



BelleVier
WINDOWS + DOORS

PRODUCT + DESIGN GUIDE

Windows and doors, built around the opening.

A visual guide to product families, frame finishes, glass, screens, grilles, hardware, performance planning, and the path to a project-specific package.

01 / HOW TO USE THIS GUIDE

Start with operation. Finish with the details.

A productive window and door conversation moves from how the opening should work to the details that make it fit the architecture, performance goals, and jobsite plan.

1. Define the opening

Share plans, elevations, rough opening dimensions, photos, or an early concept.

2. Select the operation

Compare ventilation, projection, panel movement, clear opening, and daily use.

3. Coordinate the design

Choose frame finish, glass, screens, grilles, hardware, sill, and panel layout.

4. Confirm the package

Review final sizes, scope, drawings, documentation, delivery, and exclusions before order.

What to bring to the first review

- + Project location and construction type
- + Plan set, elevations, or opening list
- + Preferred operating styles
- + Frame color direction
- + Glass, privacy, sound, or safety goals
- + Screen and grille preferences
- + Target schedule and delivery conditions
- + Known performance or code criteria

02 / WINDOW COLLECTION

Seven ways to frame the view.

Combine operating and fixed units to control ventilation, cleaning access, sightlines, and elevation rhythm.



Vantage Casement

Side-hinged ventilation with flexible fixed-lite combinations.



Vantage Awning

Top-hinged ventilation for stacked, clerestory, or fixed-window compositions.



Axis Tilt + Turn

Inward tilt for ventilation and inward turn for access and cleaning.



Vista Fixed

Non-operable glazing for broad views, larger formats, and specialty shapes.



Classic Hung

Vertical sash movement for familiar residential elevations.



Glide Sliding

Horizontal operation without inward or outward sash projection.



Foldaway

Multiple panels fold aside for pass-throughs and broad clear spans.

03 / DOOR COLLECTION

From one entry to an opening wall.

Compare panel movement, clear opening, sill conditions, screen coordination, hardware, and traffic patterns.



Panorama Sliding

Multi-panel tracks for straightforward daily operation and broad glass area.



Horizon Lift + Slide

Large panels lift from the seals, glide, and lower into a secured position.



Meridian Hinged + French

Single or paired swing doors with sidelites, transoms, and threshold choices.



Cascade Bifold

Multiple leaves fold and stack to create a wide open connection.



Signature Entry

Custom glass and panel compositions with sidelites and transoms.



Access Automatic

Commercial sliding entrances coordinated with sensors and access controls.

04 / OPERATION COMPARISON

Choose around the way people use the opening.

The best family balances ventilation, projection, cleaning access, panel scale, screen strategy, threshold, and daily movement.

Family	Movement	Why choose it	Plan for
Casement	Side-hinged	Strong ventilation and compression sealing	Interior or exterior projection varies
Awning	Top-hinged	Ventilation with compact elevation rhythm	Exterior projection
Tilt + turn	Inward tilt / turn	Dual-mode ventilation and cleaning access	Requires interior clearance
Sliding window	Horizontal track	No sash projection	One panel typically remains in the opening
Fixed	Non-operable	Maximum view and composition flexibility	Ventilation handled elsewhere
Sliding door	Horizontal track	Familiar operation and multiple panel layouts	Sill and screen coordination matter
Lift + slide	Lifted panel on track	Large panels and broad glass area	Premium hardware and weight planning
Bifold	Folding stack	Wide clear opening	Stack location and weather exposure matter
Hinged / French	Swing	Direct passage and traditional operation	Swing clearance and threshold matter

A product family is a starting point. Final allowable dimensions, panel counts, glass, hardware, sill, ratings, and availability are confirmed for the selected configuration.

05 / FRAME PROFILES

The profile controls more than the look.

Compare overall depth, visible aluminum, thermal separation, glazing capacity, sill or track geometry, and the operation each profile must support.

