

CLEM'S

ORNAMENTAL IRON WORKS

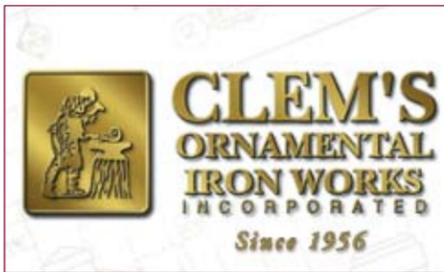
Architectural Metal Fabricators

Since 1956



EVOLUTION OF A COMPANY • EVOLUTION OF A COMPANY • EVOLUTION OF A COMPANY

HEADQUARTERS & DESIGN CENTER • HEADQUARTERS & DESIGN CENTER • HEADQUARTERS & DESIGN CENTER



EVOLUTION OF A COMPANY

Clem's Ornamental Iron Works is New Jersey's largest manufacturer of ornamental aluminum and iron architectural products. From modest beginnings in New Jersey in 1956, Clem's now services all of its clients through a large manufacturing headquarters facility and a separate walk-in retail design center -- clients ranging from large scale multi-story commercial real estate developers all the way through single family residential accounts. For over fifty years successive generations of the family have taken old world pride and craftsmanship and melded those sacred principles with modern techniques and state-of-the-art machinery to create outstanding architectural products of unrivaled form and beauty.

Clem's fabrications feature all welded-designs wrested from aluminum, iron, and steel components that are notable for their exceptional strength and durability. Many of Clem's competitors produce their railings via snap and screw assembly of parts which will inevitably loosen and weaken over time. All Clem rail systems are welded together to provide rigid, solid integrity in the fabrication design and then protected with an air-tight baked-on powder-coated finish that will last for years and years.

There is no limit to the types of architectural metalwork that Clem's can create. From delicate, elaborately detailed fabrications to sturdy, ultra-functional designs, Clem's creates real-world products tailored to an architect or designer's unique vision. Through an eclectic mixture of rails, pickets, posts, and ornamental enhancements, fabrications which project a distinctive identity matching any individual's personal taste and budget are routinely provided by Clem's staff of professional craftsmen. And all rail systems are designed, engineered, and constructed to meet or exceed federal safety requirements and are ADA compliant.

PARTIAL CLIENT LIST OF COMMERCIAL REAL ESTATE DEVELOPERS

Atlantic Realty	Garden Homes	PRC Group
Avalon Bay Communities	Ginsburg Development	Premier Homes
Bovis Lend Lease	Griffon Associates	Pulte Homes
Baker Residential	K. Hovnanian Company	Ritz Carlton Hotels
Centex Homes	March Associates	Roseland Contractors
Continental Properties	Kalian Company	Sterling Properties
Country Classics	Matzel Development	Tishman Construction
Edgewood Properties	Matzel & Mumford	Turner Construction

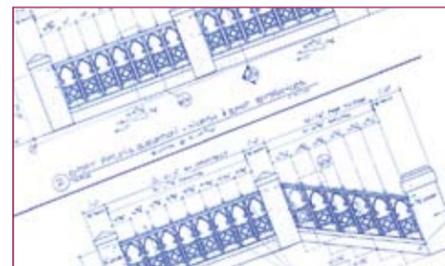
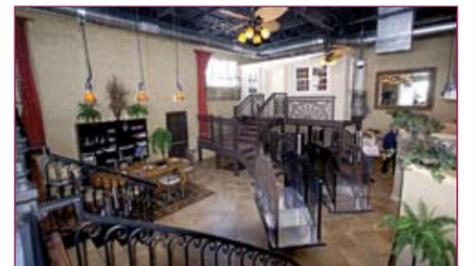
HEADQUARTERS

After years of successful growth and expansion, Clem's fabrication operation currently operates out of a 50,000 square foot manufacturing headquarters in Piscataway New Jersey. All phases of Clem's factory operations (engineering, fabrication, welding, powder-coating finishing, quality control, installation, billing, and administration) efficiently function under one roof providing each client with a seamless path from project authorization through to final project completion.

Fabrications are created by one of the best-trained and experienced staffs in the trade -- skilled artists who actually pride themselves in the unrivaled quality of their craftsmanship. The Piscataway headquarters also serves as home base to a fleet of Clem's delivery trucks and installation crews which are dispatched daily to all points in the tri-state area.

DESIGN CENTER

In response to the continuing growth and development of the company's business in all sectors of the industry, Clem's expanded it's facilities and services to include a satellite Design Center devoted to the needs and concerns of the customers. Located on Route 22 East in Green Brook, New Jersey, the Design Center features a 2,000 square foot showroom complete with full mock-ups of Clem's product line and design services. With a customer-friendly showroom located far from the bustle and hum of the manufacturing facility, customers are encouraged to wander the floor, examine the fabrications and options on display, draw plans, discuss concepts, view drawings and blueprints, and step-by-step arrive at the ideal design solution for their project. The Design Center offers a quiet spacious showcase for the widely diverse and functionally decorative solutions that Clem's offers the discriminating customer.





ALUMINUM RAILINGS

Aluminum railings are the most-requested item in Clem's Ornamental Iron Works collection of fine custom architectural fabrications. Aluminum railings, in addition to providing a great measure of safety to people and property, also provide a strong visual enhancement or statement to any building or landscape, inviting and directing the eye towards an appreciation of the underlying architectural lines and themes, contributing to the viewers overall impression and sense of a design esthetic.

With a wide variety of extrusion styles and post/rail component combinations, Clem's can design a railing system that will visually complement and complete any architectural plan, functioning as an extended interpretation and/or expression of the elements suggested or implied in the design.

Aluminum is a highly-regarded construction material with exceptional structural properties -- a strong but lightweight metal that, when extruded and formed, is naturally resistant to the unremitting forces of nature -- water, rust and corrosion.

Clem's aluminum railings, fabricated from only the highest quality aluminum extrusions, are not only a durable, practical investment for the smart budget-minded customer, but will complement the style and design of any property or structure. Clem's aluminum railings have been installed with striking



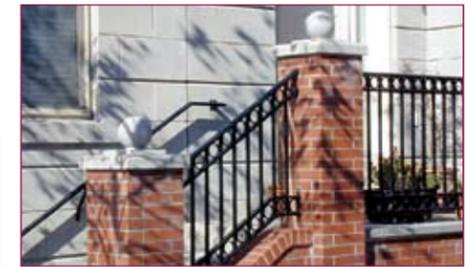
ALUMINUM RAILINGS

results in a wide range of architectural applications -- single family homes, multi-family residential communities, high-density urban developments, and commercial office/hotel properties.

