

(Dependent on Width × Height Ratio)



Timber Clad I

Timber Interior. Aluminum-Clad Exterior.
Simplified Without Compromise.



60+

Expected
Service Life
(Years)



0.14 - 0.21

Uw
Whole Window
U-Value



3

Glazing Layers
(Triple Pane)



2

Low-E Coatings
(#2 & #5)



71%

Visible Light
Transmitted (VT)



4-6

Perimeter
Seals



32 dB

Acoustic
(Standard)

Craftsmanship for over 30 years



Inside



Outside



*Shown w/ sill extension accessory add-on.



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Quick Facts

PRICE, WARRANTY & DELIVERY

Product Lifespan: 60+

Warranty Length: 10 Years Frames / 5 Years Components Covered

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

Key Pros / Cons: Pro - Durable Exterior Protection / Con - Higher Up-Front Cost

Lead Times - Total From Signed Shop Drawings to Product Site [Weeks] :

- **NYC Area:** 14
- **New England:** 14
- **Southeastern US, Florida:** 15
- **Great Lakes/Chicagoland:** 15
- **Texas:** 16
- **Rockies (Colorado, Idaho, Montana, Utah, Wyoming):** 16
- **West Coast/California:** 16-18

DIMENSIONS & PERFORMANCE

Frame Depth: Wood 2 11/16" / Clad 3 3/8" • 3 1/8"

Frame Width: 3 7/8"

Max Height: 8'-0 1/2" (Can Go Higher With Heavy-Duty Power Hinges)

Max Width: ~5'-0"

Max Area: —

Min Height: 16"

Min Width: ~18"

Glass / IGU / Panel Depth Range: 1-1/16"

Max Glass Weight per Panel: —

THERMAL, STRUCTURAL, ACOUSTIC

U-Factor Range (BTU/hr·ft²·°F): Uw 0.14 - 0.21

Frame Thermal Break Depth: N/A (Wood Core System)

Air / Water / Structural Ratings:

Acoustic Performance: 32 dB (Standard Configurations) / ~42 – 45 dB Achievable

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

Passive House / PHIUS Certified or Compliant: Certified No/ Compliant Yes, Depending On Project Location

GLASS, PANEL & SEALING

Glass Panes Available: Double / Triple

Glass / IGU Maximum Depth: 1-1/16"

Panel Options Available: Fixed / Tilt & Turn

Panel Placement Options: Inward Opening

Number of Gaskets: 2–3 (Typical)

SDL Bars Available: Yes

Hurricane Rated: No (If Required, Certification Is Possible)

HARDWARE & OPERATION

Hinge Types: Concealed Standard / Exposed If Needed

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

Color Options: RAL / Custom / Dual-Finish

Coastal / Marine-Grade Option: Yes

Insect Screens: Fixed

Threshold Available: N/A

Performance

SYSTEM PERFORMANCE

Air Infiltration: Class 3 $\approx$ ~0.06–0.10 cfm/ft²

Water Tightness: Class 5A $\approx$ ~7–9 psf

Wind Load Resistance: Class C2 wind $\approx$ ~30–35 psf design pressure

*Air / Water / Structural Ratings As Per EN 1026 / 1027 / 12211
U.S. performance values require certified testing where applicable.*

THERMAL PERFORMANCE

- U_w : 0.14 – 0.21
- U_f : from 0.23
- U_g : $U_g = 0.09 \text{ BTU/ft}^2\cdot\text{hr}\cdot^\circ\text{F}$
- Ψ (Psi Values): ~0.037–0.039 (Swisspacer - Advanced)

SOLAR & LIGHT

- SHGC: 37%
- VT: 56%

AIR & ACOUSTIC

- Air Infiltration: $\leq 0.10 \text{ cfm/ft}^2$
- R_w : 32dB (Standard Configurations) / ~42 – 45 dB Achievable

Glass, Glazing & Infill

Glazing Completely Customizable To Your Spec



Standard Configuration

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

Build & Capacity

- Glazing thickness range: 1 9/16" – 2 5/16"
- Designed for high-performance triple-glazed assemblies
- Panel infill options: insulated core (polystyrene) with structural plywood backing

