Superior Series 9000 Heavy-Duty Aluminum Railing offers the finest design features available on the market today. The highest quality aluminum alloy extrusions are used to provide maximum strength and support where it is needed most – in your installation.

Superior Heavy-Duty Railing utilizes all the advantages of aluminum: strong, durable, and rust- and corrosion-free. These characteristics make it a practical, sound investment for the budget-minded buyer.

The smart, contemporary design is an added plus. Our unique, no-weld design utilizes simple, cast aluminum fittings or machined openings for a no-hassle, easy installation.

Superior Heavy-Duty Railing can be found wherever clean design and safety are a must. It is an excellent choice for condominiums, apartments, hotels, churches, schools, commercial buildings and homes.

To make our railing even more versatile, decorative columns, inserts, and scrolls are available.

Superior Railing is available in any height. Standard heights include 42” for commercial railing, 36” for residential railing, and 72” for pool railing. Superior railing comes in standard 6’ lengths, as well as custom lengths, in 2-line or 3-line styles. Ordering standard 6’ lengths reduces lead times and cost.

Concealed Picket Screws
Series 9000 Heavy-Duty Railing features a screw cover to conceal picket screws on top and bottom rail assemblies for a cleaner, more streamlined look.

**Superior 9000 and 9900 Railing**

Series 9000 Heavy-Duty Railing features machined post openings on level and ramp railing, eliminating the need for brackets. The result is a clean, rigid design with added strength. If railing is angled horizontally, the angle must be specified so the proper openings can be machined into the post. **Swivel brackets are required for step rail applications.** The top rail has a 2” wide gripping surface which meets all safety criteria. The machined post openings and assembled sections (standard 6’ length or custom length) facilitate quick turn-around and overall savings for the customer.

9000 RAILING
Features 21/2” square posts, 3/4” square pickets, and 905 top rail.

9900 RAILING
Features 21/2” square posts, 3/4” x 3/4” square pickets, and 905 top rail.

**Finishes**
Smart, decorative finishes add a distinctive touch. Whether baked-on enamel, anodized, or duranodic, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.

**Top Rail Selections**

<table>
<thead>
<tr>
<th>Top Rail</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>901 Top Rail</td>
<td>21/2” w x 15/8” h</td>
</tr>
<tr>
<td>902 Top Rail</td>
<td>2” w x 4” h</td>
</tr>
<tr>
<td>905 Top Rail</td>
<td>2” w x 15/8” h</td>
</tr>
</tbody>
</table>

**Note:** All top rail (901, 902, 905), posts (2”, 21/2”, 4”), and pickets (3/4” square, 3/4” x 3/4”) are interchangeable.

Superior 9000 and 9900 Railing meets OSHA, ICC, and ADA criteria.
Railing Style Systems
Superior offers a variety of styles to fit any application.

Customize your look!
Top rail, bottom rail, pickets, and posts are interchangeable for a completely custom look.

Interchangeable Top & Bottom Rail
All 901, 902, and 905 top rails are interchangeable. Standard 903 bottom rail can be substituted with 902 top rail. See examples of 9000 Rail below.

Interchangeable Post
All 2" or 2 1/2" square posts can be substituted with a 4" square post.

Note:
3/4" sq. pickets and 3/4" x 1 1/2" pickets are also interchangeable.

Machined post openings are available for 2 1/2", and 4" square posts. A 4" machined post opening is shown above.

In the 9000 rail application above, 4" square posts are used for the end posts and a 2 1/2" square post is used for the crossover post.

www.superioraluminum.com
9000 Railing
Well-crafted lines
Superior Series 9000 Railing features well-crafted lines and an attractive, innovative design that lends itself well to almost any commercial, industrial, or residential application. Its beauty, strength and durability will enhance the quality of your construction project.

9900 Railing
Clean, rigid design
Superior Series 9900 Railing offers all the features of Series 9000 Railing, with the addition of 1 1/2" wide pickets. This robust alternative results in a strong, rugged design with a clean, refined appearance.
Continuous Top Rail

Unlike some other railing companies, Superior manufactures crossover posts for your rail system. The advantage of using these posts is a continuous top rail surface. Not only is this feature attractive, but it also allows for an uninterrupted gripping surface.

Easy Assembly and Installation!

