



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.

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Technical Information



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 ½ 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)
Р	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	Low	High
Code	Temperature	Temperature
Е	-25°F	130°F
Р	-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.

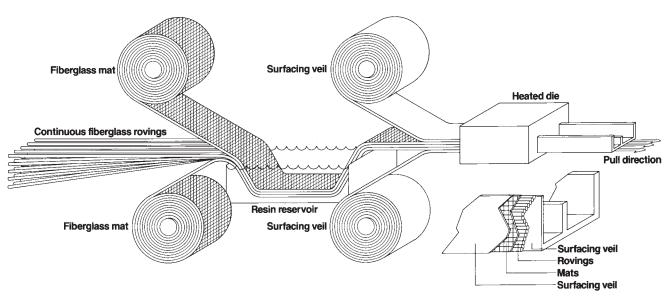
Consult the corrosion resistance guide on page 8 and 9 to determine the correct resin system for your application.

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				Typical Value	Typical Value
Typical Properties	Test Method	Direction	Unit	Polyester	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 x 10 ⁶	3.0×10^6
	ASTM D-638	Transverse	PSI	0.8 x10 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 x 10 ⁶	2.5 x 10 ⁶
	ASTM D-695	Transverse	PSI	1.0 x 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 x 10 ⁶	2.0 x 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	ftlb./in.	25	30
		Transverse	ftlb./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

Technical Information





Glass Roving and Mat Reinforced Polyester and Vinyl Ester Fiberglass Components

				Typical Value	Typical Value
Typical Properties	Test Method	Direction	Unit	Polyester	Vinyl Ester
Other					
Thermal Coefficient of Expansion	ASTM D-696	Longitudinal	in./in./°F	5 x 10 ⁻⁶	5 x 10 ⁻⁶
Thermal Conductivity		Longitudinal	BTU/Hr. sq.	4.0	4.0
			ft./in./°F		
Water Absorption 24 hours	ASTM 0-570	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	³ /8 -16 UNC	¹ /2-13 UNC	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 rodsingle 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')	2.0 x 10 ⁶	2.0×10^6	2.0 x 10 ⁶
Torque strength using fiberglass nut lubricated with SAE IOW30 motor oil (ft./lbs.)	8	15	33
Dielectric strength ASTM-D-149 (kv/in.)	40	40	40
Water absorption 24 hour immersionthreaded ASTM-D-570 (%)	1	1	1
Coefficient of thermal expansionlongitudinal (in./in./°F)	5 x 10 ⁶	5 x 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:

4.3 All 1%" x 1%" channel profiles shall have a minimum pull out resistance of 1,000 pounds when load is applied over a 3%" 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 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.

Technical Information



Chemical Compatibility Table

Chomical Companionty Table												
Chemical	Series E Series P Series V (Rigid PVC) (Poly/Glass) (Vinyl/Glas 70°-160°F 70°-160°F 70°-160°							es K DF) 60°F	(Polyurethane)		Series N (Nylon) 70°-160°l	
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		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	_	_	_
Ammenium Sulfide, saturated	R	R	NR	NR	R	120°	R	R	R	_		_
Aqua Regia, fumes	NR	NR	NR	NR	R	150°	R	R	NR	_	_	_
Benzene NR	NR	NR	NR	NR	NR	NR	R	R	R	R	R	
Benzoic Acid	R	R	R	R	R	R	R	R	R			
Bromine, wet gas	R	NR	NR	NR	R	100°	R	R	_	_	_	_
Butylene Glycol, Up to 100%	R	R	R	R	R	R	R	R	R	_	R	R
Butyric Acid, Up to 50%	NR	NR	R	R	R	R	R	R	R	_		
Calcium Hydroxide	R	R	R	NR	R	R	R	R	R	_	_	_
Calcium Hypochlorite	R	R	R	NR	R	R	R	R	R	_	NR	NR
Chlorine, Dry Gas	NR	NR	NR	NR	R	R	R	R	- 11		IVII	IVII
Chlorine, Wet Gas	NR	NR	NR	NR	n R	n R	n R	n R	_	_	_	_
Chlorine, Liquid	NR	NR	NR	NR	n NR	n NR	n R	n R	_	_	_	_
Chlorine, Water	NR	NR	R	R		R	R	R	R		NR	NR
Chromic Acid, Up to 5%	NK R	NK R	n NR	n NR	R R	r R	R R	r R	n	_	INK R	NK R
Copper Chloride	R	R	R	R	R	R	R	R	R	_	-	n _
Copper Cyanide Copper Fluoride	R R	R R	R R	NR NR	R R	R R	R R	R R	n R	_	_	_
Copper Nitrate	n R	n R	n R	in R	n R	n R	n R	n R	n R	_	_	_
Copper Sulfate Dechlorinated Brine Storage	R R	R R	R	R	R	R R	R	R R	R R	_	_	_
Esters, Fatty Acid	n NR	n NR	– R	– R	R R	n R	R R	n R	n R	_	_	_
												_
Ferric Chloride Ferrous Chloride	R	R R	R	R R	R	R R	R	R	R R	_	_	_
Fluoboric Acid	R R	n R	R R	n 120°	R R	n R	R R	R R	n	_	_	_
											ND.	ND.
Fluosilicic Acid, Up to 10%	NR NR	NR	NR NR	NR NR	R	R 100°	R	R	_	_	NR	NR
Fluosilicic Acid, Up to 32% Formic Acid, Up to 10%	ININ R	NR R	NR	NR	R R	R	R R	R R	– R	_	- NR	– NR
										_	IVII	INIT
Formic Acid, Up to 50%	R	R	NR	NR	R	100°	R	R	R	-	_	-
Gasoline, Aviation Green Liquor, Pulp Mill	R	NR P	R	NR -	R	R R	R	R	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 150°	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		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;

