



Finishes

The clean contemporary design of Superior Aluminum Pipe Railing and Pipe Picket Railing, with your choice of ten decorative finishes, adds a distinctive touch to any building. Whether baked-on enamel, anodized or duranodic, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.



TECHNICAL SUPPORT - For continuous spans in excess of 40 feet, expansion joints should be provided. To make an expansion joint, one end of the spliced joint should not have structural adhesive applied so that it is free to move in or out of the pipe. If a joint is provided every 30 feet, the width of the gap should allow 1/8" expansion for each 40°F of expected temperature rise. All pipe railing splices should be made no more than 12" from the nearest post.

MATERIALS - All rails and posts shall be formed from extruded 6063-T6 aluminum of 1-1/2" Schedule 40 pipe size, except where there are formed elbows, whereby, 6063-T4 is used. All pickets are 3/4" round, formed from extruded 6063-T5 aluminum. All railing accessories shall be cast from ANSI 713 alloy. All fasteners used in the system shall be aluminum or stainless steel.

WORKMANSHIP - All pipe cuts shall be square and accurate for minimum joint-gap. Cuts shall be clean and free of chamfer, from deburring, nicks and burrs. Holes shall be drilled the proper size for a tight flush fit of rivets and screws. All posts grouted in concrete must have one 1/4" diameter weep hole, 1/2" above post collar, in the plane of the rail.

RIGIDITY - Post spacing shall not exceed 6' 0" center-to-center. All posts will be unspliced single pipe length. Lower rails shall be a single unspliced length between posts. All top rails shall be continuous whenever possible. All fasteners shall be tightened so that completed railing is rigid and free of play at joints and component attachments.

SCOPE OF WORK
Series 500 railing meets federal safety requirements as determined by an independent testing laboratory. Test results available upon request.

Consider the Advantages...

- No rusting - No painting
- Unlimited designs
- Easy installation without welding
- Durable and functional design
- Strong and decorative
- Safe on the location and

...and the Possibilities for: Contractors, Builders & Architects.

- Handicap Ramps
- Condominiums
- Industrial Buildings
- Stores
- Treatment Plants
- Nursing Homes
- Municipal Buildings
- Schools
- Office Buildings
- Motels
- Churches
- Hospitals
- Factories
- Amusement Parks
- Restaurants
- Swimming Pools
- Cafeterias

**Aluminum
Products, Inc.**

Form No. 516S

Non-Welded Aluminum Pipe Railing

**SERIES
500**

Strong, Durable and Maintenance-Free!

Meets OSHA, ADA and BOCA Safety Criteria



Non-Welded Aluminum

SERIES 500 Pipe Railing



Product Presentation

Superior Aluminum Non-welded Series 500 Pipe Railing and Series 550 Pipe Picket Railing are especially designed to utilize all the advantages of aluminum, where strength, durability and no-paint maintenance are key factors. Highest quality aluminum extrusions and castings are used with concealed fasteners, offering a smooth finish, making it the finest contemporary design available on the market today.

Components are easily assembled without welding by using mechanical fasteners at intersections and epoxy structural adhesive at splice joints.

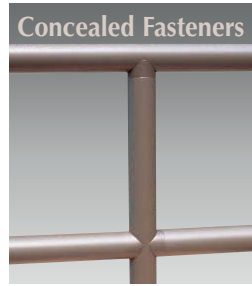
Factory assembled (Series 500 or 550) railings are made to your exact specifications, resulting in further on-site fabrication savings. Special curves or pipe radius can easily be fabricated to fit your job. This makes for a practical sound investment for the budget-minded buyer.

Posts and top rails are assembled to run in continuous lengths. This results in a system that is stronger than one with a cast tee and cross connections, and it provides a continuous smooth top rail surface. The Series 550 pickets are factory assembled with a tight drive-in-fit to the top and bottom rails to assure squareness and rigidity. Preassembled sections up to 24 feet can be shipped factory-assembled or knocked down for reassembly.

SERIES 550 Pipe Picket Railing



Superior Aluminum Railings are available in standard heights of 32", 36", 42" or 48", and in custom heights upon request.



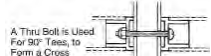
Durable maintenance-free pipe railing which is quick and easy to install without welding.

Railing splices are designed for a tight press fit and must be compressed with a pliers to permit them to slip into the pipe. The areas to be joined should be cleaned thoroughly. Mix adhesive according to manufacturer's directions. Mix only enough that you can use within 1/2 hour. Apply adhesive to inside surface of pipe. Compress splice sleeve with a pliers, then slip into the pipe. Wipe off excess adhesive after components are properly joined. The areas connected together should be left undisturbed for eight hours, longer in cold weather.

Tee Fittings



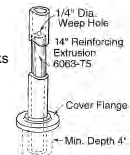
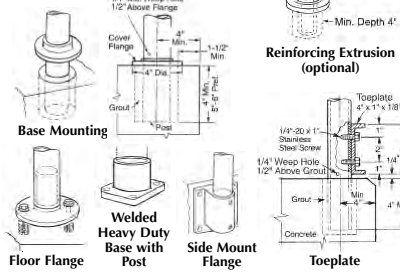
To attach the tee fitting to the post, a self tapping, stainless steel, hexagon head screw with lockwasher is positioned through the fitting and threaded into the 7/32" hole in the tubular post.



