

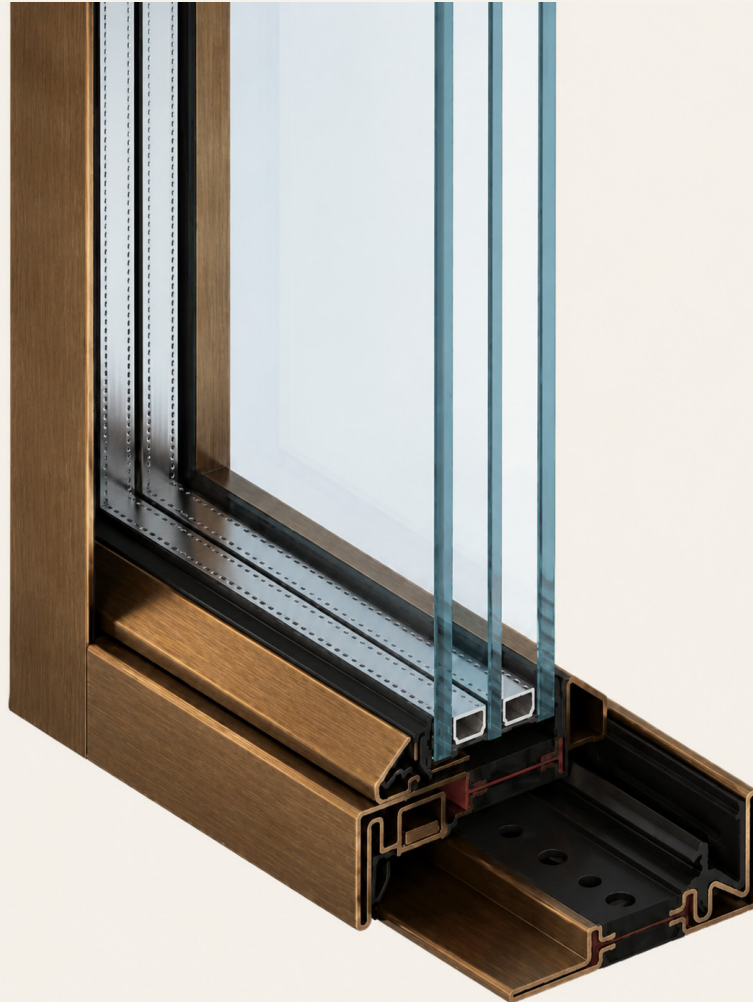
BRASS



Awarded
Material

Architectural Brass/Bronze

Brass/Bronze, Crafted To Endure As
Architecture And Age Into Legacy.



80+

Expected
Service Life
(Years)



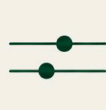
0.19-0.30

Uw
Whole Window
U-Value



2 / 3

Glazing Layers
(Double / Triple)



2

Low-E Coatings
(#2 & #5)



40%-70%

Visible Light
Transmitted (VT)



3

Perimeter Seals
(Typical)



UP TO
45

Acoustic
(Max)

Quick Facts

PRICE, WARRANTY & DELIVERY

Product Lifespan: 80 years+

Warranty Length: 5 Years / Components Covered

Approx. Price per Sq Ft (\$ / ft²): Dependent On Unit Type And Configuration

Key Pros / Cons: Pro – Rich, living material – deep patina, unmatched presence / Con – Patina evolves over time, color shifts are inherent and not fully controllable

Lead Times (Typical) - Total From Signed Shop Drawings to Product Site (Weeks):

- **NYC Area:** 18
- **New England:** 18
- **Southeastern US, Florida:** 19
- **Great Lakes/Chicagoland:** 19
- **Texas:** 20
- **Rockies (Colorado, Idaho, Montana, Utah, Wyoming):** 20
- **West Coast/California:** 20-22

DIMENSIONS & PERFORMANCE

Frame Depth: 2 15/16"

Frame Width: ~1 7/8" – 2 7/16" (sightlines depending on node)

Max Height: ~9'

Max Width: ~6' 6" (double leaf)

Max Area: ~30–45 ft² (operable) / larger for fixed

Min Height: ~16"–20"

Min Width: ~14"–18"

Glass / IGU / Panel Depth Range: ~1" – 1 3/4" (double + triple capable)

Max Glass Weight per Panel: ~220–285 lbs (hardware-dependent)