 $^{{\}bf ``R"}\ indicates ``Recommended";$

[&]quot;-" indicates no information available



Selled Part Part	Chemical Compatibility Table												
Lead Nitrate R <t< th=""><th>Chemical</th><th>(Rigio</th><th>I PVC)</th><th>(Poly/</th><th colspan="2">(Poly/Glass)</th><th colspan="2">(Vinyl/Glass)</th><th>DF)</th><th colspan="2">(Polyurethane)</th><th>(Nylo</th><th>on)</th></t<>	Chemical	(Rigio	I PVC)	(Poly/	(Poly/Glass)		(Vinyl/Glass)		DF)	(Polyurethane)		(Nylo	on)
Magnesium Hydroxide R R NR NR R	Lactic Acid	R	R	R	NR	R	R	R	R	R	_	_	_
Nickel Sulfate, Llow pH	Lead Nitrate	R	R	_	_	R	R	R	R	R	_	-	_
Nickel Sulfate, High pH	Magnesium Hydroxide	R	R	NR	NR	R	R	R	R	R	-	R	R
Nitric Acid, Up to 5% R R R R R R R R R R R R R R R R R R	Nickel Sulfate, Low pH	R	R	NR	NR	R	R	R	R	R	_	_	_
Nitric Acid, Up to 35%	Nickel Sulfate, High pH	R	R	NR	NR	R	R	R	R	R	_	_	_
Nitric Acid, Vapor R R R NR NR NR R R R R R R R R R R R	Nitric Acid, Up to 5%	R	R	NR	NR	R	150°	R	R	R	-	-	-
Perchloric Acid, Up to 10% NR NR NR NR NR NR R 150° R R R NR R R R	Nitric Acid, Up to 35%	R	R	NR	NR	R	150°	R	R	R	_	_	_
Pickling Liquids, 3-5% H2S04 R	Nitric Acid, Vapor	R	R	NR	NR	R	R	R	R	_	_	_	_
Phosphoric Acid R R R NR NR NR R R R R R R R R R R R	Perchloric Acid, Up to 10%	NR	NR	NR	NR	R	150°	R	R	_	_	NR	NR
Phosphoric Acid R	Pickling Liquids, 3-5% H2S04	R	R	R	R	R	R	R	R	R	_	_	_
Phosphoric Acid Vapor or Condensate R R NR NR R	• •	R	R	NR	NR	R	R	R	R	R	_	NR	NR
Potassium Chloride	Phosphoric Acid, Super or Poly (115%, P20%)	R	R	NR	NR	R	R	R	R	_	_	_	_
Potassium Nitrate	Phosphoric Acid Vapor or Condensate	R	R	NR	NR	R	R	R	R	_	_	_	_
Potassium Persulfate R R NR NR R	Potassium Chloride	R	R	R	R	R	R	R	R	R	_	_	_
Silver Cyanide, Up to 5% R <td>Potassium Nitrate</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>_</td> <td>-</td> <td>_</td>	Potassium Nitrate	R	R	R	R	R	R	R	R	R	_	-	_
Sodium Hydroxide, Up to 25% R R R R NR NR R 150° R R R - <	Potassium Persulfate	R	R	NR	NR	R	R	R	R	R	_	_	_
Sodium Hydroxide, up to 50%	Silver Cyanide, Up to 5%	R	R	NR	NR	R	R	R	R	R	_	_	_
Sodium Hypochlorite, Up to 15% R <th< td=""><td>Sodium Hydroxide, Up to 25%</td><td>R</td><td>R</td><td>NR</td><td>NR</td><td>R</td><td>150°</td><td>R</td><td>R</td><td>R</td><td>_</td><td>-</td><td>_</td></th<>	Sodium Hydroxide, Up to 25%	R	R	NR	NR	R	150°	R	R	R	_	-	_
Sodium Nitrate R	Sodium Hydroxide, up to 50%	R	R	NR	NR	R	180°	R	R	_	_	R	R
Sodium Sulfate R	Sodium Hypochlorite, Up to 15%	R	R	NR	NR	R	150°	R	R	R	_	NR	NR
Sodium Sulfide R	Sodium Nitrate	R	R	R	R	R	R	R	R	R	_	-	_
Sulfuric Acid, Up to 25% R <td>Sodium Sulfate</td> <td>R</td> <td>R</td> <td>R</td> <td>NR</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>_</td> <td>_</td> <td>_</td>	Sodium Sulfate	R	R	R	NR	R	R	R	R	R	_	_	_
Sulfuric Acid, Up to 50% R R NR NR R </td <td>Sodium Sulfide</td> <td>R</td> <td>R</td> <td>NR</td> <td>NR</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>_</td> <td>_</td> <td>_</td>	Sodium Sulfide	R	R	NR	NR	R	R	R	R	R	_	_	_
Sulfuric Acid, Up to 70% R <td>Sulfuric Acid, Up to 25%</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>_</td> <td>NR</td> <td>NR</td>	Sulfuric Acid, Up to 25%	R	R	R	R	R	R	R	R	R	_	NR	NR
Sulfuric Acid, Up to 75% NR NR NR NR NR NR R 120° R R - - NR NR NR Sulfuric Acid, Up to 80% NR NR<	Sulfuric Acid, Up to 50%	R	R	NR	NR	R	R	R	R	R	_	_	_
Sulfuric Acid, Up to 80% NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR N	Sulfuric Acid, Up to 70%	R	R	NR	NR	R	R	R	R	R	_	NR	NR
Sulfuric Acid, Vapor R	Sulfuric Acid, Up to 75%	NR	NR	NR	NR	R	120°	R	R	_	_	NR	NR
Sulfuric Acid, Vapor R		NR	NR	NR	NR	NR	NR	NR	NR	_	_	NR	NR
Trichlorethylene, Fumes NR NR NR NR R<	, ·									_	_		
Trisodium Phosphate R	, ·	NR	NR	NR	NR	R	120°	R	R	NR	_	_	_
Urea R	Trisodium Phosphate	R	R	R	NR	R	R	R	R	R	_	_	_
Vegetable Oils R	•										_	R	R
Vinegar R R R R R R R R R R	Vegetable Oils					R					_		
		R	R	R	R	R	R	R	R	R	R	R	
White Liquor, Pulp Mill RR RR RR	White Liguor, 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;

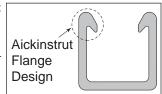
"R" indicates "Recommended";

"-" 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 and internal arrangement of permanently bonded continuous glass fibers, it possesses great strength.

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

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

PVC Materials

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

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

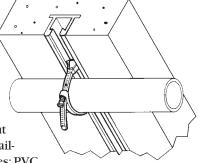
CHANNEL AVAILABILITY CHART

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

Channel Profile	Polyester (P) Vinyl Ester (V)	PVC (E)
Series 1000, 1000SST, 1200		
1200SST,2000,2200,2300	Х	Χ
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

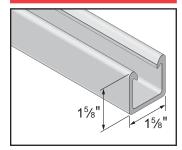
Aickinstrut SST Fiberglass Channel incorporates a standard channel profile that will accommodate metallic pipe straps and clamps. SST channel is available in polyester or vinyl ester resin. All standard styles (solid, slotted, concrete insert and back-to-back) are also available. Please contact the factory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

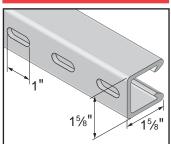


HEAVY DUTY CHANNEL - AICKINSTRUT PROFILE

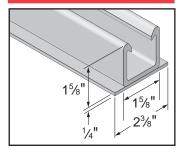
Standard 20P-2000. 20V-2000. 20E-2000



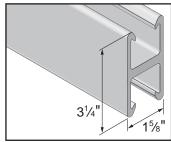
Slotted (1" x 3/8" Holes) 20P-2200, 20V-2200, 20E-2200



With Concrete Inserts 20P-2300, 20V-2300, 20E-2300

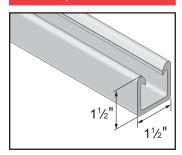


Back-to-Back 20P-2100, 20V-2100

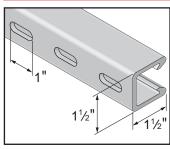


MEDIUM DUTY CHANNEL - AICKINSTRUT PROFILE

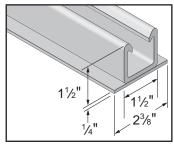
Standard 20P-1500, 20V-1500



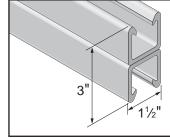
Slotted (1" x 3/8" Holes)
20P-1700, 20V-1700



With Concrete Inserts 20P-1800, 20V-1800

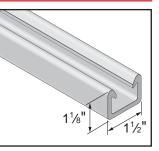


Back-to-Back 20P-1600, 20V-1600

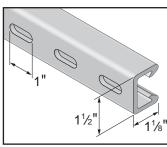


LIGHT DUTY CHANNEL - AICKINSTRUT PROFILE

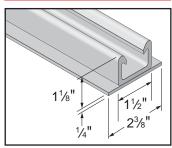
Standard 20P-1000, 20V-1000, 20E-1000



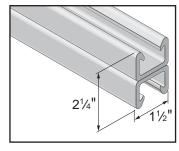
Slotted (1" x 3/8" Holes) 20P-1200, 20V-1200, 20E-1200



With Concrete Inserts 20P-1300, 20V-1300

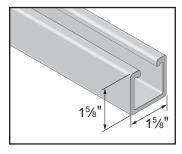


Back-to-Back 20P-1100, 20V-1100

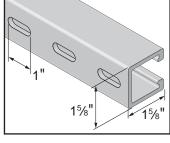


HEAVY DUTY CHANNEL - STANDARD PROFILE

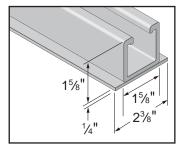
Standard 20P-2000-SST, 20V-2000-SST



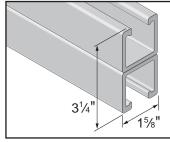
Slotted (1" x 3/8" Holes) 20P-2200-SST, 20V-2200-SST



With Concrete Inserts 20P-2300-SST, 20V-2300-SST



Back-to-Back 20P-2100-SST, 20V-2100-SST



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



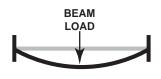
CHANNEL LOADING

Channel loading generally occurs in one of the following modes:

- beam
- column
- flange

BEAM LOADING

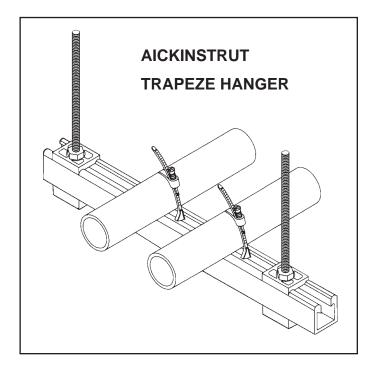
Beam loading data reflects the maximum uniform load allowed when using the channel horizontally as in a trapeze hanger. Refer to the table on Page 13 for simple



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:

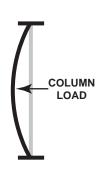
PVC Beam Load = $\frac{\text{(Polyester/Vinyl Ester Beam Load)}}{4}$

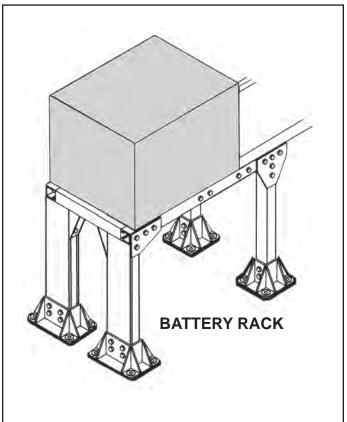
NOTE: PVC is not recommended for lengths over 24".