Clem's Ornamental Iron Works manufactures aluminum railing systems utilizing top cap/rail, bottom channel, and post construction utilizing vertical pickets for the "in-fill" area between, a design which minimizes the possibility of climbing by small children that is inherently present in laterally "in-filled" railing system designs.

Available in a wide array of component styles, Clem's all-aluminum railing assemblies are always welded, ground, and polished to strict fabrication standards, producing a railing system of unrivalled structural integrity -- no screws or snap assemblies are ever substituted to compromise the performance or longevity of a Clem's aluminum railing. Clem's baked-on powder-coated color treatments crown the process with a finish that will resist the ill effects of time, sunlight, and weather with minimal owner maintenance for many many years to come.

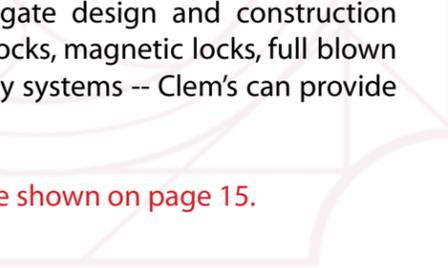
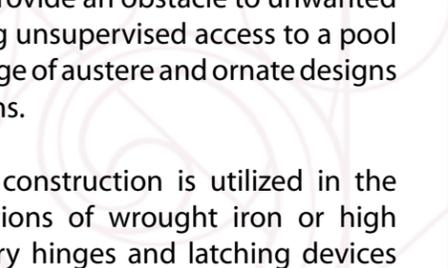
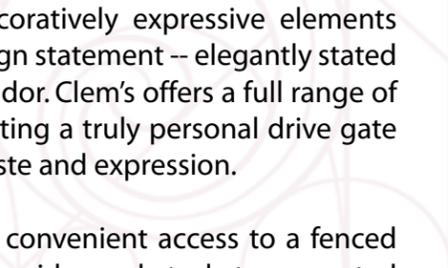
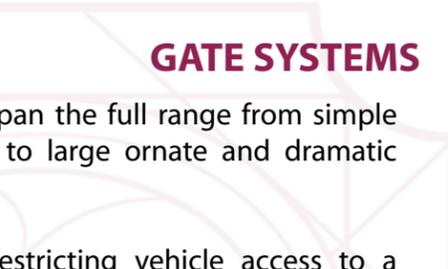
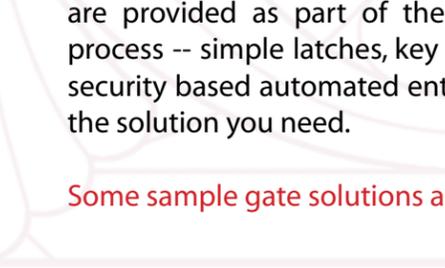
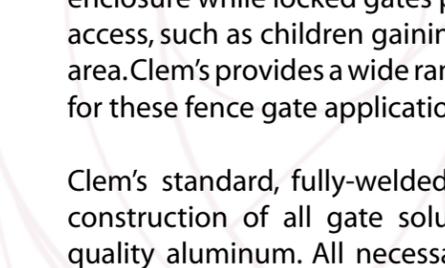
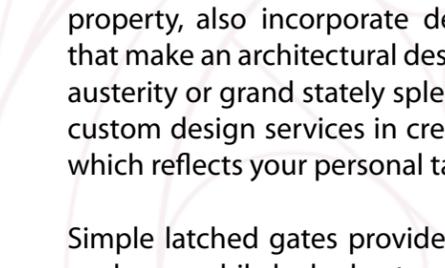
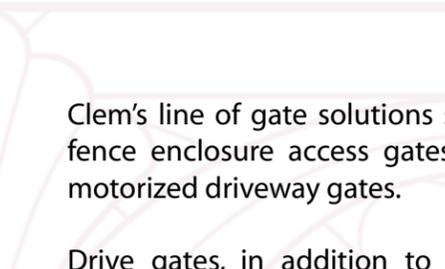
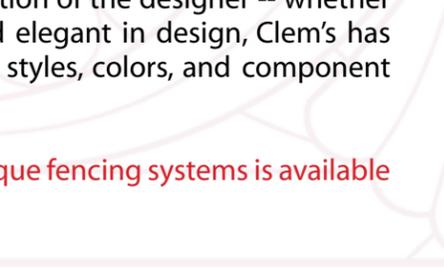
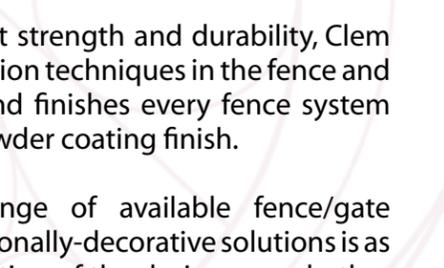
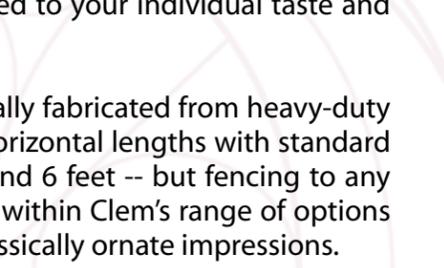
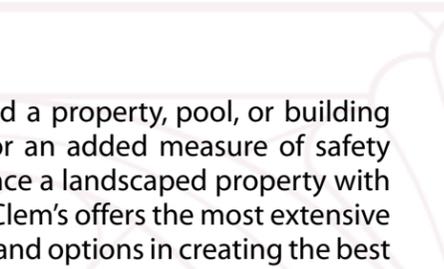
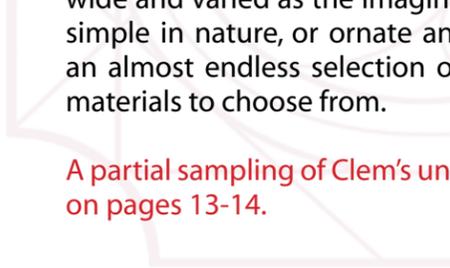
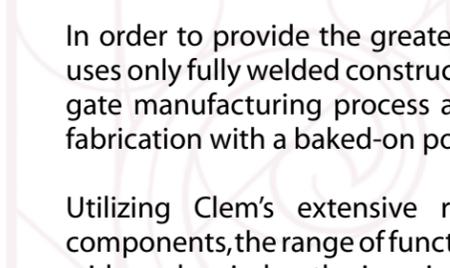
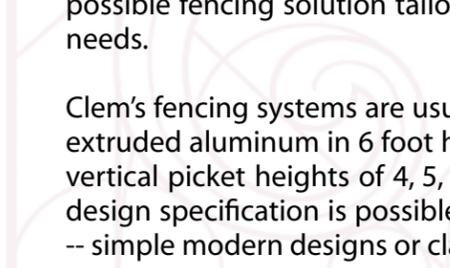
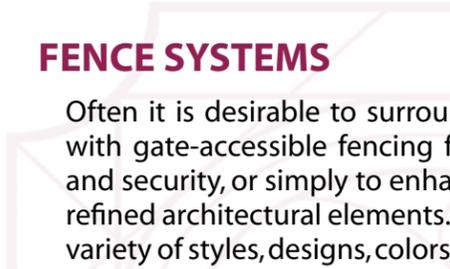
A visual layout of the available mix-and-match aluminum railing components and options can be found on pages 11-12.