THERMAL, STRUCTURAL, ACOUSTIC

U-Factor Range (BTU/hr·ft²·°F): 0.19 – 0.30 (system dependent)

Frame Thermal Break Depth: Polyamide thermal break (continuous, steel-integrated)

Air / Water / Structural Ratings:

Air Infiltration: Class 4 ≈ ~0.03–0.08 cfm/ft²

Water Tightness: Class 9A ≈ ~12–15 psf

Wind Load Resistance: Class C5 ≈ ~60 psf

Acoustic Performance: ~38–45 dB (Standard Configurations) / ~45 dB Max

NFRC Certified: No (If Required, Certification Is Possible)

Passive House / PHIUS Certified or Compliant: No (Not Typically Applicable For Steel Systems)

GLASS, PANEL & SEALING

Glass Panes Available: Double / Triple

Glass / IGU Maximum Depth: ~1 3/4"

Panel Options Available: Fixed, Casement (inward & outward), Tilt & Turn, Top-Hung / Bottom-Hung

Panel Placement Options: Inward + Outward Opening

Number of Gaskets: 3 (central + internal + external)

SDL Bars Available: Yes

Hurricane Rated: No (If Required, Custom Engineering Required)

HARDWARE & OPERATION

Hinge Types: Concealed Standard / Exposed Available

Handle Pin Diameter: 7 mm Window

Regular Leaf / Hidden Leaf: Both Options Available

Motorization Achievable: Yes

Alarm System Integration Achievable: Yes

Smart Home Compatibility Achievable: Yes

ADA Compliance Options: Yes

Child Safety Options: Yes

FINISH, SCREENS & SPECIAL FEATURES

Material-Based Finishes: Natural brass/bronze, polished, satin, patinated, or living (no applied color layer)

Coastal / Marine-Grade Option: Yes – inherent corrosion resistance (bronze preferred; stainless recommended for extreme exposure)

Insect Screens: Fixed

Threshold Available: N/A

Craftsmanship for over 30 years





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Glass, Glazing & Infill

Glazing Completely Customizable To Your Spec



Standard Configurations

- Triple-pane insulating glass unit – 4 / 18 / 4 / 18 / 4
- Glass / IGU / Panel Depth Range: $\approx$ 15/16" – 2 5/16"
- Low-E coatings on surfaces #2 and #5 for optimized thermal performance
- Center-of-glass performance: $U_g = 0.09 \text{ BTU/ft}^2\cdot\text{hr}\cdot^\circ\text{F}$

Build & Capacity

- Glazing thickness range:
- Designed for high-performance triple-glazed, and quad glazed assemblies
- Panel infill options: insulated core (polystyrene) with structural plywood backing