Spacer Systems

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

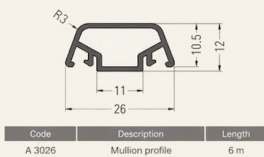
Glass Options

- 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

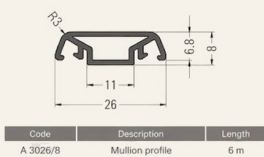
SDL Bars

Aluminum

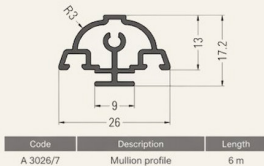
Profile set – mullion and transom profiles



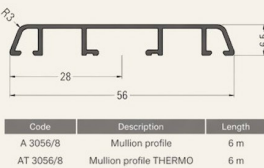
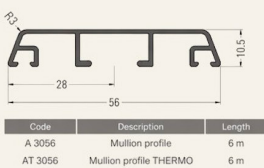
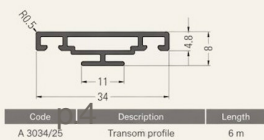
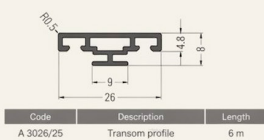
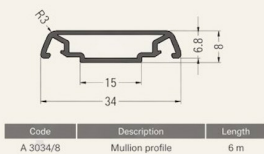
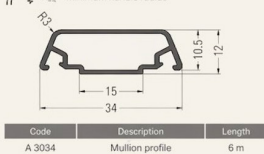
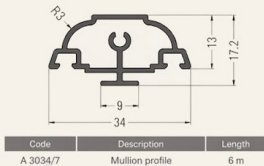
Technical information:
 $R_{ext} = 250 \text{ mm}$
 $R_{int} = \text{minimum handle radius}$



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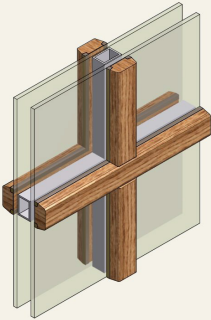


Technical information:
 $R_{ext} = 325 \text{ mm}$
 $R_{int} = \text{minimum handle radius}$