FENCE SYSTEMS • FENCE SYSTEMS • FENCE SYSTEMS • FENCE SYSTEMS • FENCE SYSTEMS

GATE SYSTEMS • GATE SYSTEMS • GATE SYSTEMS • GATE SYSTEMS • GATE SYSTEMS



FENCE SYSTEMS

Often it is desirable to surround a property, pool, or building with gate-accessible fencing for an added measure of safety and security, or simply to enhance a landscaped property with refined architectural elements. Clem's offers the most extensive variety of styles, designs, colors, and options in creating the best possible fencing solution tailored to your individual taste and needs.

Clem's fencing systems are usually fabricated from heavy-duty extruded aluminum in 6 foot horizontal lengths with standard vertical picket heights of 4, 5, and 6 feet -- but fencing to any design specification is possible within Clem's range of options -- simple modern designs or classically ornate impressions.

In order to provide the greatest strength and durability, Clem uses only fully welded construction techniques in the fence and gate manufacturing process and finishes every fence system fabrication with a baked-on powder coating finish.

Utilizing Clem's extensive range of available fence/gate components, the range of functionally-decorative solutions is as wide and varied as the imagination of the designer -- whether simple in nature, or ornate and elegant in design, Clem's has an almost endless selection of styles, colors, and component materials to choose from.

A partial sampling of Clem's unique fencing systems is available on pages 13-14.

GATE SYSTEMS

Clem's line of gate solutions span the full range from simple fence enclosure access gates to large ornate and dramatic motorized driveway gates.

Drive gates, in addition to restricting vehicle access to a property, also incorporate decoratively expressive elements that make an architectural design statement -- elegantly stated austerity or grand stately splendor. Clem's offers a full range of custom design services in creating a truly personal drive gate which reflects your personal taste and expression.

Simple latched gates provide convenient access to a fenced enclosure while locked gates provide an obstacle to unwanted access, such as children gaining unsupervised access to a pool area. Clem's provides a wide range of austere and ornate designs for these fence gate applications.

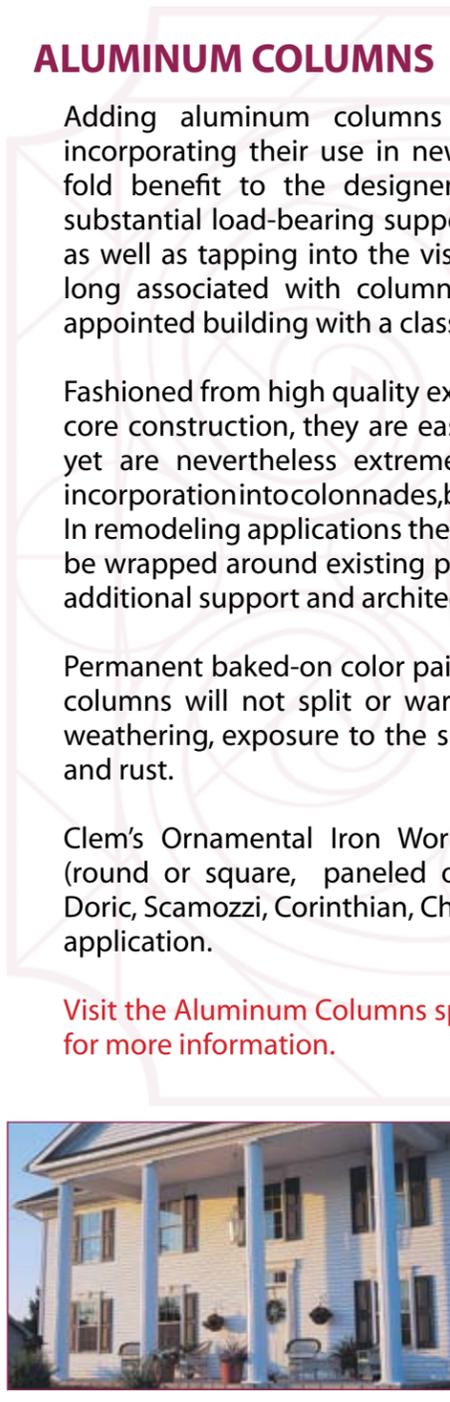
Clem's standard, fully-welded construction is utilized in the construction of all gate solutions of wrought iron or high quality aluminum. All necessary hinges and latching devices are provided as part of the gate design and construction process -- simple latches, key locks, magnetic locks, full blown security based automated entry systems -- Clem's can provide the solution you need.

Some sample gate solutions are shown on page 15.



ALUMINUM COLUMNS • ALUMINUM COLUMNS • ALUMINUM COLUMNS

CUSTOM FABRICATION • CUSTOM FABRICATION • CUSTOM FABRICATION



ALUMINUM COLUMNS

Adding aluminum columns to an existing structure or incorporating their use in new construction provides a two-fold benefit to the designer/engineer -- columns provide substantial load-bearing support to a building's infrastructure as well as tapping into the visually-rich architectural heritage long associated with columned structures, granting the so appointed building with a classical and stately demeanor.

Fashioned from high quality extruded aluminum with a hollow core construction, they are easy to handle and assemble, and yet are nevertheless extremely strong -- they can sustain incorporation into colonnades, balconies, doorways, and porticos. In remodeling applications there are column styles designed to be wrapped around existing posts/beams/columns to provide additional support and architecturally visual refinement.

Permanent baked-on color paint finishes guarantee that these columns will not split or warp and will resist the effects of weathering, exposure to the sun, and the agents of corrosion and rust.

Clem's Ornamental Iron Works offers a variety of formats (round or square, paneled or fluted) and styles (Standard, Doric, Scamozzi, Corinthian, Charleston) perfect for any design application.

Visit the [Aluminum Columns specifications section on page 17](#) for more information.

