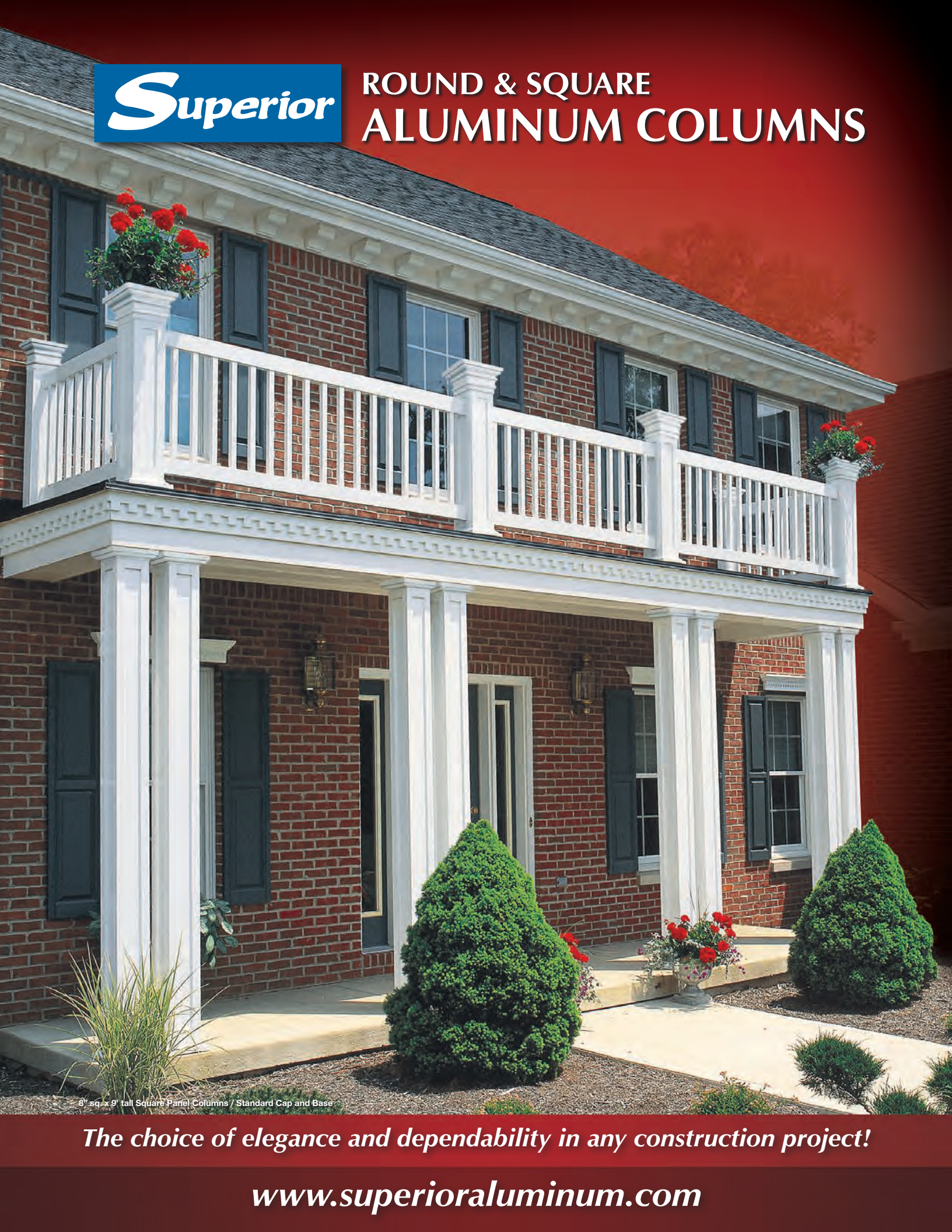




**Aluminum
Products, Inc.**

Columns • Railings • Fence

A two-story brick house with a white balcony and columns. The house has red brick walls, dark shutters, and a white balcony with a decorative railing. The columns are white and square, supporting the balcony. The house is set against a red background.

Superior

ROUND & SQUARE ALUMINUM COLUMNS

8" sq. x 9' tall Square Panel Columns / Standard Cap and Base

The choice of elegance and dependability in any construction project!

www.superioraluminum.com

Superior Aluminum columns bring traditional elegance to your project at an affordable price. They are ideal for both new construction and remodeling projects in the commercial and residential markets. Made from sturdy, maintenance-free aluminum, Superior columns ensure a long-term upgrade to your building.

Available in four unique styles with a wide variety of caps and bases to choose from, Superior columns complement any facility.

Load-Bearing

■ Superior Aluminum columns can be utilized to provide load-bearing support for covered structures such as balconies, walkways, porches, and more!

■ The support offered by aluminum columns is immense: a 6" by 8' column can in itself be fully load-bearing up to 13,000 pounds, and larger sizes can hold up to 75,000 pounds!

■ Superior Aluminum columns combine the load-bearing qualities of aluminum, with its aesthetic beauty to add a perfect finishing touch to any project.



Wrap-Around

■ Superior Aluminum columns are available with wrap-around functionality to cover existing structures.

■ Utilize wrap-around columns to revitalize a tired look!

■ Wrap-around columns come with snap-together, two-piece puzzle-lock or polymer caps and bases.



Industry's Largest Range of Sizes

The wide selection of Superior Aluminum column sizes guarantees you will find the column that fits your project, be it a typical 6" x 8' column for a residential porch, or a massive column up to 30' high to support a grand entryway. No other manufacturer has a wider selection than Superior.



6" sq. x 8' tall Square Fluted Columns
Standard Cap & Base with Series 9900 Railing



6" sq. x 8' tall Square Smooth Columns
Doric Cap & Base



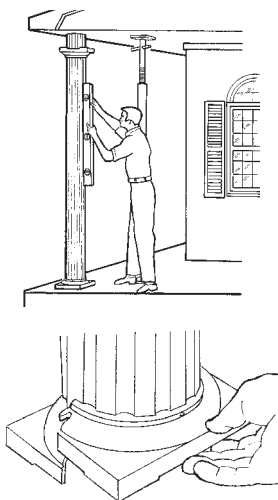
10" sq. x 8' tall Square Panel Columns
Standard Cap & Base



15" dia. x 12' tall Round Fluted Columns
Corinthian Cap & Doric Base

Easy Assembly

- Superior Aluminum columns assemble easily enough for one person to be able to handle.
- Simply cut the column staves to size and lock them into place.
- Slip on the cap and base on regular columns, while on wrap-around columns, lock them together around the columns.
- Complete instructions are packaged with each column.



Paint

All aluminum columns, caps, and bases are supplied with a durable, PPG Duracron paint finish, in the colors shown below. A mill finish is also available if custom painting is desired.



*Brown is available ONLY for 6" and 8" round fluted and square fluted columns.
**Dark Bronze and Black are available ONLY for 4" square smooth columns and 6" and 8" square columns of all profiles.



Durability

- Superior utilizes the power of aluminum to create a column that will not rot, split, warp, or rust like other materials.
- Aluminum products require no maintenance.
- These traits ensure aluminum columns create a durable, worry-free addition to any project.



Superior

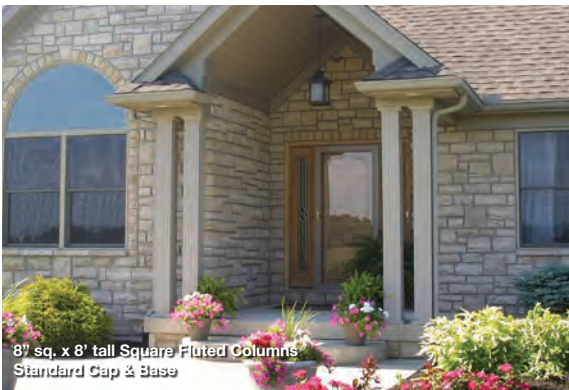
FLUTED ROUND COLUMNS

Superior Aluminum round fluted columns embrace the centuries-old tradition of round columns supporting incredible architecture. Unlike those columns of the past, aluminum columns provide a durable, maintenance-free touch of class that will impress for years to come.



Superior

FLUTED SQUARE COLUMNS



Superior Aluminum square fluted columns embrace the aesthetic benefits that wood columns provide, without the headaches. Square fluted columns will allow you to enjoy a natural look with minimal maintenance!



Superior

SMOOTH SQUARE COLUMNS



Superior Aluminum square smooth columns are the perfect way to add a sophisticated touch to your project, while maintaining a clean look and feel. Square smooth columns are the go-to choice for simplifying a project without sacrificing beauty and quality.



Superior

PANEL SQUARE COLUMNS



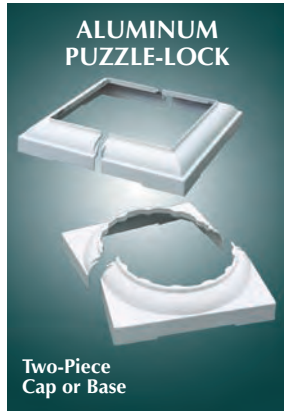
Superior Aluminum square panel columns combine the traditional look you desire with a unique panel design that adds a touch of contemporary flair to your project!



Cap and Base Options

ROUND & SQUARE COLUMNS

- Round and Square Fluted columns come with a selection of four distinct cap and base styles available in one-piece configurations.
- All styles are also available in two-piece versions for wrap-around applications.
- Cost-competitive polymer composite caps and bases are available to fit 6" and 8" diameter columns of all profiles.



PANEL COLUMNS

- 6" and 8" Square Panel columns feature "tabbed" caps and bases in the standard style.
- Tabbed caps/bases offer a cost competitive alternative to other panel cap/base options.
- Tabbed caps and bases cannot be used in wrap-around applications.



PANEL COLUMN INSERTS

- Should you desire to wrap-around an existing structure or desire a decorative style cap/base, additional panel inserts are required.



Frequently Asked Questions

QUESTION: What columns can be ordered in wrap-around versions?

ANSWER: All square columns (except 4" square smooth) are wrap-around and fully load-bearing by design, as are 6" and 8" round columns. Round columns 10" and larger can be modified where wrap-around applications are required. Any project requiring wrap-around columns will necessitate an order of wrap-around caps and bases as well.

QUESTION: How do I determine what diameter of column will look right for my project?

ANSWER: Architects will use a complex formula for this, but an easy rule of thumb is one inch of diameter for every foot of height. For buildings 300 feet or more off the road, increasing to the next larger diameter is recommended.

