.8

Safety factor 3.



Maximum allowable load/ft.

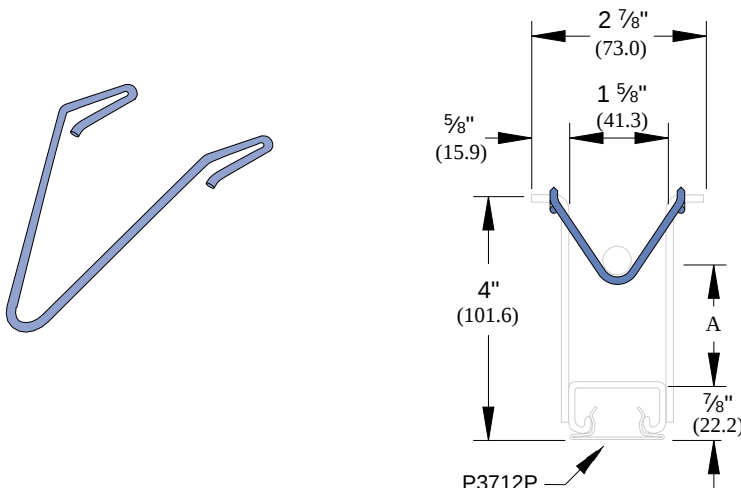
Concrete	A Lbs (kg)	B Lbs (kg)
Light Weight	425 192.8	800 362.9
Normal Weight	500 226.8	1,000 453.6

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 Perma-Green II (GR), hot-dipped galvanized (HG) conforming to ASTM A123 or A153, pre-galvanized (PG) conforming to ASTM A653-G90, or plain (PL).

P2865-10, -15, -20

Hold-Down Springs



Part Number	A In (mm)	Wt/100 pcs Lbs (kg)
P2865-10	1 25.4	2 0.9
P2865-15	1½ 38.1	2 0.9
P2865-20	2 50.8	2 0.9

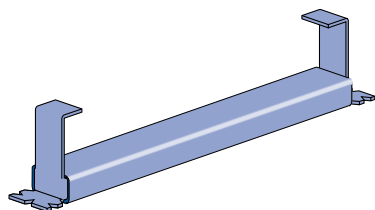
Finish: Plain



P3300 Series

1½" x 7/8" Channel

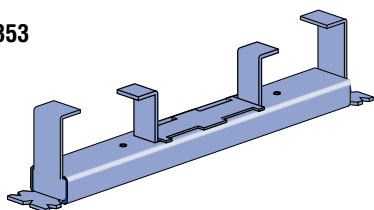
P3349 thru P3351



"NC" Suffix – No Closure Strip, With End Caps

"WC" Suffix – With Closure Strip & End Caps

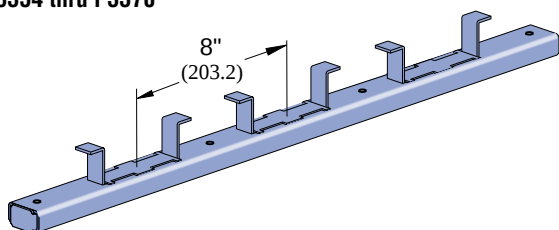
P3352 thru P3353



"NC" Suffix – No Closure Strip, With End Caps & Back Plates

"WC" Suffix – With Closure Strip, End Caps & Back Plates

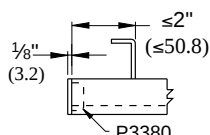
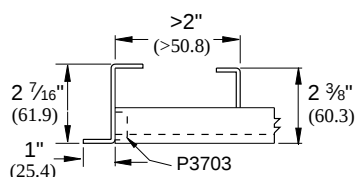
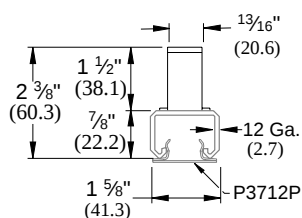
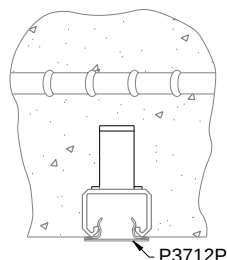
P3354 thru P3370



"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

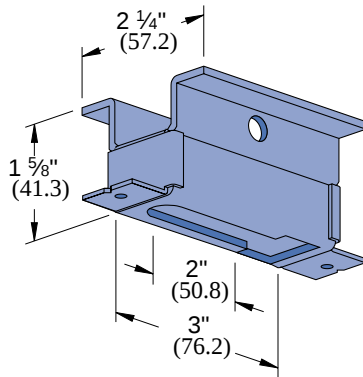


-  when used for sprinkler systems.
- Includes closure and end caps unless otherwise requested.
- P3380 end cap used when distance to first anchor is up to 2" (50.8 mm).
- P3703 end cap is used when end distance to first anchor is over 2" (50.8 mm).
- Nail or anchor inserts to forms every 16" (406 mm) to 24" (610 mm).
- Anchors are 8" (203.2mm) on center.
- Material: Cold formed from 12 Ga. (2.7 mm) steel conforming to ASTM A1011 SS GR. 33 or A653 GR 33. A. Stainless steel available on special order.
- Finish: Choice of Perma-Green II (GR), hot-dipped galvanized (HG) conforming to ASTM A123 or A153, pre-galvanized (PG) conforming to ASTM A653-G90, or plain (PL).

Part Number	Insert Length In/Ft. (mm)	Wt/100 pcs Lbs (kg)	Max. Allowable Point Load Lbs (kg)	Min. Spacing of Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs (kg)
P3349	3" 76.2	68 30.8	400 181.4	—	400 181.4
P3350	4" 101.6	81 36.7	500 226.8	—	500 226.8
P3351	6" 152.4	102 46.3	750 340.2	—	750 340.2
P3352	8" 203.2	122 55.3	1,000 453.6	—	1,000 453.6
P3353	12" 304.8	174 78.9	1,500 680.4	—	1,500 680.4
P3354	16" 406.4	185.0 83.9	1,500 680.4	12 304.8	3,000 1,360.8
P3355	20" 508.0	231 104.8	1,500 680.4	12 304.8	3,000 1,360.8
P3356	24" 609.6	277 125.6	1,500 680.4	12 304.8	3,000 1,360.8
P3357	32" 812.8	370 167.8	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3357A	36" 914.4	416 188.7	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3358	40" 1,016.0	463 210.0	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3359	4' 1,219.2	555 251.7	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3360	5' 1,524.0	694 314.8	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3361	6' 1,828.8	832 377.4	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3362	7' 2,133.6	971 440.4	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3363	8' 2,438.4	1,110 503.5	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3364	9' 2,743.2	1,249 566.5	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3365	10' 3,048.0	1,387 629.1	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3366	12' 3,657.6	1,665.0 755.2	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3367	14' 4,267.2	1,942 880.9	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3368	16' 4,876.8	2,220 1,007.0	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3369	18' 5,486.4	2,497 1,132.6	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)
P3370	20' 6,096.0	2,775 1,258.7	1,500 680.4	12 304.8	1,500 Lbs./Ft. 2,232.2 (kg/m)

Safety factor 3.

P3245

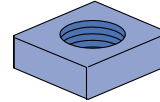


Part Number	Wt/100 pcs Lbs (kg)	Max. Allowable Pt. Load Lbs (kg)
P3245	54 24.5	1,000 453.6

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.



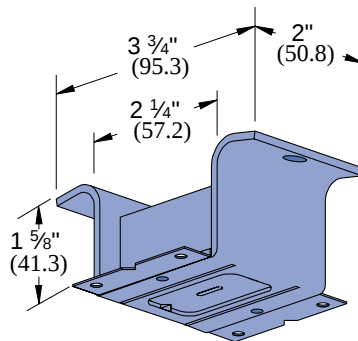
Square Nut for P3245 Insert

Part Number	Size/Thread In	Wt/100 pcs Lbs (kg)
P3245-N4	1/4" — 20	6 2.7
P3245-N6	3/8" — 16	5 2.3
HSQN050	1/2" — 13	6 2.7

Finish: Electro-galvanized

M24

Spot Insert

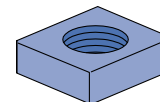
(When used for
sprinkler systems only.)

Part Number	Wt/100 pcs Lbs (kg)	Max. Allowable Pt. Load Lbs (kg)
M24	52 23.6	800 362.9

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.



Square Nut for M24

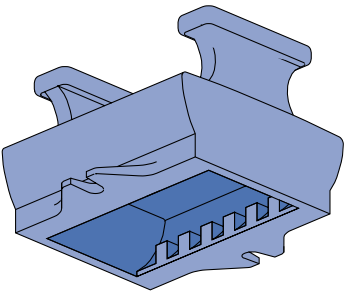
Part Number	Size/Thread In	Wt/100 pcs Lbs (kg)
M2506	1/4" — 20	13 5.9
M2508	3/8" — 16	14 6.4
M2510	1/2" — 13	14 6.4
M2512	5/8" — 11	12 5.4
M2523	3/4" — 10	11 5.0
M2524	7/8" — 9	10 4.5

Finish: Electro-galvanized

M26

Spot Insert

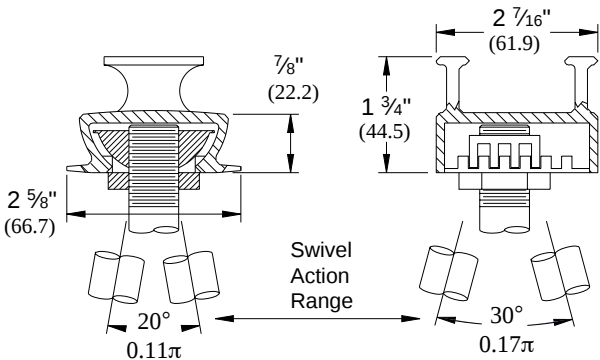


(When used for
sprinkler systems only.)

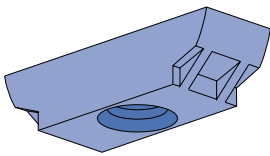
Part Number	Wt/100 pcs Lbs (kg)	Max. Allowable Pt. Load Lbs (kg)
M26	63 28.6	1,500 680.4

Finish: Malleable Iron
Material: Cadmium
Safety factor of 5



Rigid Nut for M26 Insert

Swivel Nut for M26 Insert

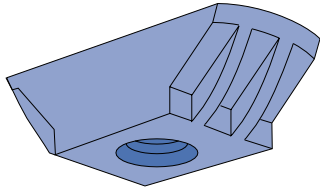


Part Number	Size/Thread In	Max. Allowable Load* Lbs (kg)	Wt/100 pcs Lbs (kg)
M2808	3/8" — 16	610 276.7	12 5.4
M2810	1/2" — 13	950 430.9	11 5.0
M2812	5/8" — 11	1,500 680.4	14 6.4
M2823	3/4" — 10	1,500 680.4	13 5.9
M2824	7/8" — 9	1,500 680.4	11 5.0

Finish: Cadmium

*The Fixed Position safe load ratings are for inserts and nut only and are based on the minimum of the following two conditions:

- (1) Load carrying capacities of threaded hanger rod as listed in the American Standard Code for 1.
- (2) Laboratory tests of ultimate strength in any fixed rigid position with a safety factor of 5.



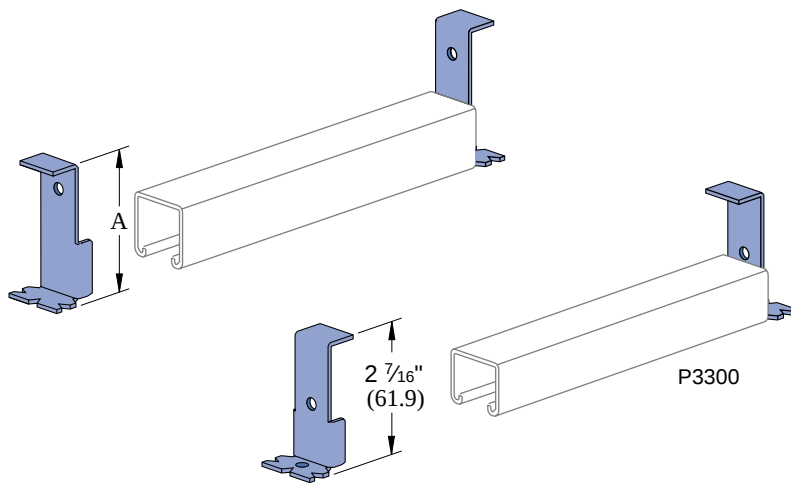
Part Number	Size/Thread In	Max. Allowable Load Swivel** Lbs (kg)	Wt/100 pcs Lbs (kg)
M2708	3/8" — 16	75 34.0	15 6.8
M2710	1/2" — 13	180 81.6	15 6.8
M2712	5/8" — 11	360 163.3	20 9.1
M2723	3/4" — 10	640 290.3	18 8.2
M2724	7/8" — 9	1,000 453.6	15 6.8

Finish: Cadmium

** The Swivel Action safe load ratings assures the swivel movement of the nut before the hanger is subjected to a severe bending stress, in conformance with the American Standard Code for Piping, 1967.

P1703, P1704, P3704, P3703

End Cap Anchors

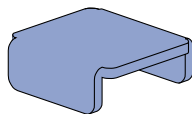


Part Number	Channel	"A" In (mm)	Wt/100 pcs Lbs (kg)
P1703	P1000	2 ¹³ / ₃₂ 61.1	30 13.6
P1704	P1000	3 ¹⁷ / ₃₂ 89.7	37 16.8
P3703	P3300	2 ⁷ / ₁₆ 61.9	17 7.7
P3704	P3000	3 76.2	20 9.1
P4703	P4000	2 ³ / ₈ 60.3	27 12.2

Note: End cap anchor for use with 1⁵/₈" wide standard Unistrut inserts only.

P2407, P3280, P3380

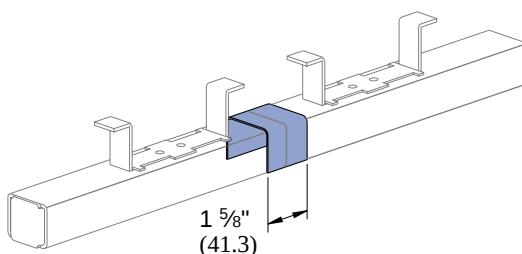
End Caps



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 1⁵/₈" wide standard Unistrut inserts only.



Load Chart by Length

Part Number	Insert Length In (mm)	Wt/100 ft Lbs (kg)	Anchor Spacing In (mm)	Max. Allowable Point Load Lbs (kg)	Min. Spacing Between Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs (kg)
P3249	3 76.2	85 38.6	3 76.2	500 226.8	—	500 226.8
P3349		68 30.8	3 76.2	400 181.4	—	400 181.4
P3250	4 101.6	100 45.4	4 101.6	800 362.9	—	800 362.9
P3350		81 36.7	4 101.6	500 226.8	—	500 226.8
P3251	6 152.4	130 59.0	6 152.4	1,000 453.6	—	1,000 453.6
P3351		102 46.3	6 152.4	750 340.2	—	750 340.2
P3252	8 203.2	159 72.1	8 203.2	1,200 544.3	—	1,200 544.3
P3352		122 55.3	8 203.2	1,000 453.6	—	1,000 453.6
P3754	12 304.8	210 95.3	8 203.2	2,500 1,134.0	3 76.2	5,000 2,268.0
P3253		227 103.0	4 101.6	2,000 907.2	—	2,000 907.2
P3353		174 78.9	4 101.6	1,500 680.4	—	1,500 680.4
P3254	16 406.4	270 122.5	4 101.6	2,000 907.2	12 304.8	4,000 1,814.4
P3354		185 83.9	4 101.6	1,500 680.4	12 304.8	3,000 1,360.8
P3255	20 508.0	357 161.9	4 101.6	2,000 907.2	12 304.8	4,000 1,814.4
P3355		231 104.8	4 101.6	1,500 680.4	12 304.8	3,000 1,360.8
P3256	24 609.6	399 181.0	4 101.6	2,000 907.2	12 304.8	4,000 1,814.4
P3356		277 125.6	4 101.6	1,500 680.4	12 304.8	3,000 1,360.8

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 (kg)	Min. Spacing Between Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs/Ft (kg/m)
P3270	194 88.0	4 101.6	2,000 907.2	12 304.8	2,000 2,976.3
P3370	139 63.0	4 101.6	1,500 680.4	12 304.8	1,500 2,232.2
P3170*	165 74.8	8 203.2	1,000 453.6	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.

Spot Insert Load Chart

Part Number	Wt/100 pcs Lbs (kg)	Anchor Spacing In (mm)	Max. Allowable Point Load Lbs (kg)	Min. Spacing Between Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs/Ft (kg/m)
M26/M2812	54 24.5	—	1,500 680.4	—	1,500 680.4
M3245	52 23.6	—	1,000 453.6	—	1,000 453.6
M24/M2512	52 23.6	—	800 362.9	—	800 362.9

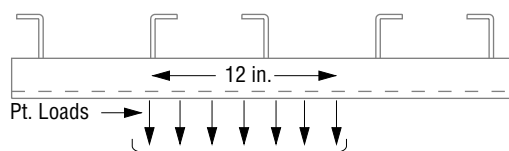
Maximum Allowable Point Load



Max. 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%.

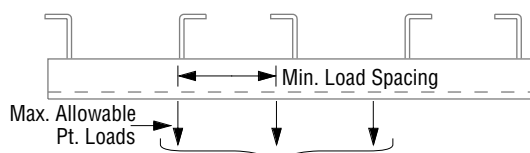
Maximum Allowable Uniform Load



Max. Allowable Uniform Load

The maximum allowable uniform load must be placed as a series of point loads.

Spacing of Multiple Point Loads

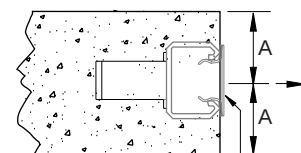
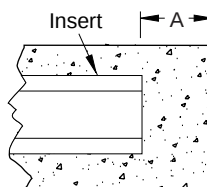


Max. Allowable Uniform Load

Pull-Out Load

Minimum Edge Distance to Achieve Rated Pull-Out Capacity

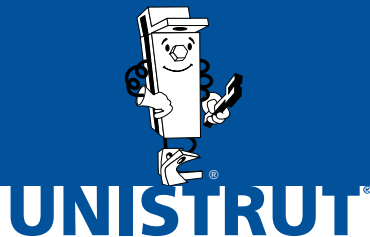
A = 1 7/8" (48mm); P3170
3" (76mm); all others



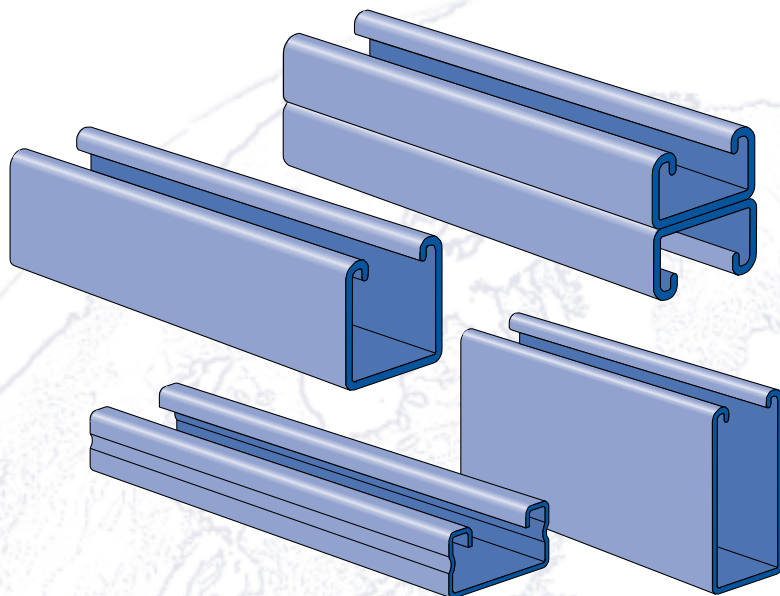
P3712P

Note

When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



1 1/4" FRAMING SYSTEM



A1000 (14 Gauge)	196
A3300 (14 Gauge)	199
A4000 (19 Gauge)	201
A5000 (14 Gauge)	203
Channel Nuts and Closure Strips	205
Flat Plate Fittings	207
Ninety Degree Fittings	208
"Z" Shape Fittings	210
Angle and Wing Shape Fittings	211
"U" Shape Fittings	212
Tubing Clips	213
Brackets	214

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),
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 II (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 II or plain.

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"	5/16"	3/8"
FOOT LBS.	6	11	19
N·m	8	15	25

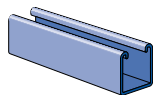
DIMENSIONS

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.

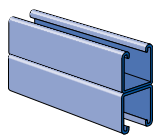


A1000 Series

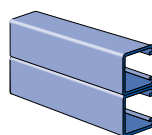
1 1/4" x 1 1/4"
14 Ga.



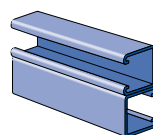
A1000-Pg 196



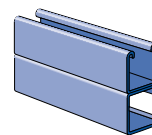
A1001-Pg 196



A1001 A-Pg 196



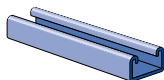
A1001 B-Pg 196



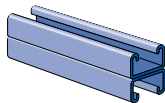
A1001 C-Pg 196

A3300 Series

1 1/4" x 3/4"
14 Ga.



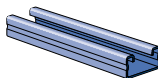
A3300-Pg 199



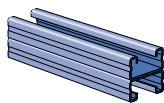
A3301-Pg 199

A4000 Series

1 1/4" x 5/8"
19 Ga.



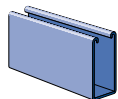
A4000-Pg 201



A4001-Pg 201

A5000 Series

1 1/4" x 2 1/2"
14 Ga.



A5000-Pg 203

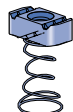
Channel Nuts & Closures



A1006-1420-Pg 205



A4006-1420-Pg 205



A5006-1420-Pg 205



A3006-1420-Pg 205



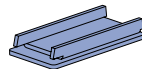
A3016-0832-Pg 205



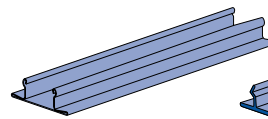
A1280-Pg 206



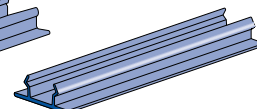
A4280-Pg 206



A5280-Pg 206

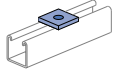


A1184-Pg 206

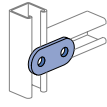


A1184P-Pg 206

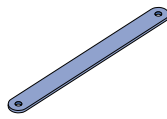
A Series Fittings



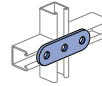
A1063-Pg 207



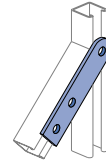
A1065-Pg 207



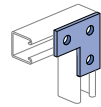
A1191-Pg 207



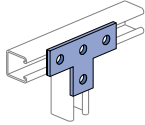
A1066-Pg 207



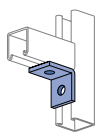
A2324-Pg 207



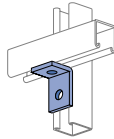
A1036-Pg 207



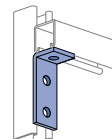
A1031-Pg 208



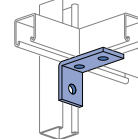
A1026-Pg 208



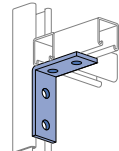
A1068-Pg 208



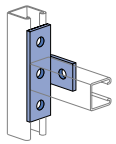
A1326-Pg 208



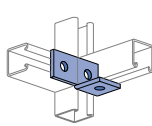
A1458-Pg 208



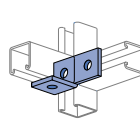
A1325-Pg 208



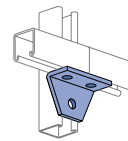
A1033-Pg 209



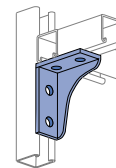
A1037-Pg 209



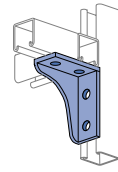
A1038-Pg 209



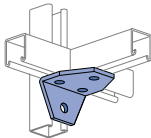
A1357-Pg 209



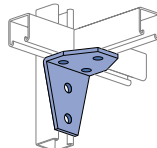
A1331-Pg 209



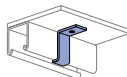
A1332-Pg 209



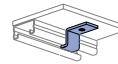
A1579-Pg 210



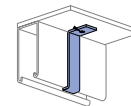
A2235-Pg 210



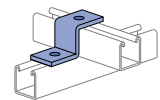
A2120-Pg 210



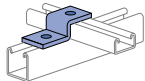
A4120-Pg 210



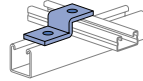
A5120-Pg 210



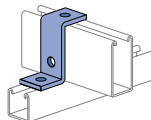
A1045-Pg 210



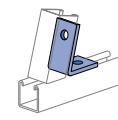
A3345-Pg 211



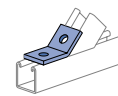
A4045-Pg 211



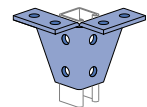
A5045-Pg 211



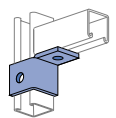
A2109-Pg 211



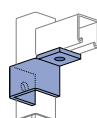
A2125-Pg 211



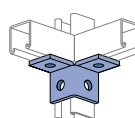
A2084-Pg 211



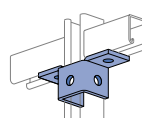
A2341 R-L-Pg 212



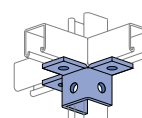
A2472 R-L-Pg 212



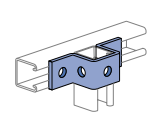
A2223-Pg 212



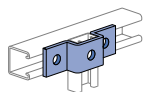
A2345-Pg 212



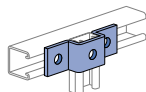
A2227-Pg 212



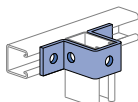
A1047-Pg 212



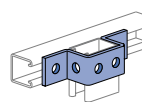
A3347-Pg 213



A4047-Pg 213



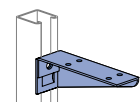
A5047-Pg 213



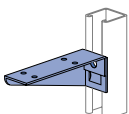
A5043-Pg 213



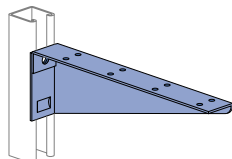
A2608-Pg 213



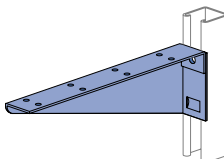
A2491 R-Pg 214



A2491 L-Pg 214



A2494 R-Pg 214



A2494 L-Pg 214

1 1/8" Channel

Teleslur System

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

1 1/4" Framing System

1 3/16" Framing System

Fiberglass System

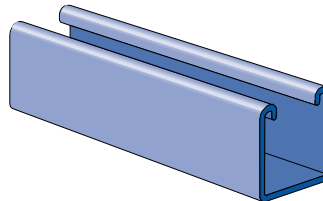
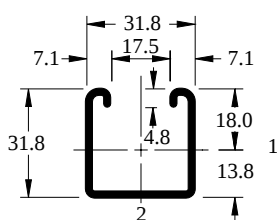
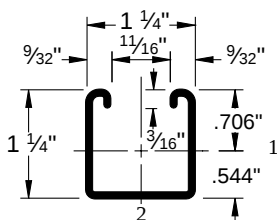
Special Metals

PrimeAngle System

Product Index

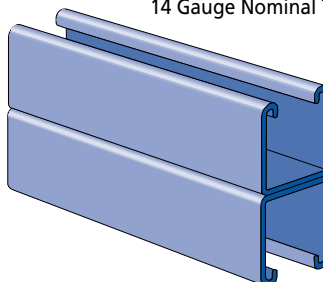
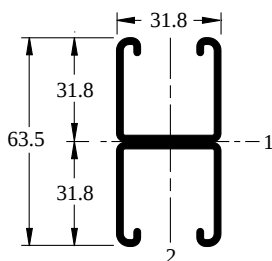
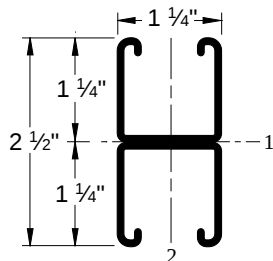


A1000 – 1 1/4" x 1 1/4"



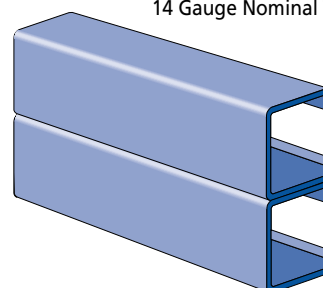
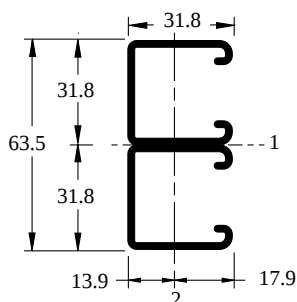
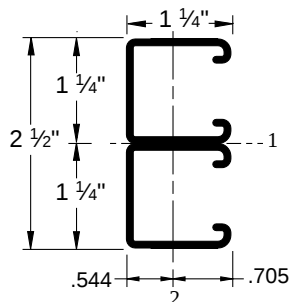
Wt/100 Ft: 104 Lbs(155 kg/100m)
Allowable Moment 2,160 In-Lbs (240 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)

A1001 – 1 1/4" x 2 1/2"



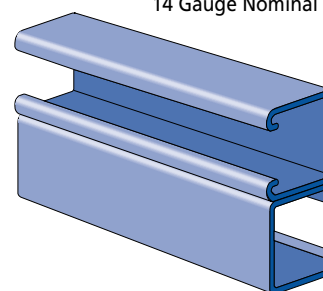
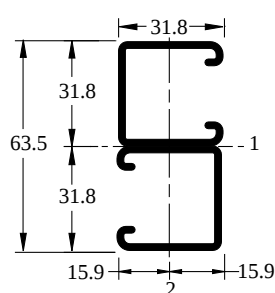
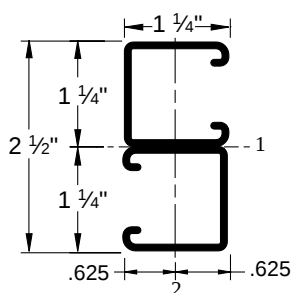
Wt/100 Ft: 208 Lbs (310 kg/100m)
Allowable Moment 6,090 In-Lbs (690 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)

A1001A – 1 1/4" x 2 1/2"



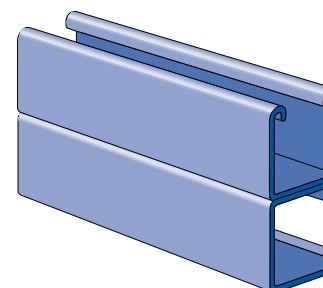
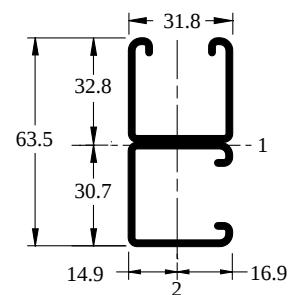
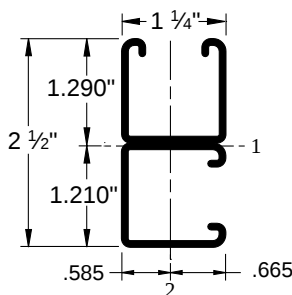
Wt/100 Ft: 208 Lbs (310 kg/100m)
Allowable Moment 7,920 In-Lbs (895 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)

A1001B – 1 1/4" x 2 1/2"



Wt/100 Ft: 208 Lbs (310 kg/100m)
Allowable Moment 7,920 In-Lbs (895 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)

A1001C – 1 1/4" x 2 1/2"



Wt/100 Ft: 208 Lbs (310 kg/100m)
Allowable Moment 6,770 In-Lbs (765 N•m)
14 Gauge Nominal Thickness .075" (1.9mm)

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

BEAM LOADING – A1000

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Defl.		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	720	0.07	720	720	670
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	0.88	110	80	50
96	180	1.15	80	60	40
108	160	1.46	70	50	30
120	140	1.80	50	40	30

BEAM LOADING – A1001

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Defl.		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,400 *	0.04	1,400 *	1,400 *	1,400 *
36	1,350	0.09	1,350	1,350	1,350
48	1,010	0.16	1,010	1,010	830
60	810	0.26	810	790	530
72	680	0.37	680	550	370
84	580	0.50	540	410	270
96	510	0.65	410	310	210
108	450	0.83	330	250	160
120	410	1.02	260	200	130

COLUMN LOADING – A1000

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	1,790	5,390	4,880	4,270	3,750
36	1,550	4,340	3,750	3,110	2,580
48	1,320	3,520	2,930	2,300	1,860
60	1,120	2,880	2,300	1,770	1,400
72	960	2,360	1,860	1,400	1,080
84	830	1,980	1,530	1,130	**
96	720	1,680	1,280	**	**
108	630	1,450	1,080	**	**

COLUMN LOADING – A1001

Unbraced Height In	Maximum Allowable Load at Slot Face	Maximum Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,410	12,730	12,170	11,450	10,790
36	3,220	11,530	10,790	9,980	9,170
48	3,030	10,500	9,750	8,270	6,510
60	2,780	9,700	8,270	6,090	4,270
72	2,480	8,490	6,510	4,270	2,970
84	2,150	7,050	4,910	3,140	2,180
96	1,860	5,680	3,760	2,400	**
108	1,620	4,500	2,970	**	**
120	1,420	3,640	2,400	**	**

ELEMENTS OF SECTION
A1000/A1001

Parameter	A1000	A1001
Area of Section	0.305 In ²	0.610 In ²
Axis 1-1		
Moment of Inertia (I)	0.061 In ⁴	0.303 In ⁴
Section Modulus (S)	0.086 In ³	0.242 In ³
Radius of Gyration (r)	0.447 In	0.705 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.

