

HISTORIC AND DESIGN REVIEW COMMISSION

June 21, 2023

HDRC CASE NO: 2023-240
ADDRESS: 820 N ALAMO ST
LEGAL DESCRIPTION: NCB 452 BLK 30 LOT 6
ZONING: FBZ T4-2, HL
CITY COUNCIL DIST.: 1
APPLICANT: Nick Marquez/Barhouse LLC
OWNER: Nick Marquez/Barhouse LLC
TYPE OF WORK: Window replacement, fenestration changes (doors), siding replacement, Conceptual approval of a two-story addition with roof deck
APPLICATION RECEIVED: May 26, 2023
60-DAY REVIEW: July 25, 2024
CASE MANAGER: Jessica Anderson
REQUEST:

The applicant requests a Certificate of Appropriateness for approval to:

1. Replace siding in kind.
2. Install one-over-one aluminum-clad wood windows where wood windows have been removed.
3. Replace the existing front doors, transom, and side lites with a new storefront system.

The applicant requests conceptual approval of a two-story rear addition with roof deck.

APPLICABLE CITATIONS:

Historic Design Guidelines, Chapter 2, Exterior Maintenance and Alterations

1. Materials: Woodwork

A. MAINTENANCE (PRESERVATION)

- Inspections*—Conduct semi-annual inspections of all exterior wood elements to verify condition and determine maintenance needs.
- Cleaning*—Clean exterior surfaces annually with mild household cleaners and water. Avoid using high pressure power washing and any abrasive cleaning or striping methods that can damage the historic wood siding and detailing.
- Paint preparation*—Remove peeling, flaking, or failing paint surfaces from historic woodwork using the gentlest means possible to protect the integrity of the historic wood surface. Acceptable methods for paint removal include scraping and sanding, thermal removal, and when necessary, mild chemical strippers. Sand blasting and water blasting should never be used to remove paint from any surface. Sand only to the next sound level of paint, not all the way to the wood, and address any moisture and deterioration issues before repainting.
- Repainting*—Paint once the surface is clean and dry using a paint type that will adhere to the surface properly. See *General Paint Type Recommendations* in Preservation Brief #10 listed under Additional Resources for more information.
- Repair*—Repair deteriorated areas or refasten loose elements with an exterior wood filler, epoxy, or glue.

B. ALTERATIONS (REHABILITATION, RESTORATION, AND RECONSTRUCTION)

- Facade materials*—Avoid removing materials that are in good condition or that can be repaired in place. Consider exposing original wood siding if it is currently covered with vinyl or aluminum siding, stucco, or other materials that have not achieved historic significance.
- Materials*—Use in-kind materials when possible or materials similar in size, scale, and character when exterior woodwork is beyond repair. Ensure replacement siding is installed to match the original pattern, including exposures. Do not introduce modern materials that can accelerate and hide deterioration of historic materials. Hardiboard and other cementitious materials are not recommended.
- Replacement elements*—Replace wood elements in-kind as a replacement for existing wood siding, matching in profile, dimensions, material, and finish, when beyond repair.

6. Architectural Features: Doors, Windows, and Screens

A. MAINTENANCE (PRESERVATION)

- i. *Openings*—Preserve existing window and door openings. Avoid enlarging or diminishing to fit stock sizes or air conditioning units. Avoid filling in historic door or window openings. Avoid creating new primary entrances or window openings on the primary façade or where visible from the public right-of-way.
 - ii. *Doors*—Preserve historic doors including hardware, fanlights, sidelights, pilasters, and entablatures.
 - iii. *Windows*—Preserve historic windows. When glass is broken, the color and clarity of replacement glass should match the original historic glass.
 - iv. *Screens and shutters*—Preserve historic window screens and shutters.
 - v. *Storm windows*—Install full-view storm windows on the interior of windows for improved energy efficiency. Storm window may be installed on the exterior so long as the visual impact is minimal and original architectural details are not obscured.
- B. ALTERATIONS (REHABILITATION, RESTORATION, AND RECONSTRUCTION)**
- i. *Doors*—Replace doors, hardware, fanlight, sidelights, pilasters, and entablatures in-kind when possible and when deteriorated beyond repair. When in-kind replacement is not feasible, ensure features match the size, material, and profile of the historic element.
 - ii. *New entrances*—Ensure that new entrances, when necessary to comply with other regulations, are compatible in size, scale, shape, proportion, material, and massing with historic entrances.
 - iii. *Glazed area*—Avoid installing interior floors or suspended ceilings that block the glazed area of historic windows.
 - iv. *Window design*—Install new windows to match the historic or existing windows in terms of size, type, configuration, material, form, appearance, and detail when original windows are deteriorated beyond repair.
 - v. *Muntins*—Use the exterior muntin pattern, profile, and size appropriate for the historic building when replacement windows are necessary. Do not use internal muntins sandwiched between layers of glass.
 - vi. *Replacement glass*—Use clear glass when replacement glass is necessary. Do not use tinted glass, reflective glass, opaque glass, and other non-traditional glass types unless it was used historically. When established by the architectural style of the building, patterned, leaded, or colored glass can be used.
 - vii. *Non-historic windows*—Replace non-historic incompatible windows with windows that are typical of the architectural style of the building.
 - viii. *Security bars*—Install security bars only on the interior of windows and doors.
 - ix. *Screens*—Utilize wood screen window frames matching in profile, size, and design of those historically found when the existing screens are deteriorated beyond repair. Ensure that the tint of replacement screens closely matches the original screens or those used historically.
 - x. *Shutters*—Incorporate shutters only where they existed historically and where appropriate to the architectural style of the house. Shutters should match the height and width of the opening and be mounted to be operational or appear to be operational. Do not mount shutters directly onto any historic wall material.

