

#### RAILINGS DESIGN GUIDE

VOLUME 4. ALL RIGHTS RESERVED, COMPASS IRONWORKS 2024



#### Elegance and Integrity

At Compass Ironworks, we carry into the 21st century the Amish traditions that forged our artistic sensibilities: honesty, integrity, and dedication to family, community, and craft. We do no mass production here; every installation reflects your unique needs. We are master craftsmen who work with both traditional and 21st century tools. At the end of the day, we close the doors and leave our tools at the shop, not to be touched until the next workday begins.

For more information about Compass Ironworks, please contact us Monday through Friday at (717) 442-4500.



#### RAILINGS DESIGN GUIDE

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When you see these icons on pages throughout the Design Guide, it indicates the following:



**Enhanced Physical Perimeter Security** 



**Shore Environment Approved** 



#### WROUGHT IRON



Over the centuries, wrought iron has been an important expressive material that reflects refined taste and character. The beauty of wrought iron is that despite its inherent rigidity and strength, it can be molded into graceful and elegant shapes. Iron possesses beauty that never dies; it is as charming today as it was a hundred years ago. And will remain so a century into the future.

The possibilities for expression in iron are unlimited. Iron can be turned and twisted into innumerable designs and textures to achieve the artist's and client's desired result. By working closely with designers, architects, and clients, unique expressions can be incorporated into the final design for the very essence of bespoke craftsmanship.

Using iron also makes a "green" statement. All the solid iron and aluminum bar stock we use is 97-100% post consumer recycled material. As stewards of our planet, we need to protect our earth's resources. By recycling old appliances, cars, and buildings, we repurpose existing materials into new and exciting ornamental iron products that will maintain their beauty and value for decades.

#### **Enduring Finish**

The integrity of the protective coating (or "finish") makes it possible to admire the work of past masters today. We treat our products with the most durable and resilient powder-coating so your iron masterpiece may be admired for ages to come.

The process starts with the materials. We use top-quality solid bars—not the thin wall hollow tubing pickets used for mass-produced fences. After the material is forged, welded, and fabricated to our client's specifications, the all-important finishing process begins...

First, the entire project is sandblasted to remove all mill scale, dirt, and residue. This step also performs another important function: physically opening up microscopic pores in the metal in preparation for the powder-coat. The next step is a hot phosphate bath followed by two clean water rinses. Next, we apply the actual finish, starting with a zinc-rich epoxy primer. Then, the entire project is heated, melting and partially curing the primer onto the metal surface. While things are still hot, the first top coat is applied followed by a second and final finish coat. This last coat is treated to a long, slow pass through a curing oven to bake the powder to a specified hardness.

The entire spraying process is more than 99% efficient, and all leftover spray is reclaimed and reused. Our facility exceeds EPA and DEP requirements.

#### WROUGHT IRON



#### **Dedicated Craftsmen**

Our master craftsmen are all natives of the Pennsylvania Dutch heritage found in Lancaster County, Pennsylvania—an area known internationally for its impeccable craftsmanship and superb work

ethic. Our craftsmen work as a team to design, measure, create, powder-coat, deliver, and install your project in an effort to make your entire Ironworks experience surpass your expectations.

We take pains to ensure that the overall design fits your taste and harmonizes with its surroundings. Another chief concern is meeting installation deadlines. As craftsmen of integrity, we do everything possible to make sure your promised installation is carried out on or ahead of schedule. Accurate measurements are taken onsite and, if needed, templates are made to ensure a perfect fit for the final installation.

Then, back at the shop we kick off the forging and fabricating. Detailed cleanup of the project requires scraping, grinding, sanding, and polishing to ensure visual cleanliness. The project is then pretreated and powder-coated right here in our facility for best quality control and ease of scheduling. For delivery, your iron is carefully wrapped for scuff-free transit to the site.

As we work, we keep in mind that our craftsmanship will be seen and evaluated for generations to come. We care about our clients' complete satisfaction. There is no excuse for anything less.





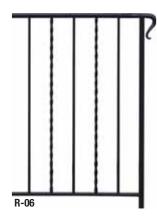
#### RAILING OPTIONS



Cheshire Belly (side view)



Fairweather



Gladwyne



Hampshire Straight



Hammered Basket



Huntingdon Belly (side view)



Standard 3-Rail



Standard 4-rail



Tewksbury Straight



Tewksbury Belly (side view)



# STANDARD HANDRAIL ENDINGS



R-15

Small Lambs Tongue







Large Lambs Tongue



#### INTERIOR POSTS



Hilton Style Volute in 1/2" Round Bar



Ornate Foot Bracket



Textured Box Post



Hilton Style Volute ir 5/8" Square Bar



Ecklin Int Post

#### INTERIOR POSTS





Knightson Post



Iron Panel and Knightson Post



Scroll Flare Post



Modern Round Post



Acanthus Termination



Brigalias Post



Brigalias Volute



Custom Turned Bronze Newel



#### MAIN FOYER RAILINGS

An exquisite iron railing in a main foyer setting makes a statement of bespoke taste. Iron has the rigidity and composition to withstand decades—even centuries—of use and still possess grace and elegance when admired generations later.