CUSTOM FABRICATION

In addition to the relatively standard railing and fence configurations that Clem's routinely manufactures, custom designed fabrications for unique, custom applications, both large and small, remains one of the most sought after resources in Clem's extensive and time-tested skill set. Widely recognized as the "go-to" resource, Clem's Ornamental Iron Works is routinely sought out and entrusted with the task of fabricating products that are defined and constrained by an inherently high degree of complexity and difficulty.

Sometimes the requested items are simply out of the industry's mainstream manufacturing pipeline -- stairs (standard, curved, spiral), ladders, mailboxes/stands, steel beams, I-beams, flitch plates, trash racks, pipe railings, basin gratings, trench/frame grates, window guards, decorative covers, lattices, trellises, towers, custom enclosures, architectural structures/ornamental designs, and so on.

Any project or item that derives benefits from the strength and durability of aluminum, iron, or steel can be engineered and fabricated by Clem's Ornamental Iron Works. In addition to traditional materials, Clem's can also fabricate products from a variety of specialty metals such as brass, bronze, and stainless steel.

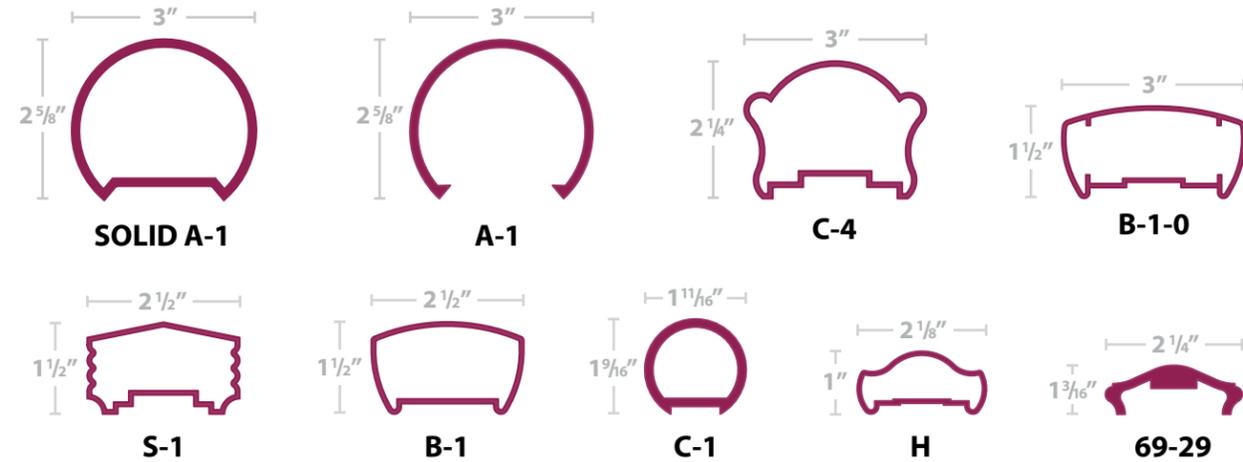
With the most experienced staff in the business, Clem's is uniquely qualified and positioned to handle custom projects of any size and scope.





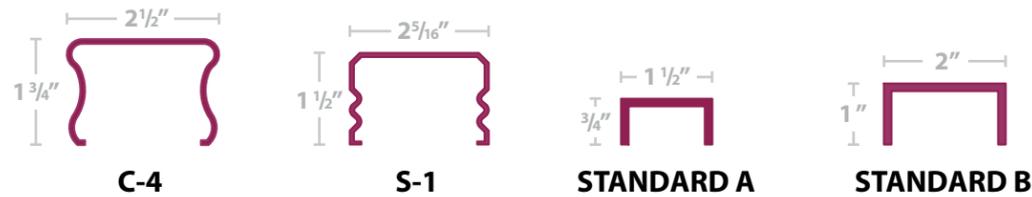
ALUMINUM RAILING EXTRUSIONS (Cross-Sections)

TOP RAILS



Oversized sleeve of top rail extrusions are used for connecting the rail to the wall.