Series 9000 Railing is not only easy to assemble and install, but the machined post openings and factory assembled sections facilitate quick turn-around and cost savings.

All level and ramp posts are machined with openings to receive the top and bottom rails. As assembled railing is inserted into the openings, a rail wedge located in the bottom rail will ensure proper insertion of 1 1/4" inside the post.

Predrilled rail tabs are provided with the post to connect the top rails. If a railing section or sections need to be shortened, simply saw an equal amount from each railing end with the use of a miter or circular saw. Reinstall and tighten the rail wedge using an 1/8" Allen Wrench on the bottom rail so 1 1/4" protrudes through the post openings. Next, connect the two top rails together with a rail tab, and drive the post cap in place with a rubber mallet.
**Assembly Identification**

**SERIES 9000**

1. 990 2 1/2” Tube .075” Wall
2. 957 Base Assembly
3. 950 Cap
4. 956 Bottom Rail Swivel Assem.
5. 955 Top Rail Swivel Assem.
6. 901 Top Rail 2” w x 1 5/8” h
7. 905 Top Rail 2 1/2” w x 15/8” h
8. 902 Top Rail 2” w x 4” h
9. 903 Bottom Rail
10. 904 Bottom Rail (A)
11. 908 Screw Cover
12. 910 8-32 Binder Bolt
13. 911 Picket Screws
14. 914 Rail Wedge
15. 915 5/32” Dia. Rivets
16. 919 Crossover Post
17. 921 8-32 Rail Tab
18. 922 8-32 5/32” Dia. Rivets
19. 923 Rail Wedge

**Base Options**

A variety of base options are available to fit any installation requirements. Series 9000 Railing can be base mounted with wedge-type or heavy-duty bases, side mounted with brackets, or embedded into concrete using an elongated post with a slip-over base.

- **Wedge Base**
  - 917 / 957 / 968

- **Side-Mount Base**
  - 975 / 977

- **Side-Mount Corner Base**
  - 976 / 998

- **Heavy-Duty Base**
  - 972 / 973 / 974

- **Slip-Over Base for Embedded Posts**
  - 919 / 920

**Design Selections**

**Straight Rails**

**Step Rails**

**Component Parts**

A variety of base options are available to fit any installation requirements. Series 9000 Railing can be base mounted with wedge-type or heavy-duty bases, side mounted with brackets, or embedded into concrete using an elongated post with a slip-over base.
**Parts Description**

**RAILS**

901  Top Rail - 2\(\frac{1}{2}\)" w x 1\(\frac{3}{4}\)h  
18' & 24' Lgths.
902  Top Rail - 2" w x 4" h  
18' & 24' Lgths.
903  Bottom Rail (Sq. Hole)  
1\(\frac{5}{8}\)" w x 3\(\frac{1}{4}\)h, 18' Lgths.
904  Bottom Rail (Rect. Hole)  
1\(\frac{5}{8}\)" w x 3\(\frac{1}{4}\)h, 18' Lgths.
905  Top Rail - 2" w x 1\(\frac{3}{8}\)h  
18' & 24' Lgths.
907  Screw Cover (For Top & Bott. Rail)  
18' Lgths.
909  Bottom Rail (1\(\frac{1}{2}\) w Hole),  
18' Lgths.

**FASTENERS**

310  Rail Tab Screw
911  Picket Screws
912  Rail Bracket Binder Bolt
915  Post Bracket Rivet \(\frac{5}{32}\)"

**POSTS & PICKETS**

98  Picket \(\frac{3}{4}\)" Sq. - 4\(\frac{1}{2}\) Centers
9C  Picket \(\frac{3}{4}\)" Sq. - 6" Centers
9D  Picket \(\frac{3}{4}\)" x 1\(\frac{1}{2}\)
90  Wall Plate
91  End Post (Brackets)
91M  End Post (Machined Openings)
92  Swivel Post
93  Crossover Post (Brackets)
93M  Crossover Post (Machined Openings)
94  Bottom Step Post
95  Section Post (Brackets)
95M  Section Post (Machined Openings)
96  Top Step Straight Post (Brackets)
96M  Top Step Straight Post (Machined Openings)
97  Intermediate Step Post
98  Corner Post (Brackets)
98M  Corner Post (Machined Openings)
99  Top Step Corner Post (Brackets)
99M  Top Step Corner Post (Machined Openings)