** $KL/r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.



BEAM LOADING – A1000 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	332	2	332	332	312
750	266	3	266	266	200
1,000	199	5	199	169	112
1,250	160	8	144	108	72
1,500	133	11	100	75	50
1,750	114	15	73	55	37
2,000	100	20	56	42	28
2,500	80	31	36	27	18
3,000	67	44	25	19	13

BEAM LOADING – A1001 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	635 *	1	635 *	635 *	635 *
750	635 *	2	635	635	635
1,000	561	3	561	561	558
1,250	449	4	449	449	357
1,500	374	6	374	372	248
1,750	321	9	321	273	182
2,000	281	11	279	209	140
2,500	224	17	179	134	89
3,000	187	25	124	93	62

COLUMN LOADING – A1000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Max. Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	818	2,463	2,231	1,956	1,722
750	762	2,212	1,956	1,669	1,433
1,000	672	1,854	1,586	1,296	1,061
1,250	591	1,566	1,296	1,013	818
1,500	516	1,329	1,061	818	648
1,750	455	1,126	888	673	523
2,000	402	968	755	561	**
2,500	318	740	561	**	**

COLUMN LOADING – A1001 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Max. Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,549	5,791	5,541	5,217	4,922
750	1,507	5,521	5,217	4,854	4,553
1,000	1,435	5,090	4,747	4,385	3,814
1,250	1,366	4,721	4,385	3,647	2,837
1,500	1,272	4,424	3,814	2,837	2,001
1,750	1,160	4,023	3,154	2,117	1,470
2,000	1,042	3,481	2,533	1,621	1,126
2,500	822	2,455	1,621	1,037	**
2,750	734	2,029	1,340	**	**

ELEMENTS OF SECTION A1000/A1001 (METRIC)

Parameter	A1000	A1001
Area of Section	1.97 cm ²	3.94 cm ²
Axis 1-1		
Moment of Inertia (I)	2.5 cm ⁴	12.6 cm ⁴
Section Modulus (S)	1.41 cm ³	3.97 cm ³
Radius of Gyration (r)	1.1 cm	1.8 cm
Axis 2-2		
Moment of Inertia (I)	3.2 cm ⁴	6.5 cm ⁴
Section Modulus (S)	2.05 cm ³	4.10 cm ³
Radius of Gyration (r)	1.3 cm	1.3 cm

Notes:

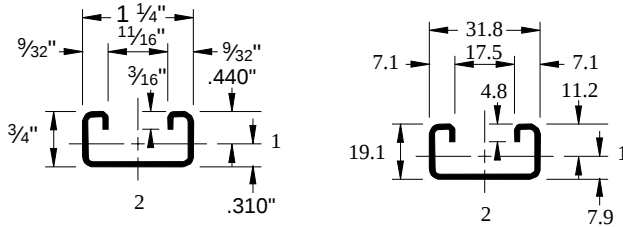
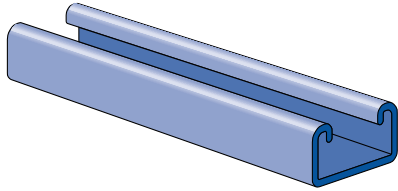
* Load limited by spot weld shear.

** $K L / r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.

A3300 – 1 1/4" x 3/4"

Wt/100 Ft: 78 Lbs (116 kg/100m)
 Allowable Moment 960 In-Lbs (110 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

**BEAM LOADING – A3300**

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180	Span/240	Span/360
24	320	0.11	320	280	190
36	210	0.26	170	120	80
48	160	0.46	90	70	50
60	130	0.71	60	40	30
72	110	1.03	40	30	20
84	90	1.40	30	20	20
96	80	1.83	20	20	10

COLUMN LOADING – A3300

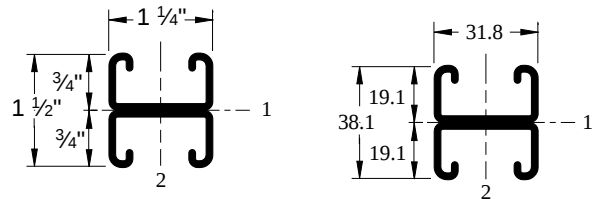
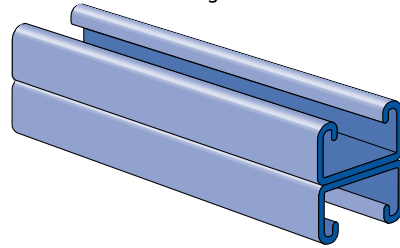
Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65	K = 0.80	K = 1.0	K = 1.2
24	1,120	3,570	2,900	2,040	1,420
36	760	2,150	1,420	910	630
48	520	1,210	800	510	**
60	380	770	510	**	**

**ELEMENTS OF SECTION
A3300/A3301**

Parameter	A3300	A3301
Area of Section	0.230 In ²	0.460 In ²
Axis 1-1		
Moment of Inertia (I)	0.017 In ⁴	0.078 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)	0.084 In ³	0.167 In ³
Radius of Gyration (r)	0.477 In	0.477 In

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)

**BEAM LOADING – A3301**

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180	Span/240	Span/360
24	840 *	0.07	840 *	840 *	840 *
36	580	0.15	580	570	380
48	430	0.27	430	320	210
60	350	0.42	270	200	140
72	290	0.61	190	140	90
84	250	0.83	140	100	70
96	220	1.08	110	80	50

COLUMN LOADING – A3301

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65	K = 0.80	K = 1.0	K = 1.2
24	2,380	9,580	9,300	8,740	7,980
36	2,150	8,830	7,980	6,750	5,510
48	1,870	7,580	6,340	4,710	3,320
60	1,580	6,230	4,710	3,060	2,130
72	1,320	4,910	3,320	2,130	**
84	1,100	3,700	2,440	**	**
96	930	2,830	1,870	**	**

Notes:

* Load limited by spot weld shear.

** $KL/r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.



BEAM LOADING – A3300 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	147	3	147	131	87
750	118	4	111	84	56
1,000	88	8	63	47	31
1,250	71	12	40	30	20
1,500	59	18	28	21	14
1,750	50	24	20	15	10
2,000	44	31	16	12	8

BEAM LOADING – A3301 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	381 *	2	381 *	381 *	381 *
750	318	3	318	318	255
1,000	239	5	239	216	144
1,250	191	7	*380	138	92
1,500	159	10	128	96	64
1,750	136	14	94	70	47
2,000	119	18	72	54	36

COLUMN LOADING – A3300 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face		Max. Column Load Applied at C.G.			
	kg	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	513		1,641	1,340	957	665
750	431		1,315	957	613	426
1,000	309		816	539	345	239
1,250	229		522	345	221	**

COLUMN LOADING – A3301 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face		Max. Column Load Applied at C.G.			
	kg	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,082		4,353	4,229	3,988	3,653
750	1,035		4,220	3,988	3,565	3,108
1,000	939		3,853	3,415	2,798	2,192
1,250	834		3,377	2,798	2,049	1,434
1,500	729		2,875	2,192	1,434	996
1,750	626		2,377	1,646	1,053	**
2,000	539		1,909	1,260	806	**

ELEMENTS OF SECTION A3300/A3301 (METRIC)

Parameter	A3300	A3301
Area of Section	1.48 cm ²	2.97 cm ²
Axis 1-1		
Moment of Inertia (I)	0.7 cm ⁴	3.2 cm ⁴
Section Modulus (S)	0.62 cm ³	1.69 cm ³
Radius of Gyration (r)	0.7 cm	1.0 cm
Axis 2-2		
Moment of Inertia (I)	2.2 cm ⁴	4.3 cm ⁴
Section Modulus (S)	1.38 cm ³	2.74 cm ³
Radius of Gyration (r)	1.2 cm	1.2 cm

Notes:

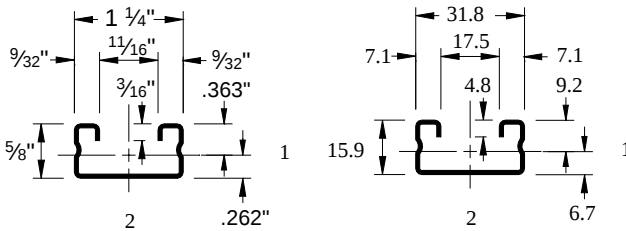
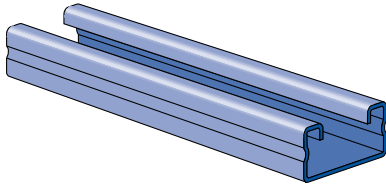
* Load limited by spot weld shear.

** $KL/r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.

A4000 – 1 1/4" x 5/8"

Wt/100 Ft: 45 Lbs (67 kg/100m)
 Allowable Moment 480 In-Lbs (50 N•m)
 14 Gauge Nominal Thickness .040" (1.0mm)

**BEAM LOADING – A4000**

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	160	0.14	150	110	80
36	110	0.31	70	50	30
48	80	0.56	40	30	20
60	60	0.87	20	20	10
72	50	1.25	20	10	10

COLUMN LOADING – A4000

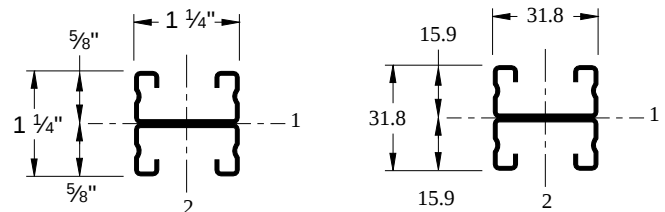
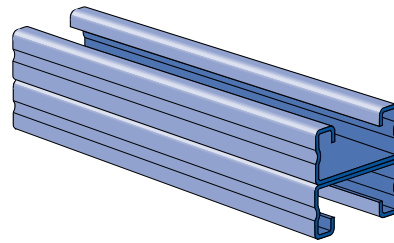
Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	660	2,040	1,710	1,280	910
36	450	1,330	910	580	400
48	310	770	510	**	**

**ELEMENTS OF SECTION
A4000/A4001**

Parameter	A4000	A4001
Area of Section	0.123 In ²	0.245 In ²
Axis 1-1		
Moment of Inertia (I)	0.007 In ⁴	0.031 In ⁴
Section Modulus (S)	0.019 In ³	0.049 In ³
Radius of Gyration (r)	0.239 In	0.354 In
Axis 2-2		
Moment of Inertia (I)	0.028 In ⁴	0.056 In ⁴
Section Modulus (S)	0.045 In ³	0.089 In ³
Radius of Gyration (r)	0.477 In	0.477 In

A4001– 1 1/4" x 1 1/4"

Wt/100 Ft: 90 Lbs (134 kg/100m)
 Allowable Moment 1,230 In-Lbs (140 N•m)
 14 Gauge Nominal Thickness .040" (1.0mm)

**BEAM LOADING – A4001**

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	In	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	330 *	0.08	330 *	330 *	330 *
36	270	0.18	270	230	150
48	210	0.32	170	130	80
60	160	0.51	110	80	50
72	140	0.73	80	60	40
84	120	0.99	60	40	30

COLUMN LOADING – A4001

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
24	1,260	4,770	4,340	3,720	3,080
36	1,050	3,800	3,080	2,170	1,510
48	830	2,770	1,910	1,220	850
60	640	1,850	1,220	780	**
72	510	1,280	850	**	**
84	410	940	620	**	**

Notes:

* Load limited by spot weld shear.

** $K L / r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.



BEAM LOADING – A4000 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	73	3	72	54	36
750	59	5	46	34	23
1,000	44	9	26	19	13
1,250	35	15	17	12	8
1,500	29	21	12	9	6

BEAM LOADING – A4001 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	150 *	2	150 *	150 *	150 *
750	150 *	3	150 *	150 *	102
1,000	114	6	114	86	57
1,250	91	9	150	55	37
1,500	76	12	51	38	25
1,750	65	17	37	28	19

COLUMN LOADING – A4000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Max. Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	304	936	790	597	425
750	256	778	597	392	272
1,000	184	521	345	221	153

COLUMN LOADING – A4001 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Max. Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	575	2,175	1,987	1,711	1,424
750	531	1,970	1,711	1,354	1,017
1,000	450	1,591	1,238	824	572
1,250	365	1,209	824	527	366
1,500	297	866	572	366	**
1,750	244	637	420	269	**

ELEMENTS OF SECTION A4000/A4001 (METRIC)

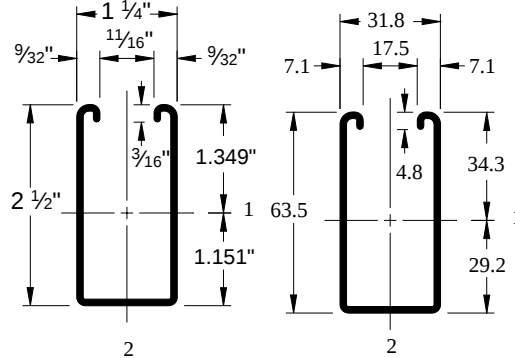
Parameter	A4000	A4001
Area of Section	0.79 cm ²	1.58 cm ²
Axis 1-1		
Moment of Inertia (I)	0.3 cm ⁴	1.3 cm ⁴
Section Modulus (S)	0.31 cm ³	0.80 cm ³
Radius of Gyration (r)	0.6 cm	0.9 cm
Axis 2-2		
Moment of Inertia (I)	1.2 cm ⁴	2.3 cm ⁴
Section Modulus (S)	0.74 cm ³	1.46 cm ³
Radius of Gyration (r)	1.2 cm	1.2 cm

Notes:

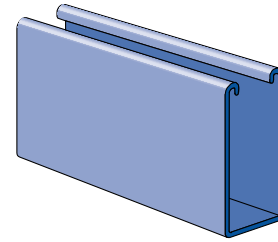
* Load limited by spot weld shear.

** $K_L/r_1 > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.

A5000 – 1¼" x 2½"

Wt/100 Ft: 167 Lbs (249 kg/100m)
 Allowable Moment 6,690 In-Lbs (760 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

**BEAM LOADING – A5000**

Span In	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	Lbs	Lbs	Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	2,230	0.04	2,230	2,230	2,230
36	1,490	0.09	1,490	1,490	1,490
48	1,120	0.15	1,120	1,120	980
60	890	0.24	890	890	630
72	740	0.34	740	650	440
84	640	0.46	640	480	320
96	560	0.61	490	370	250
108	500	0.77	390	290	190
120	450	0.95	310	240	160

BEAM LOADING – A5000 (METRIC)

Span mm	Max Allowable Uniform Load	Defl. at Uniform Load	Uniform Loading at Deflection		
	kg	mm	Span/180 kg	Span/240 kg	Span/360 kg
600	1028	1	1028	1028	1028
750	822	1	822	822	822
1,000	617	3	617	617	617
1,250	493	4	493	493	423
1,500	411	6	411	411	294
1,750	352	8	352	324	216
2,000	308	10	308	248	165
2,500	247	16	212	159	106
3,000	206	23	147	110	74

COLUMN LOADING – A5000

Unbraced Height In	Maximum Allowable Load at Slot Face	Max. Column Load Applied at C.G.			
	Lbs	K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,820	7,970	6,700	5,130	3,810
36	2,120	5,310	3,810	2,650	2,020
48	1,590	3,340	2,400	1,740	1,370
60	1,270	2,350	1,740	1,300	1,050
72	1,060	1,800	1,370	1,050	860
84	910	1,460	1,140	890	730
96	800	1,240	980	770	**
108	720	1,080	860	**	**
120	660	960	770	**	**

COLUMN LOADING – A5000 (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face	Max. Column Load Applied at C.G.			
	kg	K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
600	1,286	3,653	3,087	2,378	1,777
750	1,140	3,040	2,378	1,659	1,234
1,000	883	2,113	1,491	1,049	806
1,250	705	1,453	1,049	762	602
1,500	585	1,090	806	602	485
1,750	501	869	656	501	410
2,000	439	723	557	432	356
2,500	357	546	432	341	**
2,750	327	489	390	**	**

ELEM. OF SECTION A5000

Parameter	A5000
Area of Section	0.492 In ²
Axis 1-1	
Moment of Inertia (I)	0.359 In ⁴
Section Modulus (S)	0.266 In ³
Radius of Gyration (r)	0.854 In
Axis 2-2	
Moment of Inertia (I)	0.143 In ⁴
Section Modulus (S)	0.229 In ³
Radius of Gyration (r)	0.539 In

ELEM. OF SECTION A5000 (METRIC)

Parameter	A5000
Area of Section	3.17 cm ²
Axis 1-1	
Moment of Inertia (I)	14.9 cm ⁴
Section Modulus (S)	4.36 cm ³
Radius of Gyration (r)	2.2 cm
Axis 2-2	
Moment of Inertia (I)	6.0 cm ⁴
Section Modulus (S)	3.75 cm ³
Radius of Gyration (r)	1.4 cm

Notes:

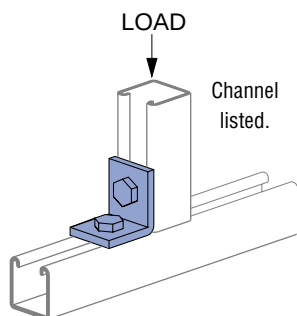
* Load limited by spot weld shear.

** $K L_r > 200$

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- 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.

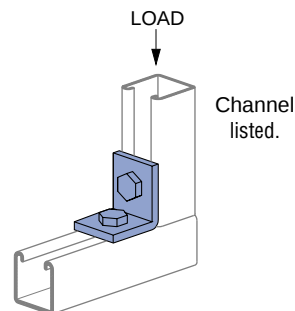


LOAD DATA FOR UNISTRUT SECTIONS SUBJECT TO CRUSHING LOADS



Allowable Load at Center of Member	
Channel	Lbs (kg)
A1000	3,000 1,361
A3300	3,000 1,361
A4000	1,400 635
A5000	2,500 1,134

Safety Factor of 2½



Allowable Load at End of member	
Channel	Lbs (kg)
A1000	2000 907
A3300	2000 907
A4000	1000 454
A5000	1800 816

Safety Factor of 2½

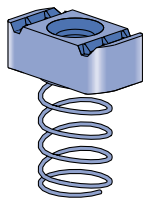
Maximum Allowable Pull-Out And Slip Loads

Nut Size/ Thread	Channel	Gauge	Max. Allowable Resistance		
			Pull-Out Lbs (kg)	to Slip Lbs (kg)	Torque Ft-Lbs (N•m)
¾" -16	A1000	14	900 408	500 227	19 26
5/16" -18	A3300	14	900 408	500 227	11 15
¼" -20	A5000	14	900 408	500 227	6 8
¾" -16	A4000	19	300 136	400 181	19 26

Nut design loads include a minimum safety factor of 3.

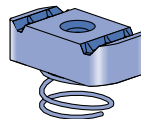
Nut Selections Chart

Channel Nut Part Number	Nut Size – Thread In. - Thread	Use with Channel			
		A1000	A3300	A4000	A5000
A1006-1420	¼" – 20	■	-	-	-
A1007	5/16" – 18	■	-	-	-
A1008	¾" – 16	■	-	-	-
A3006-1420	¼" – 20	■	■	■	■
A3007	5/16" – 18	■	■	■	■
A3008	¾" – 16	■	■	■	■
A3016-0832	#8 – 32	■	■	■	■
A3016-1024	#10 – 24	■	■	■	■
A3016-1032	#10 – 32	■	■	■	■
A3016-1420	¼" – 20	■	■	■	■
A4006-1420	¼" – 20	-	■	■	-
A4007	5/16" – 18	-	■	■	-
A4008	¾" – 16	-	■	■	-
A5006-1420	¼" – 20	-	-	-	■
A5007	5/16" – 18	-	-	-	■
A5008	¾" – 16	-	-	-	■

A1006-1420, A1007, A1008
Channel Nuts with Springs


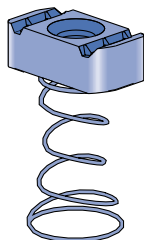
Part Number	Thread Size In	Wt/100 pcs Lbs (kg)
A1006-1420	¼"-20	6 2.7
A1007	⅝"-18	6 2.7
A1008	⅜"-16	6 2.7

Note: Use with A1000 channel.

A4006-1420, A4007, A4008
Channel Nuts with Springs


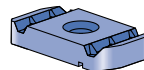
Part Number	Thread Size In	Wt/100 pcs Lbs (kg)
A4006-1420	¼"-20	5 2.3
A4007	⅝"-18	5 2.3
A4008	⅜"-16	5 2.3

Note: Use with A3300 & A4000 channels.

A5006-1420, A5007, A5008
Channel Nuts with Springs


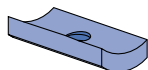
Part Number	Thread Size In	Wt/100 pcs Lbs (kg)
A5006-1420	¼"-20	6 2.7
A5007	⅝"-18	6 2.7
A5008	⅜"-16	6 2.7

Note: Use with A5000 channel.

A3006-1420, A3007, A3008
Channel Nuts without Springs


Part Number	Thread Size In	Wt/100 pcs Lbs (kg)
A3006-1420	¼"-20	5 2.3
A3007	⅝"-18	5 2.3
A3008	⅜"-16	5 2.3

Note: Use with A1000, A3300, A4000 & A5000 channels.

A3016-0832 thru A3016-1420
Channel Nuts without Springs


Part Number	Thread Size In	Wt/100 pcs Lbs (kg)
A3016-0832	#8 - 32	1 0.5
A3016-1024	#10 - 24	1 0.5
A3016-1032	#10 - 32	1 0.5
A3016-1420	¼" - 20	1 0.5

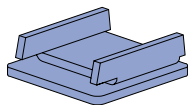
Note: Use with A1000, A3300, A4000 & A5000 channels.



A1280

End Cap

Wt/100 pcs: 7 Lbs (3.2 kg)

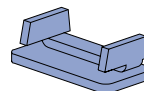


Material: .075" (1.9)
Note: Use with A1000 channel.

A4280

End Cap

Wt/100 pcs: 3 Lbs (1.4 kg)

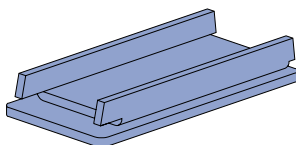


Material: .075" (1.9)
Note: Use with A4000 channel.

A5280

End Cap

Wt/100 pcs: 14 Lbs (6.4 kg)

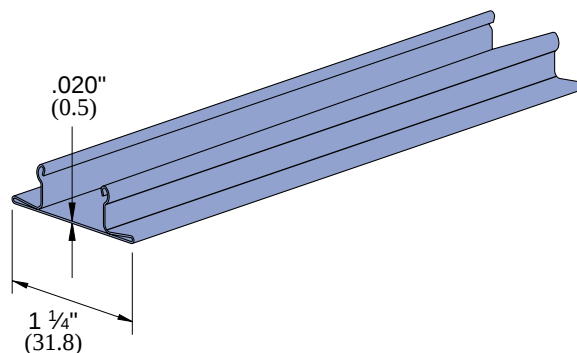


Material: .075" (1.9)
Note: Use with A5000 channel.

A1184

Closure Strip

Wt/100 Ft: 21 Lbs (31.3 kg/100M)

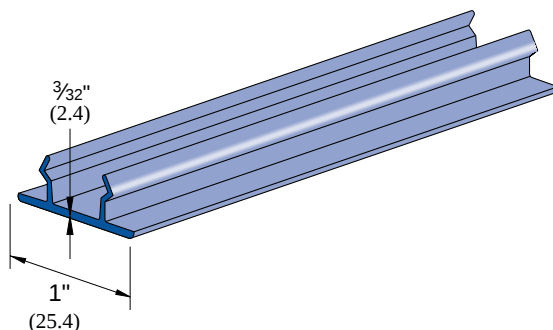


Standard Length 10 Feet.
Finish: Perma-Green II (GR), Plain (PL).

A1184P

Closure Strip

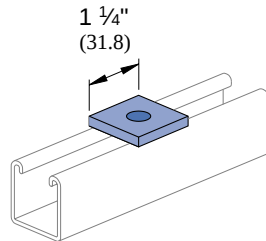
Wt/100 Ft: 21 Lbs (31.3 kg/100M)



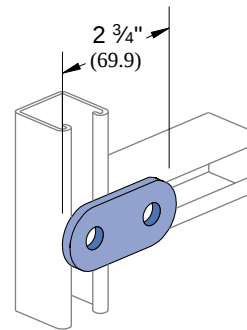
Standard length: 10 Ft.
Material: Paintable PVC.
Color: Green, Grey.

A1063

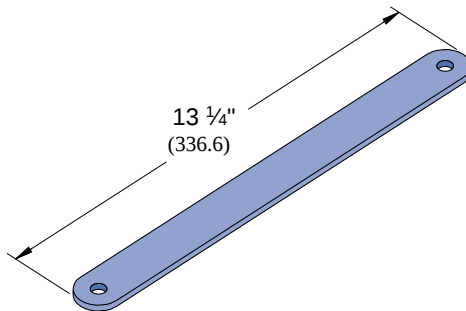
Wt/100 pcs: 8 Lbs (3.6 kg)


A1065

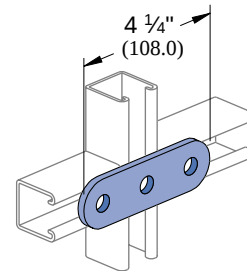
Wt/100 pcs: 17 Lbs (7.7 kg)


A1191

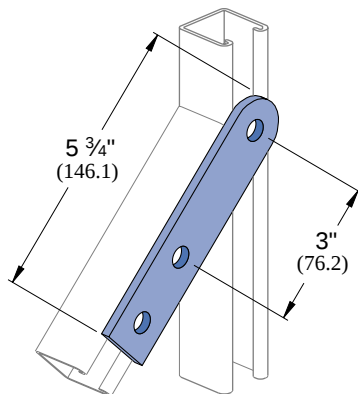
Wt/100 pcs: 87 Lbs (39.5 kg)


A1066

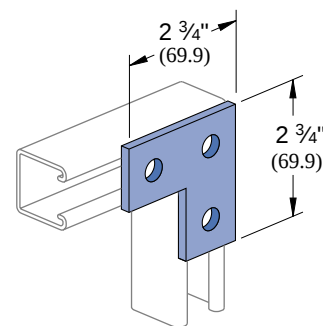
Wt/100 pcs: 26 Lbs (11.8 kg)


A2324

Wt/100 pcs: 39 Lbs (17.7 kg)


A1036

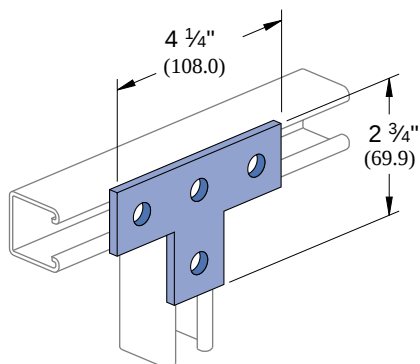
Wt/100 pcs: 27 Lbs (12.2 kg)


Standard Dimensions for 1 1/4" (32 mm) width series channel fittings *(Unless Otherwise Shown on Drawing)*
Hole Diameter: 13/32" (10.3mm); **Hole Spacing - From End:** 5/8" (15.9 mm); **Hole Spacing - On Center:** 1 1/2" (38.1 mm); **Width:** 1 1/4" (31.8mm); **Thickness:** 3/16" (4.8mm)



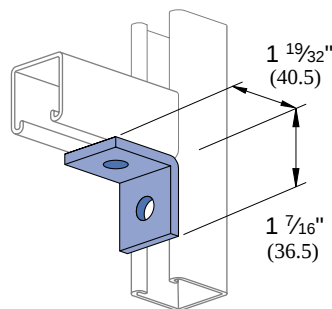
A1031

Wt/100 pcs: 34 Lbs (15.4 kg)



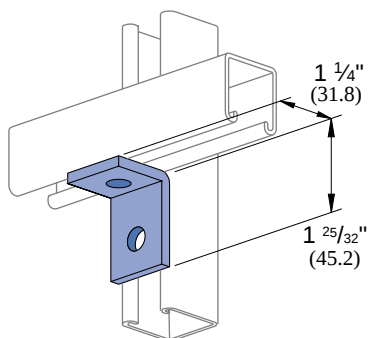
A1026

Wt/100 pcs: 17 Lbs (7.7 kg)



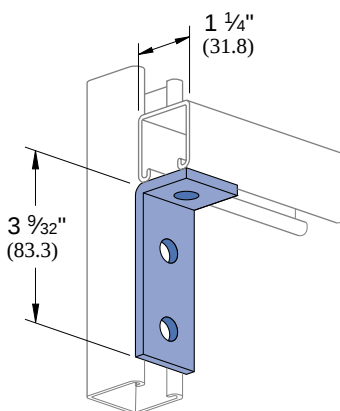
A1068

Wt/100 pcs: 17 Lbs (7.7 kg)



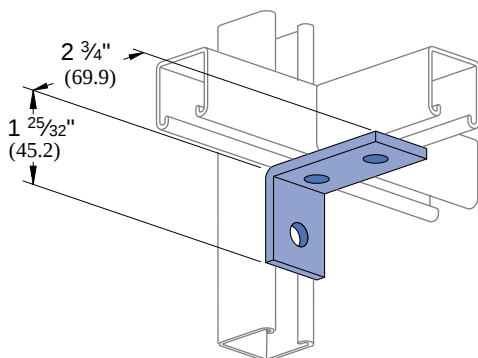
A1326

Wt/100 pcs: 27 Lbs (12.2 kg)



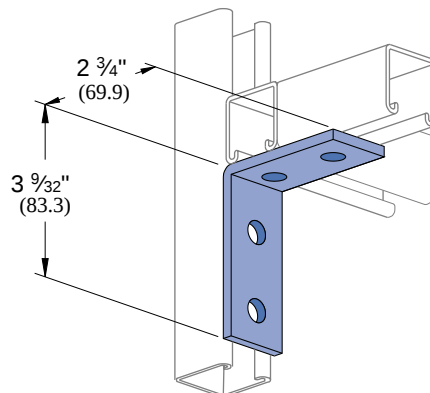
A1458

Wt/100 pcs: 27 Lbs (12.2 kg)



A1325

Wt/100 pcs: 38 Lbs (17.2 kg)

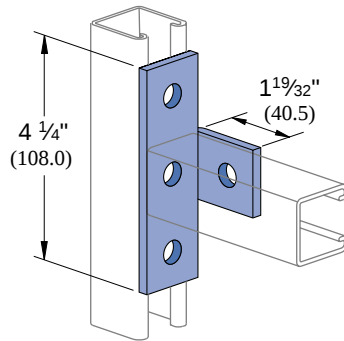


Standard Dimensions for 1 1/4" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

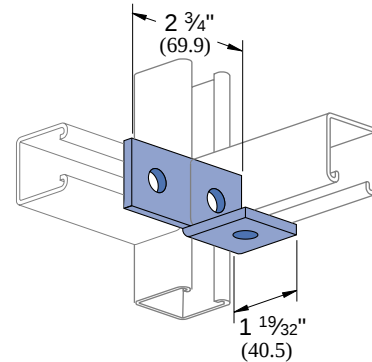
Hole Diameter: 13/32" (10.3mm); **Hole Spacing - From End:** 5/8" (15.9 mm); **Hole Spacing - On Center:** 1 1/2" (38.1 mm); **Width:** 1 1/4" (31.8mm); **Thickness:** 3/16" (4.8mm)

A1033

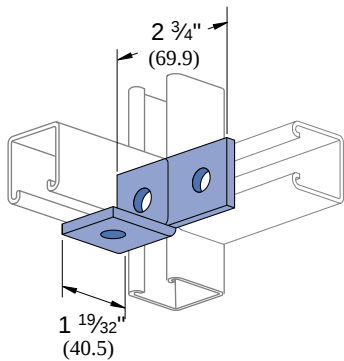
Wt/100 pcs: 34 Lbs (15.4 kg)


A1037

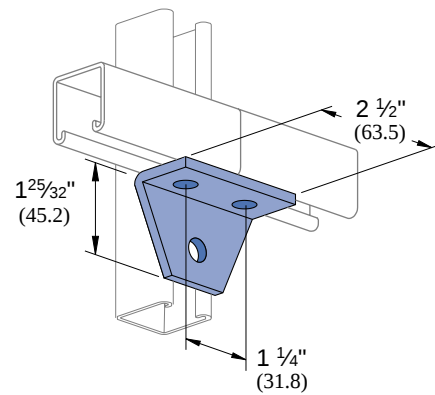
Wt/100 pcs: 30 Lbs (13.6 kg)


A1038

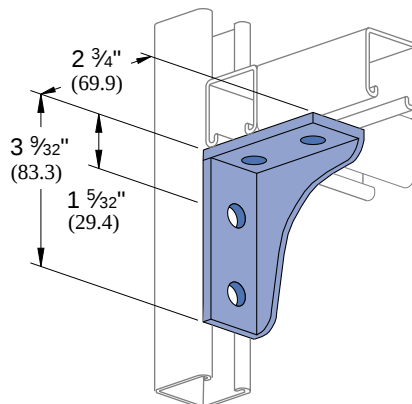
Wt/100 pcs: 30 Lbs (13.6 kg)


A1357

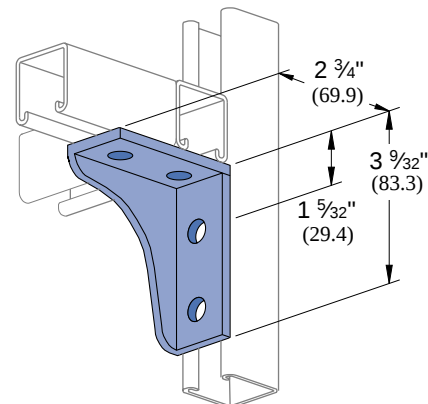
Wt/100 pcs: 30 Lbs (13.6 kg)


A1331

Wt/100 pcs: 75 Lbs (34.0 kg)


A1332

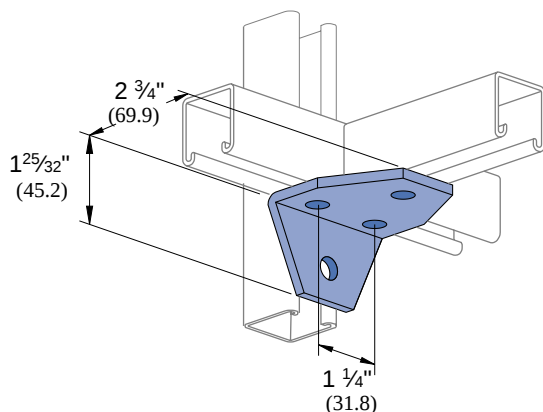
Wt/100 pcs: 75 Lbs (34.0 kg)


Standard Dimensions for 1 1/4" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 13/32" (10.3mm); **Hole Spacing - From End:** 5/8" (15.9 mm); **Hole Spacing - On Center:** 1 1/2" (38.1 mm); **Width:** 1 1/4" (31.8mm); **Thickness:** 3/16" (4.8mm)



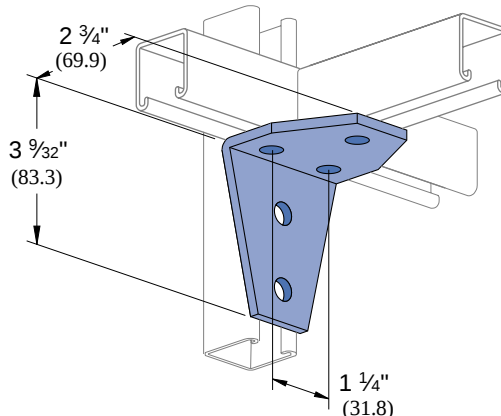
A1579

Wt/100 pcs: 44 Lbs (20.0 kg)



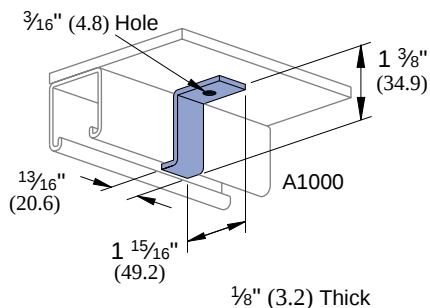
A2235

Wt/100 pcs: 59 Lbs (26.8 kg)



