



Superior

Non-Welded Aluminum
Pipe Railing

Meets OSHA, ADA, and ICC Safety Criteria

SERIES
500
550

Strong, Durable, and Maintenance-Free!

www.superioraluminum.com



Series 500 Pipe & Series 550 Pipe Picket Non-Welded Aluminum Pipe Railing

Meets OSHA, ADA, and ICC Safety Criteria

Superior Series 500 Pipe Railing and Series 550 Pipe Picket Railing are designed to utilize all the advantages of aluminum, where strength, durability and no-paint maintenance are key. The highest quality aluminum extrusions and castings are used with concealed fasteners to create a clean, contemporary design.

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

Superior Pipe and Pipe Picket Railings are factory assembled and made to your exact specifications. Special curves or pipe radius can easily be fabricated to fit your needs. This results in further on-site fabrication savings and makes a practical sound investment for the budget-minded buyer.

Posts and top rails for Pipe and Pipe Picket Railings are assembled to run in continuous lengths. Not only is this system stronger than one with cast tee and cross connections, but it also provides a continuous smooth top rail surface. Furthermore, pipe pickets are factory

assembled with a tight drive-in-fit to the top and bottom rails to ensure squareness and rigidity.

Pre-assembled sections up to 24 feet can be shipped factory-assembled or knocked down for reassembly.

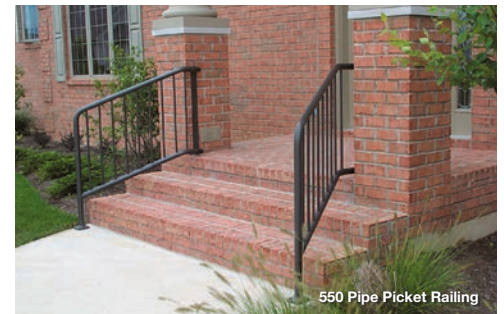
Superior Pipe and Pipe Picket Railings are available in standard heights of 32", 36", 42" and 48" and in custom heights upon request.

Finishes

The clean, contemporary design and smart, decorative finishes of Superior Pipe and Pipe Picket Railing add a distinctive touch to any building. Whether baked-on enamel, anodized or duranodic, these finishes are guaranteed to endure for years of maintenance-free beauty.



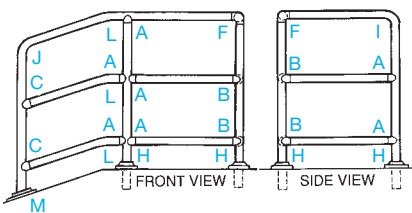
Concealed fasteners allow for a smooth surface and create a clean, contemporary design



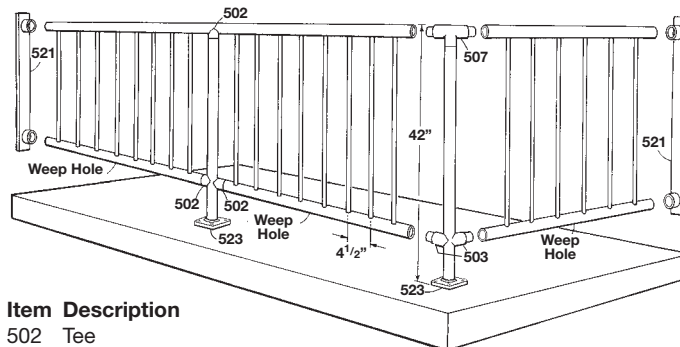
Part Applications

Series 500 Pipe Railing

Series 550 Pipe Picket Railing



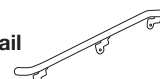
Note: Component parts A - L are detailed on page 3.



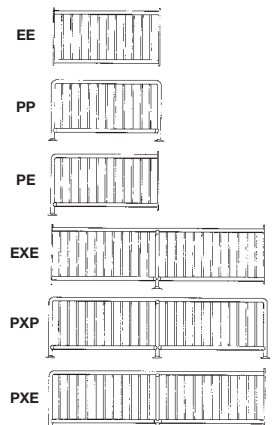
Item Description

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

Hand Rail System



Pipe Picket Railing Design Selections





Consider the advantages:

- Strong, Durable, and Functional Design
- No Painting – No Rusting
- Unlimited Design Options
- Quick & Easy Installation Without Welding
- Saves on Installation and Maintenance Labor

**Quick & Easy
Installation.
No Welding
Required!**

Plus, the possibilities for contractors, builders & architects:

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

Component Parts

For Series 500 Pipe Railing & Series 550 Pipe Picket Railing

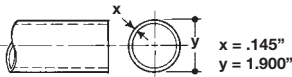
No. 5B Picket



Note: Also available with a .112" wall thickness (x)

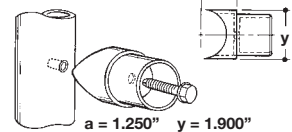
No. 500

1-1/2" Schedule 40 Pipe - 24"

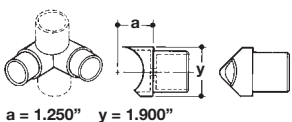


Note: Same material used for posts.

