



Fiberglass Framing Systems



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INTRODUCTION

Aickinstrut® Fiberglass Strut is the most widely used and accepted nonmetallic strut support system in the world because it is the most complete quality line of nonmetallic accessories, fasteners, hangers, pipe clamps and channels available. Aickinstrut is a versatile, high-strength product that has been successfully used in thousands of applications worldwide. Some of those applications include: wastewater treatment, refineries, chemical plants, marinas, pulp and paper, desalination facilities, theme parks, aquariums and underground vaults.

Made from entirely nonmetallic, corrosion resistant resins, Aickinstrut can be used in demanding environments where steel strut systems have traditionally failed. Its lightweight components can be installed quickly and easily using standard metal working tools. All Aickinstrut parts incorporate the highest quality materials to provide superior chemical resistance, strength, flame resistance and ultraviolet protection.

Because Aickinstrut manufactures a complete corrosion resistant strut support system, the customer has the benefit of purchasing all of these items from a single source, thereby minimizing start up and delivery delays.

Aickinstrut stands ready to provide assistance through its network of distributors and sales representatives.

Introduction	2
Technical Information	
Fabrication4
Materials	4
Temperature Ranges	4
Typical Properties	5-6
Aickinstrut Specifications	7
Chemical Resistance	8-9
Channel Framing	
Channel Framing	10
Concrete Embedment Channel	10
SST Channel	10
Channel Profiles	11
Channel Loading	12-15
Channel Framing Accessories	
Channel Fittings	16-18
Post Bases	19
Channel Spacers	19
Channel Capping Strip	19
Channel End Cap	19
Pipe Clamps	
Aickinclamps Adjustable Pipe Clamps	20
Rigid Pipe Clamps	21
Two-Hole Pipe Straps	21
Channel Caps & Spacers	22
U-Bolts	22
Fasteners	
Fiberfast Bolts	23
Vinyl Ester Square Head Bolts	23
Fiberfast Hex Nuts	24
Vinyl Ester Square Nuts	24
Flat Washers	24
Channel Nuts	25
Saddle Clips	25
Stop-Lock Assemblies	25
Pipe Hangers	
Clevis Hangers	26
Pipe Hanging Accessories	
Beam Clamps	27
Beam Clamp Clips	27
Threaded Rod	28
Duraclamp C-Clamps	28
Channel Hanger	28
Pipe Supports	
Power-Racks Stanchions	29
Wall Bracket	29

AICKINSTRUT SYSTEM (cont.)

Instrument & Pipe Stands

Heavy Duty Post Base	30
Instrument & Pipe Stands	30

AICKINSHAPE

Introduction	31
--------------------	----

Structural Shapes

Structural Shapes	31-33
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AICKINSTRUT FABRICATION

The installation of fiberglass channel and accessories is similar to the installation of metallic channel and accessories. All standard installation practices and procedures apply. In general, special handling is not required. Fabrication of Aickinstrut components requires just three simple operations; cutting, drilling and sealing as described below.

Cutting – Cutting can be accomplished with a wide variety of saws. Hand held saws, such as hack saws (24 to 32 teeth per inch) are suitable when a few number of cuts are required. For frequent cutting, a circular power saw with a carbide-tipped masonry blade yields the best results and the greatest number of cuts. When using a power saw, dust filter masks, gloves and long sleeve clothing should be worn.

Drilling – Any standard twist bit, even when used with battery-powered drills will work well. Carbide-tipped drill bits are recommended.

LABOR SAVINGS

Aickinstrut fiberglass structural members can be cut and drilled at a much faster rate than steel. Typically, fiberglass can be fabricated in less than half the time. As a result, substantial labor savings will be realized. Also, Aickinstrut products average $\frac{1}{3}$ the weight of their steel counterparts, making them much easier to handle on the job site.

RELATIVE MATERIAL COSTS

Aickinstrut materials are advantageously priced relative to specialty metals traditionally used in corrosive environments. Aickinstrut, even though slightly more expensive than pre-galvanized channel, can be used with the knowledge that it will not have to be maintained regularly or replaced after a brief time. Should pre-galvanized channel have to be replaced once, its cost far outweighs the expense of doing the initial installation with Aickinstrut.

MATERIAL

The finished Aickinstrut application will utilize a combination of materials from the following resin families:

Material Code	Material
E	PVC (extruded)
P	Polyester (pultruded)
V	Vinyl ester (pultruded)
PU	Polyurethane (injection molded)
PP	Polypropylene (injection molded)
N	Nylon (injection molded)

The ability of each material to handle high and low temperatures, chemical exposures and static loads is covered in each of the following sections. By using

these criteria, you will be able to select the optimal Aickinstrut Channel, Fittings and Accessories for your particular applications.

OPERATING ENVIRONMENT

In order to design an Aickinstrut system for your application, consideration should be given to the maximum operating conditions. These "worst case" conditions will determine which type of Aickinstrut materials are best suited for your application. The three "worst case" operating conditions to consider are:

- Temperature
- Chemical Environment
- Loading

Temperature Ranges – Aickinstrut is supplied in six different materials covering distinct temperature ranges. Materials should be chosen which meet or exceed the minimum and maximum temperatures for your applications.

Material Code	Low Temperature	High Temperature
E	-25°F	130°F
P	-35°F	200°F
V	-35°F	200°F
PU	-40°F	140°F
PP	-30°F	150°F
N	-20°F	150°F

The temperature ranges indicated are meant to be used only as a general guideline. Continual exposure to elevated temperatures reduces the strength properties of plastics and glass reinforced fiberglass. Actual resin test data confirms that a 50% reduction in strength occurs at the extreme high temperature levels.

Chemical Resistance – Each resin family has its own specifications regarding its performance against corrosion resistance. Use the following chart to determine which Aickinstrut material system will provide the best performance for your particular application. The results in the chart are based upon immersion for a 24 hour period. This is typically the "worst case" exposure to corrosion. Less severe contact such as spills, splashes and vapor condensate will exceed the performance results listed in the table.

Loading – Channel loading is defined on pages 13 to 15. Additional loading and design limitations for fittings and accessories are described in the appropriate section for that part.

THE PULTRUSION PROCESS

The pultruded structural component is made by reinforcing a polymer resin (usually polyester or vinyl ester resin) with multiple strands of glass filament and alternating layers of glass mat.

The glass is drawn through the liquid resin, which coats and saturates the fibers. The combination of resin and glass is then continuously guided and pulled (pultruded) through a heated die that determines the shape of the component.

In the die, the resin is cured to form a permanent, reinforced part which can be cut to a specific length. Since the hardened fiberglass pultrusion is reinforced with an internal arrangement of permanently bonded continuous glass fibers, it possesses great strength. In addition to strength, pultruded fiberglass components exhibit exceptional corrosion resistance. This attribute makes fiberglass the material of choice for many harsh industrial applications.

RESIN SYSTEMS

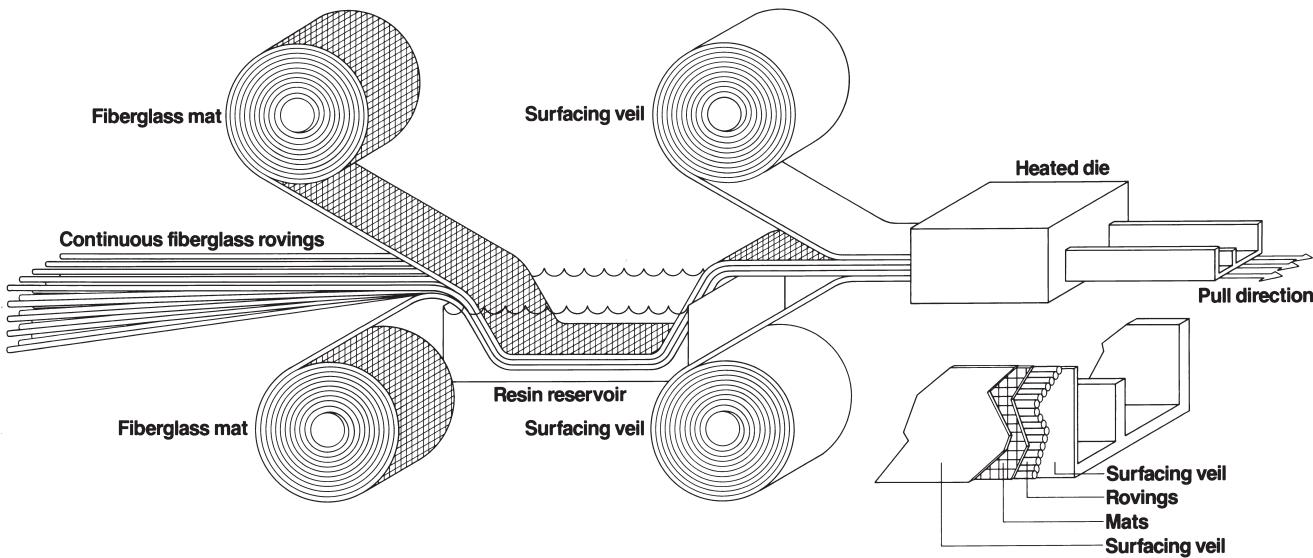
Polyester and vinyl ester resin systems are available. The vinyl ester resin system is somewhat stronger and is applied in severe corrosive applications.

Both resin systems are flame retardant, conforming to ASTM E84, Class 1 flame rating and are self extinguishing per the requirements of UL94V-0.

Consult the corrosion resistance guide on page 8 and 9 to determine the correct resin system for your application.

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Typical Properties	Test Method	Direction	Unit	Typical Value Polyester	Typical Value Vinyl Ester
Mechanical					
Ultimate Tensile Strength	ASTM D-638	Longitudinal	PSI	30,000	35,000
	ASTM D-638	Transverse	PSI	7,000	10,000
Tensile Modulus					
	ASTM D-638	Longitudinal	PSI	2.5×10^6	3.0×10^6
	ASTM D-638	Transverse	PSI	0.8×10^6	1.0×10^6
Ultimate Compressive Strength					
	ASTM D-695	Longitudinal	PSI	30,000	35,000
	ASTM D-695	Transverse	PSI	15,000	20,000
Compressive Modulus					
	ASTM D-695	Longitudinal	PSI	2.5×10^6	2.5×10^6
	ASTM D-695	Transverse	PSI	1.0×10^6	1.2×10^6
Ultimate Flexural Strength					
	ASTM D-790	Longitudinal	PSI	30,000	35,000
	ASTM D-790	Transverse	PSI	10,000	14,000
Flexural Modulus					
	ASTM D-790	Longitudinal	PSI	1.6×10^6	2.0×10^6
	ASTM D-790	Transverse	PSI	0.8×10^6	1.0×10^6
Shear Strength Short Beam					
	ASTM D-2344	Longitudinal or	PSI	5,500	7,000
		Transverse	PSI	5,500	6,000
Impact Strength-Izod					
	ASTM D-256	Longitudinal	ft.-lb./in.	25	30
		Transverse	ft.-lb./in.	4	5
Hardness-Barcol					
	ASTM D-2583	Perpendicular	—	50	50
Electrical					
Electric Strength Short Time-in oil					
	ASTM D-149	Perpendicular	Volts/mil.	200	200
		Parallel	KV/in.	35	35
Dielectric Constant					
	ASTM D-150	Perpendicular	—	5.0	5.0
Dissipation Factor					
	ASTM D-150	Perpendicular	—	0.03	0.03
Arc Resistance					
	ASTM D-495	Longitudinal or	Seconds	80	120
		Transverse	Seconds	80	120



Glass Roving and Mat Reinforced Polyester and Vinyl Ester Fiberglass Components

Typical Properties	Test Method	Direction	Unit	Typical Value Polyester	Typical Value Vinyl Ester
Other					
Thermal Coefficient of Expansion	ASTM D-696	Longitudinal	in./in./°F	5×10^{-6}	5×10^{-6}
Thermal Conductivity		Longitudinal	BTU/Hr. sq.	4.0	4.0
			ft./in./°F		
Water Absorption 24 hours	ASTM O-570	Longitudinal	%	1	1
Density	ASTM D-792	Longitudinal	lbs./cu.in.	0.062	0.062
Color (Standard)				Dark Gray	Beige
Flammability	UL94		Classification:	V-0	V-0
Flammability	ASTME84		Rating:	25	25

The foregoing list of properties was derived from laboratory data using coupon test specimens cut from pultruded sections. Such information should only be used as a general guide in design. Many actual components (such as cable tray side rail) take advantage of the flexibility of the pultrusion process and are selectively reinforced to enhance performance in a particular load axis. The factory should be contacted for specific information on any given component.

Aickinstrut Fiberglass Threaded Rod Material Properties

Threaded rod is a proprietary combination of fiberglass and Class I vinyl ester flame retardant resin.

Properties	$\frac{3}{8}$ -16 UNC	$\frac{1}{2}$ -13 UNC	$\frac{5}{8}$ -11 UNC
Thread shear strength using fiberglass nut in tensile (lbs.)	1,250	2,500	3,800
Transverse shear on threaded rod-double shear ASTM-B-565 (load lb.)	4,200	7,400	11,600
Transverse shear on threaded rod--single shear (load lb.)	1,600	2,600	3,800
Compressive strength-longitudinal ASTM-D-695 (psi)	55,000	55,000	55,000
Flexural strength ASTM-D-790 (psi)	60,000	60,000	60,000
Flexural modulus ASTM-D-790 (psi x 10 ⁶)	2.0×10^6	2.0×10^6	2.0×10^6
Torque strength using fiberglass nut lubricated with SAE 10W30 motor oil (ft./lbs.)	8	15	33
Dielectric strength ASTM-D-149 (kv/in.)	40	40	40
Water absorption 24 hour immersion--threaded ASTM-D-570 (%)	1	1	1
Coefficient of thermal expansion--longitudinal (in./in./°F)	5×10^{-6}	5×10^{-6}	5×10^{-6}
Max recommended operation temp, based on 50% retention of ultimate thread shear strength (°F)	200	200	200
Stud weight (lb./ft.)	.076	.129	.209
Flammability		Self extinguishing per UL94V-0	

Aickinstrut Specifications**1.0 SCOPE**

- 1.1 This specification covers the requirements for the Aickinstrut Nonmetallic Channel Framing System.

2.0 MATERIAL

- 2.1 FRP channel shall be of pultruded glass reinforced polyester or vinyl ester resin having the physical property values listed in this catalog.
- 2.2 PVC channel shall be of extruded polyvinyl chloride having the physical property values listed in this catalog.
- 2.3 Some accessories shall be of injection molded, 40% long glass fiber reinforced polyurethane, polypropylene or nylon.

3.0 COMPOSITION

- 3.1 Glass reinforced channel shall have a synthetic surfacing veil applied on exterior surfaces to improve weatherability and inhibit ultraviolet degradation.
- 3.2 PVC channel shall be manufactured from a U.V. stabilized resin and incorporate dark gray pigment to improve weatherability and inhibit ultraviolet degradation.

4.0 STRUCTURAL DESIGN

- 4.1 Channel shall incorporate Aickinstrut's patented flange profile design which allows full and positive interlocking contact of channel accessories and prohibits premature flange failure from torqued accessories.
- 4.2 Channel profile dimensions shall be:
 $1\frac{5}{8}'' \times 1\frac{5}{8}'' \times \frac{3}{16}''$,
 $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{3}{16}''$, or
 $1\frac{1}{2}'' \times 1\frac{1}{8}'' \times \frac{3}{16}''$.
- 4.3 All $1\frac{5}{8}'' \times 1\frac{5}{8}''$ 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 and PVC channels covered in this specification shall have a flame spread rating of 25 or less when tested per ASTM E84 and meet the requirements of UL 94V0 thereby qualifying them as Class 1 material in the Uniform Building Code.
- 5.2 Glass reinforced channels covered in this specification shall comply with the requirements of ASTM D 3917 and ASTM D 4385 which govern the dimensional tolerance and visual defects of pultruded shapes.

6.0 GENERAL

- 6.1 Aickinstrut Nonmetallic Channel Framing shall be furnished as a system which includes all the necessary fasteners, channel splice plates, brackets, sealants, hangers, pipe clamps, etc.
- 6.2 Nonmetallic fasteners shall be manufactured from long glass fiber reinforced polyurethane to ensure maximum strength and corrosion resistance.
- 6.3 All components of the Aickinstrut Channel Framing System shall be nonmetallic except where type 316 stainless steel hardware is used as part of the assembly.
- 6.4 Aickinstrut is manufactured by Aickinstrut, a subsidiary of T.J. Cope, Philadelphia, Pennsylvania, 1-800-426-4293.
- 6.5 The manufacturer shall not have had less than 10 years experience in manufacturing strut systems.
- 6.6 Most products are manufactured in the United States of America. Some items are outsourced where deemed necessary.