Spacer Systems

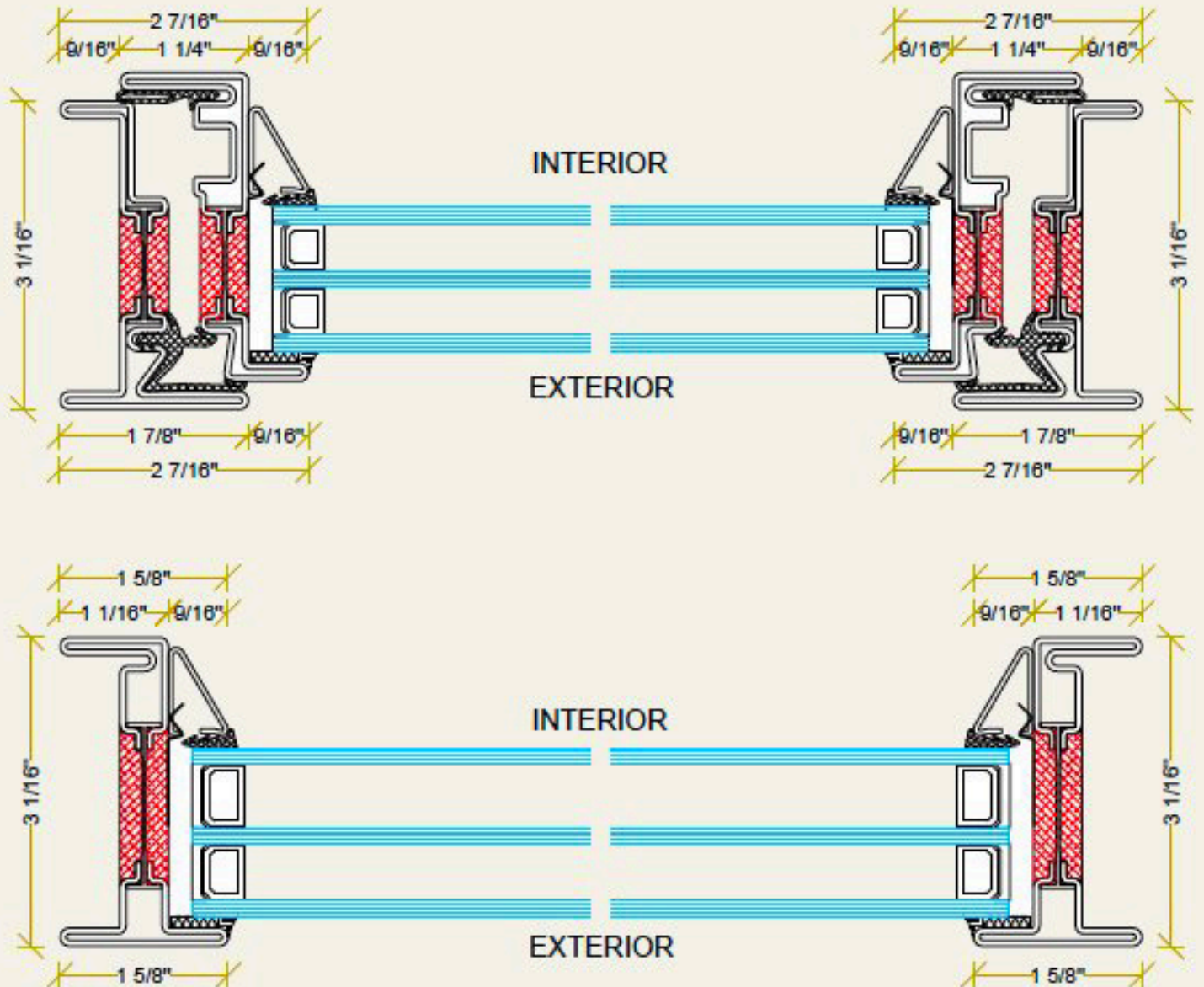
- Standard: Swisspacer Advanced (warm-edge)
- Options: Swisspacer Ultimate, aluminum

Glass Options

- Safety glazing – tempered (standard) or laminated
- Acoustic / sound control glass
- Decorative options – privacy (satinated), patterned, reflective, anti-reflective, stained
- Bird Friendly Glass
- Impact Resistant / Bulletproof Glass
- Fire Rated Glass
- Hurricane Rate Glass

Technical Drawings

[Click Link For Architectural Steel Technical Drawings](#)



Frame Details

Proportion

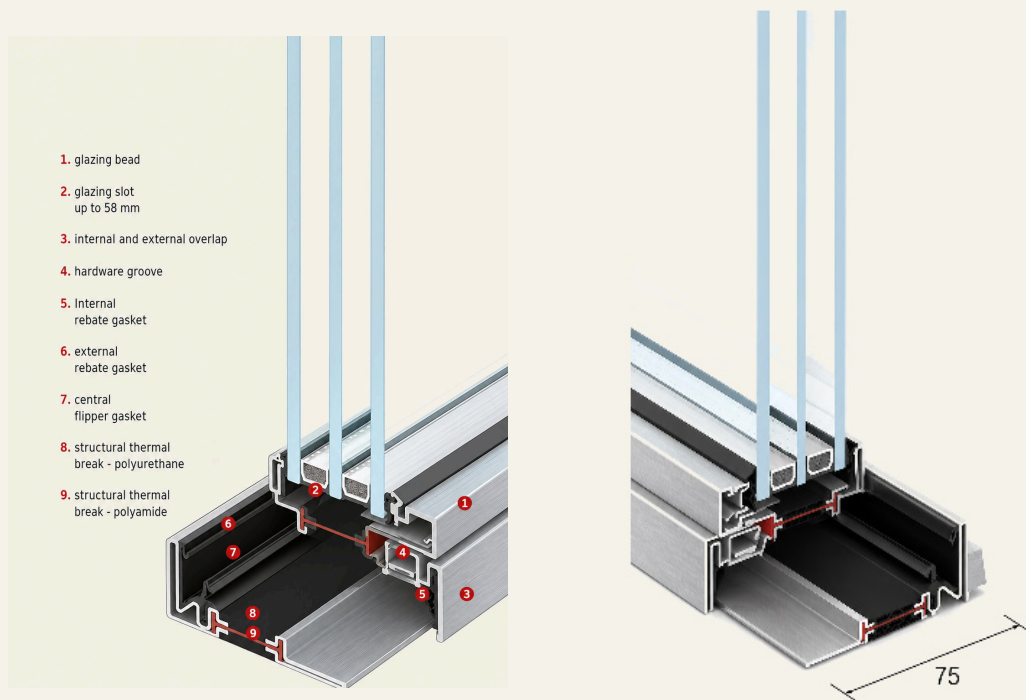
- Fixed units remain clean and minimal
- Operable units introduce slight depth for hardware and performance
- Slim aluminum profiles maintain consistent sightlines across configurations