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.

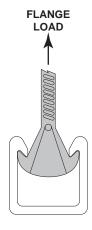






FLANGE LOADING

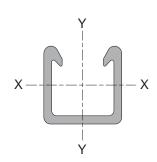
Pull-out strength is the channel's resistance to a clamp or fastener inserted under the flange and put under tension. For additional information concerning specific channels, materials and their pull-out strengths, refer to the channel flange pull-out chart on the right.



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





						X - X	X Axis		Y - Y Axis.		
Section	Height	Width	Weight	Area	I	R	C¹	C ²	I	R	C
Number	(in.)	(in.)	(lbs./ft.)	(in.²)	(in.4)	(in.)	(in.)	(in.)	(in.4)	(in.)	(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	31/2	1 5⁄⁄8	1.64	2.12	1.77	0.91	1.63	1.63	0.85	0.63	0.82
1500	1½	11/2	0.55	0.71	0.19	0.52	0.62	0.88	0.25	0.59	0.75
1600	3	11/2	1.10	1.42	1.02	0.85	1.50	1.50	0.49	0.59	0.75
1000	11//8	11/2	0.47	0.61	0.10	0.40	0.51	0.62	0.22	0.60	0.75
1100	21/2	1 ½	0.94	1.22	0.42	0.59	1.13	1.13	0.44	0.60	0.75

Channel Loading



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 SUPPO	LOAD FACTOR	DEFLECTION FACTOR	
1. Simple Beam, Uniform Load	SPAN -	1.00	1.00
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	SPAN -	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	SPAN - 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. Load = 2,224 lbs. $\times 0.12 = 267$ lbs. 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						
			rm Beam Load actor - 3:1)		n Load at 1/360 Span	Maximum Column
Span	Part Number	Load (lbs.)	Deflection (in.)	Load (lbs.)	Deflection (in.)	Load (lbs.)
	20P/V-2100	5,559	0.028	5,559	0.033	9,454
40"	20P/V-1600	4,836	0.043	3,778	0.033	7,007
12"	20P/V-1100	3,804	0.082	1,556	0.033	5,961
Span	20P/V-2000	3,561	0.102	1,159	0.033	5,160
Opan	20P/V-1500	1,950	0.093	700	0.033	3,439
	20P/V-1000	1,629	0.151	359	0.033	2,759
	20P/V-2100	3,706	0.064	2,914	0.050	8,866
4011	20P/V-1600	3,224	0.096	1,697	0.050	6,501
18"	20P/V-1100	2,536	0.183	691	0.050	5,509
Span	20P/V-2000	2,374	0.230	515	0.050	4,704
Opan	20P/V-1500	1,300	0.209	311	0.050	3,136
	20P/V-1000	1,086	0.340	160	0.050	2,351
	20P/V-2100	2,780	0.113	1,639	0.067	8,181
24"	20P/V-1600	2,418	0.171	944	0.067	5,909
24	20P/V-1100	1,902	0.326	389	0.067	4,979
Span	20P/V-2000	1,781	0.410	290	0.067	4,168
- 1	20P/V-1500	975	0.371	175	0.067	2,778
	20P/V-1000	815	0.605	90	0.067	1,862
	20P/V-2100	2,224	0.177	1,049	0.083	7,405
30"	20P/V-1600	1,934	0.267	604	0.083	5,236
30	20P/V-1100	1,522 1,424	0.509	249 185	0.083 0.083	4,375
Span	20P/V-2000 20P/V-1500	780	0.640 0.580	112	0.083	3,553
•	20P/V-1000 20P/V-1000	652	0.945	57	0.083	2,369 1,298
	20P/V-2100	1,853	0.254	730	0.100	6,451
	20P/V-1600	1,612	0.384	420	0.100	4,482
36"	20P/V-1100	1,268	0.734	173	0.100	3,698
_	20P/V-2000	1,187	0.922	129	0.100	2,859
Span	20P/V-1500	650	0.836	78	0.100	1,906
	20P/V-1000	543	1.360	40	0.100	901
	20P/V-2100	1,390	0.452	410	0.133	4,534
	20P/V-1600	1,209	0.683	236	0.133	2,809
48"	20P/V-1100	951	1.304	97	0.133	2,254
	20P/V-2000	890	1.638	72	0.133	1,636
Span	20P/V-1500	488	1.486	44	0.133	1,091
	20P/V-1000	407	2.418	22	0.133	507
	20P/V-2100	1,112	0.707	262	0.167	2,902
00"	20P/V-1600	967	1.067	151	0.167	1,798
60"	20P/V-1100	761	2.038	62	0.167	1,442
Span	20P/V-2000	712	2.560	46	0.167	1,047
Spail	20P/V-1500	390	2.321	28	0.167	698
	20P/V-1000	326	3.779	14	0.167	324
	20P/V-2100	927	1.018	182	0.200	2,015
70"	20P/V-1600	806	1.536	105	0.200	1,248
72 "	20P/V-1100	634	2.935	43	0.200	1,001
Span	20P/V-2000	594	3.686	32	0.200	727
Opan	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 3/8" flat material. The 2800 Series Fittings are manufactured from 3/8" flat material and feature grooves which stabilize the fittings when mounted to the open side of the channel. All channel fittings are provided with 13/32" holes which accommodate 3/8" hardware, however several of the new molded fittings come with 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

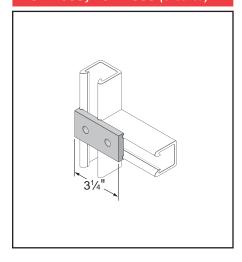
2500 Series - Flat

2800 Series - Grooved

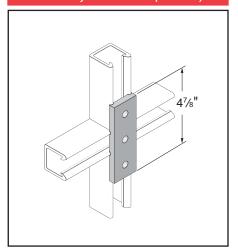
NOTE

Illustrations depict grooved channel fittings.

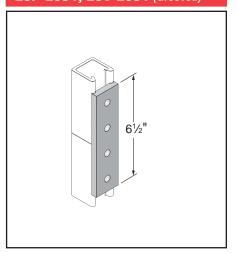
20P-2500, 20V-2500 (Flat) 20P-2800, 20V-2800 (Grooved)



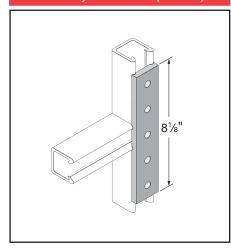
20P-2502, 20V-2502 (Flat) 20P-2802, 20V-2802 (Grooved)



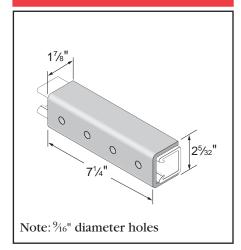
20P-2504, 20V-2504 (Flat) 20P-2804, 20V-2804 (Grooved)



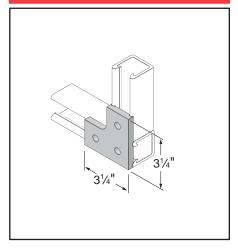
20P-2506, 20V-2506 (Flat) **20P-2806, 20V-2806** (Grooved)



50PU-2616

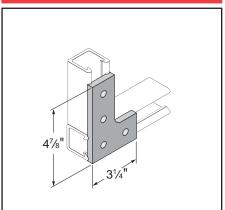


20P-2508, 20V-2508 (Flat) 20P-2808, 20V-2808 (Grooved)

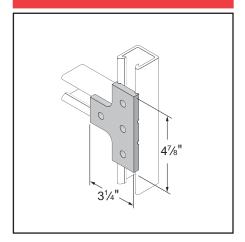




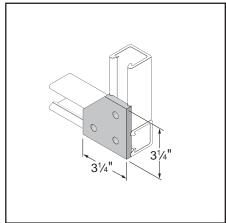
20P-2510, 20V-2510 (Flat) 20P-2810R, 20V-2810R (Grooved) 20P-2810L, 20V-2810L (Grooved)



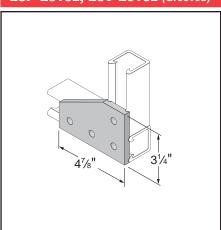
20P-2512, 20V-2512 (Flat) 20P-2812, 20V-2812 (Grooved)



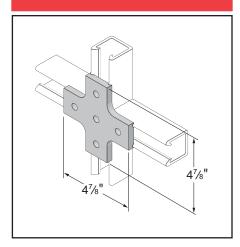
20P-2514, **20V-2514** (*Flat*) **20P-2814**, **20V-2814** (*Grooved*)



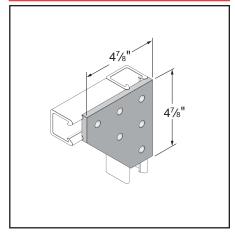
20P-2516, 20V-2516 (Flat) 20P-2816R, 20V-2816R (Grooved) 20P-2816L, 20V-2816L (Grooved)