Specify Railing Height: 32", 36", 42" or 48"

**BASES**

917  Wedge Base for 4" Post
919  2" Slip Over Base
920  2\(\frac{1}{4}\)" Slip Over Base
957  Wedge Base for 2\(\frac{1}{2}\)" Post
968  Wedge Base for 2" Post
972  Heavy-Duty Base for 4" Post
973  Heavy-Duty Base for 2\(\frac{1}{2}\)" Post
974  Heavy-Duty Base for 2" Post
975  Side Mount Brkt. for 2\(\frac{1}{2}\)" Post
976  Corner Side Mount Brkt. for 2\(\frac{1}{2}\)" Post
977  Side Mount Bracket for 2" Post
978  Corner Side Mount Brkt. for 2" Post

**TUBING**

990  2\(\frac{1}{4}\)" Sq. - 16' white only & 18' Lgths.
377  2" Sq. - 16' white only & 18' Lgths.
380  4" Sq. - 16' Length

**CAST FITTINGS**

730  Cap for 4" Post
906  17" Heart Scroll
908  Picket Collar
913  Internal splice for #905 Top Rail
914  Post Ball Cap for 4" Post with  
4" Diameter Ball
921  \(\frac{3}{4}\)" Square Picket Base
922  \(\frac{3}{4}\)" x 1\(\frac{1}{4}\)" Picket Base
923  Rail Wedge
924  Rail Tab
930  Cast "X" Insert (4" Opening)
932  Cast Picket Spear - 4" High
933  2-Way Swivel Bracket - 2"
935  \(\frac{3}{4}\)" OD Double Ring
936  Hanging Rail "L" Brackets
937  \(\frac{3}{4}\)" Cast Diamond
938  Angle Crossover Cap for 2" Step Post
939T  Adj. End Fitting (for 905)
940  End Brkt. for Top & Bottom Rail
940B  End Brkt. for #903 Bottom Rail
940C  End Brkt. for 901 Top Rail Only
941  17" Cast "Fleur De-Lis" Insert
942  Cap for 2" Post
943  Post Ball Cap for 4" Post with  
2\(\frac{1}{2}\) Diameter Ball
946  Adj. End Brkt. Top (for 902)
947T  Adj. End Fitting Top (for 901)
947B  Adj. End Fitting Bottom
949  End Bracket for #902
950  Cap for 2\(\frac{1}{2}\)" Post
951  Post Ball Cap for 2\(\frac{1}{2}\)" Post
952  Top Rail Hinge 2\(\frac{1}{2}\)" w
953T  2-Way Swivel Bracket - 2\(\frac{1}{2}\)
953B  2-Way Swivel Bottom
954  Horiz. Swivel Brkt. Top - 2\(\frac{1}{2}\)
954B  Horiz. Swivel Brkt. Bottom
955  Vertical Swivel Top 2\(\frac{1}{2}\)" w
956  Vertical Swivel Bottom
958  Angle Ramp Plate
959  Vertical Swivel Top 2" w
960  Crossover Cap for 2" Post
962  Top Rail Hinge 2" w
963  Top Rail Corner 2" w
964  Top Rail Corner 2\(\frac{1}{2}\)" w
965  Crossover Cap for 2\(\frac{1}{2}\)" Post
966  Crossover Cap for 2\(\frac{1}{2}\)" Post (Flat)
969T  Horiz. Swivel Brkt. Top - 2" w
970  Angle Crossover Cap for 2\(\frac{1}{2}\)" Step Post
971  Crossover Cap for 4" Post
978L  Wall Return - LH for #905 Top Rail
978R  Wall Return - RH for #905 Top Rail
979  End Cap for #905 Top Rail
980  End Cap for #901 Top Rail
981  End Cap for Bottom Rail
982  End Cap for #902 Top Rail
983  Lambs Tongue for #901 Top Rail
984T  Horizontal Swivel for #902
985  Wall Brkt. for Handrail
986  Lambs Tongue for #905 Top Rail
988  90" Double Swivel for #905 Top Rail
989  Post Ball Cap for 2" Post
992  Post Finial for 2\(\frac{1}{2}\)" Post
993  Cast Rose Snap-on Picket Insert
994  Cast Grape Snap-on Picket Insert
995  Cast Oak Snap-on Picket Insert
997  Cast "X" Insert (6" Opening)

www.superioraluminum.com
Superior Aluminum manufactures attractive gates with custom locks upon request.