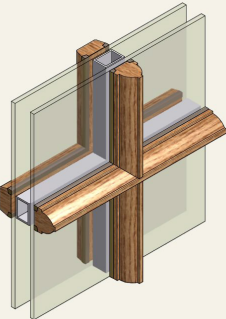


Timber

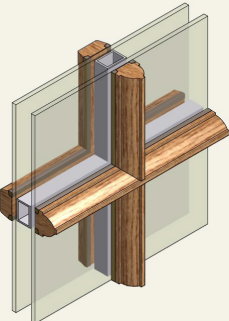
Option A



Option B

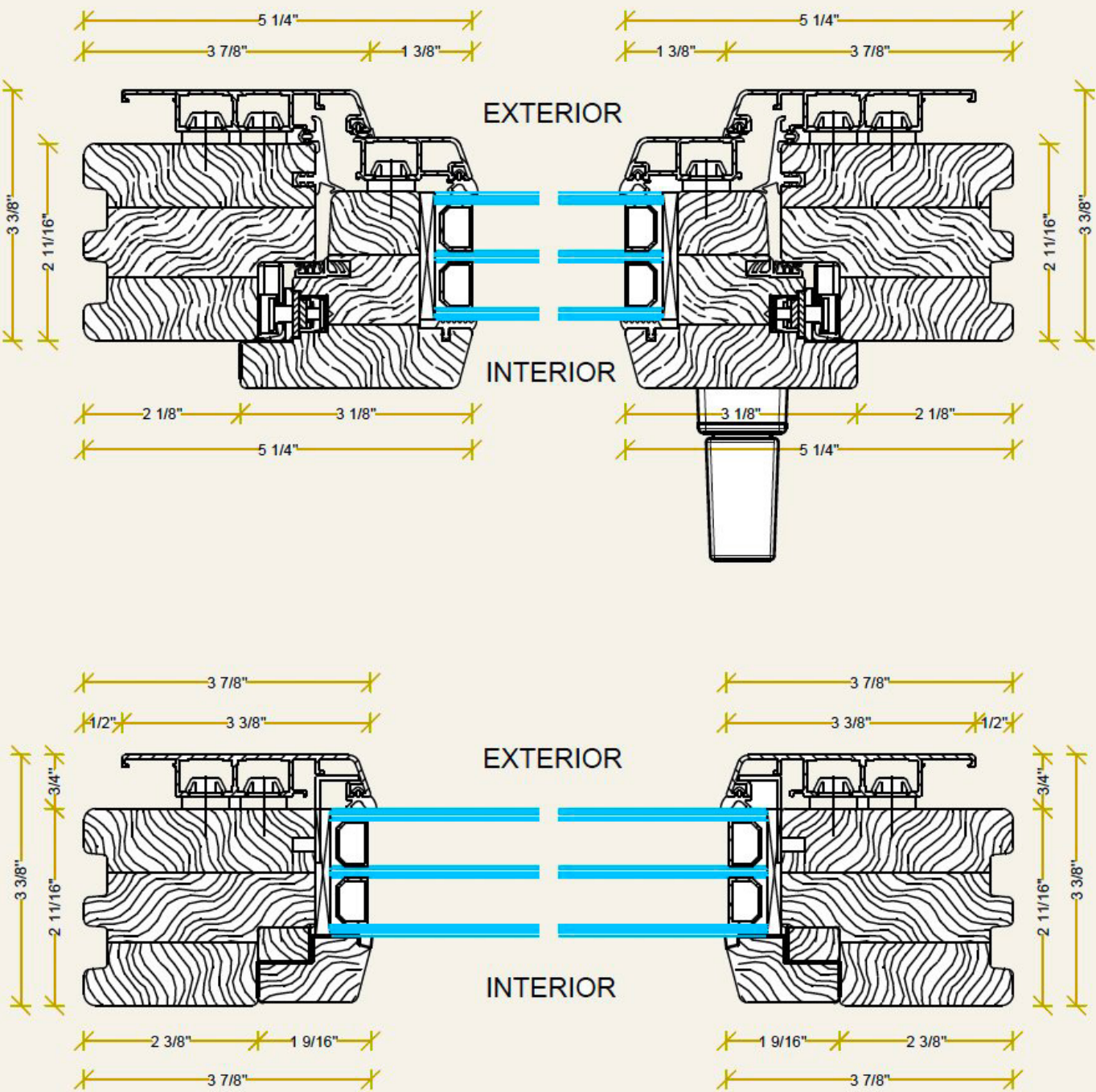


Option C



Technical Drawings

[Click Link For Timber Clad I Full Technical Drawings](#)



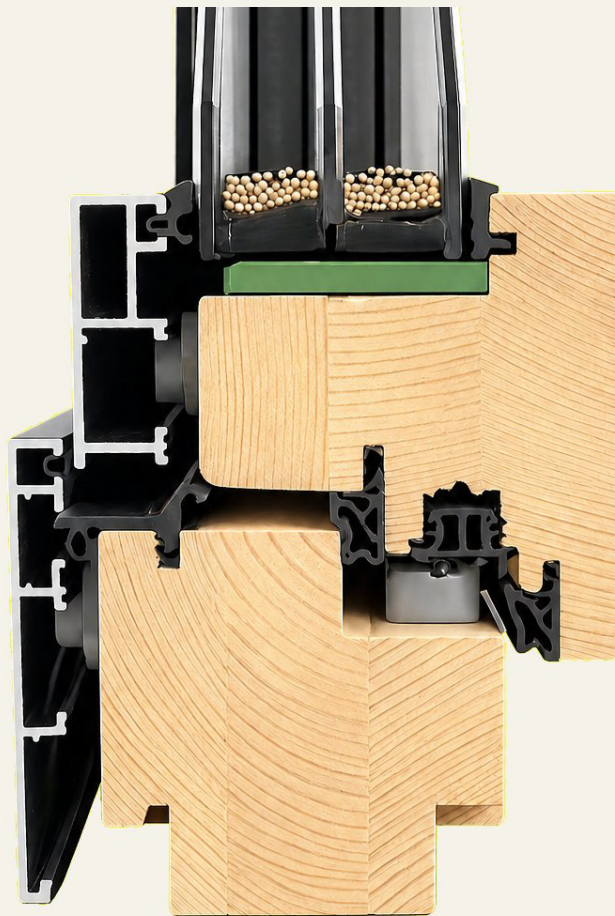
Frame Details

Proportion

- Fixed units remain clean and minimal
- Operable units add depth where required for structure and hardware
- Profiles stay controlled – no excess, no bulk