CHANNELS/BOTTOM RAILS



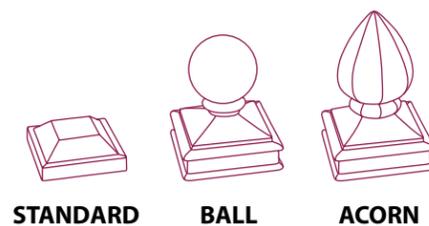
PICKETS/BALUSTERS



POSTS

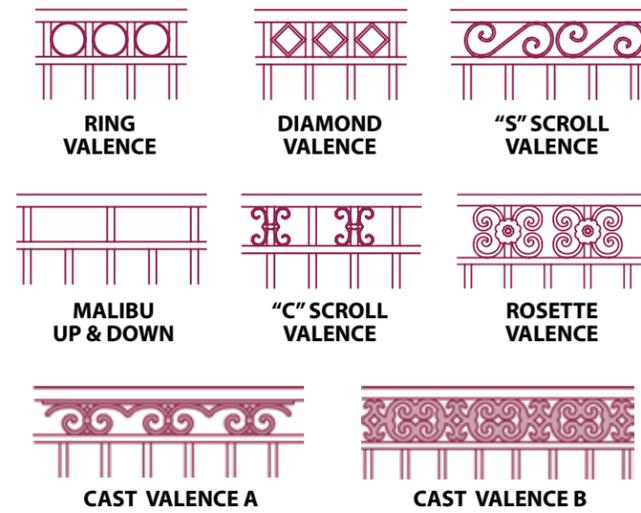


POST CAPS

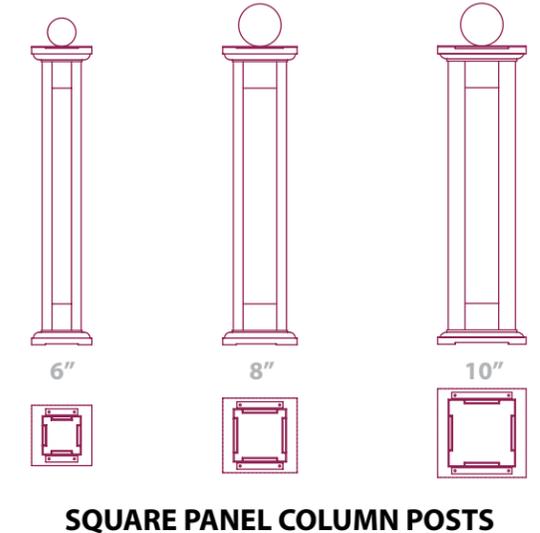


ALUMINUM RAILINGS

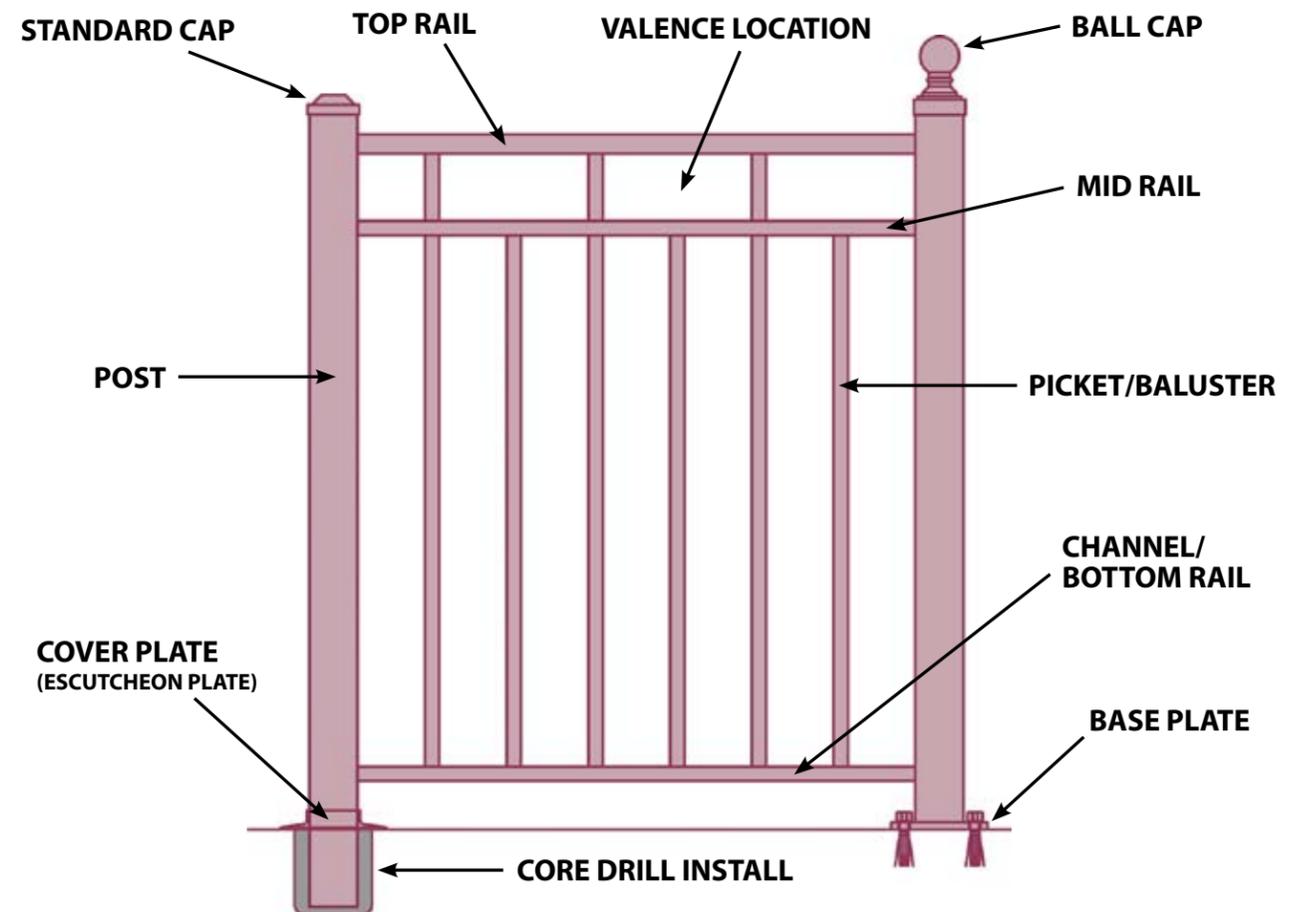
VALENCES



NEWELL POSTS



ANATOMY OF A RAILING/FENCE



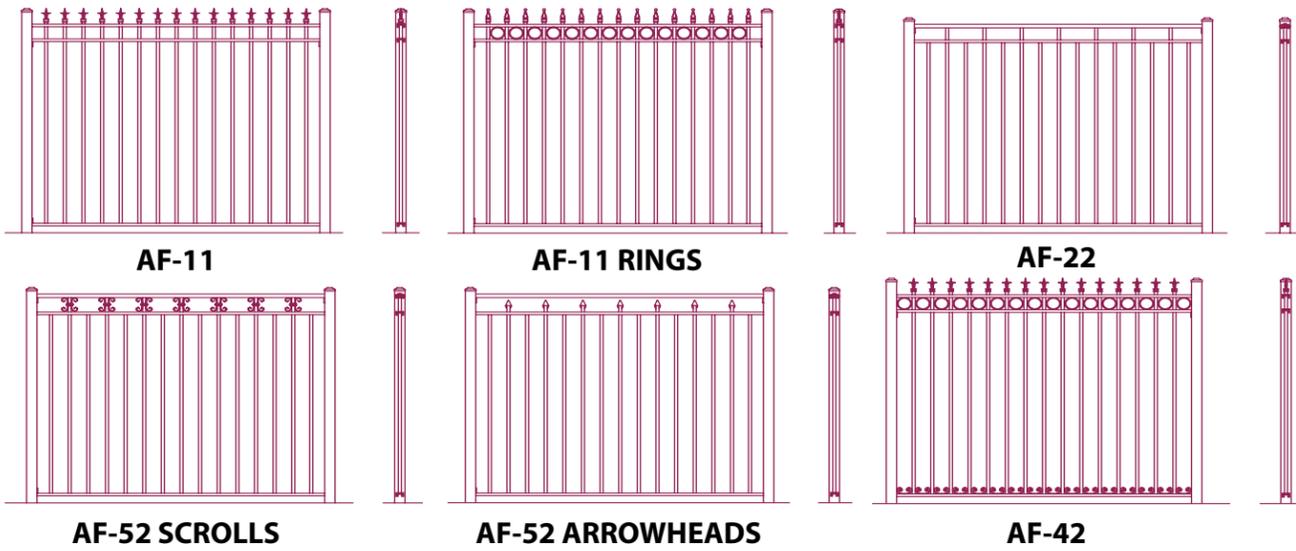
ALUMINUM RAILING EXTRUSIONS • ALUMINUM RAILINGS

ALUMINUM RAILINGS • ALUMINUM RAILINGS

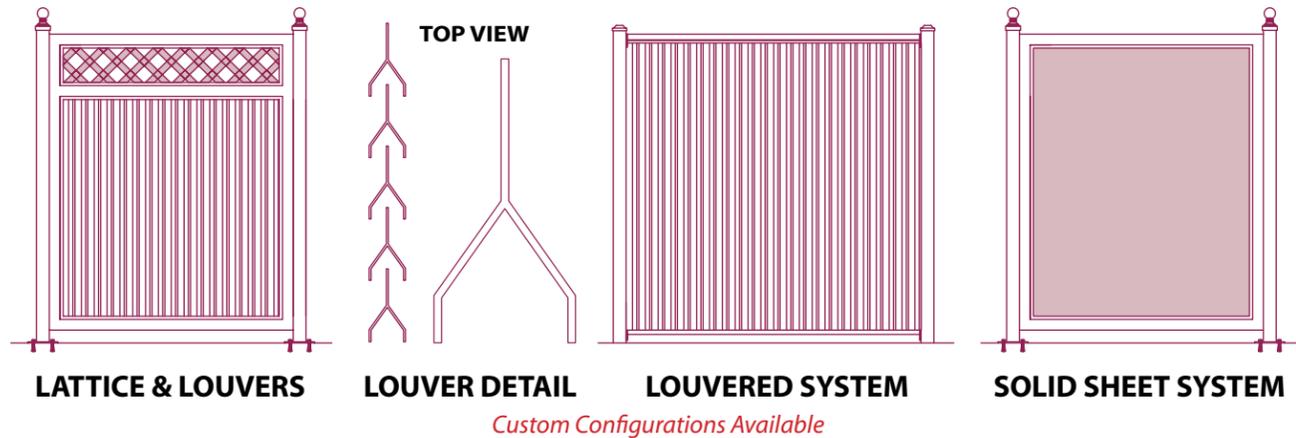


FENCE & RAILING COMPONENTS

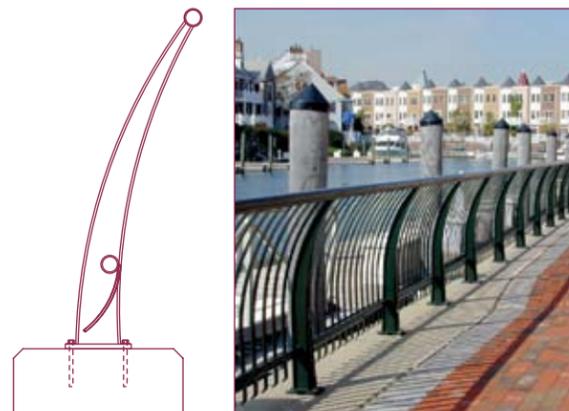
FENCE ELEVATIONS



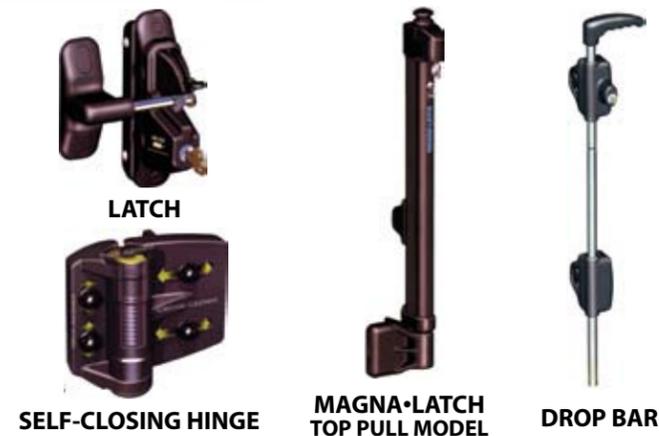
TERRACE DIVIDERS & PRIVACY PANELS



WATERFRONT RAIL SYSTEM

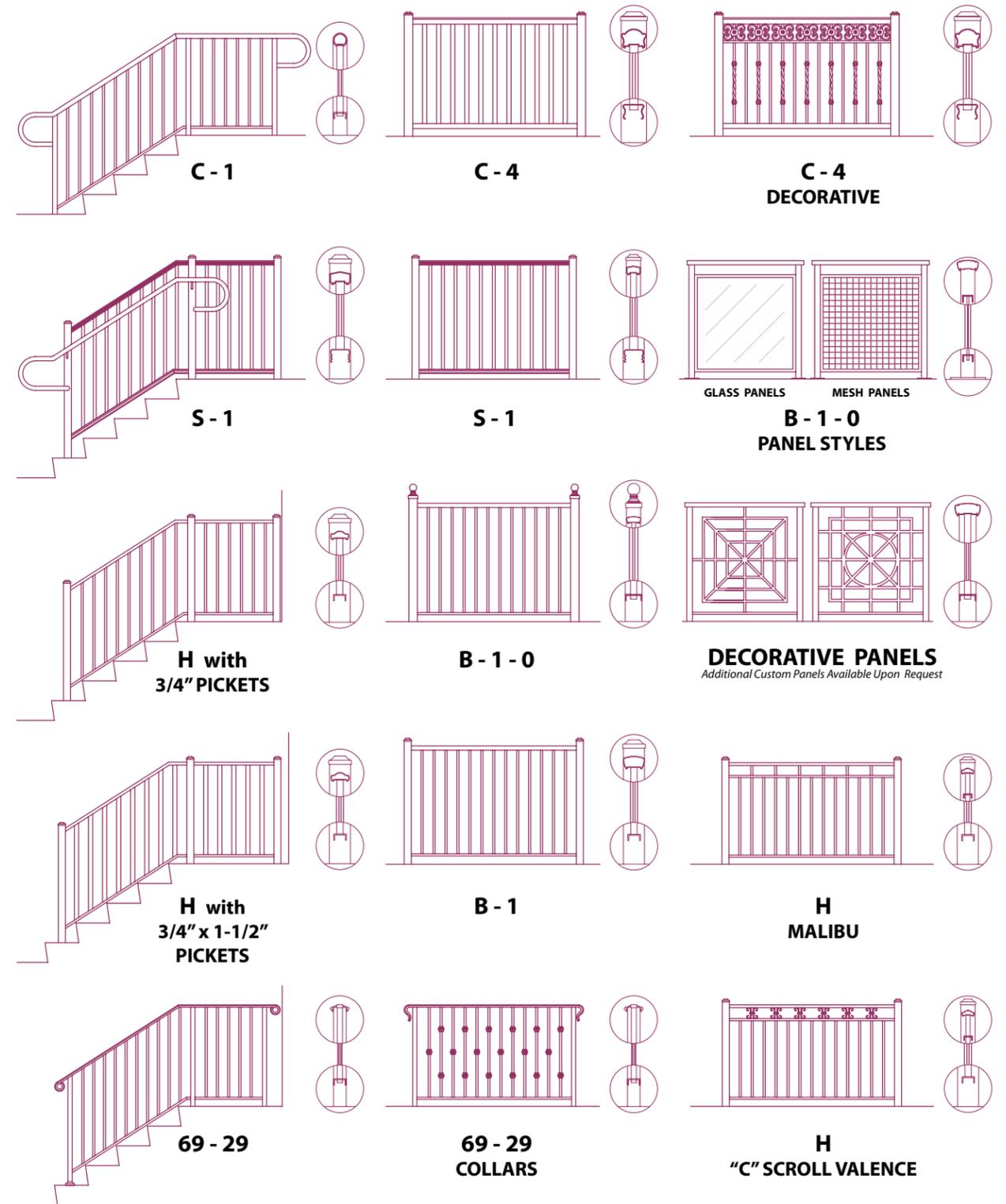


FENCE AND WALK GATE ACCESSORIES



FENCE & RAILING COMPONENTS

RAILING & GUARDRAIL ELEVATIONS



FENCE & RAILING COMPONENTS • FENCE & RAILING COMPONENTS

FENCE & RAILING COMPONENTS • FENCE & RAILING COMPONENTS

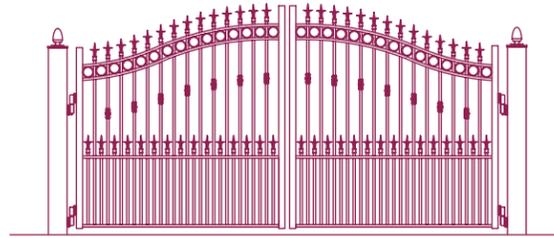