Ask about our extruded X-Pattern System (shown above and to the left) and cast aluminum X-Inserts (shown below).

Ask about Series 2000 Cable Railing for a contemporary look.

Superior Aluminum offers a variety of custom applications. These include, but are not limited to, attractive gates with custom locks, cast aluminum X-Inserts, an extruded X-Pattern System, and custom rail lengths and heights. Call Superior Aluminum to discuss your needs.

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 500 Non-Welded Aluminum Pipe Railing
• Series 550 Non-Welded Aluminum Pipe Picket Railing
• Series 600 Custom Residential Railing & Columns
• Series 7000 Aluminum Picket Fence & Custom Gates
• Series 9100 Architectural Aluminum Railing

MATERIALS - (For 9000, 9900 Railing)
All rails, posts, and pickets shall be formed from 6063-T5 & 6063-T6 extruded aluminum alloys. All railing accessories shall be cast from industry standard aluminum alloys according to the requirements of the application. All exposed fasteners used in the system shall be aluminum or stainless steel.

INSTALLATION -
The railing system can be either base mounted, side mounted or embedded into concrete.

Pickets shall run between the top and bottom rail.

(For 9000 Railing)
Pickets shall be 3/4” square on 4 1/2” centers.

(For 9900 Railing)
Pickets shall be 1 1/2” x 3/4” on 5 1/4” centers.

The railing system will adapt to step railing requirements by providing the riser and tread dimensions of the steps and specifying a rectangular hole in the bottom rail.

SCOPE OF WORK -
Aluminum railings as shown on drawings shall be Superior Series 9000 Heavy-Duty Aluminum Railings, as manufactured and supplied by Superior Aluminum Products, Inc., Russia, Ohio 45363.

Series 9000 Railing meets federal safety requirements as determined by an independent testing laboratory. Test results available upon request. Superior Series 9000 Railing is protected by US Patent #3707276.
Embracing form and function in a sleek, modern design.

www.superioraluminum.com
Superior Series 9100 Architectural Aluminum Railing embraces both form and function with its high-style, modern aesthetics and innovative, sensible design.

The sophisticated and refined railing system features a sleek, continuous top rail, concealed fasteners and seamless transitions around corners, creating a high-end, custom look.

Whether your preference is for the bold, dramatic lines or the practicality of an uninterrupted graspable handrail, Series 9100 is an excellent choice for both residential and commercial applications, alike.

Series 9100 Railing utilizes all the advantages of aluminum, where strength, durability and no-paint maintenance are key. In addition, the highest quality aluminum alloy extrusions are used to provide maximum strength and support where it’s need most – in your installation.

Series 9100 Railing is available in any height. Standard heights include 42” for commercial railing and 36” for residential railing.

Series 9100 Railing can be embedded in concrete, surface mounted or side-mounted, and is factory assembled in lengths up to 18’, making for easy, no-hassle installations.

**Finishes**
Whether baked-on enamel, anodized or duranodic, the smart decorative finishes are guaranteed to endure for years of continued service and maintenance-free beauty.

**Series 9100 Railing meets OSHA, ICC and ADA criteria.**

**Railing Style Systems**

**Standard Top Rail**

**Open Double Top Rail**

**Double Top Rail with Through Pickets**

**Double Top Rail with Inserts**

**Hand Rail Applications**
Superior Series 500 Pipe Railing is used for Series 9100 hand rail applications. Pipe rail can be mounted separately (as shown in photo to left) or can be mounted directly to the railing with brackets and a through bolt (see photo inset).
Series 9100 Features

**Continuous Top Rail**
Series 9100 Railing features a sleek, continuous top rail, ingeniously designed with concealed fasteners to create a continuous graspable handrail and clean, dramatic lines.

**Seamless Rail Transitions**
Series 9100 Railing seamlessly transitions around corners and from horizontal to ramp or step railing with no interruption to the top rail surface for continuous smooth lines and a modern, upscale look.

*Note: Custom transition parts can be manufactured in any custom angle to meet your requirements.*

**Machined Post Openings**
Machined post openings receive center and bottom rails, eliminating the need for brackets, which results in a clean, rigid design with added strength.