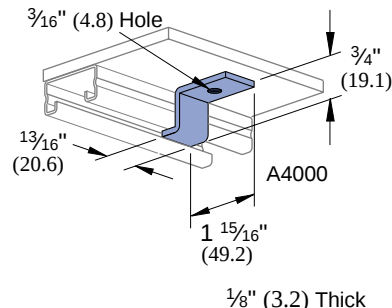
A2120

Wt/100 pcs: 9 Lbs (4.1 kg)



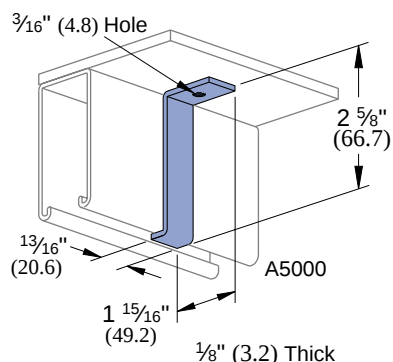
A4120

Wt/100 pcs: 7 Lbs (3.2 kg)



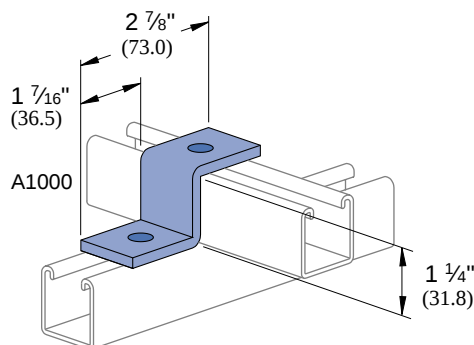
A5120

Wt/100 pcs: 13 Lbs (5.9 kg)



A1045

Wt/100 pcs: 25 Lbs (11.3 kg)

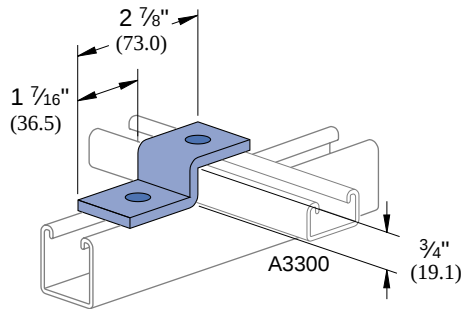


Standard Dimensions for 1 1/4" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10.3mm); **Hole Spacing - From End:** 5/8" (15.9 mm); **Hole Spacing - On Center:** 1 1/2" (38.1 mm); **Width:** 1 1/4" (31.8mm); **Thickness:** 3/16" (4.8mm)

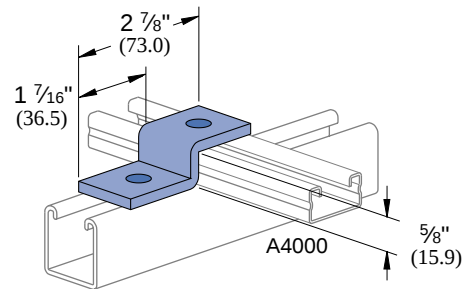
A3345

Wt/100 pcs: 23 Lbs (10.4 kg)



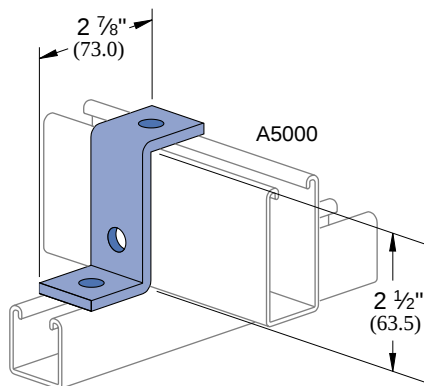
A4045

Wt/100 pcs: 21 Lbs (9.5 kg)



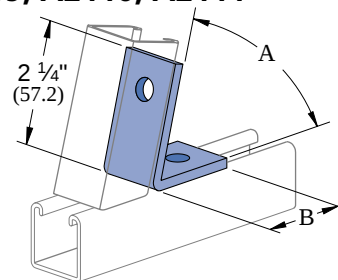
A5045

Wt/100 pcs: 33 Lbs (15.0 kg)



A2109, A2110, A2111

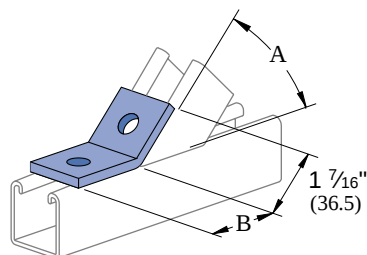
Wt/100 pcs: 23 Lbs (10.4 kg)



Part Number	A Degree (rad)	B In (mm)
A2109	52½° 0.92	1 ²⁵ / ₃₂ 45.2
A2110	45° 0.79	1¾ 44.5
A2111	37½° 0.65	1¾ 44.5

A2125, A2126, A2127

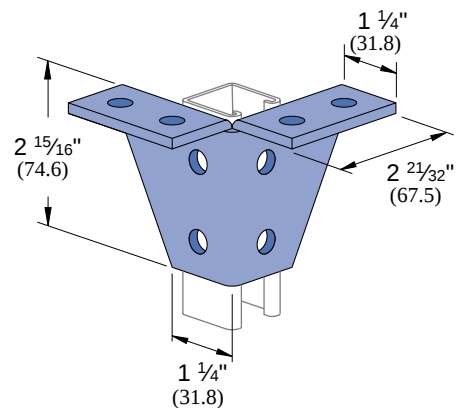
Wt/100 pcs: 17 Lbs (7.7 kg)



Part Number	A Degree (rad)	B In (mm)
A2125	52½° 0.92	1¼ 31.8
A2126	45° 0.79	1¼ 31.8
A2127	37½° 0.65	1 ⁹ / ₃₂ 32.5

A2084

Wt/100 pcs: 90 Lbs (40.8 kg)

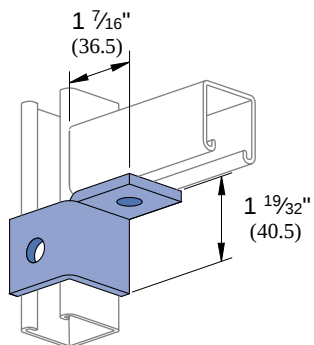


Standard Dimensions for 1¼" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 1⁹/₃₂" (10.3mm); Hole Spacing - From End: 5/8" (15.9 mm); Hole Spacing - On Center: 1½" (38.1 mm); Width: 1¼" (31.8mm); Thickness: 3/16" (4.8mm)

A2341 R-L

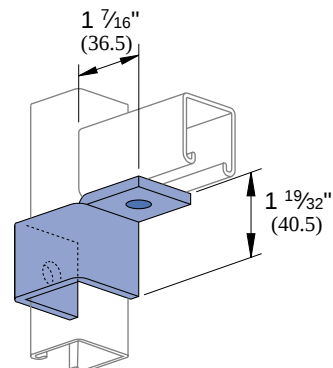
Wt/100 pcs: 26 Lbs (11.8 kg)



R-As shown
L-Opposite hand

A2472 R-L

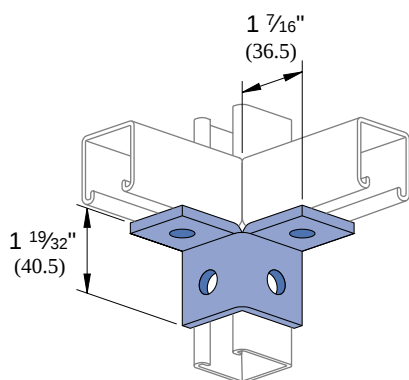
Wt/100 pcs: 33 Lbs (15.0 kg)



R-As shown
L-Opposite hand

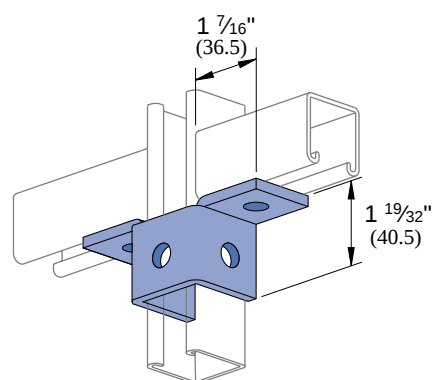
A2223

Wt/100 pcs: 34 Lbs (15.4 kg)



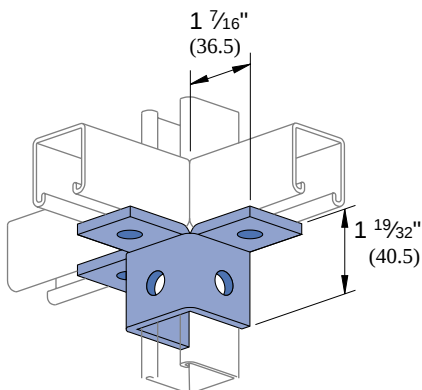
A2345

Wt/100 pcs: 41 Lbs (18.6 kg)



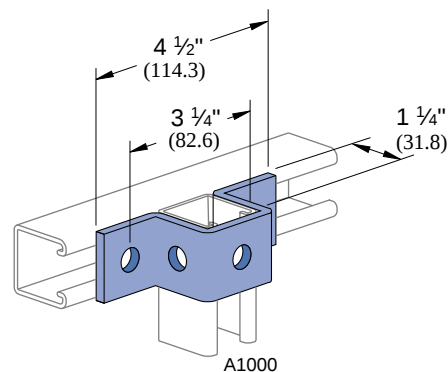
A2227

Wt/100 pcs: 52 Lbs (23.6 kg)



A1047

Wt/100 pcs: 43 Lbs (19.5 kg)

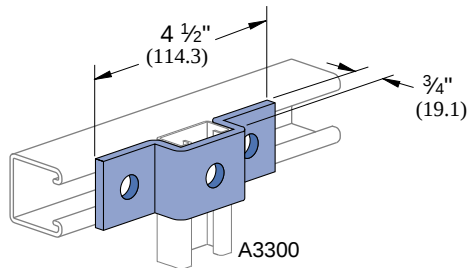


Standard Dimensions for 1 1/4" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10.3mm); **Hole Spacing - From End:** 5/8" (15.9 mm); **Hole Spacing - On Center:** 1 1/2" (38.1 mm); **Width:** 1 1/4" (31.8mm); **Thickness:** 3/16" (4.8mm)

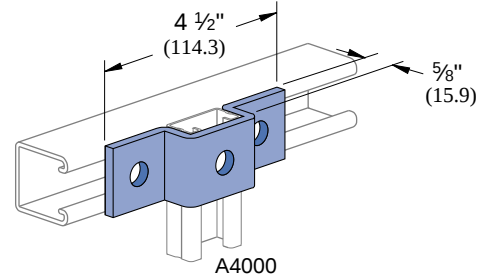
A3347

Wt/100 pcs: 37 Lbs (16.8 kg)



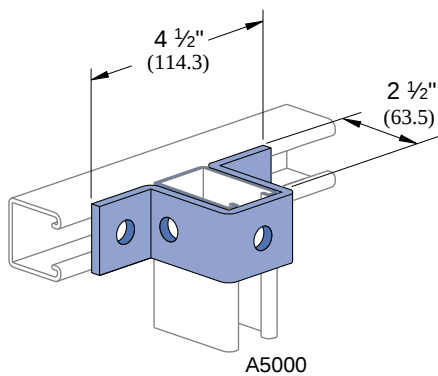
A4047

Wt/100 pcs: 34 Lbs (15.4 kg)



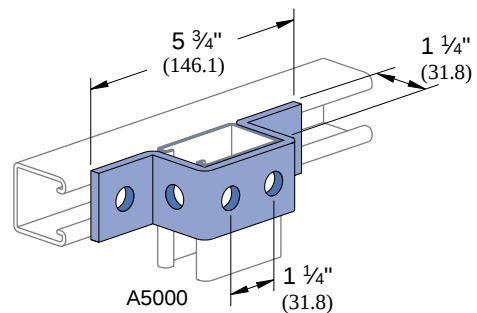
A5047

Wt/100 pcs: 58 Lbs (26.3 kg)



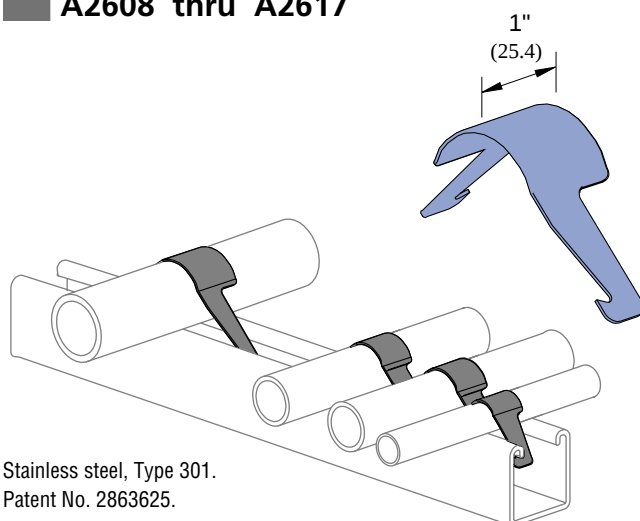
A5043

Wt/100 pcs: 50 Lbs (22.7 kg)



A2608 thru A2617

UNI-CLIP®



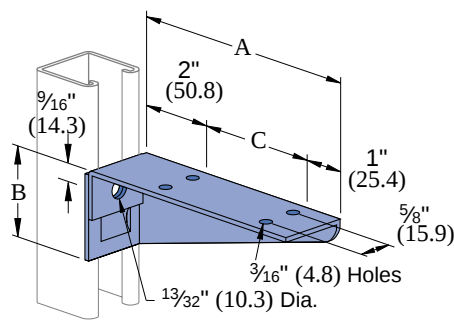
Stainless steel, Type 301.
Patent No. 2863625.

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	1.315 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

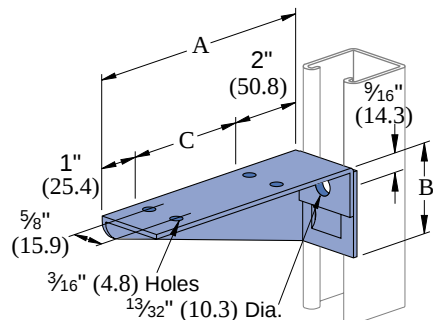
Standard Dimensions for 1 1/4" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10.3mm); Hole Spacing - From End: 5/8" (15.9 mm); Hole Spacing - On Center: 1 1/2" (38.1 mm); Width: 1 1/4" (31.8mm); Thickness: 3/16" (4.8mm)

A2491 R-L, A2492 R-L, A2493 R-L



Right



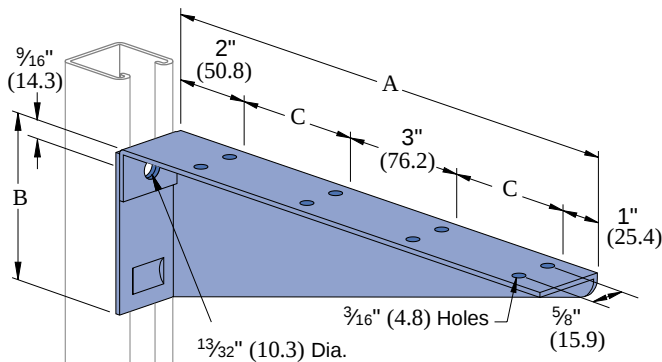
Left

Design Uniform Load (Channel Upright Listed)	
A1000	200 Lbs (.9 kN)
A4000	130 Lbs (.6 kN)
Safety Factor of 2½	

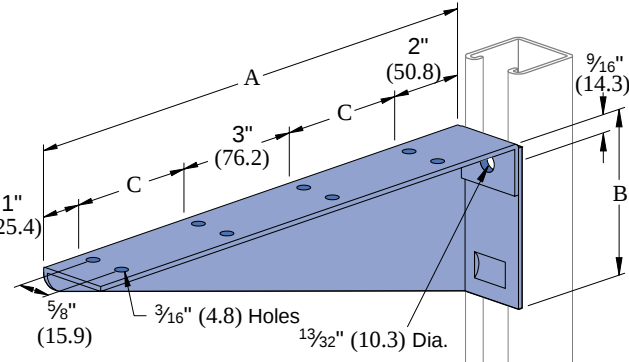
Material: 14 Gauge Steel.

Part Number	A In (mm)	B In (mm)	C In (mm)	Wt/100 pcs Lbs (kg)
A2491 R-L	6 152.4	2 50.8	3 76.2	38 17.2
A2492 R-L	8 203.2	2½ 63.5	5 127.0	56 25.4
A2493 R-L	10 254.0	3 76.2	7 177.8	73 33.1

A2494 R-L thru A2497 R-L



Right

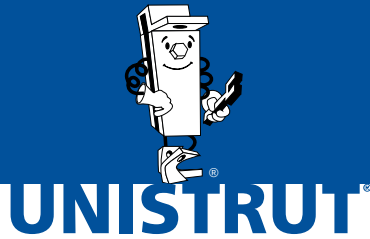


Left

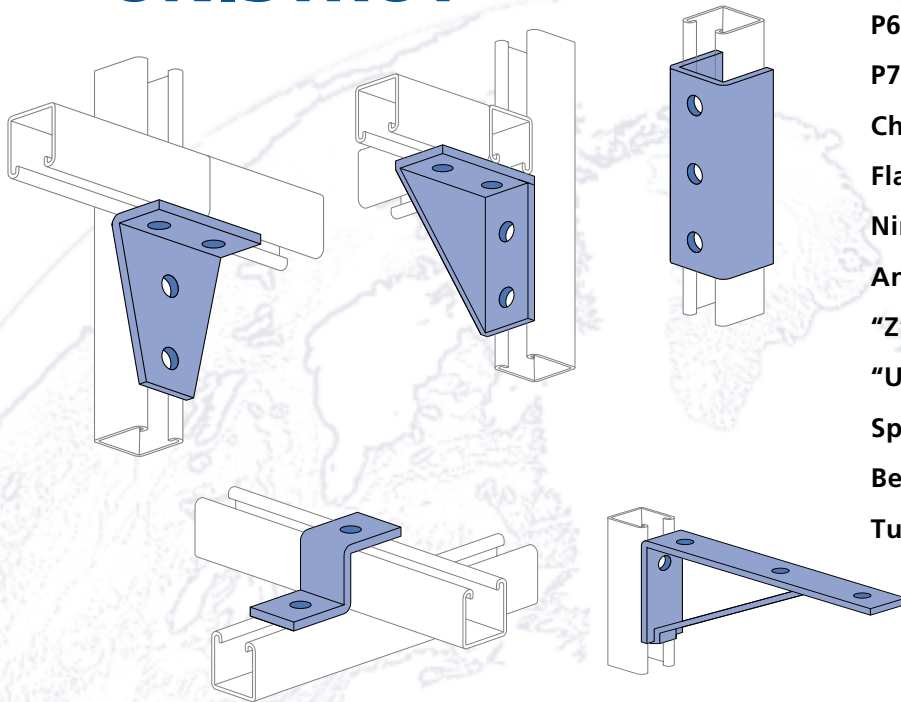
Design Uniform Load (Channel Upright Listed)	
A1000	200 Lbs (.9 kN)
A4000	130 Lbs (.6 kN)
Safety Factor of 2½	

Material: 14 Gauge Steel.

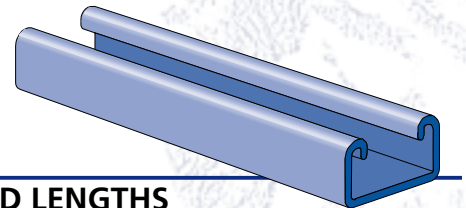
Part Number	A In (mm)	B In (mm)	C In (mm)	Wt/100 pcs Lbs (kg)
A2494 R-L	12 304.8	3½ 88.9	3 76.2	94 42.6
A2495 R-L	14 355.6	4 101.6	4 101.6	105 47.6
A2496 R-L	16 406.4	4½ 114.3	5 127.0	145 65.8
A2497 R-L	18 457.2	5 127.0	6 152.4	175 79.4



1³/₁₆" FRAMING SYSTEM



P6000 (19 Gauge)	218
P7000 (19 Gauge)	221
Channel Nuts and Closure Strips	223
Flat Plate Fittings	224
Ninety Degree Fittings	227
Angular Fittings	231
"Z" Shape Fittings	232
"U" Shape Fittings	233
Special Application Fittings	235
Beam Clamps	236
Tubing Clips	236



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 A570 GR 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 II (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 II, electrogalvanized (EG) with zinc electrolytically to commercial standards ASTM B653-G90 Type III SC1; or plain.

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 1³/₁₆" 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	FOOT LBS.	N·m
¹ / ₄ " 20	6	8

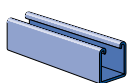
DIMENSIONS

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.

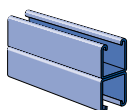


P6000 Series

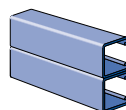
13/16" X 13/16"
19 Ga.



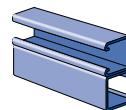
P6000 - Pg 218



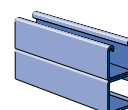
P6001 - Pg 218



P6001 A - Pg 218



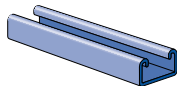
P6001 B - Pg 218



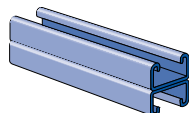
P6001 C - Pg 218

P7000 Series

13/16" X 13/32"
19 Ga.



P7000 - Pg 221



P7001 - Pg 221

Channel Nuts & Closures



P6000-0832 - Pg 223



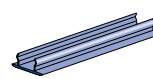
P7006-0832 - Pg 223



P6280 - Pg 223



P7280 - Pg 223

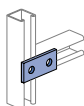


P6184P - Pg 223

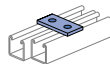
13/16" Series Fittings



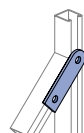
P6062 - Pg 224



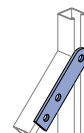
P6065 - Pg 224



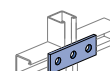
P6924 - Pg 224



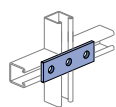
P7325 - Pg 224



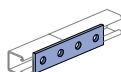
P7324 - Pg 224



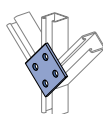
P6925 - Pg 224



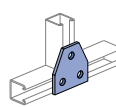
P6066 - Pg 225



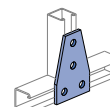
P6067 - Pg 225



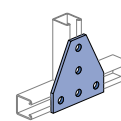
P6962 - Pg 225



P6356 A - Pg 225



P6358 A - Pg 225



P6726 A - Pg 225



P6334 - Pg 226



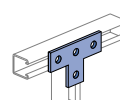
P6380 - Pg 226



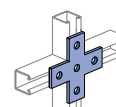
P6036 - Pg 226



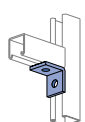
P6380 A - Pg 226



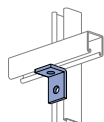
P6031 - Pg 226



P6028 - Pg 226



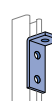
P6026 - Pg 227



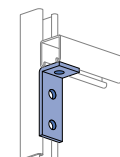
P6068 - Pg 227



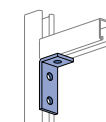
P6281 - Pg 227



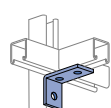
P6069 - Pg 227



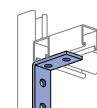
P6326 - Pg 227



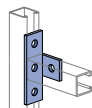
P6346 - Pg 227



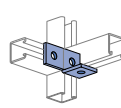
P6458 - Pg 228



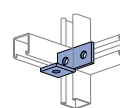
P6325 - Pg 228



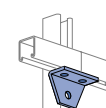
P6033 - Pg 228



P6037 - Pg 228

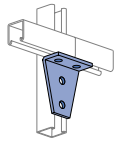


P6038 - Pg 228

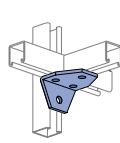


P6357 - Pg 228

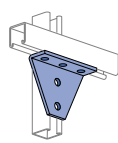
13/16" Series Fittings



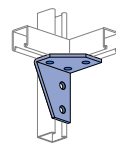
P6359-Pg 229



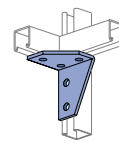
P6579-Pg 229



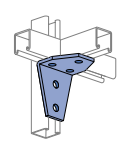
P6728-Pg 229



P6917-Pg 229



P6918-Pg 229



P7235-Pg 229



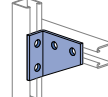
P6130-Pg 230



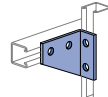
P6290-Pg 230



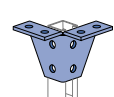
P6291-Pg 230



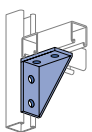
P6381-Pg 230



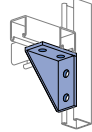
P6382-Pg 230



P6887-Pg 230



P6331-Pg 231



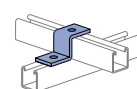
P6332-Pg 231



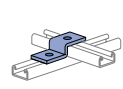
P6546-Pg 231



P6186-Pg 231



P6045-Pg 232



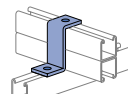
P7045-Pg 232



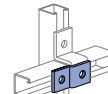
P6347-Pg 232



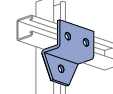
P7347-Pg 232



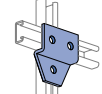
P6453-Pg 232



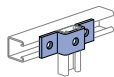
P6454-Pg 232



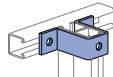
P6758-Pg 233



P7758-Pg 233



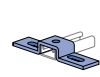
P6047-Pg 233



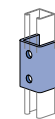
P6737-Pg 233



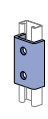
P6048-Pg 233



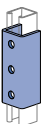
P7048-Pg 233



P6376-Pg 234



P7376-Pg 234



P6376 A-Pg 234



P7376 A-Pg 234



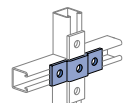
P6377-Pg 234



P7377-Pg 234



P6044-Pg 235



P6455-Pg 235



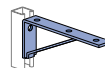
P6973-Pg 235



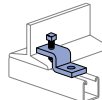
P6349-Pg 235



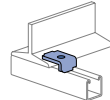
P6353-Pg 235



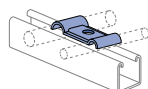
P6127-Pg 235



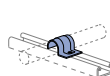
P6379 S-Pg 236



P6386-Pg 236



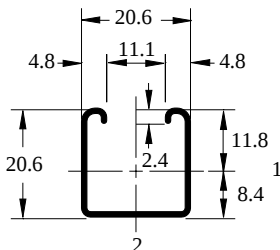
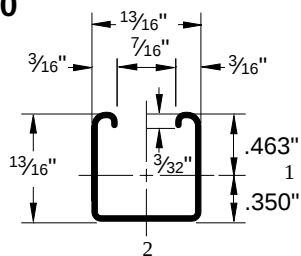
P6805-Pg 236



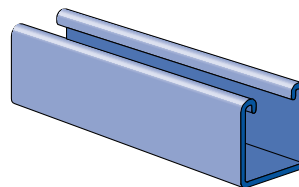
P7008-Pg 236



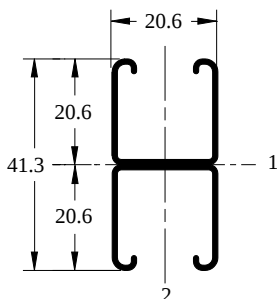
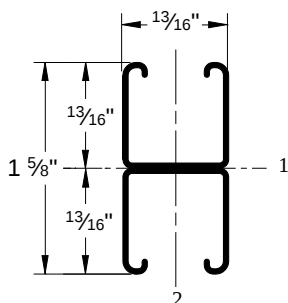
P6000



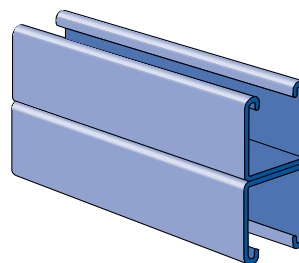
Wt/100 Ft: 37 Lbs (55 kg/100 m)
Allowable Moment 500 In-Lbs (60 N•m)
19 Gauge Nominal Thickness .040" (1.0 mm)



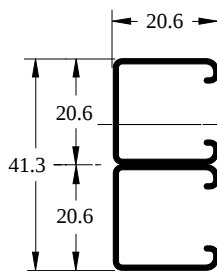
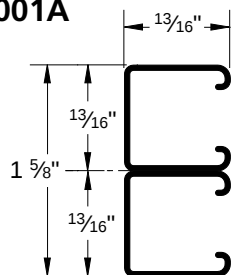
P6001



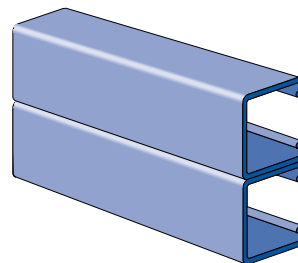
Wt/100 Ft: 73 Lbs (109 kg/100 m)
Allowable Moment 1,360 In-Lbs (150 N•m)
19 Gauge Nominal Thickness .040" (1.0 mm)



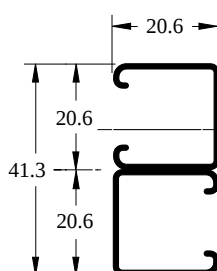
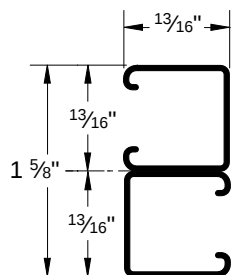
P6001A



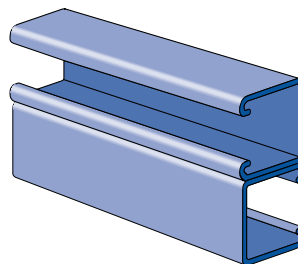
Wt/100 Ft: 73 Lbs (109 kg/100 m)
Allowable Moment 1,360 In-Lbs (150 N•m)
19 Gauge Nominal Thickness .040" (1.0 mm)



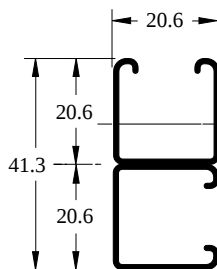
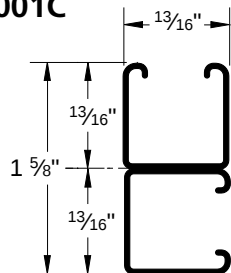
P6001B



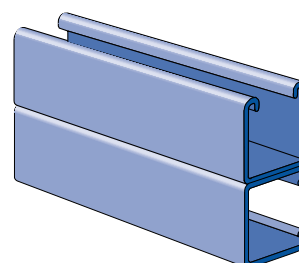
Wt/100 Ft: 73 Lbs (109 kg/100 m)
Allowable Moment 1,360 In-Lbs (150 N•m)
19 Gauge Nominal Thickness .040" (1.0 mm)



P6001C



Wt/100 Ft: 73 Lbs (109 kg/100 m)
Allowable Moment 1,360 In-Lbs (150 N•m)
19 Gauge Nominal Thickness .040" (1.0 mm)



BEAM LOADING DATA – P6000 CHANNEL

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	220	0.06	220	220	170
24	170	0.11	170	150	100
30	130	0.18	130	90	60
36	110	0.26	90	70	40
42	100	0.35	60	50	30
48	80	0.45	50	40	20
54	70	0.58	40	30	20
60	70	0.71	30	20	20

Span mm	Max Allowable Uniform Load kg	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kg	Span/240 kg	Span/360 kg
300	155	1	155	155	155
450	103	2	103	103	82
600	77	3	77	69	46
750	62	4	59	44	30
900	52	6	41	31	21
1,050	44	9	30	23	15
1,200	39	11	23	17	12
1,350	34	14	18	14	9

BEAM LOADING DATA – P6001 CHANNEL

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	410 *	0.04	410 *	410 *	410 *
24	410 *	0.06	410 *	410 *	410 *
30	360	0.10	360	360	310
36	300	0.14	300	300	210
42	260	0.19	260	240	160
48	230	0.25	230	180	120
54	200	0.32	190	140	90
60	180	0.39	150	120	80
66	160	0.47	130	100	60
72	150	0.56	110	80	50

Span mm	Max Allowable Uniform Load kg	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kg	Span/240 kg	Span/360 kg
300	186 *	0	186 *	186 *	186 *
450	186 *	1	186 *	186 *	186 *
600	186 *	2	186	186	186
750	167	2	167	167	144
900	139	3	139	139	100
1,050	119	5	119	110	74
1,200	104	6	104	84	56
1,350	93	8	*190	67	45
1,500	83	10	72	54	36
1,650	76	12	60	45	30

*Load limited by spot weld shear.

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.