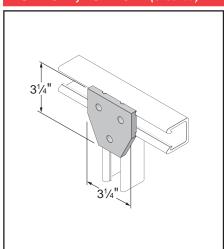
20P-2518, **20V-2518** (Flat) **20P-2818**, **20V-2818** (Grooved)



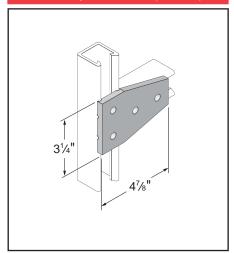
20P-2520, 20V-2520 (Flat) 20P-2820, 20V-2820 (Grooved)



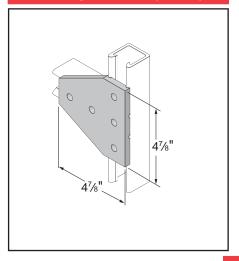
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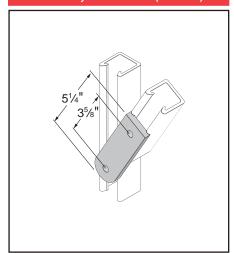


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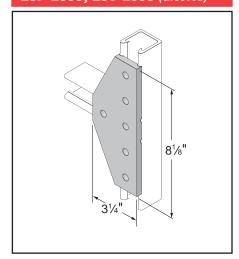




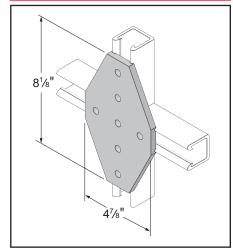
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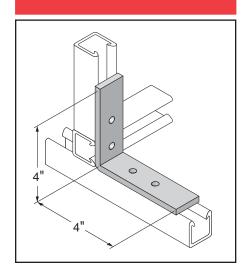
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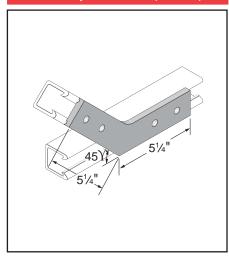
20P-2534, 20V-2534 (Flat) 20P-2834, 20V-2834 (Grooved)



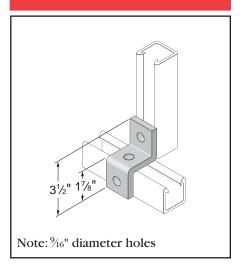
20P-2541, 20V-2541 (Flat)



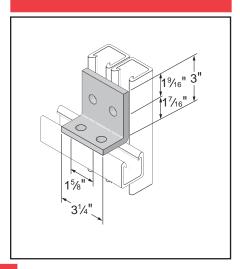
20P-2540, 20V-2540 (Flat) 20P-2840, 20V-2840 (Grooved)



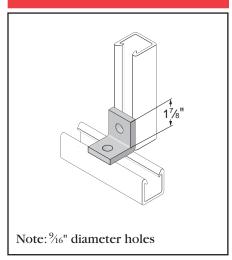
50PU-2611 (Flat)



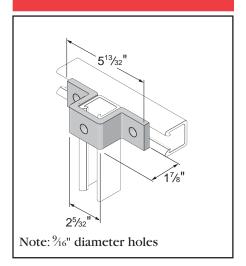
20P-2542, 20V-2542 (Flat)



50PU-2611-SP

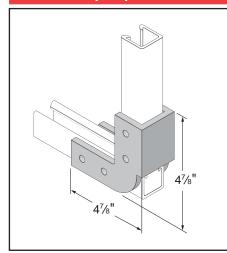


50PU-2613 (Flat)

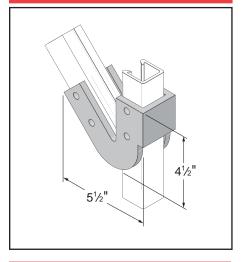




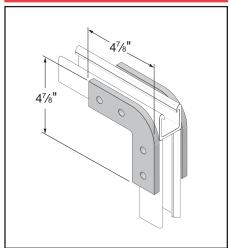
50PU-1508 (1½") 50PU-2008 (1½")



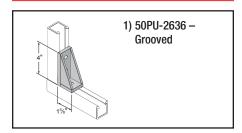
50PU-2045 (15/8")



50PU-2090 (1⁵/₈")



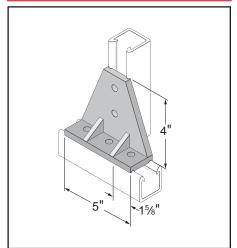
50PU-26361



50PU-2636A²



50PU-2538 (Flat)



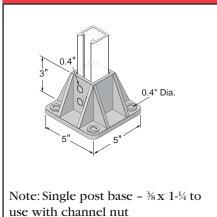
50PU-2636B³



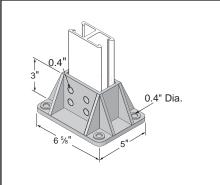
50PU-29364



20PU-5853 (1⁵/₈"), 20PU-5854 (1¹/₂"), 20PU-5855 (1¹/₈"), 20PP-5853 (1⁵/₈"), 20PP-5854 (1¹/₂"), 20PP-5855 (1¹/₈")



20PU-5903 (3¹/₄"), 20PU-5904 (3"), 20PU-5905 (2¹/₄"), 20PP-5903 (3¹/₄"), 20PP-5904 (3"), 20PP-5905 (2¹/₄")



Note: Double post base- $\frac{3}{8}$ 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.

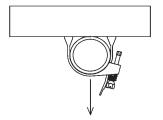


AICKINCLAMPS DESIGN LOAD INFORMATION

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.

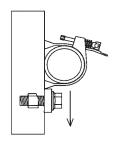
Type 1 Design Load

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

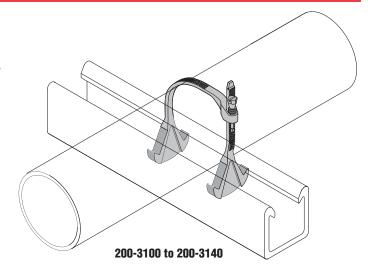
The design loading shown can be achieved with the addition of a vertical stop lock assembly (Part #200-4219) installed directly beneath the pipe clamp. The adjacent illustration shows how the vertical stop lock assembly provides additional support for pipe and how it can be used to achieve full Type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



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

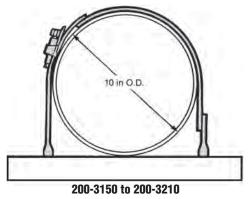
Adjustable Pipe Clamps

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 $6^{1}/2^{11} - 20^{11}$ 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° E. For operating temperatures of 160° 230°E, 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	O.D. Pipe	Design Load (lbs.)*		Torque
Number	Size (in.)	Type 1	Type 2	(ft./lbs.)
200-3100	½ - 1½	135	65	10 in./lbs.
200-3110	$1^{1/2} - 2^{1/4}$	135	65	3
200-3120	$2^{1/4} - 3^{1/4}$	145	70	3
200-3130	3 – 4	215	70	3
200-3140	$4 - 6\frac{1}{2}$	215	70	3

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



Strap Polyurethane Insert

Note: For use with -SST systems only

Part Number 200-4101



20



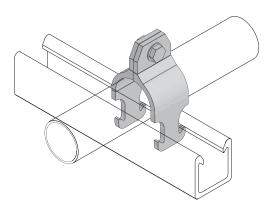
Rigid Pipe Clamps

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	Nominal	PVC Sch. 80 and	Des Loads	•	FRP Bolt	FRP Bolt Torque
Number	Size (in.)	Rigid Metal	Type 1	Type 2	Size (in.)	(ft./lbs.)
PCR-050	1/2	0.840	225	90	3/8 x 1 ¹ / ₄	3
PCR-075	3/4	1.050	225	90	3/8 x 1 ¹ / ₄	3
PCR-100	1	1.315	225	90	3/8 x 1 ¹ / ₄	3
PCR-125	1 ½	1.660	225	90	3/8 x 1 ¹ / ₄	3
PCR-150	11/2	1.900	225	90	3/8 x 1 ¹ / ₄	3
PCR-200	2	2.375	225	90	3/8 x 1 ¹ / ₄	3
PCR-250	2 ¹ / ₂	2.875	225	90	$\frac{3}{8}$ x $\frac{1}{4}$	3
PCR-300	3	3.500	225	90	$\frac{3}{8}$ x $\frac{1}{4}$	3
PCR-400	4	4.500	300	125	$\frac{3}{8}$ x $1\frac{1}{4}$	3
PCR-600	6	6.625	300	125	3/8 x 1 ¹ / ₄	3
PCR-800	8	8.625	300	125	3/8 x 1 ¹ / ₄	3



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

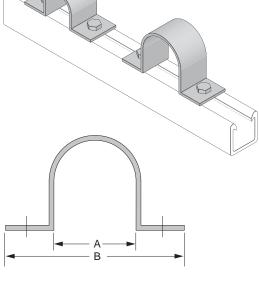
*Design loads shown represent a 3:1 safety factor.

