



Aluminum-Clad Windows and Doors

The Duratherm Difference: Perfecting Craftsmanship and Tradition



Phillips Exeter Academy Library / Architect: Louis Kahn / Photo © Steve Rosenthal / Owned by Historic New England Archives

Duratherm defines the category of all-wood, completely custom, hardwood windows and doors that deliver on your architect vision — and everyone knows it. That is why we refuse to rest on our laurels. While the Duratherm brand is built upon our expertise in wood windows, we are proud to announce the introduction of a clad exterior feature for our windows. Windows shape our vision of the world as frames for views or panels of light. Windows can open a wall or room to embrace the outside, dissolving the wall's material nature, while defining space and having a material presence of their own.

Windows and doors are integral components of both spaces and the surrounding architecture. Their scale, placement, material and many other considerations are critical to the successful implementation of an architect's design. Duratherm's exceptional experience leads to collaboration during development of the design, preparation of details that support the architect's intent, and manufacturer to spec with the precision and quality envisioned by the architect. All of these contribute to an architect's success.

Duratherm founder, Philip Cole delivered on such a vision with Louis Kahn's revered Phillips Exeter Academy Library. The enabling experience created the foundation of Duratherm's success. We have had the pleasure of working with the preeminent architects of contemporary design as well as those at the beginning of their journey. Enabling their designs and yours is our business.

Aluminum-Clad Windows and Doors

PRODUCT

- Storefront/Fixed
- Awning
- Inswing and Outswing Casement
- Inswing and Outswing Door
- Lift/Roll Door
- Slide/Fold Door
- Pivot Door

FINISHES

- Powder Coat: Color match for any custom color (RAL Color Spectrum)
- Anodized options available

PERFORMANCE

Get the performance you have come to count on from Duratherm. Our air/water/structural performance meets national standards, and we can discuss custom testing if the project calls for it.

GLAZING

All glazing is per project specifications. Duratherm can accommodate most configurations and make-ups from 1/8" single glazed to 1 3/4" triple glazing. Breather tubes available for high elevation installations. Available with Simulated Divided Lights.

SCREENS

1" x 1/4" tubular extruded frames in anodized bronze, mill finish aluminum or custom color painted aluminum. Mesh of 18 x 16 screen cloth held with vinyl spline, available in charcoal finished aluminum, mill finish aluminum, stainless steel or bright brass. Maximum width of screen mesh is 72". Wood-framed screens are an available option.

HARDWARE

Tilt/Turn, Hopper, Inswing Casement Operator Multi-latchpoint fully-concealed locking hardware controlled by single lever handle control.

Lever Handle Operating hardware accepts any lever handle with 43mm attachment spacing and 7mm sq. spindle.

Awnings and Outswing Casement Duratherm proprietary pushbar comprised of oxidized bronze alloy components and a solid brass bar, copper plated and oxidized to match bronze. The sill-mounted pushbar operator is designed to be manually operated for the entire length and to hold the sash at intermediate points. Available in one piece or hinged at mid-point. Available in finishes Oil-rubbed Bronze (US10B), Lacquered Red Bronze (US20A), White Bronze (US26D). **Roto-Gear Operator:** Truth Maxim® stainless steel or EntryGard® steel roto gear operator with hardened steel drive worm and plastic slider for smooth operation. Cover and crank handle in high pressure die-cast zinc. In these finishes Oil-rubbed Bronze (US10B), Satin Nickel (US15).

Egress Available as quick-release pin at sash connection.

Sash Locks Oxidized bronze alloy latches ensure positive, uniform locking action available in Oil-rubbed Bronze (US10B), Lacquered Red Bronze (US20A), White Bronze (US26D).

Duratherm aluminum-clad products combine the performance and quality you expect with the advantage of low-maintenance aluminum exterior cladding.

HINGES

Heavy duty extension hinges, solid brass or zinc chromate coated steel. Hinges are designed to help the operator hold the sash in open positions, and to permit ready removal and replacement of the sash. Truth Maxim® series stainless steel hinges are available for appropriate-sized units.

Optional Hardware: Custodial locks, sash restrictors, electric or manual remote operators.

DURABILITY

Wood windows historically last the life of the building. Even many century-old buildings retain original wood windows. Our new Aluminum Clad products add the benefit of low maintenance exteriors.

ENERGY PERFORMANCE

- Duratherm window and door systems are designed to achieve high energy efficiency in the harshest climates.
- Wood interiors, unlike metal, produce no condensation, making it ideally suited for high- or balanced-humidity environments.
 - Thermal properties complement energy-conserving glazing innovations.
 - Duratherm is National Fenestration Rating Council (NFRC) certified.
 - Our products meet Window & Door Manufacturers Association (WDMA) standards.