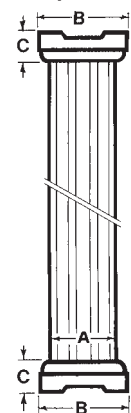
Aluminum Columns – Actual Dimensions

Size	Round			Square					
	Fluted			Fluted		Recessed Panel		Smooth	
	O.D.	I.D.	Max. Sq. Encased	O.D.	Max. Sq. Encased	O.D.	Max. Sq. Encased	O.D.	Max. Sq. Encased
4	-	-	-	4	3 ¹ / ₈	-	-	4	-
6	5 ⁵ / ₈	4 ³ / ₄	3 ¹ / ₂	5 ¹ / ₂	4 ⁵ / ₈	5 ¹ / ₂	4 ³ / ₁₆	5 ¹ / ₂	4 ⁹ / ₁₆
8	8	7 ¹ / ₈	5 ¹ / ₄	7 ¹ / ₂	6 ¹ / ₂	7 ¹ / ₂	6 ³ / ₁₆	7 ¹ / ₂	6 ¹ / ₂
10	10	8 ⁷ / ₈	6 ¹ / ₄	9 ¹ / ₂	8 ¹ / ₂	9 ¹ / ₂	8 ¹ / ₈	9 ¹ / ₂	8 ¹ / ₁₆
12	11 ¹ / ₄	9 ⁷ / ₈	6 ⁷ / ₈	11 ¹ / ₂	9 ³ / ₄	11 ¹ / ₂	10 ¹ / ₈	11 ¹ / ₂	10 ¹ / ₁₆
15	14 ³ / ₈	13 ¹ / ₈	9 ¹ / ₄	-	-	-	-	-	-
16	-	-	-	15 ¹ / ₂	13 ³ / ₄	15 ¹ / ₂	13 ⁷ / ₈	-	-
18	18	16	11 ⁵ / ₁₆	-	-	-	-	-	-
24	24	22	15 ⁹ / ₁₆	-	-	-	-	-	-
30	30	28	19 ¹³ / ₁₆	-	-	-	-	-	-

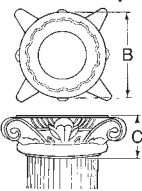
Note: The chart above features the actual outside dimensions of all columns, and the inside diameter of round columns. 'Maximum square encased' lists the largest size support structure than can be enclosed by the corresponding size wrap-around column.

Round Columns – Dimensions & Load Data

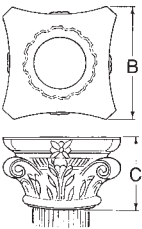
Round Column, Standard or Doric Cap or Base



Scamozzi Cap



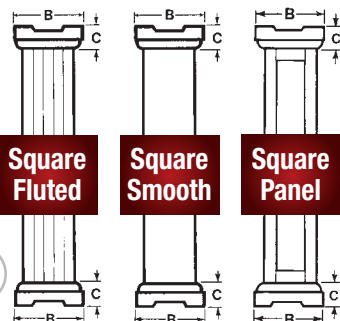
Corinthian Cap



Nominal Diameter	Actual Diameter	Caps & Bases (width & height)										Standard Lengths in Ft.	No. Staves	Load Lbs.
		Polymer Composite		Standard		Doric		Scamozzi		Corinthian				
	A	B	C	B	C	B	C	B	C	B	C			
6	5 ⁵ / ₈	7 ³ / ₄	1 ¹⁵ / ₁₆	7 ³ / ₄	1 ¹⁵ / ₁₆	-	-	-	-	-	-	8, 9, 10 & 12'	3	13,000
8	8	10	2 ¹ / ₁₆	10	2 ¹ / ₁₆	12 ¹ / ₄	3 ³ / ₄	12	5 ¹ / ₈	15 ³ / ₄	10	8, 9, 10, 12, 14 & 16'	3	22,000
10	10	-	-	12 ¹ / ₄	2 ⁷ / ₁₆	14 ¹ / ₂	4 ¹ / ₄	12	5 ¹ / ₈	15 ³ / ₄	10	8, 9, 10, 12, 14, 16, 18 & 20'	4	25,000
12	11 ¹ / ₄	-	-	14 ¹ / ₈	3	17	5	14 ¹ / ₂	6 ¹ / ₂	20	12 ¹ / ₂	8, 9, 10, 12, 16, 18 & 20'	5	30,000
15	14 ³ / ₈	-	-	17 ⁷ / ₈	3 ¹ / ₂	20 ³ / ₄	5 ³ / ₄	18 ¹ / ₂	7 ¹ / ₄	23 ¹ / ₂	15	12, 16, 18 & 20'	6	34,000
18	18	-	-	21 ⁵ / ₈	3 ³ / ₄	25 ¹ / ₂	6 ¹ / ₂	27	7 ³ / ₄	26 ¹ / ₂	18	16, 18 & 20'	6	38,000
24	24	-	-	28	4 ³ / ₈	31 ³ / ₄	7 ¹ / ₈	38 ¹ / ₂	14 ³ / ₈	35 ¹ / ₂	25	16, 18, 20 & 24'	6	50,000
30	30	-	-	-	-	43 ⁵ / ₈	9 ¹ / ₂	-	-	-	-	16, 18, 20 & 24'	8	50,000

➡ Tested lengths are underlined.

Square Columns – Dimensions & Load Data



4" columns are available with a Standard cap and base only. All other size columns are available with a Standard, Doric or Charleston cap and a Standard, Doric or Savannah base.

Nominal Width			Caps / Bases (width & height)**										Standard Lengths in Ft.	Load lbs.		
			Polymer Composite		Standard		Doric		Charleston		Savannah					
Smooth	Fluted	Panel	B	C	B	C	B	C	B	C	B	C		Smooth	Fluted	Panel
4*	4"	-	-	-	6	1 ³ / ₈	-	-	-	-	-	-	8, 9, 10 & 12'	15,000	13,000	-
6"	6"	6"	8 ¹ / ₂	2	8 ¹ / ₂	2	10 ¹ / ₂	3 ³ / ₄	9 ¹ / ₄	6 ¹ / ₂	8	5 ¹ / ₄	8, 9, 10 & 12'	15,000	12,000	40,000
8"	8"	8"	10 ¹ / ₂	2	10 ¹ / ₂	2	12 ¹ / ₂	3 ³ / ₄	11 ¹ / ₄	6 ¹ / ₂	10	5 ¹ / ₄	8, 9, 10, 12 & 16'	24,000	18,000	60,000
10"	10"	10"	-	-	12 ¹ / ₂	2 ⁵ / ₁₆	14 ¹ / ₂	3 ³ / ₄	13 ¹ / ₄	6 ¹ / ₂	12	5 ¹ / ₄	8, 10, 12 & 16'	45,000 (16')	33,000	80,000
12"	12"	12"	-	-	15	2 ¹ / ₂	16 ¹ / ₂	3 ³ / ₄	17 ¹ / ₄	10	14	5 ¹ / ₄	8, 9, 10, 12, 16, & 20'	50,000	27,660 (15')	75,000
-	16"	16"	-	-	20	3	20 ¹ / ₂	3 ³ / ₄	21 ¹ / ₄	10	18	5 ¹ / ₄	12, 16, 18 & 20'	-	13,000	75,000

*Not available in wrap-around.

**All square column staves extend through caps and bases.

➡ Tested lengths are underlined unless otherwise noted.

Note: All square columns contain 4 staves with the exceptions of 4" smooth (1 staff), 4" fluted (2 staves), and 16" panel (8 staves).



ABOUT SUPERIOR ALUMINUM

Founded in 1956 in Youngstown, Ohio, Superior Aluminum began as a window manufacturer before making the switch to aluminum railing in 1960. In 1966, the company was purchased by businessmen Tom Francis and Ed Borchers.

Tom and Ed moved the company to its current home in Russia, Ohio, where continued growth forced two facility moves before eventually building their current modern 110,000 square foot facility in 1996, which remains the company's home.

Today, Superior continues to be a privately-owned business, operated by the Francis and Borchers families. A sister company owned by the Francis family manufactures all aluminum castings, which ensures tight quality control, ultra-fast response, and easy customization when needed. The core values of honesty, hard work, and treating people with respect established by our founders remain as the foundation of the business today.



Ed Borchers and Tom Francis



Aerial View of Superior Aluminum Products, Inc.



Superior Aluminum Products, Inc.

"I want to thank Superior for working with us on our courthouse project. Everything fit like a glove when it was installed! I was very impressed with the products, the ease of installation, and the precision of the fit! The name of your company is truly proper, as your product line is Superior! Once again, thank you for working with us and more in the future!"

"I wanted to extend special thanks to the Superior team for all of their assistance in helping me complete my deck on time. The railings were easy to install and absolutely visually stunning!"



Superior Series 500 Non-Welded Aluminum Pipe Railing (hand rail at steps).
Superior Series 550 Non-Welded Aluminum Pipe Picket Railing (at steps and landing).

Ask about our complete line of other... Superior Aluminum Products:

- Fiberglass Columns - Round & Square
- Series 2000 Aluminum Cable Railing
- Series 5C Aluminum Pipe 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 9000 Heavy-Duty Aluminum Railing
- Series 9100 Architectural Aluminum Railing
- Series 9H Aluminum Horizontal Railing
- Series 9P Aluminum Privacy Fence



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info@superioraluminum.com • www.superioraluminum.com

Superior Fiberglass Columns



Elegance, Strength, and Dependability

www.superioraluminum.com

Superior Round and Square Fiberglass Columns

Elegance, Strength, and Dependability

Superior fiberglass columns are shaped as they were in Ancient Greece, stretching upward from a strong base to a graceful taper at the smooth top. Whether round, fluted, or square, our fiberglass columns are specially constructed for all types of decorative and load-bearing installations, and have architecturally correct proportions and projections. The Greeks used the word “entasis” to describe their columns... you will call them “beautiful.” They are perfect for indoor and outdoor applications and ideal for both residential and commercial use.

Whether it's for new construction or remodeling, beautiful Superior fiberglass columns are the low-cost way to add a touch of elegance and detail to your architectural designs that will last a lifetime. Our fiberglass columns are manufactured from high density, highly advanced fiberglass polymers that resist impact damage, and are virtually maintenance-free

Durability - Unlike wood, fiberglass columns will not rot, split, or warp, and are more impact resistant than wood. And, of course, termites hate them.

Strength - Fiberglass columns can be used as load bearing structural elements in entrances, covered walkways, lobbies, colonnades, balconies, and other structures, inside or outside.

Easy Installation - Cut the columns to size and slip on the caps and bases. Easy to follow assembly and installation instructions are located on the back cover and packaged with each column.

Complete Range of Sizes - Superior Aluminum offers a wide range of sizes and lengths to fit almost any application. Refer to the Dimensions and Load Data charts for available sizes.

Finish - For outdoor installations, the columns must be protected. A good quality alkyd or oil based primer and paint are recommended. Paint should be applied with a brush. Spray painting is not recommended. No special preparation is required, and once painted, the columns will not deteriorate, even under severe long-term weathering.



CAPS & BASES

Standard Ionic Scamozzi Temple Corinthian

Standard Attic

Round smooth and round fluted columns are complemented by matching classic caps and bases, including the Standard, Ionic, Scamozzi, Temple, and Corinthian caps and Standard and Attic bases (shown above). Square columns are also provided with a matching classic cap and base (shown below).