Historic Design Guidelines, Chapter 3, Guidelines for Additions

1. Massing and Form of Residential Additions

A. GENERAL

- i. *Minimize visual impact*—Site residential additions at the side or rear of the building whenever possible to minimize views of the addition from the public right-of-way. An addition to the front of a building would be inappropriate.
- ii. *Historic context*—Design new residential additions to be in keeping with the existing, historic context of the block. For example, a large, two-story addition on a block comprised of single-story homes would not be appropriate.
- iii. *Similar roof form*—Utilize a similar roof pitch, form, overhang, and orientation as the historic structure for additions.
- iv. *Transitions between old and new*—Utilize a setback or recessed area and a small change in detailing at the seam of the historic structure and new addition to provide a clear visual distinction between old and new building forms.

B. SCALE, MASSING, AND FORM

- i. *Subordinate to principal facade*—Design residential additions, including porches and balconies, to be subordinate to the principal façade of the original structure in terms of their scale and mass.
- ii. *Rooftop additions*—Limit rooftop additions to rear facades to preserve the historic scale and form of the building from the street level and minimize visibility from the public right-of-way. Full-floor second story additions that obscure the form of the original structure are not appropriate.

- iii. *Dormers*—Ensure dormers are compatible in size, scale, proportion, placement, and detail with the style of the house. Locate dormers only on non-primary facades (those not facing the public right-of-way) if not historically found within the district.
- iv. *Footprint*—The building footprint should respond to the size of the lot. An appropriate yard to building ratio should be maintained for consistency within historic districts. Residential additions should not be so large as to double the existing building footprint, regardless of lot size.
- v. *Height*—Generally, the height of new additions should be consistent with the height of the existing structure. The maximum height of new additions should be determined by examining the line-of-sight or visibility from the street. Addition height should never be so contrasting as to overwhelm or distract from the existing structure.

3. Materials and Textures

A. COMPLEMENTARY MATERIALS

- i. *Complementary materials*—Use materials that match in type, color, and texture and include an offset or reveal to distinguish the addition from the historic structure whenever possible. Any new materials introduced to the site as a result of an addition must be compatible with the architectural style and materials of the original structure.
- ii. *Metal roofs*—Construct new metal roofs in a similar fashion as historic metal roofs. Refer to the Guidelines for Alterations and Maintenance section for additional specifications regarding metal roofs.
- iii. *Other roofing materials*—Match original roofs in terms of form and materials. For example, when adding on to a building with a clay tile roof, the addition should have a roof that is clay tile, synthetic clay tile, or a material that appears similar in color and dimension to the existing clay tile.

B. INAPPROPRIATE MATERIALS

- i. *Imitation or synthetic materials*—Do not use imitation or synthetic materials, such as vinyl siding, brick or simulated stone veneer, plastic, or other materials not compatible with the architectural style and materials of the original structure.

C. REUSE OF HISTORIC MATERIALS

- ii. *Salvage*—Salvage and reuse historic materials, where possible, that will be covered or removed as a result of an addition.

4. Architectural Details

A. GENERAL

- i. *Historic context*—Design additions to reflect their time while respecting the historic context. Consider character-defining features and details of the original structure in the design of additions. These architectural details include roof form, porches, porticos, cornices, lintels, arches, quoins, chimneys, projecting bays, and the shapes of window and door openings.
- ii. *Architectural details*—Incorporate architectural details that are in keeping with the architectural style of the original structure. Details should be simple in design and compliment the character of the original structure. Architectural details that are more ornate or elaborate than those found on the original structure should not be used to avoid drawing undue attention to the addition.
- iii. *Contemporary interpretations*—Consider integrating contemporary interpretations of traditional designs and details for additions. Use of contemporary window moldings and door surroundings, for example, can provide visual interest while helping to convey the fact that the addition is new.