Rail wedges, located in the underside of the rails will ensure proper insertion of 1” inside the post.

*Note: If railing is angled horizontally or vertically, the angle must be specified so the proper openings can be machined into the post.*

**Concealed Hardware**
Series 9100 Railing is assembled using concealed fasteners that attach to the inside of the top rail. The fasteners slide inside the posts until the top rail rests in the notched openings.

A railing splice can also be used to connect top rails more than 18’ in length.

Series 9100 Railing is also equipped with screw covers, used to conceal picket screws on top and bottom rail assemblies for a clean, streamlined look.
Custom Aluminum Gates
Attractive aluminum gates with standard or custom security locks are available for Series 9100 Railing. The durable, welded gates can be designed in any size or configuration and arrive completely assembled for easy installation. Please call Superior Aluminum to discuss your needs.

Mounting Options
A variety of mounting options are available to fit any installation requirements. Series 9100 Railing can be base mounted with wedge-type or heavy-duty bases, side mounted with brackets or embedded into concrete using an elongated post. End fittings for the top and bottom rail are also available for applications where the railing system meets a wall.

Series 9200

Herringbone Aluminum Railing
Call Superior Aluminum for details about this exciting new product!

MATERIALS -
All rails, posts and pickets shall be formed from 6063-T5 & 6063-T6 extruded aluminum alloys. All railing accessories shall be cast from ANSI 713 alloy. All fasteners used in the system shall be aluminum or stainless steel.

INSTALLATION -
The railing system can be either base mounted, side mounted or embedded into concrete. Pickets shall run between the top and bottom rail. Pickets shall be 3/4” square on 4 1/2” centers or 1 1/2” x 3/4” on 5 1/4” centers.

The railing system will adapt to step railing requirements by providing the riser and tread dimensions of the steps and specifying a rectangular hole in the bottom rail.

SCOPE OF WORK -
Aluminum railings as shown on drawings shall be Superior Series 9100 Architectural Aluminum Railings, as manufactured and supplied by Superior Aluminum Products, Inc., Russia, Ohio 45363.

Series 9100 Railing meets federal safety requirements as determined by an independent testing laboratory. Test results available upon request. Superior Series 9100 Railing is protected by US Patent #3707276.
Versatile Railing & Columns for Residential Use

www.superioraluminum.com
Superior Series 600 Custom Aluminum Railings offer the most design features for the residential or low rise, garden-type apartment market. High quality aluminum extrusions and castings are used to provide maximum strength and support.

The Series 600 streamlined design presents an attractive appearance, while still maintaining the advantages of aluminum—strong, durable, and rust-free. These characteristics make aluminum railings a practical, sound investment for any owner concerned about overall cost.

Superior Series 600 Railings are custom-made to your specifications, and are available in heights from 32” to 42”. This railing can be purchased factory assembled, or it can be purchased K-D and assembled at the jobsite.

Consider the Advantages

**Versatility** – Complete range of sizes, three picket patterns and a wide variety of scrolls.

**Durability** – All aluminum construction, plus electrostatic painting or anodizing.

**Easy Installation** – Unique, no-weld design, utilizing cast aluminum fittings.

**Standard Railing** – Available in 32”, 36” or 42” heights.

**Step Rails** – Furnished with swivel fittings - will adjust to any step angle.

Specify Superior Aluminum columns, inserts, and scrolls to add even more versatility to the Series 600 Railing.
Select the railing designs and picket pattern to suit your needs.

**Finishes**
Seven decorative finishes add a distinctive touch to any building. Whether baked-on enamel or anodized, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.

- Satin Anod.
- White
- Almond
- Sandstone/Clay
- Light Bronze
- Dark Bronze
- Black

**Specifications**

**MATERIALS** - All rails and posts shall be formed from 6063-T6 extruded aluminum alloys. All railing accessories shall be cast from ANSI 713 alloy. All exposed fasteners used in the system shall be aluminum or stainless steel.

**INSTALLATION** - The railing system shall consist of 1-1/2” square posts that can be either base mounted or embedded into concrete. The top rail shall be a minimum 1-1/2” wide and the bottom rail a minimum of 1-3/8” wide. Pickets shall be 1/2” square on approximately 6”, 4”, or 3” centers and shall run between the top and bottom rail. The rail shall be continuous lengths up to 16’. The railing system will adapt to step railing requirements by specifying a rectangular hole in the bottom rail.