Square Cap Square Base

Round Columns				Dimensions & Load Data																					
	Nominal Diameter		Actual Diameter		Non-Tapered Area from Bottom of Column	Flutes from Bottom (Fluted Column Only)	Number of Flutes	Standard Cap		Ionic Cap		Scamozzi Cap		Temple Cap		Corinthian Cap		Standard Base		Attic Base		Standard Lengths (ft)		Load Lbs.	
	Round Smooth	Round Fluted	Outside Base	Outside Neck																		Round Smooth	Round Fluted		
			A	B				C	D	Width	Height	Width	Height	Width	Height	Width	Height	Width	Height	Width	Height	E	F		J
							E	F	E	F	E	F	E	F	E	F	E	F	E	F					
	6"	6"	5-5/8"	5"	1/3 of length	14-1/16"	16	7-1/2"	4-5/8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8-1/2"	3-3/16"	8"	3-7/16"	8'	8'	8,000	
	8"	8"	7-5/8"	6-1/2"	1/3 of length	15-1/8"	24	9-1/2"	2-1/2"	8-1/2"	4"	10-1/2"	4-1/4"	10-1/4"	8-1/4"	12-3/4"	9-1/4"	10-1/4"	4-3/8"	10-1/4"	4-1/2"	5'6", 8, 9, 10'	8, 9, 10'	10,000	
	10"	10"	9-5/8"	8-1/4"	1/3 of length	16"	24	11-15/16"	3-1/8"	11"	5-1/4"	14-1/2"	5-1/4"	13-3/4"	11"	15-1/2"	12-1/4"	12-3/4"	5-1/2"	12-3/4"	5-7/8"	8, 9, 10, 12'	8, 9, 10, 12'	14,000	
	12"	12"	11-5/8"	9-11/16"	1/3 of length	16-7/8"	24	14-3/8"	3-5/8"	12-3/4"	5-3/4"	17-1/2"	6-1/4"	15-3/4"	11-3/4"	18-1/4"	14-3/4"	15-1/8"	6-1/8"	15-5/16"	6-13/16"	8, 9, 10, 12, 14, 16'	8, 9, 10, 12'	18,000	
	14"	14"	13-5/8"	11-3/8"	1/3 of length	18-1/4"	24	16-3/8"	4-1/16"	16-1/2"	5"	18-3/4"	5-5/8"	21-1/2"	14"	19-3/4"	15-1/8"	18-5/8"	7-1/2"	18-5/8"	9-1/16"	8, 9, 10, 12, 14, 16'	8, 9, 10, 12'	20,000	
	16"	16"	15-5/8"	13"	1/3 of length	N/A	N/A	18-1/2"	4-1/2"	17-1/4"	6-3/8"	22"	7-1/2"	23-1/4"	17"	22-1/2"	17-1/8"	21-3/8"	8-5/8"	21-1/8"	10-3/16"	8, 9, 10, 12, 14, 16, 18, 20'	8, 9, 10, 12'	20,000	
	18"	N/A	17-1/2"	15"	1/3 of length	N/A	N/A	21-1/4"	5-1/2"	21-1/4"	6-1/2"	24-3/4"	7-1/2"	27"	18-5/8"	25-1/4"	17-3/4"	24-1/8"	9-13/16"	24-1/4"	11-5/8"	8, 9, 10, 12, 14, 16, 18, 20'	N/A	20,000	
	20"	N/A	20"	17"	1/3 of length	N/A	N/A	24-1/8"	5-5/16"	25"	9"	18-1/2"	8-1/2"	27-3/4"	21-1/2"	39"	25-1/4"	27"	10-3/4"	27"	12-7/8"	12, 14, 16, 18, 20, 22, 24'	N/A	20,000	
	22"	N/A	22"	18-1/2"	1/3 of length	N/A	N/A	26-1/2"	6-1/4"	25-1/8"	9-1/2"	N/A	N/A	N/A	N/A	41"	28-1/2"	29-3/4"	12-1/8"	29-3/4"	14-1/4"	14, 16, 18, 20, 22, 24'	N/A	20,000	
	24"	N/A	24"	20"	1/3 of length	N/A	N/A	28-3/4"	6-7/8"	27-3/4"	9-3/4"	32-1/4"	10-5/8"	35-3/4"	10-5/8"	42"	28-1/2"	32-1/2"	13-1/4"	32-1/2"	15-11/16"	14, 16, 18, 20, 22, 24'	N/A	20,000	
	30"	N/A	30"	25"	1/3 of length	N/A	N/A	35-3/4"	8-5/8"	N/A	N/A	N/A	N/A	N/A	N/A	48"	36"	40-1/2"	16-1/2"	40-1/2"	19-1/4"	20, 22, 24, 26, 28, 30'	N/A	20,000	
	36"	N/A	36"	30"	1/3 of length	N/A	N/A	42-3/4"	10-1/2"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48-3/4"	20-1/8"	48-3/4"	23-1/2"	20, 22, 24, 26, 28, 30'	N/A	20,000	

* Round columns should be trimmed **only** in non-tapered area of column to assure proper fit to base.

Caps are viewed from top.

Bases are viewed from bottom.

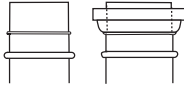


Square Columns		Dimensions & Load Data							
		Square Cap		Square Base		Standard Lengths (in feet)		Load Lbs.	
Square Column (For Non-Tapered and Recessed Panel Columns)						Column Extends Through Cap		Column Extends Through Base	
Nominal Width	Actual Width	Cap Width	Cap Height	Base Width	Base Height	Square Column		Square Column	
	Q	R	S	T	U	V			
6"	5-1/2"	8"	1-15/16"	8-1/2"	3-1/4"	9'		5,000	
8"	7-1/2"	10-1/8"	2-3/8"	10-3/8"	4-1/4"	8, 9, 10'		10,000	
10"	9-1/2"	12-3/4"	3"	13"	5-1/4"	8, 9, 10'		10,000	
12"	11-1/2"	15-7/8"	3-3/8"	15-1/4"	6"	8, 9, 10, 12'		10,000	

Easy Assembly and Installation Instructions

Round Columns with Standard Caps

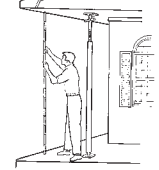
1. Slide the standard cap over the column neck until it rests against the column shoulder bead.



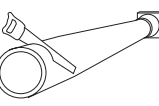
2. The column neck should protrude 1/16" above the cap. Trim evenly with an abrasive saw (if required). **Be sure to wear safety glasses.**



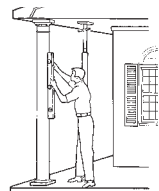
3. Measure the required length or opening where the column is to be used. The column should be slightly longer for a snug fit.



4. Trim the bottom of the column to achieve the desired overall height. **Be sure to wear safety glasses.** Be certain the saw-cut (top & bottom) is even so the load is evenly distributed around the column circumference. If necessary, use a rasp to even it out.

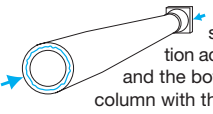


5. Position the cap and base on the column and temporarily stand the column in position, then plumb with a level. With a pencil, mark the exact mounting position around the cap and base.

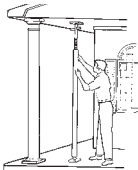
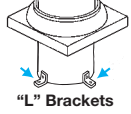


6. Securing the Column to the Structure*

A. Using Construction Adhesive: One method of securing the column to the structure is to apply construction adhesive to the top of the column and the bottom trimmed surface of the column with the column lying down.

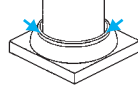


B. Using "L" Brackets: Another method of attaching the column to the structure is the use of L-shaped brackets at the bottom of column. To secure the "L" brackets to the column, drill holes through the column walls and use through bolts. Do not use screws.



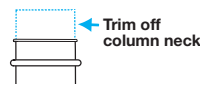
7. Set the column in place, then remove jacks or props.

8. Caulk between the rim area of the base and column with a high quality paintable caulk. Clean the column surface with a damp cloth. An alkyd or oil based primer and paint are recommended. Paint should be applied with a brush. Spray painting is not recommended.

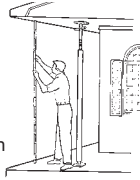


Round Columns with Ornamental Caps

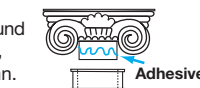
1. Trim off the top of the column neck to the shoulder bead with an abrasive saw. Trim evenly around the column circumference. **Be sure to wear safety glasses.**



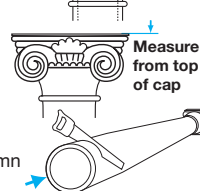
2. Measure the required length or opening where the column is to be used. The column should be slightly longer for a snug fit.



3. Apply construction adhesive around the lower round surface of the cap, then position the cap on the column.



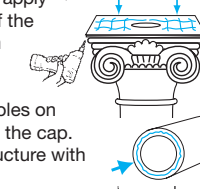
4. Measure the overall required length measuring from the top of the cap to the bottom end of the column. Trim from the bottom end of the column only. Be certain the saw-cut is even so the load is distributed evenly around the column circumference. **Be sure to wear safety glasses.**



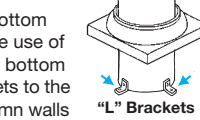
5. Position the base on the column, then temporarily stand the column in position and plumb with a level. With the cap and base in proper position, mark the exact mounting location with a pencil.



6.* Next, lay the column down and apply construction adhesive to the top of the ornamental cap and on the bottom trimmed surface of the column. Another method of securing the column top in place is by drilling holes on opposite sides at an angle through the cap. Then, attach the column to the structure with screws. Do not over tighten.



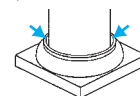
Another method of attaching the bottom of the column to the structure is the use of L-shaped brackets attached to the bottom of column. To secure the "L" brackets to the column, drill holes through the column walls and use through bolts. Do not use screws.



7. Set the column in its permanent position, then remove jack or props.

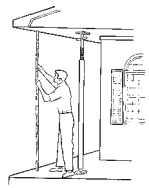


8. Caulk between the rim area of the base and column with a high quality paintable caulk. Clean the column surface with a damp cloth. An alkyd or oil based primer and paint are recommended. Paint should be applied with a brush. Spray painting is not recommended.

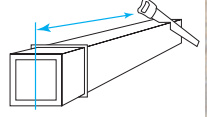


Square Columns with Cap & Base

1. Measure the required length or opening where the column is to be used. Using an abrasive saw, the column should be trimmed slightly longer for a snug fit. **Be sure to wear safety glasses.**



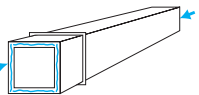
NOTE: Generally the bottom section of the column is sawed off to fit the opening. Trim evenly so the weight is evenly distributed around the column. However, depending upon your preference, a maximum of 1-3/4" can be trimmed off the top, if desired.



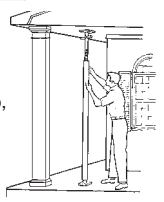
2. Position the cap and base on the column and temporarily stand the column in position, then plumb with a level. With a pencil, mark the exact mounting position around the top neck of the column and the base.



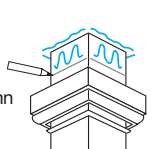
3. Next, lay the column down and apply construction adhesive to the top and bottom load bearing surfaces of the column. See "Installation Note" below.



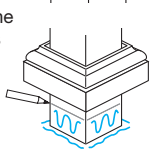
4. Install the cap and base and set the column in place, then remove jacks or props.