COMPONENTS • GATES SYSTEM COMPONENTS • GATE SYSTEM COMPONENTS

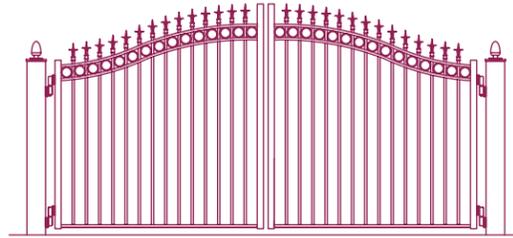
COMPONENTS • GATES SYSTEM COMPONENTS • GATE SYSTEM COMPONENTS

GATE SYSTEM COMPONENTS

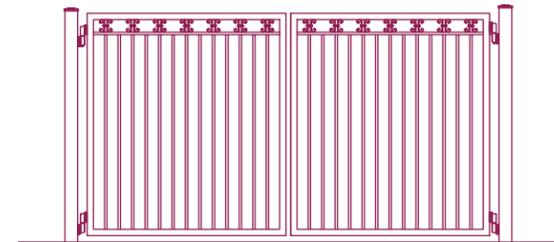
DRIVE GATES*



DG-12



DG-42



DG-44



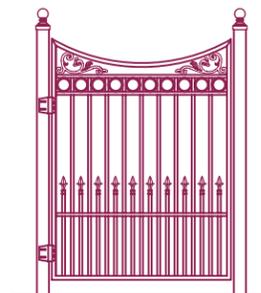
DG-52



CUSTOM DRIVE GATE

** Custom drive gates can be created on our CAD systems, limited only by your imagination.*

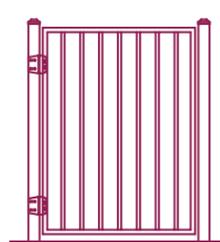
WALK GATES



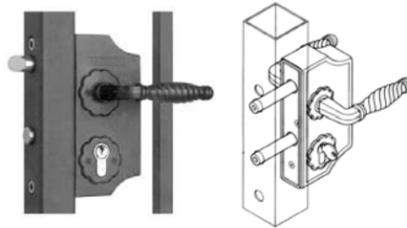
DECORATIVE WALK GATE



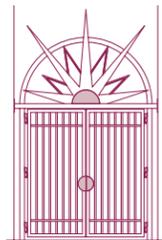
POOL WALK GATE



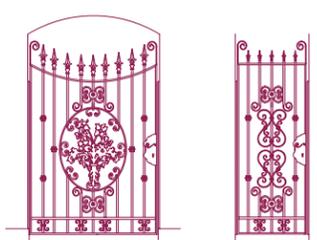
STANDARD WALK GATE



LOCK SYSTEM WITH KEY



SUNBURST WALK GATE



WINE ROOM GATES



CUSTOM WALK GATE

DECORATIVE COMPONENTS

IRON & ALUMINUM PICKETS & SCROLLS*



S-9



S-10



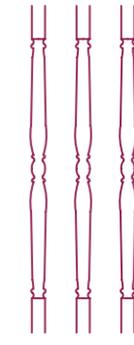
S-12



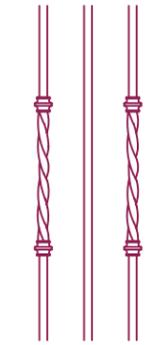
S-12 WITH TWISTED PICKETS



DOUBLE-FACED "C" SCROLLS



COLONIAL PICKET