Profile family	Depth	Visible reference	Glass reference	Typical direction
65 Thermal window	65 mm	Approx. 30 mm	Up to 48 mm*	24 mm thermal barrier; casement, awning, fixed, and combination windows
80 Deep thermal window	Approx. 80 mm	Approx. 30 mm	Up to 61 mm*	39 mm thermal barrier; deeper window platform and glazing pocket
80 Thermal hinged door	80 mm	Approx. 50 mm	Up to 48 mm*	Swing-door platform with threshold and multi-point lock directions
75 Thermal folding	75 mm	Approx. 36 mm	Up to 51 mm*	Two- to eight-leaf folding layouts with sill choices
146 Slim sliding	146 mm	Approx. 20 mm interlock	By review	Minimal glass-focused sliding platform
153 Lift + slide	153 mm	Approx. 64 mm	Up to 53 mm*	Thermal large-panel lift-slide platform
239 Multi-track lift + slide	239 mm	Approx. 64 mm	Up to 53 mm*	Deeper stacking and multi-track lift-slide platform
Commercial platforms	100-150 mm	Approx. 25-50 mm	Varies	Operation-specific awning, hinged, sliding, stacking, louver, and folding profiles

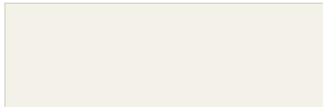
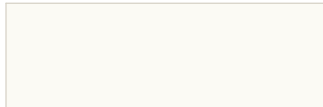
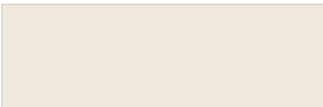
0.13	±55 psf	NFRC + NAFS
U-factor Available on select thermally broken configurations; the exact whole-unit value is confirmed for the quoted unit.	Florida design pressure Selected impact-resistant horizontal slider approved for HVHZ and non-HVHZ use.	North American framework The same thermal and fenestration test language used for premium U.S. systems.

Performance values above are reviewed configuration-specific examples, not blanket ratings for every profile. *Glazing capacity is a platform reference, not the approved glass makeup for every unit. Final profile, glass, reinforcement, sill, hardware, drawings, ratings, anchorage, installation requirements, and availability are confirmed for the exact project configuration.

06 / FRAME FINISHES

Black is only the beginning.

Finish availability varies by system. Approve color and sheen from a current physical sample before ordering; digital swatches are directional only.

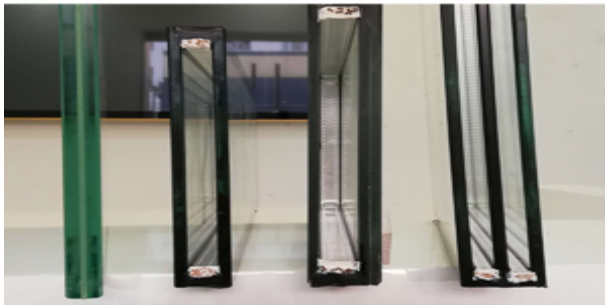
			
Frosted Black	Black Satin	Monument Matte	Silver Gray
			
Ultra Silver	Clear Anodized	Architectural White	Pearl White
			
White Birch	Woodland Gray	Ironstone	Shale Gray
			
Surfmist	Dune	Paperbark	Residential Bronze
			
Cedar	Mahogany	Honey Gum	Snow Gum
			
Custom Match			

Finish families may include powder-coated, anodized, and wood-look selections. Custom matching may be reviewed from RAL, Colorbond, Interpon, or a physical reference.

07 / GLASS OPTIONS

Build the glass around the opening.

Glass affects comfort, energy, safety, sound, privacy, weight, appearance, and hardware selection. The final makeup should be documented for each opening type.