Material Build

- Thermally broken aluminum system – strength with thermal control
- Polyamide thermal breaks – separation of interior and exterior climates
- Engineered multi-chamber profiles – structure, insulation, and drainage integrated

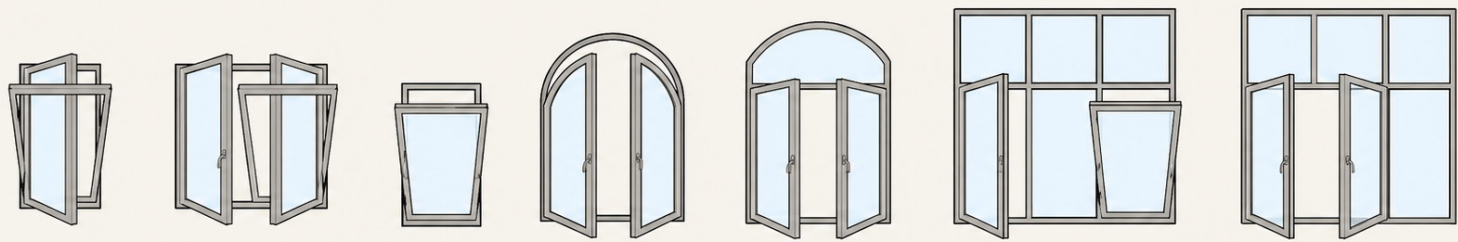
Compatible with tilt & turn, door, lift & slide, pivot, and folding systems

Glazing range: 1 3/8" – 1 7/8"