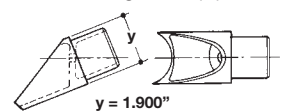
No. 502 Tee (A)



No. 503 Corner Tee (B)

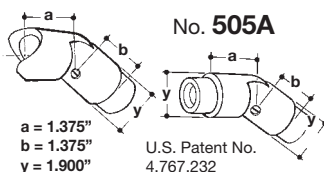


No. 504 Angle Tee (C)



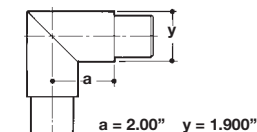
Specify Required Angle (0° - 41°)

No. 505 Adj. Angle (0° - 38°)

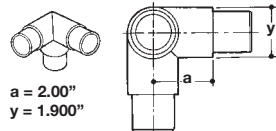


U.S. Patent No. 4,767,232

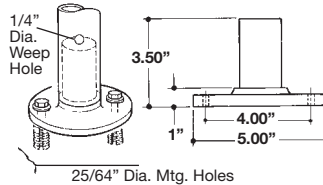
No. 506 90° Miter Elbow



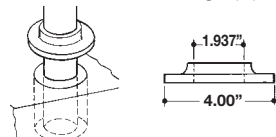
No. 507 90° 3-Way Elbow (F)



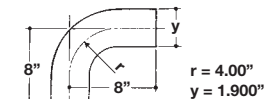
No. 508 Floor Flange (G)



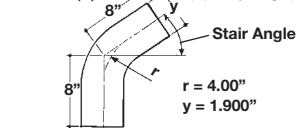
No. 509 Cover Flange (H)



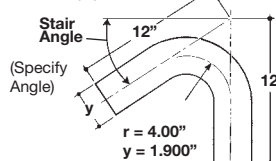
No. 510 90° Radius Elbow (I)



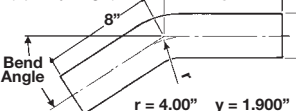
No. 511 Bottom Step Elbow (J)



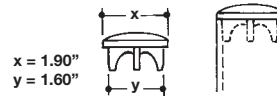
No. 512 Top Step Elbow (K)



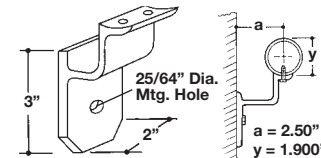
No. 513 Rail Elbow (L)



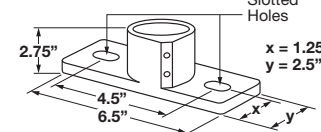
No. 514 Post Cap



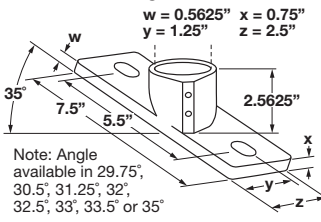
No. 515 Wall Bracket



No. 516L Base

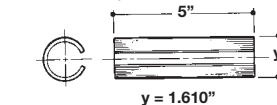


No. 516S Angle Base

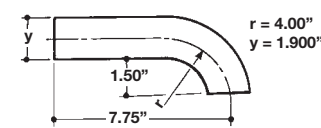


Note: Angle available in 29.75°, 30.5°, 31.25°, 32°, 32.5°, 33°, 33.5° or 35°

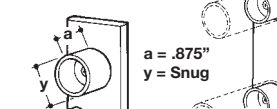
No. 517 Splice



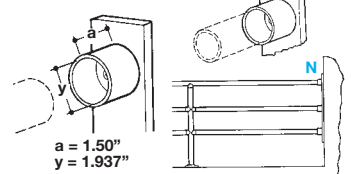
No. 519 Wall Return Bend



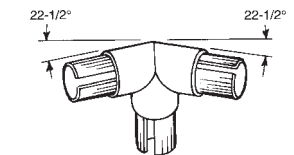
Wall Plate with No. 520 Brackets



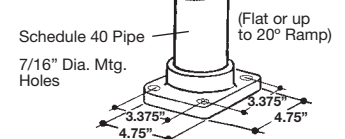
Wall Plate with No. 521 Adj. Brackets (N)



No. 522 135° 3-Way Elbow

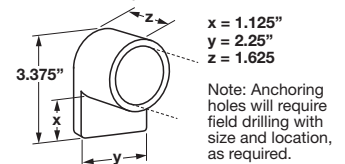


No. 523 Heavy Duty Base Welded to Post



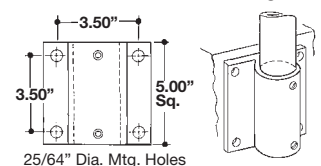
Note: Set screws can be used on bases in lieu of welding.

No. 539 Adjustable Wall Bracket

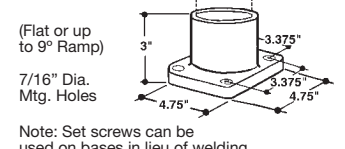


Note: Anchoring holes will require field drilling with size and location, as required.