Material Build

- Laminated timber core – stability and alignment
- Aluminum exterior – protection from weather exposure
- Multi-layer construction – structure, insulation, and durability working together



Installation Overview

Contact Prickly Mountain Directly For The Full Timber Clad I & II Installation 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

- Installed using engineered bracket systems or direct anchoring (project-dependent)
- Method must align with structure, substrate, and load conditions
- Fastening strategy defined at shop drawings stage

Brackets

- Proper bracket type, spacing, and load capacity is critical
- Brackets 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

Important

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



Timber Species

We use high-quality laminated timber, with portions of production controlled in-house to ensure consistency, durability, and finish quality.

Primary Species

- **Pine** – versatile, stable, and widely used structural softwood
- **Oak** – **dense hardwood with a timeless, architectural character**
- **White Meranti** – uniform tone, refined grain, strong dimensional stability (limited availability)
- **Red Meranti** – rich reddish-brown tone with excellent durability and presence

Additional Species (Upon Request)

- **Larch**
- **Spruce**
- **Teak**
- **Iroko**
- **Sapelli**
- **American Walnut**

LAMINATED TIMBER CONSTRUCTION

All profiles are built from multi-layer laminated timber, engineered for long-term stability and performance.

Construction consists of 3–4 bonded layers, with inner structural layers finger-jointed for strength and efficiency. Outer layers determine the final visual grade.

For elements exceeding ~8'-6", outer layer joints may be introduced where required.

Solid Laminated Timber

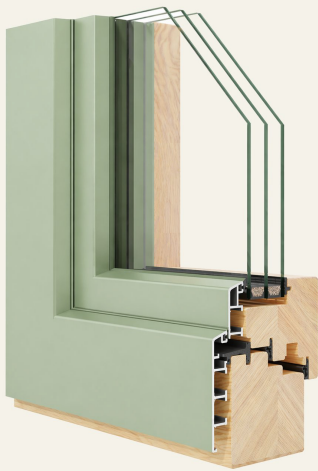
- Continuous outer layers (no visible joints)
- Used for transparent finishes
- Preserves natural grain and material expression
- Preferred for premium species and architectural applications

Finger-Jointed Laminated Timber

- Engineered outer layers with visible joints
- Used for opaque (painted) finishes – RAL / NCS
- Maximizes material yield and sustainability
- Provides excellent dimensional stability