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 fireretardant, 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	_	nsion	Bolt Size	Material	_	oad (lbs)*	Torque
Number	A (in.)	B (in.)	(in.)	Size (in.)	Type 1	Type2	(ft./lbs.)
PS050	0.840	4.840	1/2	¹⁄4 x 1⁵⁄8	135	50	4
PS075	1.050	5.050	1/2	¹⁄4 x 1⁵⁄8	135	50	4
PS100	1.315	5.315	1/2	¹⁄₄ x 15⁄⁄8	135	50	4
PS150	1.900	5.900	1/2	¹⁄₄ x 1 5⁄8	135	50	4
PS200	2 ³ / ₈	6.375	1/2	¹⁄₄ x 1 5⁄⁄8	135	50	4
PS250	2 ⁷ /8	6.875	1/2	¹⁄4 x 1 5⁄8	135	50	4
PS300	31/2	7.500	1/2	¹⁄4 x 1⁵⁄8	135	50	4
PS350	4	8.000	1/2	¹⁄₄ x 1 5⁄⁄8	135	50	4
PS400	$4^{1/2}$	8.500	1/2	¹⁄4 x 1 5⁄8	175	60	4
PS500	5 ⁹ ⁄ ₁₆	9.563	1/2	¹ / ₄ x 1 ⁵ / ₈	175	60	4
PS600	65//8	10.625	1/2	$^{1}/_{4}$ x $1^{5}/_{8}$	175	60	4
PS800	8 5//8	12.625	1/2	$^{1}/_{4} \times 1^{5}/_{8}$	225	125	4
PS1000	103/4	15.750	5/8	¹⁄₄ x 1 5⁄8	225	125	10
PS1200	12 ³ / ₄	16.250	5/8	¹⁄4 x 1 5⁄8	225	125	10
PS1400	14	18.000	5/8	3⁄8 x 1 5∕8	250	150	10
PS1600	16	20.000	5/8	3⁄8 x 15⁄8	250	150	10
PS1800	18	23.000	5/8	3% x 15%	250	150	10



When bolting onto 15%" or 11%" channel a 11%" long bolt is required.

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

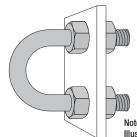
Notes: Bolts and channel nuts are sold separately.



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.

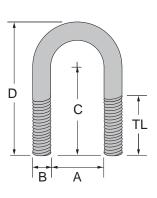
Each U-Bolt comes with two polyurethane hex nuts. Additional nuts and washers can be purchased separately.



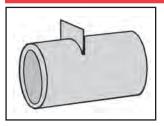
The U-Bolts can also be installed to allow for thermal expansion and contraction of plastic pipe as shown here.

Note: Plate not included. Illustration purpose only

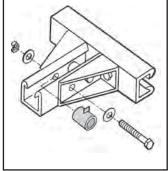
Part Number	Size (in.)	"A" Dim.	"B" Dim.	"C" Dim.	"D" Dim.	"TL" Dim.	Load (lbs.)*	Torque (in./lbs.)*
UB-050	1/2	0.937	0.375	1.568	2.412	1.25	135	40
UB-075	3/4	1.125	0.375	1.662	2.600	1.25	135	40
UB-100	1	1.375	0.375	1.787	2.850	1.25	135	40
UB-125	11/4	1.687	0.375	1.943	3.162	1.25	135	40
UB-150	1½	2.000	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	21/2	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	31/2	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
<u>UB-600</u>	6	6.750	0.625	5.750	9.875	3.25	135	120



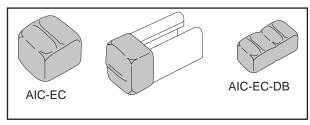
Channel Spacers 50PU-500SP



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 %" and 1 ½" bolts. The spacers are designed to be used only with 1^5 %" and 1^1 ½" channels.

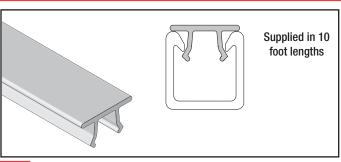


Channel End Cap AIC-EC



The Aickin-End Cap is made from red PVC and designed for 15%" 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).

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

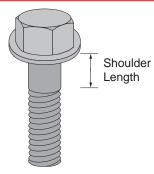


Fiberfast Bolts

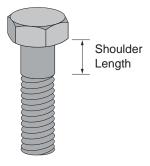
Fiberfast bolts are provided in two styles and five diameters (${}^{1}4$ ", ${}^{3}4$ ", ${}^{1}2$ ", ${}^{5}8$ " and ${}^{3}4$ ") and range in length from ${}^{1}4$ " to ${}^{3}4$ ". The flanged style incorporates a molded washer collar which eliminates the need for a washer. The flanged style is provided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

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

Hex Flange Bolts



Hex Bolts



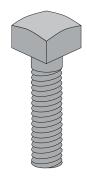
Size (in.)	Thread Shear (lbs.)*	Shank Shear (lbs.)*	Shoulder Length (in.)	Torque (ft./lbs.)
$\frac{1}{4}$ x $\frac{3}{4}$	110	210	Full Thread	10 In./lbs.
$\frac{1}{4}$ x 1	110	210	Full Thread	10 In./lbs.
$\frac{1}{4}$ x $\frac{1}{2}$	110	210	1/2	10 In./lbs.
5⁄16 x 1	160	300	Full Thread	20 In./lbs.
5/16 x 1 1 1/4	160	300	Full Thread	20 In./lbs.
5⁄16 x 2	160	300	1/2	20 In./lbs.
$\frac{1}{2}$ x $\frac{1}{4}$	450	870	Full Thread	8
$\frac{1}{2}$ x $\frac{1}{2}$	450	870	Full Thread	8
½ x 2	450	870	3/4	8
$\frac{1}{2}$ x $2\frac{1}{2}$	450	870	3/4	8
$\frac{1}{2}$ x 3	450	870	1	8
½ x 3½	450	870	23/16	8
	(in.) 1/4 x 3/4 1/4 x 1 1/4 x 11/2 5/16 x 1 5/16 x 11/4 5/16 x 2 1/2 x 11/4 1/2 x 11/2 1/2 x 2 1/2 x 21/2 1/2 x 3	Size (lbs.)* 1/4 x 3/4 110 1/4 x 1 110 1/4 x 11/2 110 5/16 x 1 160 5/16 x 11/4 160 5/16 x 2 160 1/2 x 11/4 450 1/2 x 11/2 450 1/2 x 2 450 1/2 x 21/2 450 1/2 x 3 450	Size (in.) Shear (lbs.)* Shear (lbs.)* ½x 3¼ 110 210 ½x 1 110 210 ½x 1½ 110 210 ½x 1½ 160 300 ½x 1¼ 160 300 ½x 2 160 300 ½x 1¼ 450 870 ½x 1½ 450 870 ½x 2 ½ 450 870 ½x 3 450 870 ½x 3 450 870	Size (in.) Shear (lbs.)* Shear (lbs.)* Length (in.) $1/4 \times 3/4$ 110 210 Full Thread $1/4 \times 1$ 110 210 Full Thread $1/4 \times 11/2$ 110 210 $1/2$ $5/6 \times 1$ 160 300 Full Thread $5/6 \times 1$ 160 300 Full Thread $5/6 \times 2$ 160 300 $1/2$ $1/2 \times 2$ 450 870 Full Thread $1/2 \times 11/2$ 450 870 Full Thread $1/2 \times 2$ 450 870 $3/4$ $1/2 \times 2$ 450 870 $3/4$ $1/2 \times 3$ 450 870 1

Part Number	Size (in.)	Thread Shear (lbs.)*	Shank Shear (lbs.)*	Shoulder Length (in.)	Torque (ft./lbs.)
375PU-125	3/8 x 1 ¹ / ₄	250	470	Full Thread	3
375PU-150	$\frac{3}{8}$ x $\frac{1}{2}$	250	470	1/4	3
375PU-200	3⁄8 x 2	250	470	1/2	3
375PU-250	3/8 x 2 ¹ / ₂	250	470	3/4	3
375PU-300	3⁄8 x 3	250	470	1	3
625PU-125	5⁄8 x 1 1∕4	700	1,360	1/4	12
625PU-150	5⁄8 x 11∕⁄2	700	1,360	1/4	12
625PU-200	5⁄8 x 2	700	1,360	1/4	12
625PU-250	5⁄8 x 2 ¹ ∕₂	700	1,360	1/4	12
625PU-300	5⁄8 x 3	700	1,360	1/4	12
625PU-350	5⁄8 x 3 ¹ ∕₂	700	1,360	1 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 ¾" 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.