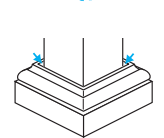
5. With the cap temporary pushed up, draw a pencil line around the bottom surface of the cap. Allow the cap to slide down, then apply construction adhesive to the top of cap, (or upper mounting surface), and to the upper neck of the column. Position the cap up and press it firmly in place.



6. Draw a pencil line around the column at the top of the base, then slide the base up and apply construction adhesive around the column below the pencil line. Slide the base down to its normal floor position.



7. Caulk with a high quality paintable caulk between the base and column and the cap and column.



8. Clean the column surface with a damp cloth. An alkyd or oil based primer and paint are recommended. Paint should be applied with a brush. Spray painting is not recommended.

***INSTALLATION NOTE: CHECK APPLICABLE STATE, LOCAL, AND FEDERAL BUILDING CODES FOR SPECIFIC INSTALLATION AND FASTENING REQUIREMENTS APPLICABLE TO THE PROJECT.**

Installation Tip – Column may be trimmed with an abrasive saw, hacksaw, or fine-toothed handsaw. A rasp can be used to even it out.



A photograph of a modern, multi-story residential building, likely a townhome or apartment complex. The building features a mix of grey horizontal siding and dark red vertical accents. It has multiple levels of balconies and a set of wide concrete stairs leading to the ground floor. All the balconies and stairs are equipped with black aluminum railings. The sky is clear and blue. The overall aesthetic is clean and contemporary.

Superior

Aluminum Railing

SERIES
9000

Meets OSHA, ADA and ICC Safety Criteria

Strong, Durable and Maintenance-Free Beauty!

www.superioraluminum.com



Heavy-Duty Aluminum Railing

Strong, Durable, and Maintenance-Free Beauty!

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.

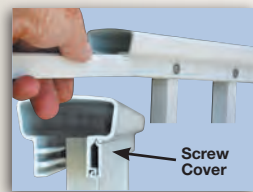
The smart, contemporary design is an added plus. Our unique, no-weld design utilizes simple, cast aluminum fittings or machined openings for a no-hassle, easy installation.

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.



9000 Railing (Style B), 905 Top Rail

Finishes

Smart, decorative finishes add a distinctive touch. Whether PPG Duracron paint, anodized, or duranodic, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.



Series 9000

9000 and 9900 Railing



Rails are inserted into machined post openings.

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.

Top Rail Selections



9000 RAILING

Features 2 1/2" square posts, 3/4" square pickets, and 905 top rail.



9900 RAILING

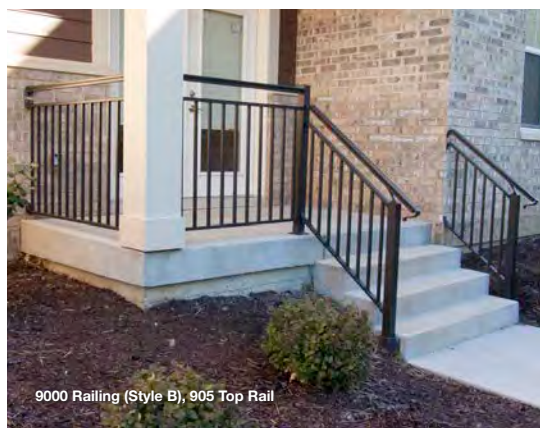
Features 2 1/2" square posts, 1 1/2" x 3/4" pickets, and 905 top rail.

Note: All top rail (901, 902, 905), posts (2", 2 1/2", 4"), and pickets (3/4" square, 3/4" x 1 1/2") are interchangeable.

Superior 9000 and 9900 Railing meets OSHA, ICC, and ADA criteria.



9000 Railing (Style B), 905 Top Rail



9000 Railing (Style B), 905 Top Rail



9900 Railing (Style A), 902 Top Rail and Square Fluted Columns

Railing Style Systems

Superior offers a variety of styles to fit any application.

Style A Standard Top Rail



9000 Railing (Style A), 905 Top Rail

Style B Open Double Top Rail



9000 Railing (Style B), 905 Top Rail

Style C Double Top Rail with Through Pickets

Through pickets can be spaced according to your preference. For example; every picket, every 2nd, 3rd, 4th picket, etc.



9000 Railing (Style C), 901 Top Rail

Style D Hand Rail (with mtg. brackets)

905 top rail or Superior Series 500 Pipe Rail can be used for hand rail applications.



905 Top Rail (Style D)

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.*



Option 1
905 Top Rail
903 Bottom Rail

Option 2
901 Top Rail
903 Bottom Rail

Option 3
902 Top Rail
903 Bottom Rail

Option 4
902 Top Rail
902 Bottom Rail



Option 5
905 Top Rail
903 Bottom Rail

Option 6
901 Top Rail
903 Bottom Rail

Option 7
902 Top Rail
903 Bottom Rail

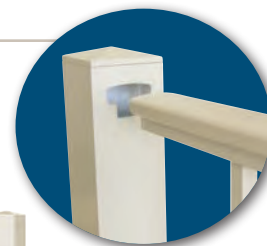
Note:
3/4" sq. pickets
and 3/4" x 1 1/2"
pickets are also
interchangeable.

Interchangeable Post

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



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.



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



9000 Railing, Open Triple Top Rail, 905 Top Rail and Series 500 Pipe Rail Used for Hand Rail Application

**SERIES
9000**

**Meets ADA
Regulations**

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. It's 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.



9000 Railing (Style C), 905 Top Rail



**No brackets on level
and ramp railing!**



9000 Railing (Style B), 905 Top Rail



9000 Railing (Style A), 905 Top Rail and Series 500 Handrail



9900 Railing (Style A) with 902 Top Rail and Superior Aluminum Square Panel Columns



9000 Railing (Style A), 905 Top Rail and Series 500 Handrail

9000 Railing (Style A), 905 Top Rail



**Swivel brackets are
required for all step
rail applications.**



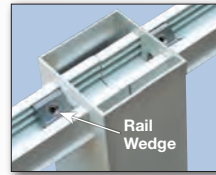
Continuous Top Rail

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.

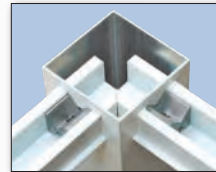


Easy Assembly and Installation!

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.



View of the underside of bottom rail to show rail wedge location.



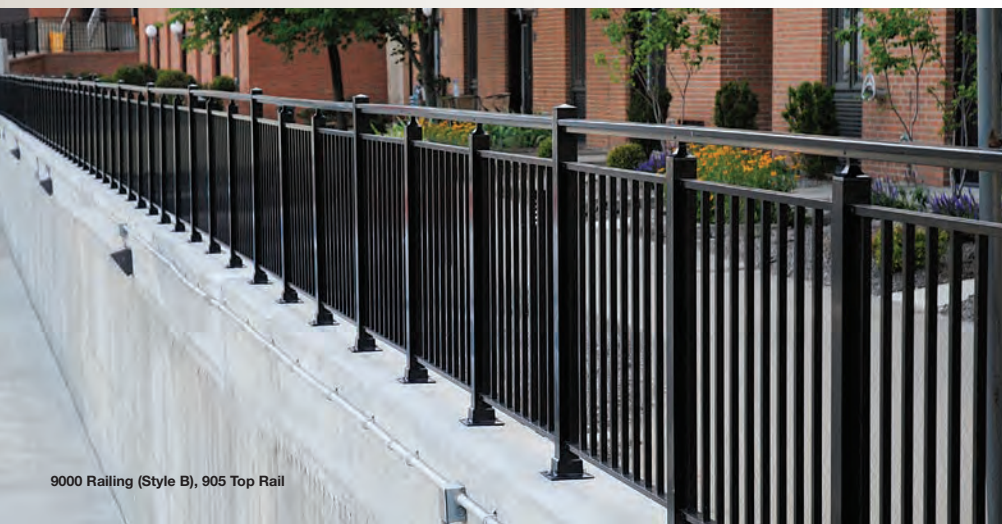
All level and ramp posts are machined with openings to receive the top and bottom rails. As assembled railing is inserted into the openings, a rail wedge located in the bottom rail will ensure proper insertion of 1 1/4" inside the post.



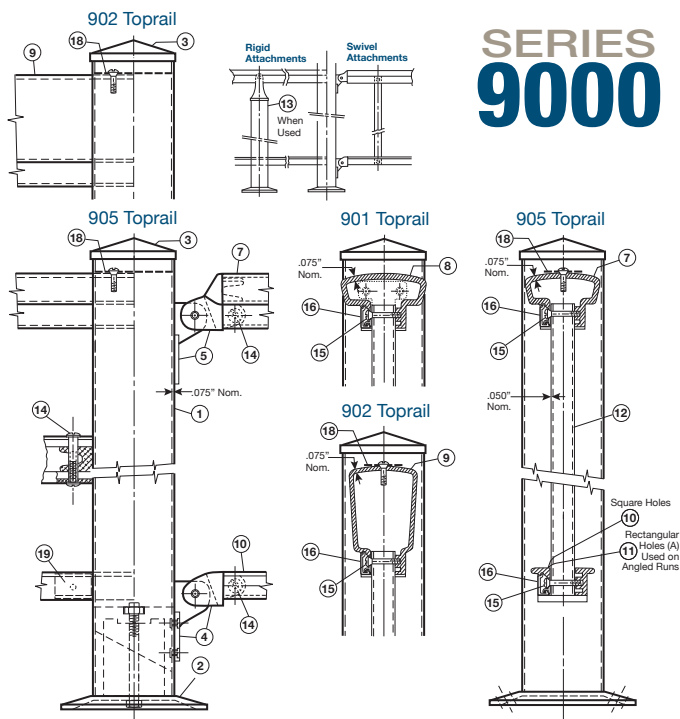
View of the top rail without post cap to show rail tabs.



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.