Profile Types

Classic



Quadrat



Quadrat FB



Softline



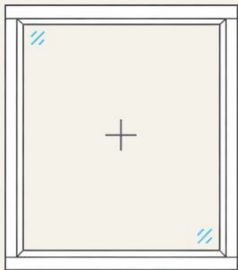
Linear



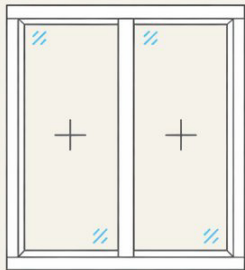
Integral



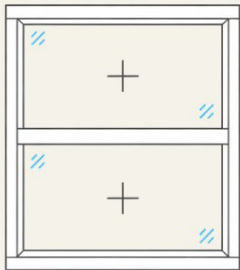
Configurations



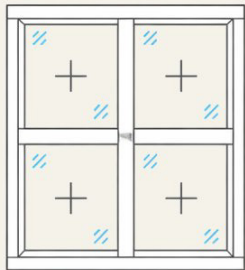
FIXED FIELD



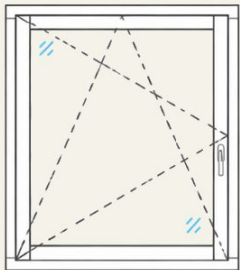
DOUBLE
FIXED FIELD



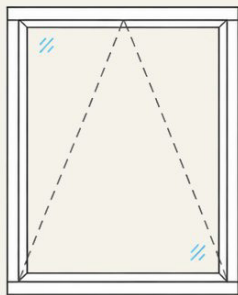
DOUBLE
FIXED FIELD



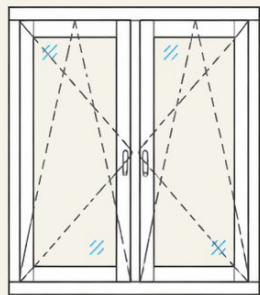
QUADRUPLE
FIXED FIELD



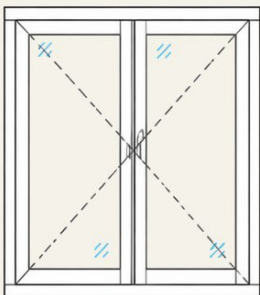
TILT & TURN



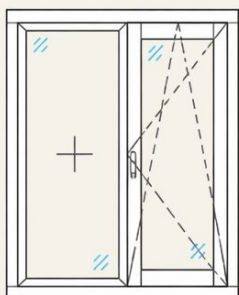
TILT
(INSWING)



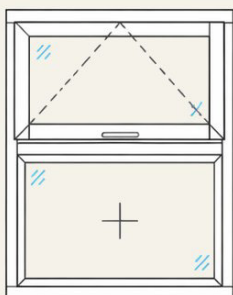
DOUBLE
TILT & TURN



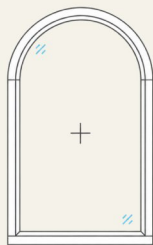
TILT & TURN + TURN
(OPERABLE MULLION)



TILT & TURN +
FIXED FIELD



TILT + FIXED FIELD
(INSWING)



ARCH FIXED



ARCH OPERABLE

Finish & Color

Finish & Color Range

Coating System

- 3–4 layer system: impregnation / primer / intermediate / topcoat
- End-grain protection at joints (HSM + V-joint sealing)

Color

- Transparent – species-specific (Pine, Meranti, Oak; others by sample)
- Opaque – RAL palettes
- Dual-finish – interior / exterior independently specified
- Matte, glossy, structure, or metal finish

Specialty

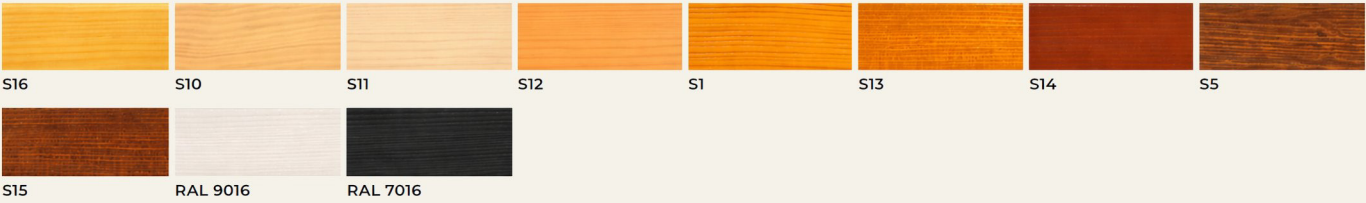
- Oil finish – Rubio Monocoat system, matte low-build surface
- Brushed – hand-finished grain with increased depth and texture



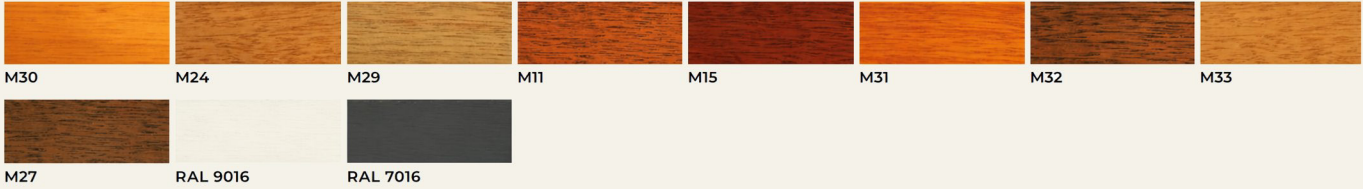
Timber (Wood)