Standard Specifications for Original Wood Window Replacement

- **SCOPE OF REPAIR:** When individual elements such as sills, muntins, rails, sashes, or glazing has deteriorated, every effort should be made to repair or reconstruct that individual element prior to consideration of wholesale replacement. For instance, applicant should replace individual sashes within the window system in lieu of full replacement with a new window unit.
- **MISSING OR PREVIOUSLY-REPLACED WINDOWS:** Where original windows are found to be missing or previously-replaced with a nonconforming window product by a previous owner, an alternative material to wood may be considered when the proposed replacement product is more consistent with the Historic Design Guidelines in terms of overall appearance. Such determination shall be made on a case-by-case basis by OHP and/or the HDRC. Whole window systems should match the size of historic windows on property unless otherwise approved.
- **MATERIAL:** If full window replacement is approved, the new windows must feature primed and painted wood exterior finish. Clad, composition, or non-wood options are not allowed unless explicitly approved by the commission.

- SASH: Meeting rails must be no taller than 1.25". Stiles must be no wider than 2.25". Top and bottom sashes must be equal in size unless otherwise approved.
- DEPTH: There should be a minimum of 2" in depth between the front face of the window trim and the front face of the top window sash. This must be accomplished by recessing the window sufficiently within the opening or with the installation of additional window trim to add thickness.
- TRIM: Original trim details and sills should be retained or repaired in kind. If approved, new window trim must feature traditional dimensions and architecturally appropriate casing and sloped sill detail. Window track components such as jamb liners must be painted to match the window trim or concealed by a wood window screen set within the opening.
- GLAZING: Replacement windows should feature clear glass. Low-e or reflective coatings are not recommended for replacements. The glazing should not feature faux divided lights with an interior grille. If approved to match a historic window configuration, the window should feature real exterior muntins.
- COLOR: Replacement windows should feature a painted finished. If a clad product is approved, white or metallic manufacturer's color is not allowed, and color selection must be presented to staff.
- INSTALLATION: Replacement windows should be supplied in a block frame and exclude nailing fins. Window opening sizes should not be altered to accommodate stock sizes prior to approval.
- FINAL APPROVAL: If the proposed window does not meet the aforementioned stipulations, then the applicant must submit updated window specifications to staff for review, prior to purchase and installation. For more assistance, the applicant may request the window supplier to coordinate with staff directly for verification.

Standard Specifications for Windows in Additions and New Construction

- GENERAL: New windows on additions should relate to the windows of the primary historic structure in terms of materiality and overall appearance. Windows used in new construction should be similar in appearance to those commonly found within the district in terms of size, profile, and configuration. While no material is expressly prohibited by the Historic Design Guidelines, a high-quality wood or aluminum-clad wood window product often meets the Guidelines with the stipulations listed below. Whole window systems should match the size of historic windows on property unless otherwise approved.
- SIZE: Windows should feature traditional dimensions and proportions as found within the district.
- SASH: Meeting rails must be no taller than 1.25". Stiles must be no wider than 2.25". Top and bottom sashes must be equal in size unless otherwise approved.
- DEPTH: There should be a minimum of 2" in depth between the front face of the window trim and the front face of the top window sash.
 - This must be accomplished by recessing the window sufficiently within the opening or with the installation of additional window trim to add thickness.
- TRIM: Window trim must feature traditional dimensions and architecturally appropriate casing and sloped sill detail. Window track components such as jamb liners must be painted to match the window trim or concealed by a wood window screen set within the opening.
- GLAZING: Windows should feature clear glass. Low-e or reflective coatings are not recommended for replacements. The glazing should not feature faux divided lights with an interior grille. If approved to match a historic window configuration, the window should feature real exterior muntins.
- COLOR: Wood windows should feature a painted finished. If a clad product is approved, white or metallic manufacturer's color is not allowed, and color selection must be presented to staff.
- INSTALLATION: Wood windows should be supplied in a block frame and exclude nailing fins. Window opening sizes should not be altered to accommodate stock sizes prior to approval.
- FINAL APPROVAL: If the proposed window does not meet the aforementioned stipulations, then the applicant must submit updated window specifications to staff for review, prior to purchase and installation. For more assistance, the applicant may request the window supplier to coordinate with staff directly for verification.