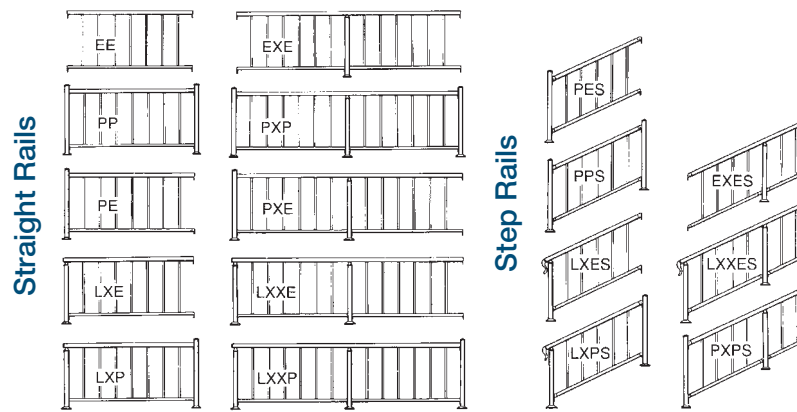


Assembly Identification

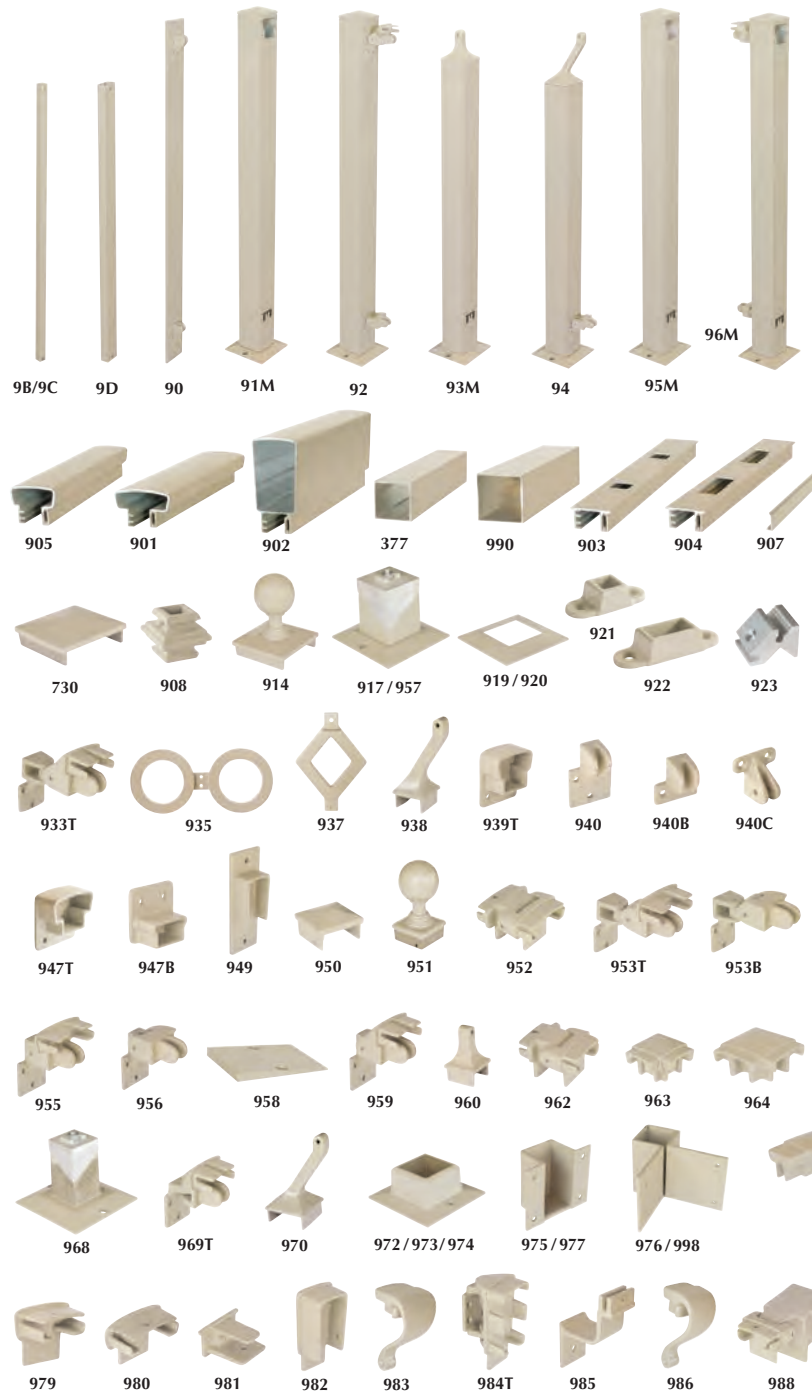


- | | |
|--------------------------------------|---------------------------|
| 1. 990 2 1/2" Tube .075" Wall | 10. 903 Bottom Rail |
| 2. 957 Base Assembly | 11. 904 Bottom Rail (A) |
| 3. 950 Cap | 12. 9B 3/4" Square Picket |
| 4. 956 Bottom Rail Swivel Assem. | 13. 93M Crossover Post |
| 5. 955 Top Rail Swivel Assem. | 14. 912 8-32 Binder Bolt |
| 6. 940 Top & Bottom Rigid Attachment | 15. 911 Picket Screws |
| 7. 905 Top Rail 2" w x 1 5/8" h | 16. 907 Screw Cover |
| 8. 901 Top Rail 2 1/2" w x 1 5/8" h | 17. 915 5/32" Dia. Rivets |
| 9. 902 Top Rail 2" w x 4" h | 18. 924 Rail Tab |
| | 19. 923 Rail Wedge |

Design Selections

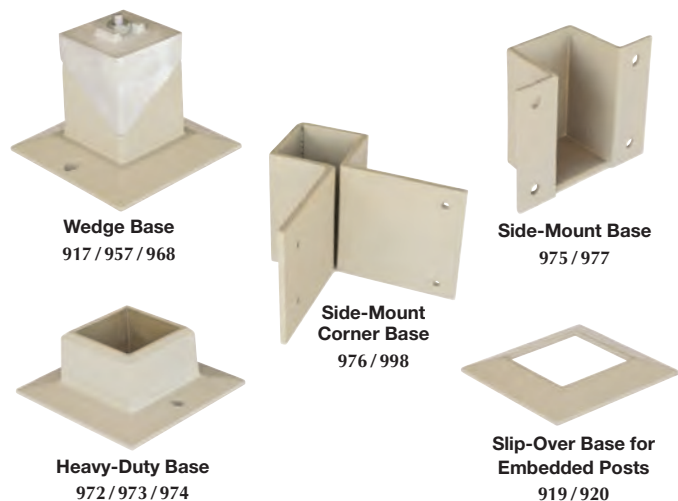


Component Parts

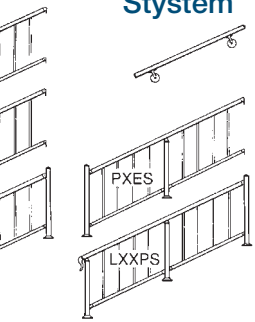


Base Options

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.



Hand Rail System



Parts Description

RAILS

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

FASTENERS

- 310 Rail Tab Screw
- 911 Picket Screws
- 912 Rail Bracket Binder Bolt
- 915 Post Bracket Rivet 5/32"

POSTS & PICKETS

- 9B ___ Picket 3/4" Sq.- 4 1/2" Centers
- 9C ___ Picket 3/4" Sq.- 6" Centers
- 9D ___ Picket 3/4" x 1 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 1/2" Slip Over Base
- 957 Wedge Base for 2 1/2" Post
- 968 Wedge Base for 2" Post
- 972 Heavy-Duty Base for 4" Post
- 973 Heavy-Duty Base for 2 1/2" Post
- 974 Heavy-Duty Base for 2" Post
- 975 Side Mount Brkt. for 2 1/2" Post
- 976 Corner Side Mount Brkt. for 2 1/2" Post
- 977 Side Mount Bracket for 2" Post
- 998 Corner Side Mount Brkt. for 2" Post

TUBING

- 990 2 1/2" 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 3/4" Square Picket Base
- 922 3/4" x 1 1/2" Picket Base
- 923 Rail Wedge
- 924 Rail Tab
- 929 Cast "X" Insert (4" Opening)
- 930 Cast Picket Spear - 4" High
- 933T 2-Way Swivel Bracket - 2"
- 935 3 3/4" OD Double Ring
- 936 Hanging Rail "L" Brackets
- 937 3 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 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 1/2" Post
- 951 Post Ball Cap for 2 1/2" Post
- 952 Top Rail Hinge 2 1/2" w
- 953T 2-Way Swivel Bracket - 2 1/2"
- 953B 2-Way Swivel Bottom
- 954T Horiz. Swivel Brkt. Top - 2 1/2"
- 954B Horiz. Swivel Brkt. Bottom
- 955 Vertical Swivel Top 2 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 1/2" w
- 965 Crossover Cap for 2 1/2" Post
- 966 Crossover Cap for 2 1/2" Post (Flat)
- 969T Horiz. Swivel Brkt. Top - 2" w
- 970 Angle Crossover Cap for 2 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 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)



9000 Railing (Style A), 905 Top Rail, and Series 500 Pipe Rail



9000 Railing, Open Triple Top Rail, 905 Top Rail



9000 Railing (Style B), 901 Top Rail



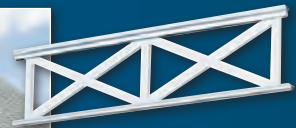
9000 Railing (Style B), 901 Top Rail

Custom Applications

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.



Extruded X-Pattern System with Superior Panel Columns on balcony and Superior Fiberglass Columns below.



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



9000 Railing with Cast Aluminum X-Inserts

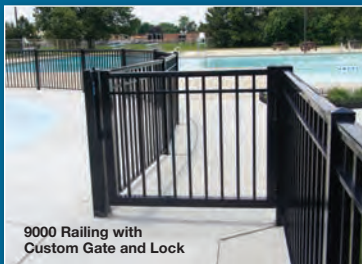


Cast Aluminum X-Inserts



9000 Railing with Custom Gate and Lock

Superior Aluminum manufactures attractive gates with custom locks upon request.



9000 Railing with Custom Gate and Lock



9000 Railing with Custom Gate and Lock

Ask about Series 2000 Cable Railing for a contemporary look.



Series 2000 Cable 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 $\frac{3}{4}$ " square on $4\frac{1}{2}$ " centers.

(For 9900 Railing)

Pickets shall be $1\frac{1}{2}$ " x $\frac{3}{4}$ " on $5\frac{1}{4}$ " 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.



Shown in both photos above: Superior Series 500 Non-Welded Aluminum Pipe Railing and Superior Series 550 Non-Welded Aluminum Pipe Picket Railing.

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

Superior Aluminum Products, Inc.

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info@superioraluminum.com • www.superioraluminum.com



Architectural Aluminum Railing

New SERIES
9100

Meets OSHA, ADA and ICC Safety Criteria



Embracing form and function in a sleek, modern design.

www.superioraluminum.com



Architectural Aluminum Railing

Embracing form and function in a sleek, modern design.

Superior Series 9100 Architectural Aluminum Railing embraces both form and function with it's 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.



9100 Railing with Ring Inserts

Finishes

Whether PPG Duracon paint, anodized or duranodic, the smart decorative finishes are guaranteed to endure for years of continued service and maintenance-free



Series 9100 Architectural Railing New

Standard 9100 Railing utilizes 901 top rail (2 1/2" w x 1 5/8" h), 903 bottom rail (1 5/8" w x 3/4" h), 2" square posts and 3/4" square pickets. 904 bottom rail with rectangular holes is used for ramp or step railing.

Interchangeable Pickets

To customize your look, standard 3/4" pickets can be substituted with 3/4" x 1 1/2" pickets.



Series 9100 Railing meets OSHA, ICC and ADA criteria.



Railing Style Systems

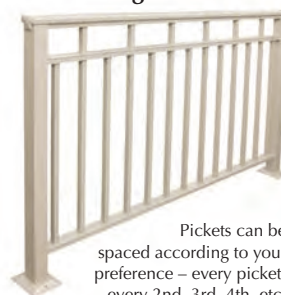
Standard Top Rail



Open Double Top Rail



Double Top Rail with Through Pickets



Pickets can be spaced according to your preference – every picket, every 2nd, 3rd, 4th, etc.

Double Top Rail with Inserts



Ring or diamond inserts can be used with double top rail.

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 it can be mounted directly to the railing with brackets and a through bolt (see photo inset).