Chemical Compatibility Table

Chemical	Series E (Rigid PVC) 70°-160°F	Series P (Poly/Glass) 70°-160°F	Series V (Vinyl/Glass) 70°-160°F	Series K (PVDF) 70°-160°F	Series PU (Polyurethane) 70°-160°F	Series N (Nylon) 70°-160°F
Acetic Acid, Up to 10%	R R	R R	R R	R R	R –	NR NR
Acetic Acid, Up to 50%	R R	R R	R R	R R	R –	NR NR
Acetone, Up to 10%	NR NR	NR NR	NR NR	NR NR	R –	R R
Aluminum Hydroxide	R R	R R	R R	R R	R –	NR NR
Ammonium Hydroxide (Aqueous Ammonia), Up to 5%	R R	NR NR	R R	R R	R –	– –
Ammonium Hydroxide, Up to 10%	R R	NR NR	R 150°	R R	R –	– –
Ammonium Hydroxide, Up to 20%	R R	NR NR	R 150°	R R	R –	– –
Ammonium Nitrate	R NR	R R	R R	R R	R –	– –
Ammonium Phosphate	R R	R NR	R R	R R	R –	– –
Ammonium Sulfide, saturated	R R	NR NR	R 120°	R R	R –	– –
Aqua Regia, fumes	NR NR	NR NR	R 150°	R R	NR –	– –
Benzene	NR	NR	NR NR	R R	R R	R
Benzoic Acid	R R	R R	R R	R R	R –	– –
Bromine, wet gas	R NR	NR NR	R 100°	R R	– –	– –
Butylene Glycol, Up to 100%	R R	R R	R R	R R	R –	R R
Butyric Acid, Up to 50%	NR NR	R R	R R	R R	R –	– –
Calcium Hydroxide	R R	R NR	R R	R R	R –	– –
Calcium Hypochlorite	R R	R NR	R R	R R	R –	NR NR
Chlorine, Dry Gas	NR NR	NR NR	R R	R R	– –	– –
Chlorine, Wet Gas	NR NR	NR NR	R R	R R	– –	– –
Chlorine, Liquid	NR NR	NR NR	NR NR	R R	– –	– –
Chlorine, Water	NR NR	R R	R R	R R	R –	NR NR
Chromic Acid, Up to 5%	R R	NR NR	R R	R R	– –	R R
Copper Chloride	R R	R R	R R	R R	R –	– –
Copper Cyanide	R R	R NR	R R	R R	R –	– –
Copper Fluoride	R R	R NR	R R	R R	R –	– –
Copper Nitrate	R R	R R	R R	R R	R –	– –
Copper Sulfate	R R	R R	R R	R R	R –	– –
Dechlorinated Brine Storage	R R	– –	R R	R R	R –	– –
Esters, Fatty Acid	NR NR	R R	R R	R R	R –	– –
Ferric Chloride	R R	R R	R R	R R	R –	– –
Ferrous Chloride	R R	R R	R R	R R	R –	– –
Fluoboric Acid	R R	R 120°	R R	R R	– –	– –
Fluosilicic Acid, Up to 10%	NR NR	NR NR	R R	R R	– –	NR NR
Fluosilicic Acid, Up to 32%	NR NR	NR NR	R 100°	R R	– –	– –
Formic Acid, Up to 10%	R R	NR NR	R R	R R	R –	NR NR
Formic Acid, Up to 50%	R R	NR NR	R 100°	R R	R –	– –
Gasoline, Aviation	R NR	R NR	R R	R R	R –	– –
Green Liquor, Pulp Mill	R R	– –	R R	R R	– –	– –
Hydrochloric Acid Up to 15%	R R	R NR	R R	R R	R –	– –
Hydrochloric Acid Up to 37%	R R	R NR	R R	R R	R –	– –
Hydrofluoric Acid, Up to 10%	R R	NR NR	R 150°	R R	– –	– –
Hydrofluoric Acid, Up to 20%	R NR	NR NR	R 100°	R R	– –	– –
Hydrogen Chloride, Wet Gas	NR NR	R NR	R R	R R	NR –	– –
Hydrogen Sulfide, Wet Gas	R R	R NR	R R	R R	R –	– –

Legend: “NR” indicates “Not Recommended” for use;

“R” indicates “Recommended”;

“–” indicates no information available

Chemical Compatibility Table

Chemical	Series E (Rigid PVC) 70°-160°F		Series P (Poly/Glass) 70°-160°F		Series V (Vinyl/Glass) 70°-160°F		Series K (PVDF) 70°-160°F		Series PU (Polyurethane) 70°-160°F		Series N (Nylon) 70°-160°F	
	R	NR	R	NR	R	R	R	R	R	—	—	—
Lactic Acid	R	R	R	NR	R	R	R	R	R	—	—	—
Lead Nitrate	R	R	—	—	R	R	R	R	R	—	—	—
Magnesium Hydroxide	R	R	NR	NR	R	R	R	R	R	—	R	R
Nickel Sulfate, Low pH	R	R	NR	NR	R	R	R	R	R	—	—	—
Nickel Sulfate, High pH	R	R	NR	NR	R	R	R	R	R	—	—	—
Nitric Acid, Up to 5%	R	R	NR	NR	R	150°	R	R	R	—	—	—
Nitric Acid, Up to 35%	R	R	NR	NR	R	150°	R	R	R	—	—	—
Nitric Acid, Vapor	R	R	NR	NR	R	R	R	R	—	—	—	—
Perchloric Acid, Up to 10%	NR	NR	NR	NR	R	150°	R	R	—	—	NR	NR
Pickling Liquids, 3-5% H2SO4	R	R	R	R	R	R	R	R	R	—	—	—
Phosphoric Acid	R	R	NR	NR	R	R	R	R	R	—	NR	NR
Phosphoric Acid, Super or Poly (115%, P20%)	R	R	NR	NR	R	R	R	R	—	—	—	—
Phosphoric Acid Vapor or Condensate	R	R	NR	NR	R	R	R	R	—	—	—	—
Potassium Chloride	R	R	R	R	R	R	R	R	R	—	—	—
Potassium Nitrate	R	R	R	R	R	R	R	R	R	—	—	—
Potassium Persulfate	R	R	NR	NR	R	R	R	R	R	—	—	—
Silver Cyanide, Up to 5%	R	R	NR	NR	R	R	R	R	R	—	—	—
Sodium Hydroxide, Up to 25%	R	R	NR	NR	R	150°	R	R	R	—	—	—
Sodium Hydroxide, up to 50%	R	R	NR	NR	R	180°	R	R	—	—	R	R
Sodium Hypochlorite, Up to 15%	R	R	NR	NR	R	150°	R	R	R	—	NR	NR
Sodium Nitrate	R	R	R	R	R	R	R	R	R	—	—	—
Sodium Sulfate	R	R	R	NR	R	R	R	R	R	—	—	—
Sodium Sulfide	R	R	NR	NR	R	R	R	R	R	—	—	—
Sulfuric Acid, Up to 25%	R	R	R	R	R	R	R	R	R	—	NR	NR
Sulfuric Acid, Up to 50%	R	R	NR	NR	R	R	R	R	R	—	—	—
Sulfuric Acid, Up to 70%	R	R	NR	NR	R	R	R	R	R	—	NR	NR
Sulfuric Acid, Up to 75%	NR	NR	NR	NR	R	120°	R	R	—	—	NR	NR
Sulfuric Acid, Up to 80%	NR	NR	NR	NR	NR	NR	NR	NR	—	—	NR	NR
Sulfuric Acid, Vapor	R	R	R	NR	R	R	R	R	—	—	—	—
Trichlorethylene, Fumes	NR	NR	NR	NR	R	120°	R	R	NR	—	—	—
Trisodium Phosphate	R	R	R	NR	R	R	R	R	R	—	—	—
Urea	R	R	R	NR	R	150°	R	R	R	—	R	R
Vegetable Oils	R	R	R	R	R	R	R	R	R	—	R	R
Vinegar	R	R	R	R	R	R	R	R	R	R	R	R
White Liquor, Pulp Mill	R	R	—	—	R	R	R	R	—	—	—	—

BEAM LOADING CONVERSION TABLE

Note: The recommendations contained in this table are made without guarantee of representation as to results. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by T.J. Cope, Inc. as to effects of such use or results to be obtained nor does T.J. Cope, Inc. assume any liability arising out of the use by others of the products referenced in this table. Nor is the information herein to be construed as absolutely complete since additional information may be needed or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material.

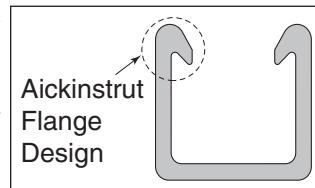
Legend: "NR" indicates "Not Recommended" for use;

"R" indicates "Recommended";

"—" indicates no information available

CHANNEL FRAMING

All Aickinstrut channels, except the SST series, incorporate a flange design which provides reliable fastening and interlocking of Aickinstrut components and accessories.



Channels are provided in standard lengths of 10' with longer lengths available upon request. Aickinstrut single channels come packaged in boxes of 100' while the double channels are packaged in boxes containing 40'.

Aickinstrut channel is available in three materials:

- Polyester (P material), - Gray
- Vinyl Ester (V material) and - Beige
- PVC (E material) - Dark Gray

Polyester and Vinyl Ester Materials

The polyester and vinyl ester channels are manufactured from the pultrusion process. In this process, the component is made by reinforcing a polymer resin (polyester or vinyl ester) with multiple strands of glass filament, alternating layers of glass mat and U.V. resistant surfacing veils. The glass is drawn through the liquid resin, which coats and saturates the fibers. The combination of resin, glass and veil is then continuously guided and pulled (pultruded) through a heated die that determines the shape of the component.

In the die, the resin is cured to form a permanent, reinforced part which can be cut to a specific length. Since the hardened fiberglass pultrusion is reinforced with an internal arrangement of permanently bonded continuous glass fibers, it possesses great strength.

In addition, pultruded fiberglass components exhibit exceptional corrosion and fire resistance. These attributes make fiberglass the material of choice for many harsh industrial applications.

The polyester and vinyl ester channels are color coded. Polyester channels are colored gray and the vinyl ester channels are colored beige.

PVC Materials

The PVC channels are manufactured from the extrusion process. In this process, the component is made by a PVC resin mixture being continuously fed through a heated die that determines the shape of the component.

In the die, the resin is cured to form a permanent, extruded part that can be cut to a specific length. Unlike pultruded components, extruded components do not incorporate glass-reinforcement; consequently, they do not exhibit the same beam strength as their pultruded counterparts. PVC components, however, exhibit exceptional corrosion and fire resistance. These features make PVC channels an excellent alternative when excessive beam strength is not required. PVC channels are color coded dark gray.

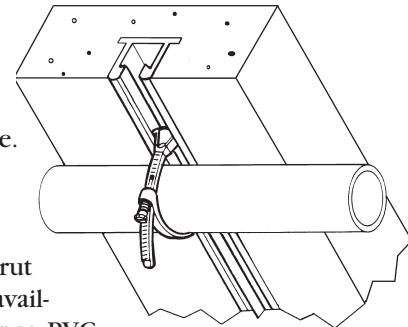
CHANNEL AVAILABILITY CHART

The following chart illustrates the availability of materials in the different channel profiles.

Channel Profile	Polyester (P) Vinyl Ester (V)	PVC (E)
Series 1000, 1000SST, 1200 1200SST, 2000, 2200, 2300	X	X
Series 1100, 1100SST, 1300, 1300SST, 1500, 1600, 1700, 1800	XX	N/A

CONCRETE EMBEDMENT CHANNEL

In certain applications, it is necessary to embed a corrosion resistant channel into a new pouring of concrete. For these applications, Aickinstrut concrete embedment channel is recommended. Aickinstrut embedment channel is available in three material types; PVC, polyester and vinyl ester. The PVC embedment channel is extruded as one piece while the polyester and vinyl ester embedment channel is a two piece bonded type design. The PVC embedment channel is available in the 1 $\frac{5}{8}$ " profile while polyester and vinyl ester embedment channels are available in all three profiles (1 $\frac{5}{8}$ ", 1 $\frac{1}{2}$ " & 1 $\frac{1}{8}$ ").



The embedment channel utilizes two continuous protruding flanges in the profile base to retain the channel in the concrete. Mounting the embedment channel flush with the concrete surface is a convenient way to secure piping, conduits or electrical enclosures to a wall or ceiling. The PVC embedment channel is extremely high in strength. When embedded in 3,000 PSI concrete, the concrete will fail before the channel is pulled out. When field cuts are made, product must be sealed using acrylic enamel.

AICKINSTRUT SST CHANNEL

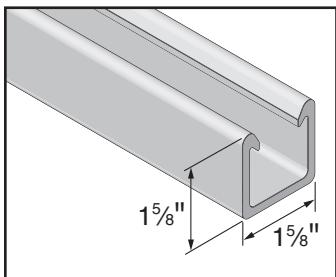
Aickinstrut SST Fiberglass Channel incorporates a standard channel profile that will accommodate metallic pipe straps and clamps. SST channel is available in polyester or vinyl ester resin. All standard styles (solid, slotted, concrete insert and back-to-back) are also available. Please contact the factory for loading information for the SST Channel.

NOTE: Aickinstrut SST Channel is not compatible with the Aickinstrut pipe clamps, channel nuts, and grooved fittings shown in this catalog. This profile is designed for use with metallic pipe straps and pipe clamps which are also available from Atkore.

HEAVY DUTY CHANNEL – AICKINSTRUT PROFILE

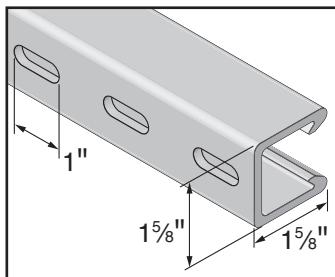
Standard

20P-2000, 20V-2000, 20E-2000



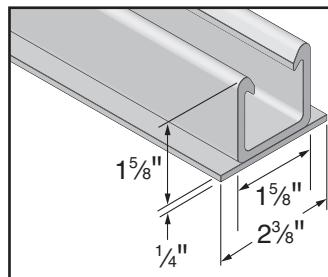
Slotted (1" x 3/8" Holes)

20P-2200, 20V-2200, 20E-2200



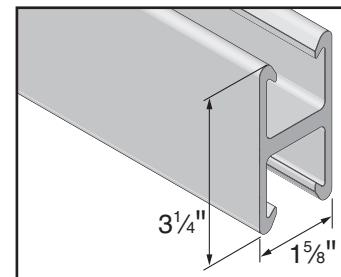
With Concrete Inserts

20P-2300, 20V-2300, 20E-2300



Back-to-Back

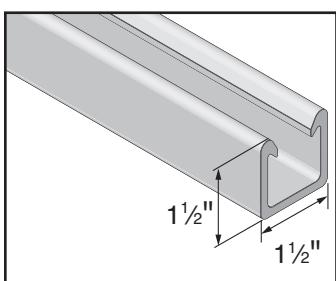
20P-2100, 20V-2100



MEDIUM DUTY CHANNEL – AICKINSTRUT PROFILE

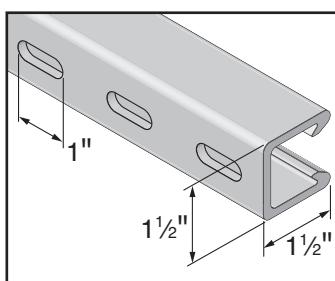
Standard

20P-1500, 20V-1500



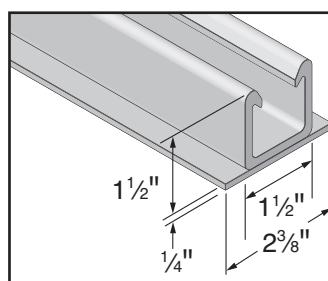
Slotted (1" x 3/8" Holes)

20P-1700, 20V-1700



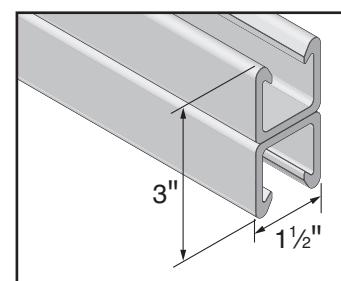
With Concrete Inserts

20P-1800, 20V-1800



Back-to-Back

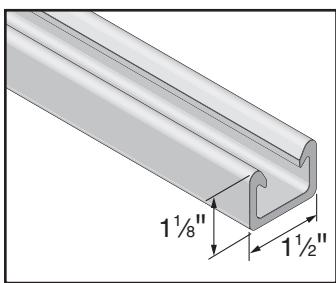
20P-1600, 20V-1600



LIGHT DUTY CHANNEL – AICKINSTRUT PROFILE

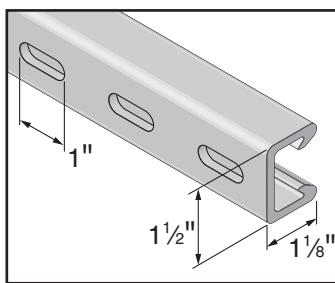
Standard

20P-1000, 20V-1000, 20E-1000



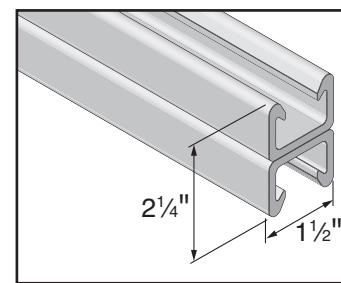
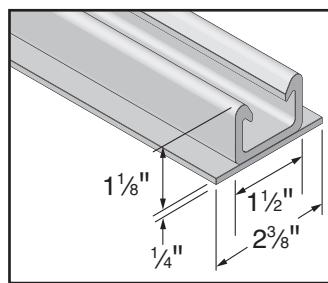
Slotted (1" x 3/8" Holes)

20P-1200, 20V-1200, 20E-1200



With Concrete Inserts

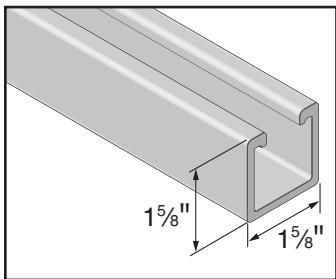
20P-1300, 20V-1300



HEAVY DUTY CHANNEL – STANDARD PROFILE

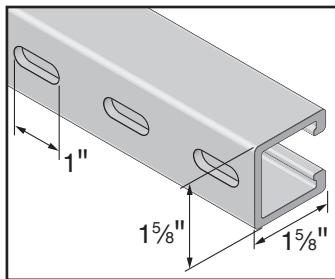
Standard

20P-2000-SST, 20V-2000-SST



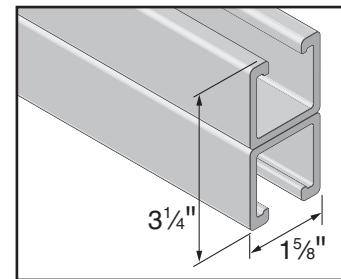
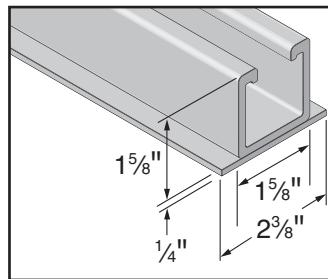
Slotted (1" x 3/8" Holes)

20P-2200-SST, 20V-2200-SST



With Concrete Inserts

20P-2300-SST, 20V-2300-SST



Standard lengths of 10ft. To order 20ft lengths, add -20 to the end of the part number

CHANNEL LOADING

Channel loading generally occurs in one of the following modes:

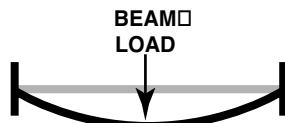
- beam
- column
- flange

BEAM LOADING

Beam loading data reflects the maximum uniform load allowed when using the channel horizontally as in a trapeze hanger. Refer to the table on Page 13 for simple beam loading capacity of various channels. Use the beam loading conversion chart on page 12 to calculate loading capacity for other beam loading conditions.