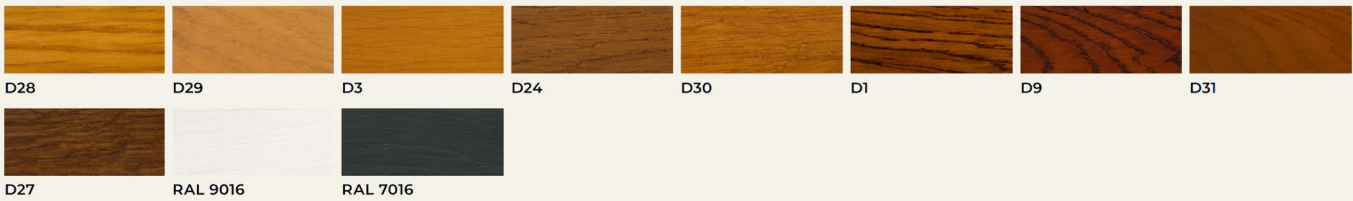
PINE



MERANTI



OAK



Exotic Species

- Larch
- Spruce
- Teak
- Iroko
- Sapelli
- American Walnut

Aluminum Cladding

Engineered as a protective outer shell, aluminum cladding provides long-term environmental resistance while maintaining precise color control and a refined architectural finish.

Color & Finish Range

- RAL color palettes – extensive architectural range (matt, texture, satin, gloss)
- Dual-finish capability – independent interior and exterior color selection

Powder Coating Standards

- QUALICOAT certified – high resistance to UV, temperature fluctuation, and mechanical wear
- QUALICOAT SEASIDE – enhanced corrosion protection for coastal or aggressive environments
- AAMA 2604 – long-term exterior durability and color stability

Anodized Finishes

- QUALANOD standard – refined metallic tones with natural depth
- High resistance to abrasion, UV exposure, and environmental wear
- Controlled color tolerances – consistent output across C0, C33, C34 ranges



Handles

Spindle Diameter: 7mm

Spindle Length: Typically $\approx 1\frac{3}{8}"$ to $1\frac{3}{4}"$

Handle Height

Standard: centered on sash

Adjustable: within middle third of sash (size and hardware dependent)

Custom placement: Available upon request – subject to system limitations

Standard Handles (Standard Pricing)

- Can Be Painted To Match Unit Color



Premium Handles (Premium Cost, Limited Availability)



Hinges & Fittings



Hardware

- Multi-Point Lock Perimeter System With Three-Way Adjustment
- Supports Large Sash Weights With Smooth Operation
- Tilt-Turn With Ventilation Standard
- Concealed Hinge Option Available

Optional

Security · Sensors · Restrictors · Motorization

Glazing Beads

Defines the edge condition of the glass.

3 Profile Options

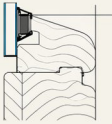
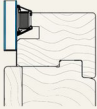
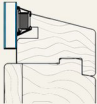
- Classic – Soft, rounded profile for a traditional, timeless expression
- Modern – Clean, minimal edge suited for contemporary architecture
- **Subtle (Recessed)** – Reduced, quiet profile with a lighter visual presence

Performance

- Secure mechanical engagement to hold glazing in place
- Consistent compression for long-term sealing performance
- Designed for durability and serviceability

WOODEN WINDOW SYSTEM

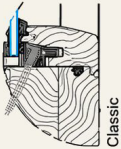
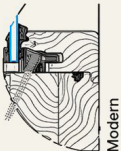
Profile Styles

NAME	STYLE	CHARACTERISTICS	DRAWING
CLASSIC	Traditional	Strongly rounded form providing a timeless appearance.	
MODERN	Modern	Simple form with a minimal radius – ideal for modern architecture.	
SLIDE	Subtle	Slightly recessed, visually light – combining simplicity and elegance.	

Fixed Glazing

Direct glazing system for fixed panels.
Ensures secure glass retention, long-term durability, and a clean, uninterrupted finish.

WOOD-ALUMINIUM SYSTEM
(FIXED SECTIONS)

NAME	STYLE	CHARACTERISTICS	DRAWING
CLASSIC	Traditional	Rounded form with R3 radius – timeless appearance	 Classic
MODERN	Modern	Simple form with a minimal radius – ideal for modern architecture	 Modern

Gaskets & Sealing

Layered system ensuring consistent sealing and long-term performance.