COLUMN LOADING DATA – P6000 CHANNEL

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	570	1,650	1,340	960	670
24	450	1,210	840	540	370
30	340	820	540	350	240
36	270	570	370	240	170
42	210	420	280	180	120
48	170	320	210	130	90
54	140	250	170	110	**
60	120	200	130	**	**

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
300	304	937	858	742	622
450	261	757	622	448	312
600	207	562	395	253	176
750	158	383	253	162	112
900	123	266	176	112	78
1,050	98	195	129	83	57
1,200	79	150	99	63	44
1,350	65	118	78	50	**

COLUMN LOADING DATA – P6001 CHANNEL

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	1,120	4,090	3,720	3,170	2,620
24	1,030	3,540	2,990	2,260	1,610
30	910	2,940	2,260	1,480	1,030
36	780	2,340	1,610	1,030	710
42	660	1,790	1,180	760	520
48	560	1,370	900	580	400
54	480	1,080	710	460	320
60	410	880	580	370	**
72	310	610	400	**	**

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
300	542	2,062	1,979	1,848	1,701
450	512	1,866	1,701	1,459	1,210
600	471	1,622	1,376	1,048	753
750	420	1,355	1,048	694	482
900	359	1,088	753	482	335
1,050	304	838	553	354	246
2,000	123	231	152	**	**
2,500	**	148	**	**	**
2,750	**	**	**	**	**

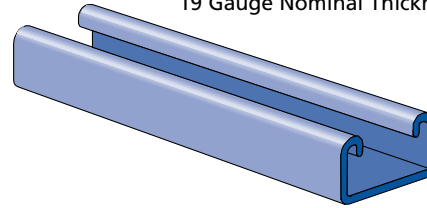
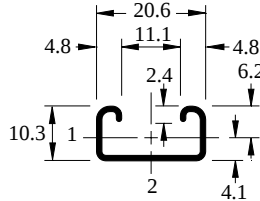
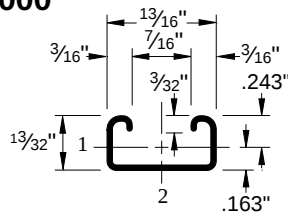
ELEMENTS OF SECTION – P6000

Parameter	P6000	P6001
Area of Section	0.105 In ²	0.211 In ²
Axis 1-1		
Moment of Inertia (I)	0.009 In ⁴	0.044 In ⁴
Section Modulus (S)	0.020 In ³	0.054 In ³
Radius of Gyration (r)	0.294 In	0.457 In
Axis 2-2		
Moment of Inertia (I)	0.012 In ⁴	0.023 In ⁴
Section Modulus (S)	0.029 In ³	0.057 In ³
Radius of Gyration (r)	0.333 In	0.333 In

ELEMENTS OF SECTION – P6001

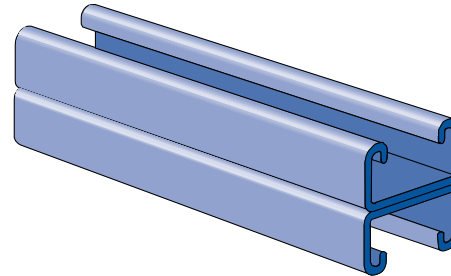
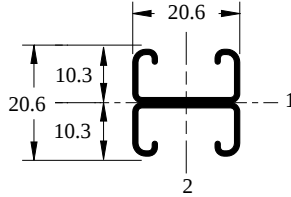
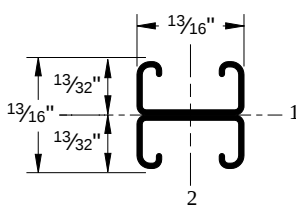
Parameter	P6000	P6001
Area of Section	0.68 cm ²	1.36 cm ²
Axis 1-1		
Moment of Inertia (I)	0.4 cm ⁴	1.8 cm ⁴
Section Modulus (S)	0.33 cm ³	0.88 cm ³
Radius of Gyration (r)	0.7 cm	1.2 cm
Axis 2-2		
Moment of Inertia (I)	0.5 cm ⁴	1.0 cm ⁴
Section Modulus (S)	0.48 cm ³	0.93 cm ³
Radius of Gyration (r)	0.8 cm	0.8 cm

P7000



Wt/100 Ft: 26 Lbs (39 kg/100m)
 Allowable Moment 180 In-Lbs (20 N•m)
 19 Gauge Nominal Thickness .040" (1.0 mm)

P7001



Wt/100 Ft: 52 Lbs (77 kg/100m)
 Allowable Moment 430 In-Lbs (50 N•m)
 19 Gauge Nominal Thickness .040" (1.0 mm)

BEAM LOADING DATA – P7000 CHANNEL

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	0.10	80	60	40
24	60	0.18	40	30	20
30	50	0.28	30	20	10
36	40	0.40	20	10	10

Span mm	Max Allowable Uniform Load kg	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kg	Span/240 kg	Span/360 kg
300	54	1	54	54	41
450	36	2	36	27	18
600	27	4	21	15	10
750	22	7	13	10	7

BEAM LOADING DATA – P7001 CHANNEL

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	140	0.12	140	110	80
30	110	0.19	100	70	50
36	100	0.28	70	50	30
42	80	0.38	50	40	20
48	70	0.50	40	30	20

Span mm	Max Allowable Uniform Load kg	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kg	Span/240 kg	Span/360 kg
300	132	1	132	132	132
450	88	2	88	88	64
600	66	3	66	54	36
750	53	5	46	34	23
900	44	7	32	24	16

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.



COLUMN LOADING DATA – P7000 CHANNEL

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	320	970	720	470	330
24	230	620	410	260	180
30	170	400	260	**	**
36	130	280	180	**	**

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
300	187	606	535	435	338
450	146	447	338	219	152
600	106	292	193	123	86
750	79	187	123	79	**

COLUMN LOADING DATA – P7001 CHANNEL

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	680	2,870	2,630	2,270	1,900
24	600	2,510	2,150	1,660	1,200
30	520	2,120	1,660	1,110	770
36	440	1,720	1,200	770	530
42	370	1,340	880	570	**
48	320	1,030	680	**	**

Unbraced Height mm	Maximum Allowable Load at Slot Face kg	Maximum Column Load Applied at C.G.			
		K = 0.65 kg	K = 0.80 kg	K = 1.0 kg	K = 1.2 kg
300	338	1,435	1,382	1,297	1,201
450	309	1,309	1,201	1,043	877
600	275	1,150	988	768	563
750	239	974	768	519	361
900	203	795	563	361	250
1,050	171	625	414	265	**

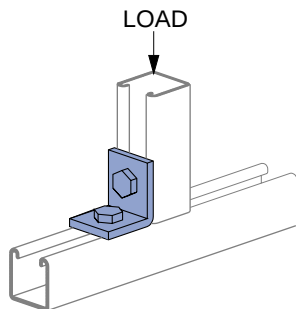
ELEMENTS OF SECTION – P7000

Parameter	P7000	P7001
Area of Section	0.073 In ²	0.146 In ²
Axis 1-1		
Moment of Inertia (I)	0.002 In ⁴	0.007 In ⁴
Section Modulus (S)	0.007 In ³	0.017 In ³
Radius of Gyration (r)	0.148 In	0.220 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)	0.306 In	0.306 In

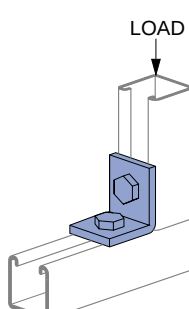
ELEMENTS OF SECTION – P7001

Parameter	P7000	P7001
Area of Section	0.47 cm ²	0.94 cm ²
Axis 1-1		
Moment of Inertia (I)	0.1 cm ⁴	0.3 cm ⁴
Section Modulus (S)	0.11 cm ³	0.28 cm ³
Radius of Gyration (r)	0.4 cm	0.6 cm
Axis 2-2		
Moment of Inertia (I)	0.3 cm ⁴	0.6 cm ⁴
Section Modulus (S)	0.28 cm ³	0.56 cm ³
Radius of Gyration (r)	0.8 cm	0.8 cm

LOAD DATA FOR UNISTRUT SECTIONS SUBJECT TO CRUSHING LOADS



Allowable Load at Center of Member	
Channel	Lbs (kg)
P6000	1,000 453
P7000	1,300 590

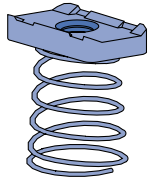


Allowable Load at End of member	
Channel	Lbs (kg)
P6000	700 318
P7000	900 408

Maximum Allowable Pull-Out And Slip Loads

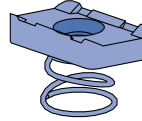
Nut Size/ Thread	Max. Allowable Resistance		
	Pull-Out Lbs (kg)	to Slip Lbs (kg)	Torque Ft-Lbs (Nm)
1/4"-20	250 113	150 68	6 8

P6006-0832 thru P6006-1420 Channel Nut With Spring



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

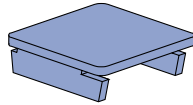
P7006-0832 thru P7006-1420 Channel Nut With Spring



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

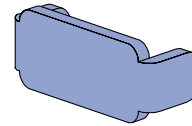
Wt/100 pcs: 3 Lbs (1.4 kg)



Material: .060" (1.5)

P7280 End Cap for P7000

Wt/100 pcs: 1 Lbs (0.5 kg)

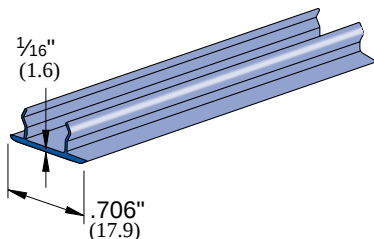


Material: .048" (1.2)

P6184 P

Closure Strip

Wt/100 Ft: 4 Lbs (6.0 kg/100m)

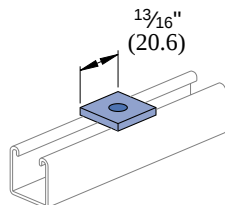


Material: PVC, Plastic.
Standard Length: 10 Feet (3.05 m).



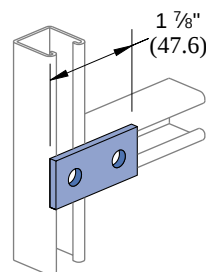
P6062

Wt/100 pcs: 2 Lbs (0.9 kg)



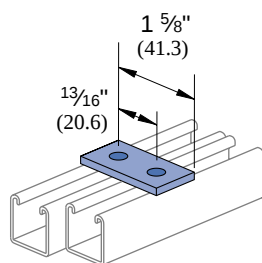
P6065

Wt/100 pcs: 5 Lbs (2.3 kg)



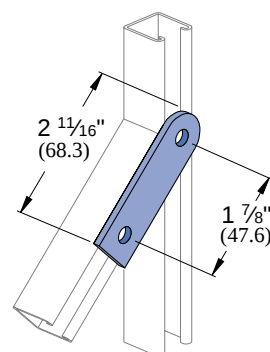
P6924

Wt/100 pcs: 5 Lbs (2.3 kg)



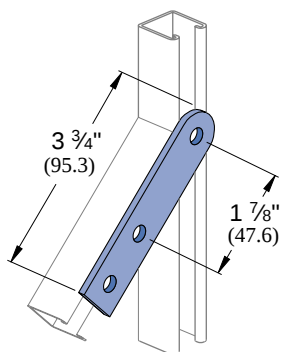
P7325

Wt/100 pcs: 7 Lbs (3.2 kg)



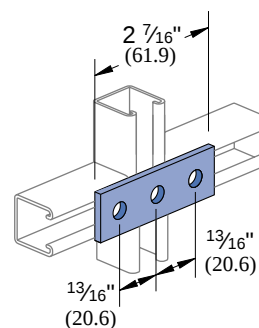
P7324

Wt/100 pcs: 10 Lbs (4.5 kg)



P6925

Wt/100 pcs: 7 Lbs (3.2 kg)

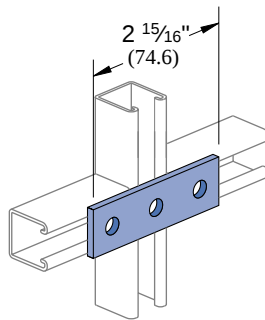


Standard Dimensions for 13/16" (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

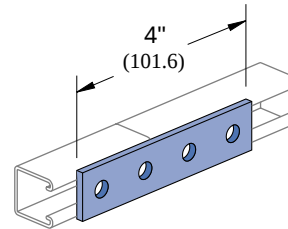
Hole Diameter: 9/32" (7.1mm); **Hole Spacing - From End:** 13/32" (10.3mm); **Hole Spacing - On Center:** 1 1/16" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)

P6066

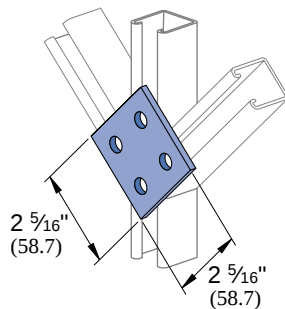
Wt/100 pcs: 8 Lbs (3.6 kg)

**P6067**

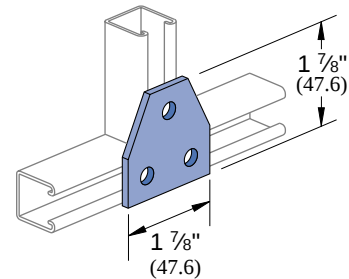
Wt/100 pcs: 11 Lbs (5.0 kg)

**P6962**

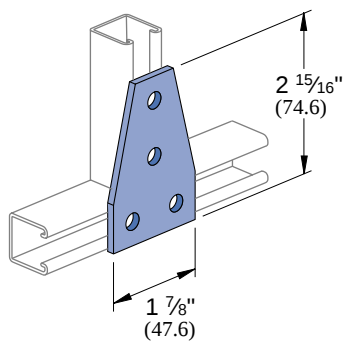
Wt/100 pcs: 19 Lbs (8.6 kg)

**P6356A**

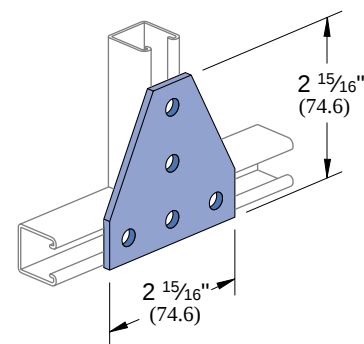
Wt/100 pcs: 10 Lbs (4.5 kg)

**P6358A**

Wt/100 pcs: 15 Lbs (6.8 kg)

**P6726A**

Wt/100 pcs: 22 Lbs (10.0 kg)

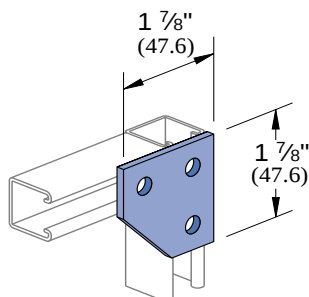


Standard Dimensions for $\frac{13}{16}$ " (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: $\frac{9}{32}$ " (7.1mm); **Hole Spacing - From End:** $\frac{13}{32}$ " (10.3mm); **Hole Spacing - On Center:** $1\frac{1}{16}$ " (27.0 mm); **Width:** $\frac{13}{16}$ " (20.6mm); **Thickness:** $\frac{1}{8}$ " (3.2mm)

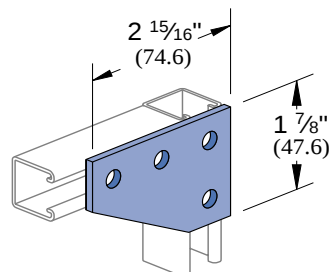
P6334

Wt/100 pcs: 11 Lbs (5.0 kg)



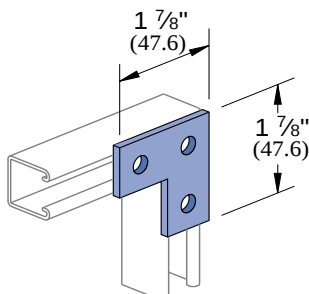
P6380

Wt/100 pcs: 15 Lbs (6.8 kg)



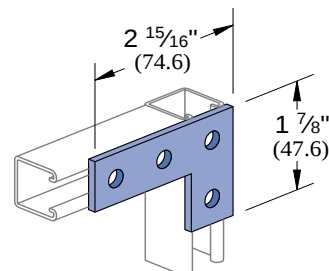
P6036

Wt/100 pcs: 8 Lbs (3.6 kg)



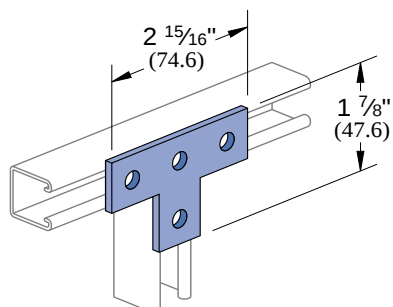
P6380A

Wt/100 pcs: 11 Lbs (5.0 kg)



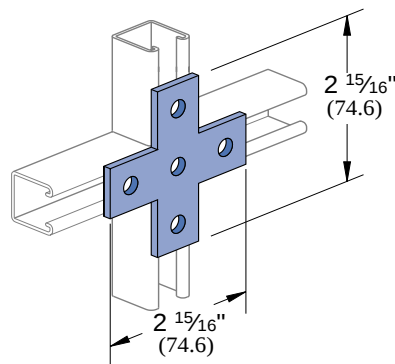
P6031

Wt/100 pcs: 11 Lbs (5.0 kg)



P6028

Wt/100 pcs: 14 Lbs (6.4 kg)

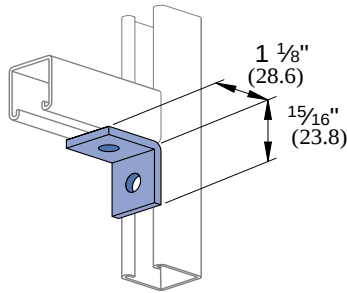


Standard Dimensions for 13/16" (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

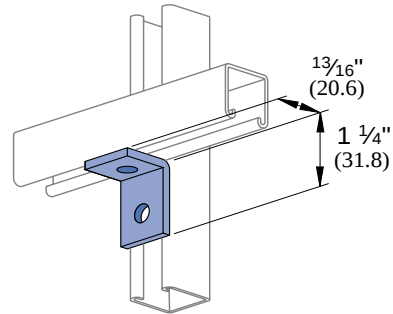
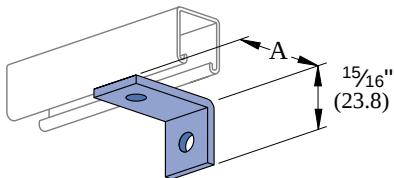
Hole Diameter: 9/32" (7.1mm); **Hole Spacing - From End:** 13/32" (10.3mm); **Hole Spacing - On Center:** 1 1/16" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)

P6026

Wt/100 pcs: 5 Lbs (2.3 kg)


P6068

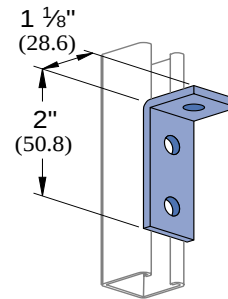
Wt/100 pcs: 5 Lbs (2.3 kg)


P6281 , P6282, P6283


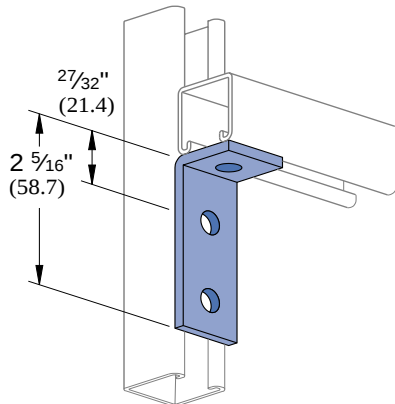
Part Number	A In (mm)	Wt/100 pcs Lbs (kg)
P6281	2 50.8	8 3.6
P6282	2 1/2 63.5	9 4.1
P6283	3 76.2	10 4.5

P6069

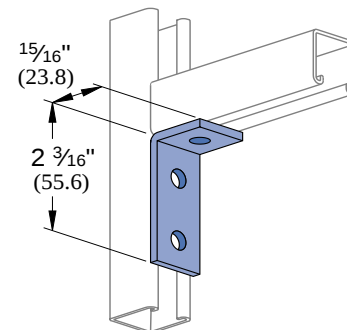
Wt/100 pcs: 8 Lbs (3.6 kg)


P6326

Wt/100 pcs: 8 Lbs (3.6 kg)


P6346

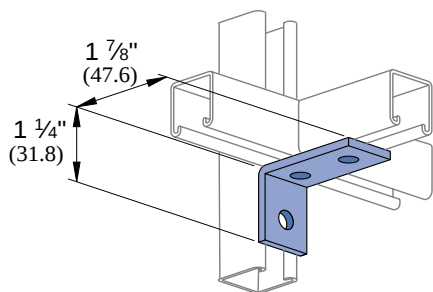
Wt/100 pcs: 8 Lbs (3.6 kg)


Standard Dimensions for 13/16" (21 mm) 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" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)



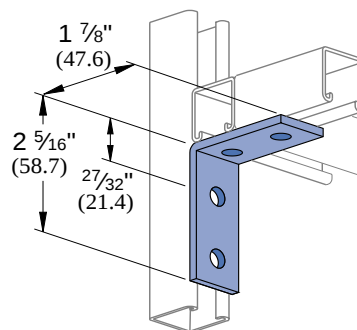
P6458

Wt/100 pcs: 8 Lbs (3.6 kg)



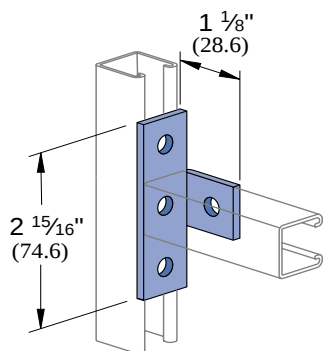
P6325

Wt/100 pcs: 11 Lbs (5.0 kg)



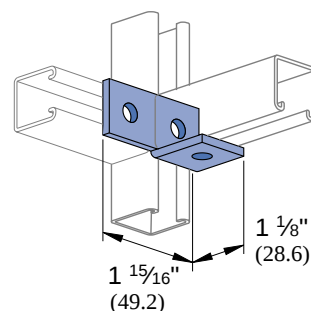
P6033

Wt/100 pcs: 11 Lbs (5.0 kg)



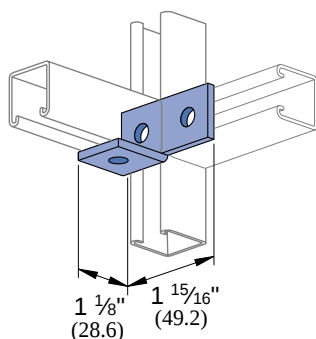
P6037

Wt/100 pcs: 8 Lbs (3.6 kg)



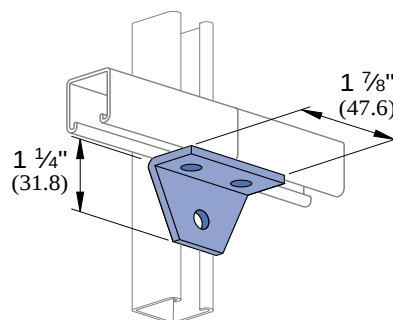
P6038

Wt/100 pcs: 8 Lbs (3.6 kg)



P6357

Wt/100 pcs: 10 Lbs (4.5 kg)

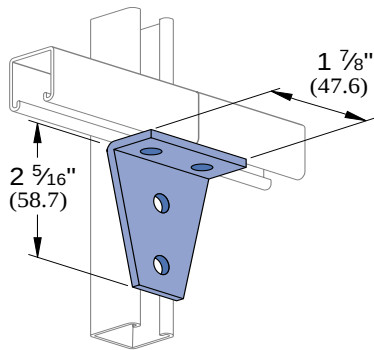


Standard Dimensions for 13/16" (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

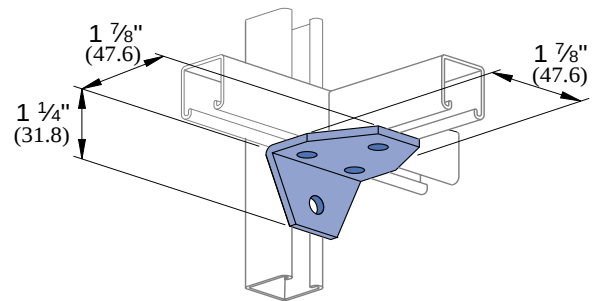
Hole Diameter: 9/32" (7.1mm); **Hole Spacing - From End:** 13/32" (10.3mm); **Hole Spacing - On Center:** 1 1/16" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)

P6359

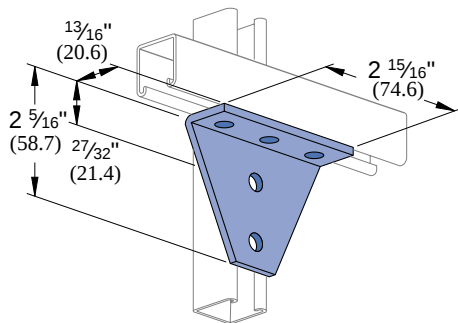
Wt/100 pcs: 15 Lbs (6.8 kg)


P6579

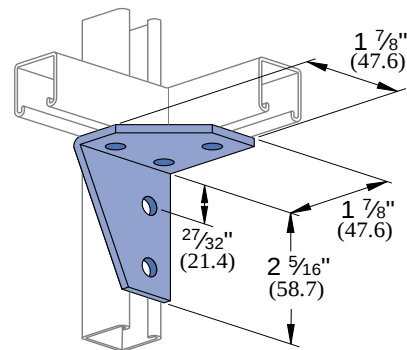
Wt/100 pcs: 15 Lbs (6.8 kg)


P6728

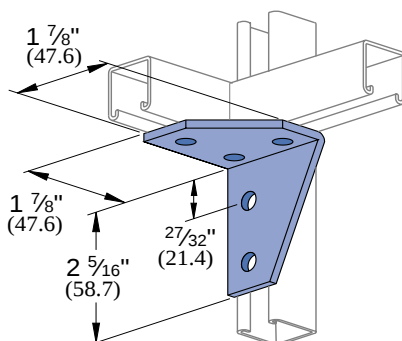
Wt/100 pcs: 22 Lbs (10.0 kg)


P6917

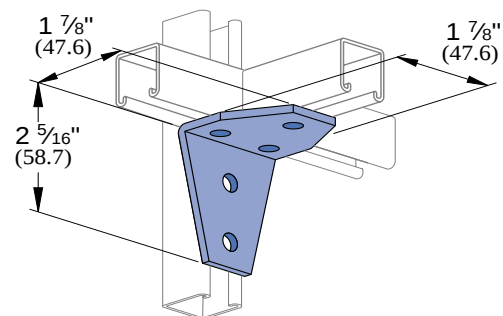
Wt/100 pcs: 21 Lbs (9.5 kg)


P6918

Wt/100 pcs: 21 Lbs (9.5 kg)


P7235

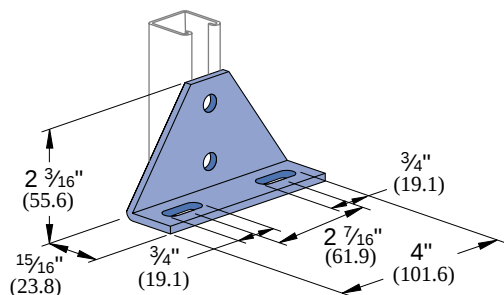
Wt/100 pcs: 18 Lbs (8.2 kg)


Standard Dimensions for 13/16" (21 mm) 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" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)



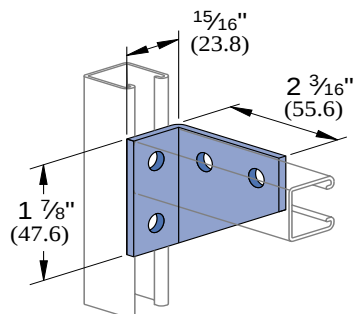
P6130

Wt/100 pcs: 32 Lbs (14.5 kg)



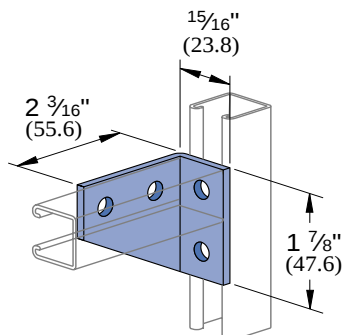
P6290

Wt/100 pcs: 15 Lbs (6.8 kg)



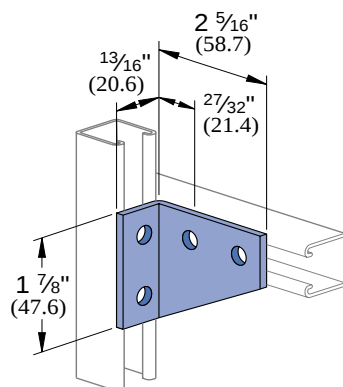
P6291

Wt/100 pcs: 15 Lbs (6.8 kg)



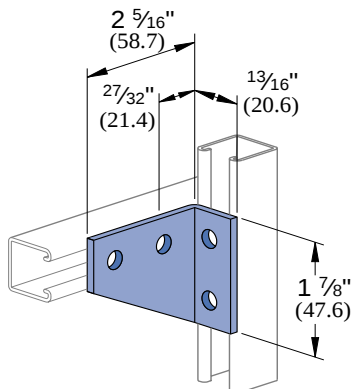
P6381

Wt/100 pcs: 15 Lbs (6.8 kg)



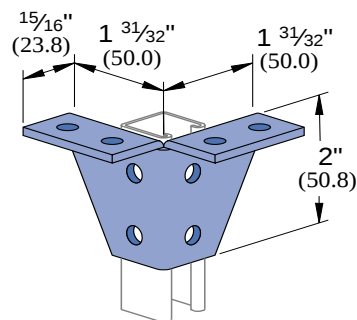
P6382

Wt/100 pcs: 15 Lbs (6.8 kg)



P6887

Wt/100 pcs: 28 Lbs (12.7 kg)

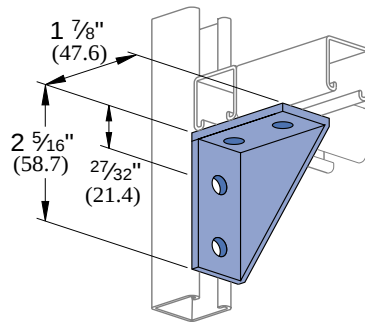


Standard Dimensions for 13/16" (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

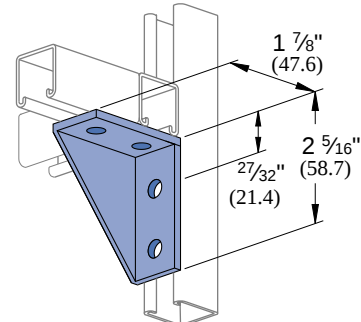
Hole Diameter: 9/32" (7.1mm); **Hole Spacing - From End:** 1 3/32" (10.3mm); **Hole Spacing - On Center:** 1 1/16" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)

P6331

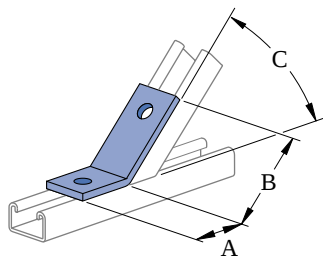
Wt/100 pcs: 19 Lbs (8.6 kg)


P6332

Wt/100 pcs: 19 Lbs (8.6 kg)


P6546, P7097, P7098, P7100, P7101

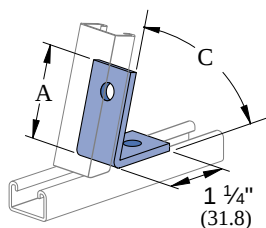
Wt/100 pcs: 8 Lbs (3.6 kg)



Part Number	A In (mm)	"B" In (mm)	"C" Deg (rad)
P7097	1 ⁵ / ₁₆ 23.8	1 ¹³ / ₁₆ 46.0	60° 1.1
P7098	1 ¹ / ₃₂ 26.2	1 ⁷ / ₈ 47.6	52 ¹ / ₂ ° 9.1
P6546	1 ³ / ₁₆ 30.2	1 ²³ / ₃₂ 43.7	45° 0.8
P7100	1 ⁵ / ₁₆ 33.3	1 ¹⁹ / ₃₂ 40.5	37 ¹ / ₂ ° 6.5
P7101	1 ¹ / ₃₂ 26.2	1 ⁷ / ₈ 47.6	30° 0.5

P6186, P7108, P7109, P7110

Wt/100 pcs: 8 Lbs (3.6 kg)



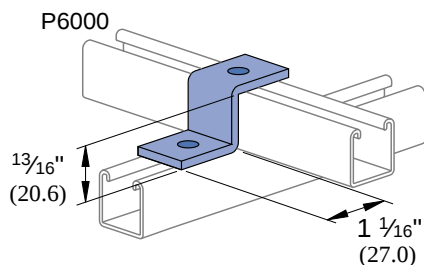
Part Number	A In (mm)	"C" Deg (rad)
P7108	1 ²⁷ / ₃₂ 46.8	60° 1.1
P7109	1 ¹³ / ₁₆ 46	52 ¹ / ₂ ° 9.1
P6186	1 ¹³ / ₁₆ 46.0	45° 0.8
P7110	1 ¹³ / ₁₆ 46	37 ¹ / ₂ ° 6.5

Standard Dimensions for 1³/₁₆" (21 mm) 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:** 1¹/₁₆" (27.0 mm); **Width:** ¹³/₁₆" (20.6mm); **Thickness:** ¹/₈" (3.2mm)



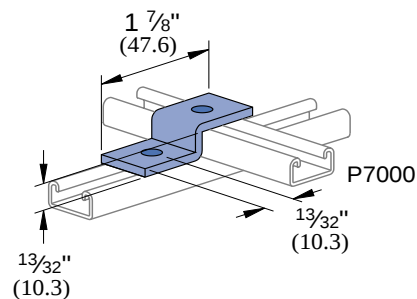
P6045

Wt/100 pcs: 7 Lbs (3.2 kg)



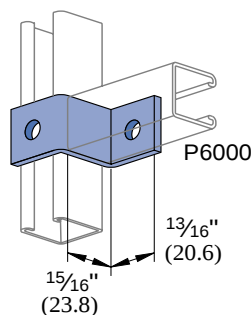
P7045

Wt/100 pcs: 6 Lbs (2.7 kg)



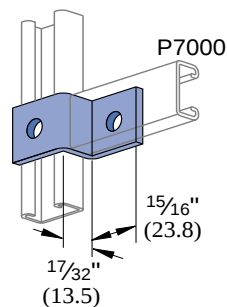
P6347

Wt/100 pcs: 7 Lbs (3.2 kg)



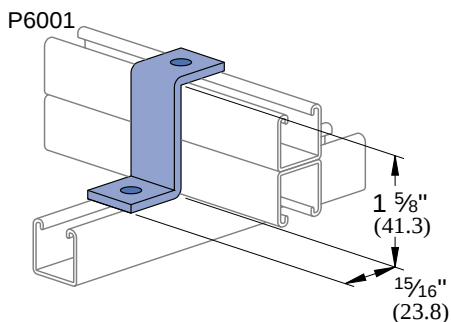
P7347

Wt/100 pcs: 6 Lbs (2.7 kg)



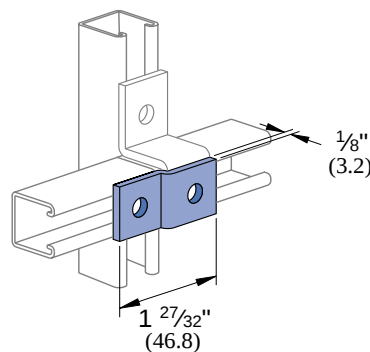
P6453

Wt/100 pcs: 9 Lbs (4.1 kg)



P6454

Wt/100 pcs: 5 Lbs (2.3 kg)

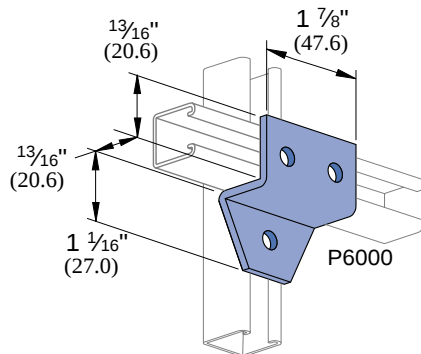


Standard Dimensions for 13/16" (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/32" (7.1mm); **Hole Spacing - From End:** 13/32" (10.3mm); **Hole Spacing - On Center:** 1 1/16" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)

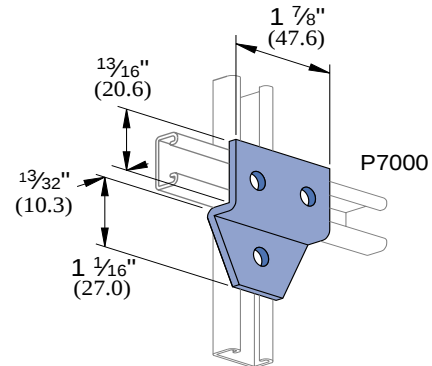
P6758

Wt/100 pcs: 13 Lbs (5.9 kg)