The Aickinstrut Trapeze hanger is an example of beam loading. To calculate the maximum allowable beam load for an Aickinstrut Trapeze hanger:

1. Measure the distance between the two threaded rod supports.
2. Using the length of the section hanger as the "beam", refer to the appropriate profile size in the Beam Loading Chart to determine whether the deflection meets your requirements.



BEAM LOADING – PVC

The data listed in the Beam Loading Chart reflects testing conducted on Polyester (Type P) and vinyl ester (Type V) channels. PVC (Type E) material will differ from the Polyester/Vinyl ester Beam Loading Chart. To obtain the beam loading for PVC channel, reduce the load as follows:

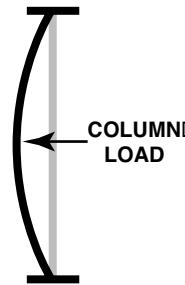
$$\text{PVC Beam Load} = \frac{(\text{Polyester/Vinyl Ester Beam Load})}{4}$$

NOTE: PVC is not recommended for lengths over 24".

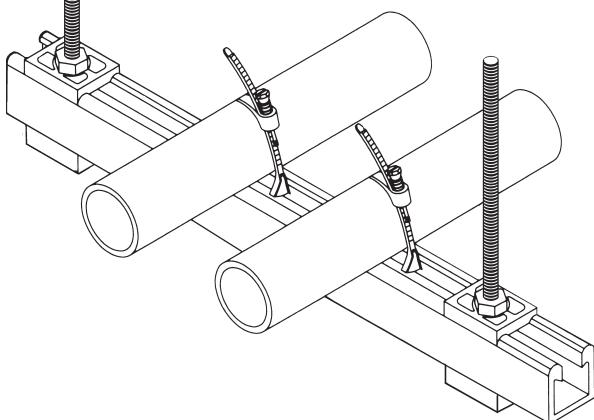
COLUMN LOADING

Column loads are forces applied directly to the end of the channel. Refer to the table on Page 13 for column loading capacity of various channels.

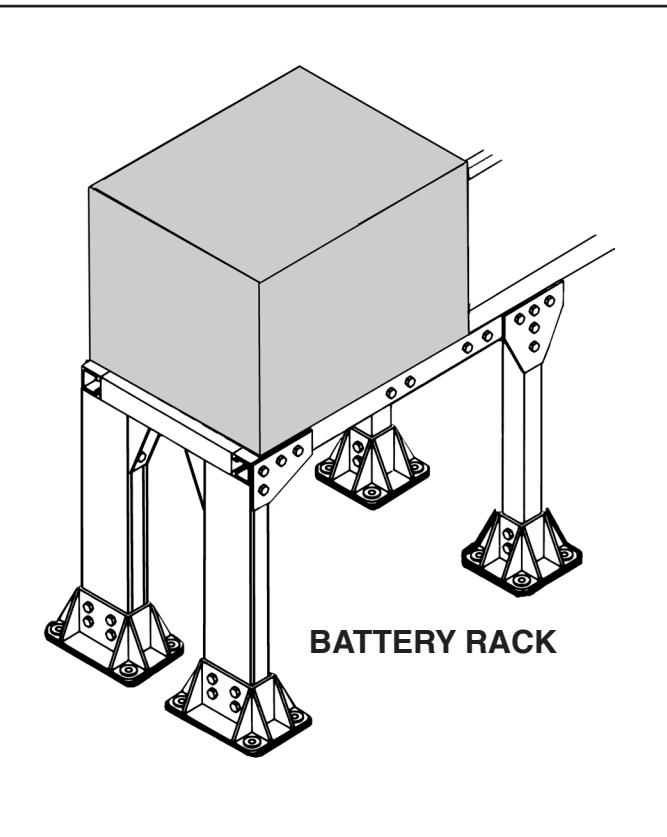
An example of a typical column load would be the pressure exerted on a leg of an Aickinstrut Battery Rack.



**AICKINSTRUT
TRAPEZE HANGER**

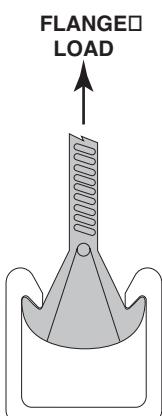


BATTERY RACK



FLANGE LOADING

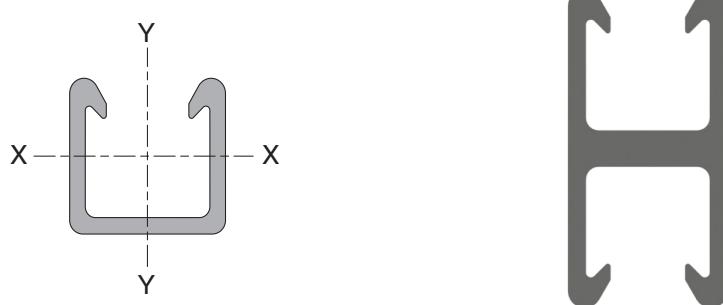
Pull-out strength is the channel's resistance to a clamp or fastener inserted under the flange and put under tension. For additional information concerning specific channels, materials and their pull-out strengths, refer to the channel flange pull-out chart on the right.



Heavy Duty Channel	Pull-Out Strength*
20V-2000	449
20P-2000	360
20E-2000	260
Medium Duty Channel	Pull-Out Strength*
20V-1500	229
20P-1500	219
Light Duty Channel	Pull-Out Strength*
20E-1000	239
20P-1000	213
20V-1000	213

*Values shown represent a 3:1 safety factor

SECTION PROPERTIES



Section Number	Height (in.)	Width (in.)	Weight (lbs./ft.)	Area (in. ²)	X - X Axis				Y - Y Axis			
					I (in. ⁴)	R (in.)	C ¹ (in.)	C ² (in.)	I (in. ⁴)	R (in.)	C (in.)	
2000	1 ⁵ / ₈	1 ⁵ / ₈	0.82	1.06	0.31	0.54	0.70	0.93	0.42	0.63	0.82	
2100	3 ¹ / ₂	1 ⁵ / ₈	1.64	2.12	1.77	0.91	1.63	1.63	0.85	0.63	0.82	
1500	1 ¹ / ₂	1 ¹ / ₂	0.55	0.71	0.19	0.52	0.62	0.88	0.25	0.59	0.75	
1600	3	1 ¹ / ₂	1.10	1.42	1.02	0.85	1.50	1.50	0.49	0.59	0.75	
1000	1 ¹ / ₈	1 ¹ / ₂	0.47	0.61	0.10	0.40	0.51	0.62	0.22	0.60	0.75	
1100	2 ¹ / ₂	1 ¹ / ₂	0.94	1.22	0.42	0.59	1.13	1.13	0.44	0.60	0.75	

The multipliers shown in the beam loading conversion table reflect the adjustments to be made for a variety of beam loading conditions. The multipliers should be used in conjunction with the Beam Loading Chart.

The values in the Beam Loading Chart are based on a simple beam with uniform loading. By using the Beam Loading Conversion Table, you will be able to estimate the maximum recommended loading and deflection for your particular application.

LOAD AND SUPPORT CONDITION	LOAD FACTOR	DEFLECTION FACTOR
1. Simple Beam, Uniform Load	1.00	1.00
2. Simple Beam, Concentrated Load at Center	0.50	0.80
3. Simple Beam, Two Equal Concentrated Loads at 1/4 pts	1.00	1.10
4. Beam Fixed at Both Ends, Uniform Load	1.50	0.30
5. Beam Fixed at Both Ends, Concentrated Load at Center	1.00	0.40
6. Cantilever Beam, Uniform Load	0.25	2.40
7. Cantilever Beam, Concentrated Load at End	0.12	3.20
8. Continuous Beam, Two Equal Spans, Uniform Load on One Span	1.30	0.92
9. Continuous Beam, Two Equal Spans, Uniform Load on Both Ends	1.00	0.42
10. Continuous Beam, Two Equal Spans, Concentrated Load at Center of One Span	0.62	0.71
11. Continuous Beam, Two Equal Spans, Concentrated Load at Center of Each Span	0.67	0.48

EXAMPLE:

Determine load and deflection of a 30" 20P-2100 cantilever beam with a concentrated load on the end.

Solution:

1. From the load table on the previous page, the maximum load for a 30" span is 2,224 lbs. and deflection for that load is 0.177".

2. Multiply by factors from the table above.

$$\text{Load} = 2,224 \text{ lbs.} \times 0.12 = 267 \text{ lbs.}$$

$$\text{Deflection} = 0.177" \times 3.20 = 0.566"$$

3. Thus, the 30" cantilever beam will support a maximum concentrated load of 267 lbs. on the end and that load will cause a 0.566" deflection.

Polyester/Vinyl Ester Beam Loading Chart

Span	Part Number	Max. Uniform Beam Load (Safety Factor - 3:1)		Uniform Load at Defl. of 1/360 Span		Maximum Column Load (lbs.)
		Load (lbs.)	Deflection (in.)	Load (lbs.)	Deflection (in.)	
12" Span	20P/V-2100	5,559	0.028	5,559	0.033	9,454
	20P/V-1600	4,836	0.043	3,778	0.033	7,007
	20P/V-1100	3,804	0.082	1,556	0.033	5,961
	20P/V-2000	3,561	0.102	1,159	0.033	5,160
	20P/V-1500	1,950	0.093	700	0.033	3,439
	20P/V-1000	1,629	0.151	359	0.033	2,759
18" Span	20P/V-2100	3,706	0.064	2,914	0.050	8,866
	20P/V-1600	3,224	0.096	1,697	0.050	6,501
	20P/V-1100	2,536	0.183	691	0.050	5,509
	20P/V-2000	2,374	0.230	515	0.050	4,704
	20P/V-1500	1,300	0.209	311	0.050	3,136
	20P/V-1000	1,086	0.340	160	0.050	2,351
24" Span	20P/V-2100	2,780	0.113	1,639	0.067	8,181
	20P/V-1600	2,418	0.171	944	0.067	5,909
	20P/V-1100	1,902	0.326	389	0.067	4,979
	20P/V-2000	1,781	0.410	290	0.067	4,168
	20P/V-1500	975	0.371	175	0.067	2,778
	20P/V-1000	815	0.605	90	0.067	1,862
30" Span	20P/V-2100	2,224	0.177	1,049	0.083	7,405
	20P/V-1600	1,934	0.267	604	0.083	5,236
	20P/V-1100	1,522	0.509	249	0.083	4,375
	20P/V-2000	1,424	0.640	185	0.083	3,553
	20P/V-1500	780	0.580	112	0.083	2,369
	20P/V-1000	652	0.945	57	0.083	1,298
36" Span	20P/V-2100	1,853	0.254	730	0.100	6,451
	20P/V-1600	1,612	0.384	420	0.100	4,482
	20P/V-1100	1,268	0.734	173	0.100	3,698
	20P/V-2000	1,187	0.922	129	0.100	2,859
	20P/V-1500	650	0.836	78	0.100	1,906
	20P/V-1000	543	1.360	40	0.100	901
48" Span	20P/V-2100	1,390	0.452	410	0.133	4,534
	20P/V-1600	1,209	0.683	236	0.133	2,809
	20P/V-1100	951	1.304	97	0.133	2,254
	20P/V-2000	890	1.638	72	0.133	1,636
	20P/V-1500	488	1.486	44	0.133	1,091
	20P/V-1000	407	2.418	22	0.133	507
60" Span	20P/V-2100	1,112	0.707	262	0.167	2,902
	20P/V-1600	967	1.067	151	0.167	1,798
	20P/V-1100	761	2.038	62	0.167	1,442
	20P/V-2000	712	2.560	46	0.167	1,047
	20P/V-1500	390	2.321	28	0.167	698
	20P/V-1000	326	3.779	14	0.167	324
72" Span	20P/V-2100	927	1.018	182	0.200	2,015
	20P/V-1600	806	1.536	105	0.200	1,248
	20P/V-1100	634	2.935	43	0.200	1,001
	20P/V-2000	594	3.686	32	0.200	727
	20P/V-1500	325	3.343	19	0.200	485
	20P/V-1000	272	5.441	10	0.200	225

CHANNEL FITTINGS

Aickinstrut Channel Fittings are required to fabricate an Aickinstrut structure and are easily attached to Aickinstrut Channels with channel nuts and polyurethane fasteners. The fittings are offered in two types; fabricated (cut from flat stock) or molded. Fabricated fittings are made from either polyester or vinyl ester material. All molded fittings with the exception of the post bases are molded in polyurethane. Post bases are also offered in polypropylene.

The 2500 Series Fittings are manufactured from $\frac{3}{8}$ " flat material. The 2800 Series Fittings are manufactured from $\frac{3}{8}$ " flat material and feature grooves which stabilize the fittings when mounted to the open side of the channel. All channel fittings are provided with $1\frac{3}{32}$ " holes which accommodate $\frac{3}{8}$ " hardware, however several of the new molded fittings come with $\frac{9}{16}$ " holes 50PU-2616, 50PU-2611, and 50PU-2613. Larger diameter holes can be provided upon special request.

Legend

R = Right Hand

L = Left Hand

P Series Fittings are Grey

V Series Fittings are Beige

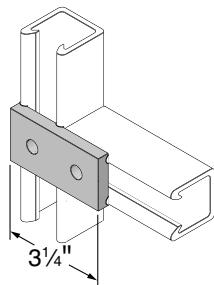
2500 Series - Flat

2800 Series - Grooved

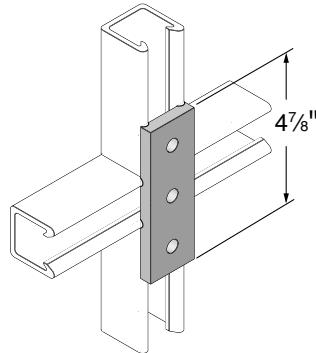
NOTE

Illustrations depict grooved channel fittings.

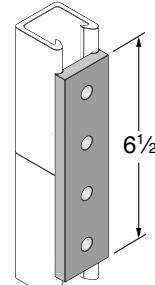
**20P-2500, 20V-2500 (Flat)
20P-2800, 20V-2800 (Grooved)**



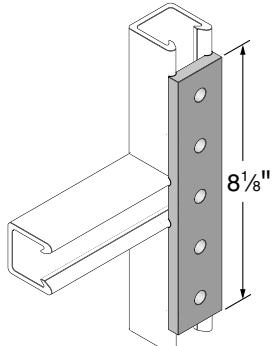
**20P-2502, 20V-2502 (Flat)
20P-2802, 20V-2802 (Grooved)**



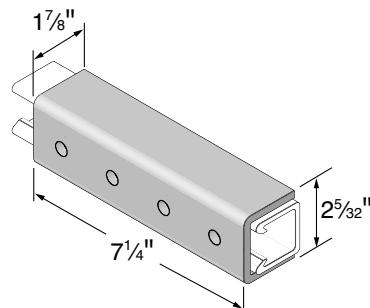
**20P-2504, 20V-2504 (Flat)
20P-2804, 20V-2804 (Grooved)**



**20P-2506, 20V-2506 (Flat)
20P-2806, 20V-2806 (Grooved)**

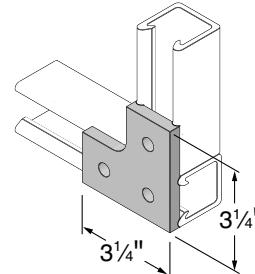


50PU-2616

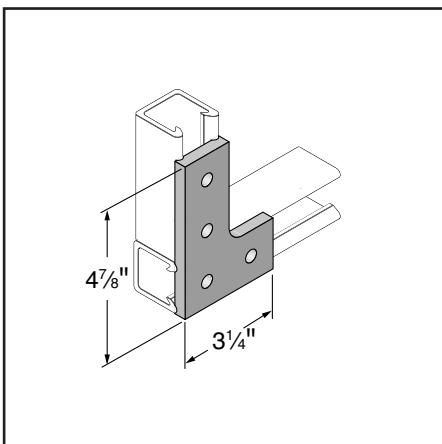


Note: $\frac{9}{16}$ " diameter holes

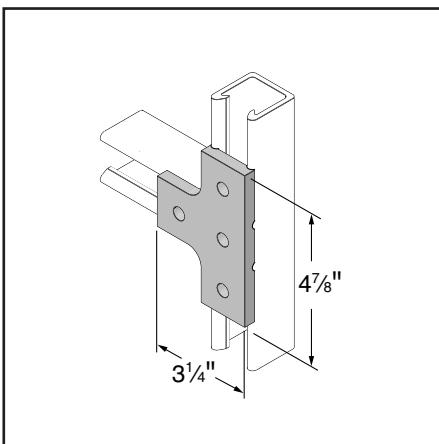
**20P-2508, 20V-2508 (Flat)
20P-2808, 20V-2808 (Grooved)**