**SCOPE OF WORK** - Superior Series 600 Railing shall be manufactured and supplied by Superior Aluminum Products, Inc., 555 E. Main St., Russia, Ohio 45363.

**Design Selections**

**Step Rails**
- PES
- EXES
- LXXES
- LXXPS
- Hand Rail System

**Straight Rails**
- EE
- EXE
- EXES
- LXXE
- PXP
- PXPS
- PXES
- LXXPS

**Series 600 Railing with Superior Round Fluted Columns.**
Superior Aluminum Decorative Columns for Beauty and Strength

Use Superior Aluminum Columns to add architectural interest to any home, apartment, or small commercial building. Period or contemporary. Old or new world look. There’s a Superior column design to meet a wide spectrum of needs and tastes.

The delicate beauty of Superior Aluminum columns belies their rugged strength. A standard (8’) 1-1/2” flat column, for example, can support up to 2,500 lbs. A 1-1/2” standard height corner column can support up to 6,500 lbs. With Superior Aluminum Columns you get elegance and strength combined.

To order, use the numbers shown below. The even numbers (302, 304, etc.) are for flat columns. Odd numbers (303, 305, etc.) are for corner columns.

Superior Series 900 Railing with Series 600 Decorative Columns

Ten Attractive Designs

All columns shown above are available in 1” square extruded tube by 8” wide overall and in 1-1/2” square extruded tube by 9” wide overall. The 352/353 and 354/355 designs are also available in 1-1/2” square extruded tube by 12” wide overall and available with 2” or 2-1/2” square tubing.

Standard columns are fabricated 8 ft. high with top and bottom brackets. Custom heights are available as required. The 9” columns are available in all colors, while the 8” columns are available in white, black and mill.
Strong, Durable, and Maintenance-Free!

www.superioraluminum.com
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.

Part Applications

### Series 500 Pipe Railing

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>502</td>
<td>Tee</td>
</tr>
<tr>
<td>503</td>
<td>Corner Tee</td>
</tr>
<tr>
<td>507</td>
<td>90° Three-Way Elbow</td>
</tr>
<tr>
<td>521</td>
<td>Wall Plate with Adj. Brackets</td>
</tr>
<tr>
<td>523</td>
<td>Heavy-Duty Base with Post</td>
</tr>
</tbody>
</table>

### Series 550 Pipe Picket Railing

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<td>Heavy-Duty Base with Post</td>
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</tbody>
</table>

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

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. 507 90° 3-Way Elbow (F)
No. 508 Floor Flange (G)
No. 509 Cover Flange (H)
No. 510 90° Radius Elbow (I)
No. 515 Wall Bracket
No. 516S Angle Base
No. 517 Splice
No. 519 Wall Return Bend

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

No. 522 135° 3-Way Elbow

No. 523 Heavy Duty Base Welded to Post

No. 539 Adjustable Wall Bracket

No. 540 Side Mount Flange

No. 541 Heavy-Duty Base Welded to Post

www.superioraluminum.com 36
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.

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.

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.
Superior Series 2000 Cable Railing is the perfect complement to any architectural design, indoors or out. It adds a truly modern and contemporary feel to any building and is an excellent choice for settings with a view.

It lends itself well to residential, commercial or public buildings, high-rises, condos, apartments, motels, balconies, parking decks, public walkways, backyard decks or any area where a contemporary look or a virtually unobstructed view is desired.

The stainless steel cables combined with aluminum post and rail assemblies make for a strong, durable and maintenance-free system that will last for a lifetime of use.

The cable is 3/16” 1x19 Type 316 stainless steel cable. This type of cable has extremely high tensile strength and is constructed from 19 strands to prevent stretching.

The posts are 2 1/2” square and can be surface mounted, side mounted or embedded into concrete. The top rail has a 2” wide gripping surface to meet federal, state and local codes.

Posts used in the cable rail system include double end posts, triple corner posts, single crossover posts and intermediate tension posts. Each post has a vertical row of pre-drilled holes, spaced 3” on center, to accommodate fittings or support the cable.