There are many exquisite and famous homes, such as The Breakers and The Nemours mansion, that wonderfully showcase the dramatic effect of a fine iron railing. The end result takes an ordinary space and transforms it into a masterpiece.

Today's architects, designers, and homeowners have more choices than ever before. While there are wooden and iron pickets that you can "stick and glue" for a cookie-cutter railing, the same space can be dramatized by incorporating a custom-forged piece of iron art—a piece of beauty to cherish forever.

But a word of caution... ironwork can be overdone. Well-designed railings are subtle, eye-pleasing structures that harmonize completely with their setting and surroundings. The result is an expression of your own design and taste that transcends time and will be admired for generations.



Exquisitely expressive hand-forged interior railing





Old European style railing



Cast bronze acanthus design element.



Iron scroll functioning as a flared volute.







Scroll and leaf detail



Top view

Custom forged iron railings





Beautiful railing at high-end wedding venue.



A gold highlight was added to the forged flower and acanthus leaves



Forged railing along the balcony overlook.





Ironwork perfectly suits the décor for these homeowners with a love of antiques and fine craftsmanship.



Intricate scroll railing design detail



Bronze volutes create timeless appeal.





Custom forged iron volute for stair handrail with antique tarnish



Blackened finish iron scroll railing.



Overview of interior iron railing





Hand-forged iron railing creates a statement that will transcend time



Custom forged volute design



Forged center piece detail





Hand-forged designs in 1/2" rail create a subtle statement



Forged panels add elegance to the foyer



Detail of hand-forged quad scrolls with gold highlight





Turret stair railing that leads to the balcony overlook.



Radial stair silhouette hand crafted



Samuel Yellin inspired scrollwork





Old European style railing



Cast iron lion design element.



Iron scroll functioning as a flared volute.





Beautiful collaboration of metal, wood, and marble



Custom forged crest accentuates beautiful forged railing

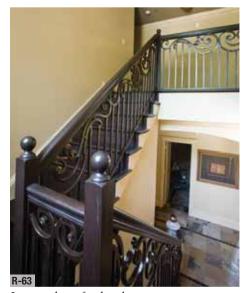


Scroll and gold leaf detail





Grand Staircase railing in Moorestown, NJ



Iron railing for kitchen stairs

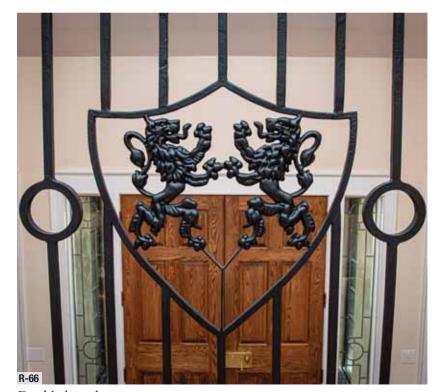


Note the luxurious effect of gold highlight on the edge





Old world design for an overlook in a grand foyer.



Double lion design crest



Custom forged Samuel Yellin post





Over easing bronze caprail detail



A new custom iron railing perfectly matches 1934 work



Bronze handrail and newel with iron twisted pickets make 

Custom machined bronze newel post. for an exquisite railing.







Powder-coated black iron stair railing



Forged center piece detail



Forged volute for wrought iron railing





Detail of intricate scroll and collar design



Post detail



Forged scroll railing design with gold highlights and a bronze caprail.





The complex challenges of multiple radices and angles create a phenomenal visual when executed correctly

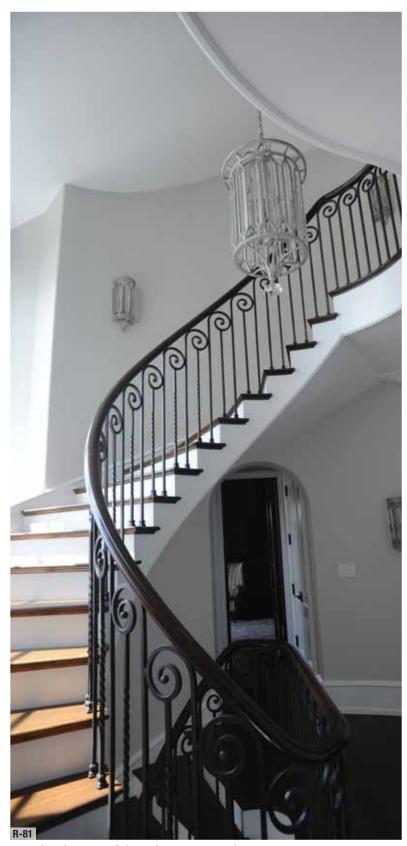


Transitional stair railing design with bronze caprail



Oval design meets all codes but adds insightful yet subtle design flair.

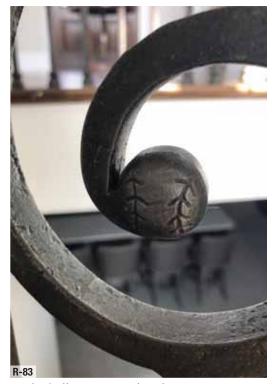




Simple, classic and forged stair case railing



Scroll detail



Basketball engraving detail





Eclectic modern design pattern



Grand foyer railing design with modern bronze caprail.