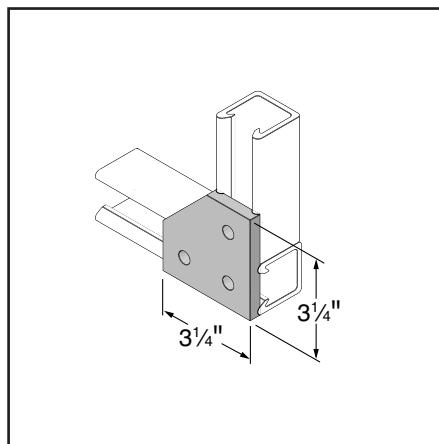
20P-2510, 20V-2510 (Flat)
20P-2810R, 20V-2810R (Grooved)
20P-2810L, 20V-2810L (Grooved)



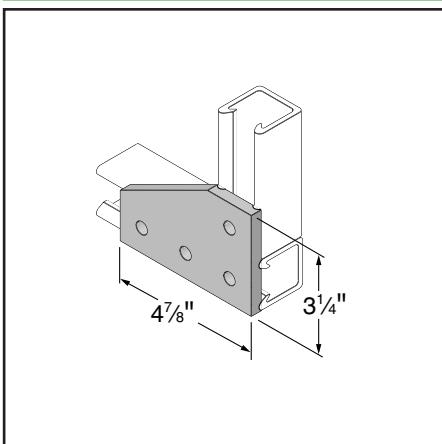
20P-2512, 20V-2512 (Flat)
20P-2812, 20V-2812 (Grooved)



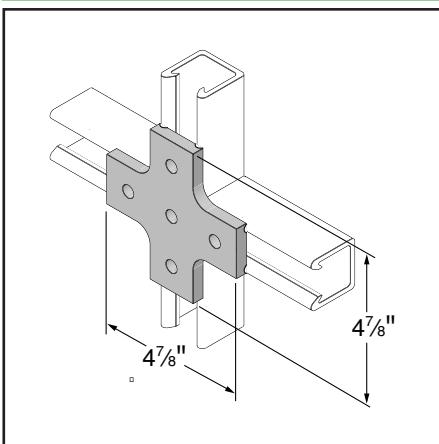
20P-2514, 20V-2514 (Flat)
20P-2814, 20V-2814 (Grooved)



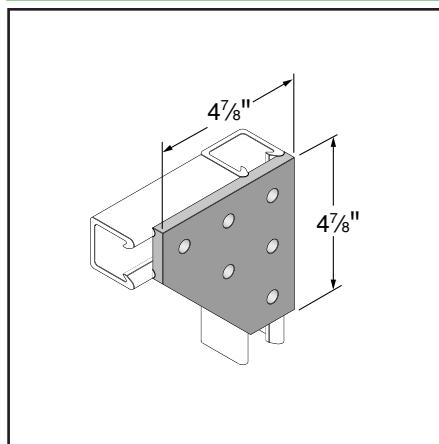
20P-2516, 20V-2516 (Flat)
20P-2816R, 20V-2816R (Grooved)
20P-2816L, 20V-2816L (Grooved)



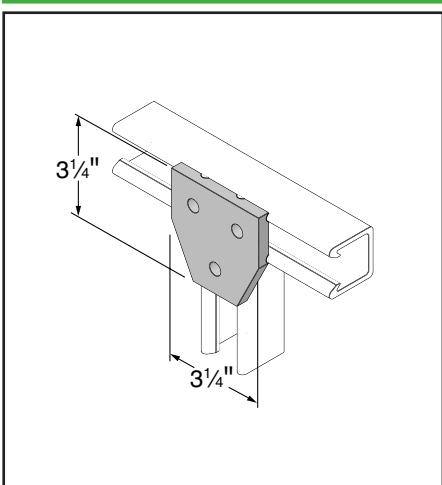
20P-2518, 20V-2518 (Flat)
20P-2818, 20V-2818 (Grooved)



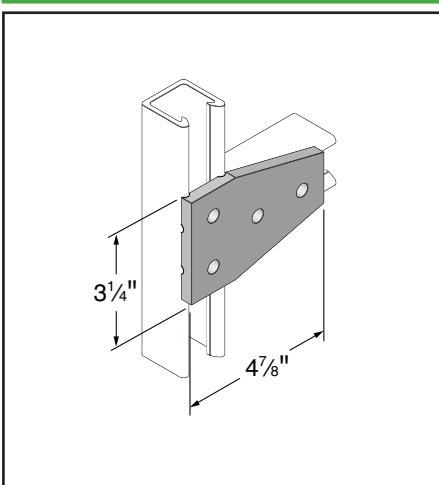
20P-2520, 20V-2520 (Flat)
20P-2820, 20V-2820 (Grooved)



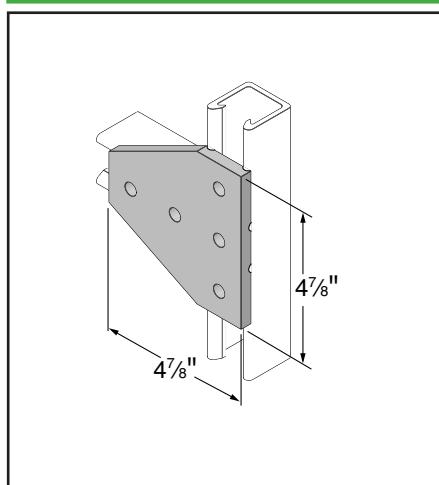
20P-2522, 20V-2522 (Flat)
20P-2822, 20V-2822 (Grooved)



20P-2524, 20V-2524 (Flat)
20P-2824, 20V-2824 (Grooved)



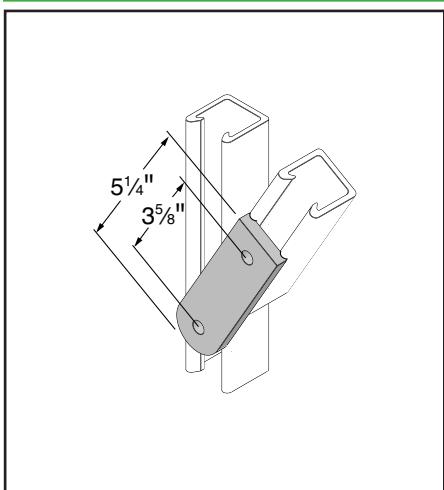
20P-2526, 20V-2526 (Flat)
20P-2826, 20V-2826 (Grooved)



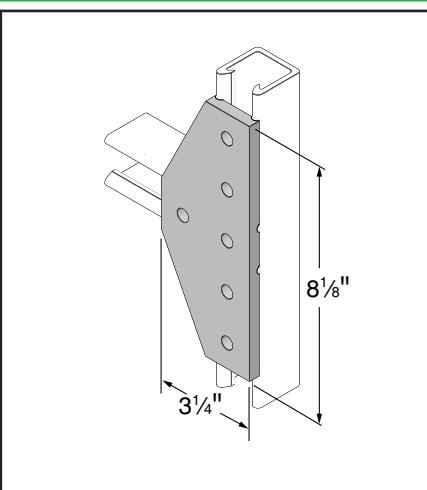
Channel Fittings

Atkore™
Cope

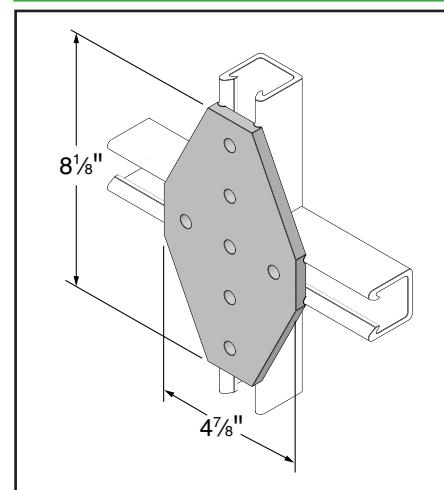
20P-2528, 20V-2528 (Flat)
20P-2828, 20V-2828 (Grooved)



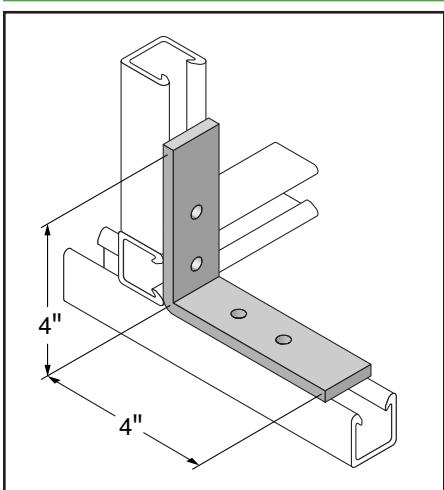
20P-2530, 20V-2530 (Flat)
20P-2830, 20V-2830 (Grooved)



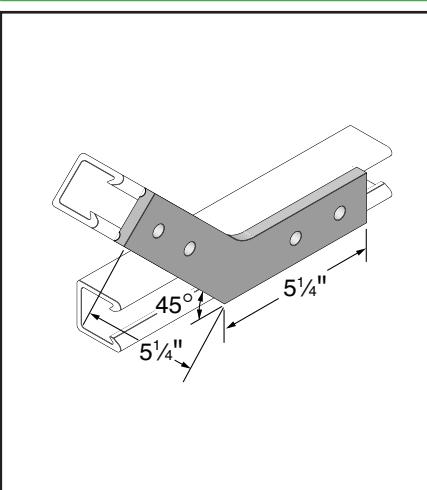
20P-2534, 20V-2534 (Flat)
20P-2834, 20V-2834 (Grooved)



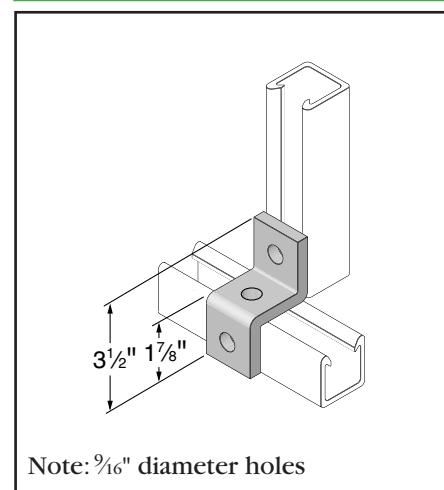
20P-2541, 20V-2541 (Flat)



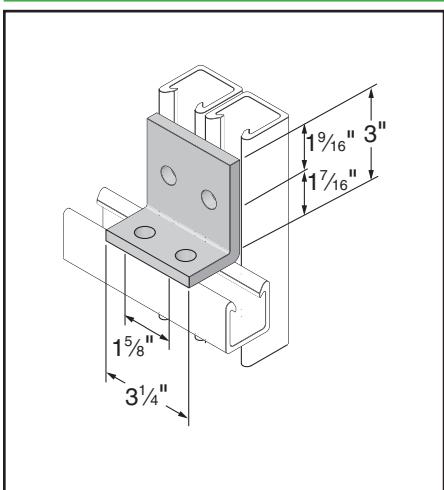
20P-2540, 20V-2540 (Flat)
20P-2840, 20V-2840 (Grooved)



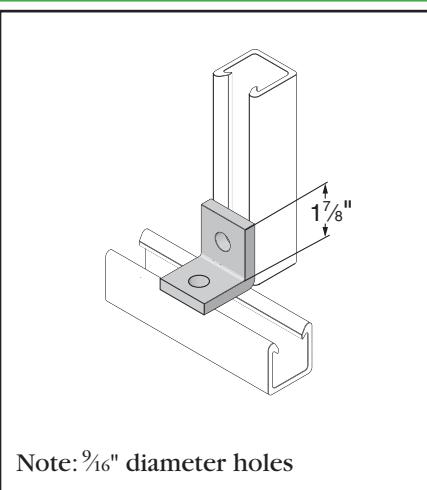
50PU-2611 (Flat)



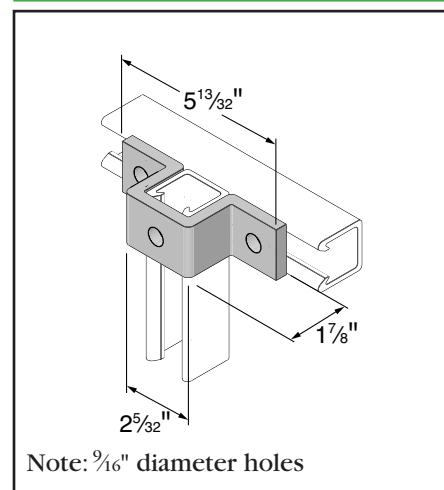
20P-2542, 20V-2542 (Flat)



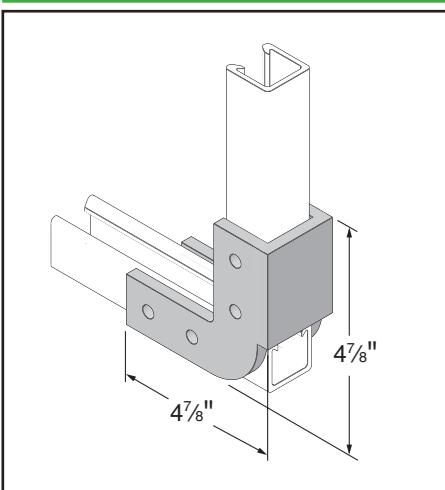
50PU-2611-SP



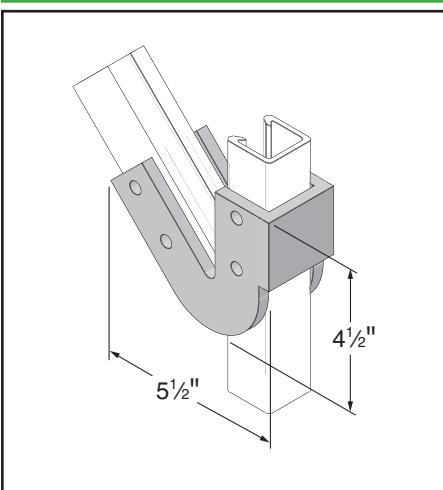
50PU-2613 (Flat)



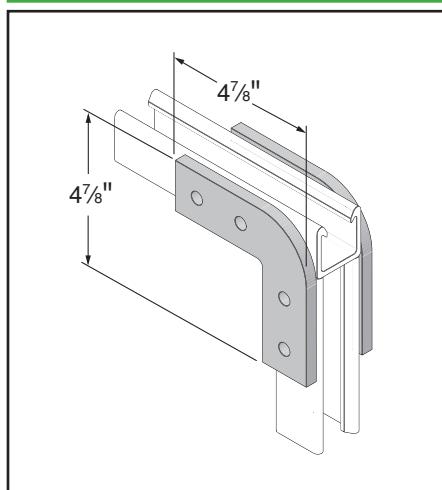
**50PU-1508 (1½")
50PU-2008 (1⅜")**



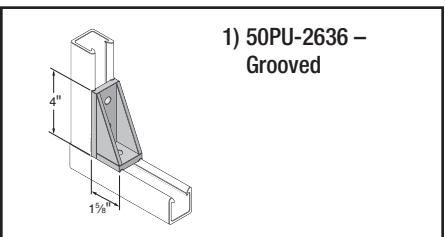
50PU-2045 (1⅜")



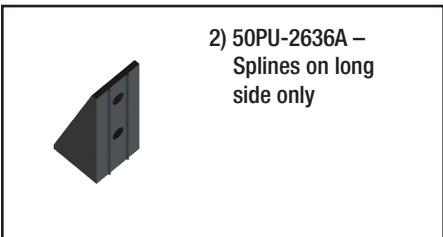
50PU-2090 (1⅜")



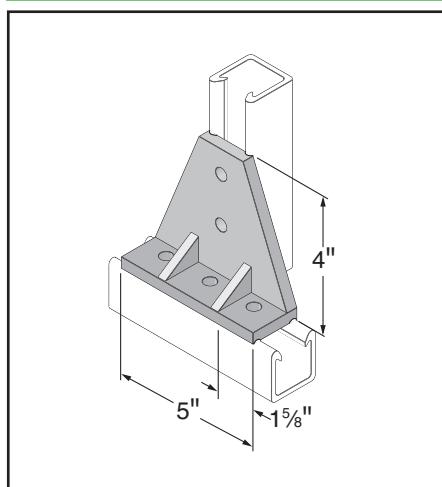
50PU-2636¹



50PU-2636A²



50PU-2538 (*Flat*)



50PU-2636B³

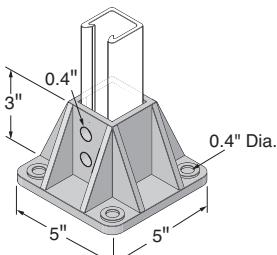


50PU-2936⁴

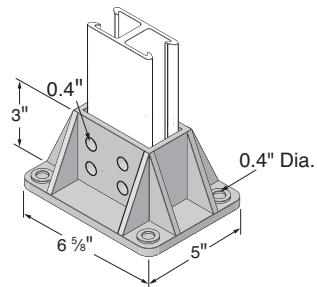


**20PU-5853 (1⅜"), 20PU-5854 (1½"),
20PU-5855 (1⅜"), 20PP-5853 (1⅜"),
20PP-5854 (1½"), 20PP-5855 (1⅜")**

**20PU-5903 (3¼"), 20PU-5904 (3"),
20PU-5905 (2¼"), 20PP-5903 (3¼"),
20PP-5904 (3"), 20PP-5905 (2¼")**



Note: Single post base - ¾ x 1-½ to use with channel nut



Note: Double post base- ¾ x 2.5 to go all the way through

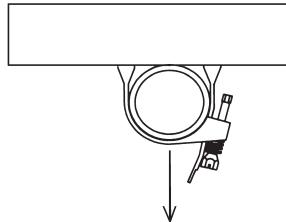
Note: Grooved fittings are designed to aid in the alignment of connecting two pieces Aickinstrut. The groove is engineered to wrap around the channel to secure the accurate connection without the use of angle tools. Grooved fittings are to be used with standard Aickinstrut channels only.