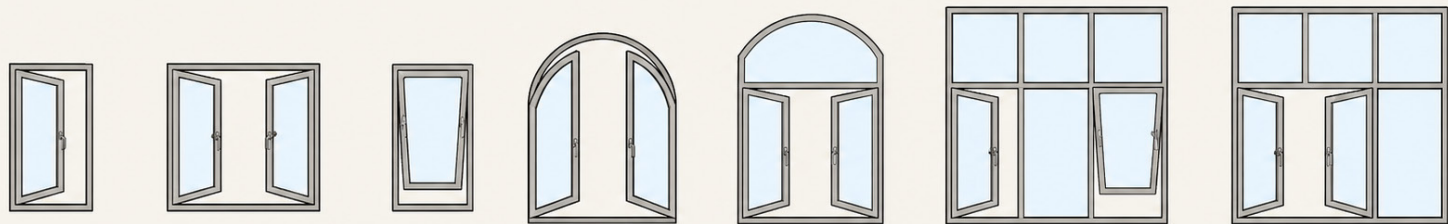


Configurations

GEOMETRY AVAILABLE



internal opening



external opening

Finish & Color

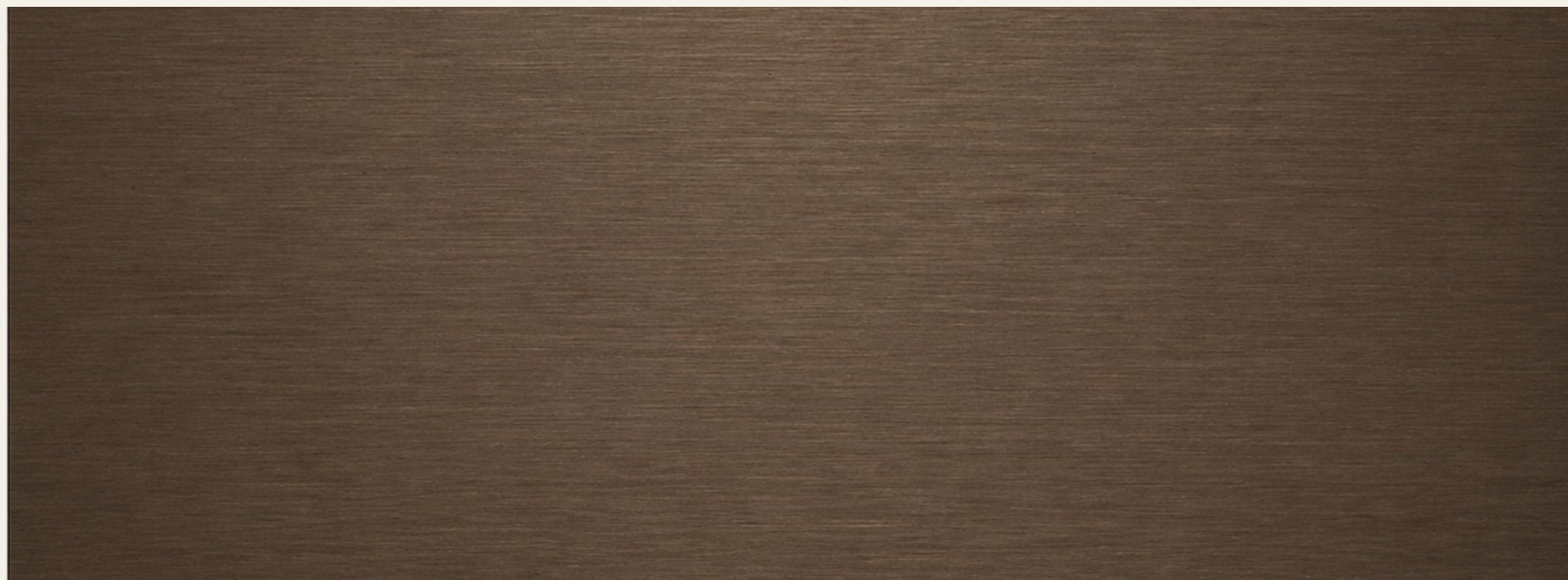


Brass Cold-worked OT67 brass — rich tone, high strength, corrosion resistant.
Slim, durable sections with a refined, architectural finish.
Naturally oxidizes to a deep bronze patina — self-protecting, ideal for harsh and marine environments.
67% copper for corrosion resistance, 33% zinc for strength.
100% recyclable.

Satin

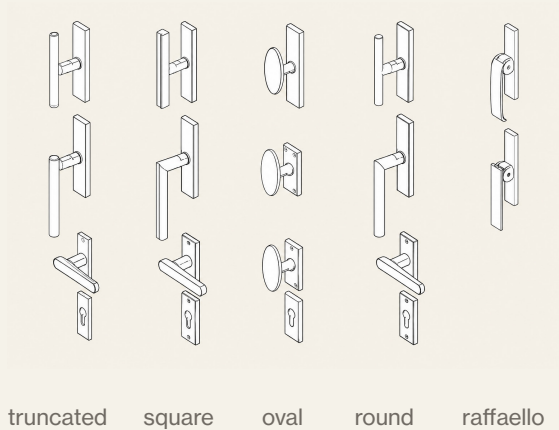


Burnished



Handles

Handles align with the system – same material, same finish, no visual break. Two families: Vitruvio and Raffaello.



Select Third-Party Brands

FSB

FORMANI®

ROCKY MOUNTAIN
HARDWARE

A | FROM THE ANVIL

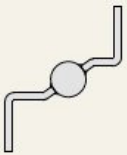
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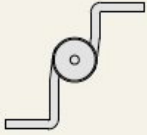
Hinges & Fittings

Small. Strong. Built
for heavy doors.
Matched finish –
disappears into the
frame.