DEVENTER

Member of
Roto Group



- Glazing Bead Gaskets (Dry Glazing, Where Applicable)
- Exterior Silicone Seal
- Rebated Gaskets
- Perimeter And Frame Gaskets

Water Management & Drainage

European window systems are designed to manage water at the exterior, not rely on exposed drainage openings.

Primary Defense – Immediate Water Shedding

- Integrated aluminum drip caps and sash profiles direct water away from the frame
- Sloped geometries prevent standing water and surface retention
- Exterior-first strategy minimizes long-term exposure to moisture

Sealing System – Controlled Barrier

- Multi-layer gasket system (frame, sash, and glazing interface)
- Dry glazing with compression seals for consistent performance
- Optional exterior silicone for enhanced weather protection where required

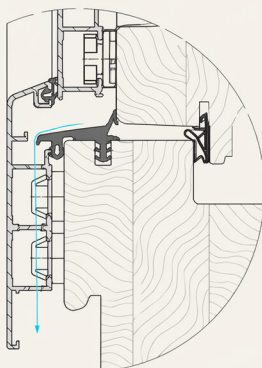
Concealed Drainage – Secondary Protection

- Internal drainage channels integrated within the frame profile
- Water is collected and redirected outward through concealed paths
- No exposed weep holes – clean exterior appearance

Door & Threshold Conditions

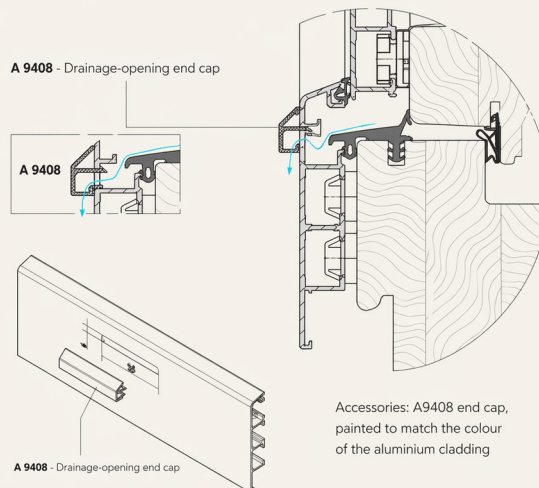
- Optional drain strips and sill systems for high-exposure areas
- Designed to manage increased water load at balconies and large openings

Drainage type D - Standard



Concealed drainage provided through channels in the profile

Drainage type DP - Option



A 9408 - Drainage-opening end cap

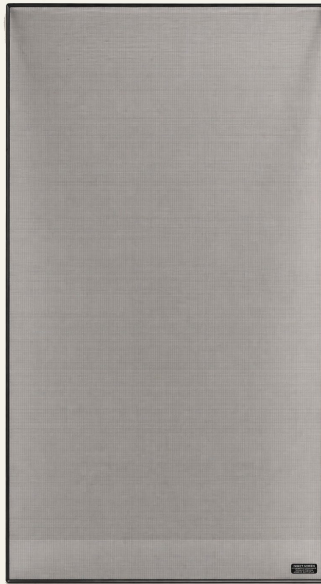
A 9408

A 9408 - Drainage-opening end cap

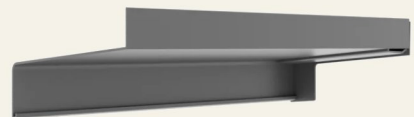
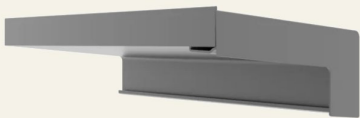
Accessories: A9408 end cap, painted to match the colour of the aluminium cladding