		Thread	
Part	Size	Shear	Torque
Number	(in.)	(lbs.)*	(ft./lbs.)*
375V-100	3⁄8 x 1	250	10
375V-125	$\frac{3}{8}$ x $\frac{1}{4}$	250	10
375V-150	$\frac{3}{8}$ x $\frac{1}{2}$	250	10
375V-175	3/8 x 13/4	250	10
375V-200	3⁄8 x 2	250	10
375V-250	3/8 x 21/2	250	10
375V-300	3/8 x 3	250	10
375V-350	$3\% \times 3^{1}/_{2}$	250	10
375V-400	3⁄8 x 4	250	10

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

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



Fiberfast Hex Nuts

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

thread shear strength. All nuts are manufactured from glass-reinforced polyurethane and are packaged in bags containing 25 pieces. All hex and hex flange nuts are available in PVDF and Polypropylene and metric sizes as a special order. Contact the factory for pricing and availability.

Hex Nuts

Hex Flange Nuts

Part

Number

375PU-FN-000

500PU-FN-000

625PU-FN-000

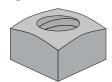
750PU-FN-000

1000PU-FN-000

3:1 safety factor.

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 (lbs.)*	Height (In.)	Torque (ft./lbs.)
375V-000	3/8-16	1,300	0.437	10
500V-000	½-13	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.



Part Number	Size (in.)	Thread Shear (lbs.)*	Height (in.)	Torque (ft./lbs.)
250PU-000	1/4-20	150	0.218	10 in./lbs.
312PU-000	5√16 -18	160	0.273	20 in./lbs.
375PU-000	3⁄8 - 16	460	0.328	3
500PU-000	1/2-13	800	0.437	8
625PU-000	⅓-11	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.

Flat Washers are made from PVC and

are available for 1/4" diameter through

connections that utilize hex nuts and bolts. PVC washers are packaged in

1". PVC washers are recommended for

Flat Washers

All-Thread Washers

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

Thread

(lbs.)*

500

1,200

2,200

2,900

2900

Shear Height Torque

0.750

0.855

1.220

1.590

1.75

(In.) (ft./lbs.)

3

8

12

15

17

Size

(in.)

%-16

½-13

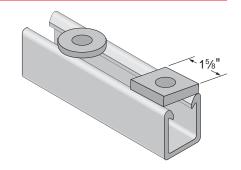
%-11

3/4-10

1-8

*Thread shear values shown represent a

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



bags containing 25 pieces.

Part	Size	Outside Diameter
Number	(in.)	(in.)
250E-999	1/4	0.49
312E-999	5/16	0.75
375E-999	3/8	1.00
500E-999	1/2	1.25
625E-999	5/8	1.50
750E-999	3/4	1.50
1000E-999	1	2.25

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

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

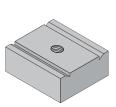
^{*} Add the suffix "-SQ" to the part number to specify square washer Example "WR500-SQ"



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

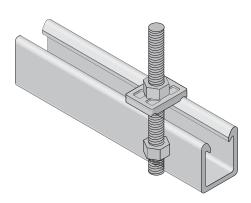


		inreau	
Part	Size	Shear	Torque
Number	(in.)	(lbs.)*	(ft./lbs.)
375PU-CNHD	³ / ₈ -16	1,400	8
500PU-CNHD	1/2-13	1,400	8
625PU-CNHD	5/8-11	1,400	10
750PU-CNHD	³ / ₄ -10	1,400	10
10PU-CNMHD	10 mm	1,400	8
12PU-CNMHD	12 mm	1,400	8
16PU-CNMHD	16 mm	1,400	10
20PU-CNMHD	20 mm	1,400	10

Throad

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



Standard Duty Channel Nuts

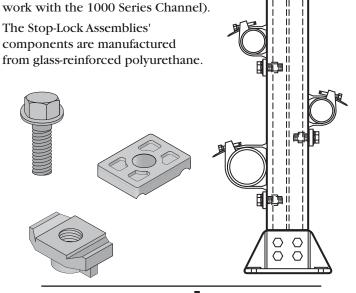


Part	Size	Thread Shear	Torque
Number	(in.)	(lbs.)*	(ft./lbs.)
250PU-CN	1/4-20	460	2
312PU-CN	⁵ ⁄ ₁₆ -18	460	2
375PU-CN	³ / ₈ -16	460	3
500PU-CN	1/2-13	460	3
10PU-CN	10 mm	460	3
12PU-CN	12 mm	460	3
10PU-CNS	#10 Screv	v 460	N/A

^{*}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 $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " bolt size. The $\frac{5}{8}$ " Stop-Lock Assembly is supplied with a heavy duty channel nut (the $\frac{5}{8}$ " Stop-Lock Assembly will not



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.

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

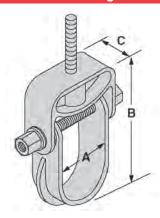


Clevis Hangers

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".

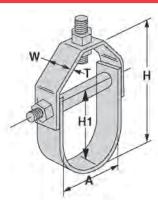
Molded Clevis Hangers



Part Number	Nominal Diameter (in.)	Max. Pipe O.D. (in.)	"A" Dim.	"B" Dim.	"C" Dim.	Hanger Rod (in.)	Load (lbs.)*
CVHPU-100	1/2 - 1	1	1.500	4.25	1.25	1/2	670
CVHPU-150	11/4 - 11/2	1½	2.000	5.14	1.25	1/2	670
CVHPU-200	1½ - 2	2	2.500	6.52	1.25	1/2	730
CVHPU-400	21/2 - 4	4	5.125	10.00	1.50	1/2	1,150
CVHPU-600	4½ - 6	6	6.750	12.33	1.50	1/2	1,170

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

Hand Lay-Up Clevis Hangers



Part	Size Range (In.))	Dii	nensions (i	n.)	Hanger Rod	Trans Rod	Spreader Rod O.D.	Loads
Number	A	T	Н	H1	W	(in.)	(in.)	(in.)	(lbs.)*
100-1500	1 - 1½	1/8	23/4	17/8	11/2	1/2	3/8	1/2	60
100-1501	$1\frac{1}{2} - 2$	1/8	$3^{1}/_{2}$	2 ³ / ₈	11/2	1/2	3/8	1/2	60
100-1502	$2 - 2\frac{5}{8}$	1/8	43/4	3	2	1/2	3/8	1/2	90
100-1503	$2^{1/2} - 3^{1/4}$	1/8	51/2	3 ⁵ / ₈	2	1/2	3/8	1/2	120
100-1504	$3 - 3\frac{7}{8}$	1/8	7	4 ¹ / ₄	2	5/8	3/8	1/2	160
100-1505	$4 - 5\frac{1}{8}$	³ / ₁₆	81/2	5 ⁵ / ₈	2	5/8	3/8	1/2	250
100-1506	6 - 71/8	3/16	10 ⁷ / ₈	71/2	3	5/8	3/8	1/2	300
100-1507	$8 - 9^{1/4}$	1/4	14	93/4	3	5/8	3/8	1/2	350
100-1508	10 - 11 ³ / ₈	1/4	18	12	4	5/8	1/2	3/4	450
100-1509	12 - 13½	1/4	21½	14 ¹ / ₈	5	5/8	1/2	3/4	600
100-1510	14 - 15¾	1/4	24½	16½	5	3/4	1/2	3/4	700
100-1511	16 - 18	3/8	273//8	191/2	6	3/4	3/4	1	750
100-1512	19 – 21	3/8	34½	221/2	6	3/4	3/4	1	800
100-1513	21 - 22	1/2	$35\frac{1}{2}$	24	6	3/4	3/4	1	850
100-1514	22 - 24	1/2	41	28	6	3/4	3/4	1	900

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



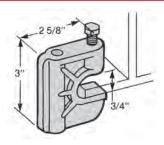
Beam Clamps

Aickinstrut beam clamps are available in two styles; molded and fabricated. The molded beam clamps are manufactured from glass-reinforced polyurethane and can accommodate $\frac{3}{8}$ ", $\frac{1}{8}$ " 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.