Curved railing at bottom of grand foyer.

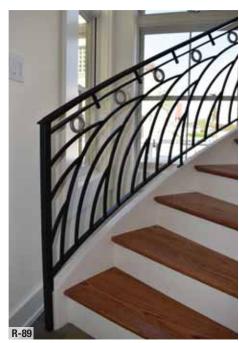




Two flights of curved modern wave railing design.



Wave railing detail



Modern wave railing provides a cascading effect up the staircase.





Top view of beautiful modern railing curves.



Smooth modern railing curvature.



Curved modern bronze caprail







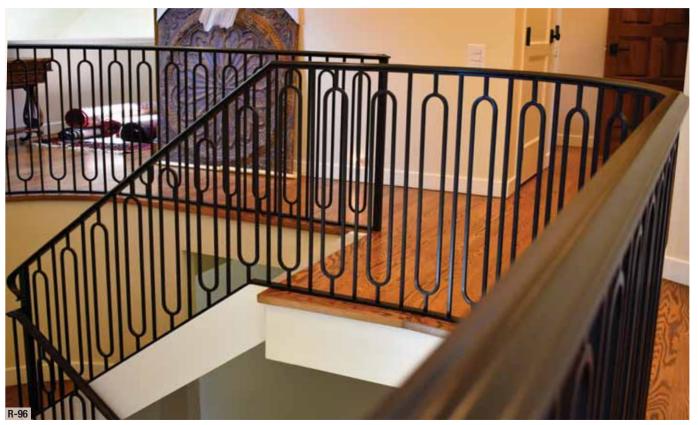


Bronze handrail detail

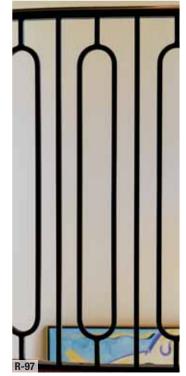


This modern railing design provides safety and code compliance on every aspect.





Modern oval railing design

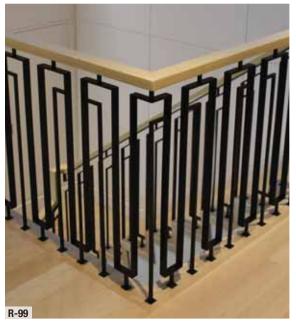


Oval design detail



Multiple levels of oval railing design.

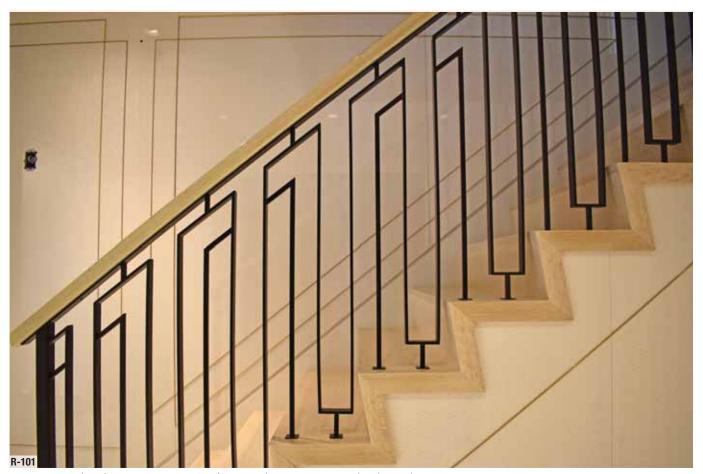




Contemporary iron railing with wood caprail, photo courtesy of Toby Kahn Interiors



Depth detail of contemporary iron interior railing, photo courtesy of Toby Kahn Interiors



Dimensional railing contemporary design, photo courtesy of Toby Kahn Interiors

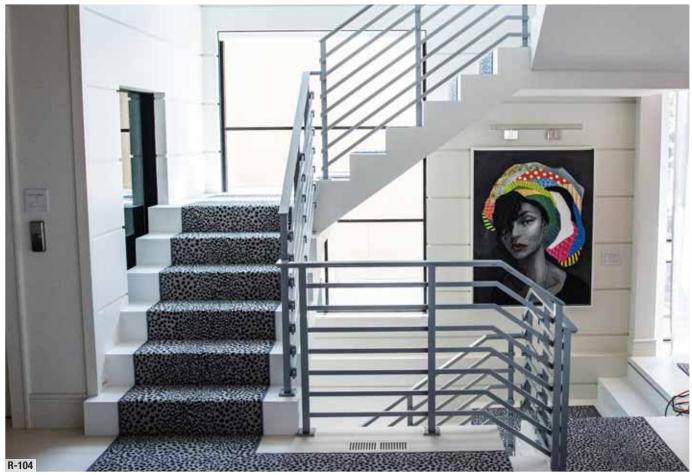




Modern railing clasp design



Modern railing with a double post detail.



Multi-level modern stair railing







Yacht railing design



Interior railing with side-mount added detail.

