

The Coastal Line

German-engineered fenestration for the salt, the storm, and the view.

The coast is the hardest place in America to own a window. It is also the only place worth putting one.

Salt air corrodes hardware. Hurricanes test structure at pressures most products never see in a laboratory. Humidity works on every joint, every season, without pause. The American market answers with compromise—smaller glass, heavier frames, shorter warranties.

The Coastal Line is our refusal of that compromise. Each unit is custom-engineered and manufactured in Germany for a single project: laminated impact glazing in tilt-turn, fixed, and lift-and-slide configurations, certified to DP 65 minimum and sustained 140 mph wind—then installed and serviced by our own Germany-trained crews.



SEA ISLAND RESIDENCE — WOOD LIFT-AND-SLIDE, LAMINATED IMPACT GLAZING



STAINLESS HARDWARE, MARSH AIR — BUILT FOR BOTH

DP 65+

140 mph

Level D

≤0.28

NAMI

MINIMUM DESIGN PRESSURE SUSTAINED WIND LOAD LARGE-MISSILE IMPACT WHOLE-UNIT U-FACTOR CERTIFIED



A lift-and-slide door weighing six hundred pounds should move with one finger—and seal against a Category 4.

SECTION I

Two materials. One standard.



SYSTEM 01 — UPVC · 70 MM

Five-chamber, steel-reinforced profiles in 100% virgin PVC. Impervious to salt and moisture, maintenance-free for decades, with more than fifty woodgrain and solid-color laminations. The rational choice for exposed elevations.



SYSTEM 02 — WOOD · 83 MM

Laminated hardwood in eight species, finished completely in the factory—inside, outside, every edge—before it ships. That is what lets us stand behind a ten-year full-replacement warranty, finishes included.



STEEL-LOOK ENTRY, UPVC ECONOMICS



NARROW-PROFILE FRENCH DOORS IN WOOD

Every capability of the platform—impact glazing, acoustic packages, custom colors, oceanfront hardware—is available on either system. The line is a starting specification, not a limit.

SECTION II

Every way to open a wall.

The platform is organized by what the opening must do—not by a product catalog. Within each family, every unit carries the same coastal engineering.

WIDE OPENINGS



Lift-and-slide · folding walls · multi-track sliders. Panels to 600 pounds glide on precision rollers and lower onto continuous gaskets; folding systems stack a whole elevation aside. Openings beyond twenty feet with the weathertightness of a fixed unit.

VENTILATION & EGRESS



Tilt-turn · tilt-only · terrace doors. One handle, two motions: tilt inward for draft-free, rain-safe ventilation, or swing fully open for egress and cleaning from inside. Compression-sealed on all four sides.

FIXED & SHAPED GLASS



Picture units · trapezoids, triangles & arches · corner glass · gable infill. Maximum glass, minimum frame, in nearly any geometry the elevation calls for—engineered to the same structural ratings as operating units.

ENTRIES



Entry doors · monumental pivots · French doors. From traditional stile-and-rail to a nine-foot pivot on a stone threshold—multi-point locking and the same salt-air-rated hardware as every coastal unit.



LIFT-AND-SLIDE IN UPVC — TWENTY FEET OF OPENING, ONE FINGER TO MOVE IT



MONUMENTAL PIVOT ENTRY, KIAWAH ISLAND

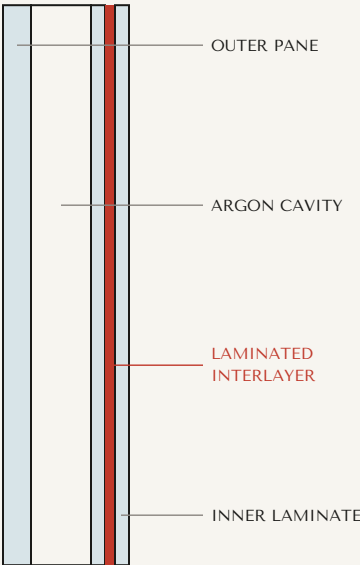


*A gable filled with glass, certified to the
same storm rating as the wall around it.*

OCEAN PARK RESIDENCE — SHAPED FIXED
GLAZING

SECTION III

Anatomy of impact glass.



The Coastal Line is glazed with laminated impact double glazing: a monolithic outer pane, an insulating argon cavity, and an inner laminate bonded by a high-strength interlayer. Under large-missile impact the glass may craze—but the interlayer holds the envelope closed, which is what keeps a roof on a house when pressure changes in seconds.

This is the configuration that carries the structural certification. It is also quiet—the laminate damps coastal wind noise—and it filters more than 99% of UV, protecting interiors from southern exposure.

Impact rating	Large Missile Level D
Whole-unit U-factor, installed	≤ 0.28
UV filtration	> 99%
Acoustic reduction	Up to 50 dB
Certification	NAMI



IMPACT GLAZING, INVISIBLE FROM THE SOFA — THE POINT OF DOING IT PROPERLY

SECTION IV

Specified to perform. Documented to prove it.