Adjustable. Proven
under load.



two-wing



three-wing



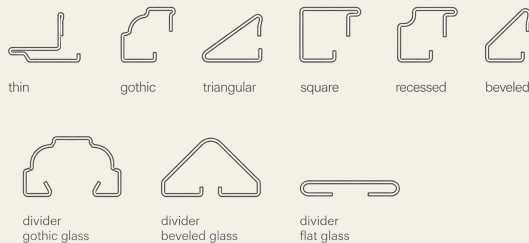
welded



Glazing Beads

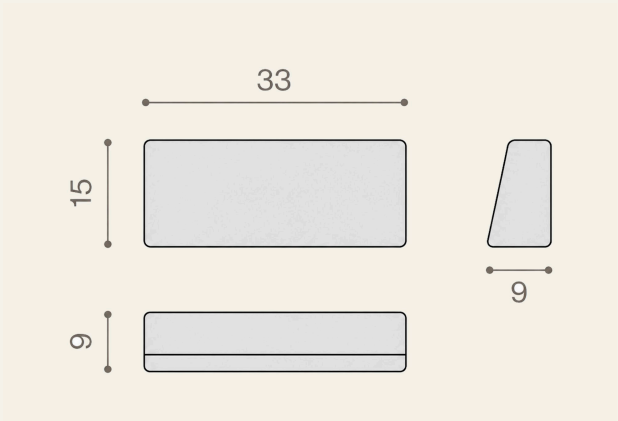
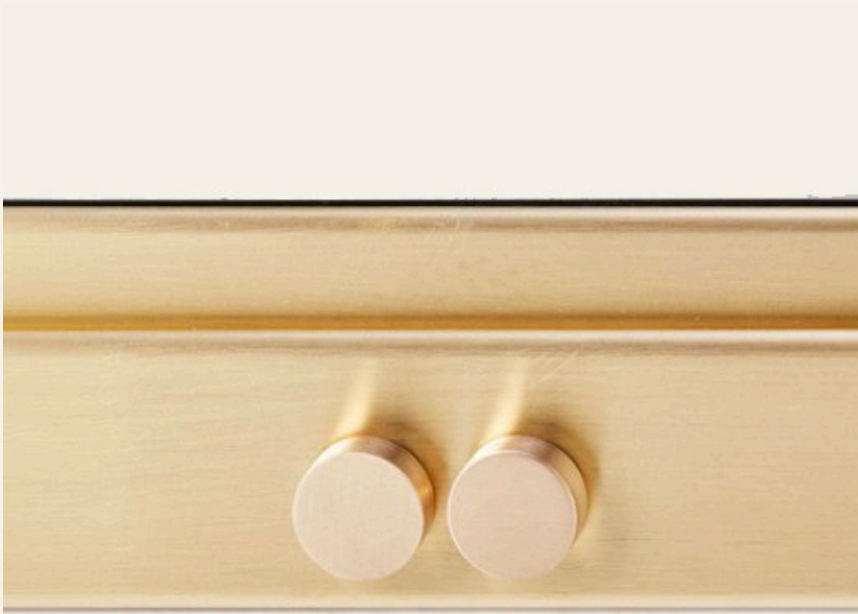
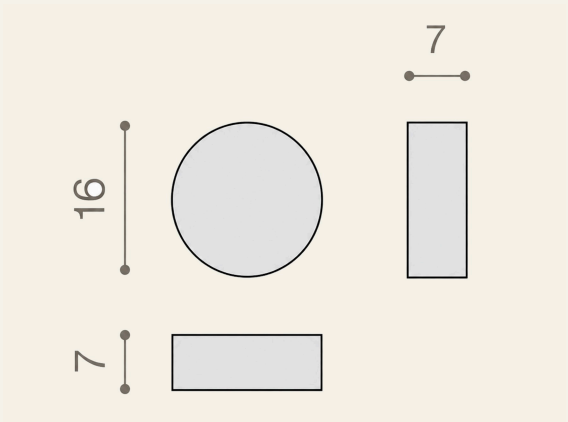
Glazing beads secure the glass and complete the frame.

Clean, minimal forms – square, triangle, L – each shaping the final read of the window.