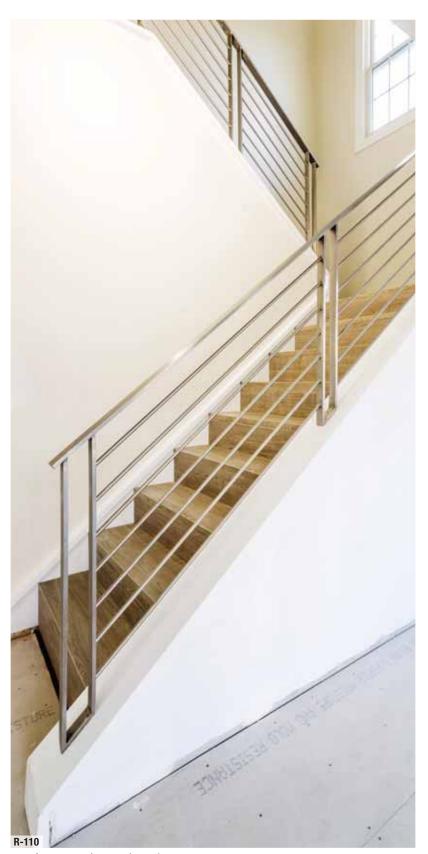




Stainless steel design in a #4 finish.



The contrast of flat bar and round bar in stainless for a contemporary look



Modern stainless railing for staircase





Glass railing with talon feet install.



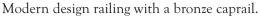
Bracket mounted railing

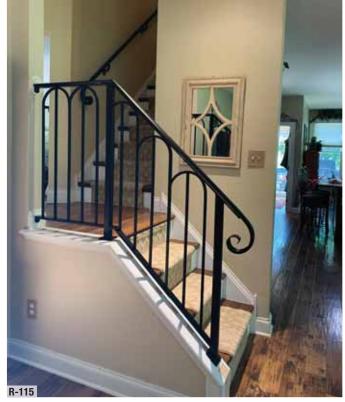


Custom interior iron railing in Mount Laurel, NJ









Interconnected dome picket railing.



Level rail with side-mounted balusters.





Bronze handrails add authentic safety to a refurbished 1934 pool house.



Contemporary iron railing in Ventnor, NJ



Ascending volute railing with a bronze center post.





Transitional design utilizing the contrast of iron and wood



Beautiful staircase with wood cap-rail and iron railing



1930's railing replication



#### **EXTERIOR POSTS**



Larchmont



Scarsdale



Acanthus Post



Tribeca



Hampton

#### **EXTERIOR POSTS**





R-129

Lloyd Harbor



Oyster Bay





All Items on this page are Shore Environment Approved



Manchester belly railing on three balconies and a large terrace.



Manchester Belly railing view of the ocean



Forged Manchester railing balcony.

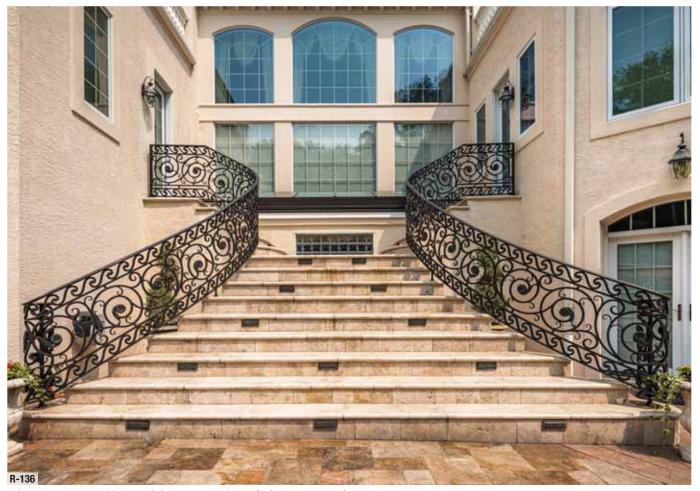
## EXTERIOR RAILING PROJECTS R-134, R-135, and R-136 are Shore Environment Approved



Forged lateral volute for staircase railing

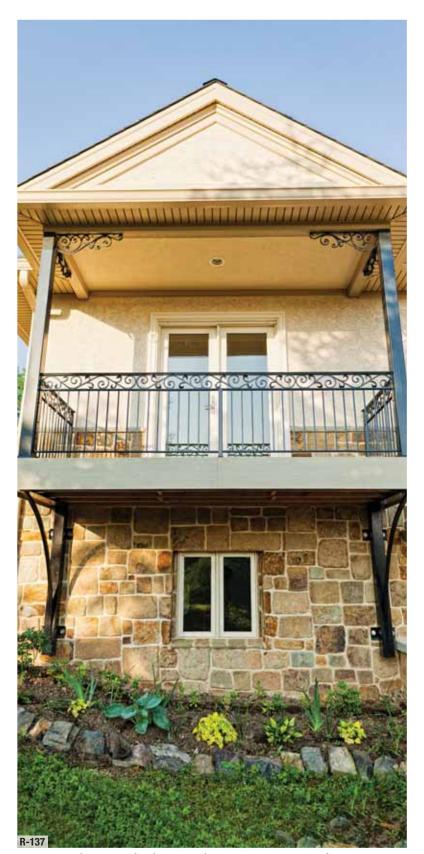


Detail of forged rosette and leaf for stair railing



The panorama of beautiful sweeping forged aluminum railings





Terrace railings overlooking Bucks County countryside



Iron filigree to enhance an entryway



Iron railing with forged iron frieze









Forged knuckles



Forged Iron terrace railing in graphite color





Forged aluminum scroll railing.