AICKINCLAMPS DESIGN LOAD INFORMATION

There are two types of piping system loadings, overhead (Type 1) and vertical (Type 2) as described below. All Aickinstrut pipe straps and clamps show the recommended loading for both types of loading.

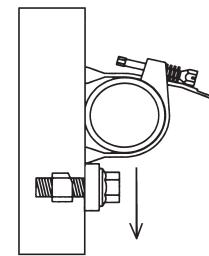
Type 1 Design Load

The design load shown represents pipes supported below the strut. The design loads shown are based on a minimum ultimate failure safety factor of 3:1.



Type 2 Design Load

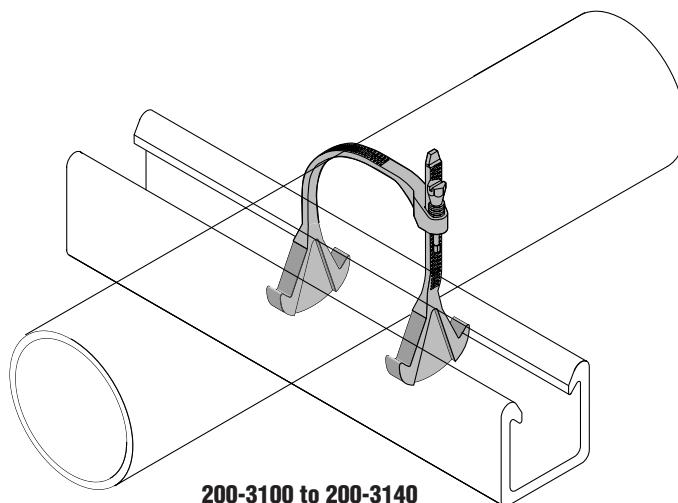
The design loading shown can be achieved with the addition of a vertical stop lock assembly (Part #200-4219) installed directly beneath the pipe clamp. The adjacent illustration shows how the vertical stop lock assembly provides additional support for pipe and how it can be used to achieve full Type 2 design loads.



Design loads are based on a minimum clamp slip safety factor of 3:1. It is recommended that stop lock assemblies be used for all vertical pipe support applications.

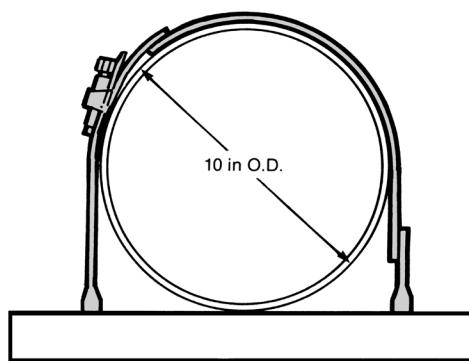
Adjustable Pipe Clamps

Aickinstrut Adjustable Pipe Clamps are manufactured from glass-reinforced polyurethane and are adjustable to accommodate a wide range of outside diameters. They can be utilized with a variety of piping systems including: PVC, fiberglass, copper, rigid steel conduit and PVC coated rigid steel conduit. Aickinclamps sized 6½" - 20" are to be used only in non-load bearing applications. These are applications where the weight of the pipe is being supported by Aickinstrut structural members (see figure on right). Aickinclamps can safely be used in temperatures up to 160°F. For operating temperatures of 160-230°F, it is recommended to use PVDF clamps. PVDF clamps are available as a special order. Contact the factory for pricing and availability. Care should be taken not to exceed 3 ft./lbs. of torque on the adjustable pipe straps.



Part Number	O.D. Pipe Size (in.)	Design Load (lbs.)*	Torque (ft./lbs.)
	Type 1	Type 2	
200-3100	½ - 1½	135	10 in./lbs.
200-3110	1½ - 2¼	135	3
200-3120	2¼ - 3¼	145	3
200-3130	3 - 4	215	3
200-3140	4 - 6½	215	3

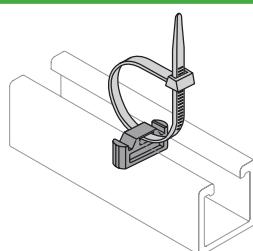
*Design loads shown represent a 3:1 safety factor.



Strap Polyurethane Insert

Note: For use with -SST systems only

Part Number
200-4101



Rigid Pipe Clamps

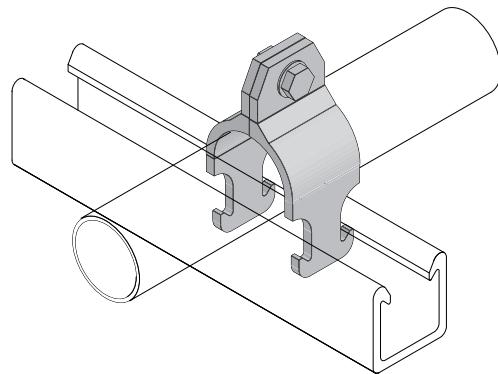
Aickinstrut Rigid Pipe Clamps resemble the more traditional style of pipe clamps. These clamps are made from glass-reinforced polyurethane and are sized based on the pipe inside diameter or nominal size.

Polyurethane clamps are recommended for applications up to 160°F. For high temperature applications (up to 230°F), PVDF clamps are available as a special order. Contact the factory for pricing and availability.

Care should be taken not to exceed the recommended torque values of the rigid pipe clamps.

Part Number	Nominal Size (in.)	PVC		Design		FRP Bolt Size (in.)	FRP Bolt Torque (ft./lbs.)
		Sch. 80 and Rigid Metal	Loads (lbs.)*	Type 1	Type 2		
PCR-050	1/2	0.840	225	90	90	3/8 x 1 1/4	3
PCR-075	3/4	1.050	225	90	90	3/8 x 1 1/4	3
PCR-100	1	1.315	225	90	90	3/8 x 1 1/4	3
PCR-125	1 1/4	1.660	225	90	90	3/8 x 1 1/4	3
PCR-150	1 1/2	1.900	225	90	90	3/8 x 1 1/4	3
PCR-200	2	2.375	225	90	90	3/8 x 1 1/4	3
PCR-250	2 1/2	2.875	225	90	90	3/8 x 1 1/4	3
PCR-300	3	3.500	225	90	90	3/8 x 1 1/4	3
PCR-400	4	4.500	300	125	125	3/8 x 1 1/4	3
PCR-600	6	6.625	300	125	125	3/8 x 1 1/4	3
PCR-800	8	8.625	300	125	125	3/8 x 1 1/4	3

*Design loads shown represent a 3:1 safety factor.



Note: Hardware included (1) 375PU-125 and (1) 375PU-000

Two Hole Pipe Straps

Aickinstrut Two Hole Pipe Straps are designed for use in securing pipe, conduit and ducts to Aickinstrut 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.

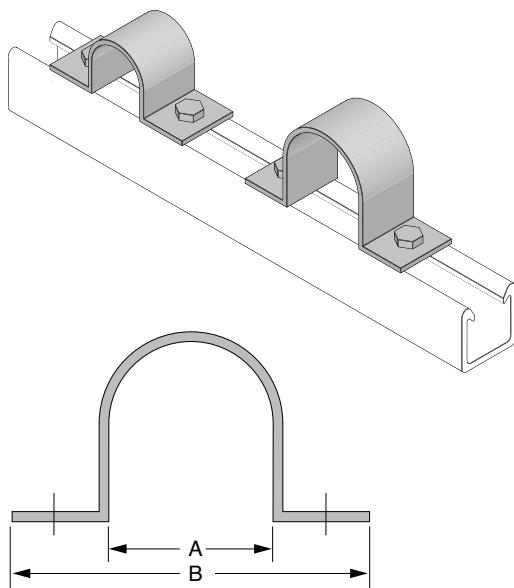
The two hole pipe straps are manufactured from a fire-retardant, glass reinforced polyester resin. For extreme

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.

Part Number	Dimension A (in.)	Dimension B (in.)	Bolt Size (in.)	Material Size (in.)	Design Load (lbs.)*	Torque (ft./lbs.)
				Type 1	Type 2	
PS050	0.840	4.840	1/2	1/4 x 1 5/8	135	50
PS075	1.050	5.050	1/2	1/4 x 1 5/8	135	50
PS100	1.315	5.315	1/2	1/4 x 1 5/8	135	50
PS150	1.900	5.900	1/2	1/4 x 1 5/8	135	50
PS200	2 3/8	6.375	1/2	1/4 x 1 5/8	135	50
PS250	2 7/8	6.875	1/2	1/4 x 1 5/8	135	50
PS300	3 1/2	7.500	1/2	1/4 x 1 5/8	135	50
PS350	4	8.000	1/2	1/4 x 1 5/8	135	50
PS400	4 1/2	8.500	1/2	1/4 x 1 5/8	175	60
PS500	5 5/16	9.563	1/2	1/4 x 1 5/8	175	60
PS600	6 5/8	10.625	1/2	1/4 x 1 5/8	175	60
PS800	8 5/8	12.625	1/2	1/4 x 1 5/8	225	125
PS1000	10 3/4	15.750	5/8	1/4 x 1 5/8	225	125
PS1200	12 3/4	16.250	5/8	1/4 x 1 5/8	225	125
PS1400	14	18.000	5/8	3/8 x 1 5/8	250	150
PS1600	16	20.000	5/8	3/8 x 1 5/8	250	150
PS1800	18	23.000	5/8	3/8 x 1 5/8	250	150

*Design loads shown represent a 3:1 safety factor.

Notes: Bolts and channel nuts are sold separately.

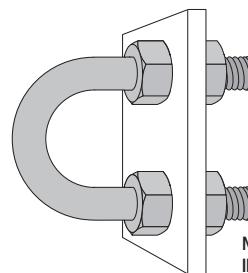


When bolting onto 1 5/8" or 1 1/2" channel
a 1 1/4" long bolt is required.

Nonmetallic U-bolts

Aickinstrut Nonmetallic U-Bolts provide a corrosion resistant alternative to traditional metallic U-Bolts. Made from glass-reinforced polyurethane, these bolts will outlast stainless steel in most corrosive applications. Nonmetallic U-Bolts have oversized diameters which allow them to hold steel conduit and plastic pipe.

Each U-Bolt comes with two polyurethane hex nuts. Additional nuts and washers can be purchased separately.

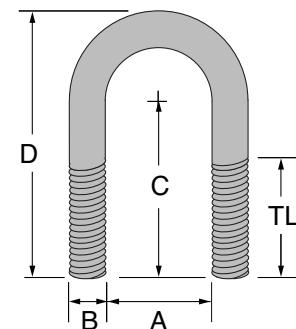


The U-Bolts can also be installed to allow for thermal expansion and contraction of plastic pipe as shown here.

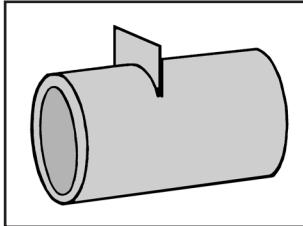
Note: Plate not included.
Illustration purpose only

Part Number	Size (in.)	"A" Dim.	"B" Dim.	"C" Dim.	"D" Dim.	"TL" Dim.	Load (lbs.)*	Torque (in./lbs.)*
UB-050	1/2	0.937	0.375	1.568	2.412	1.25	135	40
UB-075	3/4	1.125	0.375	1.662	2.600	1.25	135	40
UB-100	1	1.375	0.375	1.787	2.850	1.25	135	40
UB-125	1 1/4	1.687	0.375	1.943	3.162	1.25	135	40
UB-150	1 1/2	2.000	0.375	2.100	3.475	1.25	135	40
UB-200	2	2.437	0.500	2.468	4.187	1.50	135	80
UB-250	2 1/2	2.937	0.500	2.718	4.687	1.50	135	80
UB-300	3	3.562	0.500	3.031	5.312	1.50	135	80
UB-350	3 1/2	4.062	0.500	3.281	5.812	1.50	135	80
UB-400	4	4.562	0.500	3.531	6.312	1.50	135	80
UB-600	6	6.750	0.625	5.750	9.875	3.25	135	120

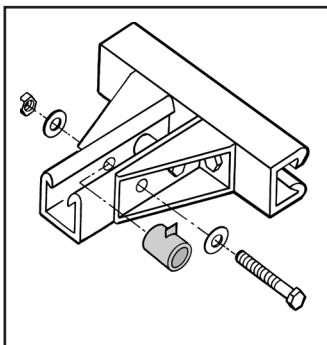
*Torque and load values shown represent a 3:1 safety factor.



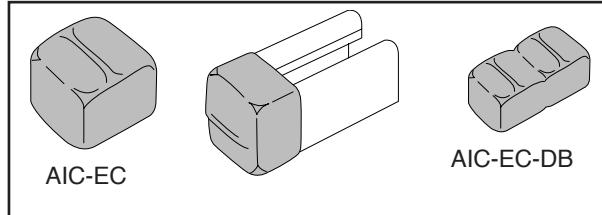
Channel Spacers 50PU-500SP



Channel spacers are designed to prevent wall compression under heavy loading conditions. Such loading occurs during the torquing of hardware for channel fittings. The spacers are molded from polyurethane and will accommodate 3/8" and 1/2" bolts. The spacers are designed to be used only with 1 5/8" and 1 1/2" channels.

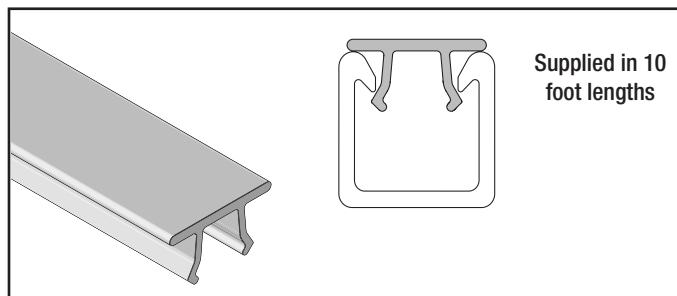


Channel End Cap AIC-EC



The Aickin-End Cap is made from red PVC and designed for 1 5/8" channel. End caps are desired when the ends of the channel need to be enclosed. The Aickin-End Cap easily installs by pressing it onto the end of the channel opening.

Channel Capping Strip 20E-5000



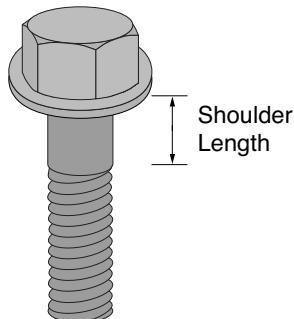
Channel Capping Strip is made from PVC and installs simply by pressing it onto the channel opening. It is designed to be used when a cover is desired for the channel opening (such as concrete embedment channel).

Fiberfast Bolts

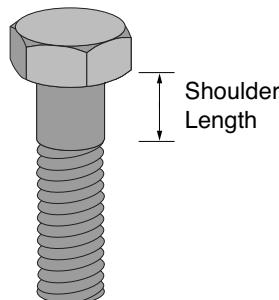
Fiberfast bolts are provided in two styles and five diameters ($\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ ") and range in length from $1\frac{1}{4}$ " to $3\frac{1}{2}$ ". The flanged style incorporates a molded washer collar which eliminates the need for a washer. The flanged style is provided for $\frac{1}{4}$ " and $\frac{1}{2}$ " diameter bolts. Flanged bolts are available in $\frac{3}{8}$ " diameter as a special order item. The hex head style is provided for all $\frac{3}{8}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ " diameter bolts. All Fiberfast bolts are not fully threaded, therefore, shoulder

length (nonthreaded portion) dimensions have been provided. Fiberfast bolts are ideal for mechanical connections that require a high degree of corrosion resistance. The $\frac{3}{8}$ " diameter fasteners are recommended for all channel fitting mechanical connections. All Fiberfast bolts are manufactured from glass-reinforced polyurethane and are packaged in bags containing 25 pieces.

Hex Flange Bolts



Hex Bolts



Part Number	Size (in.)	Thread Shear (lbs.)*	Shank Shear (lbs.)*	Shoulder Length (in.)	Torque (ft./lbs.)
250PU-075	$\frac{1}{4} \times \frac{3}{4}$	110	210	Full Thread	10 in./lbs.
250PU-100	$\frac{1}{4} \times 1$	110	210	Full Thread	10 in./lbs.
250PU-150	$\frac{1}{4} \times 1\frac{1}{2}$	110	210	$\frac{1}{2}$	10 in./lbs.
312PU-100	$\frac{1}{4} \times 1$				
312PU-125	$\frac{1}{4} \times 1.25$				
312PU-200	$\frac{1}{4} \times 2$				
500PU-125	$\frac{1}{2} \times 1\frac{1}{4}$	450	870	Full Thread	8
500PU-150	$\frac{1}{2} \times 1\frac{1}{2}$	450	870	Full Thread	8
500PU-200	$\frac{1}{2} \times 2$	450	870	$\frac{3}{4}$	8
500PU-250	$\frac{1}{2} \times 2\frac{1}{2}$	450	870	$\frac{3}{4}$	8
500PU-300	$\frac{1}{2} \times 3$	450	870	1	8
500PU-350	$\frac{1}{2} \times 3\frac{1}{2}$	450	870	$2\frac{3}{16}$	8

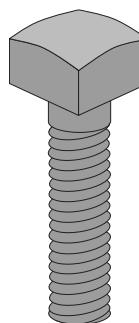
*Thread shear values shown represent a 3:1 safety factor.