FINDINGS:

- a. The property at 820 N Alamo is a two-story Colonial Revival-style residence built in 1911 as La Casa Boarding House. The property first appears on Sanborn Fire Insurance maps in 1912 in the same footprint as it appears today. It faces northwest on a block bound to the northwest by N Alamo St, the southwest by 8th St, the southeast by Union St, and the northeast by 9th St. It has a two-story central porch supported by double-height columns and flanked by one-story covered porches with smaller columns with less ornate capitals. Prior to their removal, windows were one-over-one; the house is clad in wood waterfall siding. The flat roof has corniced

eaves with dentils below the second-story form. The main entrance has double doors flanked by side lites and topped with a three-lite transom. The property is an individual landmark.

- b. **SIDING REPLACEMENT:** The applicant requests approval to replace the existing wood waterfall siding in kind. Historic Design Guidelines for Exterior Maintenance and Alterations 1.B.i says to avoid removing materials that are in good condition or that can be repaired in place. The previous owner replaced wood waterfall siding in its entirety and without OHP or HDRC review or approval. The current owner seeks to bring this violation into compliance. Staff finds the in-kind replacement of wood waterfall siding appropriate.
- c. **WINDOW REPLACEMENT:** The applicant requests approval to install one-over-one aluminum-clad wood windows where wood windows have been removed. Standard Specifications for Window Replacement states that where original windows are found to be missing or previously-replaced with a nonconforming window product by a previous owner, an alternative material to wood may be considered when the proposed replacement product is more consistent with the Historic Design Guidelines in terms of overall appearance. The previous owner removed the majority of the existing one-over-one wood windows, leaving only a few sashes behind; the work was done without OHP or HDRC review or approval. The current owner seeks to bring this violation into compliance. The aluminum-clad wood window product proposed by the applicant conforms to standard specifications, and staff finds them appropriate.
- d. **DOOR REPLACEMENT:** The applicant requests approval to replace the existing front doors, transom, and side lites with a new storefront system. Historic Design Guidelines for Exterior Maintenance and Alterations 6.A.ii says to preserve historic doors including hardware, fanlights, sidelights, pilasters, and entablatures. The applicant provided a photo showing front doors that do not appear to be of historic age and are eligible for replacement with more appropriate wood doors. Staff finds replacement of the front doors with a conforming product appropriate, but that the request to replace the full front door system with a new storefront system does not conform to guidelines.
- e. **CONCEPTUAL APPROVAL (ADDITION):** The applicant requests conceptual approval of a two-story rear addition with roof deck. Renderings show full-height brick columns extending from the ground to the roof deck, with the bulk of the footprint featuring open-air spaces enclosed only on the east side of the addition with brick and metal cladding. Enclosed spaces are for service and storage use. While staff finds a rear addition generally appropriate, the footprint and massing exceed what conforms to guidelines, as outlined in the next findings.
- f. **FOOTPRINT (ADDITION):** The applicant proposes an addition with a footprint of approximately 1,800 square feet. The existing house footprint is 1,649 square feet, plus a front porch that exceeds 200 square feet, and the proposed addition would bring total square footage to 3,649. Historic Design Guidelines for Additions 1.B.iv states that residential additions should not be so large as to double the existing building footprint. The proposed addition doubles the existing footprint. Staff finds the proposed addition does not conform to guidelines.
- g. **MASSING (ADDITION):** The applicant proposes a two-story addition with roof deck. Historic Design Guidelines for Additions 1.B.i says residential additions should be designed to be subordinate to the principal façade of the original structure in terms of their scale and mass. The height of the proposed addition is subordinate to that of the existing house, and the addition in plan is setback 4' at the east and west sides to differentiate it from the primary mass. Staff finds the massing of the transition between the existing house and the proposed addition appropriate.
- h. **MATERIALS (ADDITIONS):** The applicant proposes predominately brick, metal railings, and metal siding for the rear addition. Historic Design Guidelines for Additions 3.A.i says to use materials that match in type, color, and texture and include an offset or reveal to distinguish the addition from the historic structure whenever possible. Any new materials introduced to the site as a result of an addition must be compatible with the architectural style and materials of the original structure. Staff finds the brick and metal railings generally appropriate, but that the applicant should explore other cladding options that the proposed metal siding.

RECOMMENDATION:

Approval of items 1 and 2 based on findings a through c.

Staff recommends approval of item 3 based on finding d, with the following stipulations:

- i. That the applicant proposes a conforming wood product to replace the existing non-historic front doors.
- ii. That the existing door opening, transom, and side lites be retained and repaired.









Staff recommends conceptual approval of the two-story addition with roof deck based on findings e through h, with the following stipulations:

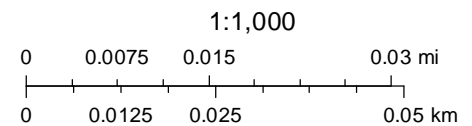
- i. That the applicant reduces the overall footprint of the proposed addition so that it does not double the size of the existing footprint.
- j. That the applicant proposes an alternative to the metal cladding.