MAINTENANCE

Aluminum cladding on the exterior of wood windows provides protection from the elements and is nearly maintenance-free.

LIFE CYCLE COSTS

Duratherm Aluminum clad wood windows systems result in lower life cycle costs with respect to energy loss, maintenance and replacement over the life of a building.

SUSTAINABLE DESIGN

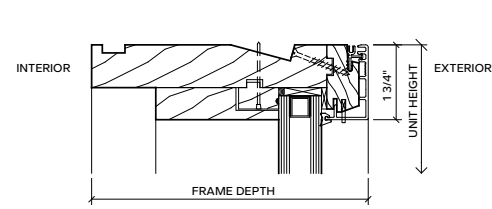
- Wood is sustainable and renewable. It needs less energy to produce than any other building product.
- Forest Stewardship Council (FSC) certified wood species are available.
 - Our designs help to achieve Leadership in Energy and Environmental Design (LEED) Green Building Certification goals with the use of certified woods and high performance glazing.

AESTHETICS

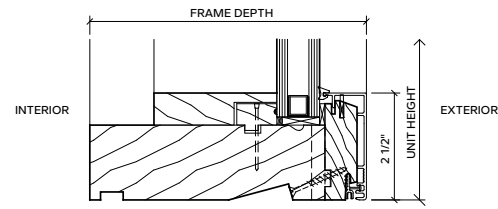
Duratherm aluminum clad windows have a solid wood interior that has character and depth. It compels us to look, touch, and feel. Its rich natural color, grain and texture bring beauty and warmth to designs. Architects liken a Duratherm window to finished carpentry.

Clad Exterior/Wood Interior Windows

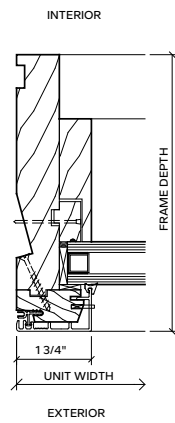
FIXED FRAME



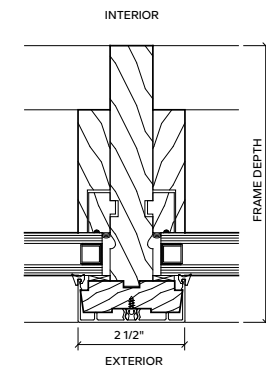
Head



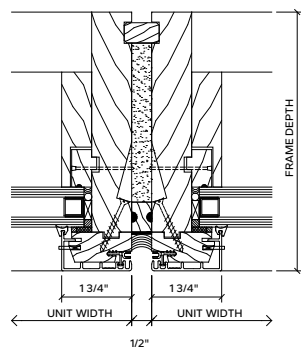
Sill



Jamb

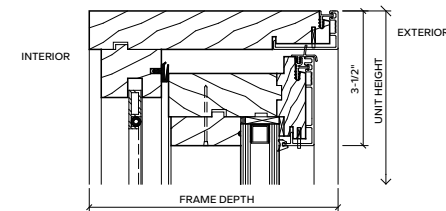


Common Frame Mullion

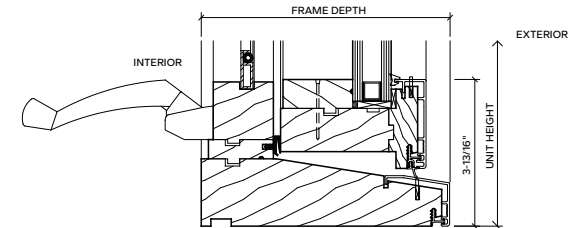


Mulled Unit Detail

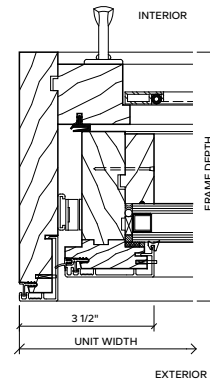
AWNING



Head

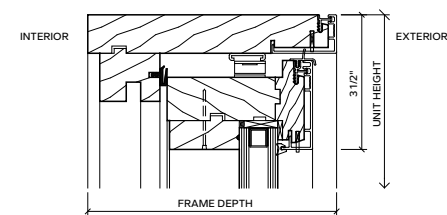


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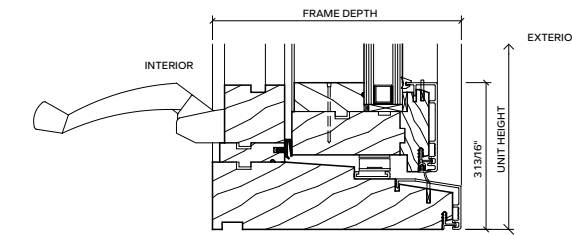