Post cap detail



Forged scrollwork and post detail





Marine grade post that withstands the saltwater environment.



Hand-forged aluminum railing on a bay front property



Marine grade aluminum railing for a pool on a water front property

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Hampshire Belly railing in Lebanon, PA



Hampshire Belly detail



Iron Hampshire Belly railing between the stone columns

## EXTERIOR RAILING PROJECTS R-152, R-153, and R-154 are Shore Environment Approved



Three stories of solid aluminum Hammered Basket railings



Hammered Basket railing creates safety and adds classic appeal without obstructing ocean views



Basket design in diamond pattern.





Forged rosettes enhancing this terrace railing.



Belly railing adds a dimensional aesthetic to client's rear terrace.



Terrace step railings in Moorestown, NJ





Rustic scroll railings along the front porch.



Side Entry Railings



Forged Iron scrolls on that top and bottom of every picket.

## EXTERIOR RAILING PROJECTS R-161, R-162, and R-163 are Shore Environment Approved



Architect's balcony railing design of a French aesthetic.

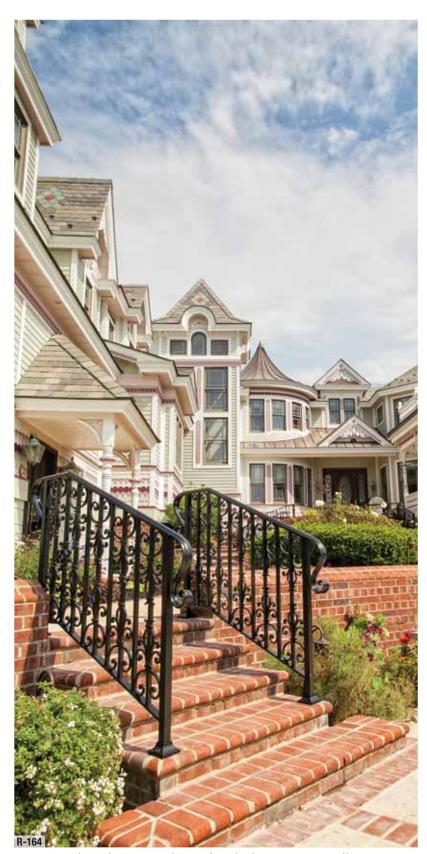


Exquisite scrollwork and modern oval design elements.



French balcony design





Victorian shore home is enhanced with these exceptionally ornate railings



Marine grade railing offer beauty for this family's shore retreat



Ornate railings with forged aluminum lamb's tongue end.

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Inside exquisite volute design.



Outside exquisite volute design.



Marine grade castings specifically for the grand shore home.





Beautiful terrace railing with intricate scrollwork



Collar and scroll details in custom aluminum railing.



Terrace entry with exquisite lamb's tongue design.

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Forged aluminum railing

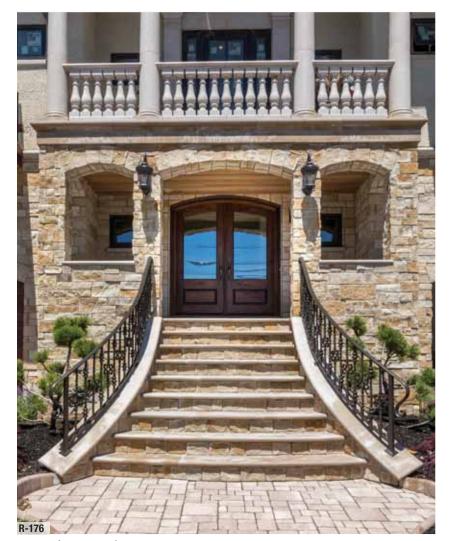


Exquisite rose detail.



Scrolls and twisted pickets provide an awesome entrance to this stately home.





R-177

Curved entry railings

Quad-scroll and collar design



Heavy ornate balcony railing



Terrace railing overlooking the bay

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Hampshire Belly railing



Hampshire Belly railing along radiused front terraces.



Terrace railings in Longport, NJ

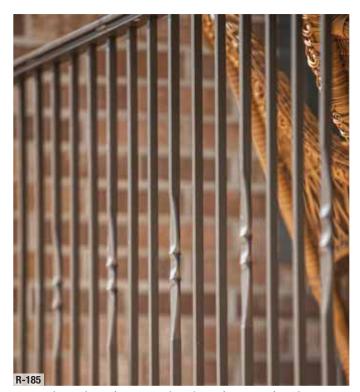




Roanoke railing is a solid match for this brick home



Petite lamb's tongue with extra extension for an extra flare of design.



Roanoke railing design with a forged spoon detail.



Close up of Iron railing that has an antique iron paint process to look like it was built decades ago



Textured flat bar handrail with a classical volute ending.