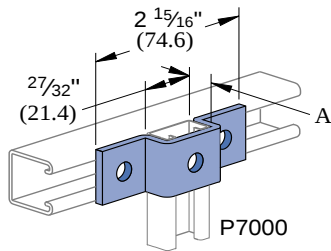


P7758

Wt/100 pcs: 12 Lbs (5.4 kg)



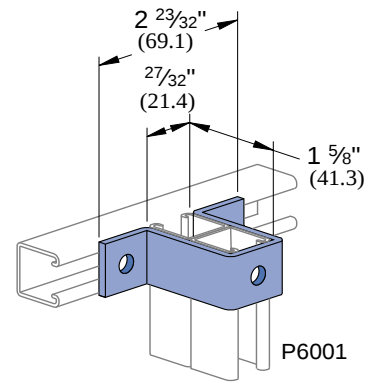
P6047, P7047



Part Number	A In (mm)	Wt/100 pcs Lbs (kg)	Use with Channel
P6047	$\frac{13}{16}$ 20.6	12 5.4	P6000
P7047	$\frac{13}{32}$ 10.3	10 4.5	P7000

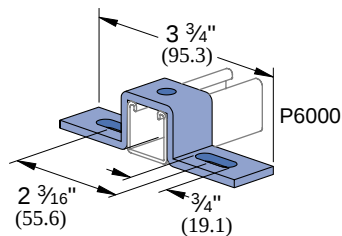
P6737

Wt/100 pcs: 16 Lbs (7.3 kg)



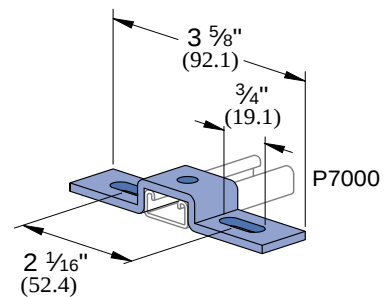
P6048

Wt/100 pcs: 14 Lbs (6.4 kg)



P7048

Wt/100 pcs: 10 Lbs (4.5 kg)



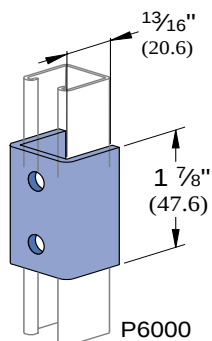
Standard Dimensions for $\frac{13}{16}$ " (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: $\frac{9}{32}$ " (7.1mm); Hole Spacing - From End: $\frac{13}{32}$ " (10.3mm); Hole Spacing - On Center: $1\frac{1}{16}$ " (27.0 mm); Width: $\frac{13}{16}$ " (20.6mm); Thickness: $\frac{1}{8}$ " (3.2mm)



P6376

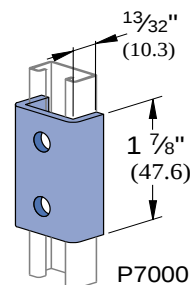
Wt/100 pcs: 17 Lbs (7.7 kg)



P6000

P7376

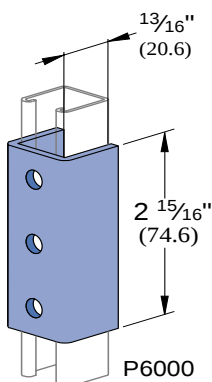
Wt/100 pcs: 11 Lbs (5.0 kg)



P7000

P6376A

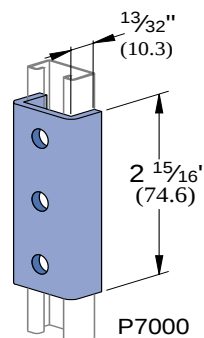
Wt/100 pcs: 26 Lbs (11.8 kg)



P6000

P7376A

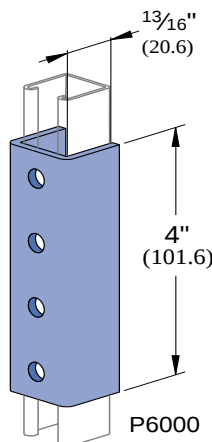
Wt/100 pcs: 16 Lbs (7.3 kg)



P7000

P6377

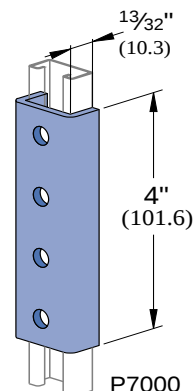
Wt/100 pcs: 36 Lbs (16.3 kg)



P6000

P7377

Wt/100 pcs: 24 Lbs (10.9 kg)



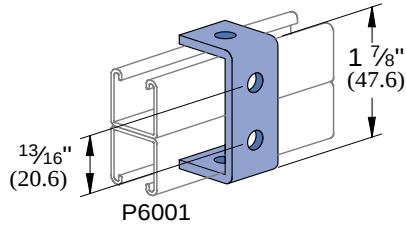
P7000

Standard Dimensions for 13/16" (21 mm) 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" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)

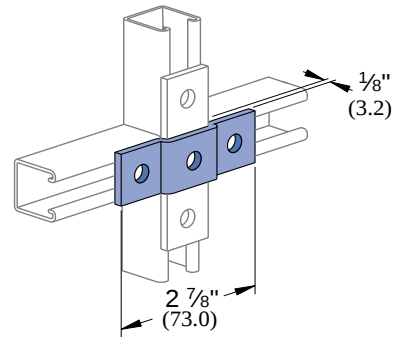
P6044

Wt/100 pcs: 9 Lbs (4.1 kg)



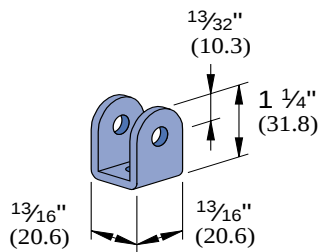
P6455

Wt/100 pcs: 8 Lbs (3.6 kg)



P6973

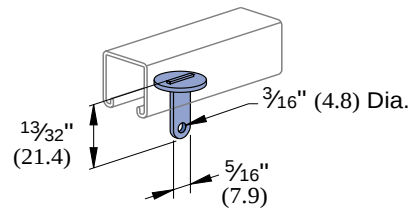
Wt/100 pcs: 8 Lbs (3.6 kg)



P6349

Acetal Slide

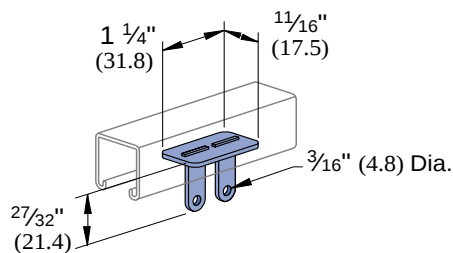
Wt/100 pcs: 1 Lbs (0.5 kg)



P6353

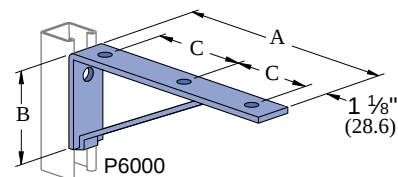
Acetal Slide

Wt/100 pcs: 1 Lbs (0.5 kg)



P6127 - P6129

Bracket



Part Number	Uniform Design Load Lbs (kg)	"A" In (mm)	"B" In (mm)	"C" In (mm)	Wt/100 pcs Lbs (kg)
P6127	150 68	6 1/2 165.1	2 1/2 63.5	2 1/2 63.5	30 13.6
P6128	150 68	8 1/2 215.9	3 1/4 82.6	3 1/2 88.9	40 18.1
P6129	130.0 59	10 1/2 266.7	4 101.6	4 1/2 114.3	50 22.7

Safety Factor 2 1/2

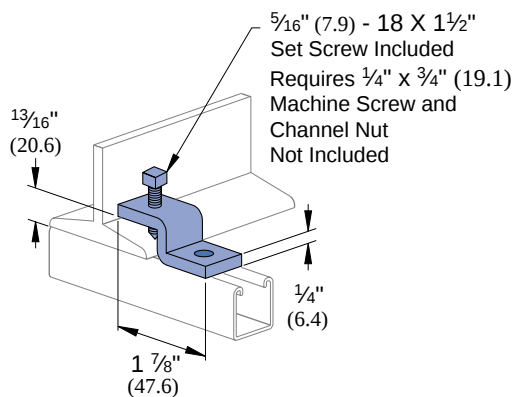
Standard Dimensions for 13/16" (21 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/32" (7.1mm); **Hole Spacing - From End:** 13/32" (10.3mm); **Hole Spacing - On Center:** 1 1/16" (27.0 mm); **Width:** 13/16" (20.6mm); **Thickness:** 1/8" (3.2mm)



P6379 S

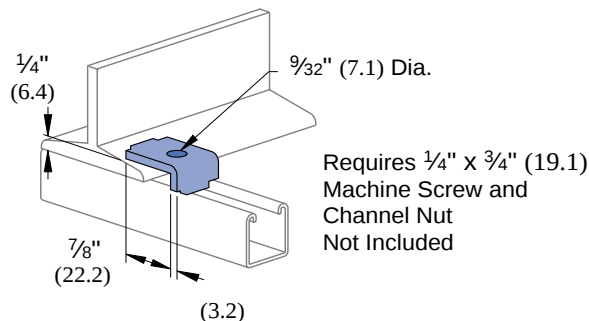
Wt/100 pcs: 13 Lbs (5.9 kg)



Use in pairs.

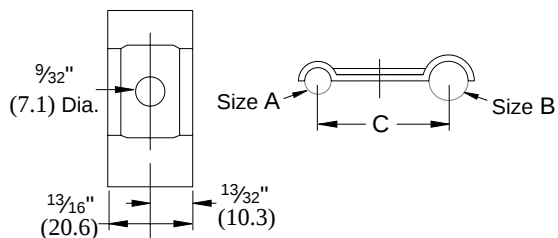
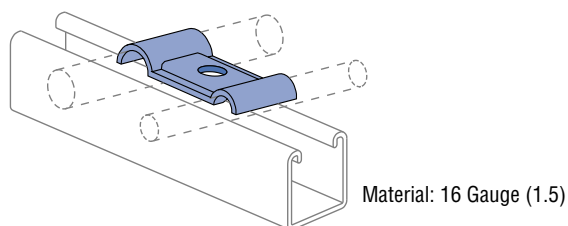
P6386

Wt/100 pcs: 4 Lbs (1.8 kg)



Use in pairs.

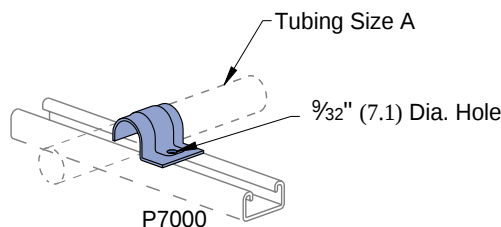
P6805 thru P6810



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

P7008 thru P7020

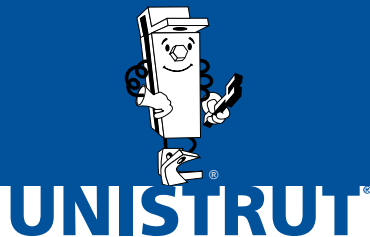
Tubing Clips



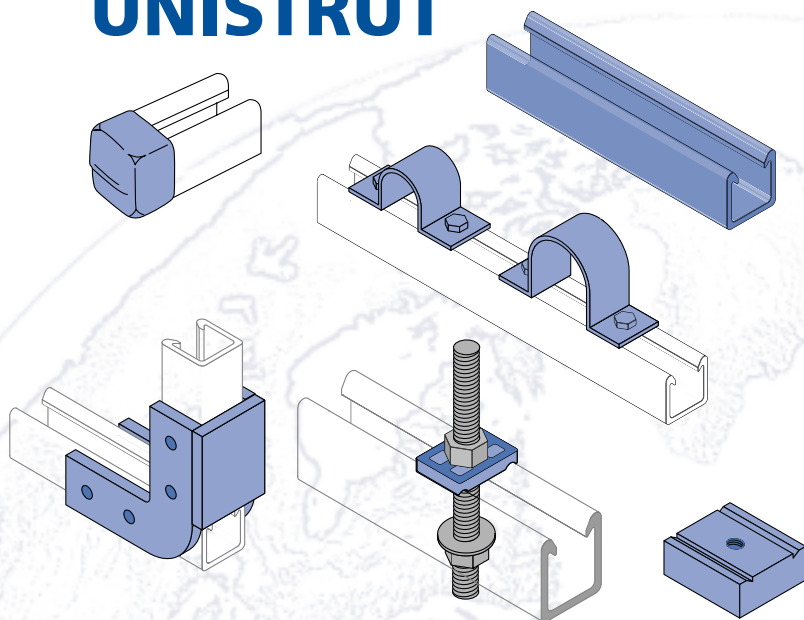
Part Number	O.D. Tube Size "A" In (mm)	Wt/100 pcs Lbs (kg)
P7008	1/4 6.4	1 0.45
P7009	5/16 7.9	1 0.45
P7010	3/8 9.5	2 0.91
P7012	1/2 12.7	2 0.91
P7014	5/8 15.9	3 1.4
P7016	3/4 19.1	4 1.8
P7018	7/8 22.6	5 2.3
P7020	1 25.4	5 2.3

Standard Dimensions for 13/16" (21 mm) 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" (27.0 mm); Width: 13/16" (20.6mm); Thickness: 1/8" (3.2mm)



FIBERGLASS SYSTEMS



Heavy Duty Channel (Flange Profile)	240
Light Duty Channel (Flange Profile)	242
Heavy Duty Channel (SST Profile)	244
Nuts & Hardware	246
Fittings	250
Pipe Clamps	255
Clevis Hangers	257
Beam Clamps	258
Chemical Compatibility	259
Specifications	260

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.

Material Code	Low Temp.	High Temp.
E	-25°F	130°F
P	-35°F	200°F
V	-35°F	200°F
PU	-40°F	140°F
N	-20°F	150°F

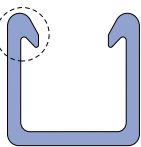
Chemical Resistance - See the chart on page 259 for corrosion resistance. The results are based upon immersion for a 24 hour period. This is typically the "worst case" exposure to corrosion. Less severe contact such as spills, splashes and vapor condensate will exceed the performance results listed in 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.



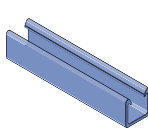
Channel - Patented Flange Profile

Patented Flange

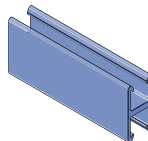


Unistrut fiberglass channels, except the SST series, incorporate a patented flange design which provides reliable fastening and interlocking of components and accessories. It is important to note that standard metal framing components such as pipe clamps and strut nuts will not work with the flange design.

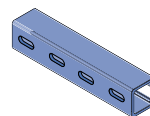
Heavy Duty Patented Flange Profile
1⁵/₈" x 1⁵/₈"



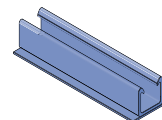
F20P/V-2000-Pg 240



F20P/V-2100-Pg 240

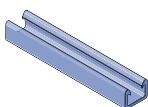


F20P/V-2200-Pg 240

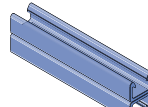


F20P/V-2300-Pg 240

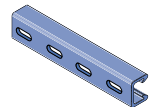
Light Duty Patented Flange Profile
1¹/₂" x 1¹/₈"



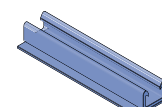
F20P/V-1000-Pg 242



F20P/V-1100-Pg 242



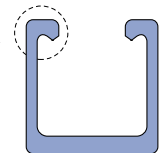
F20P/V-1200-Pg 242



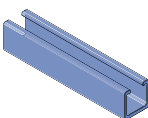
F20P/V-1300-Pg 242

Channel - SST Profile

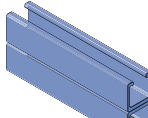
SST Flange



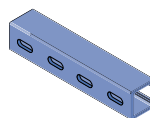
Heavy Duty SST Profile
1⁵/₈" x 1⁵/₈"



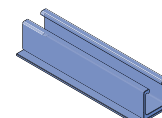
F20P/V-2000 SST-Pg 244



F20P/V-2100 SST-Pg 244



F20P/V-2200 SST-Pg 244



F20P/V-23000 SST-Pg 244

The Unistrut SST profile is similar to the profile of standard metal channel. The Unistrut SST profile will accommodate standard 1⁵/₈" 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.

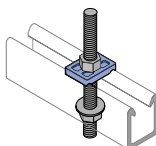
Hardware & Accessories



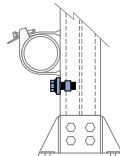
Heavy Duty-Pg 246



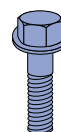
Standard Duty-Pg 246



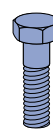
Saddle Clip-Pg 246



Stop Lock-Pg 246



Hex Flange Bolt-Pg 247



Hex Bolt-Pg 247



Hex Flange Nut-Pg 247



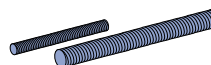
Hex Nut -Pg 247



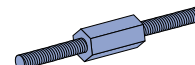
Flat Washer-Pg 248



Spacer -Pg 248



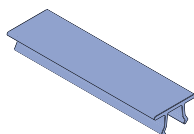
Threaded Rod-Pg 248



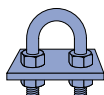
Rod Coupler-Pg 248



End Cap-Pg 249

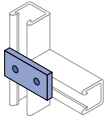


Capping Strip-Pg 249

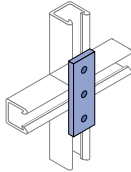


U-Bolt-Pg 249

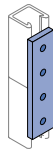
Fittings



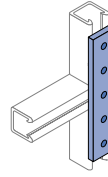
F20P/V-2500-Pg 250



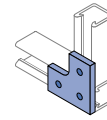
F20P/V-2502-Pg 250



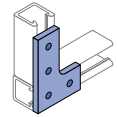
F20P/V-2504-Pg 250



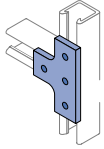
F20P/V-2506-Pg 250



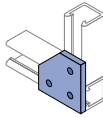
F20P/V-2508-Pg 251



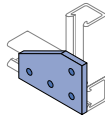
F20P/V-2510-Pg 251



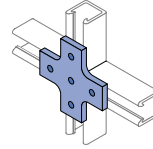
F20P/V-2512-Pg 251



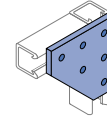
F20P/V-2514-Pg 251



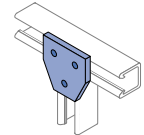
F20P/V-2516-Pg 251



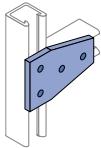
F20P/V-2518-Pg 251



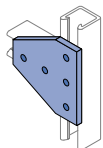
F20P/V-2520-Pg 252



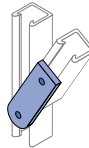
F20P/V-2522-Pg 252



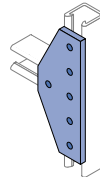
F20P/V-2524-Pg 252



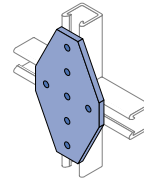
F20P/V-2526-Pg 252



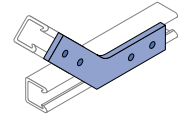
F20P/V-2528-Pg 252



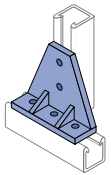
F20P/V-2530-Pg 252



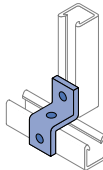
F20P/V-2534-Pg 253



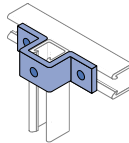
F20P/V-2540-Pg 253



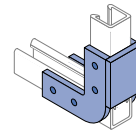
F20P/V-2538-Pg 253



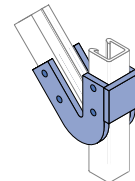
F20P/V-2611-Pg 253



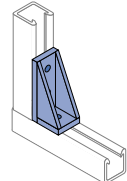
F20P/V-2613-Pg 253



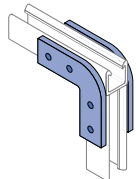
F50PU-1508-Pg 253



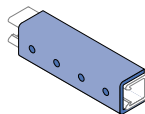
F50PU-2045-Pg 254



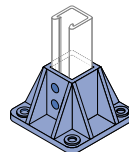
F50PU-2636-Pg 254



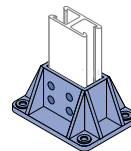
F50PU-2090-Pg 254



F50PU-2616-Pg 254

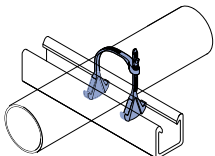


F20PU-5853-Pg 254

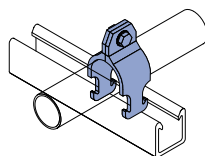


F20PU-5903-Pg 254

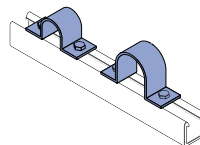
Pipe Clamps, Beam Clamps and Stanchions



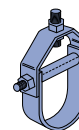
Adj. Pipe Clamp-Pg 255



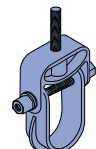
Rigid Pipe Clamp-Pg 256



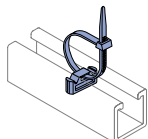
Pipe Strap-Pg 256



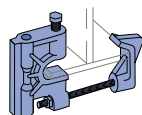
Clevis Hanger-Pg 257



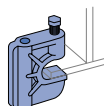
Clevis Hanger-Pg 257



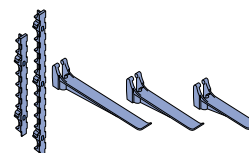
Channel Insert-Pg 257



Beam Clamp-Pg 258



Beam Clamp-Pg 258

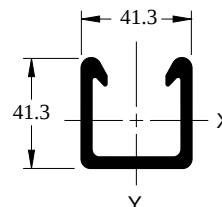
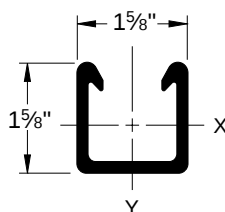
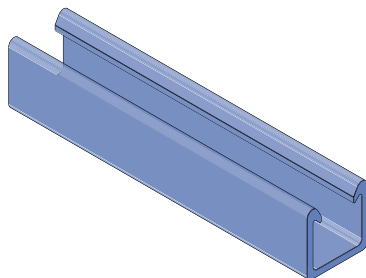


Rack Stanchion-Pg 258

F20P/V-2000

Heavy Duty Single Channel - Patented Flange Profile

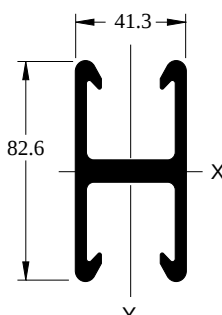
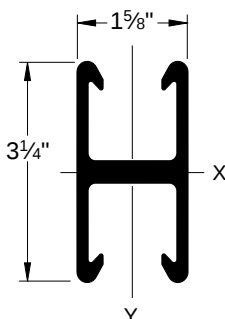
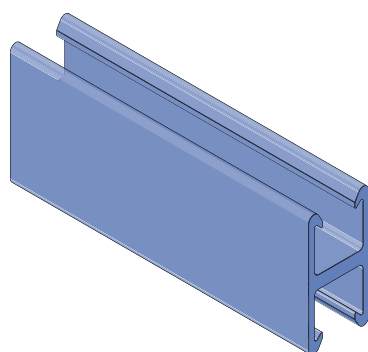
Wt/100 Ft: 82 Lbs(122 kg/100 m)



F20P/V-2100

Heavy Duty Back-to-Back Channel - Patented Flange Profile

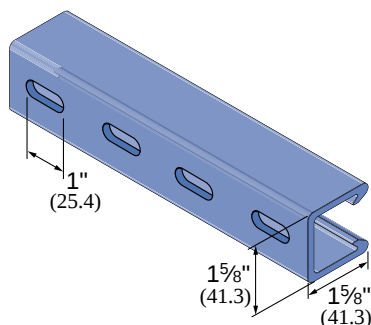
Wt/100 Ft: 164 Lbs (244 kg/100 m)



F20P/V-2200

Slotted Channel

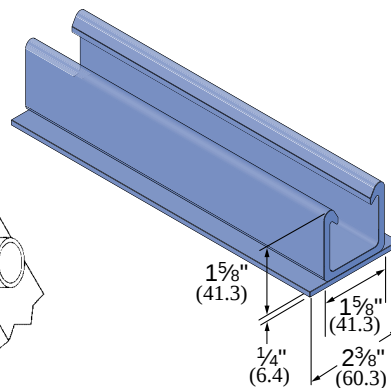
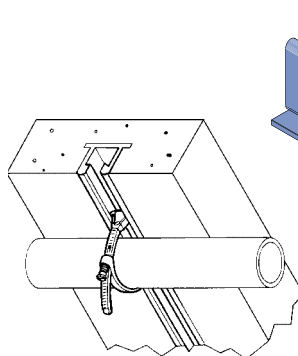
Wt/100 Ft: 82 Lbs (122 kg/100 m)



F20P/V-2300

w/Concrete Insert

Wt/100 Ft: 88 Lbs (131 kg/100 m)



F20P/V-2000, F20P/V-2100

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)
F20P/V-2000	0.82	1.06	0.31	0.54	0.7	0.93	0.42	0.63	0.82
	1.2	6.8	12.9	13.7	17.8	23.622	17.5	16.0	20.8
F20P/V-2100	1.64	2.12	1.77	0.91	1.63	1.63	0.85	0.63	0.82
	2.4	13.7	73.7	23.1	41.4	41.402	35.4	16.0	20.8

F20P/V-2000

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
	Load Lbs (kg)	Deflection In (mm)	Load Lbs (kg)	Deflection In (mm)	
12	3,561	0.102	1,159	0.033	5,160
305	1,615	2.6	526	0.8	2,341
18	2,374	0.230	515	0.050	4,704
457	1,077	5.8	234	1.3	2,134
24	1,781	0.410	290	0.067	4,168
610	808	10.4	132	1.7	1,891
30	1,424	0.640	185	0.083	3,553
762	646	16.3	84	2.1	1,612
36	1,187	0.922	129	0.100	2,859
914	538	23.4	59	2.5	1,297
48	890	1.638	72	0.133	1,636
1,219	404	41.6	33	3.4	742
60	712	2.560	46	0.167	1,047
1,524	323	65.0	21	4.2	475
72	594	3.686	32	0.200	727
1,829	269	93.6	15	5.1	330

F20P/V-2100

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
	Load Lbs (kg)	Deflection In (mm)	Load Lbs (kg)	Deflection In (mm)	
12	5,559	0.028	5,559	0.033	9,454
305	2,522	0.7	2,522	0.8	4,288
18	3,706	0.064	2,914	0.050	8,866
457	1,681	1.6	1,322	1.3	4,022
24	2,780	0.113	1,639	0.067	8,181
610	1,261	2.9	743	1.7	3,711
30	2,224	0.177	1,049	0.083	7,405
762	1,009	4.5	476	2.1	3,359
36	1,853	0.254	730	0.100	6,451
914	841	6.5	331	2.5	2,926
48	1,390	0.452	410	0.133	4,534
1,219	630	11.5	186	3.4	2,057
60	1,112	0.707	262	0.167	2,902
1,524	504	18.0	119	4.2	1,316
72	927	1.018	182	0.200	2,015
1,829	420	25.9	83	5.1	914

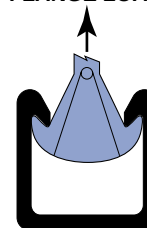
F20P/V-2000, F20P/V-2100

*Values shown represent a
3:1 safety factor

Part Number	Pull-Out Strength* Lbs (kg)
F20V-2000/2100	449 204
F20P-2000/2100	360 163

FLANGE LOAD

Flange Loading

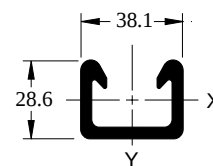
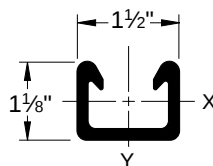
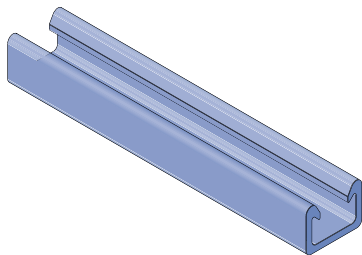




F20P/V-1000

Light Duty Single Channel - Patented Flange Profile

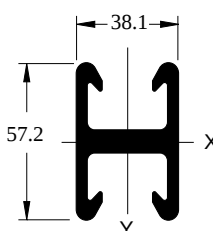
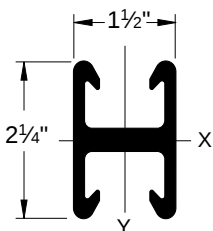
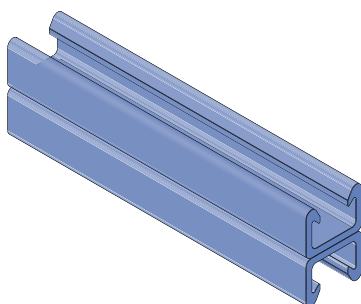
Wt/100 Ft: 47 Lbs (70 kg/100 m)



F20P/V-1100

Light Duty Back-to-Back Channel - Patented Flange Profile

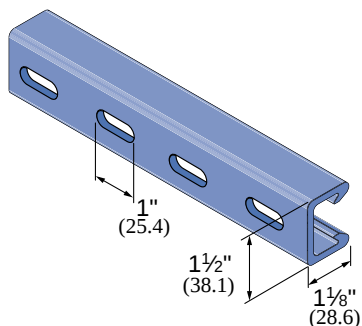
Wt/100 Ft: 94 Lbs (140 kg/100 m)



F20P/V-1200

Slotted Channel

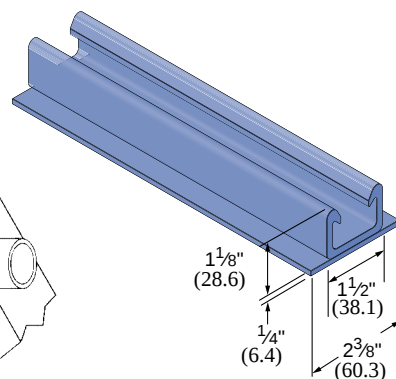
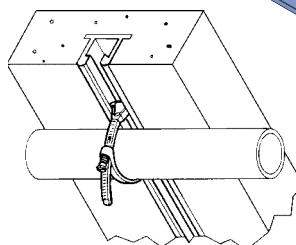
Wt/100 Ft: 47 Lbs (70 kg/100 m)



F20P/V-1300

w/Concrete Insert

Wt/100 Ft: 53 Lbs (79 kg/100 m)



F20P/V-1000, F20P/V-1100

Section Properties

Part Number	Weight lbs./ft. (kg/m)	Area in ² (mm ²)	----- X - X Axis -----				----- Y - Y Axis -----		
			I	R	C1	C2	I	R	C
			in ⁴ (mm ⁴)	in (mm)	in (mm)	in (mm)	in ⁴ (mm ⁴)	in (mm)	in (mm)
F20P/V-1000	0.47 0.7	0.61 3.9	0.1 4.2	0.4 10.2	0.51 13.0	0.62 15.748	0.22 9.2	0.6 15.2	0.75 19.1
F20P/V-1100	0.94 1.4	1.22 7.9	0.42 17.5	0.59 15.0	1.13 28.7	1.13 28.702	0.44 18.3	0.6 15.2	0.75 19.1

F20P/V-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
	Load Lbs (kg)	Deflection In (mm)	Load Lbs (kg)	Deflection In (mm)	
12	1,629	0.151	359	0.033	2,759
305	739	3.8	163	0.8	1,251
18	1,086	0.340	160	0.050	2,351
457	493	8.6	73	1.3	1,066
24	815	0.605	90	0.067	1,862
610	370	15.4	41	1.7	845
30	652	0.945	57	0.083	1,298
762	296	24.0	26	2.1	589
36	543	1.360	40	0.100	901
914	246	34.5	18	2.5	409
48	407	2.418	22	0.133	507
1,219	185	61.4	10	3.4	230
60	326	3.779	14	0.167	324
1,524	148	96.0	6	4.2	147
72	272	5.441	10	0.200	225
1,829	123	138.2	5	5.1	102

F20P/V-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
	Load Lbs (kg)	Deflection In (mm)	Load Lbs (kg)	Deflection In (mm)	
12	3,804	0.082	1,556	0.033	5,961
305	1,725	2.1	706	0.8	2,704
18	2,536	0.183	691	0.050	5,509
457	1,150	4.6	313	1.3	2,499
24	1,902	0.326	389	0.067	4,979
610	863	8.3	176	1.7	2,258
30	1,522	0.509	249	0.083	4,375
762	690	12.9	113	2.1	1,984
36	1,268	0.734	173	0.100	3,698
914	575	18.6	78	2.5	1,677
48	951	1.304	97	0.133	2,254
1,219	431	33.1	44	3.4	1,022
60	761	2.038	62	0.167	1,442
1,524	345	51.8	28	4.2	654
72	634	2.935	43	0.200	1,001
1,829	288	74.5	20	5.1	454

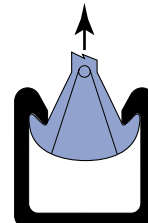
F20P/V-1000, F20P/V-1100

Flange Loading

*Values shown represent a
3:1 safety factor

Pull-Out Strength*	
Part Number	Lbs (kg)
F20V-1000/1100	213 97
F20P-1000/1100	213 97

FLANGE LOAD

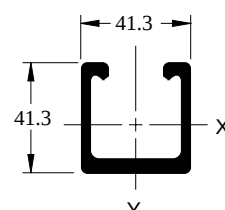
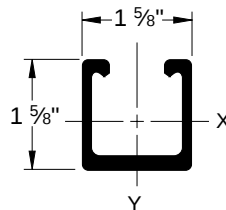
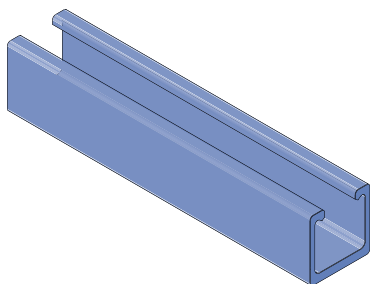




F20P/V-2000 SST

Heavy Duty Single Channel - SST Profile

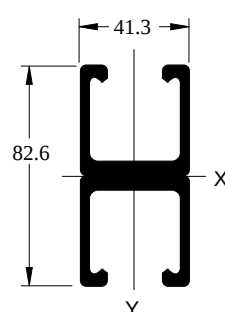
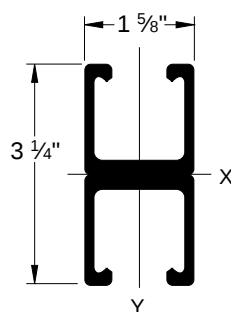
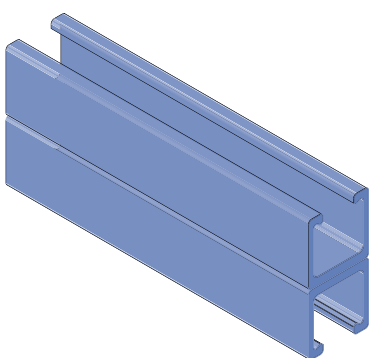
Wt/100 Ft: 82 Lbs (122 kg/100 m)



F20P/V-2100 SST

Heavy Duty Back-to-Back Channel - SST Profile

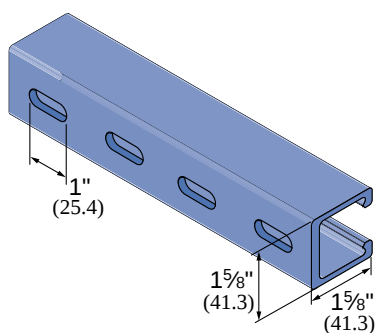
Wt/100 Ft: 164 Lbs (244 kg/100 m)



F20P/V-2200 SST

Slotted Channel

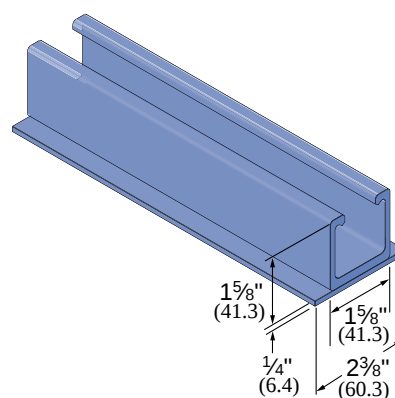
Wt/100 Ft: 82 Lbs (122 kg/100 m)



F20P/V-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.