End, corner, crossover and intermediate tension posts can be spaced up to 4 1/2’ (54”) on center. Cable spans should not exceed this distance to minimize deflection.

For step railing, the exact degree of slope is needed prior to fabrication so pre-drilled holes can be elongated to accommodate the angle and ensure that the cable runs in a straight line.

Superior Cable Railing is available in any height. Standard heights include 42” for commercial and 36” for residential.

Gates are available upon request.

**NEW! Concealed Picket Screws**

A new product design for Superior Railing features a screw cover to conceal picket screws on top and bottom rail assemblies for a cleaner, more streamlined look.

**Machined Post Openings**

Posts feature machined openings to accept top and bottom rails. This eliminates the need for brackets, resulting in a clean, rigid design with added strength.

**No Bulky Fittings!**

When installed, fittings and tensioning devices are hidden inside the post with only the head exposed.

**Finishes**

Smart, decorative finishes add a distinctive touch. Whether baked-on enamel, anodized or duranodic, these finishes are guaranteed to endure for years of maintenance-free beauty.

**Stainless steel cable runs through posts with minimal fittings for a sleek, modern look.**

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**Superior Series 2000 Cable Railing**

**Modern Styling with a Virtually Unobstructed View!**

Meets OSHA, ADA and ICC safety criteria.
Easy Assembly & Installation

Post and rail configurations are delivered pre-assembled with cables pre-threaded, except where shipping limitations prevent it. For any un-assembled sections, simply insert top and bottom rails into machined post openings, locate the positions for the posts and fasten down the hand rail system.

Un-assembled cables will come cut to length with fittings already swaged on. Each cable end will be fitted with either a clip-on stop or a tension stud.

Feed the cable, clip-on stop end first, through the pre-drilled holes in any intermediate posts towards the end post with 1/4” pre-drilled holes.

Feed the cable through the end post and slide the washer over the body of the tension stud.

Place the U-shaped clip into the slot in the stop.

Pull the cable back through the hole, until the washer stops against the post, with the clip resting in the recess of the washer.

Attach a spring clamp on the cable next to the post to keep the clip-on stop end of the cable tight. This will prevent the washer and U-shaped clip from falling off until the tension end is tightened.

Repeat these steps for each cable until all spring clamps are attached.

Next, install the tension ends of each cable. Slide the black washer over the body of the tension receiver, then feed the receiver through the hole in the back of the post with 1/2” pre-drilled holes.

Feed the tension stud through the end post to meet the receiver. By hand, screw the receiver onto the tension stud at least 6 full turns.

Do not tension the cables completely until all the cables have been installed between the end posts.

Repeat these steps until each cable has been hand tightened.

Tensioning the Cable

After all cables have been installed, tension each cable to approximately 400 lbs.

Follow recommended tensioning sequence diagram, beginning with the cable nearest the center of the post.

Lock the cable gripping pliers on the cable approximately 1/4” from the post to prevent the cable from twisting and insert Allen Wrench into the tension receiver.

Next, place the tension gauge on the cable you are tensioning with the cable running between the two nylon spools. Pull the lanyard downward until the nylon slider can be hooked on to the cable.

Read the needle position on the scale and refer to the calibration table to determine the tension. The gauge can be left on the cable for “hands free” adjustment.

Hold the cable gripping pliers with one hand and turn the Allen Wrench with the other until the correct tension is achieved.

Go back and double check the tension of each cable, as tensions may change as each cable is continuously tightened.

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**Cable Railing Tool Kit**

Each cable order comes with a 3/16” Allen Wrench with socket drive (A), a tension gauge (C) a cable gripping pliers (D) and 11 spring clamps (B).
**Tan / Wicker**
Columns, Railings & Fence

**Almond**
Columns, Railings & Fence

**Satin Anodized**
Railings & Fence only

**Light Bronze**
Railings & Fence only

**Sandstone / Clay**
Columns, Railings & Fence

**Brown**
Columns, Railings & Fence

**Green**
Railings & Fence only

**Dark Bronze**
Railings & Fence only

**Black**
Railings & Fence only

**White**
Columns, Railings & Fence

**DISCLAIMER:** While every effort has been made to ensure color accuracy in this printed piece, there may be subtle differences when compared to the actual product. If an exact match is required, please request a product sample.