When two 90° tees are located directly opposite each other to form a cross, a stainless steel thread bolt, lockwasher and nut are used.

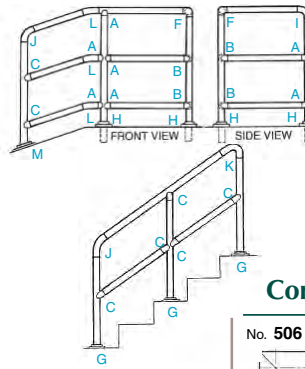
Mounting Options

Pipe or picket railing can be embedded in concrete and grouted, or mounted on decks and platforms with base flanges, or side-mounted on fascia or stringer by means of fascia flanges.

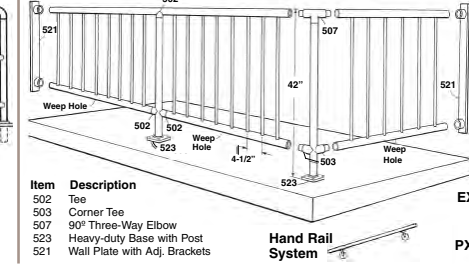


Part Applications

Series 500 Pipe Railing

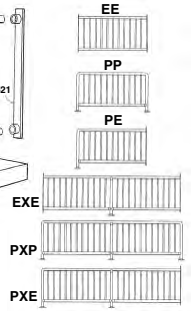


Series 550 Pipe Picket Railing



Item	Description
502	Tee
503	Corner Tee
507	90° Three-Way Elbow
523	Heavy-duty Base with Post
521	Wall Plate with Adj. Brackets

Picket Railing Design Selections



Component Parts for Series 500 & 550

<p>No. 5B Picket</p> <p>x = .050" y = .750"</p>	<p>No. 506 90° Miter Elbow</p> <p>a = 2.00" y = 1.900"</p>	<p>No. 513 Rail Elbow (L) (Specify Angle)</p> <p>Bend Angle a = 2.00" y = 1.900"</p>	<p>No. 521 Wall Plate With Adj. Brackets (N)</p> <p>a = 1.50" y = 1.937"</p>
<p>No. 500 1-1/2" Schedule 40 Pipe -24"</p> <p>x = .145" y = 1.900"</p>	<p>No. 507 90° 3-Way Elbow (F)</p> <p>a = 2.00" y = 1.900"</p>	<p>No. 514 Post Cap</p> <p>x = y = 1.60" x = 1.90"</p>	<p>No. 522 135° 3-Way Elbow 22-1/2" 22-1/2"</p>
<p>No. 501 Post (Any Type)</p> <p>x = .145" y = 1.900"</p>	<p>No. 508 Floor Flange (G)</p> <p>3.50" 4.00" 5.00" 25/64" Dia. Mtg. Holes</p>	<p>No. 515 Wall Bracket</p> <p>3" 25/64" Dia. Mtg. Hole a = 2.50" y = 1.900"</p>	<p>No. 523 Heavy Duty Base with Post Schedule 40 Pipe (Flat or 4-3/4" Ramp) 7/16" Dia. Mtg. Holes</p> <p>4.25" 2.50" 4.75"</p>
<p>No. 502 Tee (A)</p> <p>a = 1.250" y = 1.900"</p>	<p>No. 509 Cover Flange (H)</p> <p>1.937" 4.00"</p>	<p>No. 517 Splice</p> <p>5" y = 1.610"</p>	<p>No. 540 Side Mount Flange</p> <p>3.50" 5.00" Sq. 25/64" Dia. Mtg. Holes</p>
<p>No. 503 Corner Tee (B)</p> <p>a = 1.250" y = 1.900"</p>	<p>No. 510 90° Radius Elbow (I)</p> <p>8" 8" r = 4.00" y = 1.900"</p>	<p>No. 518 Angle Flange with Post (M) (Specify Angle)</p> <p>Schedule 40 Pipe y = 1.900" 42" 50" 50" 25/64" Dia. Mtg. Holes</p>	<p>No. 541 Heavy-Duty Base Welded to Post (Flat or 4-3/4" Ramp)</p> <p>7/16" Dia. Mtg. Holes 3" 3.375" 4.75" 3.375"</p>
<p>No. 504 Angle Tee (C)</p> <p>y = 1.900" (Specify Required Angle (0°-41°))</p>	<p>No. 511 Bottom Step Post Elbow (J) (Specify Angle)</p> <p>8" 8" r = 4.00" y = 1.900"</p>	<p>No. 519 Wall Return Bend</p> <p>1.50" 7.75" y = 1.900" r = 4.00"</p>	<p>No. 550 Wedge Base with Stud (with cover flange)</p> <p>7" 4" Cover Flange (H)</p>
<p>No. 505 Adj. Angle (0°-38°)</p> <p>a = 2.50" b = 2.50" c = 1.900" U.S. Patent No. 4,767,232</p>	<p>No. 512 Top Step Post Elbow (K) (Specify Angle)</p> <p>12" 12" r = 4.00" y = 1.900"</p>	<p>No. 520 Wall Plate with Brackets</p> <p>a = .875" y = Snug</p>	