F20P/V-2000

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)		Maximum Column Load Lbs (kg)
	Poly Lbs (kg)	Vinyl Lbs(kg)	Poly In (mm)	Vinyl In (mm)	Poly Lbs(kg)	Vinyl Lbs (kg)	Poly Lbs (kg)	Vinyl Lbs (kg)	
12	1,720	2,150	0.07	0.07	—	—	—	—	3,650
305	780	975	1.8	1.8	—	—	—	—	1,655.6
18	1,150	1,440	0.15	0.17	—	—	—	—	3,370
457	522	653	3.8	4.3	—	—	—	—	1,528.6
24	860	1,080	0.27	0.30	810	910	—	—	2,960
610	390	490	6.9	7.6	367.4	412.8	—	—	1,342.6
30	690	870	0.42	0.48	410	460	—	—	2,450
762	313	395	10.7	12.2	186.0	208.7	—	—	1,111.3
36	580	730	0.61	0.69	240	270	480	540	1,800
914	263	331	15.5	17.5	108.9	122.5	217.7	244.9	816.5
48	430	540	1.07	1.20	100	115	200	230	1,010
1,219	195	245	27.2	30.5	45.4	52.2	90.7	104.3	458.1
60	350	440	1.70	1.91	60	70	120	135	260
1,524	159	200	43.2	48.5	27.2	31.8	54.4	61.2	117.9
72	290	370	2.44	2.78	30	34	60	70	NR
1,829	132	168	62.0	70.6	13.6	15.4	27.2	31.8	NR

F20P/V-2100

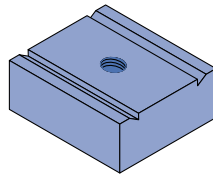
Channel Beam/Column Loading

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)		Maximum Column Load Lbs (kg)
	Poly Lbs (kg)	Vinyl Lbs(kg)	Poly In (mm)	Vinyl In (mm)	Poly Lbs(kg)	Vinyl Lbs (kg)	Poly Lbs (kg)	Vinyl Lbs (kg)	
12	5,080	6,350	0.04	0.04	—	—	—	—	7,300
305	2,304	2,880	1.0	1.0	—	—	—	—	3,311.2
18	3,390	4,240	0.09	0.10	—	—	—	—	6,740
457	1,538	1,923	2.3	2.5	—	—	—	—	3,057.2
24	2,540	3,180	0.16	0.17	—	—	—	—	5,920
610	1,152	1,442	4.1	4.3	—	—	—	—	2,685.3
30	2,040	2,550	0.24	0.27	—	2,350	—	—	4,900
762	925	1,157	6.1	6.9	—	1,065.9	—	—	2,222.6
36	1,700	2,130	0.35	0.39	1,220	1,370	—	—	3,600
914	771	966	8.9	9.9	553.4	621.4	—	—	1,632.9
48	1,270	1,590	0.62	0.69	520	590	1,040	1,170	2,020
1,219	576	721	15.7	17.5	235.9	267.6	471.7	530.7	916.3
60	1,020	1,280	0.97	1.09	270	310	540	610	520
1,524	463	581	24.6	27.7	122.5	140.6	244.9	276.7	235.9
72	850	1,070	1.40	1.57	160	180	320	360	NR
1,829	386	485	35.6	39.9	72.6	81.6	145.1	163.3	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.



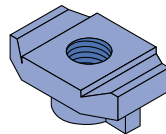
Material: glass-reinforced polyurethane.

Part Number	Size	Thread Shear Lbs (kg)*	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F375PU-CNHD	3/8"-16	1,400 635	8 11	5.7 2.6
F500PU-CNHD	1/2"-13	1,400 635	8 11	5.3 2.4
F625PU-CNHD	5/8"-11	1,400 635	10 14	5.1 2.3
F750PU-CNHD	3/4"-10	1,400 635	10 14	4.4 2.0
F10PU-CNMHD	10 mm	1,400 635	8 11	5.8 2.6
F12PU-CNMHD	12 mm	1,400 635	8 11	5.5 2.5
F16PU-CNMHD	16 mm	1,400 635	10 14	5.3 2.4
F20PU-CNMHD	20 mm	1,400 635	10 14	4.4 2.0

*Thread shear values shown represent a 3:1 safety factor.

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.

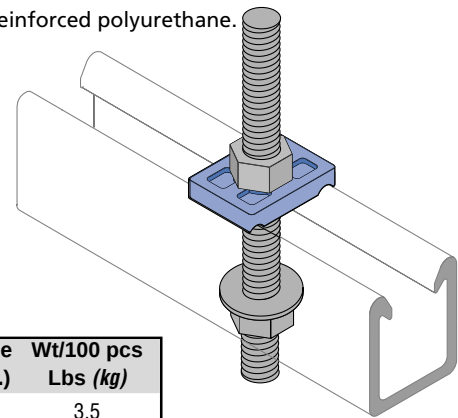
Part Number	Size	Thread Shear Lbs (kg)*	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F250PU-CN	1/4"-20	460 209	2 3	1.8 0.8
F312PU-CN	5/16"-18	460 209	2 3	1.7 0.8
F375PU-CN	3/8"-16	460 209	3 4	1.8 0.8
F500PU-CN	1/2"-13	460 209	3 4	1.4 0.6
F10PU-CN	10 mm	460 209	3 4	1.7 0.8
F12PU-CN	12 mm	460 209	3 4	1.4 0.6
F10PU-CNS	#10 Screw	460 209	N/A	1.9 0.9

*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.

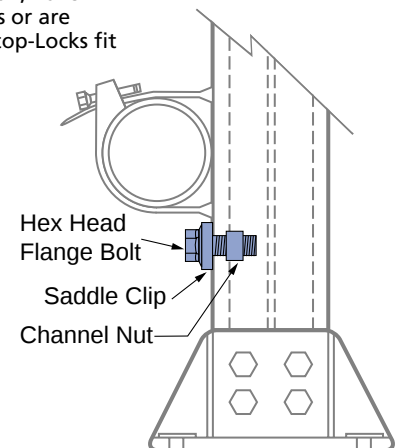


Part Number	Size (In.)	Wt/100 pcs Lbs (kg)
F200-4226	3/8"	3.5 1.6
F200-4217	1/2"	2.5 1.1
F200-4341	5/8"	3.0 1.4
F200-4342	3/4"	2.5 1.1

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 (kg)*	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F200-4227	3/8"	200 91	7 9	6.3 2.9
F200-4219	1/2"	220 100	12 16	6.4 2.9
F200-4343	5/8"***	250 113	15 20	11.0 5.0

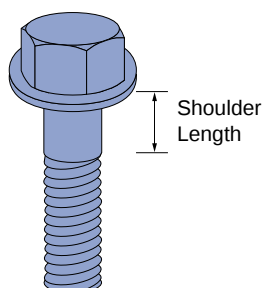
* Force resistance values shown represents a 3:1 safety factor.

** Supplied with a heavy duty channel nut for use only with the heavy duty series 2000 channel.

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.



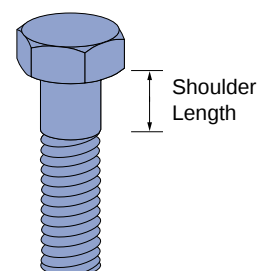
Part Number	Size (in.)	Thread Shear Lbs (kg)*	Shank Shear Lbs (kg)*	Shoulder Length In (mm)	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F250PU-075	1/4 x 3/4	110 50	210 95	Full Thread	0.8 1	.4 0.2
F250PU-100	1/4 x 1	110 50	210 95	Full Thread	0.8 1	.5 .02
F250PU-150	1/4 x 1 1/2	110 50	210 95	1/2 13	0.8 1	.6 0.3
F500PU-125	1/2 x 1 1/4	450 204	870 395	Full Thread	8 11	1.0 0.5
F500PU-150	1/2 x 1 1/2	450 204	870 395	Full Thread	8 11	1.1 .05
F500PU-200	1/2 x 2	450 204	870 395	3/4 19	8 11	1.3 0.6
F500PU-250	1/2 x 2 1/2	450 204	870 395	Full Thread	8 11	1.6 0.7
F500PU-300	1/2 x 3	450 204	870 395	1 25	8 11	1.8 0.8
F500PU-350	1/2 x 3 1/2	450 204	870 395	2 3/16 56	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.



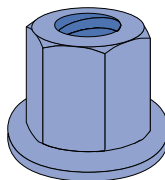
Part Number	Size (in.)	Thread Shear Lbs (kg)*	Shank Shear Lbs (kg)*	Shoulder Length In (mm)	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F375PU-125	3/8 x 1 1/4	250 113	470 213	Full Thread	3 4	1.0 0.5
F375PU-150	3/8 x 1 1/2	250 113	470 213	1/4 6	3 4	1.1 0.5
F375PU-200	3/8 x 2	250 113	470 213	1/2 13	3 4	1.3 0.6
F375PU-250	3/8 x 2 1/2	250 113	470 213	3/4 19	3 4	1.6 0.7
F375PU-300	3/8 x 3	250 113	470 213	1 25	3 4	1.8 0.8
F625PU-125	5/8 x 1 1/4	700 318	1,360 617	1/4 6	12 16	2.5 1.1
F625PU-150	5/8 x 1 1/2	700 318	1,360 617	1/4 6	12 16	2.8 1.3
F625PU-200	5/8 x 2	700 318	1,360 617	1/4 6	12 16	3.2 1.5
F625PU-250	5/8 x 2 1/2	700 318	1,360 617	1/4 6	12 16	3.4 1.5
F625PU-300	5/8 x 3	700 318	1,360 617	1/4 6	12 16	3.9 1.8
F625PU-350	5/8 x 3 1/2	700 318	1,360 617	1 1/4 6	12 16	5.5 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.

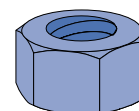
Material: glass-reinforced polyurethane.



Part Number	Size (in.)	Thread Shear Lbs (kg)*	Height In (mm)	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F375PU-FN-000	3/8-16	500 227	0.750 19.1	3 4	0.8 0.4
F500PU-FN-000	1/2-13	1,200 544	0.855 21.7	8 11	1.6 0.7
F625PU-FN-000	5/8-11	2,200 998	1.220 31.0	12 16	3.5 1.6
F750PU-FN-000	3/4-10	2,900 1,315	1.590 40.4	15 20	5.5 2.5

*Thread shear values shown represent a 3:1 safety factor.

Hex Nuts



Part Number	Size (in.)	Thread Shear Lbs (kg)*	Height In (mm)	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F250PU-000	1/4-20	150 68	0.218 5.5	0.8 1	0.1 0.05
F375PU-000	3/8-16	460 209	0.328 8.3	3 4	0.3 0.1
F500PU-000	1/2-13	800 363	0.437 11.1	8 11	0.5 0.2
F625PU-000	5/8-11	1,000 454	0.546 13.9	12 16	1.5 0.7

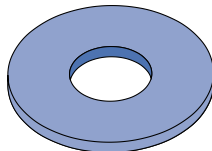
*Thread shear values shown represent a 3:1 safety factor.



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)
F250E-999	1/4	0.49 12.4	0.1 0.05
F375E-999	3/8	1.00 25.4	0.1 0.05
F500E-999	1/2	1.25 31.8	0.5 0.2
F625E-999	5/8	1.50 38.1	0.5 0.2
F750E-999	3/4	1.50 38.1	1.0 0.5
F1000E-999	1	2.25 57.2	1.5 0.7

F50PU-500SP

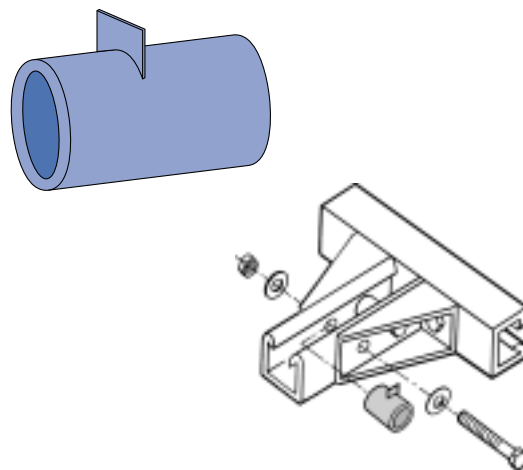
Channel Spacers

Wt/100 pcs: 2.0 Lbs (.91 kg)

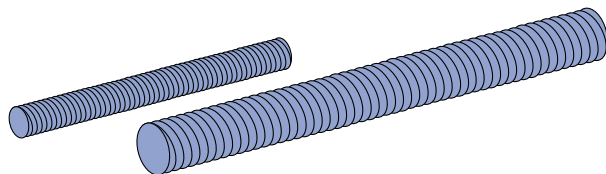
Channel spacers are designed to prevent wall compression under heavy loading conditions. Such loading occurs during the torquing of hardware for channel fittings.

The spacers are designed to be used only with 1 1/2" channels and will accommodate 3/8" and 1/2" bolts.

Material: molded from polyurethane



Threaded Rod



Material: pultruded vinyl ester resin and is gray in color.

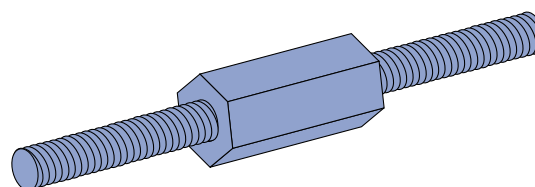
Part Number	Size (in.)	Weight Lbs (kg)	Thread Shear Lbs (kg)*	Torque Ft/Lbs (N•m)	Wt/100 pcs 4' in Len. Lbs (kg)
F200-3827	3/8-16	0.07 0.03	470 213	5 7	35 15.9
F200-3828	1/2-13	0.12 0.05	570 259	10 14	57 25.9
F200-3829	5/8-11	0.18 0.08	1,600 726	40 54	91 41.3
F200-3830	3/4-10	0.28 0.13	1,700 771	50 68	133 60.3
F200-3831	1-8	0.50 0.23	3,000 1,361	60 81	200 90.7

* 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)

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 50 pieces.

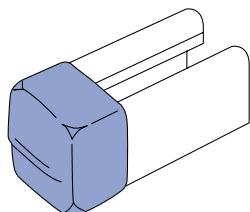


Part Number	Size (in.)	Length In (mm)	Thread Shear Lbs (kg)*	Wt/100 pcs Lbs (kg)
F200-3840	3/8-16	2 1/4 57.2	800 363	6.5 2.9
F200-3841	1/2-13	2 1/4 57.2	870 395	6.0 2.7
F200-3842	5/8-11	2 1/4 57.2	1,500 680	13.0 5.9
F200-3843	3/4-10	2 1/4 57.2	1,500 680	11.0 5.0

* Thread shear values shown represent a 3:1 safety factor.

FAIC-EC**Channel End Cap**

Wt/100 pcs: 3.4 Lbs (1.5 kg)

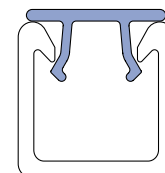
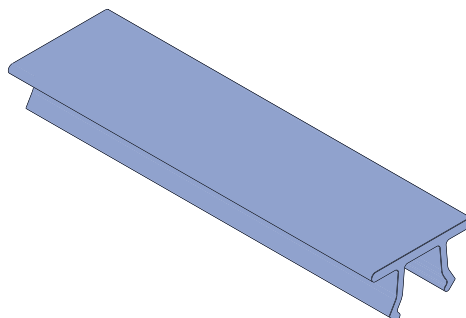


Material: red PVC and designed for 1½" channel.

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.

F20E-5000**Channel Capping Strip**

Wt/100 Ft: 5 Lbs (7.4 kg/100 m)



Supplied in 10 foot lengths.

Material: PVC

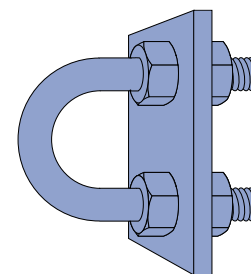
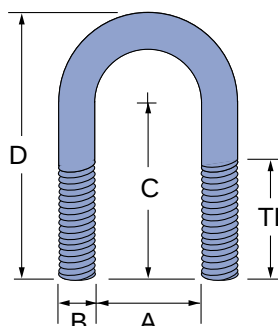
Installs simply by pressing it onto the channel opening. It is designed to be used when a cover is desired for the channel opening (such as concrete embedment channel).

Nonmetallic U-Bolts

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



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 (kg)*	Torque In/Lbs (N•m)	Wt/100 pcs Lbs (kg)
FUB-050	½	0.937 23.8	0.375 9.5	1.568 39.8	2.412 61.3	1.25 31.8	135 61	40 5	3 1.4
FUB-075	¾	1.125 28.6	0.375 9.5	1.662 42.2	2.600 66.0	1.25 31.8	135 61	40 5	3 1.4
FUB-100	1	1.375 34.9	0.375 9.5	1.787 45.4	2.850 72.4	1.25 31.8	135 61	40 5	4 1.8
FUB-125	1¼	1.687 42.8	0.375 9.5	1.943 49.4	3.162 80.3	1.25 31.8	135 61	40 5	4 1.8
FUB-150	1½	2.000 50.8	0.375 9.5	2.100 53.3	3.475 88.3	1.25 31.8	135 61	40 5	5 2.3
FUB-200	2	2.437 61.9	0.500 12.7	2.468 62.7	4.187 106.3	1.50 38.1	135 61	80 9	10 4.5
FUB-250	2½	2.937 74.6	0.500 12.7	2.718 69.0	4.687 119.0	1.50 38.1	135 61	80 9	11 5.0
FUB-300	3	3.562 90.5	0.500 12.7	3.031 77.0	5.312 134.9	1.50 38.1	135 61	80 9	14 6.4
FUB-350	3½	4.062 103.2	0.500 12.7	3.281 83.3	5.812 147.6	1.50 38.1	135 61	80 9	15 6.8
FUB-400	4	4.562 115.9	0.500 12.7	3.531 89.7	6.312 160.3	1.50 38.1	135 61	80 9	16 7.3
FUB-600	6	6.750 171.5	0.625 15.9	5.750 146.1	9.875 250.8	3.25 82.6	135 61	120 14	17 7.7

*Torque and load values shown represent a 3:1 safety factor.



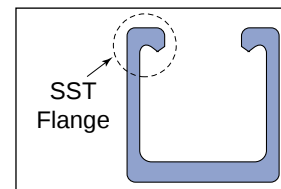
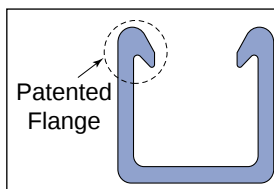
Channel Fittings

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.

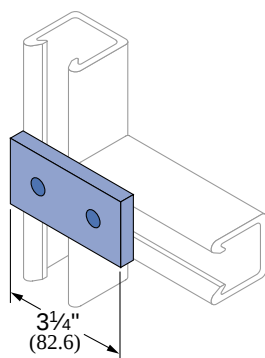
Material (Fabricated Fittings): Either polyester (P Series) or vinyl ester (V Series) material.

Material (Molded Fittings): All molded fittings with the exception of the post bases are molded in polyurethane.

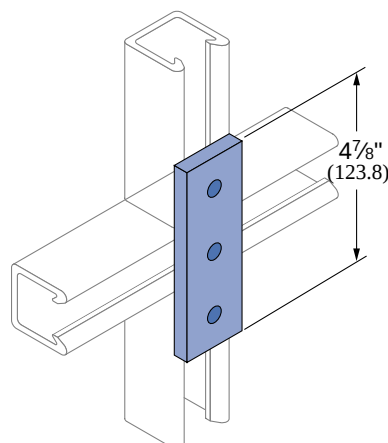
Note: The drawings for all fittings are shown with the patented flange profile, however they can be used with either channel profile.



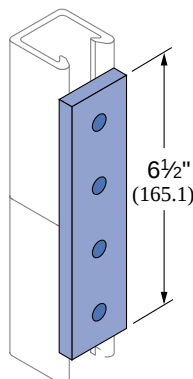
F20P-2500, F20V-2500 Wt/100 pcs: 12 Lbs (5.4 kg)



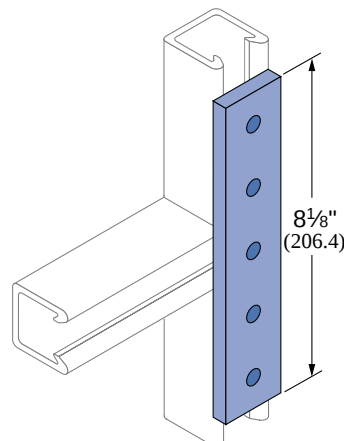
F20P-2502, F20V-2502 Wt/100 pcs: 17 Lbs (7.7 kg)



F20P-2504, F20V-2504 Wt/100 pcs: 24 Lbs (10.9 kg)



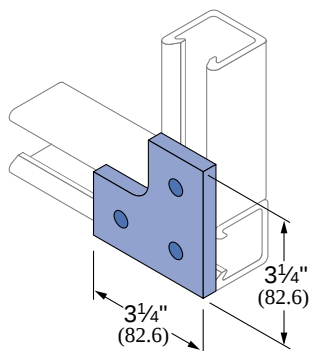
F20P-2506, F20V-2506 Wt/100 pcs: 32 Lbs (14.5 kg)



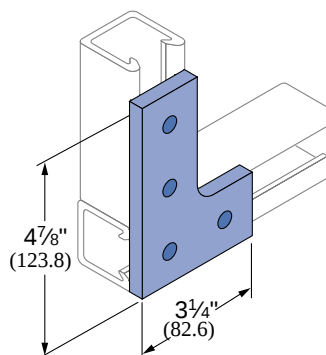
Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10.3 mm) , Accommodates 3/8" hardware; Hole Spacing - On Center: 1 5/8" (41 mm); Width: 1 5/8" (41 mm); Thickness: 3/8" (9.5 mm)

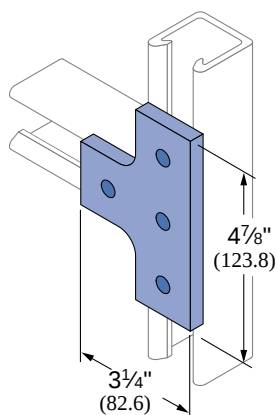
F20P-2508, F20V-2508 Wt/100 pcs: 17 Lbs (7.7 kg)



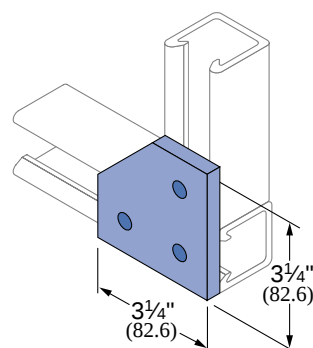
F20P-2510, F20V-2510 Wt/100 pcs: 25 Lbs (11.3 kg)



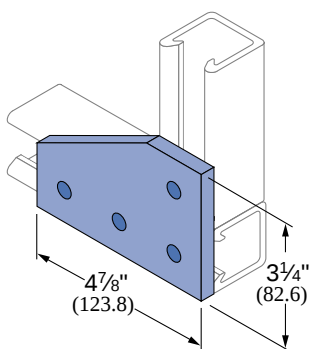
F20P-2512, F20V-2512 Wt/100 pcs: 26 Lbs (11.8 kg)



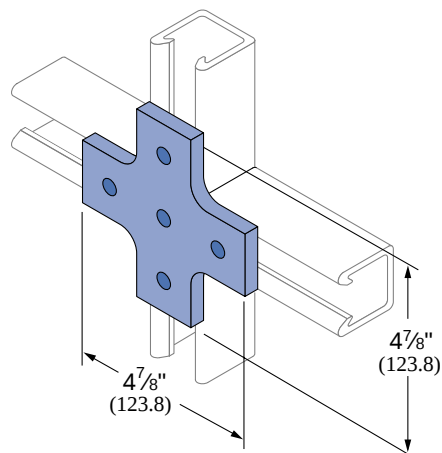
F20P-2514, F20V-2514 Wt/100 pcs: 20 Lbs (9.1 kg)



F20P-2516, F20V-2516 Wt/100 pcs: 32 Lbs (14.5 kg)



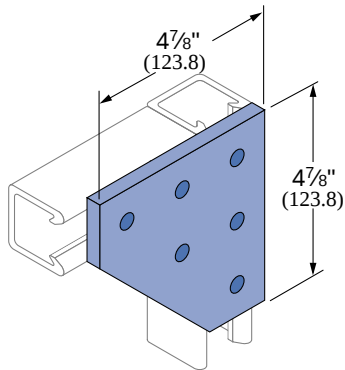
F20P-2518, F20V-2518 Wt/100 pcs: 33 Lbs (15.0 kg)



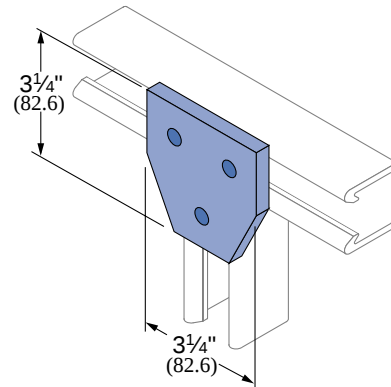
Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10.3 mm) , Accommodates 3/8" hardware; Hole Spacing - On Center: 1 5/8" (41 mm); Width: 1 5/8" (41mm); Thickness: 3/8" (9.5mm)

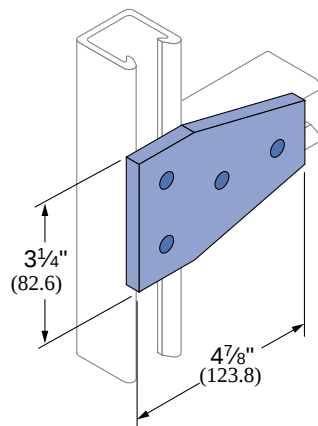
F20P-2520, F20V-2520 Wt/100 pcs: 45 Lbs (20.4 kg)



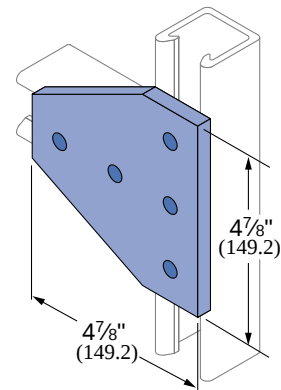
F20P-2522, F20V-2522 Wt/100 pcs: 21 Lbs (9.5 kg)



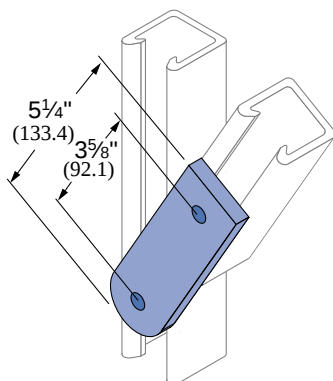
F20P-2524, F20V-2524 Wt/100 pcs: 32 Lbs (14.5 kg)



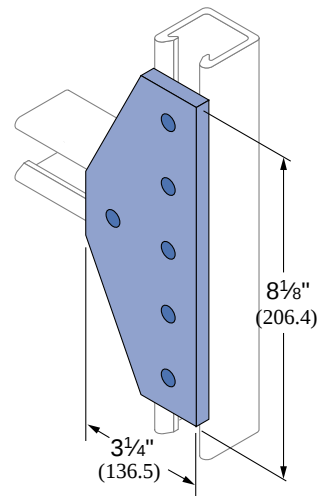
F20P-2526, F20V-2526 Wt/100 pcs: 45 Lbs (20.4 kg)



F20P-2528, F20V-2528 Wt/100 pcs: 20 Lbs (9.1 kg)



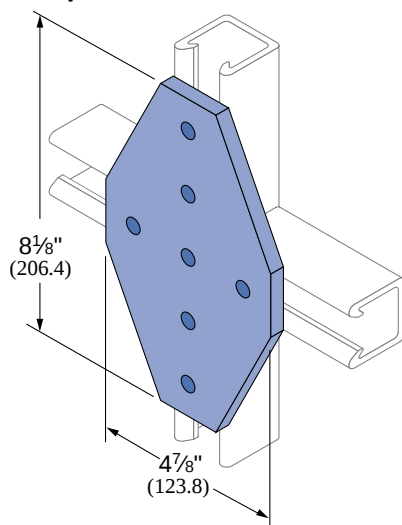
F20P-2530, F20V-2530 Wt/100 pcs: 50 Lbs (22.7 kg)



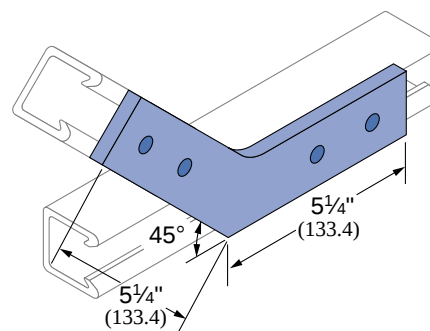
Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10.3 mm) , Accommodates 3/8" hardware; Hole Spacing - On Center: 1 5/8" (41 mm); Width: 1 5/8" (41 mm); Thickness: 3/8" (9.5 mm)

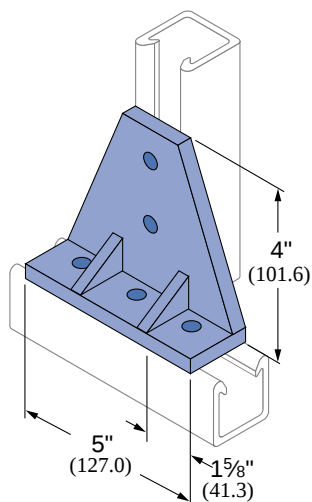
F20P-2534, F20V-2534 Wt/100 pcs: 77 Lbs (34.9 kg)



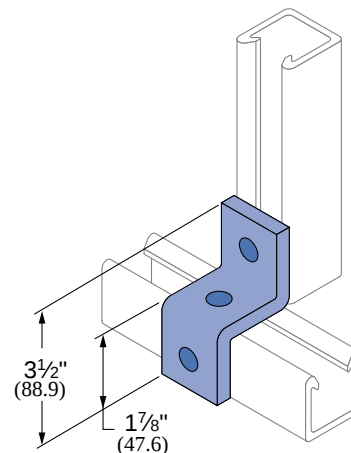
F20P-2540, F20V-2540 Wt/100 pcs: 41 Lbs (18.6 kg)



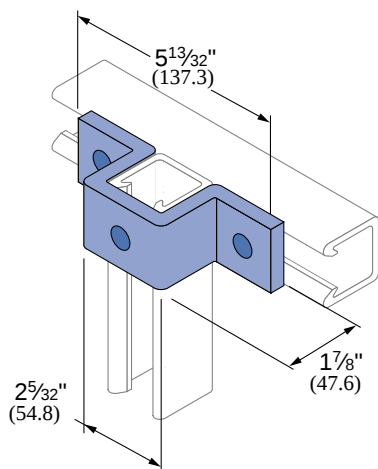
F50PU-2538 Wt/100 pcs: 57 Lbs (26.0 kg)



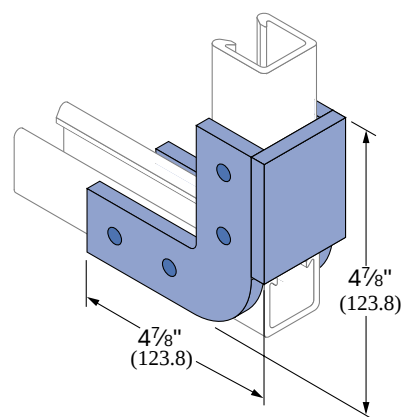
F50PU-2611 Wt/100 pcs: 9 Lbs (4.1 kg)



F50PU-2613 Wt/100 pcs: 16 Lbs (7.3 kg)



F50PU-1508 (1 1/2"), F50PU-2008 (1 5/8")
Wt/100 pcs: 27 Lbs (12.2 kg)



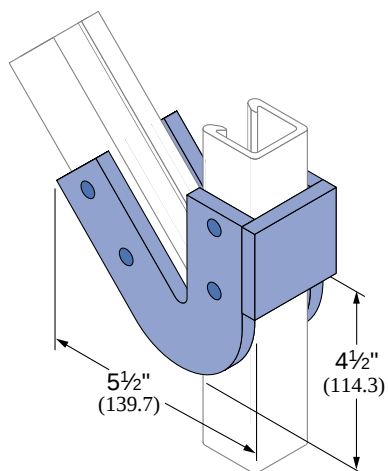
Standard Dimensions for 1 5/8" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10.3 mm) , Accommodates 3/8" hardware; Hole Spacing - On Center: 1 5/8" (41 mm); Width: 1 5/8" (41 mm); Thickness: 3/8" (9.5 mm)



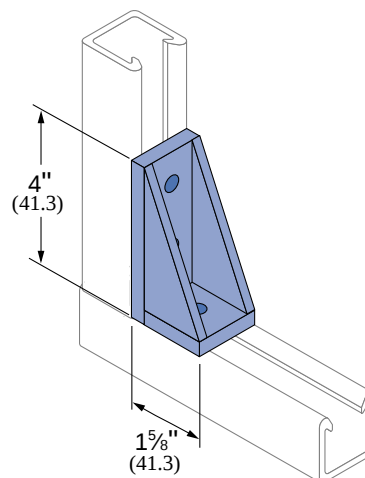
F50PU-2045 (1⁵/₈")

Wt/100 pcs: 35 Lbs (15.9 kg)



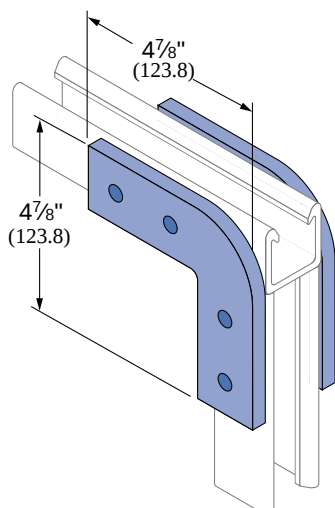
F50PU-2636

Wt/100 pcs: 14 Lbs (6.4 kg)



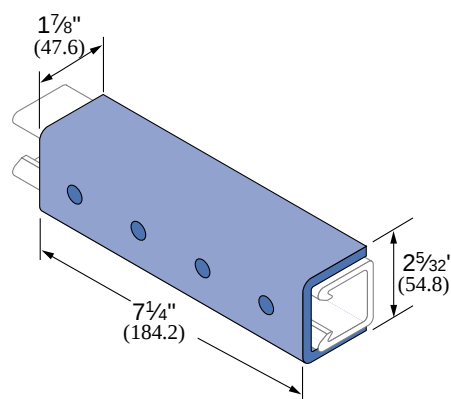
F50PU-2090 (1⁵/₈")

Wt/100 pcs: 35 Lbs (15.9 kg)



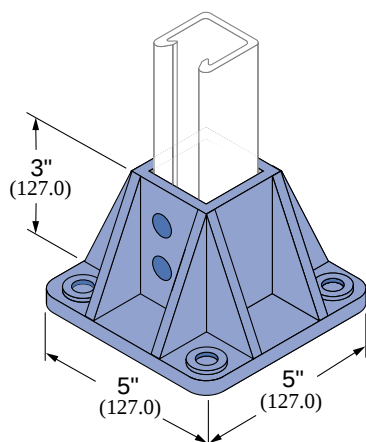
F50PU-2616

Wt/100 pcs: 51 Lbs (23.1 kg)



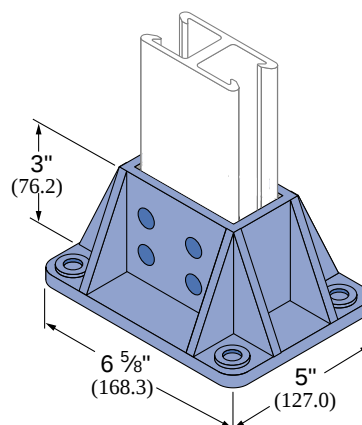
F20PU-5853 (1⁵/₈"), F20PU-5855 (1¹/₈")

Wt/100 pcs: 71 Lbs (32.2 kg)



F20PU-5903 (1⁵/₈"), F20PU-5905 (1¹/₈")

Wt/100 pcs: 86 Lbs (39.0 kg)



Standard Dimensions for 1⁵/₈" (41 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

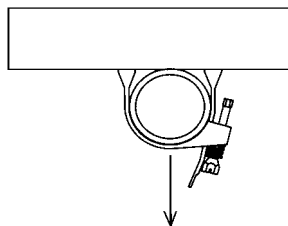
Hole Diameter: 1³/₃₂" (10.3 mm) , Accommodates 3/8" hardware; Hole Spacing - On Center: 1⁵/₈" (41 mm); Width: 1⁵/₈" (41 mm); Thickness: 3/8" (9.5 mm)

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

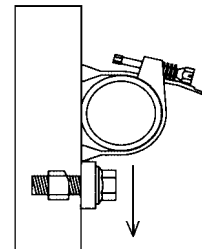
The design load shown represents pipes supported below the strut. The design loads shown are based on a minimum ultimate failure safety factor of 3:1.