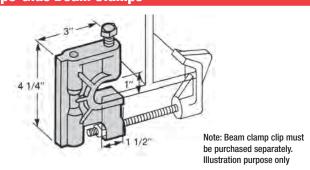
Molded Beam Clamps



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

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

Cope-Glas Beam Clamps

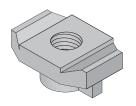


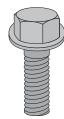
		Thread	
Part	Size	Shear	Torque
Number	(in.)	(lbs.)*	(ft./lbs.)
RGBC1	3/8	500	10
RGBC2	1/2	500	10
RGBC3	5/8	500	10

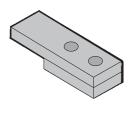
Beam Clip - 375PU-BCCLP (3/8")



Fabricated Beam Clamps

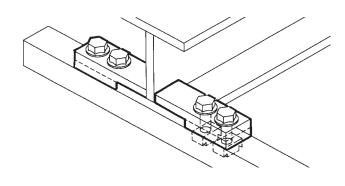






Part Number	Flange Thickness (in.)	Thread Shear (lbs.)*	Torque (ft./lbs.)
20V-2BC-25	1/4	600	10
20V-2BC-37	3/8	600	10
20V-2BC-50	1/2	600	10

^{*}Design load values shown represent a 3:1 safety factor. Bolts and channel nuts are $\frac{1}{2}$ " diameter.

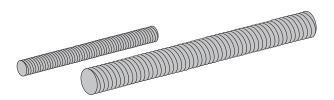




Threaded Rod

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'.

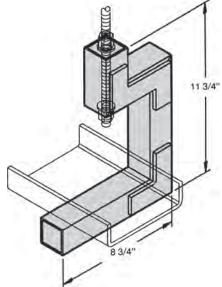


Part Number	Size (in.)	Weight (lbs.)	Thread Shear (Ibs.)*	Torque (ft./lbs.)
200-3827	³ / ₈ -16	0.07	415	5
200-3828	¹ / ₂ -13	0.12	570	10
200-3829	⁵ ⁄₀ -11	0.18	1,260	40
200-3830	³ / ₄ -10	0.28	1,700	50
200-3831	1-8	0.50	3,000	60

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

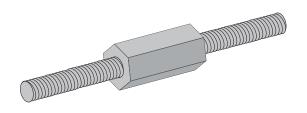
Channel Hangers AIC-CH-P (Polyester) AIC-CH-V (Vinyl Ester)

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 ½" FRP all-thread rod and beam clamp (not provided). The Channel Hanger will accommodate "C" channel width sizes 2" through 8".



A-Konnector Rod Couplers

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



Part Number	Size (in.)	Length (ln.)	Thread Shear (lbs.)*
200-3840	³ ⁄ ₈ -16	2 ¹ / ₄	800
200-3841	¹ / ₂ -13	21/4	870
200-3842	⁵ /8 -11	21/4	1,500
200-3843	³ / ₄ -10	21/4	1,500

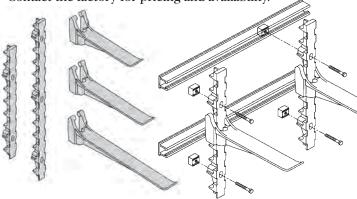
^{*} Thread shear values shown represent a 3:1 safety factor.

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



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 %6" wide x ½6" long holes to accept fasteners for mounting. There are two mounting holes in the 21¾" long stanchion and three mounting holes in the 33¾6" long stanchion. Thickness at the slotted mounting holes is ½1%". The mounting holes are spaced on 12" centers and require ½" diameter fasteners.

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

industrial anchoring system. For new concrete structures, the Power-Rack Stanchions can be mounted to Aickinstrut concrete embedment channel and attached with ½" channel nuts and ½"x 3" Fiberfast Bolts.

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

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

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

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

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

Total load (200<800 lbs) = 0K

Tot. moment (200x5 in. = 1000 < 1200 in./lbs.) = 0K

Part No.	Description	Weight (lbs.)	Load (lbs.)*
20N-ARM08	8" Arm	1.00	800
20N-ARM14	14½" Arm	1.16	800
20N-ARM17	17½" Arm	1.45	800
20N-ARM23	23 ⁷ / ₈ " Arm	1.86	800
20N-STA21	213/4" Stanchion	1.49	N/A
20N-STA33	335/16" 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)



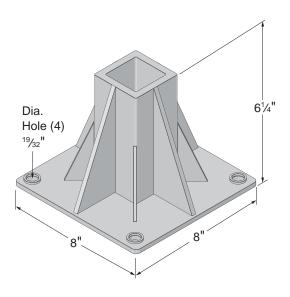
Instrument & Pipe Stands

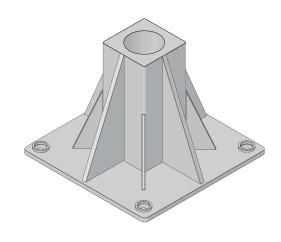


Heavy Duty Post Base

20PU-5852 (2" Square), 20PU-5852 RD (2" Round) 20PU-5853 HD (15%" Sq.), 20PU-5854 HD (11/2" Sq.), 20PU-5853 (15%" 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: 1½", 15½", 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.

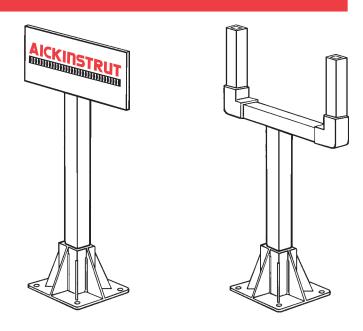




Instrument & Pipe Stands

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.

0 1101

- ST Standard Isophthalic Polyester Resin; 0 = (Olive Green)
- FR Isophthalic Polyester Fire Retardant Resin; P = (Dark Gray)

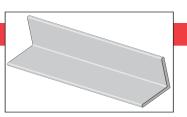
NOTES

- VE Vinyl Ester Fire Retardant Resin; V = (Beige)
 - Stock Item; ◆ Stocked in Yellow

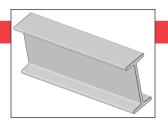
In part numbers shown below, replace "X" with resin and color code (0, P, V).

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

Equal Leg Angle



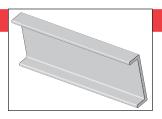
I-Beam



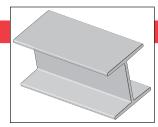
Cine (In)		Resir	1	##: F4	Dort No.	
Size (In.)	ST	FR	VE	#/Lin. Ft.	Part No.	
1 x 1/8				0.21	18X-1100-20	
1 1/4 x 1/8	_	_	_	0.23	18X-1110-20	
1½ x ¾16				0.37	18X-1120-20	
1½ x ¼				0.51	18X-1130-20	
2 x ¹ / ₄				0.68	18X-1200-20	
3 x ¹ / ₄				1.04	18X-1300-20	
3 x 3/8				1.65	18X-1310-20	
3 x ½	-	-	-	2.15	18X-1320-20	
4 x ½				1.41	18X-1400-20	
4 x 3/8				2.23	18X-1410-20	
4 x ½				2.92	18X-1420-20	
6 x 3/8				3.44	18X-1500-20	
6 x ½				4.50	18X-1510-20	

Cino (In)		Resin		#/1:m E4	Dovt No.	
Size (In.)	ST	ST FR VE		#/Lin. Ft.	Part No.	
3 x 2 x 1½ x ¼	_	_	_	1.18	18X-2100-20	
$3 \times 1\frac{1}{2} \times \frac{1}{4}$	-	_	_	1.11	18X-2300-20	
4 x 2 x ¹ / ₄				1.46	18X-2400-20	
6 x 3 x ½				2.24	18X-2600-20	
6 x 3 x 3/8	-	_	_	3.29	18X-2800-20	
$8 \times 4 \times \frac{3}{8}$				4.46	18X-2110-20	
8 x 4 x ½	_	_	-	5.85	18X-2130-20	
10 x 5 x 3/8	-	_	_	5.78	18X-2160-20	
10 x 5 x ½	-			7.41	18X-2180-20	
12 x 6 x ½	-	_	_	8.97	18X-2210-25	
18 x 3/8 x 41/2 x 1/2	_	_	_	8.48	18X-2230-20	
24 x 3/8 x 71/2 x 3/4	_	_	_	15.20	18X-2240-20	

Channel



Wide Flange I-Beam



Ciro (In)		Resir	1	#/lin E4	Dort No.
Size (In.)	ST	FR	VE	#/Lin. Ft.	Part No.
2 x ⁹ / ₁₆ x ¹ / ₈			_	0.25	18X-2916-20
$3 \times \frac{7}{8} \times \frac{1}{4}$			_	0.77	18X-3078-20
$3 \times 1 \times \frac{1}{4}$				0.87	18X-3114-20
3 x 1½ x ¼	_			1.07	18X-3112-20
3 x ½ x 1¾6 x 1/8	_	_	_	0.65	18X-31316-20
4 x 1 1/8 x 1/4				1.11	18X-4118-20
4 x 13/8 x 3/16				0.86	18X-4138-20
6 x 15/8 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 v 23/ v 1/	-	-		5 65	10V 10224 20