No. 540 Side Mount Flange



No. 541 Heavy-Duty Base Welded to Post

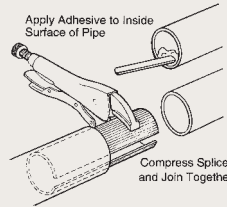


Note: Set screws can be used on bases in lieu of welding.

Easy Assembly and Installation! No welding required.

Railing Splices

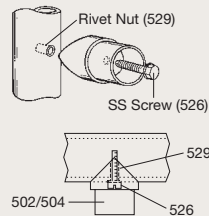
Railing splices are designed for a tight press fit and must be compressed with a pliers to permit them to slip into the pipe. The areas to be joined should be cleaned thoroughly. Mix adhesive according to manufacturer's directions. Mix only enough that you can use within 1/2 hour. Apply adhesive to inside 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 & Hardware Options

To attach a 502 tee or 504 angle tee to a post, a stainless steel screw (526) is positioned through the fitting and into a stainless steel rivet nut (529) in the tubular post. **Note: A stainless steel rivet nut CANNOT be used at any location mounting into a reinforcement rod.**

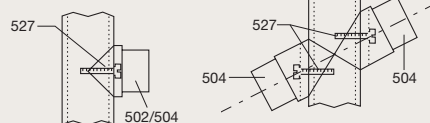
Attachment of tee fitting to post



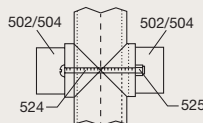
Parts Description

- 502 - Tee Fitting
- 504 - Angle Tee Fitting
- 524 - S.S. Thru Bolt (1/4" x 3-14")
- 525 - S.S. Locknut
- 526 - S.S. Screw (1/4" x 1-14")
- 527 - S.S. Screw (1/4" x 1")
- 529 - S.S. Rivet Nut

Attachment of tee fitting to post in a location with a reinforcement rod



Attachment of tee fittings that form a cross at 12° or less in a location with or without reinforcement rods

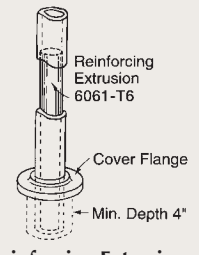


When mounting a 502 tee or 504 angle tee into a location with a reinforcement rod, a stainless steel screw (527) must be used.

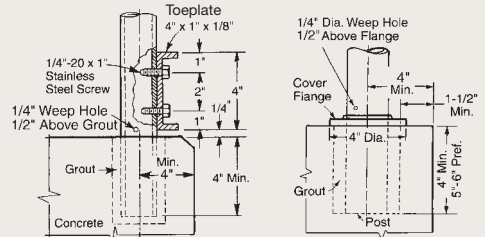
When two tees (502 tee or 504 angle tee) are located directly opposite each other to form a cross at 12° or less, a stainless steel thru bolt (524) and locknut are used. **Note: This method can be used in locations with or without reinforcement rods.**

Mounting Options

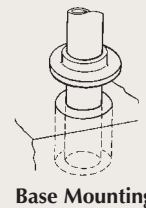
Pipe or picket railing can be embedded in concrete and grouted, or mounted on decks and platforms with base flanges, or side-mounted on fascia or stringer by means of fascia flanges.



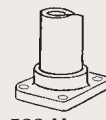
Reinforcing Extrusion



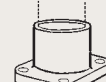
Toeplate



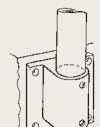
Base Mounting



523 Heavy-Duty Base



541 Heavy-Duty Base



540 Side Mount Flange

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 6063-T6 extruded aluminum alloys, except where there are formed elbows, whereby 6063-T4 is used. All pickets are 3/4" round, formed and extruded from 6063-T5 aluminum. All railing accessories shall be cast from industry standard aluminum alloys according to

the requirements of the application. All baked-on enamel and anodized finishes adhere to the specifications set forth by the American Architectural Manufacturers Association.

RIGIDITY -

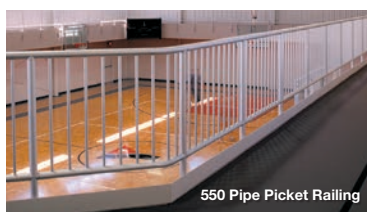
Post spacing shall not exceed 6' 0" center-to-center. All posts will be unspliced single pipe length. Lower rails shall be a single unspliced length between posts. All top rails shall be continuous whenever possible. All fasteners shall be tightened so that completed railing is rigid and free of play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

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.

SCOPE OF WORK -

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



Ask about our complete line of Superior Aluminum Products:

- Aluminum Columns – Round (Fluted) & Square (Fluted, Smooth, Panel)
- Fiberglass Columns – Round & Square
- Series 2000 Aluminum Cable Railing
- Series 600 Custom Residential Railing & Columns
- Series 7000 Aluminum Picket Fence & Custom Gates
- Series 9000 Heavy-Duty Aluminum Railing

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