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.

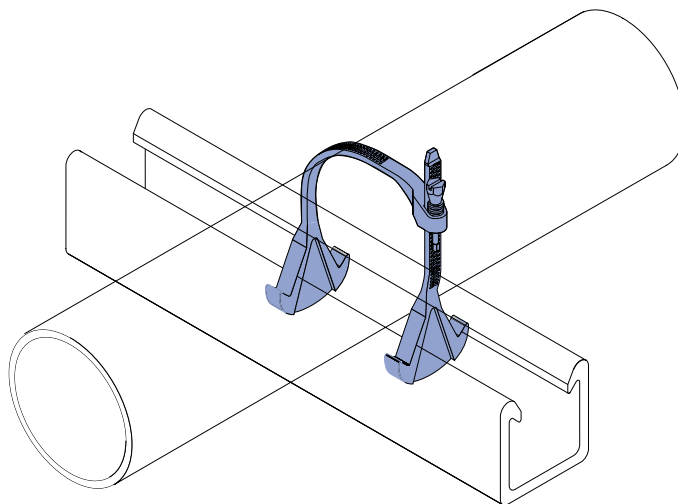
Design loads are based on a minimum clamp slip safety factor of 3:1. It is recommended that stop lock assemblies be used for all vertical pipe support applications.



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.



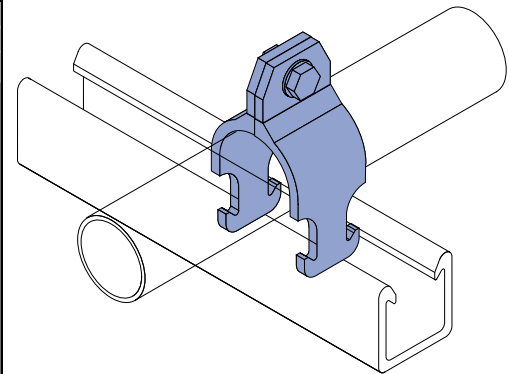
Part Number	O.D. Pipe Size (in.)	Design Load		Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
		Type 1 Lbs (kg)	Type 2 Lbs (kg)		
200-3100	½–1½	135 61	65 29	0.8 1	3 1.4
200-3110	1½–2¼	135 61	65 29	3 4	5 2.3
200-3120	2¼–3¼	145 66	70 32	3 4	5 2.3
200-3130	3–4	215 98	70 32	3 4	8 3.6
200-3140	4–6½	215 98	70 32	3 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		Wt/100 pcs
	Nominal Size (in.)	& Rigid Metal In (mm)	Type 1 Lbs (kg)	Type 2 Lbs (kg)	FRP Bolt Size (in.)	Torque Ft/Lbs (N•m)	
FPCR-050	½	0.840 21.336	225 102	90 41	¾ x 1¼	3 4	3 1.4
FPCR-075	¾	1.050 26.67	225 102	90 41	¾ x 1¼	3 4	3 1.4
FPCR-100	1	1.315 33.401	225 102	90 41	¾ x 1¼	3 4	4 1.8
FPCR-125	1¼	1.660 42.164	225 102	90 41	¾ x 1¼	3 4	5 2.3
FPCR-150	1½	1.900 48.26	225 102	90 41	¾ x 1¼	3 4	5 2.3
FPCR-200	2	2.375 60.325	225 102	90 41	¾ x 1¼	3 4	5 2.3
FPCR-250	2½	2.875 73.025	225 102	90 41	¾ x 1¼	3 4	7 3.2
FPCR-300	3	3.500 88.9	225 102	90 41	¾ x 1¼	3 4	10 4.5
FPCR-400	4	4.500 114.3	300 136	125 57	¾ x 1¼	3 4	12 5.4
FPCR-600	6	6.625 168.275	300 136	125 57	¾ x 1¼	3 4	15 6.8
FPCR-800	8	8.625 219.075	300 136	125 57	¾ x 1¼	3 4	18 8.2



Rigid Pipe Clamps resemble the more traditional style of pipe clamps and are sized based on the pipe inside diameter or nominal size.

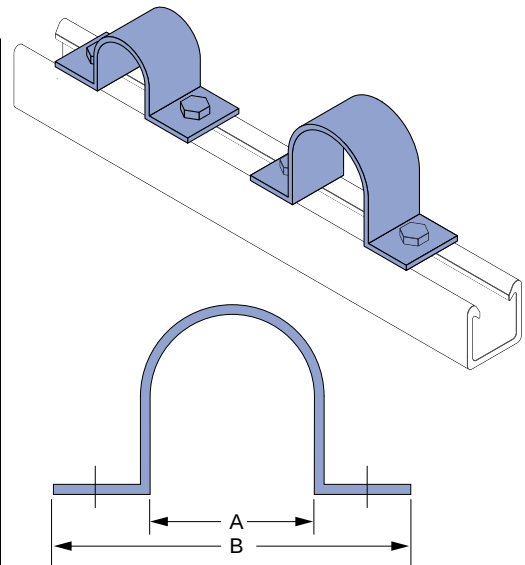
Polyurethane clamps are recommended for applications up to 160°F. For high temperature applications (up to 230°F).

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.	Dim. A In (mm)	Dim. B In (mm)	Bolt Size (in.)	Material Thick. In (mm)	Design Load		Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
					Type 1 Lbs (kg)	Type 2 Lbs (kg)		
FPS200	2.375 60.33	6.375 161.93	½	¼	135 61	50 23	4 5	14 6.4
FPS250	2.875 73.03	6.875 174.63	½	¼	135 61	50 23	4 5	17 7.7
FPS300	3.500 88.90	7.500 190.50	½	¼	135 61	50 23	4 5	20 9.1
FPS350	4.000 101.60	8.000 203.20	½	¼	135 61	50 23	4 5	33 15.0
FPS400	4.500 114.30	8.500 215.90	½	¼	175 79	60 27	4 5	23 10.4
FPS500	5.563 141.30	9.563 242.90	½	¼	175 79	60 27	4 5	39 17.7
FPS600	6.625 168.28	10.625 269.88	½	¼	175 79	60 27	4 5	39 17.7
FPS800	8.625 219.08	12.625 320.68	½	¼	225 102	125 57	4 5	51 23.1
FPS1000	10.750 273.05	15.750 400.05	¾	¼	225 102	125 57	10 14	77 34.9
FPS1200	12.750 323.85	16.250 412.75	¾	¼	225 102	125 57	10 14	83 37.6
FPS1400	14.000 355.60	18.000 457.20	¾	¾	250 113	150 68	10 14	125 56.7
FPS1600	16.000 406.40	20.000 508.00	¾	¾	250 113	150 68	10 14	143 64.9
FPS1800	18.000 457.20	23.000 584.20	¾	¾	250 113	150 68	10 14	160 72.6



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.

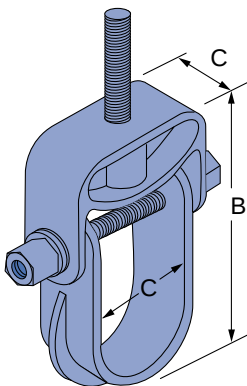
For extreme chemical environments, the straps can be manufactured from vinyl ester resin. Larger diameter straps for special applications are also available. Contact the factory for pricing and availability of vinyl ester and large diameter straps. Two hole pipe straps should not be torqued above recommended values.

*Design loads shown represent a 3:1 safety factor.

Notes:

- (1) Bolts and channel nuts are sold separately.
- (2) When bolting onto 1½" channel a 1¼" long bolt is req'd.

Molded Clevis Hangers

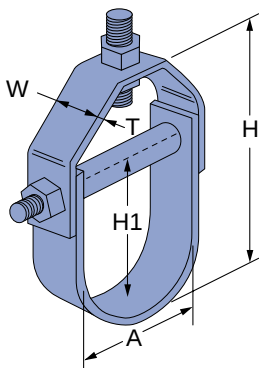


Part Number	Nominal Diameter In (mm)	Max. Pipe O.D. In (mm)	"A" Dim. In (mm)	"B" Dim. In (mm)	"C" Dim. In (mm)	Hanger Rod In (mm)	Load* Lbs (kg)	Wt/100 pcs Lbs (kg)
FCVHPU-100	½ 12.7	1 25.4	1.500 38.1	4.25 108.0	1.25 31.8	½ 12.7	670 304	29 13.2
FCVHPU-150	¾ 31.8	1½ 38.1	2.000 50.8	5.14 130.6	1.25 31.8	½ 12.7	670 304	40 18.1
FCVHPU-200	1½ 38.1	2 50.8	2.500 63.5	6.52 165.6	1.25 31.8	½ 12.7	730 331	43 19.5
FCVHPU-400	2½ 63.5	4 101.6	5.125 130.2	10.00 254.0	1.50 38.1	½ 12.7	1,150 522	129 58.5
FCVHPU-600	4½ 114.3	6 152.4	6.750 171.5	12.33 313.2	1.50 38.1	½ 12.7	1,170 531	168 76.2

*Design load values shown represent a 3:1 safety factor.

Material: glass-reinforced polyurethane.

Fabricated Clevis Hangers



Material: glass-reinforced polyester resin.

Part Number	Size Range In (mm)	 Dimensions - In (mm)					Hanger Rod	Trans Rod	Spreader Rod O.D.	Loads*	Wt/100 pcs
	A	T	H	H1	W	In (mm)	In (mm)	In (mm)	Lbs (kg)	Lbs (kg)	
F100-1500	1-1½ 25-38	⅜ 3	2¾ 70	1⅞ 48	1 ½ 38	½ 13	¾ 10	½ 13	60 27	21 9.5	
F100-1501	1½-2 38-51	⅜ 3	3½ 89	2¾ 60	1 ½ 38	½ 13	¾ 10	½ 13	60 27	25 11.3	
F100-1502	2-2½ 51-67	⅜ 3	4¾ 121	3 76	2 51	½ 13	¾ 10	½ 13	90 41	55 24.9	
F100-1503	2½-3¼ 64-83	⅜ 3	5½ 140	3⅝ 92	2 51	½ 13	¾ 10	½ 13	120 54	57 25.9	
F100-1504	3-3¾ 76-98	⅜ 3	7 178	4¼ 108	2 51	⅝ 16	¾ 10	½ 13	160 73	61 27.7	
F100-1505	4-5⅝ 102-130	⅜ 21	8½ 216	5⅝ 143	2 51	⅝ 16	¾ 10	½ 13	250 113	82 37.2	
F100-1506	6-7⅞ 152-181	⅜ 21	10⅞ 276	7½ 191	3 76	⅝ 16	¾ 10	½ 13	300 136	136 61.7	
F100-1507	8-9¼ 203-235	¼ 6	14 356	9¾ 248	3 76	⅝ 16	¾ 10	½ 13	350 159	189 85.7	
F100-1508	10-11⅝ 254-289	¼ 6	18 457	12 305	4 102	⅝ 16	¾ 13	¾ 19	450 204	333 151.0	
F100-1509	12-13½ 305-343	¼ 6	21½ 546	14⅞ 359	5 127	⅝ 16	¾ 13	¾ 19	600 272	350 158.8	
F100-1510	14-15¾ 356-400	¼ 6	24½ 622	16½ 419	5 127	¾ 19	¾ 13	¾ 19	700 318	872 395.5	
F100-1511	16-18 406-457	¾ 10	27¾ 695	19½ 495	6 152	¾ 19	¾ 19	1 25	750 340	1,023 464.0	
F100-1512	19-21 483-533	¾ 10	34½ 876	22½ 572	6 152	¾ 19	¾ 19	1 25	800 363	1,673 758.9	

*Design load values shown represent a 3:1 safety factor.

F200-4101

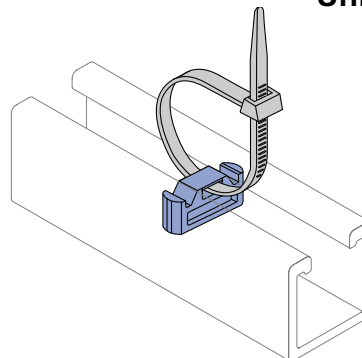
Unisert is a polyurethane nonmetallic insert which can be used with standard cable ties for securing tubing, conduit and cables to standard metal channels.

The Unisert works with all 1½" channels that are ⅜" deep or more. One size fits 12, 14 and 16 metal gauge channels.

Note: For use only with metallic channel.

Unisert Channel Insert

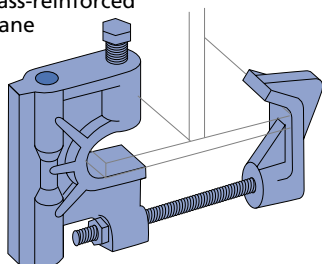
Wt/100 pcs: 1.0 Lbs (.5 kg)





Molded Beam Clamp Assembly

Material: glass-reinforced polyurethane



F375PU-BCCLP (3/8")
Beam Clip Only

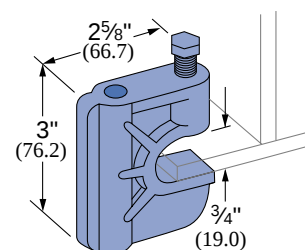
Assembly Part Number	Size In	Thread Shear Lbs (kg)*	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
F375PU-BC	3/8	400 181	10 14	3 1.4
F500PU-BC	1/2	400 181	10 14	3 1.4

*Design load values shown represent a 3:1 safety factor.

FRGBC

Material: glass-reinforced polyurethane.

Molded Beam Clamps



Part Number	Size In	Thread Shear Lbs (kg)*	Torque Ft/Lbs (N•m)	Wt/100 pcs Lbs (kg)
FRGBC-1	3/8	500 227	10 14	43 19.5
FRGBC-2	1/2	500 227	10 14	43 19.5
FRGBC-3	5/8	500 227	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 5/16" 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 5/16" long stanchion. Thickness at the slotted mounting holes is 1 7/8". 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:

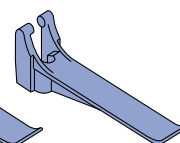
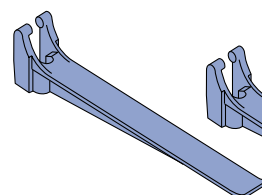
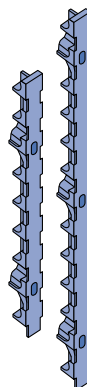
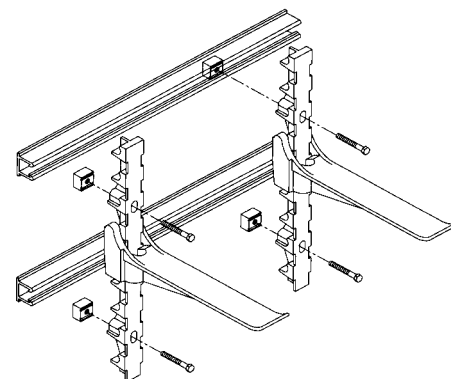
- Total load on any one arm should not exceed 800 lbs.
- The sum of the loads on an arm multiplied by their distances to the wall stanchion should not exceed 1200 in./lbs.

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 (kg)
F20N-ARM08	Arm	8 203	100 45.4	800 363
F20N-ARM14	Arm	14 1/4 362	116 52.6	800 363
F20N-ARM17	Arm	17 1/2 445	145 65.8	800 363
F20N-ARM23	Arm	23 7/8 606	186 84.4	800 363
F20N-STA21	Stanchion	21 3/8 543	149 67.6	N/A
F20N-STA33	Stanchion	33 5/16 846	231 104.8	N/A

*Design load values shown represent a 3:1 safety factor.

Chemical Compatibility Table

Chemical	Series									
	E		P		V		PU		N	
	Rigid PVC	70°-160°F	Poly /Glass	70°-160°F	Vinyl /Glass	70°-160°F	Polv	70°-160°F	Nylon	70°-160°F
Acetic Acid, Up to 10%	R	R	R	R	R	R	—	nr	nr	nr
Up to 50%	R	R	R	R	R	R	—	nr	nr	nr
Acetone, Up to 10%	nr	nr	nr	nr	nr	nr	—	R	R	R
Aluminum Hydroxide	R	R	R	R	R	R	—	nr	nr	nr
Ammonium Hydroxide (Aqueous Ammonia), Up to 5%	R	R	nr	nr	R	R	—	—	—	—
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	—	—	—	—
Ammonium Phosphate	R	R	R	nr	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	—	—	—	—
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	—	—	—	—
Calcium Hydroxide	R	R	R	nr	R	R	—	—	—	—
Calcium Hypochlorite	R	R	R	nr	R	R	—	nr	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	—	nr	nr	nr
Chromic Acid, Up to 5%	R	R	nr	nr	R	R	—	—	R	R
Copper Chloride	R	R	R	R	R	R	—	—	—	—
Copper Cyanide	R	R	R	nr	R	R	—	—	—	—
Copper Fluoride	R	R	R	nr	R	R	—	—	—	—
Copper Nitrate	R	R	R	R	R	R	—	—	—	—
Copper Sulfate	R	R	R	R	R	R	—	—	—	—
Dechlorinated Brine Storage	R	R	—	—	R	R	R	—	—	—
—										
Esters, Fatty Acid	nr	nr	R	R	R	R	—	—	—	—
Ferric Chloride	R	R	R	R	R	R	—	—	—	—
Ferrous Chloride	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
Up to 32%	nr	nr	nr	nr	R 100°	—	—	—	—	—
Formic Acid Up to 10%	R	R	nr	nr	R	R	—	nr	nr	nr
Up to 50%	R	R	nr	nr	R 100°	R	—	—	—	—
Gasoline, Aviation	R	nr	R	nr	R	R	—	—	—	—
Green Liquor, Pulp Mill	R	R	—	—	R	R	—	—	—	—
Hydrochloric Acid Up to 15%	R	R	R	nr	R	R	—	—	—	—
Up to 37%	R	R	R	nr	R	R	—	—	—	—

Chemical	Series									
	E		P		V		PU		N	
	Rigid PVC	70°-160°F	Poly /Glass	70°-160°F	Vinyl /Glass	70°-160°F	Polv	70°-160°F	Nylon	70°-160°F
Hydrofluoric Acid, Up to 10%	R	R	nr	nr	R 150°	—	—	—	—	—
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, Low pH	R	R	nr	nr	R	R	R	—	—	—
Nickel Sulfate, High pH	R	R	nr	nr	R	R	R	—	—	—
Nitric Acid, Up to 5%	R	R	nr	nr	R 150°	R	—	—	—	—
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	nr
Pickling Liquids, 3-5% H2SO4	R	R	R	R	R	R	R	—	—	—
Phosphoric Acid Super or Poly (115%, P20%) 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	R
Sodium Hypochlorite, Up to 15%	R	R	nr	nr	R 150°	R	—	nr	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
Up to 50%	R	R	nr	nr	R	R	R	—	—	—
Up to 70%	R	R	nr	nr	R	R	R	—	nr	nr
Up to 75%	nr	nr	nr	nr	R 120°	R	—	nr	nr	nr
Up to 80%	nr	nr	nr	nr	nr	nr	nr	—	nr	nr
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	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

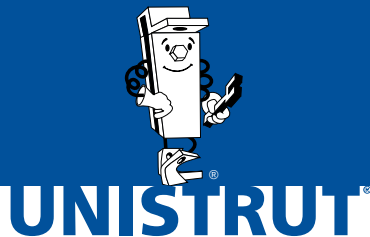
- 4.1 Channel shall incorporate Unistrut's patented flange profile design which allows full and positive interlocking contact of channel accessories and prohibits premature flange failure from torqued accessories.
- 4.2 Channel profile dimensions shall be:
- 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ " x $\frac{1}{4}$ " 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.

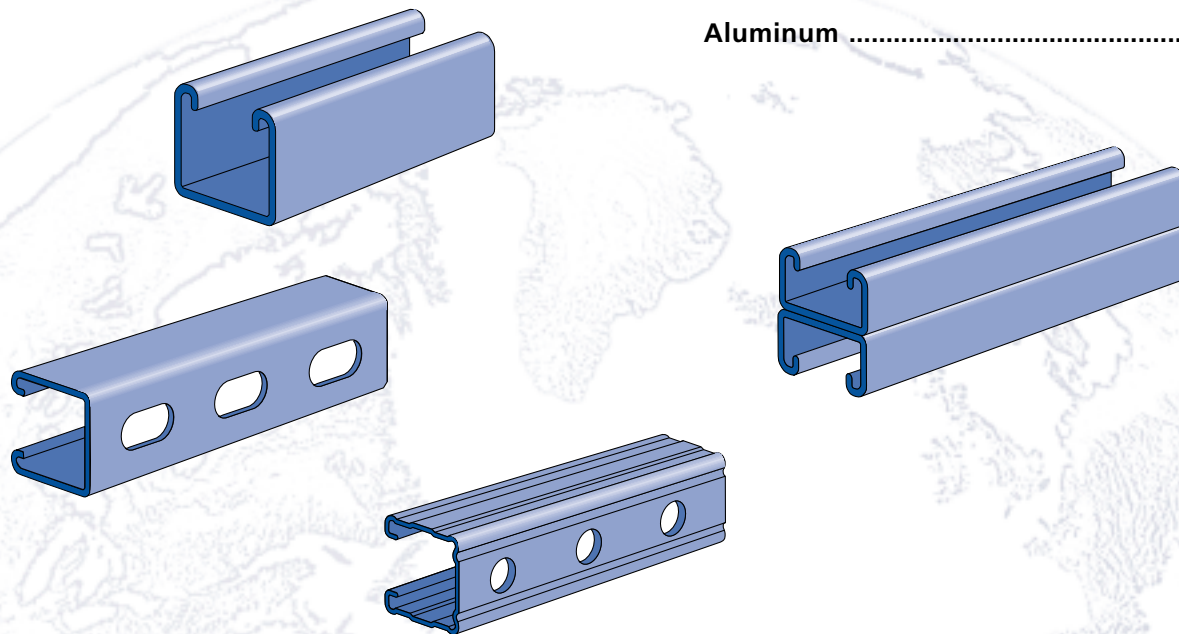
6.0 GENERAL

- 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.



SPECIAL METALS

Stainless Steel	263
Aluminum	266



MATERIAL

Stainless Steel

Channels: ASTM A 240 (Type 304)
 Sintered nuts: ASTM B783 (Type 316N2-33)
 Fittings:
 ASTM A240 (Type 304) or ASTM A276 (Type 304)
 Type 316 stainless also available for most products.
 Contact factory for specific material availability.

Aluminum

Channels (Extruded): ASTM B221 (Type 6063-T6)
 Fittings: ASTM B209 (Type 1100F or Type 5052-H32)
 Nuts: ASTM B221 (Type 6063-T5)

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	33.0%	33.0%
STAINLESS STEEL	100.0%	100.0%

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

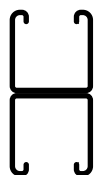
Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.



P1000 Series (12 gauge)



P1000 SS
Pg 263

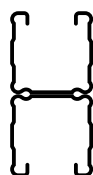


P1001 SS
Pg 263

P1100 Series (14 gauge)



P1100 SS
Pg 263



P1101 SS
Pg 263

P3000 Series (12 gauge)



P3000 SS
Pg 263

P3300 Series (12 gauge)



P3300 SS
Pg 263



P3301 SS
Pg 263

P4000 Series (16 gauge)



P4000 SS
Pg 264

P6000 Series (19 gauge)



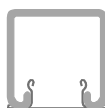
P6000 SS
Pg 264

P7000 Series (19 gauge)



P7000 SS
Pg 264

Closure Strips and End Caps



P1184 SS
Pg 264



P3184 EA
Pg 268



P1280 EA, P4280 EA,
P5580 EA Pg 268

Stainless Steel Channel Nuts



P1006 U - P1010U
Pg 265



P4006 U - P4010U
Pg 265



P5506 U - P5510U
Pg 265



P4010 UT
Pg 265



A1006 SS, A1008 SS
Pg 265



A4006 SS, A4008 SS
Pg 265

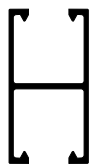


A5506 SS, A5508 SS
Pg 265

Extruded Aluminum Channels



P1000 EA
Pg 266



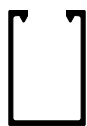
P1001 EA
Pg 266



P4000 EA
Pg 266



P4001 EA
Pg 266



P5500 EA
Pg 266



A1000 EA
Pg 267



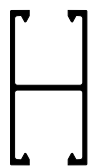
A4000 EA
Pg 267



A4001 EA
Pg 267



P6000 EA
Pg 267



P6001 EA
Pg 267

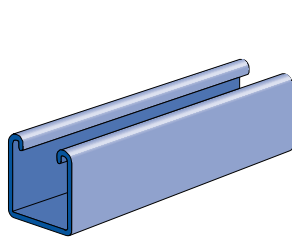


P7000 EA
Pg 268

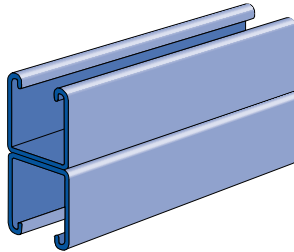


P7001 EA
Pg 268

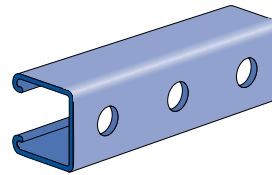
P1000 Series

**P1000 SS**

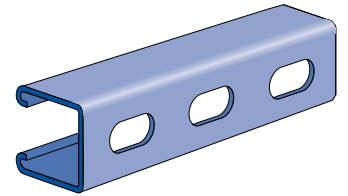
Wt/100 Ft: 190 Lbs
(283 kg/100m)

**P1001 SS**

Wt/100 Ft: 380 Lbs
(566 kg/100m)

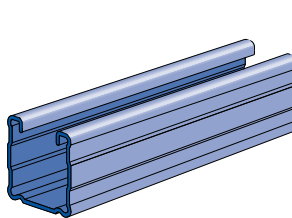
**P1000HS SS**

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

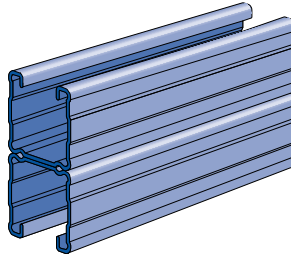
**P1000T SS**

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

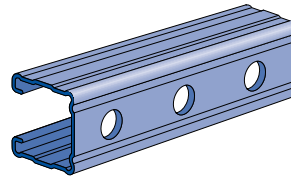
P1100 Series

**P1100 SS**

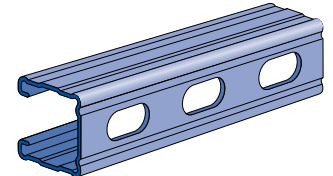
Wt/100 Ft: 142 Lbs
(211 kg/100m)

**P1101 SS**

Wt/100 Ft: 284 Lbs
(422 kg/100m)

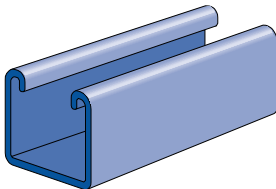
**P1100HS SS**

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

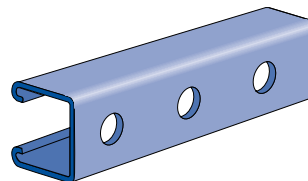
**P1100T SS**

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

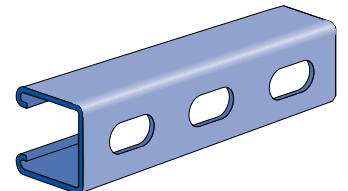
P3000 Series

**P3000 SS**

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

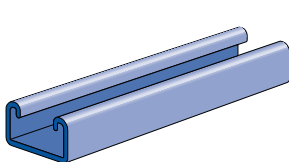
**P3000HS SS**

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

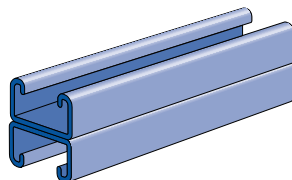
**P3000T SS**

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

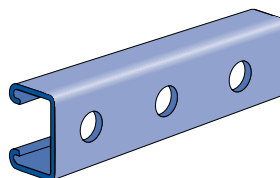
P3300 Series

**P3300 SS**

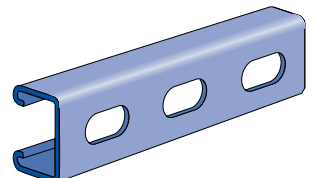
Wt/100 Ft: 135 Lbs
(201 kg/100m)

**P3301 SS**

Wt/100 Ft: 270 Lbs
(402 kg/100m)

**P3300HS SS**

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

**P3300T SS**

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

1 5/8" Channel

Telesruct System

Nuts & Hardware

General Fittings

Pipe/Conduit Supports

Electrical Fittings

Concrete Inserts

1 1/4" Framing System

1 3/16" Framing System

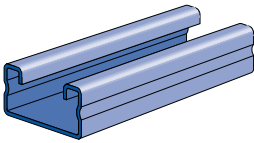
Fiberglass System

Special Metals

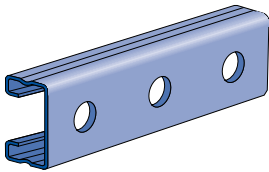
PrimeAngle System

Product Index

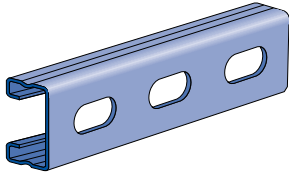
P4000 Series



P4000 SS
Wt/100 Ft: 82 Lbs (122 kg/100m)

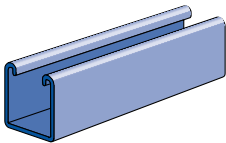


P4000HS SS
Wt/100 Ft: 79 Lbs
(110 kg/100m)

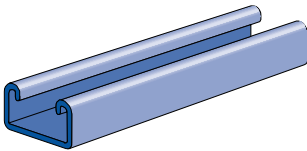


P4000T SS
Wt/100 Ft: 79 Lbs
(110 kg/100m)

P6000 SS Wt/100 Ft: 37 Lbs (55 kg/100m)

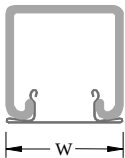
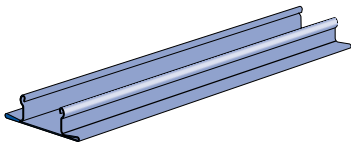


P7000 SS Wt/100 Ft: 36 Lbs (54 kg/100m)



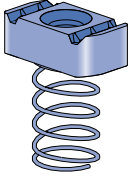
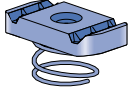
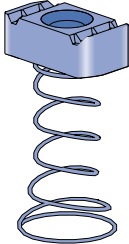
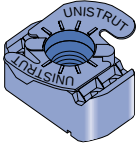
P1184 SS, P6184 SS

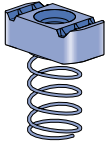
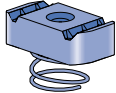
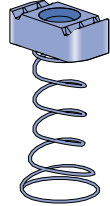
Closure Strip



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 5/8	27
	P3300	41.3	40.2
	P4000		
P6184 SS	P6000	1 3/16	10
	P7000	20.6	14.9

	Channel nut Part number	Nut Size -Thread	Wt/100 pcs Lbs (kg)	For Use With 1½" Channel		
				P1000, P1100, P2000, P3000	P3300, P4000 P4100	P5500
	P1006U-1420	¼" -20	7 3.2	■	-	-
	P1008U	⅜" -16	10 4.5	■	-	-
	P1010U	½" -13	12 5.4	■	-	-
	Material: Sintered type 316 stainless steel with pre-galvanized spring.					
	P4006U-1420	¼" -20	7 3.2	-	■	-
	P4008U	⅜" -16	9 4.1	-	■	-
	P4010U	½" -13	9 4.1	-	■	-
	Material: Sintered type 316 stainless steel with pre-galvanized spring.					
	P5506U-1420	¼" -20	7 3.2	-	-	■
	P5508U	⅜" -16	10 4.5	-	-	■
	P5510U	½" -13	10 4.5	-	-	■
	Material: Sintered type 316 stainless steel with pre-galvanized spring.					
	P4006-1420T SS	¼" -20	7 3.2	■	-	■
	P4008UT	½" -13	12 5.4	■	-	■
	P4010UT	½" -13	8 3.6	-	■	-

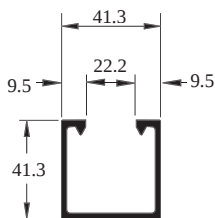
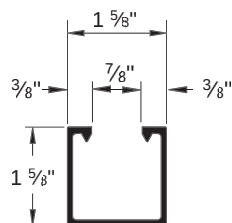
	Channel nut Part number	Nut Size -Thread	Wt/100 pcs Lbs (kg)	For Use With Channel		
				A1000	P3300, P4000 A4100	A5000
	A1006-1420 SS	¼" -20	6 2.7	■	-	-
	A1008 SS	⅜" -16	6 2.7	■	-	-
	Material: Sintered type 304 stainless steel with pre-galvanized spring.					
	A4006-1420 SS	¼" -20	5 2.3	-	■	-
	A4008 SS	⅜" -16	5 2.3	-	■	-
	Material: Sintered type 304 stainless steel with pre-galvanized spring.					
	A5506-1420 SS	¼" -20	6 2.7	-	-	■
	A5508 SS	⅜" -16	6 2.7	-	-	■
	Material: Wrought type 304 stainless steel with pre-galvanized spring.					