City of San Antonio One Stop



June 16, 2023

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|-------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------|--------------------------|
|  | CoSA Addresses |  | Recorded Plats |
|  | Community Service Centers |  | Preliminary Plats |
|  | Pre-K Sites |  | COSA City Limit Boundary |
|  | CoSA Parcels | | |
|  | BCAD Parcels | | |

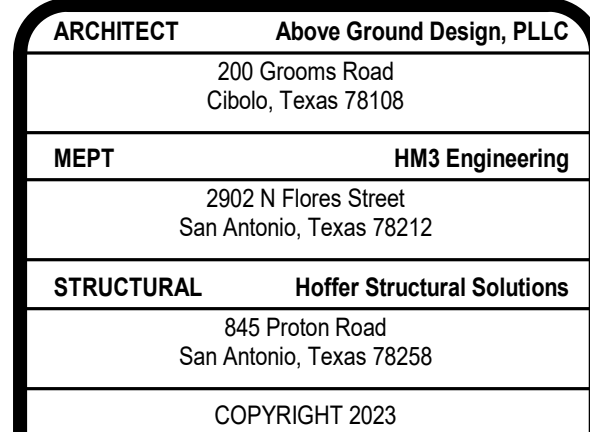








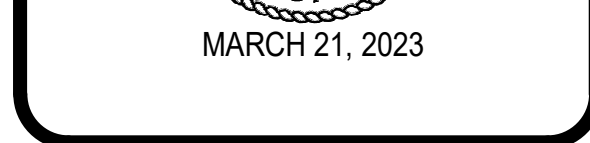




BAR HOUSE, LLC
NEW BAR HOUSE

609 NORTH ALAMO STREET
SAN ANTONIO TEXAS 78215

ISSUE FOR PERMIT

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ISSUE FOR PERMIT

**EXTERIOR
ELEVATIONS**

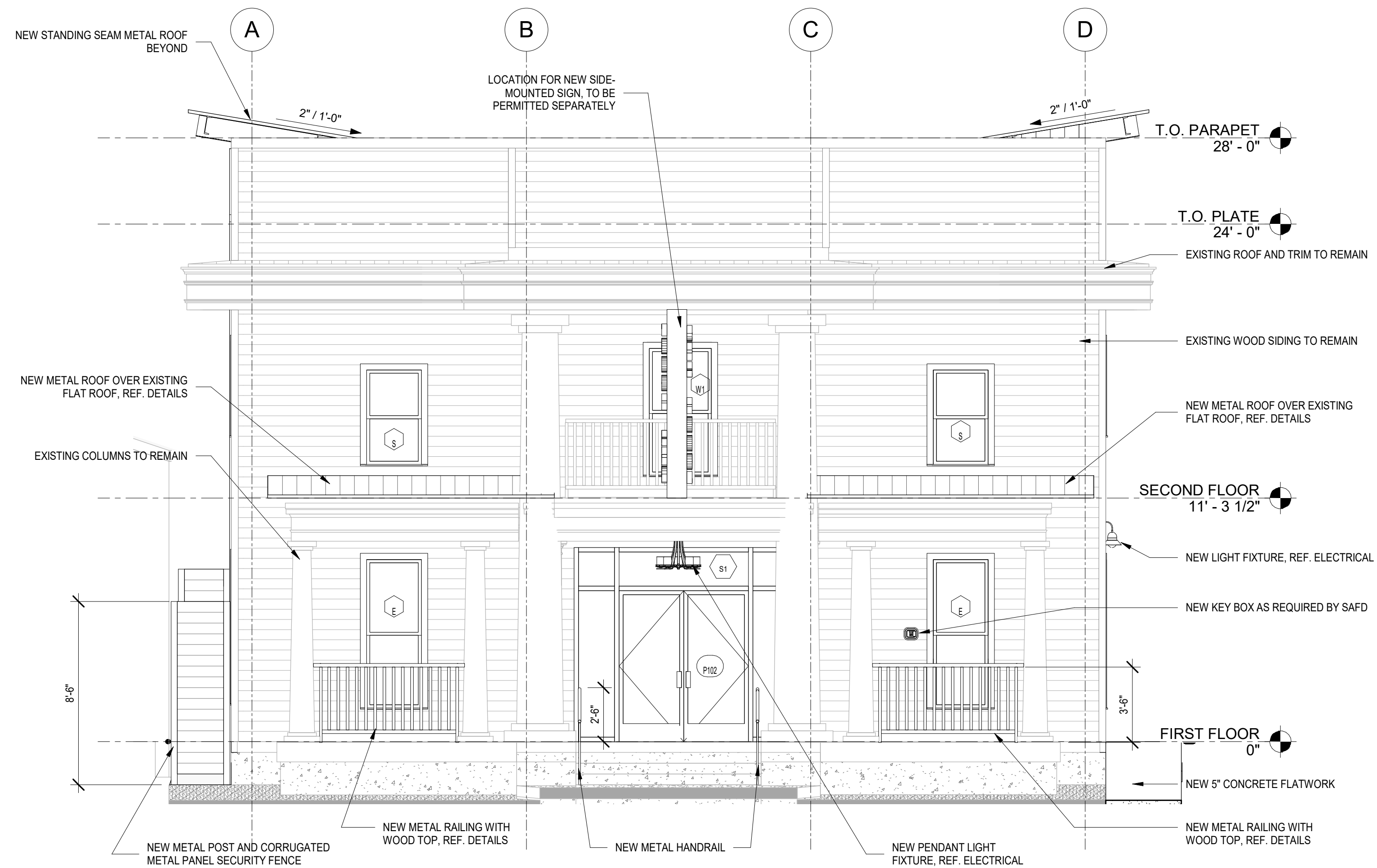
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Architectural section drawing of a building facade, showing a cross-section through the structure. The drawing includes labels for various components:

- STANDING SEAM METAL ROOF
- STEEL BEAM PAINTED, REF. STRUCTURAL PRE-FINISHED METAL PANEL
- NEW LIGHT FIXTURE, REF. ELECTRICAL
- NEW METAL RAILING WITH WOOD TOP, REF. DETAILS
- MODULAR BRICK
- CONCRETE ON METAL DECK, REF. STRUCTURAL
- STEEL PIPE POST AND CORRUGATED METAL FENCE PANEL
- METAL WALL PANEL
- STAINLESS STEEL COUNTERTOP
- INFILL WALL AT DEMOLITION TO MATCH ADJACENT
- EXISTING WALL BEYOND
- NEW METAL GUTTER, COLLECTOR AND DOWNSPOUT
- EXISTING WOOD SIDING BEYOND
- SECOND FLOOR
- FIRST FLOOR
- NEW METAL PAN CONCRETE FILLED STAIRS

Dimensions and other specifications:

- Roof pitch: 2' / 1'-0"
- Floor heights: 9'-0", 8'-6", 11' - 3 1/2"
- Window/door sizes: 4'-3", 4'-9", 2'-6"
- Labels: T.O. PARAPET 28' - 0", T.O. PLATE 24' - 0", EXISTING BUILDING AT PROPERTY LINE



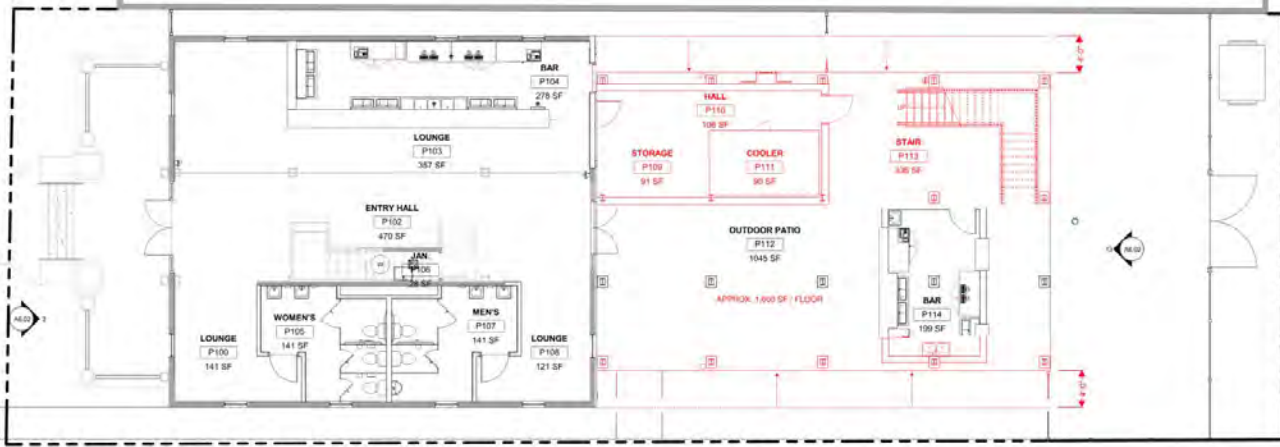
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$$\frac{1}{4}'' = 1'-0''$$

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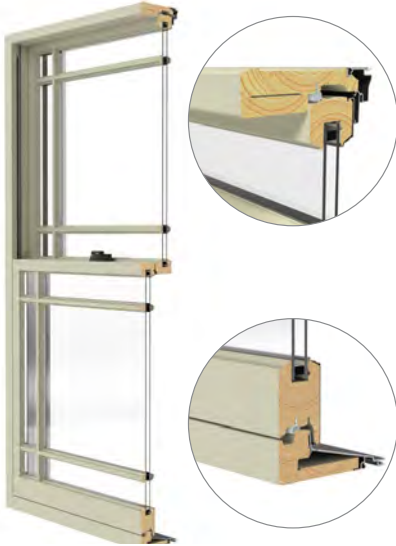
Pella® Architect Series®

Traditional Wood & Clad/Wood



Expertly crafted wood windows and patio doors with nearly endless possibilities.