Part Number	Size (in.)	Thread Shear (lbs.)*	Shank Shear (lbs.)*	Shoulder Length (in.)	Torque (ft./lbs.)
375PU-125	$\frac{3}{8} \times 1\frac{1}{4}$	250	470	Full Thread	3
375PU-150	$\frac{3}{8} \times 1\frac{1}{2}$	250	470	$\frac{1}{4}$	3
375PU-200	$\frac{3}{8} \times 2$	250	470	$\frac{1}{2}$	3
375PU-250	$\frac{3}{8} \times 2\frac{1}{2}$	250	470	$\frac{3}{4}$	3
375PU-300	$\frac{3}{8} \times 3$	250	470	1	3
625PU-125	$\frac{5}{8} \times 1\frac{1}{4}$	700	1,360	$\frac{1}{4}$	12
625PU-150	$\frac{5}{8} \times 1\frac{1}{2}$	700	1,360	$\frac{1}{4}$	12
625PU-200	$\frac{5}{8} \times 2$	700	1,360	$\frac{1}{4}$	12
625PU-250	$\frac{5}{8} \times 2\frac{1}{2}$	700	1,360	$\frac{1}{4}$	12
625PU-300	$\frac{5}{8} \times 3$	700	1,360	$\frac{1}{4}$	12
625PU-350	$\frac{5}{8} \times 3\frac{1}{2}$	700	1,360	$1\frac{1}{4}$	12

*Thread shear values shown represent a 3:1 safety factor.

Vinyl Ester Square Head Bolts

Vinyl ester square head bolts are used for concrete mounting and general purpose fastening applications. The square head bolts are constructed from vinyl ester all-thread rod and vinyl ester square nuts. The units are bonded together with a durable two part urethane adhesive. The square head bolts are offered in $\frac{3}{8}$ " diameter but can be supplied in other diameters as a special order. Contact the factory for pricing and availability of special diameter square head bolts.



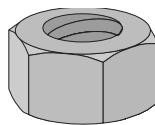
Part Number	Size (in.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
375V-100	$\frac{3}{8} \times 1$	250	10
375V-125	$\frac{3}{8} \times 1\frac{1}{4}$	250	10
375V-150	$\frac{3}{8} \times 1\frac{1}{2}$	250	10
375V-175	$\frac{3}{8} \times 1\frac{3}{4}$	250	10
375V-200	$\frac{3}{8} \times 2$	250	10
375V-250	$\frac{3}{8} \times 2\frac{1}{2}$	250	10
375V-300	$\frac{3}{8} \times 3$	250	10
375V-350	$\frac{3}{8} \times 3\frac{1}{2}$	250	10
375V-400	$\frac{3}{8} \times 4$	250	10

*Thread shear values shown represent a 3:1 safety factor.

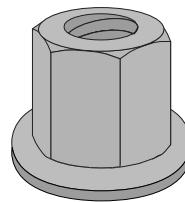
Fiberfast Hex Nuts

Aickinstrut hex nuts are available in two styles; hex and hex flange nuts. The Aickinstrut hex nut is similar in design to the conventional hex nut and is preferred for channel fitting connections. The Aickinstrut hex flange nut is preferred for applications that require additional thread engagement (such as with all-thread rod) or maximum

Hex Nuts

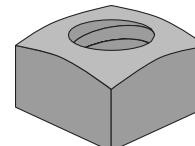


Hex Flange Nuts



Vinyl Ester Square Nuts

Square nuts are manufactured from pultruded vinyl ester square stock. They are recommended for applications that require high thread shear values. Square nuts are packaged in bags containing 25 pieces.



Part Number	Size (in.)	Thread Shear			Height (in.)	Torque (ft./lbs.)
		Shear (lbs.)*	Height (in.)	Torque (ft./lbs.)		
250PU-000	1/4-20	150	0.218	10 in./lbs.		
375PU-000	5/8-16	460	0.328	3		
500PU-000	1/2-13	800	0.437	8		
625PU-000	5/8-11	1,000	0.546	12		
750PU-000	3-10	1,000	0.640	15		
1000PU-000	1-8	1,100	0.859	17		

*Thread shear values shown represent a 3:1 safety factor.

Part Number	Size (in.)	Thread Shear			Height (in.)	Torque (ft./lbs.)
		Shear (lbs.)*	Height (in.)	Torque (ft./lbs.)		
312PU-000						
375PU-FN-000	5/8-16	500	0.750	3		
500PU-FN-000	1/2-13	1,200	0.855	8		
625PU-FN-000	5/8-11	2,200	1.220	12		
750PU-FN-000	3/4-10	2,900	1.590	15		
1000PU-FN-000	1-8	2900	1.75	17		

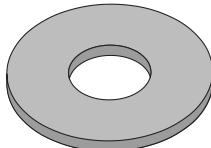
*Thread shear values shown represent a 3:1 safety factor.

Part Number	Size (in.)	Thread Shear			Height (in.)	Torque (ft./lbs.)
		Shear (lbs.)*	Height (in.)	Torque (ft./lbs.)		
375V-000	3/8-16	1,300	0.437	10		
500V-000	1/2-13	1,700	0.562	10		
625V-000	5/8-11	1,700	0.687	10		
750V-000	3/4-10	1,700	0.812	10		
1000V-000	1-8	1,700	0.937	10		

*Thread shear values shown represent a 3:1 safety factor.

Flat Washers

Flat Washers are made from PVC and are available for $\frac{1}{4}$ " diameter through 1". PVC washers are recommended for connections that utilize hex nuts and bolts. PVC washers are packaged in bags containing 25 pieces.

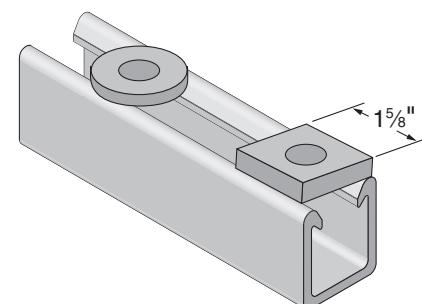


Part Number	Size (in.)	Outside Diameter	
		(in.)	(in.)
250E-999	1/4	0.49	
312E-999			
375E-999	5/8	1.00	
500E-999	1/2	1.25	
625E-999	5/8	1.50	
750E-999	3/4	1.50	
1000E-999	1	2.25	

All-Thread Washers

Aickinstrut All-Thread Washers are flat fiberglass washers for use with FRP all-thread rods. All-Thread rod washers are $\frac{1}{4}$ " thick with a $1\frac{7}{8}$ " diameter and are available in polyester or vinyl ester resin.

To order vinyl ester, add the suffix "V" to the part number.



Part Number Round Washer*	Part Number Square Washer	All-Thread Rod Size (in.)
WR375	WR375SQ	$\frac{3}{8}$
WR500	WR500SQ	$\frac{1}{2}$
WR625	WR625SQ	$\frac{5}{8}$
WR750	WR750SQ	$\frac{3}{4}$

* Add the suffix "V" to the part number to specify vinyl ester
Example "WR500V"

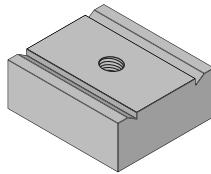
* Add the suffix "-SQ" to the part number to specify square washer
Example "WR500-SQ"

Channel Nuts

Channel nuts are provided in two types; Standard Duty and Heavy Duty. Standard Duty channel nuts are designed for light duty applications that do not require high thread shear values. Standard duty channel nuts can also be used with all sizes of Aickinstrut Channel. Heavy duty channel nuts are designed to be used where high thread shear values or

spring nuts are required. Heavy duty channel nuts can not be used with Series 1000 Channel (light duty). All channel nuts are manufactured from glass-reinforced polyurethane and are packaged in bags containing 25 pieces. Channel nuts are also available in PVDF as a special order. Contact the factory for pricing and availability.

Heavy Duty Channel Nuts

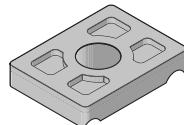
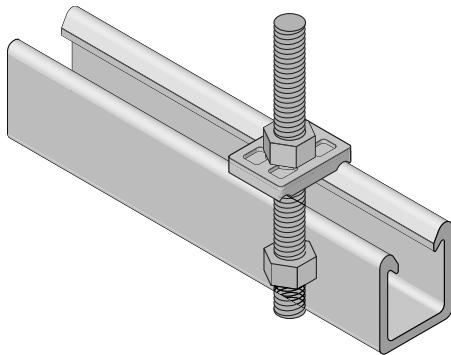


Part Number	Size (in.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
375PU-CNHD	3/8-16	1,400	8
500PU-CNHD	1/2-13	1,400	8
625PU-CNHD	5/8-11	1,400	10
750PU-CNHD	3/4-10	1,400	10
10PU-CNMHD	10 mm	1,400	8
12PU-CNMHD	12 mm	1,400	8
16PU-CNMHD	16 mm	1,400	10
20PU-CNMHD	20 mm	1,400	10

*Thread shear values shown represent a 3:1 safety factor.

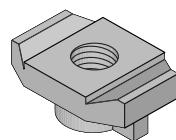
Saddle Clips

Aickinstrut Saddle Clips make fastening through Aickinstrut channel much easier. The clips mate with the exterior of the channel flanges and are secured with threaded rods and nuts. The saddle clips are manufactured from glass reinforced polyurethane and are supplied in bags of 25 pieces.



Part Number	Size (In.)
200-4226	3/8
200-4217	1/2
200-4341	5/8
200-4342	3/4

Standard Duty Channel Nuts



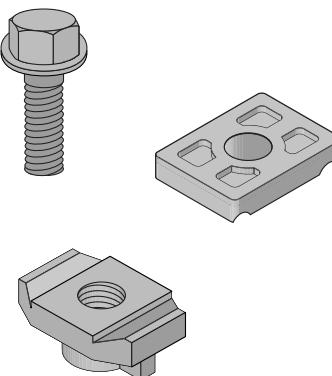
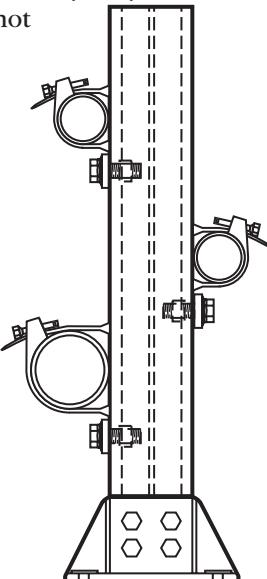
Part Number	Size (in.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
250PU-CN	1/4-20	460	2
312PU-CN	5/16-18	460	2
375PU-CN	3/8-16	460	3
500PU-CN	1/2-13	460	3
10PU-CN	10 mm	460	3
12PU-CN	12 mm	460	3
10PU-CNS	#10 Screw	460	N/A

*Thread shear values shown represent a 3:1 safety factor.

Stop-Lock Assemblies

Aickinstrut Stop-Lock Assemblies reduce the chance of pipe slippage when running supports vertically. Stop-Locks are recommended for applications that are subject to vibration, have regular contact with fluids or are vertically mounted (Type 2). The Stop-Locks fit all three sizes of channel. Stop-Locks are offered with a 3/8", 1/2" and 5/8" bolt size. The 5/8" Stop-Lock Assembly is supplied with a heavy duty channel nut (the 5/8" Stop-Lock Assembly will not work with the 1000 Series Channel).

The Stop-Lock Assemblies' components are manufactured from glass-reinforced polyurethane.



Part Number	Size (in.)	Force Resistance (lbs.)*	Torque (ft./lbs.)
200-4227	3/8	200	7
200-4219	1/2	220	12
200-4343	5/8	250	15

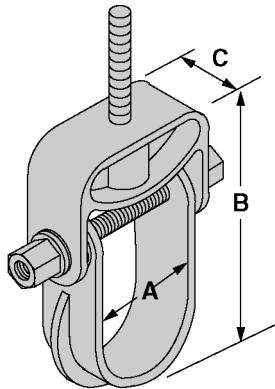
*Force resistance values shown represents a 3:1 safety factor.

Clevis Hangers

Clevis hangers are available in two styles; molded and hand lay-up. The molded clevis hangers are manufactured from glass-reinforced polyurethane and are available for sizes $\frac{1}{2}$ "

through 6". The hand lay-up clevis hangers are manufactured from glass-reinforced polyester and are available for sizes 1" through 24".

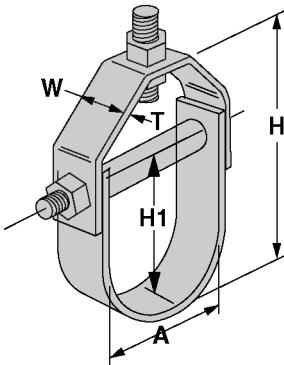
Molded Clevis Hangers



Part Number	Nominal Diameter (in.)	Max. Pipe O.D. (in.)	"A" Dim.	"B" Dim.	"C" Dim.	Hanger Rod (in.)	Load (lbs.)*
CVHPU-100	$\frac{1}{2}$ - 1	1	1.500	4.25	1.25	$\frac{1}{2}$	670
CVHPU-150	$1\frac{1}{4}$ - $1\frac{1}{2}$	$1\frac{1}{2}$	2.000	5.14	1.25	$\frac{1}{2}$	670
CVHPU-200	$1\frac{1}{2}$ - 2	2	2.500	6.52	1.25	$\frac{1}{2}$	730
CVHPU-400	$2\frac{1}{2}$ - 4	4	5.125	10.00	1.50	$\frac{1}{2}$	1,150
CVHPU-600	$4\frac{1}{2}$ - 6	6	6.750	12.33	1.50	$\frac{1}{2}$	1,170

*Design load values shown represent a 3:1 safety factor.

Hand Lay-Up Clevis Hangers



Part Number	Size Range (In.)	Dimensions (in.)					Hanger Rod (in.)	Trans Rod (in.)	Spreader Rod O.D. (in.)	Loads (lbs.)*
	A	T	H	H1	W					
100-1500	1 - $1\frac{1}{2}$	$\frac{1}{8}$	$2\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{1}{2}$		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	60
100-1501	$1\frac{1}{2}$ - 2	$\frac{1}{8}$	$3\frac{1}{2}$	$2\frac{3}{8}$	$1\frac{1}{2}$		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	60
100-1502	2 - $2\frac{5}{8}$	$\frac{1}{8}$	$4\frac{3}{4}$	3	2		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	90
100-1503	$2\frac{1}{2}$ - $3\frac{1}{4}$	$\frac{1}{8}$	$5\frac{1}{2}$	$3\frac{5}{8}$	2		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	120
100-1504	$3 - 3\frac{7}{8}$	$\frac{1}{8}$	7	$4\frac{1}{4}$	2		$\frac{5}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	160
100-1505	$4 - 5\frac{1}{8}$	$\frac{3}{16}$	$8\frac{1}{2}$	$5\frac{5}{8}$	2		$\frac{5}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	250
100-1506	$6 - 7\frac{1}{8}$	$\frac{3}{16}$	$10\frac{7}{8}$	$7\frac{1}{2}$	3		$\frac{5}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	300
100-1507	$8 - 9\frac{1}{4}$	$\frac{1}{4}$	14	$9\frac{3}{4}$	3		$\frac{5}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	350
100-1508	$10 - 11\frac{3}{8}$	$\frac{1}{4}$	18	12	4		$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	450
100-1509	$12 - 13\frac{1}{2}$	$\frac{1}{4}$	$21\frac{1}{2}$	$14\frac{1}{8}$	5		$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	600
100-1510	$14 - 15\frac{3}{4}$	$\frac{1}{4}$	$24\frac{1}{2}$	$16\frac{1}{2}$	5		$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	700
100-1511	$16 - 18$	$\frac{3}{8}$	$27\frac{3}{8}$	$19\frac{1}{2}$	6		$\frac{3}{4}$	$\frac{3}{4}$	1	750
100-1512	19 - 21	$\frac{3}{8}$	$34\frac{1}{2}$	$22\frac{1}{2}$	6		$\frac{3}{4}$	$\frac{3}{4}$	1	800
100-1513	21 - 22	$\frac{1}{2}$	$35\frac{1}{2}$	24	6		$\frac{3}{4}$	$\frac{3}{4}$	1	850
100-1514	22 - 24	$\frac{1}{2}$	41	28	6		$\frac{3}{4}$	$\frac{3}{4}$	1	900

*Design load values shown represent a 3:1 safety factor.

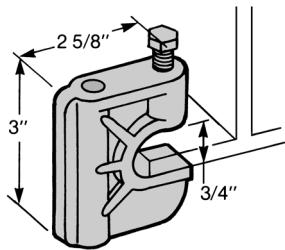
Beam Clamps

Aickinstrut beam clamps are available in two styles; molded and fabricated. The molded beam clamps are manufactured from glass-reinforced polyurethane and can accommodate $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " hanger rod sizes. The molded beam clamps utilize the traditional "C" clamp style design. The fabrication beam clamps are manufactured from vinyl ester flat stock and utilize polyurethane bolts and channel

nuts for clamping. Fabricated beam clamps are available for attaching to $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ " thick beam flanges. Each fabricated beam clamp assembly includes four (4) $\frac{1}{2}$ " standard duty channel nuts, four (4) $\frac{1}{2}$ " Polyurethane bolts and two (2) attachment clips.

All Aickinstrut beam clamps allow easy attachment of threaded rod to "I" beams or other structural assemblies.

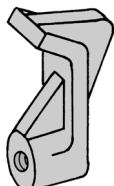
Molded Beam Clamps



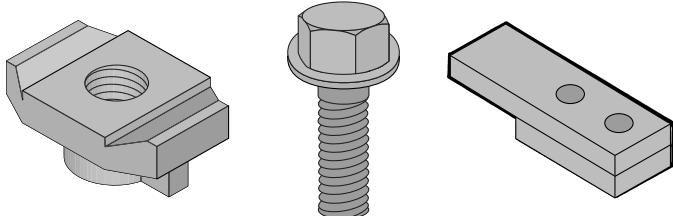
Part Number	Size (in.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
375PU-BC	$\frac{3}{8}$	400	10
500PU-BC	$\frac{1}{2}$	400	10

*Design load values shown represent a 3:1 safety factor.