Wrought iron railing specially created with todays materials for an authentic look

# EXTERIOR RAILING PROJECTS R-189, R-190, and R-191 are Shore Environment Approved



Hampshire straight picket terrace railing



Hampshire Straight picket stair railing



Large lambs tongue in a medium bronze powder coat









Ascending volute in Iron



Brass ball finial

# EXTERIOR RAILING PROJECTS R-195, R-196, and R-197 are Shore Environment Approved



Volute detail photo with contrast masonry



Custom aluminum fence along wall.



Custom aluminum railing on upper terrace.



Mainline railing with a collar diamond pattern.



Textured pickets



Pool side Mainline railing with rings and knuckles





Exterior balcony railing forged from aircraft grade aluminum, indistinguishable from wrought iron



Close up of wrought iron railing design



Ornamental railings on a bay front home

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Two Levels of custom aluminum belly railings



Custom aluminum railing withstood Hurricane Sandy



Railing to post connection





Custom "Bouquet" railing in Princeton, NJ



"Bouquet" railing detail



Custom "flower" petals





Custom bronze medallion

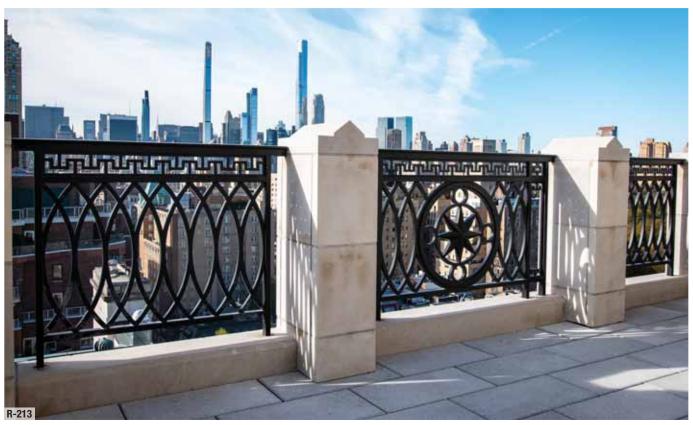


Forged aluminum railing detail.



Grand entry with forged aluminum railings.





Luxury apartment railings, Manhattan NYC



Custom railings that enhance the high-rise architecture.



Custom star detail

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



This sublime pool space is transformed by the spectacular railing design.



Terrace railing overlooking the pool.



Custom forged railing accentuates steps





Flared entry railings



Scrolls managed around multiple angles



Forged aluminum scrolls coupled with marine grade knuckle details.

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Custom terrace railing for triathlete lover





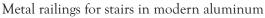
Swimming Running



Biking









Beautifully radiused railing



Both sides of entry railing provide symmetry for front stairs

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Grand stair railings in the VA mountains



Large aluminum architectural post.



Custom aluminum railing curves gracefully into architectural post.





Modern Terrace railing design with bronze caprail



Bronze caprail and powder coated aluminum railing enhances this modern home.



Modern Design exterior railing

# EXTERIOR RAILING PROJECTS R-235, R-236, and R-237 are Shore Environment Approved



French Balcony and terraces are enhanced with custom aluminum railings.



Posts and custom railings provide safety and beauty



Ring detail along 3-rail design.





Beautiful three rail ring design



Beautiful railing design



Beautiful Side entry railings

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Curved railing for a grand entry.



Side entry Curved Railings



Rectilinear railing Design.





Olde English style railing replicated from London.



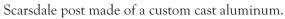
Close-up of English railing



English Post detail









Knuckle and Ring detail



Overall view of custom aluminum railing project





Modern linear railing down IPE porch.

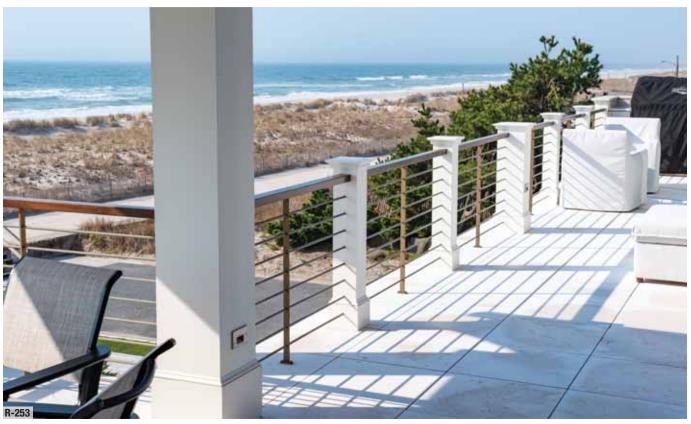


Modern railings around outdoor dining space.



Modern railing along the bay front bulkhead.

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Horizontal bronze railings

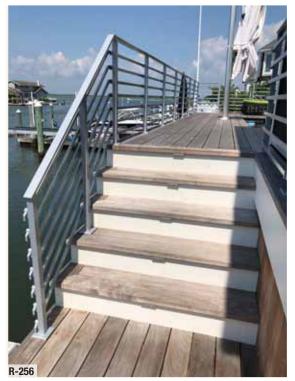


Innovative post/railing connections on bronze railings.