Double-Hung Interior



Double-Hung Exterior



- Designed with distinguished details**
 Crafted with classic aesthetics to make a statement and add architectural interest to your project, inside and out.
- Enhanced style options and custom capabilities**
 Maximum design flexibility with dramatic sizes, custom colors, finishes, profiles, product types and more.
- Authentic look of true divided light**
 Pella's Integral Light Technology® grilles use a metal spacer to create the authentic look of true divided light by casting a more realistic shadow.
- Interior finish options**
 From light to dark, Architect Series – Traditional wood windows and patio doors are available in an array of classic and on-trend colors. Pine interiors are available in a variety of paint and stain colors.
- Beautiful hardware**
 Choose from Pella's collection of rich patinas and other timeless finishes.
- Optional integrated security sensors**
 Built-in security sensors allow homeowners to know when their windows and doors are open or locked, while being virtually invisible when the product is closed.
- ENERGY STAR® certified¹**
 Pella products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states. Pella Architect Series – Traditional products with triple-pane glass have been awarded the ENERGY STAR Most Efficient Mark in 2023.¹
- Long-lasting durability**
 Aluminum-clad exteriors with EnduraClad® finish is applied in an overlapping fashion on windows for exceptional protection. Pella's exclusive EnduraGuard® wood protection is applied after the pieces have been cut and milled, but prior to final assembly.
- Best limited lifetime warranty²**
 Pella Architect Series – Traditional products are covered by the best limited lifetime warranty in the industry for wood windows and patio doors.²
- Testing beyond requirements**
 At Pella, our products are tested beyond requirements to help ensure they have long-lasting performance and reduce call-backs for you.

Available in these window and patio door styles:



Special shape windows also available.

¹² See back cover for disclosures.

Product Specifications


Window & Patio Door Styles	Min. Width	Min. Height	Max.Width	Max. Height	Performance Class & Grade	Performance Values			Frame / Install
						U-Factor	SHGC	STC	
Awning	13-¾"	13-¾"	73"	73"	LC40-CW50	0.25-0.29	0.18-0.47	27-33	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Casement	13-¾"	13-¾"	41"	96"	CW30-CW50	0.25-0.29	0.18-0.47	28-33	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Fixed Casement/Fixed Awning	10"	10"	144"	144"	CW30-CW50	0.25-0.29	0.18-0.47	28-32	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Double-Hung	14"	24-¾"	54"	96"	CW40-CW50	0.25-0.30	0.19-0.53	26-34	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Double-Hung	13-¾"	23-¾"	48"	84"	CW40-CW50	0.25-0.31	0.19-0.53	26-30	Pocket Replacement
In-Swing Hinged Patio Door (Single)	18"	36"	48"	119-½"	LC40-LC55	0.20-0.40	0.14-0.40	—	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
In-Swing Hinged Patio Door (Double)	36"	36"	96"	119-½"	LC40-LC55	0.20-0.40	0.14-0.40	31-35	
Out-Swing Hinged Patio Door (Single)	18"	36"	48"	119-½"	R50-LC70	0.20-0.40	0.14-0.39	30-36	
Out-Swing Hinged Patio Door (Double)	36"	36"	96"	119-½"	R50-LC70	0.20-0.40	0.14-0.39	30-36	
Sliding Patio Door (O)	30-¾"	74"	60-7⁄8"	119-½"	LC25-LC70	0.25-0.40	0.15-0.42	—	
Sliding Patio Door (OX, XO)	59-¼"	74"	119-¼"	119-½"	LC25-LC70	0.25-0.40	0.15-0.42	31-35	
Sliding Patio Door (OXO)	90"	74"	180"	119-½"	LC25-LC70	0.25-0.40	0.15-0.42	—	
Sliding Patio Door (OXXO)	116-⅙"	74"	236-⅙"	119-½"	LC25-LC70	0.25-0.40	0.15-0.42	—	
Multi-Slide Patio Door	40-⅜"	50-½"	701-⅝"	119-½"	R15-LC25³	0.30 – 0.36	0.15 – 0.46	—	For more info visit PellaADM.com
Bifold Patio Door	32-⅙"	41"	425-7⁄8"	119-½"	R15-R25³	0.26-0.44	0.13-0.45	—	

Window sizes available in 1/8" increments
Special sizes available. For more information regarding performance, visit [pella.com/performance](#). For more information regarding frame and installation types, visit [PellaADM.com](#).