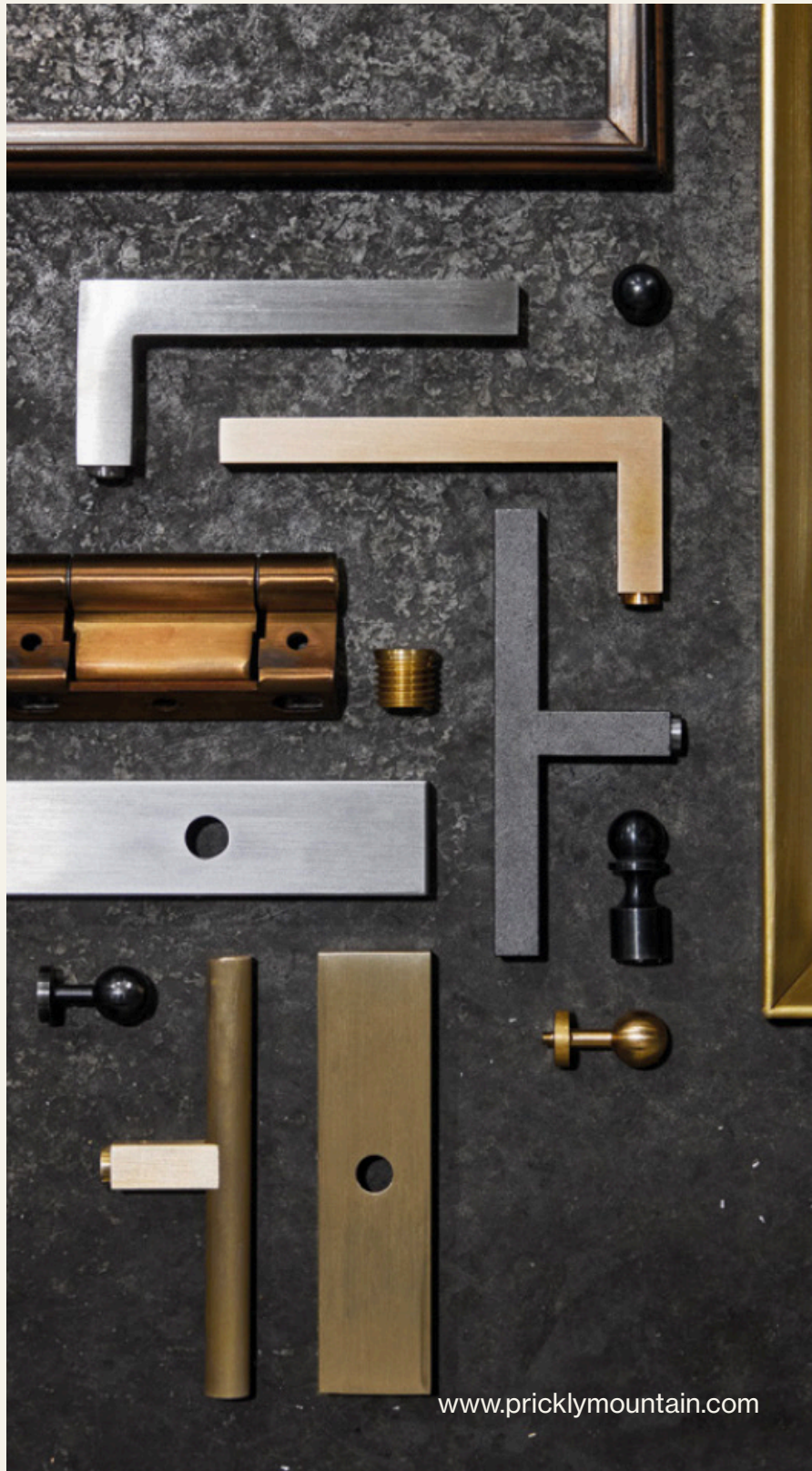
Water Management & Drainage

Two forms: trapezoidal and round.



Accessories

Accessories are developed as a continuation of the system – integral, not applied. Glass stops, handles, and hinges share the same finishes – allowing them to visually dissolve into the frame.



Performance

SYSTEM PERFORMANCE

Air Infiltration: Class 4 $\approx$ ~0.03–0.08 cfm/ft²

Water Tightness: Class 9A $\approx$ ~12–15 psf

Wind Load Resistance: Class C5 $\approx$ ~60 psf

U.S. performance values require certified testing where applicable.

THERMAL PERFORMANCE

- Uw: 0.17–0.25 typical range
- Ug: 0.09 BTU/ft²·hr·°F (triple-pane reference – glass dependent)
- Uf: 0.44 BTU/ft²·hr·°F
- Ψ (Psi Values): ~0.037–0.039 (Swisspacer - Advanced)

SOLAR & LIGHT

- SHGC: 37%
- VT: ~47% - 70%

AIR & ACOUSTIC

- Air Infiltration: $\leq$ 0.05 cfm/ft²
- Rw: ~38–45 dB (Standard Configurations) / ~45 dB Max

Installation Overview

Contact Prickly Mountain Directly For The Full Steel & Brass/Bronze Install Guides.