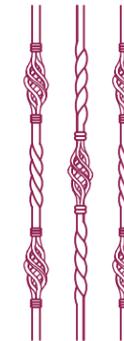


ALTERNATING FLAT BAR TWIST

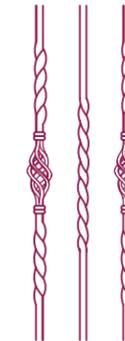
TWISTED PICKETS & BASKETS*



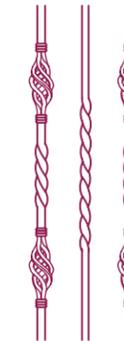
ALTERNATING SINGLE/DOUBLE COLLARS



ALTERNATING SINGLE/DOUBLE BASKETS



ALTERNATING BASKETS & TWISTED PICKET



ALTERNATING DOUBLE BASKET & TWISTED PICKET

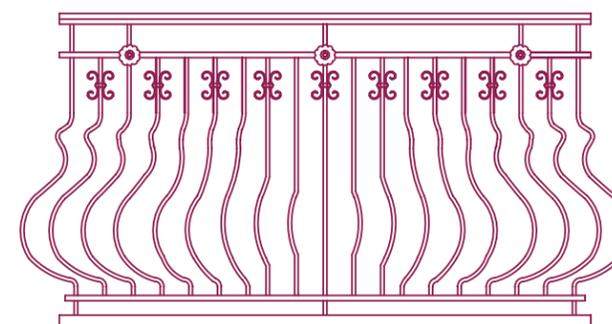


HAMMERED EDGE WITH SINGLE BASKET



ALTERNATING SINGLE/DOUBLE BASKETS ON ROPE

FAUX BALCONY*



FAUX BALCONY WITH ALUMINUM FLOOR SYSTEM

** Illustrations for rendering purposes only*





ALUMINUM COLUMNS

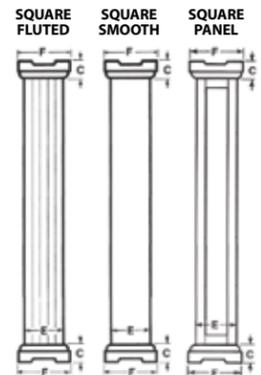
Fashioned from high quality extruded aluminum with a hollow core construction that makes them extremely easy to handle and assemble, these columns are nevertheless extremely strong and can be used as load bearing structural elements in almost any architectural application (colonnades, balconies, doorways, porticos, etc.). Available in both square and round versions.