Beam Clip – 375PU-BCCLP ($\frac{3}{8}$ "')



Fabricated Beam Clamps

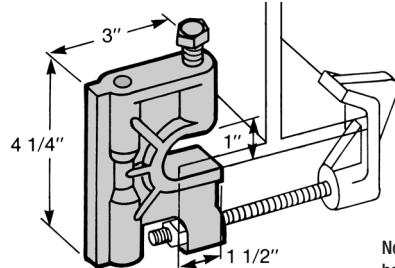


Part Number	Flange Thickness (in.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
20V-2BC-25	$\frac{1}{4}$	600	10
20V-2BC-37	$\frac{3}{8}$	600	10
20V-2BC-50	$\frac{1}{2}$	600	10

*Design load values shown represent a 3:1 safety factor.

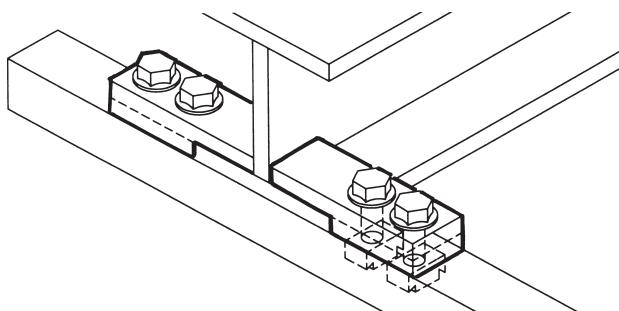
Bolts and channel nuts are $\frac{1}{2}$ " diameter.

Cope-Glas Beam Clamps



Note: Beam clamp clip must be purchased separately.
Illustration purpose only

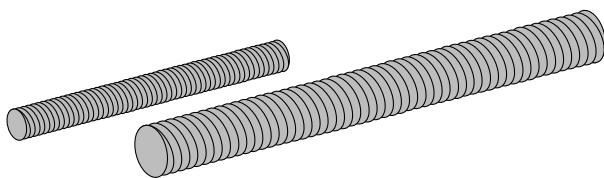
Part Number	Size (in.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
RGBC1	$\frac{3}{8}$	500	10
RGBC2	$\frac{1}{2}$	500	10
RGBC3	$\frac{5}{8}$	500	10



Threaded Rod

Pultruded threaded rods are an excellent choice for hanging and fastening Aickinstrut Channel. These rods can also be used with either the Aickinstrut vinyl ester square nuts, polyurethane hex nuts, hex flange nuts and Aickinstrut channel nuts. All FRP threaded rod is manufactured from pultruded vinyl ester resin and is gray in color.

The standard rod lengths are 4' and 8'.



Part Number	Size (in.)	Weight (lbs.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
200-3827	3/8-16	0.07	415	5
200-3828	1/2-13	0.12	570	10
200-3829	5/8-11	0.18	1,260	40
200-3830	3/4-10	0.28	1,700	50
200-3831	1-8	0.50	3,000	60

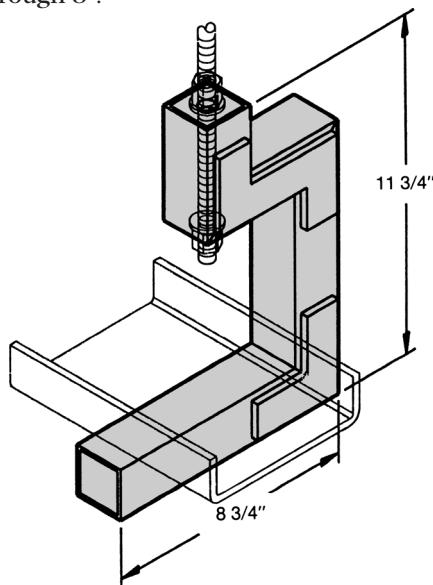
* Thread shear values shown represent a 3:1 safety factor.

* To order eight foot lengths, add suffix "-96" to part number (EX: 200-3827-96)

Channel Hangers

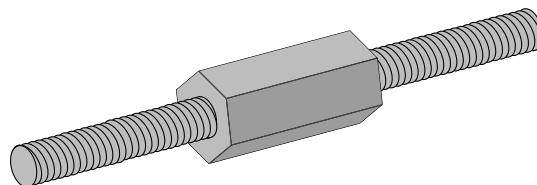
AIC-CH-P (Polyester) AIC-CH-V (Vinyl Ester)

The Aickin-Channel Hanger is designed to support fiberglass structural "C" channel that is being used as a raceway system for cables, tubing or small diameter piping. The Aickin-Channel Hanger is available in either polyester or vinyl ester resin and is simply supported from a 1/2" FRP all-thread rod and beam clamp (not provided). The Channel Hanger will accommodate "C" channel width sizes 2" through 8".



A-Konnect Rod Couplers

A-Konnectors provide an excellent means for extending Aickinstrut FRP all-thread rods beyond their standard lengths. A-Konnectors are manufactured from glass-reinforced polyurethane and are colored gray. A-Konnectors are packaged in bags containing 25 pieces.

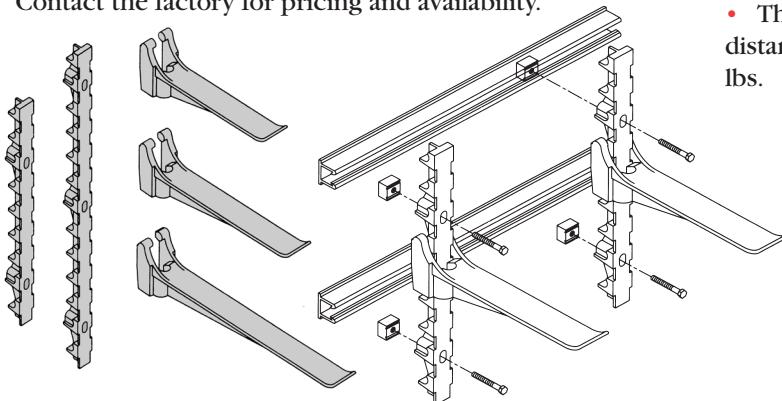


Part Number	Size (in.)	Length (in.)	Thread Shear (lbs.)*
200-3840	3/8-16	2 1/4	800
200-3841	1/2-13	2 1/4	870
200-3842	5/8-11	2 1/4	1,500
200-3843	3/4-10	2 1/4	1,500

* Thread shear values shown represent a 3:1 safety factor.

Power-Rack Stanchions

The Power-Rack Stanchion is the new alternative to traditional iron cable stanchions used for utility and industrial cable supports. Made entirely from glass-reinforced nylon, these stanchions out-perform metallic supports against corrosion. The extended life-span of the Power-Rack Stanchions makes them the logical choice over metallic cable supports. The Power-Rack Stanchion is available in two different lengths and four different arm lengths. The unique interlocking design allows the arm to "lock" into nine different levels on the 14 $\frac{1}{4}$ " stanchions and fourteen on the 17 $\frac{1}{2}$ " stanchion. Glass-reinforced polyurethane stanchions are available as a special order. Contact the factory for pricing and availability.



Dimensions – The stanchion back is designed with $\frac{9}{16}$ " wide x $1\frac{5}{16}$ " long holes to accept fasteners for mounting. There are two mounting holes in the 21 $\frac{3}{8}$ " long stanchion and three mounting holes in the 33 $\frac{5}{16}$ " long stanchion. Thickness at the slotted mounting holes is 1 $\frac{7}{8}$ ". The mounting holes are spaced on 12" centers and require $\frac{1}{2}$ " diameter fasteners.

Installation – The Power-Rack Stanchions can be anchored into existing concrete structures using any good quality

industrial anchoring system. For new concrete structures, the Power-Rack Stanchions can be mounted to Aickinstrut concrete embedment channel and attached with $\frac{1}{2}$ " channel nuts and $\frac{1}{2}" \times 3"$ Fiberfast Bolts.

Fire Retardance – Power-Rack materials meet or exceed the requirements of UL94 HB.

Loading – The recommended allowable loads on Power-Rack Stanchions vary depending upon the position of the arm. Following the guidelines listed below will ensure a safe, reliable installation.

- Total load on any one arm should not exceed 800 lbs.
- The sum of the loads on any arm multiplied by their distances to the wall stanchion should not exceed 1200 in./lbs.

Example – A cable weighing 200 lbs. is positioned on an arm at a distance of 5" from the wall stanchion.

If the total load is less than 800 lbs and the sum of the load multiplied by their distances to the wall stanchion does not exceed 1200 in./lbs., then the system is adequate. In this case,

Total load (200<800 lbs) = OK

Tot. moment (200x5 in. = 1000<1200 in./lbs.) = OK

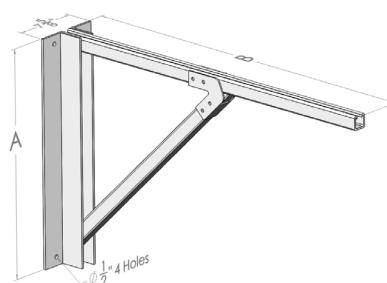
Part No.	Description	Weight (lbs.)	Load (lbs.)*
20N-ARM08	8" Arm	1.00	800
20N-ARM14	14 $\frac{1}{4}$ " Arm	1.16	800
20N-ARM17	17 $\frac{1}{2}$ " Arm	1.45	800
20N-ARM23	23 $\frac{7}{8}$ " Arm	1.86	800
20N-STA21	21 $\frac{3}{8}$ " Stanchion	1.49	N/A
20N-STA33	33 $\frac{5}{16}$ " Stanchion	2.31	N/A

*Design load values shown represent a 3:1 safety factor.

Wall Brackets

Constructed of Aickinstrut fiberglass components, Wall Support Brackets are an alternative tray hanging system. The Aickinstrut product line offers a complete line of fasteners that can be used with the wall brackets in many different tray clamping schemes. Installation guidelines for wall brackets are located in the installation Procedures Section of this catalog. To specify vinyl ester, add suffix "V" to part number.

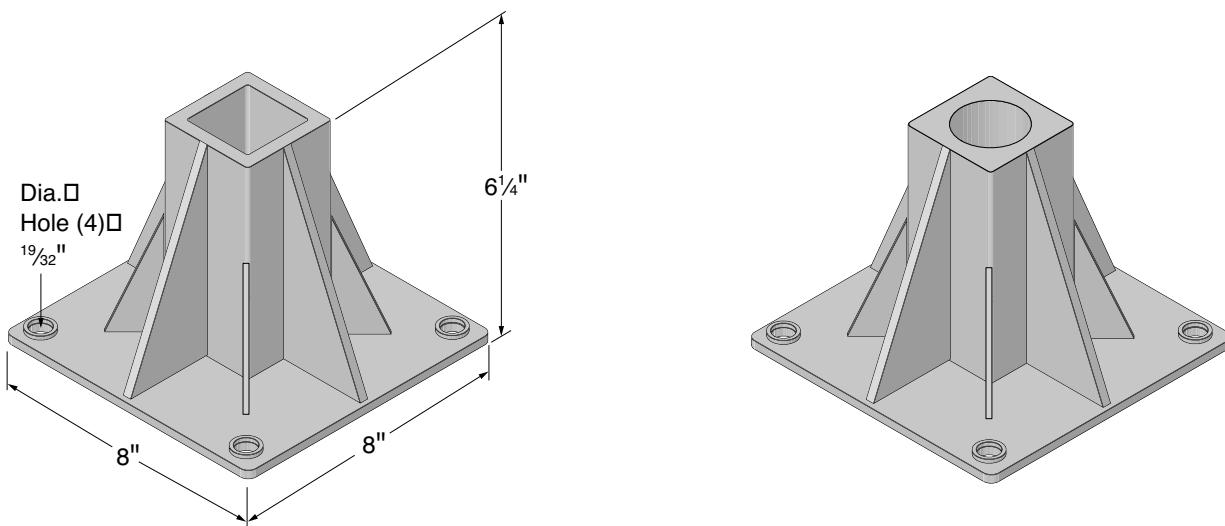
Part No.	Tray Width	Dim. A	Dim.B
CTB06A	06"	11"(279mm)	10"(254mm)
CTB09A	09"	14"(356mm)	12"(305mm)
CTB12A	12"	17"(432mm)	13"(330mm)
CTB18A	18"	23"(584mm)	16"(406mm)
CTB24A	24"	29"(737mm)	19"(483mm)
CTB30A	30"	35"(889mm)	22"(559mm)
CTB36A	36"	41"(1041mm)	25"(635mm)



Heavy Duty Post Base

20PU-5852 (2" Square), 20PU-5852 RD (2" Round)
20PU-5853 HD (1 $\frac{5}{8}$ " Sq.), 20PU-5854 HD (1 $\frac{1}{2}$ " Sq.),
20PU-5853 (1 $\frac{5}{8}$ " Sq.)

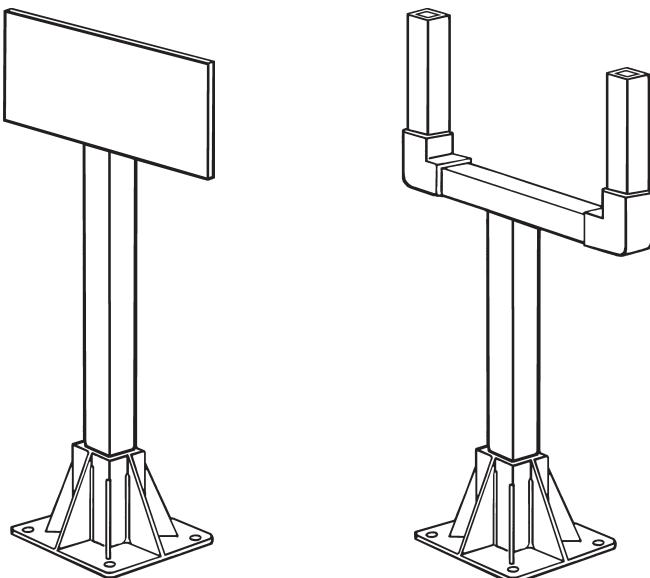
The Aickinstrut heavy duty post base is designed for applications that require a stronger base attachment than the standard Aickinstrut post base. Made from polyurethane, the heavy duty post base is available with four different openings: 1 $\frac{1}{2}$ ", 1 $\frac{5}{8}$ ", 2" square and 2" Schedule 80 round. The heavy duty post base is ideal for mounting fiberglass channel, handrails and instrument stands in corrosive environments. The standard color is gray, but special colors are available upon request.



Instrument & Pipe Stands

Aickin-Instrument and Pipe Stands are available in polyester or vinyl ester resin types and are designed to meet specific customer requirements. These stands are ideal for supporting instruments and enclosures in corrosive environments.

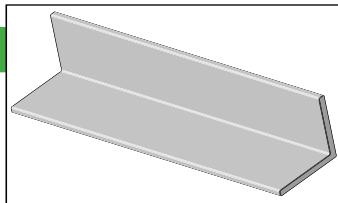
Prefabrication of assemblies is available with customer drawings. Prefabrication saves contractors labor and material costs on the job site.



AICKINSHAPE® STRUCTURAL SHAPES

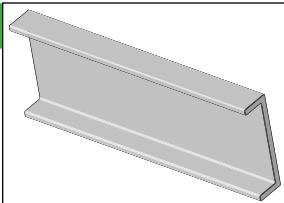
General purpose pultruded structural shapes can be used as a complement to Aickinstrut Channel Framing projects. The shapes are ideal for structural bracing, handrails, handrail kickplates, shims and supporting grating. Structural shapes are available in either polyester or vinyl ester resin and are provided in 20' lengths. Additional structural shapes not listed in this catalog are available. Contact the factory for pricing, availability and minimums. Special sizes and colors can be run based upon quantity.

Equal Leg Angle



Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
1 x 1/8	■	■	■	0.21	18X-1100-20
1 1/4 x 1/8	-	-	-	0.23	18X-1110-20
1 1/2 x 3/16	■	■	■	0.37	18X-1120-20
1 1/2 x 1/4	■	■	■	0.51	18X-1130-20
2 x 1/4	■	■	■	0.68	18X-1200-20
3 x 1/4	■	■	■	1.04	18X-1300-20
3 x 3/8	■	■	■	1.65	18X-1310-20
3 x 1/2	-	-	-	2.15	18X-1320-20
4 x 1/4	■	■	■	1.41	18X-1400-20
4 x 3/8	■	■	■	2.23	18X-1410-20
4 x 1/2	■	■	■	2.92	18X-1420-20
6 x 3/8	■	■	■	3.44	18X-1500-20
6 x 1/2	■	■	■	4.50	18X-1510-20

Channel



Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
2 x 9/16 x 1/8	■	■	-	0.25	18X-2916-20
3 x 7/8 x 1/4	■	■	-	0.77	18X-3078-20
3 x 1 x 1/4	■	■	■	0.87	18X-3114-20
3 x 1 1/2 x 1/4	-	■	■	1.07	18X-3112-20
3 x 1/2 x 1 3/16 x 1/8	-	-	-	0.65	18X-31316-20
4 x 1 1/8 x 1/4	■	■	■	1.11	18X-4118-20
4 x 1 3/8 x 3/16	■	■	■	0.86	18X-4138-20
6 x 1 5/8 x 1/4	■	■	■	1.64	18X-6158-20
6 x 1 11/16 x 3/8	■	■	■	2.52	18X-61116-20
8 x 2 3/16 x 3/8	■	■	■	3.40	18X-82316-20
10 x 2 3/4 x 1/2	■	■	■	5.65	18X-10234-20

Note: MOQ required, put all X in (X)

copecabletray.com

NOTES

ST - Standard Isophthalic Polyester Resin; O = (Olive Green)

FR - Isophthalic Polyester Fire Retardant Resin; P = (Dark Gray)

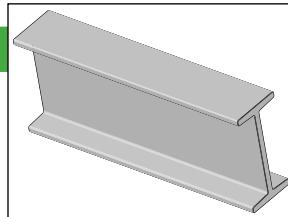
VE - Vinyl Ester Fire Retardant Resin; V = (Beige)

■ Stock Item; ◆ Stocked in Yellow

In part numbers shown below, replace "X" with resin and color code (O, P, V).