Series 9100 Features

Continuous Top Rail

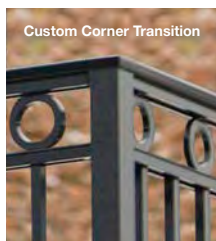
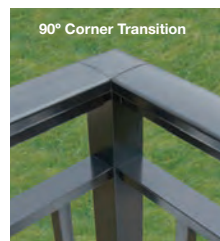
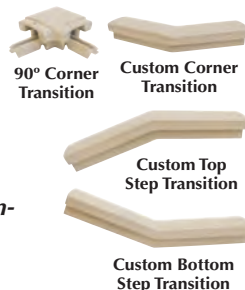
Series 9100 Railing features a sleek, continuous top rail, ingeniously designed with concealed fasteners to create a continuous graspable handrail and clean, dramatic lines.



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.



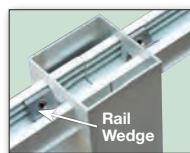
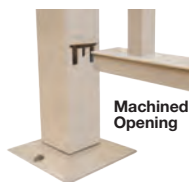
Series 9100 Railing seamlessly transitions around corners and from horizontal to ramp or step railing.

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.

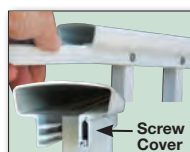
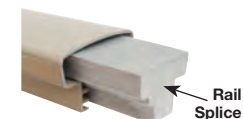
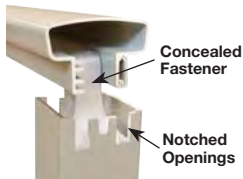
Rail wedges, located in the underside of the rails will ensure proper insertion of 1" inside the post.

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.



9100 Railing: Double Top Rail with Ring Inserts Side Mounted on a Rooftop



9100 Railing: Double Top Rail with Ring Inserts



9100 Railing: Open Double Top Rail



9100 Railing: Double Top Rail with Ring Inserts Embedded in Concrete

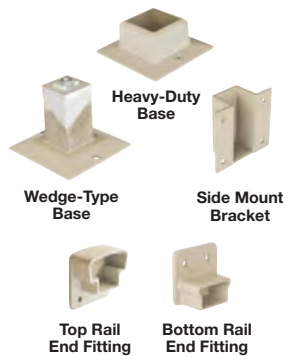


Custom Aluminum Gates

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 ★ New

Herringbone Aluminum Railing

Call Superior Aluminum for details about this exciting new product!



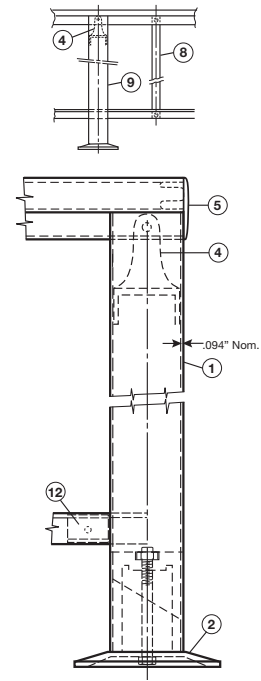
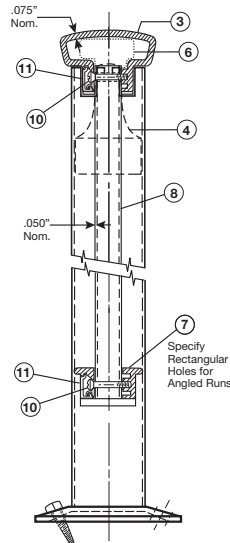
Option A



Option B

Assembly Identification

SERIES 9100



- | | |
|-------------------------------------|-----------------------|
| 1. 377 2" Tube .094" Wall | 7. 903 Bottom Rail |
| 2. 968 Base Assembly | 8. 3/4" Square Picket |
| 3. 901 Top Rail 2 1/2" w x 1 5/8" h | 9. Section Post |
| 4. 960X Internal Attachment | 10. 911 Picket Screws |
| 5. 980X End Cap | 11. 907 Screw Cover |
| 6. 913X Internal Splice | 12. Rail Wedge |

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.

Superior Aluminum
Products, Inc.

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www.superioraluminum.com

Superior

Non-Welded Aluminum
Pipe Railing

SERIES
500
550

Meets OSHA, ADA, and ICC Safety Criteria



Strong, Durable, and Maintenance-Free!

SuperiorAluminum.com

Superior Series 500 Pipe Aluminum Railing

Meets OSHA, ADA, and ICC Safety Criteria

Superior Series 500 Pipe Railing is designed to utilize all the advantages of aluminum, where strength, durability and no-paint maintenance are key.

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

Superior Pipe Railing is factory assembled and made to your exact specifications. Special curves or pipe radii 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.

Pipe Railing is available in standard heights of 32", 36", 42", and 48", as well as custom heights.

Concealed Fasteners

Posts and top rails for Pipe Railing are assembled to run in continuous lengths via concealed fasteners. Not only is this system stronger than one with cast tee and cross connections, but it also provides a contemporary design.



Handrail

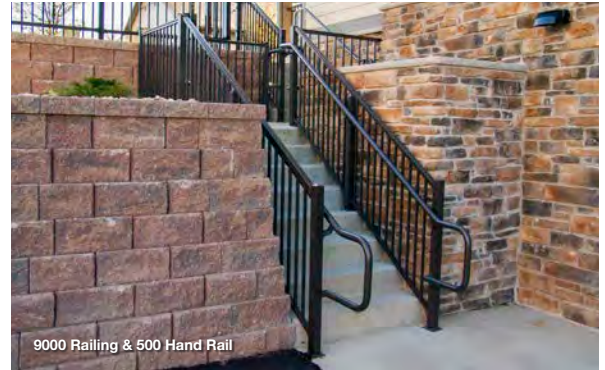
In addition to a guardrail system, Series 500 Pipe Railing can also be used in handrail applications. Pipe handrail can be directly mounted on walls, stairways, or other barriers. Additionally, handrail can be mounted to Superior Pipe Picket, Heavy-Duty, Cable, and Architectural Railing.

Series 500 Applications

A sampling of the numerous applications available



500 Pipe Rail



9000 Railing & 500 Hand Rail



500 Pipe Rail

Municipal Settings

Water treatment plants, city parks, village offices, etc.



Athletic Venues

As handrail, guardrail, or both!



Commercial Buildings

Breweries, churches, stores, restaurants, hospitals, etc.



Multi-Family Buildings

Apartments, condos, hotels, motels, etc.





Series 550 Pipe Picket Aluminum Railing

Meets OSHA, ADA, and ICC Safety Criteria

Superior Series 550 Pipe Picket Railing utilizes many of the same components as Series 500 Pipe Railing, but with the added aesthetic, structural, and code advantages offered by pickets. Similar to the system's other components, these pipe pickets are made of high-quality, maintenance-free aluminum extrusions.

Series 550 Pipe Picket Railing is easily assembled without welding, with joints fastened by a combination of fasteners and epoxy splices, all stylishly concealed. Furthermore, pipe pickets are assembled with a tight drive-in-fit to ensure rigidity.

Each pipe picket project is pre-assembled in-house to the exact needs of the project. Field fabrication is minimal, saving time and money on the jobsite!

Pipe picket railing is available in standard heights of 32", 36", 42", and 48", and other custom heights upon request. These standard sizes act as a guideline to ensure code requirements are met.

Handrail Compatibility

Due to their similar components, Series 550 Pipe Picket Railing makes for a great companion to Series 500 Pipe Handrail. The nature of pipe picket railing allows for it to be classified as a guardrail, which, in conjunction with properly placed pipe handrail, creates a system that is as beautiful as it is code compliant!

Design Options

Pipe picket railing can be utilized in a large variety of ways. From balconies to entryways to ramps, Series 550 Pipe Picket Railing has a design option that will get the job done right.



Series 550 Applications

A sampling of the numerous applications available

Municipal Settings

Water treatment plants, city parks, village offices, etc.



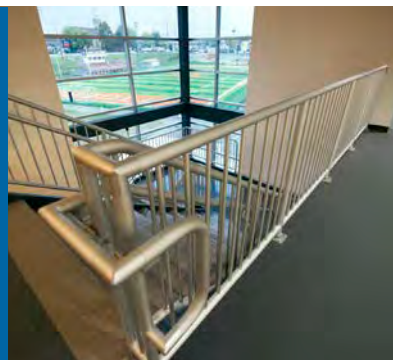
Commercial Buildings

Breweries, churches, stores, restaurants, hospitals, etc.



Educational Facilities

High schools, college campuses, etc.



Multi-Family Buildings

Apartments, condos, hotels, motels, etc.



Athletic Venues

Seating, entryways, restricted areas, etc.





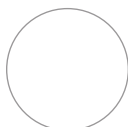
Series 5C Pipe Cable Aluminum Railing

New Superior Series 5C Pipe Cable Railing creates a powerful combination of pipe framework with cable infills. This unique product pairing creates an unprecedented blend of modern and industrial style sure to benefit many distinct architectural designs.



Finishes

Series 500 Pipe Railing, 550 Pipe Picket Railing, and 5C Pipe Cable Railing are available in PPG Duracron paint, anodized, and duranodic finishes.



White



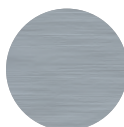
Black



Satin Anodized



1 Hour Anodized



1 Hour Brushed Anodized



Almond



Tan/Wicker



Sandstone/Clay



Light Bronze



Dark Bronze



Why Superior Aluminum?

- All Superior Aluminum railing is assembled in-house to the exact size and scope of the project, no complicated or time-consuming kits for installers to deal with!
- Each railing that leaves the Superior facility is built to meet all of the code requirements in the destination area
- A majority of Superior Aluminum employees can boast over 25 years with the company, a rare level of overall experience
- Superior Aluminum has been manufacturing high-quality aluminum for over 50 years, and is now on its third generation of family ownership

Ask about our complete line of Superior Aluminum Products:

- Series 9000 Heavy-Duty Aluminum Railing
- Series 9100 Architectural Aluminum Railing
- Series 2000 Aluminum Cable Railing
- Series 600 Custom Residential Railing
- Series 7000 Aluminum Picket Fence & Custom Gates
- Series 9H Aluminum Horizontal Railing
- Series 9P Aluminum Privacy Fence
- Aluminum Columns - Round & Square
- Fiberglass Columns - Round & Square



Aluminum Products, Inc.

555 East Main • P.O. Box 430 • Russia, OH 45363

937-526-4065 • Fax: 937-526-3904

info@superioraluminum.com • SuperiorAluminum.com



Series 9000 Heavy-Duty Railing



Series 2000 Cable Railing



Aluminum Columns



Series 7000 Picket Fence



Superior

Aluminum Cable Railing

SERIES
**2000
5C**

Modern Styling with a Virtually Unobstructed View!

www.superioraluminum.com



Series 2000 Sq. Post Cable Railing

Modern Styling with a Virtually Unobstructed View

By replacing standard pickets with stainless steel cables, your project can become a spectacle of modern architecture. The cable design creates a stunning unobstructed view without sacrificing design or safety.

Each Superior cable railing system is pre-assembled to the exact specifications of the project, easing the installation burden.