SQUARE COLUMNS

4" columns are available with the Standard cap and base only. All other size columns are available with the Standard, Doric, and Charleston cap and the Standard and Doric base. The all-snap Polymer Composite cap and base is available in the 6" and 8" width only.



SQUARE COLUMNS -- DIMENSIONS & LOAD DATA



SQUARE COLUMNS - CAPS & BASES/WIDTHS & HEIGHTS															
NOMINAL WIDTH	ACTUAL WIDTH			POLYMER COMPOSITE		STANDARD		DORIC		CHARLESTON		STANDARD LENGTHS IN FEET	NO. OF STAVES	LOAD LBS.	
	Square Smooth	Square Fluted	Square Panel	E	C	F	C	F	C	F	C				F
4"	-	-	-	4	-	-	1 3/8	6	-	-	-	-	2	-	12,000
6"	6"	6"	6"	5 1/2	2	8 1/2	2	8 1/2	3 3/4	10 1/2	6 1/2	9 1/4	4	4	12,000
8"	8"	8"	8"	7 1/2	2	10 1/2	2	10 1/2	3 3/4	12 1/2	6 1/2	11 1/4	4	4	18,000
10"	10"	10"	10"	9 1/2	-	-	2 15/16	12 1/2	3 3/4	14 1/2	6 1/2	13 1/4	4	4	25,000
12"	12"	12"	12"	11 1/2	-	-	2 1/2	15	3 3/4	16 1/2	10	17 1/4	4	4	27,000
16"	16"	16"	16"	15 1/2	-	-	3	20	3 3/4	20 1/2	10	21 1/4	4	8	36,000

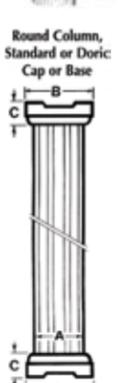
ROUND COLUMNS



NOTE: Column staves extend through the Polymer Composite, Standard and Doric caps and bases.

NOTE: Column staves extend into the Scamozzi and Corinthian Caps, up to the bearing plate that is welded to the top surface of each of these caps.

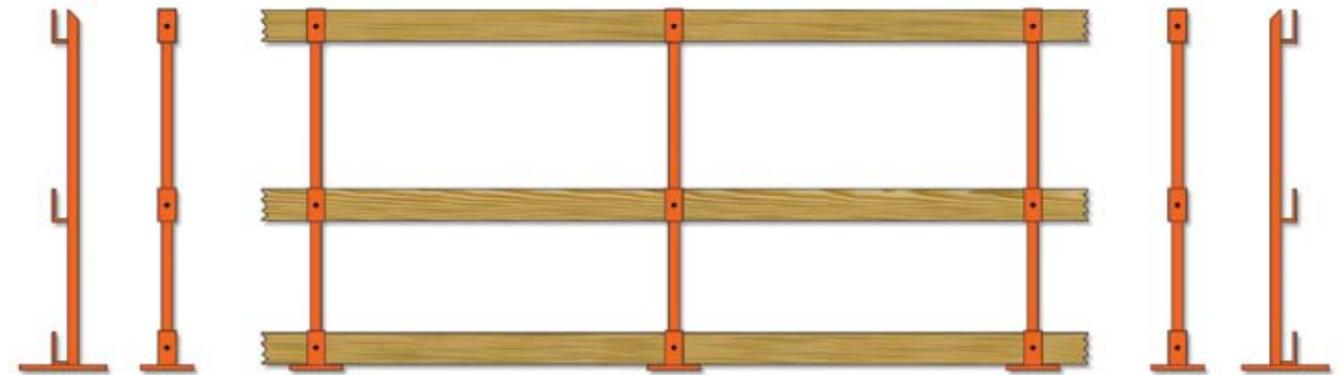
ROUND COLUMNS -- DIMENSIONS & LOAD DATA



ROUND COLUMNS - CAPS & BASES/WIDTHS & HEIGHTS														
DIAMETER NOM.	ACTUAL	POLYMER COMPOSITE		STANDARD		DORIC		SCAMOZZI		CORINTHIAN		STANDARD LENGTHS IN FEET	NO. OF STAVES	LOAD LBS.
		A	B	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, 14, 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 & 24'	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 & 24'	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 & 30'	6	50,000
30"	30	-	-	-	-	43 5/8	9 1/2	-	-	-	-	16, 18, 20, 24 & 30'	8	50,000

TEMPORARY IRON RAILINGS

Clem's manufactures Temporary Iron Railings designed to provide strong reliable barriers in building sites where the construction process presents temporary safety hazards until such time as standard walls, fences, and railings have been installed and the threat of accidental harm is eliminated. These temporary railings are also used to separate working staff from heavy machinery/equipment and high traffic areas of construction vehicles. The welded metal posts are fixed in position at regular intervals -- wood planks are then secured in place in the support brackets provided for this purpose.



POWDER COATING

All of Clem's metal fabrications are protected by a "powder coating" process that is recognized in the industry as the most robust and enduring protection for aluminum and iron products.

A high-quality, environmentally-compliant polyester powder is sprayed as a thick film onto the metal fabrication where the coating electrostatically adheres and conforms to every square inch and nuanced feature of the fabrication. Via an overhead conveyor system the coated object is baked and cured in a high heat oven to form a smooth, durable, and attractive finish.

Available in a wide variety of designer colors, gloss levels and textures, powder coating offers superior protection over conventional liquid based coatings -- excellent coating uniformity without sags, drip marks and surface irregularities, where the extra film thickness and superior edge coverage provides enhanced protection against the elements of nature and corrosion. This baked-on finish resists cracking, peeling, and marring with reduced porosity and surface imperfections. Since no primers or solvents are used in the process, powder coating meets EPA standards and is environmentally friendly as well.





CLEM'S

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