Bronze railings with stained IPE caprail

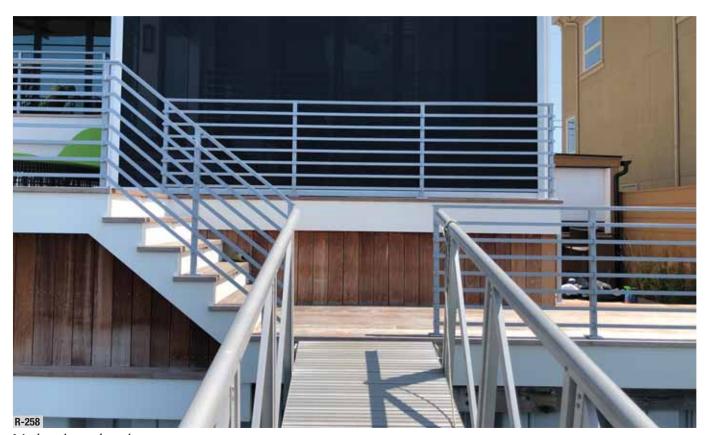




Bay side linear stair railing



Modern railing with outer post collars.



Modern bay side railing

# EXTERIOR RAILING PROJECTS All Items on this spread are Shore Environment Approved



Custom railing for this shore home to emulate a yacht design.



Horizontal bulkhead railing



Custom pipe collar details to emulate yacht railing.

# EXTERIOR RAILING PROJECTS All items on this spread are Shore Environment Approved



Powder coated horizontal rod railings



Azek posts, IPE caprail, and horizontal railing design.



Horizontal railing detail





Horizontal modern railings in white.



Modern railing design in powder coated silver.



Aluminum belly railing.





Modern exterior railing design for front staircase



Back terrace railing modern design for a water front home



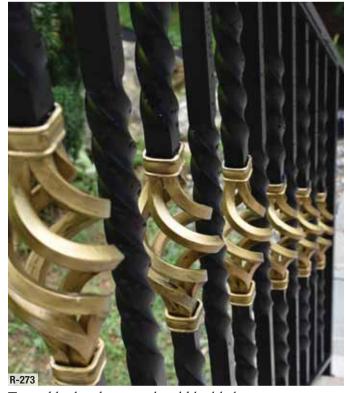
Arts and crafts style railing in solid aluminum displays a taste of progressive design.



Custom aluminum Gladwyne style railing



Twisted basket and scrollwork design.



Twisted basket design with gold highlighting.



Flat top standard railing along knee wall.





Railing and fence complimenting each other through matching designs.



Front porch classical railing



Arched 3-rail design



Cable railing with IPE caprail



Custom modern aluminum terrace railing.



Solid bronze handrails

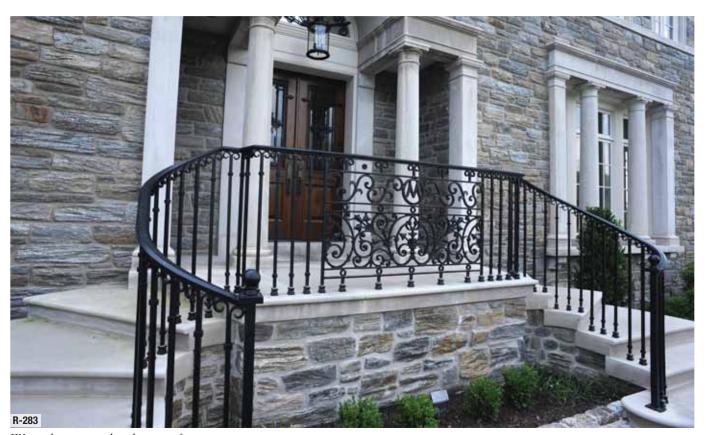




Custom cast aluminum railings



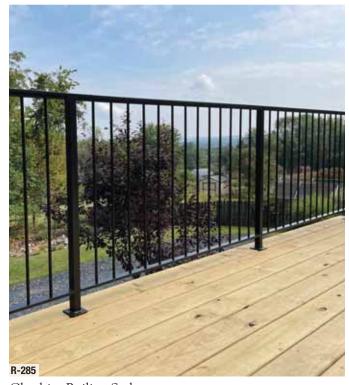
Stainless steel post and cable rail design



Wrought material railing on front entry steps



Tewksbury Railing at golden hour.



Cheshire Railing Style



Radiused entry railing in Ocean City, NJ





Gladwyne railing in aluminum on large wrap around porch.



Iron Quad-scroll railing



Tewksbury railing design



Custom forged terrace railing



Contemporary railing with a privacy aspect





Custom radius railing



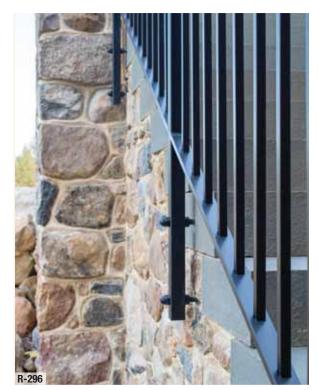
Glass panels on top of sea wall.



Grand entry railings for a Italian style shore home.