Accessories

Insect Screens



Sill Extensions



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

Considerations

THINGS TO THINK ABOUT WHEN DESIGNING



Size drives system — glass, hardware, and performance scale together



Operable vs. fixed — large openings may require hybrid strategies



Sightlines vs. performance — thinner isn't always better thermally



Hardware location — impacts usability, reach, and daily function



Glass selection — SHGC, coatings, and laminate matter more than most expect

THINGS TO THINK ABOUT WHEN INSTALLING / BUILDING



Structure must support weight — these units are heavy



Openings must be exact — no field “adjusting” like domestic units



Sill condition is critical — water management starts here



Equipment required — plan for telehandler / proper handling



Sequence matters — install timing impacts risk and performance



RED FLAG

- Waiting too long to finalize sizes or details
- Designing oversized operables without confirming feasibility
- Assuming site or installer can “figure it out” later



PRO TIP

- ✓ Lock finish, color, and samples early — custom approvals can extend timelines
- ✓ Lock sizes early and move into shop drawings ASAP
- ✓ Use fixed + operable combinations to control cost and performance
- ✓ Align GC, installer, and supplier before production



HELPFUL TO PONDER

- Triple vs. double pane — performance vs. cost vs. weight
- Spacer upgrades (Swisspacer vs. Ultimate)
- Finish selections — standard vs. specialty
- Hardware upgrades and custom configurations
- Shipping and handling — real cost, not optional



\$ UPGRADE! IS IT WORTH IT?

- ✓ Warm-edge spacer upgrade → yes (long-term performance gain)
- ✓ Higher-performance glass → yes (especially for large exposures)
- ✓ Concealed hardware → yes (aesthetic + perceived quality)
- ✓ Full motorization — depends (use case + budget)
- ✓ Exotic finishes / custom wood → only if it matters visually



KEY TAKEAWAY



Thoughtful planning early leads to better performance, smoother installs, and long-term satisfaction.

Pros vs Cons

 TIMBER CLAD (Wood Interior / Aluminum Exterior)	 uPVC / FIBERGLASS	 ALUMINUM (THERMALLY BROKEN)	 STEEL	 BRASS / BRONZE
✓ PROS • Warm, architectural interior — unmatched material quality • Strong thermal performance (natural insulator) • Aluminum exterior = low maintenance durability • Balanced system — aesthetics + performance • Ideal for high-end residential and design-driven work	✓ PROS • Most cost-effective option • Low maintenance • Good thermal performance • Fast production and installation	✓ PROS • Slim profiles, modern aesthetic • Strong — supports large openings • Durable, corrosion-resistant • Wide range of finishes	✓ PROS • Maximum strength — ultra-slim sightlines • Supports very large glass with minimal frame • Long lifespan (often 60–100+ years) • Strong architectural presence	✓ PROS • Premium, legacy material • Ages and patinas over time • Exceptional durability • Architectural statement — unmatched presence
✗ CONS • Higher upfront cost • Longer lead times (custom finishes / fabrication) • More coordination required (detailing, install, approvals)	✗ CONS • Bulkier profiles, limited sightlines • Limited color / finish depth • Less structural capability for large openings • Lower perceived architectural value → uPVC especially struggles with large spans and rigidity	✗ CONS • Requires thermal breaks to perform well • Can feel colder / less refined inside • More conductive than timber • Larger profiles than steel at same spans	✗ CONS • Highest cost • Heavier, more complex install • Requires proper coating / maintenance to prevent corrosion • Thermal performance depends heavily on system design	✗ CONS • Very high cost • Longest lead times • Heavy systems — structural + install considerations • Primarily aesthetic-driven vs performance-driven choice
 TIMBER CLAD BALANCE + ARCHITECTURE Warmth, performance, and enduring architectural value.	 uPVC / FIBERGLASS VALUE Practical performance and efficiency.	 ALUMINUM PERFORMANCE + SCALE Sleek, durable, and engineered for scale.	 STEEL PRECISION + STRENGTH The ultimate in strength, slim sightlines, and architectural expression.	 BRASS / BRONZE LEGACY Timeless materiality that ages beautifully and makes a statement.

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

Finish Disclaimer

Colors and finishes shown are for reference only. Final appearance may vary due to wood species, grain, aluminum substrate, finish type, lighting conditions, and production processes. Physical samples should be reviewed and approved prior to order. Timber will exhibit natural variation and will evolve over time. Powder-coated finishes may vary slightly by batch. Anodized finishes vary in tone and reflectivity. Textured finishes vary in surface and sheen. Liquid metal finishes are hand-applied and inherently unique

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



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