**#1 Rule: If it's not square, level, and plumb – nothing else matters.
Set it right, or it will not perform.**

**1/2" = Recommended gap between rough opening & outer edge of window or door frame
Mounting Methods**

- Typically installed via direct frame anchoring through factory pre-drilled pilot holes, or using engineered bracket systems (project-dependent)
- Method must align with structure, substrate, and load conditions
- Fastening strategy typically defined at shop drawings stage

Screws

- Proper screw type, spacing, and load capacity is critical
- screws must transfer weight safely into structure – not finish materials
- Incorrect placement = deflection, misalignment, and long-term failure



Mulling & Stacking

- Multi-unit assemblies require precise alignment and sequencing
- Structural support must account for combined system weight and movement
- Tolerances tighten as units scale – small errors compound quickly

Critical Requirements

- Openings must be square, level, and plumb
- Structure must be true and fully supported
- Sill conditions must be continuous, level, and properly prepared
- Units must be installed without forcing or correcting field errors

Site Coordination

- Confirm rough openings, elevations, and tolerances before delivery
- Ensure handling equipment is available (units are heavy)
- Protect units during construction – dust, debris, and moisture matter

Most Important

Installation quality directly impacts performance, operation, and longevity.
All installation must follow approved shop drawings and best building practices.

High-Performance Building Products Recommended With Our Systems



Accessibility, Child Safety & ADA Considerations

Designed for accessibility, safety, and intuitive daily use.

Operability

- One-hand use
- No grasping, pinching, or twisting
- Low-force hardware (system-dependent)

Reach

- Within accessible ranges
- Forward $\leq 48"$ AFF
- Side $\leq 54"$ AFF

Thresholds

- Low-profile / flush options
- ADA height + bevel compliant

Clear Opening

- 32" minimum achievable
- Dependent on configuration

Hardware

- Lever-based, accessible systems
- No knobs
- Electronic access available

Automation

- Motorized options
- Smart integration
- Manual override standard



Child Safety

- Lockable handles and restrictors available
- Controlled opening limits for ventilation
- Optional keyed or concealed safety hardware
- Designed to reduce fall risk in operable units

Technical

All Dimensions, Sizing Ranges, And Performance Values Are Provided For Reference And Are Confirmed During The Shop Drawing And Engineering Process For Each Project

Performance Values Shown Are Based On Standard Assemblies. Project-Specific Performance Is Determined Through System Configuration And Engineering

Proper installation requires project-specific detailing developed by the Architect or waterproofing consultant and coordinated with the overall building envelope design

Finish Disclaimer

Colors and finishes shown are for reference only. Final appearance may vary due to metal variation, lighting conditions, and production processes. Physical samples should be reviewed and approved prior to order. Brass is a living material and will evolve over time, developing natural patina and variation unique to each installation

Specialty sizes for both fixed and operable windows may be available at an additional cost. Please consult with Prickly Mountain for project-specific options

Water management performance is achieved through a combination of profile geometry, sealing systems, and concealed drainage paths. Final performance is dependent on proper installation, flashing integration, and site conditions

Accessibility compliance is configuration-dependent and must be verified at the shop drawing and specification stage. Final compliance is subject to project conditions, installation, and applicable local codes

Accessibility Considerations

Select hardware, low-threshold, and motorized configurations may support accessible design goals. Final compliance must be verified by the design team based on project conditions, selected configuration, and applicable code

Prickly Mountain Strongly Recommends Contractors Experienced In European Fenestration Installation

Information in this document can be modified without notice

Warranty Overview

Coverage You Can Count On

- 15 Years – Insulated Glass Units (seal failure / internal fogging)
- 20 Years – Frames & Structural Components
- 10 Years – Laminated Glass Integrity
- 5 Years – Hardware & Operating Components
- 10 Years – Factory Finishes (adhesion / manufacturing defects)

What's Covered

- Manufacturing defects in materials and workmanship under normal use
- Conditions that materially impair intended function or structural performance
- Factory-supplied and factory-applied components

What's Not Covered

- Installation, labor, freight, or site-related conditions
- Normal wear, maintenance, weathering, or adjustment
- Glass breakage, condensation, or inherent optical characteristics
- Damage arising from construction, environment, misuse, or surrounding building conditions

How It Works

- Covered issues are addressed in accordance with our Limited Warranty
- Replacement components only – labor, freight, and field costs excluded
- Coverage begins from delivery or shipment-based warranty commencement, not installation date



www.pricklymountain.com