Durable, low-maintenance aluminum ensures each installation is a long-term solution.

Unblemished Design

Most cable systems require huge turnbuckles to secure cables along with unsightly support pickets... Superior cable railing requires neither!

Superior cable railing removes clutter by hiding all fittings within the post, erasing any potential deterrent to your project's beauty.



Series 2000 Square Post Cable Railing



Series 2000 Square Post Cable Railing



Series 2100 Three-Line Square Post Cable Railing with Series 500 Handrail



Series 2100 Three-Line Square Post Cable Railing



Series 5C Pipe Cable Railing

Unique Aesthetic Blending Modern and Industrial Styles

Switching out square components for round pipe transforms cable railing into a nearly unmatched blend of modern and industrial style without sacrificing unimpeded sightlines.

Each pre-assembled, job-specific, section of pipe cable railing is built with a high-quality schedule 40 aluminum pipe framework. The material quality protects against rusting, warping, and rotting for the life of a project.

No Bulky Fittings!

Pipe cable railing systems with giant turnbuckles or other bulky fastening equipment is the norm in the marketplace. At Superior, we don't conform to what others find acceptable. Instead, all fasteners in Series 5C Pipe Cable Railing are confined to the insides of the pipe framework, saving the aesthetics of your project.



The Superior Difference

There are many cable railing solutions on the market, so what sets Superior Aluminum apart from the "Other Guys?"



The "Other Guys"

The unmatched durability and strength of each Superior square and pipe cable railing component eliminates the need for the support picket commonly found in most cable railing systems!



Superior Aluminum



The "Other Guys"

Thanks to innovative post and cable technology, the giant, unsightly turnbuckles which feature prominently in other cable railing are nowhere to be found in Superior square or pipe cable systems!



Superior Aluminum

Finishes

Cable Railing is available in PPG Duracron paint, anodized, and duranodic finishes.

Series 2000 Series 2100 Series 5C				
	White	Black	Dark Bronze	Satin Anodized
Series 5C ONLY				
	Almond	Tan	Sandstone	Light Bronze

Why Superior Aluminum?

■ All Superior Aluminum railing is assembled in-house to the exact size and scope of the project, no complicated or time-consuming kits for installers to deal with

■ A majority of Superior Aluminum employees can boast over 25 years with the company, a rare level of overall experience

Ask about our complete line of Superior Aluminum Products:

- Series 9000 Heavy-Duty Aluminum Railing
- Series 9100 Architectural Aluminum Railing
- Series 500 Aluminum Pipe Railing
- Series 550 Aluminum Pipe Picket Railing
- Series 600 Custom Residential Aluminum Railing
- Series 7000 Aluminum Picket Fence & Custom Gates
- Series 9H Aluminum Horizontal Railing
- Series 9P Aluminum Privacy Fence
- Aluminum Columns - Round & Square
- Fiberglass Columns - Round & Square



Series 9000 Heavy-Duty Railing



Series 550 Pipe Picket Railing



Aluminum Columns



Series 7000 Picket Fence

Superior Aluminum Products, Inc.

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info@superioraluminum.com • SuperiorAluminum.com

Superior

Aluminum Residential
Railing & Columns

SERIES
600



Versatile Railing & Columns for Residential Use

www.superioraluminum.com

Superior

Custom Aluminum Residential Railings and Columns

SERIES
600

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.



Series 600 Railing with Decorative Inserts

Specify Superior Aluminum columns, inserts, and scrolls to add even more versatility to the Series 600 Railing.



Series 600 Railing with Superior Square Smooth Columns



Series 600 Railing with Series 600 Decorative Columns



Series 600 Railing with Superior Panel Columns



Series 600 Railing with Series 600 Decorative Columns



Series 600 Railing with Superior Round Fluted Columns

Finishes

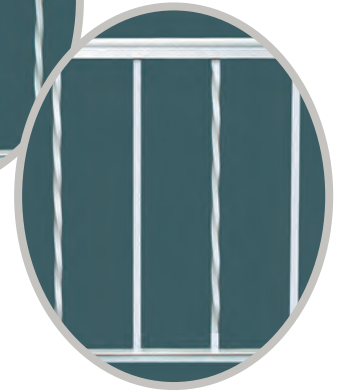
Seven decorative finishes add a distinctive touch to any building. Whether PPG Duracron paint or anodized, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.



Straight Pattern



Twisted Pattern

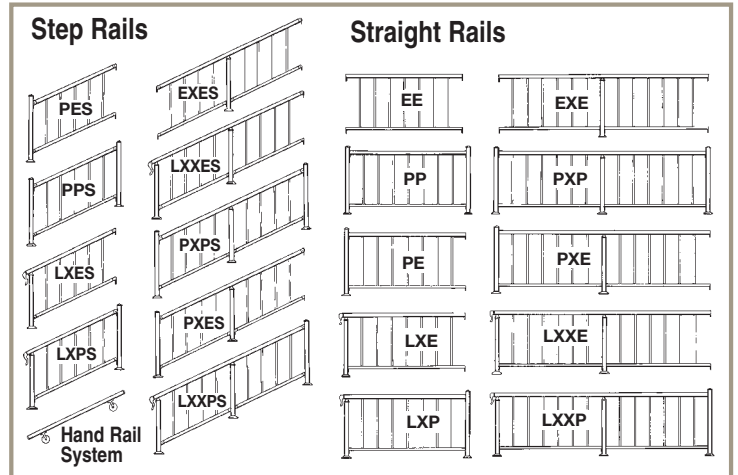


Straight & Twisted Pattern



Series 600 Railing with Superior Square Panel Columns.

Design Selections



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 4" 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.

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 numbers shown below.
Even numbers (302, 304, etc.) are 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 1-1/2" 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.

NOTE: Designs (352, 353, 354, and 355, marked with an asterisk), are shown as a 12" wide column.

Superior Aluminum Products, Inc.

555 E. MAIN STREET, P.O. BOX 430, RUSSIA, OHIO 45363

Phone (937) 526-4065

Fax (937) 526-3904

Our Website: www.superioraluminum.com

E-mail address: info@superioraluminum.com

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, anodized and mill.

Superior

Aluminum Picket Fence

SERIES
7000
700



Strong, Durable and Maintenance-Free Beauty!

www.superioraluminum.com



Series 7000/700 Aluminum Picket Fence

Strong, Durable, and Maintenance-Free Beauty!

Superior Series 7000 and 700 Picket Fence can be found where a touch of elegance, function and security are a must. This maintenance-free fencing is an excellent choice for perimeter and pool fencing, as well as dividers on residential, commercial, institutional, multi-housing and municipal installations.

Superior Picket Fence 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.

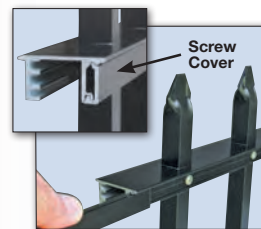
The smart, contemporary design is an added plus. Our unique, no-weld design utilizes simple, cast aluminum fittings or machined openings for a no-hassle, easy installation.

To make our fencing even more versatile, cast aluminum ornaments, inserts and scrolls are available to mount on top of posts and on pickets for a custom decorative appearance.

Superior Picket Fence comes with 2", 2 1/2" or 4" square posts and 3/4" square pickets with a formed spear, a cast spear or a flat top. Options for picket spacing include 3", 4 1/2" or 6" centers, as well as custom spacing.

Superior fencing comes in standard 6' lengths, as well as custom lengths, in 2, 3 or 4-line styles. Ordering standard 6' lengths reduces lead times and cost.

Fencing is also available in any height. Standard heights include 60" and 72". For heights above 60", 3 or 4-line styles are recommended.



NEW! Concealed Picket Screws

A new product design for Series 7000 and 700 Fence features a screw cover to conceal picket screws on top and bottom rail assemblies for a cleaner, more streamlined look.

Finishes

Smart, decorative finishes add a distinctive touch. Whether PPG Duracron Paint, anodized or duranodic, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.

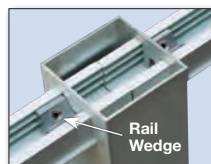


SERIES 7000



Series 7000 Picket Fence features machined post openings, eliminating the need for brackets. The result is a clean, rigid design with added strength.

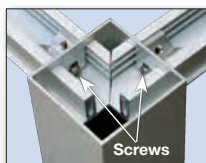
Easy Assembly and Installation!



View of the underside of bottom rail to show rail wedge location.



Tightening rail wedge on shortened section.



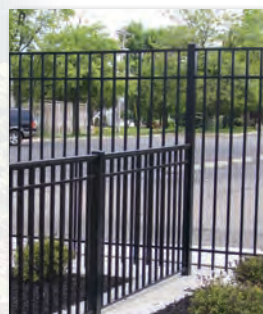
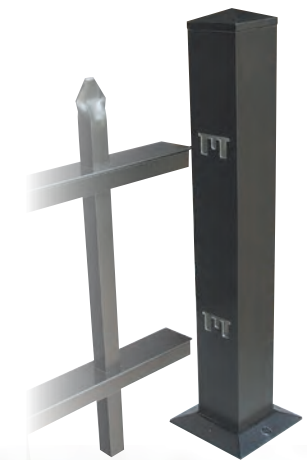
Rail wedge screws to secure corner and end posts.

Series 7000 Picket Fence 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 posts are machined with openings to receive top and bottom rails. If the fence is angled vertically or horizontally, specify the angle so the proper openings can be machined into the post. As assembled fence is inserted into the openings, rail wedges located in the top and bottom rails will ensure proper insertion of 1 1/4" inside the post.

If a fence section or sections need to be shortened, simply saw an equal amount from each rail end with the use of a miter or circular saw. Reinstall and tighten the rail wedge using an 1/8" Allen Wrench on both the top and bottom rails so 1 1/4" protrudes through the post openings.

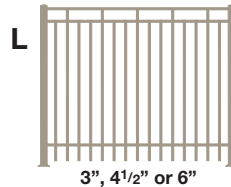
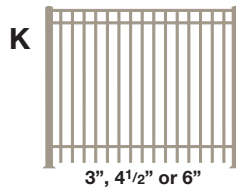
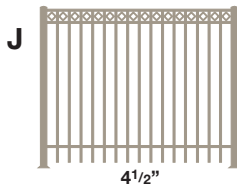
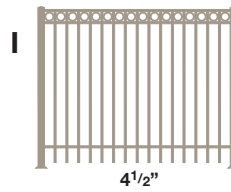
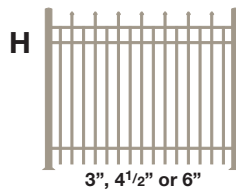
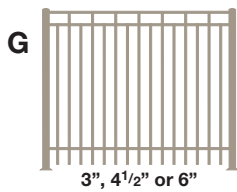
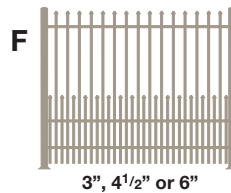
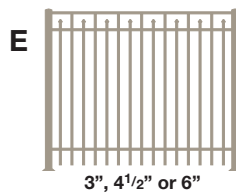
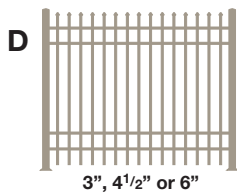
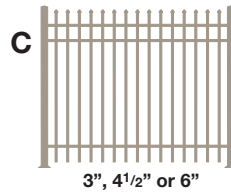
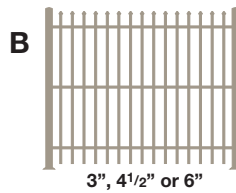
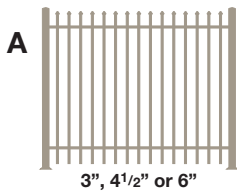
For securing a corner or end post, a screw is provided for each rail wedge to prevent the post from moving outward.