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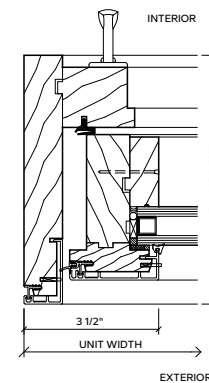
CASEMENT



Head



Sill

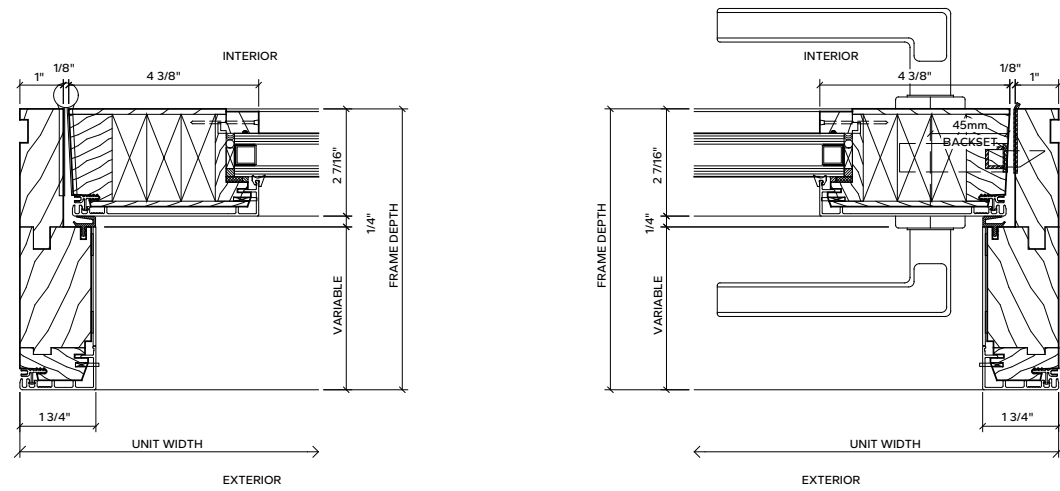


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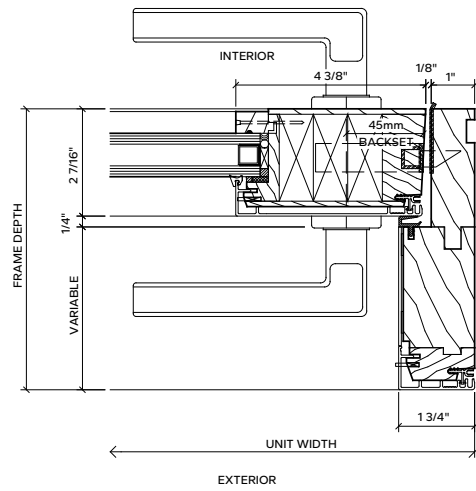
Downloadable CAD files available at durathermwindow.com.