Fairweather railing overlooking dock in Longport, NJ



Side mounted railing design

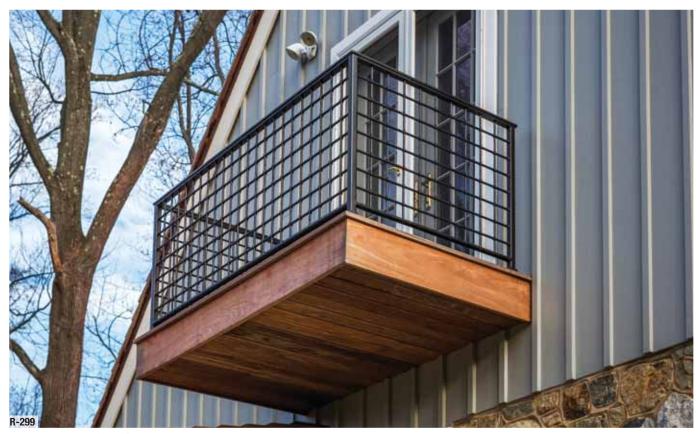




Custom balcony railing design.



Aircraft grade aluminum railing curved balcony



Inter-woven railing design



Custom Romeo balcony railing matches window design





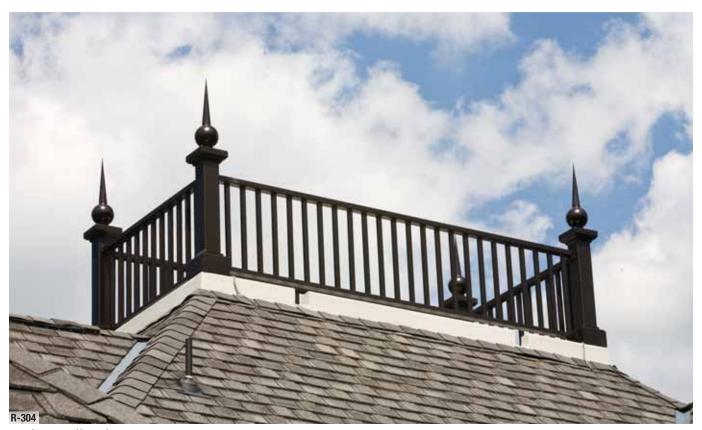
Belly railing with a picket/post detail



Custom railing with Roman Posts in Moorestown, NJ



Balcony railing in aircraft grade aluminum



Widows walk railing



Custom iron railing for Romeo balcony in Wilmington, DE



Solid aluminum Juliet balcony in Ocean City, NJ





Forged railing panels with a curved and belly design.



Forged aluminum Juliet balcony



Forged Iron balcony with scrolls and twists.



1920's balcony replication



Solid aluminum railing with 6" Hampton posts



Initial "B" adds a personal touch to this Romeo balcony railing





Tewksbury railing with rosette on Juliet balcony in Downingtown, PA

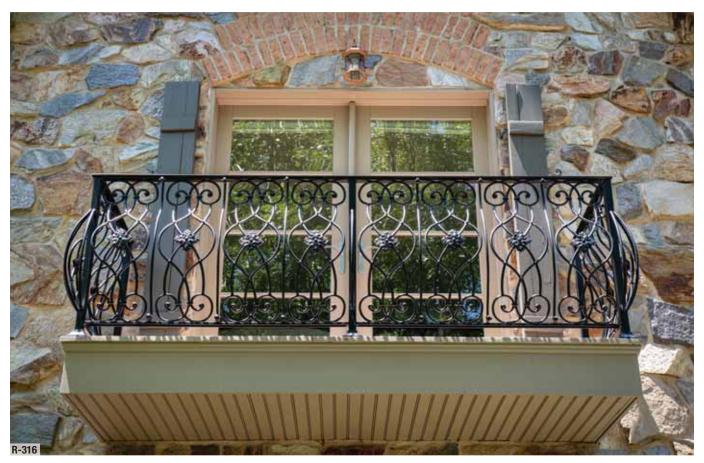


Manchester railing creating a French balcony, Longport, NJ



Juliet balcony with Olde World Style floor in statuary bronze has timeless appeal





Romeo balcony with forged Iron belly railing.



Hampshire Belly railing on bedroom terrace





Mesh railing provides safety and ease of navigating stairs



Aluminum Pipe handrails for a public school - front entrance.



Aluminum Pipe handrails for a public school-Side entrance.





Fire tower railing that is contemporary and beautiful



Service entrance ADA railings for a public school.



Forged aluminum railing creates safety and ambiance for patrons of this upscale restaurant





Beautiful classic railing design meets ADA compliance on this handicap ramp



Fire pit railing provides safety and beauty





Commercial railing with an antique truck logo.



# SAMUEL YELLIN RESTORATIONS



Restored Samuel Yellin balcony



Beautiful scroll work for bracing the Samuel Yellin



Antique brass ball post.



The authentic Samuel Yellin stamp on wrought iron

### SAMUEL YELLIN RESTORATIONS





Iron center medallion on balcony restoration.



The amazing detail in restored wrought iron railing



Bronze finial restored above scrollwork restoration.



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