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.

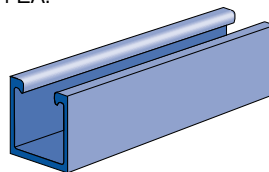


P1000 EA

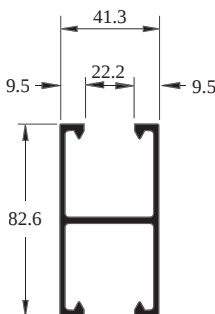
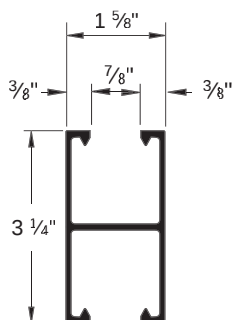


When used
with P3184 EA.

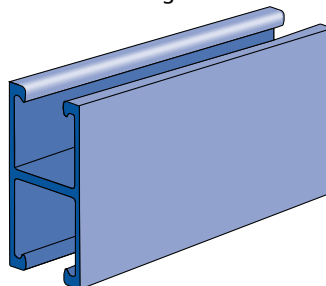
Wt/100 Ft: 76 Lbs (113 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .109" (2.8mm)



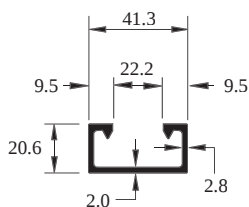
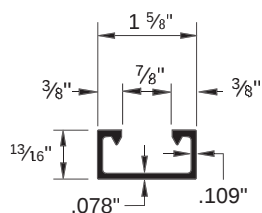
P1001 EA



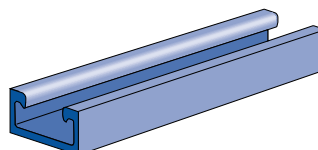
Wt/100 Ft: 134 Lbs (199 kg/100 m)
Aluminum Type 6063-T6
12 Gauge Nominal Thickness .109" (2.8mm)



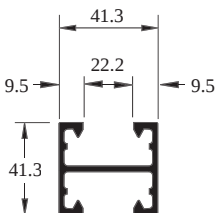
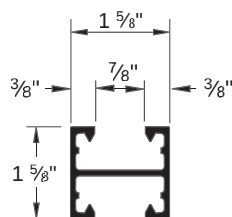
P4000 EA



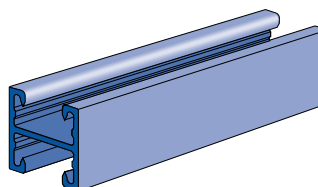
Wt/100 Ft: 45 Lbs (67 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .078" (2.0mm)



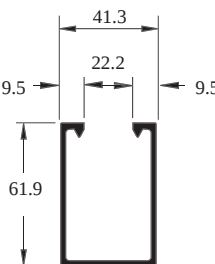
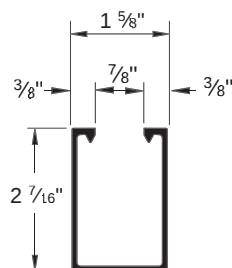
P4001 EA



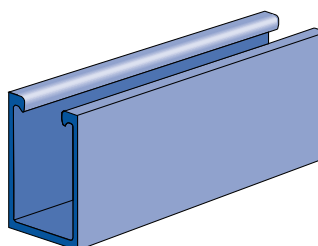
Wt/100 Ft: 66 Lbs (98 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .078" (2.0mm)



P5500 EA

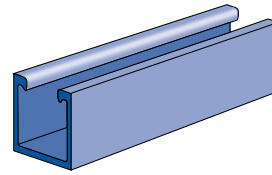
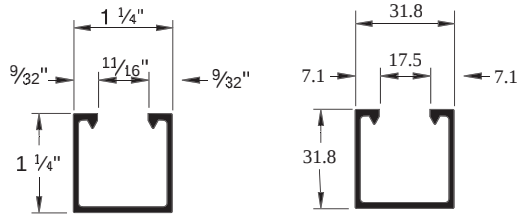


Wt/100 Ft: 97 Lbs (144 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .109" (2.8mm)



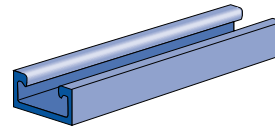
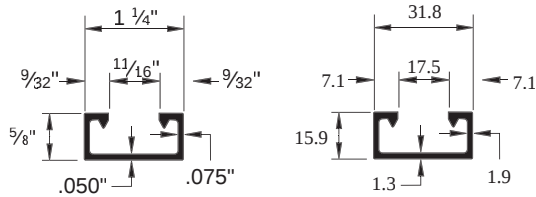
A1000 EA

Wt/100 Ft: 40 Lbs (60 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .075" (1.9mm)



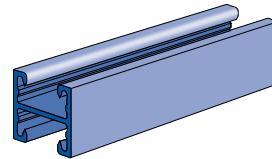
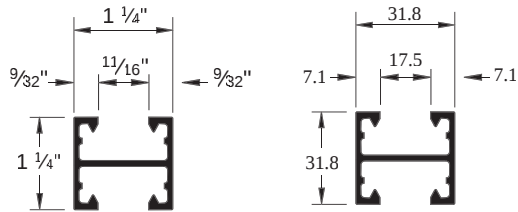
A4000 EA

Wt/100 Ft: 25 Lbs (37 kg/100 m)
Aluminum Type 6063-T6
12 Gauge Nominal Thickness .050" (1.3mm)
Standard Length 16 Ft.



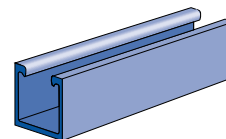
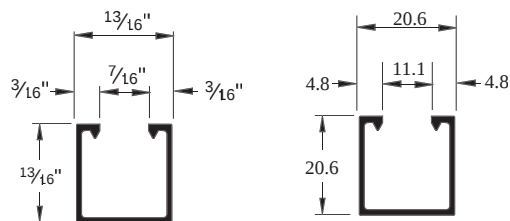
A4001 EA

Wt/100 Ft: 40 Lbs (60 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .078" (2.0mm)
Standard Length 16 Ft.



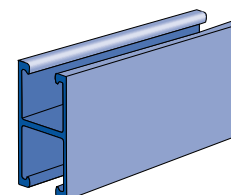
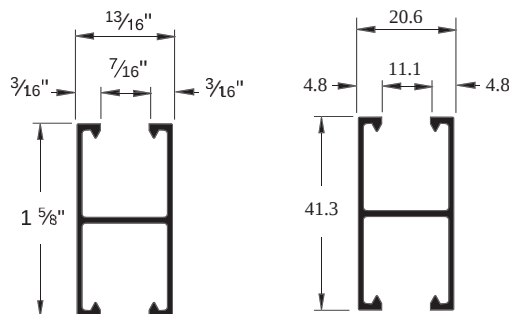
P6000 EA

Wt/100 Ft: 12 Lbs (18 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .040" (1.0mm)
Standard Length 16 Ft.



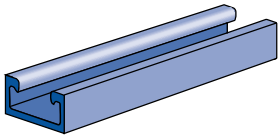
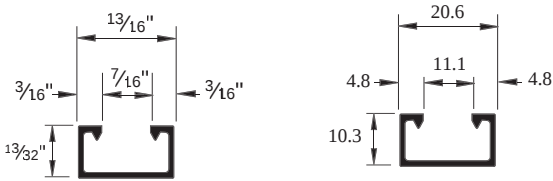
P6001 EA

Wt/100 Ft: 20 Lbs (30 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .040" (1.0mm)
Standard Length 16 Ft.



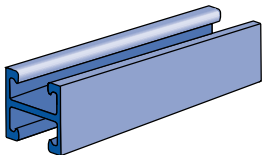
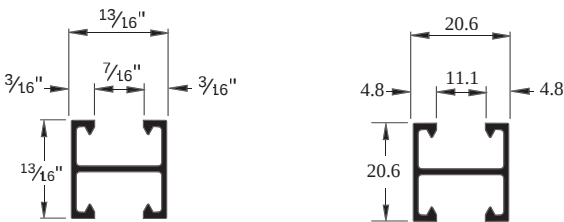
P7000 EA

Wt/100 Ft: 9 Lbs (13 kg/100 m)
Aluminum Type 6063-T6
Nominal Thickness .040" (1.0mm)
Standard Length 10 Ft.



P7001 EA

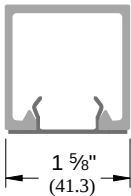
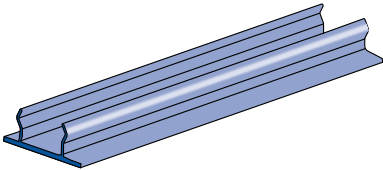
Wt/100 Ft: 17 Lbs (25 kg/100 m)
Aluminum Type 6063-T6
12 Gauge Nominal Thickness .040" (1.0mm)
Standard Length 10 Ft



P3184 EA

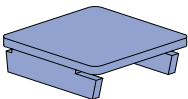
Closure Strip

Wt/100 Ft: 21 Lbs (31 kg/100 m)
Aluminum Type 6063-T6
Standard Length 10 Ft

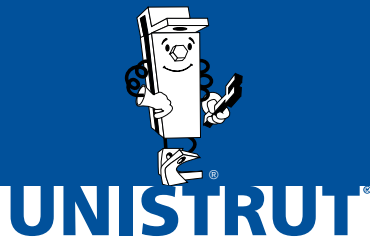


P1280 EA, P4280 EA, P5580 EA

End Caps

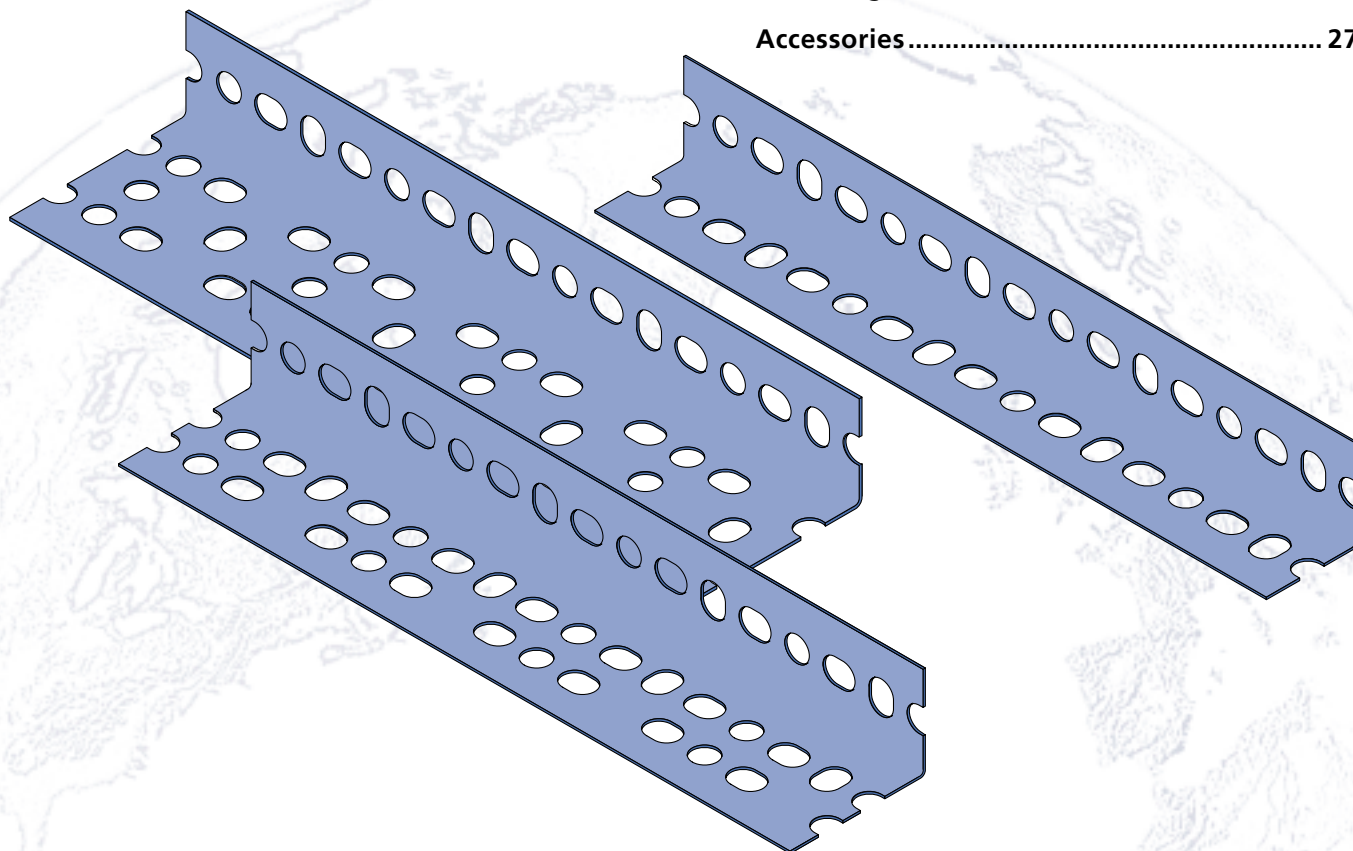


Part Number	Use With Channel	Wt/100 Ft Lbs(kg/m)
P1280 EA	P1000 EA	3.5 1.6
P4280 EA	P4000 EA	1.5 0.7
P5500 EA	P5500 EA	4.9 2.2



PRIMEANGLE™

PrimeAngle	270
Accessories	270



MATERIAL

STEEL: PLAIN

12 Gauge (.105" 1.0 mm) and 14 Gauge (.076)
ASTM 1011 SS GR 33

STEEL: PRE-GALVANIZED

12 Gauge (.105" 1.0 mm) and 14 Gauge (.076)
ASTM A653 GR 33

FINISHES

Available in two durable, long-lasting finishes.
Pre-galvanized (PG) or Perma-Green (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 $\frac{3}{8}$ " - 16 x $\frac{3}{4}$ "
hex head bolts and $\frac{3}{8}$ " nuts.

ORDERING INFORMATION:

When ordering, add the length or size and finish to the
part number.

DIMENSIONS

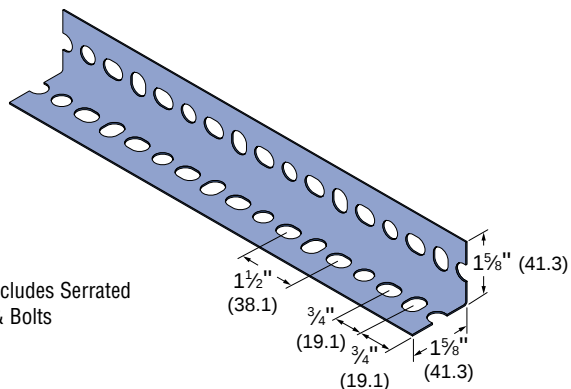
Imperial dimensions are illustrated in inches. Metric
dimensions are shown in parenthesis or as noted. Unless
noted, all metric dimensions are in millimeters and rounded
to one decimal place.



PA 158

Light Duty

(1⁵/₈" x 1⁵/₈" x 14 ga.) Wt/100 Ft.: 66 lbs (29.9 kg)

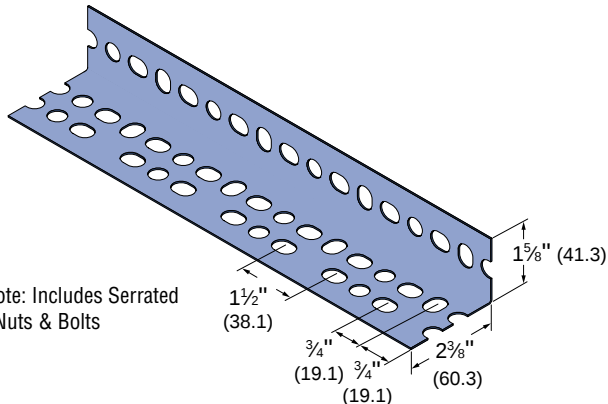


Note: Includes Serrated Nuts & Bolts

PA 238

Medium Duty

(1⁵/₈" x 2³/₈" x 14 ga.) Wt/100 Ft.: 80 lbs (36.3 kg)

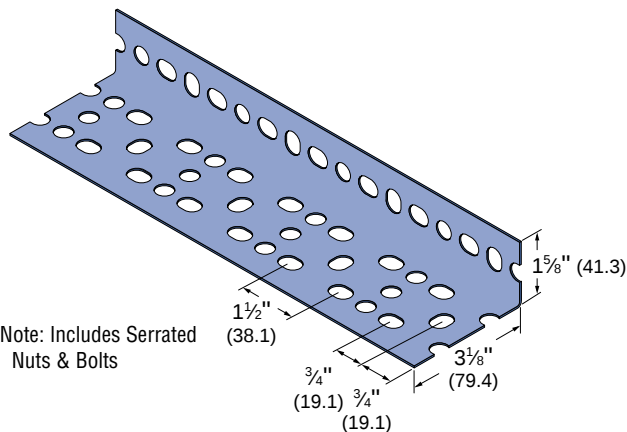


Note: Includes Serrated Nuts & Bolts

PA 318

Heavy Duty

(1⁵/₈" x 3¹/₈" x 12 ga.) Wt/100 Ft.: 130 lbs (59.0 kg)

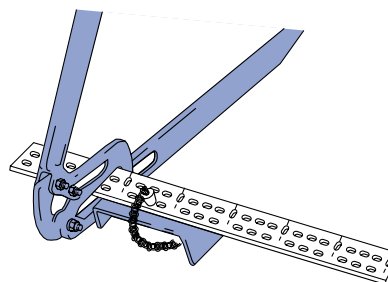


Note: Includes Serrated Nuts & Bolts

PA 1HDC

Portable Cutter

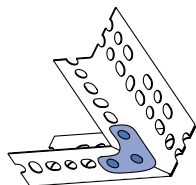
Wt/100 pcs: 17 lbs (7.7 kg)



PA 1GP

Gusset Plate

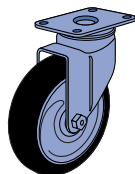
Wt/100 pcs: 9 lbs (4.1 kg)



PA 1SC

Swivel Caster

Wt/100 pcs: 170 lbs (77.1 kg)



PA 1RC

Rigid Caster

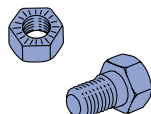
Wt/100 pcs: 110 lbs (49.9 kg)



PA 1SNB

Serrated Nuts and Bolts

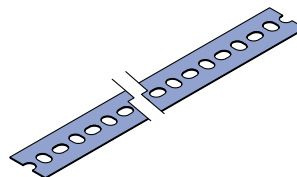
Wt/100 pcs: 7 lbs (3.2 kg)



PA 1RP

Slotted Strap

Wt/100 pcs: 35 lbs (15.9 kg)





UNISTRUT®

PRODUCT INDEX

200-3100 thru 200-3140	255	A4047	213	F20P/V-1000 thru F20P/V-1300 ..	242
A1000	196	A4120	210	F20P/V-2000	240
A1000 EA	267	A4280	206	F20P/V-2000 SST	244
A1001 thru A1001C	196	A5000	203	F20P/V-2100	240
A1006 thru A1008	205	A5006 thru A5008	205	F20P/V-2100 SST	244
A1026 thru A1031	208	A5043	213	F20P/V-2200	240
A1033	209	A5045	211	F20P/V-2200 SST	244
A1036	207	A5047	213	F20P/V-2300	240
A1037 thru A1038	209	A5120	210	F20P/V-2300 SST	244
A1045	210	A5280	206	F20PU-5853 thru F20PU-5905 ..	254
A1047	212	F10PU-CN thru F16PU-CNMHD ..	246	F20V-2500 thru F20V-2506	250
A1063 thru A1066	207	F20N-ARM08 thru F20N-STA33 ..	258	F20V-2508 thru F20V-2518	251
A1068	208	F20PU-CNMHD	246	F20V-2520 thru F20V-2530	252
A1184 thru A1184P	206	F100	257	F20V-2534 thru F20V-2540	253
A1191	207	F1000E thru F200-3843	248	F50PU-500SP	248
A1280	206	F200-4217 thru F200-4343	246	F50PU-1508 thru F50PU-2008 ..	253
A1325 thru A1326	208	F250E-999	248	F50PU-2045 thru F50PU-2090 ..	254
A1331 thru A1357	209	F250PU	247	F50PU-2538 thru F50PU-2613 ..	253
A1458	208	F250PU-CN thru F312PU-CN	246	F50PU-2616 thru F50PU-2636 ..	254
A1579	210	F375E-999	248	FAIC-EC	249
A2084 thru A2111	211	F375PU	247	FCVHPU	257
A2120	210	F375PU-BC	258	FPCR thru FPS	256
A2125 thru A2127	211	F375PU-CN thru F375PU-CNHD ..	246	FRGBC	258
A2223 thru A2227	212	F500E-999	248	FUB	249
A2235	210	F500PU	247	HRMS thru HSHS	81
A2324	207	F500PU-BC	258	HSQN thru HFLW	82
A2341 R-L thru A2472 R-L	212	F500PU-CN thru F500PU-CNHD ..	246	HTHR	83
A2491 R-L thru A2497 R-L	214	F625E-999	248	J1205 N thru thru J1280	149
A2608 thru A2617	213	F625PU	247	M24	189
A3006 thru A3016	205	F625PU-CNHD	246	M26	190
A3300 thru A3301	199	F750E-999	248	M29	130
A3345	211	F750PU-CNHD	246	M30 & M31	150
A3347	213	F750PU	247	M2037 thru M2350	175
A4000	201	F200-4101	257	M2708 thru M2808	190
A4000 EA	267	F20E-5000	249	M5025 thru M5060	143
A4001	201	F20P-2500 thru F20P-2506	250	P16F thru P21H	176
A4001 EA	267	F20P-2508 thru F20P-2518	251	P1000 series	25
A4006 thru A4008	205	F20P-2520 thru F20P-2530	252	P1000 EA	266
A4045	211	F20P-2534 thru F20P-2540	253	P1000 SS	263



P1000 T	25
P1000HS SS thru P1000T SS	263
P1001	25
P1001 3	29
P1001 A	28
P1001 A3	29
P1001 B	28
P1001 B3	29
P1001 C	28
P1001 C3 thru P1001 D3	29
P1001 EA	266
P1001 SS	263
P1001 T	28
P1003 thru P1004 A	29
P1006	78
P1006T	79
P1007 thru P1008	78
P1008T	79
P1009 thru P1010	78
P1010T thru P1012	79
P1012S	78
P1023	79
P1023S	78
P1024	79
P1024S	78
P1026	94
P1028	93
P1029	97
P1031	92
P1033 thru P1035	97
P1036	92
P1037 thru P1038	97
P1043A thru P1044	108
P1045	102
P1046A	109
P1047	106
P1048 thru P1050	107
P1062 thru P1065	90
P1066 thru P1067	91
P1068	94
P1075	115
P1100 series	32
P1100 SS thru P1100T SS	263
P1101	32

P1101 A thru P1101 C	33
P1101 SS	263
P1109 thru P1126	139
P1130 thru P1131	100
P1180	60
P1180W thru P5580W	171
P1184 thru P1184 P	59
P1184 SS	264
P1186	101
P1201 thru P1203	135
P1204 thru P1208	136
P1211 thru P1217	141
P1271S	126
P1272S	130
P1280 thru P1280 A	60
P1280 EA	268
P1281 thru P1283	94
P1290 thru P1291	98
P1315	95
P1320	105
P1325 thru P1326	96
P1334	92
P1346	96
P1347	102
P1354	135
P1356	93
P1357	98
P1358	93
P1359	98
P1363A thru P1376A	105
P1377	106
P1379S	130
P1380 thru P1380 A	92
P1381 thru P1382	98
P1383	107
P1386	129
P1425 thru P1431	139
P1453 thru P1454	102
P1455	106
P1458	95
P1479A thru P1479E	103
P1498 thru P1538D	95
P1546	101
P1563 thru P1573	141

P1579	99
P1593	115
P1648S thru P1653S	125
P1654A thru P1661A	126
P1690 thru P1697	164
P1703 thru P1704	191
P1713	99
P1723	94
P1726	93
P1727 thru P1728	99
P1730	103
P1732	107
P1734 thru P1736	103
P1737	108
P1747 thru P1750	95
P1753 thru P1754	163
P1769 thru P1775	114
P1777	115
P1787 thru P1795	165
P1787A thru P1795B	166
P1796S	126
P1821 thru P1823	96
P1834 thru P1834A	134
P1843	135
P1873	92
P1887	112
P1924	90
P1925	91
P1934	99
P1941	91
P1944	136
P1950 thru P1953	93
P1956 thru P1957	100
P1959 thru P1961	90
P1962	94
P1964	90
P1973	108
P1985S thru P1986S	130
P2000 series thru P2001	36
P2001 A thru P2001 C	37
P2008 thru P2020	141
P2024 thru P2070-84	140
P2072 thru P2073A	113
P2079	91

P2094 thru P2110 101	P2475 thru P2476 152	P2865 187
P2223 thru P2225 110	P2481 thru P2482 153	P2867 127
P2226 111	P2484 thru P2484W 100	P2867A thru P2893 128
P2227 thru P2228 110	P2485 84	P2894 thru P2896 129
P2229 111	P2490 90	P2897 122
P2230 112	P2491 R-L thru P2503 R-L 116	P2898 thru P2899 123
P2231 118	P2513 thru P2516 118	P2900 thru P2904 174
P2231A 119	P2513A thru P2516A 119	P2920 thru P2924 thru P2930 179
P2232 118	P2521 171	P2932 thru P2940 178
P2232A 119	P2521 thru P2522 170	P2941 thru P2942 112
P2233 118	P2534 169	P2944 thru P2947 117
P2233A 119	P2535 thru P2536 170	P2949 thru P2950 134
P2234 118	P2537 thru P2539 168	P3000 series 40
P2234A 119	P2540 thru P2540A 172	P3000 SS thru P3000T SS 263
P2235 99	P2541 171	P3001 40
P2237 107	P2542 thru P2551 117	P3006 thru P3016 79
P2243 153	P2552 172	P3045 104
P2245 112	P2557 167	P3047 106
P2260 thru P2270 102	P2558-5 thru P2558-60 142	P3087 130
P2280 thru P2280 A 60	P2567 167	P3116 172
P2324 91	P2600 144	P3165 Series 187
P2325 90	P2602 173	P3184 59
P2326 thru P2341 R-L 109	P2603 172	P3184 EA 268
P2343 R-L 110	P2609 thru P2617 142	P3184 F thru P3184 P 59
P2344 R-L thru P2347 111	P2626 94	P3200 Series 186
P2348 112	P2645A thru P2645H 163	P3245 189
P2354 R-L thru P2355 R-L 135	P2647A thru P2647F 164	P3280 191
P2360 103	P2649A thru P2649H 163	P3300 series 43
P2378 thru P2382 80	P2655 136	P3300 Series 188
P2398S thru P2403S 125	P2674 124	P3300 SS thru P3300T SS 263
P2407 191	P2675 thru P2676 123	P3301 43
P2426 thru P2431 142	P2677 thru P2682 124	P3301 SS 263
P2452 120	P2749 thru P2751 N 133	P3345 104
P2453 112	P2755 thru P2757 168	P3380 191
P2454 136	P2784 122	P3409 thru P3417 143
P2458-18 thru P2458-36 120	P2785 thru P2787 127	P3521-50 170
P2459-36 thru P2459-96 121	P2800 104	P3539 168
P2469 104	P2801 thru P2803 173	P3663 thru P3704 191
P2470 136	P2815 thru P2815D 121	P3712 P 59
P2471 90	P2820 thru P2823 178	P3754 Series 185
P2472 R-L 109	P2824 127	P3922 thru P3926 169
P2473 108	P2855 thru P2857 168	P4000 series 46
P2474 150	P2859 thru P2860 60	P4000 EA 266
P2474-1 thru P2474-4 151	P2862 thru P2864 90	P4000 SS thru P4000T SS 264



P4001	46
P4001 EA	266
P4003 thru P4004	47
P4006 thru P4010	78
P4010T thru P4012	79
P4012S	78
P4023	79
P4023S	78
P4043	108
P4045	104
P4047	106
P4100 series thru P4101	50
P4280	60
P4280 EA	268
P4376 thru P4376A	105
P4377	106
P4663	191
P4908	79
P5000 series thru P5001	53
P5021	171
P5055	106
P5280	60
P5500 series	56
P5500 EA	266
P5501	56
P5506 thru P5510	78
P5521-50 thru P5521-75	170
P5521-100	171
P5537 thru P5539	168
P5543	107
P5545	104
P5547	107
P5560	103
P5577	106
P5580	60
P5580 EA	268
P6000	218
P6000 EA	267
P6000 SS	264
P6001	218
P6001 EA	267
P6001A thru P6001C	218
P6006	223
P6026	227

P6028 thru P6031	226
P6033	228
P6036	226
P6037 thru P6038	228
P6044	235
P6045	232
P6047 thru P6048	233
P6062 thru P6065	224
P6066 thru P6067	225
P6068 thru P6069	227
P6127 thru P6129	235
P6130	230
P6184 P	223
P6184 SS	264
P6186	231
P6280	223
P6281 thru P6283	227
P6290 thru P6291	230
P6325	228
P6326	227
P6331 thru P6332	231
P6334	226
P6346	227
P6347	232
P6349 thru P6353	235
P6356A	225
P6357	228
P6358A	225
P6359	229
P6376 thru P6377	234
P6379 S	236
P6380 thru P6380A	226
P6381 thru P6382	230
P6386	236
P6453 thru P6454	232
P6455	235
P6458	228
P6546	231
P6579	229
P6726A	225
P6728	229
P6737 thru P6758	233
P6805 thru P6810	236
P6887	230

P6917 thru P6918	229
P6924 thru P6925	224
P6962	225
P6973	235
P7000	221
P7000 EA	268
P7000 SS	264
P7001	221
P7001 EA	268
P7006	223
P7008 thru P7020	236
P7045	232
P7047 thru P7048	233
P7097 thru P7110	231
P7235	229
P7280	223
P7324 thru P7325	224
P7347	232
P7376 thru P7377	234
P7758	233
P9000	67
P9010	70
P9010	82
P9011 thru P9014	72
P9200	67
P9207	71
P9209	70
P9209	82
P9324	71
PA 1GP thru PA 318	270
PFL037 thru PFL050T	131
PLF3037 thru PLF9100	132
PLLC025	131
UB1/2PA thru UB12PA	148

UNISTRUT®



PRODUCT APPLICATION GUIDE IND 800



THE PRODUCT APPLICATION GUIDE (IND 800)

Allows you to build a strong reputation with a World of Support from Unistrut. It's packed with examples and application photos of the Unistrut Framing System in action. Call for your copy today.

Registered Trademarks of UNISTRUT:

"AXENT", "UNISTRUT", "P1000",
"TELESPAR", "TELESTRUT",
"UNI-CLIP", "UNICUSHION",
"UNIROD", "GRAB BAG",
"PRIME ANGLE" and the
cartoon character "Mr. Strut".

The UNISTRUT® Metal Framing System

...engineered solutions you can count on!

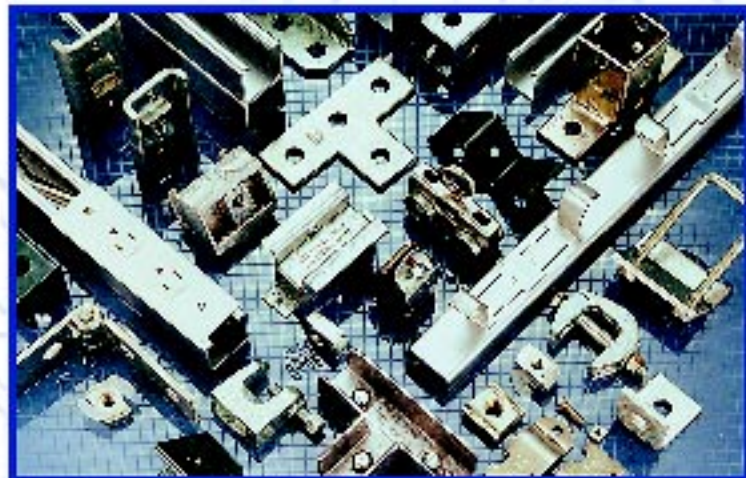
Products of UNISTRUT are manufactured under one or more of the following United States patents:

3,362,738	3,388,809	3,415,554
3,417,951	3,421,280	3,437,779
3,443,348	3,468,567	3,601,347
3,617,076	3,618,882	3,628,296
3,721,463	3,861,107	3,877,275
3,888,440	3,888,441	3,914,063
3,927,499	3,928,930	3,948,012
3,968,624	3,994,111	4,073,114
4,277,923	4,278,288	4,289,415

Foreign patents and other patents pending

Marketing throughout the world by Unistrut:

Tel: (800) 521-7730 • www.unistrut.com



**When there's work to be done,
build with the leader...**

UNISTRUT®

UNISTRUT®

4205 Elizabeth
Wayne, Michigan
48184
Tel: (800) 521-7730
Fax: (734) 721-4106
www.unistrut.com

UNISTRUT CANADA
585 Finley Avenue
Ajax, Ontario, L1S-2E4 Canada
Tel: (800) 267-4959 (Canada only)
Tel: (905) 683-8131
Fax: (905) 683-8987

tyco

*Electrical &
Metal Products*