Clad Exterior/Wood Doors

INSWING DOOR

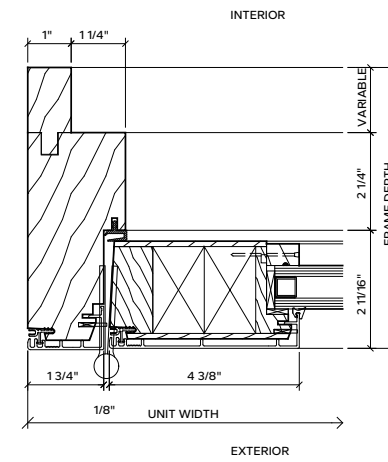


Hinge Jamb

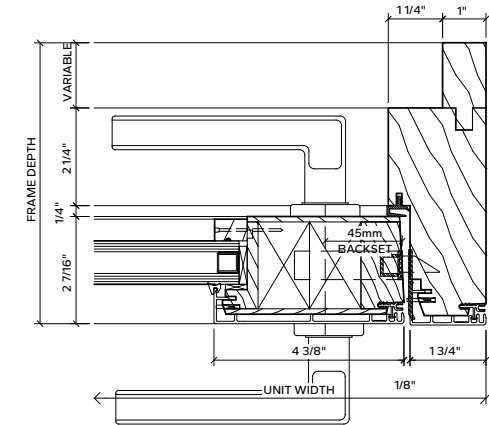


Latch Jamb

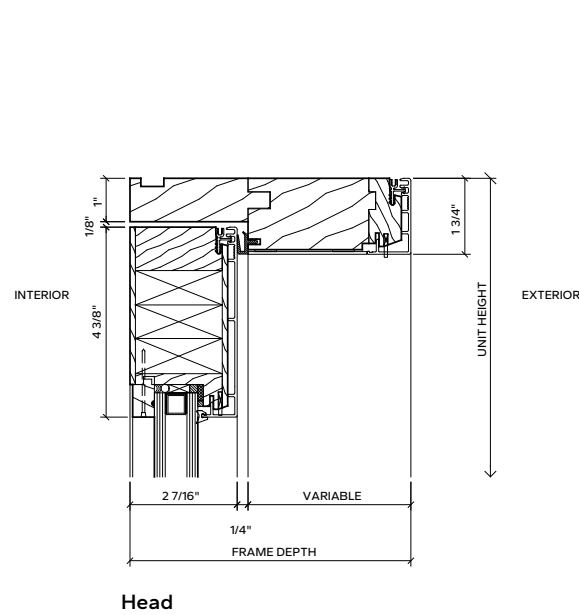
OUTSWING EXTERIOR DOOR



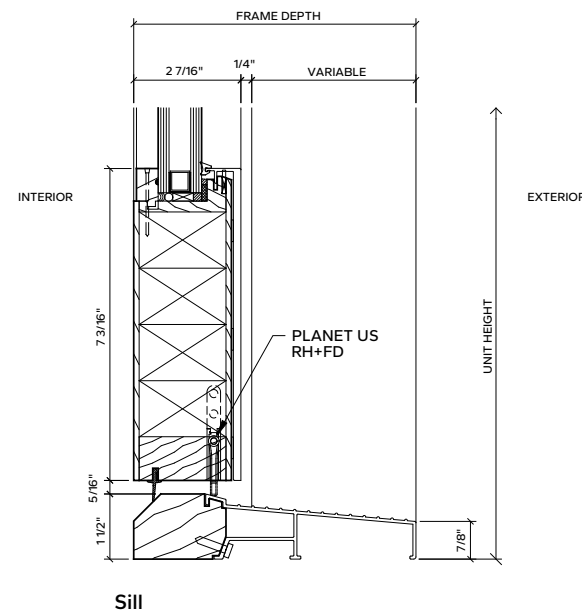
Hinge Jamb



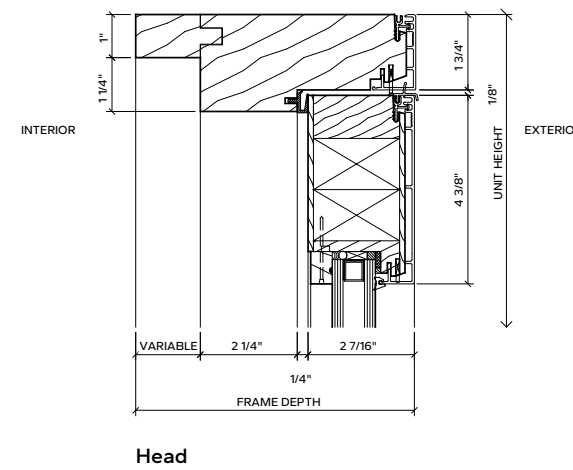
Latch Jamb



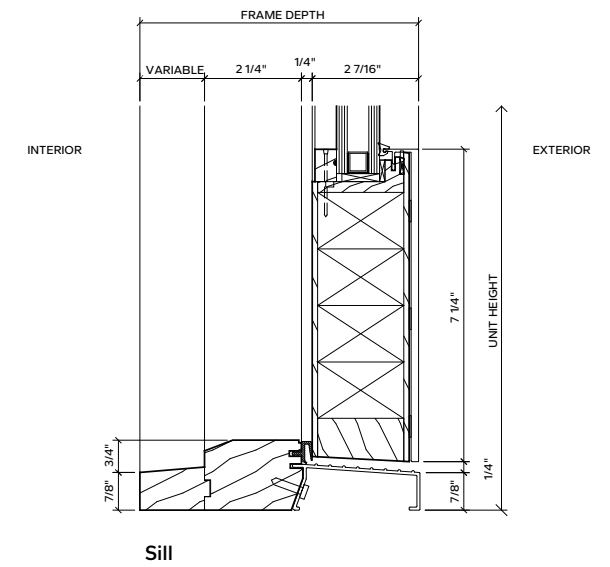
Head



Sill



Head



Sill

Clad Corner Model

BLACK ALUMINUM CLAD EXTERIOR/
WHITE OAK WOOD INTERIOR



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Because of service and quality, Duratherm is always our first choice for wood windows.

– Tod Williams, Tod Williams Billie Tsien Architects



Explore more at durathermwindow.com