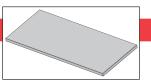
Note: MOQ required, put all X in (X)

Ciro (In)	Resin			##: FA	Dowl No.
Size (In.)	ST	FR	VE	#/Lin. Ft.	Part No.
$3 \times 3 \times \frac{1}{4}$				1.69	18X-2200-20
$4 \times 4 \times \frac{1}{4}$				2.10	18X-2500-20
$6 \times 6 \times \frac{1}{4}$				3.41	18X-2700-20
6 x 6 x 3/8				5.05	18X-2900-20
$8 \times 8 \times \frac{3}{8}$				6.49	18X-2120-20
$8 \times 8 \times \frac{1}{2}$	_			8.70	18X-2140-20
10 x 10 x 3/8	_	-	-	8.74	18X-2170-20
$10 \times 10 \times \frac{1}{2}$	_			10.90	18X-2190-25
$12 \times 12 \times \frac{1}{2}$	_			13.20	18X-2220-25

Structural Shapes

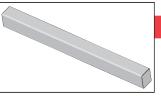


Flat Sheet



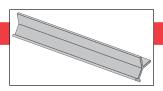
Cine (In)	Resin			4/1:m FA	Doub No.	
Size (In.)	ST	FR	VE	#/Lin. Ft.	Part No.	
1/8 x 48 x 96				1.14	18X-4100	
3/16 x 48 x 96				1.71	18X-4200	
½ x 48 x 96				2.34	18X-4300	
3/8 x 48 x 96				3.54	18X-4400	
½ x 48 x 96				4.68	18X-4500	
5% x 48 x 96	-	_	-	5.79	18X-4600	
³ / ₄ x 48 x 96	-	_	_	6.94	18X-4700	
1 x 48 x 96	_	_	_	9.27	18X-4800	

Square Bar



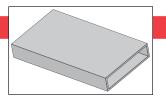
Ciro (In)		Resir	1	#/Lin. Ft.	Part No.
Size (In.)	ST	FR	VE		
1 x 1		_	_	0.87	18X-5100-20
11/4 x 11/4	_	•	_	1.31	18X-5125-20
1½ x 1½	_	•	_	1.98	18X-5150-20
2 x 2	_	_	_	3.12	18X-5200-20

Embedment Angle



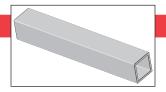
Ciro (In)		Resir	1	#/Lin. Ft.	Part No.
Size (In.)	ST	FR	VE		
1 x 1½ x ¼	_	_		1.00	18X-111214-20
1½ x 1½ x ½	_	_		1.10	18X-11211214-20
$2 \times 1\frac{1}{2} \times \frac{1}{4}$	_	_		1.20	18X-211214-20

Rectangular Tube



Size (In.)	Resin			#/Lin. Ft.	Part No.	
3126 (III.)	ST	FR	VE	#/LIII. Ft.	rait NV.	
4 x 1 x 1/8	_	_	_	0.85	18X-4118-20	
$4 \times \frac{1}{8} \times 2 \times \frac{1}{4}$				1.52	18X-418214-20	
43% x 13% x 1/8 x 3/16	_	-	_	1.18	18X-438138-20	
4½ x 1¾ x 1/8 x 3/16	_	_	_	1.29	18X-412138-20	
5 x 2 x 1/8	_	_	_	1.32	18X-5218-20	
5½ x 2½ x ¾16	_	_	_	1.32	18X-518218-20	
6½ x ¼ x 2 x ½	_	_	_	3.77	18X-612212-20	
$6 \times 4 \times \frac{1}{4}$	_		_		18X-6414-20	

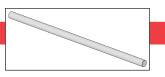
Square Tube



Size (In.)		Resin		#/Lin. Ft.	Part No.
OIZC (III.)	ST	FR	VE	π/LIII. I C.	i ait iio.
1 x 1/8				0.32	18X-3100-20
11/8 x 1/8	_	-	_	0.37	18X-3200-20
1 ½ x ½	_	_	_	0.41	18X-3300-20
1 ½ x ½	_	-	_	0.68	18X-3310-20
1½ x 1/8		•	•	0.54	18X-3400-20
1½ x ¼	_	-		0.98	18X-3410-20
13/4 x 1/8	_	•	•	0.63	18X-3500-20
13/4 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
21/4 x 1/8	_	•	_	0.83	18X-3800-20
$2^{1/4} \times ^{1/4}$	_	_	_	1.56	18X-3810-20
21/2 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



Round Rod



Ciro (In)		Resir	1	#/1:n F4	Down No.
Size (In.)	ST	FR	VE	#/Lin. Ft.	Part No.
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
11/4		-	_	1.08	18X-70114-20
1½		-	_	1.56	18X-70112-20
2	_	_	_	2.56	18X-70200-20
2 ½	_		_	4.10	18X-70212-20
3	_	_	_	5.70	18X-70300-20

Round Tube



Size (In.)	Resin			#/Lin. Ft.	Part No.
	ST	FR	VE	π/ L III. I C.	i ait No.
1 x .100	_	_	_	0.22	18X-7100-20
1 x ½			_	0.25	18X-7118-20
11/4 x 3/32	-	_	-	0.27	18X-7114332-20
11/4 x 1/8	_	_	_	0.32	18X-711418-20
11/4 x 1/4	_	_	-	0.60	18X-711414-20
1½ x 1/8			_	0.45	18X-711218-20
1½ x ¼	_		_	0.79	18X-711214-20
13/4 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 ½		_	_	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

NOTES AICKINSTRUT

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20E-2300	2
20P-1000	2
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625PU Series Bolts 625PU-000 625PU-RN-000 625PU-FN-000 625PU-FN-000 750E-999 750PU-CNHD 750PU-CNHD 750PU-FN-000 1000E-999 1000PU-000 1000PU-FN-000	23 24 25 24 24 24 25 24 24 24 24 24 24 24 26 26
625PU Series Bolts 625PU-000 625PU-CNHD 625PU-FN-000 625V-000 750E-999 750PU-000 750PU-CNHD 750PU-FN-000 1000E-999 1000PU-FN-000 1000PU-FN-000 WR375 thru WR750 WR375SQ thru WR750SQ Pipe Hangers 2 CVHPU-100 thru CVHPU-600 100-1500 thru 100-1514	23 24 25 24 24 24 25 24 24 24 24 24 24 24 26 26 26
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625PU Series Bolts 625PU-000 625PU-CNHD 625PU-FN-000 625PU-FN-000 750E-999 750PU-000 750PU-CNHD 750PU-FN-000 1000E-999 1000PU-FN-000 1000PU-FN-000 WR375 thru WR750 WR375SQ thru WR750SQ Pipe Hangers 2 CVHPU-100 thru CVHPU-600 100-1500 thru 100-1514 Pipe Hanging Accessories 27-200-3827 thru 200-3831	23 24 25 24 24 24 25 24 24 24 24 24 24 26 26 28
625PU Series Bolts 625PU-000 625PU-CNHD 625PU-FN-000 625V-000 750E-999 750PU-000 750PU-CNHD 750PU-FN-000 1000E-999 1000PU-FN-000 1000PU-FN-000 WR375 thru WR750 WR375SQ thru WR750SQ Pipe Hangers 2 CVHPU-100 thru CVHPU-600 100-1500 thru 100-1514 Pipe Hanging Accessories 27- 200-3827 thru 200-3831 200-3840 thru 200-3843	23 24 25 24 24 24 24 24 24 24 24 26 26 28 28
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625PU Series Bolts 625PU-000 625PU-CNHD 625PU-FN-000 625V-000 750E-999 750PU-000 750PU-CNHD 750PU-FN-000 1000E-999 1000PU-FN-000 1000PU-FN-000 WR375 thru WR750 WR375SQ thru WR750SQ Pipe Hangers 2 CVHPU-100 thru CVHPU-600 100-1500 thru 100-1514 Pipe Hanging Accessories 27-200-3827 thru 200-3841 200-3840 thru 200-3843 20V-2BC-25 20V-2BC-37	23 24 25 24 24 24 24 24 24 24 24 24 26 26 28 28 27 27
625PU Series Bolts 625PU-000 625PU-CNHD 625PU-FN-000 625V-000 750E-999 750PU-000 750PU-CNHD 750PU-FN-000 1000E-999 1000PU-FN-000 1000PU-FN-000 1000V-000 WR375 thru WR750 WR375SQ thru WR750SQ Pipe Hangers 2 CVHPU-100 thru CVHPU-600 100-1500 thru 100-1514 Pipe Hanging Accessories 27- 200-3827 thru 200-3831 200-3840 thru 200-3843 20V-2BC-25 20V-2BC-37 20V-2BC-50	23 24 25 24 24 24 24 24 24 24 24 24 26 26 26 27 27 27
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