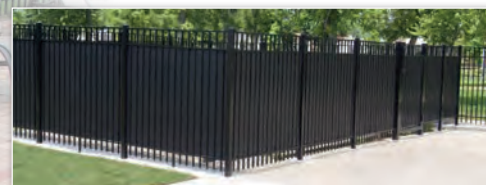
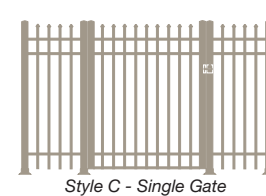
Picket Fence Design Styles

To order, choose design A, B, C, etc., and specify picket center spacing.



Custom Aluminum Gates

Superior manufactures attractive, aluminum gates to any size and design configuration. The durable, all-welded gate construction coupled with electrostatic painting or anodizing, means years of trouble-free service. Gates can be equipped with standard or custom security locks. See example gate configurations below.



Ask about snap-in privacy liner to hide equipment and/or items out of view.

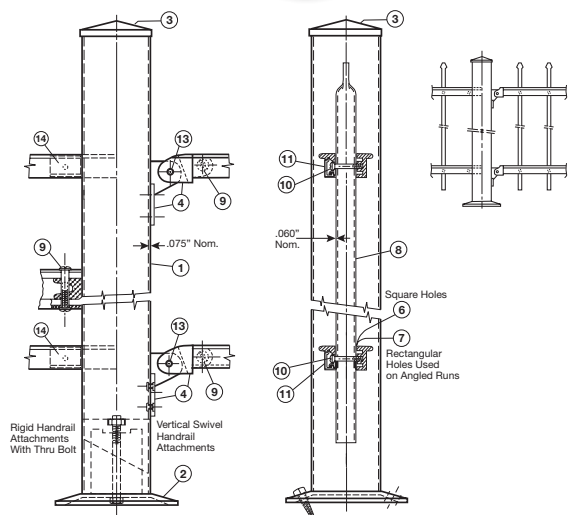
Assembly Identification

Component Parts

SERIES 7000



Note: Series 7000 Fence is assembled with machined post openings.

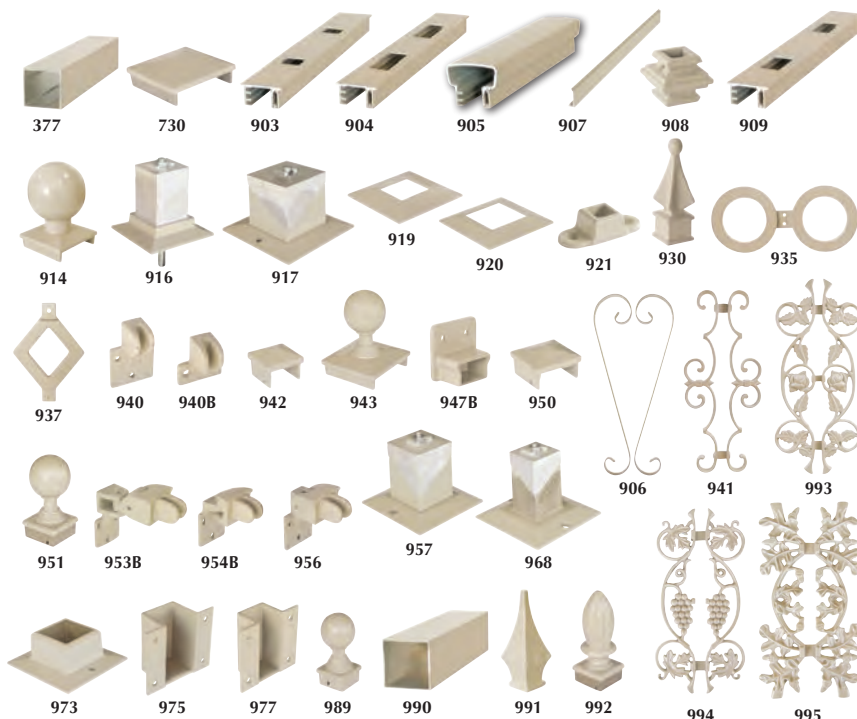
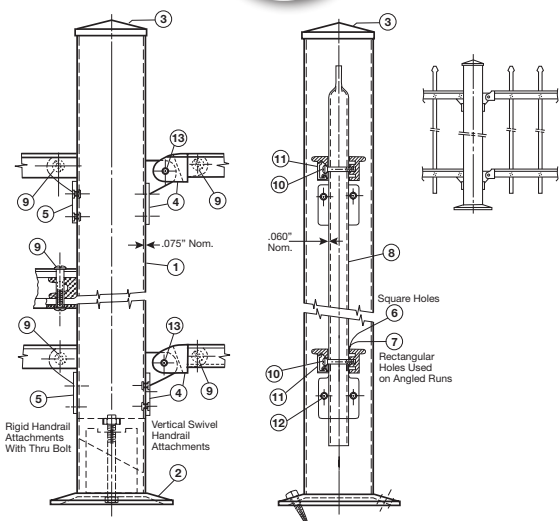


1. 990 2 1/2" Tube .075" Wall
2. 957 Base Assembly
3. 950 Post Cap
4. 956 Swivel Brkt. Assembly
5. 940 End Bracket - Rigid
6. 903 Rail - Square Hole
7. 904 Rail - Rectangular Hole
8. 3/4" Square Picket
9. 912 1/4" Binder Bolt
10. 910 Picket Screws
11. Screw Cover
12. 915 5/32" Dia. Rivets
13. 3/16" Dia. "Rollpin"
14. Rail Wedge

SERIES 700



Note: Series 700 Fence is assembled with brackets.



Parts Description

- | | | | |
|-----|---|------|--|
| 377 | 2" Sq. - 16' white only & 18' Lgths. | 937 | 3 3/4" Cast Diamond |
| 730 | Cap for 4" Post | 940 | End Brkt. for Top & Bottom Rail |
| 903 | Bottom Rail (Sq. Hole)
1 5/8" w x 3/4" h,
16' white only & 18' Lgths. | 940B | End Brkt. for #903 Bottom Rail |
| 904 | Bottom Rail (Rect. Hole)
1 5/8" w x 3/4" h,
16' white only & 18' Lgths. | 941 | 17" Cast "Fleur De-Lis" Insert |
| 905 | Top Rail - 2" w x 1 5/8" h
18' & 24' Lgths. | 942 | Cap for 2" Post |
| 906 | 17" Heart Scroll | 943 | Post Ball Cap for 4" Post with
2 1/2" Diameter Ball |
| 907 | Screw Cover (For Top & Bott. Rail)
18' & 24' Lgths. | 947B | Adj. End Fitting Bottom |
| 908 | Picket Collar | 950 | Cap for 2 1/2" Post |
| 909 | Bottom Rail (1 1/2" w Hole)
16' white only & 18' Lgths. | 951 | Post Ball Cap for 2 1/2" Post |
| 914 | Post Ball Cap for 4" Post with
4" Diameter Ball | 953B | 2-Way Swivel Bottom |
| 916 | 2 1/2" Wedge Base with Stud | 954B | Horiz. Swivel Brkt. Bottom |
| 917 | Wedge Base for 4" Post | 956 | Vertical Swivel Bottom |
| 919 | 2" Slip Over Base | 957 | Base for 2 1/2" Post (wedge type) |
| 920 | 2 1/2" Slip Over Base | 968 | Base for 2" Post (Wedge Type) |
| 921 | 3/4" Square Base | 973 | Heavy Duty Base for 2 1/2" Post |
| 930 | Cast Picket Spear - 4" High | 975 | Side Mount Brkt. for 2 1/2" Post |
| 935 | 3 3/4" OD Double Ring | 977 | Side Mount Bracket for 2" Post |
| | | 989 | Post Ball Cap for 2" Post |
| | | 990 | 2 1/2" Sq. - 16' white only & 18' Lgths. |
| | | 991 | Picket Spear |
| | | 992 | Post Finial for 2 1/2" Post |
| | | 993 | Cast Rose Snap-on Picket Insert |
| | | 994 | Cast Grape Snap-on Picket Insert |
| | | 995 | Cast Oak Snap-on Picket Insert |

Specifications

MATERIALS - All rails, posts, and pickets 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 fencing system shall consist of 2 1/2" or 4" square posts that can be either base mounted or embedded into concrete. The rails shall be a minimum of 1 5/8" wide. Pickets shall be 3/4" square on 3", 4 1/2", or 6" centers.

Superior Aluminum Products, Inc.

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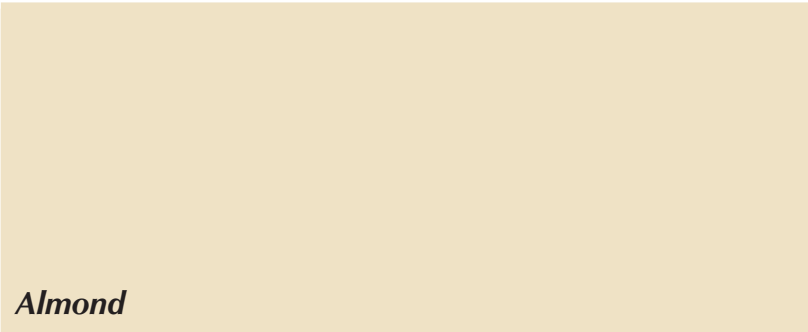
Light Bronze



Tan / Wicker



Satin Anodized



Almond



Dark Bronze



Sandstone / Clay



Black

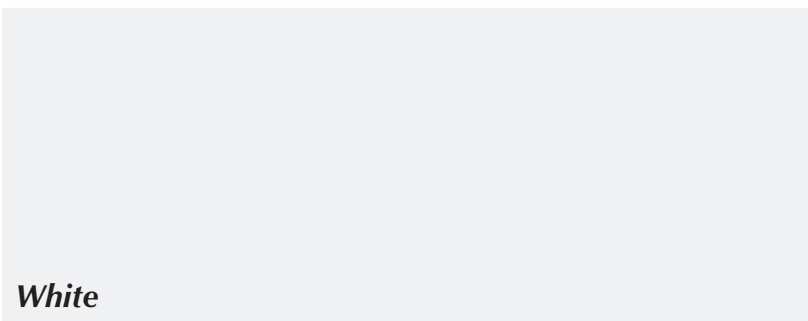


Brown

Finish option availability is subject to specific product lines. Please view individual product brochures to confirm that your desired finish is compatible with your desired product line.

Additional colors available for added fee.

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.



White



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