STRUCTURAL & COASTAL

Design pressure, minimum	DP 65
Engineered upper range	Per project
Sustained wind load	140 mph
Impact resistance	Large Missile D
Hardware & locking points	Stainless steel

THERMAL & ACOUSTIC

Whole-unit U-factor, installed	≤ 0.28
R-value equivalent	R-4+
Acoustic reduction	Up to 50 dB
Air infiltration	Class 4 / A3
Certification	NAMI

Numbers on this page describe the whole installed unit—frame, glass, hardware, and installation—not a bare center-of-glass figure. And DP 65 is where the platform starts, not where it stops: every project receives its own engineering calculation, and units are routinely certified above it.

Every project receives stamped shop drawings, engineering to EN and ASTM standards, and a certification package assembled for the permitting authority having jurisdiction.

SPECIFICATION RESOURCES

CAD details, Revit families, NFRC data, test reports, and installation details—available to download.

[HENSELSTONE.COM/RESOURCES](https://www.henselstone.com/resources)

SECTION V

Stainless steel at every locking point.

Hardware is where coastal windows fail first—so it is where the Coastal Line is least negotiable. Every locking point on every unit is stainless steel, driven by concealed multi-point mechanisms that pull the sash tight against continuous gaskets at up to a dozen positions around the frame.

Handles, hinges, and rollers carry oceanfront salt-air ratings as standard, in finishes from brushed stainless to bronze and custom RAL. Tested for the environment they will actually live in—not the showroom.



MULTI-POINT LOCK,
STAINLESS KEEPS



CONCEALED LOCKING
POINT, TILT-TURN



LIFT-AND-SLIDE
HANDLES, BRONZE ON
INK



FRENCH DOOR PAIR,
BRUSHED STAINLESS

Stainless

EVERY LOCKING POINT

Multi-point

CONCEALED LOCKING

Oceanfront

SALT-AIR RATED

Bronze · steel

HANDLE FINISHES

SECTION VI

Engineered in Germany. Finished to the project.



PRE-FINISHED WOOD INTERIOR — EVERY EDGE DONE IN THE FACTORY

Colors	1,500+ RAL / NCS
Woodgrain laminations (uPVC)	50+ finishes
Wood species	Eight, FSC-certified
Dual color	Interior / exterior
Hardware finishes	Stainless, bronze, custom
Glazing bars & muntins	Custom to project

A white interior over a bronze exterior; a stained mahogany room behind a storm-rated wall of glass—color and finish are specified per elevation, not chosen from a card.



A FRACTION OF 1,500+ RAL AND NCS FINISHES — MATTE, SATIN, AND METALLIC, SPECIFIED PER ELEVATION



INK-DARK FRAMES, FLOOR-TO-CEILING — KIAWAH ISLAND



HARDWARE FINISHED TO MATCH THE FRAME

SECTION VII

We are not a showroom.

Most suppliers hand off a product. Henselstone owns the full path—and stays on the project from first drawing to decades of service.



GERMANY-TRAINED CREW, NEVER SUBCONTRACTED

01 Design consultation	Spec stage
02 Engineering & shop drawings	Pre-CD
03 Manufacturing in Germany	Single order
04 Certified installation	Own crews
05 Long-term service	Annual program

Installation is performed by our own Germany-trained crews—never subcontracted—because a coastal certification is only as good as the installation behind it.

Because every wood and metal-clad unit is finished completely before it ships, we stand behind a ten-year full-replacement warranty, finishes included.



At dusk on the marsh, the glass disappears. The engineering is still there.

RHETTS BLUFF RESIDENCE — WOOD & CURTAIN WALL

SECTION VIII

On the water, for decades.



SEA ISLAND RESIDENCE · WOOD SYSTEM · IMPACT GLAZING



MARSHFRONT RESIDENCE · UPVC SYSTEM



KIAWAH ISLAND RESIDENCE · METAL-CLAD & FIXED GLAZING



LOWCOUNTRY RESIDENCE · FULL-ELEVATION WOOD PACKAGE



THE VIEW THE ENGINEERING PROTECTS

SECTION IX

Built for decades. Serviced for all of them.

A window on the ocean earns its keep every year—and deserves attention on the same schedule. Our annual service program keeps hardware adjusted, gaskets conditioned, and drainage clear, performed by the same organization that engineered and installed the unit.

Owners receive documented service records—which matter at resale on the coast, where every buyer’s inspector knows what salt does to lesser windows.

Warranty	10-yr full replacement
Finishes	Included
Annual service	Program available
Parts & repairs	Factory-direct
Service crews	In-house



STILL UNDER THE SAME CARE, YEARS AFTER HANDOVER

The best window decisions are made at the drawing stage.

Bring us in before construction documents are final. Specification, engineering, and shop-drawing support are part of the engagement—not an upcharge.

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