- + Double tempered insulating glass
- + Triple tempered insulating glass
- + Laminated and tempered laminated glass
- + Low-E coated glass
- + Tinted and privacy glass
- + Acoustic configurations
- + Specialty security glazing by review

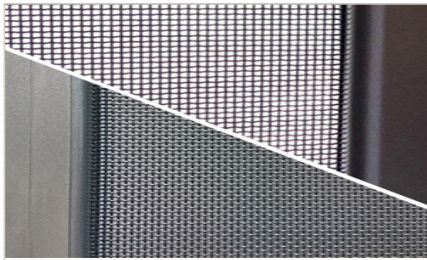
Questions to resolve

- + What climate and orientation does the opening face?
- + Is safety glazing required by location?
- + Is privacy needed by day, night, or both?
- + Are sound goals stated numerically or qualitatively?
- + Will tint or coating color affect the exterior elevation?
- + Does glass weight change panel size or hardware?

08 / SCREENS, GRILLES, AND HARDWARE

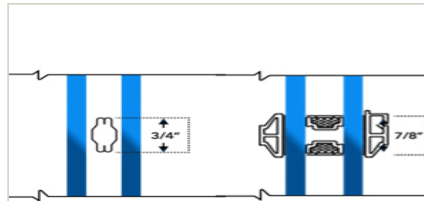
Complete the visible and operating package.

These details should be selected with the product family, not treated as last-minute accessories.



Screens

Fiberglass or stainless mesh; fixed, removable, in-swing, or retractable operation; color-matched frames.



Grilles

Between-glass, simulated divided-lite, applied, shadow-spacer, and custom lite patterns.



Hardware

Cranks, levers, multi-point locks, lift-slide handles, flush pulls, rollers, hinges, restrictors, and access controls.

Coordinate early

- + Screen operation with handle location
- + Retractable screen pocket and clear opening
- + Grille pattern with elevations and sightlines
- + Hardware finish with frame and adjacent fixtures
- + Restricted opening or egress requirements
- + Access control and power requirements

09 / PERFORMANCE PLANNING

Match documentation to the exact configuration.

Performance is not a generic product-family promise. It depends on the selected frame, size, glass, hardware, sill, anchorage, exposure, installation, and test basis.

Topic	Items to confirm
Thermal	Frame thermal break, glass makeup, spacer, coatings, edge conditions, and whole-unit basis
Air + water	Unit size, operation, seals, sill, drainage, pressure, and installation interface
Structural	Wind pressure, panel size, glass, reinforcement, anchorage, substrate, and deflection criteria
Impact / security	Project location, code basis, assembly listing, glass, frame, hardware, and anchorage
Safety + egress	Hazardous locations, clear opening, sill height, fall protection, and code review
Acoustics	Target metric, glass asymmetry, laminate, frame seals, perimeter joints, and installation

Ask BelleVier to identify the configuration-specific documents that apply to the proposed package. Final code interpretation, engineering, installation design, and field verification belong with the appropriate project professionals and trades.

10 / ARCHITECTURAL APPLICATIONS

Use project imagery to discuss proportion and intent.

Representative applications help compare frame color, panel rhythm, fixed-to-operable relationships, and the scale of large openings.



Courtyard window wall

Fixed and operable openings coordinated across a contemporary rear elevation.



Poolside glazing

Sliding and fixed glass form a consistent multi-level composition.



Winter facade

Dark frames and large openings shape a layered cold-climate elevation.

Representative application photography is provided for design direction. Final product type, sizes, glass, finish, performance, and availability are confirmed for each project.

11 / NEXT STEP

Send the opening. We will narrow the system.

A plan set is helpful, but an early concept, photo, or rough opening list is enough to begin a useful product conversation.

Recommended quote package

- | | |
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| ☐ Project address and contact | ☐ Glass goals |
| ☐ Plans or elevations | ☐ Screen and grille preferences |
| ☐ Opening dimensions and quantities | ☐ Hardware finish |
| ☐ Preferred product families | ☐ Known performance criteria |
| ☐ Frame color direction | ☐ Target delivery timing |

REQUEST A PROJECT REVIEW	bellevierwindows.com/quote
CALL OR EMAIL	(612) 270-8121 info@bellevierwindows.com
OFFICE	15625 95th St N, Stillwater, MN 55082

Product availability, dimensions, panel counts, ratings, glass makeup, finish, hardware, lead time, delivery scope, installation responsibility, and warranty coverage vary by configuration and are confirmed in project-specific documentation.