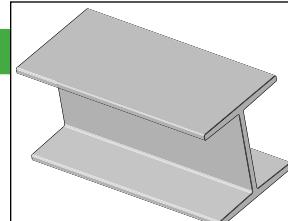
I.E.: 18P-1200-20 Polyester Gray 2" x 1/4" Equal Leg Angle

I-Beam



Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
3 x 2 x 1 1/2 x 1/4	-	-	-	1.18	18X-2100-20
3 x 1 1/2 x 1/4	-	-	-	1.11	18X-2300-20
4 x 2 x 1/4	■	■	■	1.46	18X-2400-20
6 x 3 x 1/4	■	■	■	2.24	18X-2600-20
6 x 3 x 3/8	-	-	-	3.29	18X-2800-20
8 x 4 x 3/8	■	■	■	4.46	18X-2110-20
8 x 4 x 1/2	-	-	-	5.85	18X-2130-20
10 x 5 x 3/8	-	-	-	5.78	18X-2160-20
10 x 5 x 1/2	-	■	■	7.41	18X-2180-20
12 x 6 x 1/2	-	-	-	8.97	18X-2210-25
18 x 3/8 x 4 1/2 x 1/2	-	-	-	8.48	18X-2230-20
24 x 3/8 x 7 1/2 x 3/4	-	-	-	15.20	18X-2240-20

Wide Flange I-Beam

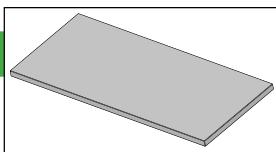


Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
3 x 3 x 1/4	■	■	■	1.69	18X-2200-20
4 x 4 x 1/4	■	■	■	2.10	18X-2500-20
6 x 6 x 1/4	■	■	■	3.41	18X-2700-20
6 x 6 x 3/8	■	■	■	5.05	18X-2900-20
8 x 8 x 3/8	■	■	■	6.49	18X-2120-20
8 x 8 x 1/2	-	■	■	8.70	18X-2140-20
10 x 10 x 3/8	-	-	-	8.74	18X-2170-20
10 x 10 x 1/2	-	■	■	10.90	18X-2190-25
12 x 12 x 1/2	-	■	■	13.20	18X-2220-25

Structural Shapes

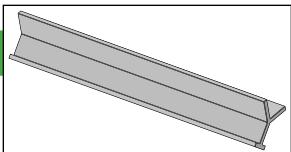
Atkore™
Cope

Flat Sheet



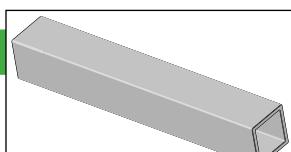
Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
1/8 x 48 x 96	■	■	■	1.14	18X-4100
3/16 x 48 x 96	■	■	■	1.71	18X-4200
1/4 x 48 x 96	■	■	■	2.34	18X-4300
3/8 x 48 x 96	■	■	■	3.54	18X-4400
1/2 x 48 x 96	■	■	■	4.68	18X-4500
5/8 x 48 x 96	-	-	-	5.79	18X-4600
3/4 x 48 x 96	-	-	-	6.94	18X-4700
1 x 48 x 96	-	-	-	9.27	18X-4800

Embedment Angle



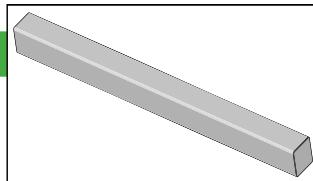
Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
1 x 1 1/2 x 1/4	-	-	■	1.00	18X-111214-20
1 1/2 x 1 1/2 x 1/4	-	-	■	1.10	18X-11211214-20
2 x 1 1/2 x 1/4	-	-	■	1.20	18X-211214-20

Square Tube



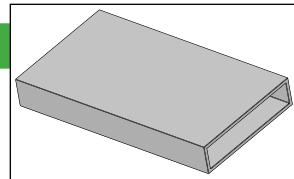
Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
1 x 1/8	■	■	■	0.32	18X-3100-20
1 1/8 x 1/8	-	-	-	0.37	18X-3200-20
1 1/4 x 1/8	-	-	-	0.41	18X-3300-20
1 1/4 x 1/4	-	-	-	0.68	18X-3310-20
1 1/2 x 1/8	■	◆	◆	0.54	18X-3400-20
1 1/2 x 1/4	-	-	■	0.98	18X-3410-20
1 3/4 x 1/8	-	◆	◆	0.63	18X-3500-20
1 3/4 x 1/4	-	◆	◆	1.10	18X-3510-20
2 x 1/8	■	◆	◆	0.69	18X-3600-20
2 x 1/4	■	◆	◆	1.40	18X-3610-20
2 1/4 x 1/8	-	◆	-	0.83	18X-3800-20
2 1/4 x 1/4	-	-	-	1.56	18X-3810-20
2 1/2 x 1/4	-	◆	-	1.79	18X-3900-20
3 x 1/8	-	-	-	1.12	18X-3110-20
3 x 1/4	■	■	■	2.15	18X-3111-20
4 x 1/4	■	■	■	2.93	18X-3120-20
4 x 3/8	■	-	-	4.24	18X-3121-20
6 x 3/8	■	■	■	6.42	18X-3140-20

Square Bar



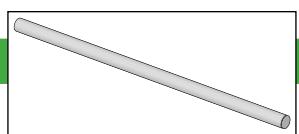
Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
1 x 1	■	-	-	0.87	18X-5100-20
1 1/4 x 1 1/4	-	◆	-	1.31	18X-5125-20
1 1/2 x 1 1/2	-	◆	-	1.98	18X-5150-20
2 x 2	-	-	-	3.12	18X-5200-20

Rectangular Tube



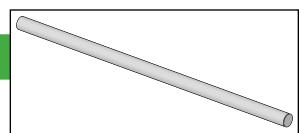
Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
4 x 1 x 1/8	-	-	-	0.85	18X-4118-20
4 x 1/8 x 2 x 1/4	■	■	■	1.52	18X-418214-20
4 3/8 x 1 3/8 x 1/8 x 3/16	-	-	-	1.18	18X-438138-20
4 1/2 x 1 3/4 x 1/8 x 3/16	-	-	-	1.29	18X-412138-20
5 x 2 x 1/8	-	-	-	1.32	18X-5218-20
5 1/8 x 2 1/8 x 3/16	-	-	-	1.32	18X-518218-20
6 1/2 x 1/4 x 2 x 1/2	-	-	-	3.77	18X-612212-20
6 x 4 x 1/4	-	■	-	-	18X-6414-20

Round Rod



Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
1/8	■	—	—	0.01	18X-70018-20
3/16	■	—	—	0.02	18X-700316-20
1/4	■	—	—	0.04	18X-70014-20
5/16	■	—	—	0.07	18X-700516-20
0.35	—	—	—	0.08	18X-70035-20
3/8	■	—	■	0.09	18X-70038-20
1/2	■	—	■	0.17	18X-70012-20
5/8	■	—	■	0.27	18X-70058-20
3/4	■	—	■	0.39	18X-70034-20
13/16	—	—	—	0.46	18X-7001316-20
1	■	—	■	0.66	18X-70100-20
1 1/4	■	—	—	1.08	18X-70114-20
1 1/2	■	—	—	1.56	18X-70112-20
2	—	—	—	2.56	18X-70200-20
2 1/2	—	—	—	4.10	18X-70212-20
3	—	—	—	5.70	18X-70300-20

Round Tube



Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE		
1 x .100	—	—	—	0.22	18X-7100-20
1 x 1/8	■	■	—	0.25	18X-7118-20
1 1/4 x 3/32	—	—	—	0.27	18X-7114332-20
1 1/4 x 1/8	—	—	—	0.32	18X-711418-20
1 1/4 x 1/4	—	—	—	0.60	18X-711414-20
1 1/2 x 1/8	■	■	—	0.45	18X-711218-20
1 1/2 x 1/4	—	■	—	0.79	18X-711214-20
1 3/4 x 1/8	—	—	—	0.47	18X-713418-20
1 3/4 x 1/4	—	—	—	0.94	18X-713414-20
2 x 1/4	■	■	■	1.12	18X-7214-20
3 x .100	—	—	—	0.89	18X-7300-20
3 x 1/4	—	—	—	1.68	18X-7314-20
3 x 1/2	■	—	—	2.98	18X-7312-20
4.89 x 1/8	—	—	—	2.32	18X-7418-20
4.89 x 3/16	—	—	—	2.97	18X-74316-20

Channel Framing	10-15	20P-2822 17 20P-2824 17 20P-2826 17 20P-2828 18 20P-2830 18 20P-2834 18 20P-2840 18 20PP-5853 19 20PP-5854 19 20PP-5855 19 20PP-5903 19 20PP-5904 19 20PP-5905 19 20PU-5853 19 20PU-5854 19 20PU-5855 19 20PU-5903 19 20PU-5904 19 20PU-5905 19 20V-2500 16 20V-2502 16 20V-2504 16 20V-2506 16 20V-2508 16 20V-2510 17 20V-2512 17 20V-2514 17 20V-2516 17 20V-2518 17 20V-2520 17 20V-2522 17 20V-2524 17 20V-2526 17 20V-2528 18 20V-2530 18 20V-2534 18 20V-2540 18 20V-2541 18 20V-2800 16 20V-2802 16 20V-2804 16 20V-2806 16 20V-2808 16 20V-2810L/R 17 20V-2812 17 20V-2814 17 20V-2816L/R 17 20V-2818 17 20V-2820 17 20V-2822 17 20V-2824 17 20V-2826 17 20V-2828 18 20V-2830 18 20V-2834 18 20V-2840 18 20PP-5853 19 20PP-5854 19 20PP-5855 19 20PP-5903 19 20PP-5904 19 20PP-5905 19 20PU-5853 19 20PU-5854 19 20PU-5855 19 20PU-5903 19 20PU-5904 19 20PU-5905 19 20V-2500 16 20V-2502 16 20V-2504 16 20V-2506 16 20V-2508 16 20V-2510 17 20V-2512 17 20V-2514 17 20V-2516 17 20V-2518 17 20V-2520 17 20V-2522 17 20V-2524 17 20V-2526 17 20V-2528 18 20V-2530 18 20V-2534 18 20V-2540 18 20V-2541 18 20V-2800 16 20V-2802 16 20V-2804 16 20V-2806 16 20V-2808 16 20V-2810L/R 17 20V-2812 17 20V-2814 17 20V-2816L/R 17 20V-2818 17 20V-2820 17 20V-2822 17 20V-2824 17 20V-2826 17 20V-2828 18 20V-2830 18 20V-2834 18 20V-2840 18 20V-2542 18 20V-2543 18 20V-2544 18 20V-2545 18 20V-2546 18 20V-2547 18 20V-2548 18 20V-2549 18 20V-2550 18 20V-2551 18 20V-2552 18 20V-2553 18 20V-2554 18 20V-2555 18 20V-2556 18 20V-2557 18 20V-2558 18 20V-2559 18 20V-2560 18 20V-2561 18 20V-2562 18 20V-2563 18 20V-2564 18 20V-2565 18 20V-2566 18 20V-2567 18 20V-2568 18 20V-2569 18 20V-2570 18 20V-2571 18 20V-2572 18 20V-2573 18 20V-2574 18 20V-2575 18 20V-2576 18 20V-2577 18 20V-2578 18 20V-2579 18 20V-2580 18 20V-2581 18 20V-2582 18 20V-2583 18 20V-2584 18 20V-2585 18 20V-2586 18 20V-2587 18 20V-2588 18 20V-2589 18 20V-2590 18 20V-2591 18 20V-2592 18 20V-2593 18 20V-2594 18 20V-2595 18 20V-2596 18 20V-2597 18 20V-2598 18 20V-2599 18 20V-2600 18 20V-2601 18 20V-2602 18 20V-2603 18 20V-2604 18 20V-2605 18 20V-2606 18 20V-2607 18 20V-2608 18 20V-2609 18 20V-2610 18 20V-2611 18 20V-2611-SP 18 20V-2613 18 20V-2616 16 20V-2636 19 20V-2636A 19 20V-2636B 19 20V-2936 19	50PU-500SP 23 200-3100 thru 200-3140 20 AIC-EC 23 PCR-050 thru PCR-800 21 PS050 thru PS1800 21 UB-050 thru UB-600 23	20N-ARM14 30 20N-ARM17 30 20N-ARM23 30 20N-STA21 30 20N-STA33 30 AIC-CH-P (Polyester) 28 AIC-CH-V (Vinyl Ester) 28 Wall Brackets 29
Fittings & Accessories	16-19	Fasteners	23-25	
20E-5000 23 20P-2500 16 20P-2502 16 20P-2504 16 20P-2506 16 20P-2508 16 20P-2510 17 20P-2512 17 20P-2514 17 20P-2516 17 20P-2518 17 20P-2520 17 20P-2522 17 20P-2524 17 20P-2526 17 20P-2528 18 20P-2530 18 20P-2534 18 20P-2540 18 20P-2541 18 20V-2800 16 20V-2802 16 20V-2804 16 20V-2806 16 20V-2808 16 20V-2810L/R 17 20V-2812 17 20V-2814 17 20V-2816L/R 17 20V-2818 17 20V-2820 17 20V-2822 17 20V-2824 17 20V-2826 17 20V-2828 18 20V-2830 18 20V-2834 18 20V-2840 18 20V-2542 18 20V-2543 18 20V-2544 18 20V-2545 18 20V-2546 18 20V-2547 18 20V-2548 18 20V-2549 18 20V-2550 18 20V-2551 18 20V-2552 18 20V-2553 18 20V-2554 18 20V-2555 18 20V-2556 18 20V-2557 18 20V-2558 18 20V-2559 18 20V-2560 18 20V-2561 18 20V-2562 18 20V-2563 18 20V-2564 18 20V-2565 18 20V-2566 18 20V-2567 18 20V-2568 18 20V-2569 18 20V-2570 18 20V-2571 18 20V-2572 18 20V-2573 18 20V-2574 18 20V-2575 18 20V-2576 18 20V-2577 18 20V-2578 18 20V-2579 18 20V-2580 18 20V-2581 18 20V-2582 18 20V-2583 18 20V-2584 18 20V-2585 18 20V-2586 18 20V-2587 18 20V-2588 18 20V-2589 18 20V-2590 18 20V-2591 18 20V-2592 18 20V-2593 18 20V-2594 18 20V-2595 18 20V-2596 18 20V-2597 18 20V-2598 18 20V-2599 18 20V-2600 18 20V-2601 18 20V-2602 18 20V-2603 18 20V-2604 18 20V-2605 18 20V-2606 18 20V-2607 18 20V-2608 18 20V-2609 18 20V-2610 18 20V-2611 18 20V-2611-SP 18 20V-2613 18 20V-2616 16 20V-2636 19 20V-2636A 19 20V-2636B 19 20V-2936 19	10PU-CN 25 10PU-CNMHD 25 10PU-CNS 25 12PU-CN 25 12PU-CNMHD 25 18PU-CNMHD 25 200-4226 thru 200-4343 25 20PU-CNMHD 25 250E-999 24 250PU Series Bolts 23 250PU-000 24 250PU-CN 25 312PU-CN 25 375E-999 24 375PU Series Bolts 23 375PU-000 24 375V Series Bolts 23 375V-000 24 500E-999 24 500PU Series Bolts 23 500PU-000 24 500PU-CN 25 500PU-CNHD 25 500PU-FN-000 24 625E-999 24 625PU Series Bolts 23 625PU-000 24 625PU-CNHD 25 625PU-FN-000 24 750E-999 24 750PU-000 24 750PU-CNHD 25 750PU-FN-000 24 750V-000 24 1000E-999 24 1000PU-000 24 1000PU-FN-000 24 1000V-000 24 WR375 thru WR750 24 WR375SQ thru WR750SQ 24	20N-ARM14 30 20N-ARM17 30 20N-ARM23 30 20N-STA21 30 20N-STA33 30 AIC-CH-P (Polyester) 28 AIC-CH-V (Vinyl Ester) 28 Wall Brackets 29		
Instrument & Pipe Stands	30	Structural Shapes	31-33	
20PU-5852 30 20PU-5852 RD 30 20PU-5853 HD 30 20PU-5854 HD 30	Channel 31 Embedment Angle 32 Equal Leg Angle 31 Flat Sheet 32 Handrail Components 33 I-Beam 31 Rectangular Tube 32 Round Rod 33 Round Tube 33 Square Bar 32 Square Tube 32 Wide Flange I-Beam 31			
Pipe Hangers	26			
CVHPU-100 thru CVHPU-600 26 100-1500 thru 100-1514 26				
Pipe Hanging Accessories	27-28			
200-3827 thru 200-3831 28 200-3840 thru 200-3843 28 20V-2BC-25 27 20V-2BC-37 27 20V-2BC-50 27 375PU-BC 27 500PU-BC 27 RGBC-1 27 RGBC-2 27 RGBC-3 27				
Pipe Supports	28-30			
20N-ARM08 30				



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Unistrut Construction ▾ Cope ▾ US Tray ▾ Calbrite ▾ Calbond ▾ Kaf-Tech
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Power-Strut ▾ Calconduit ▾ Razor Ribbon ▾ Calpipe Security
FRE Composites ▾ Vergokan ▾ Flexicon ▾ Marco

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