Window Hardware

Classic Collection

Get a timeless look with authentic styles in classic finishes.

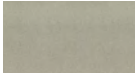


Fold-away Crank
Antiek

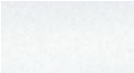


Spoon-Style Lock


Finishes:



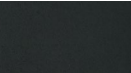
Champagne



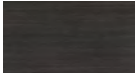
White




Brown



Matte Black




Oil-Rubbed Bronze




Satin Nickel

Rustic Collection

Create a distinct and charming look with distressed finishes.

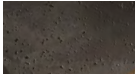


Fold-away Crank
Antiek




Spoon-Style Lock

Finishes:




Distressed Bronze




Distressed Nickel

Essential Collection

Select from popular designs and finishes to suit every style.

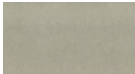


Fold-away Crank

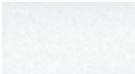


Cam-Action Lock


Finishes:



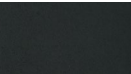
Champagne




White




Brown



Matte Black



Oil-Rubbed Bronze




Satin Nickel

³ See back cover for disclosures.


Patio Door Hardware

Classic Collection


Choose timeless pieces, created in collaboration with Baldwin® Hardware, for a look that will never go out of style.



Hinged & Bifold Patio Door Handle
Virago




Sliding & Multi-Slide Patio Door Handle
Ambrose




Multi-Slide Patio Door Handle^{4,5}


Finishes:



Matte Black




Oil-Rubbed Bronze




Satin Nickel

Rustic Collection

Stand out with bold looks and create an utterly unique aesthetic.




Hinged & Bifold Patio Door Handle
Rustiek




Sliding & Multi-Slide Patio Door Handle
Notus

Finishes:




Distressed Bronze




Distressed Nickel

Essential Collection


Elevate your style and transform a home with elegant selections.



Hinged & Bifold Patio Door Handle

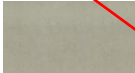


Sliding Patio Door Handle

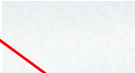


Multi-Slide Patio Door Handle^{4,5}


Finishes:




Champagne




White




Brown



Matte Black



Oil-Rubbed Bronze

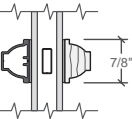


Satin Nickel

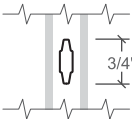
Additional hardware collections available. Visit [PellaADM.com](#) for more information.

Grilles

Choose the look of true divided light or make cleaning easier by selecting grilles-between-the-glass.



Ogee Integral Light Technology⁶
7/8", 1-1/4" or 2"




Aluminum Grilles-Between-the-Glass⁷
3/4"

^{4,5,6,7}See back cover for disclosures.

Colors

Wood Types

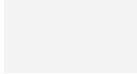
Wood species for complementing your project's interior.

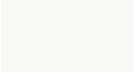


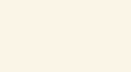
Pine


Prefinished Pine Interior Colors


Custom interior finishes, unfinished or primed and ready-to-paint are also available.



White



Bright White

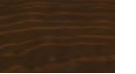

Linen White

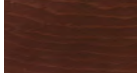

Natural Stain



Golden Oak Stain

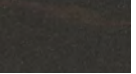

Early American Stain



Provincial Stain


Dark Mahogany Stain


Red Mahogany Stain


Espresso Stain


Charcoal Stain


Black Stain

Aluminum-Clad Exterior Colors

Our low-maintenance EnduraClad® exterior finish resists fading. Take durability one step further with EnduraClad Plus which also resists chalking and corrosion.⁸


Custom colors are also available.


Black


White


Brown


Fossil


Iron Ore


Portobello


Putty


Almond


Classic White



Brick Red


Hartford Green

Added Peace of Mind

Integrated Security Sensors

Integrated wireless security sensors maintain aesthetics, streamline security installation and ensure no warranty loss is caused by post-installation drilling. Sensors can be monitored via the free Pella® Insynctive® App and are compatible with major security panel systems.⁹ For more information, go to connectpella.com.



The Best Limited Lifetime Warranty in the Industry

We know your reputation matters and you stake your reputation on quality, dependable products. That's why we have the best limited lifetime warranty in the industry for wood windows and patio doors.²

¹ Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.

² Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty.

³ Performance ratings vary based on product configuration.

⁴ Flush multi-slide handle is a Pella exclusive design.

⁵ Flush multi-slide handle is not available in Champagne.

⁶ Color-matched to your product's interior and exterior color.

⁷ Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

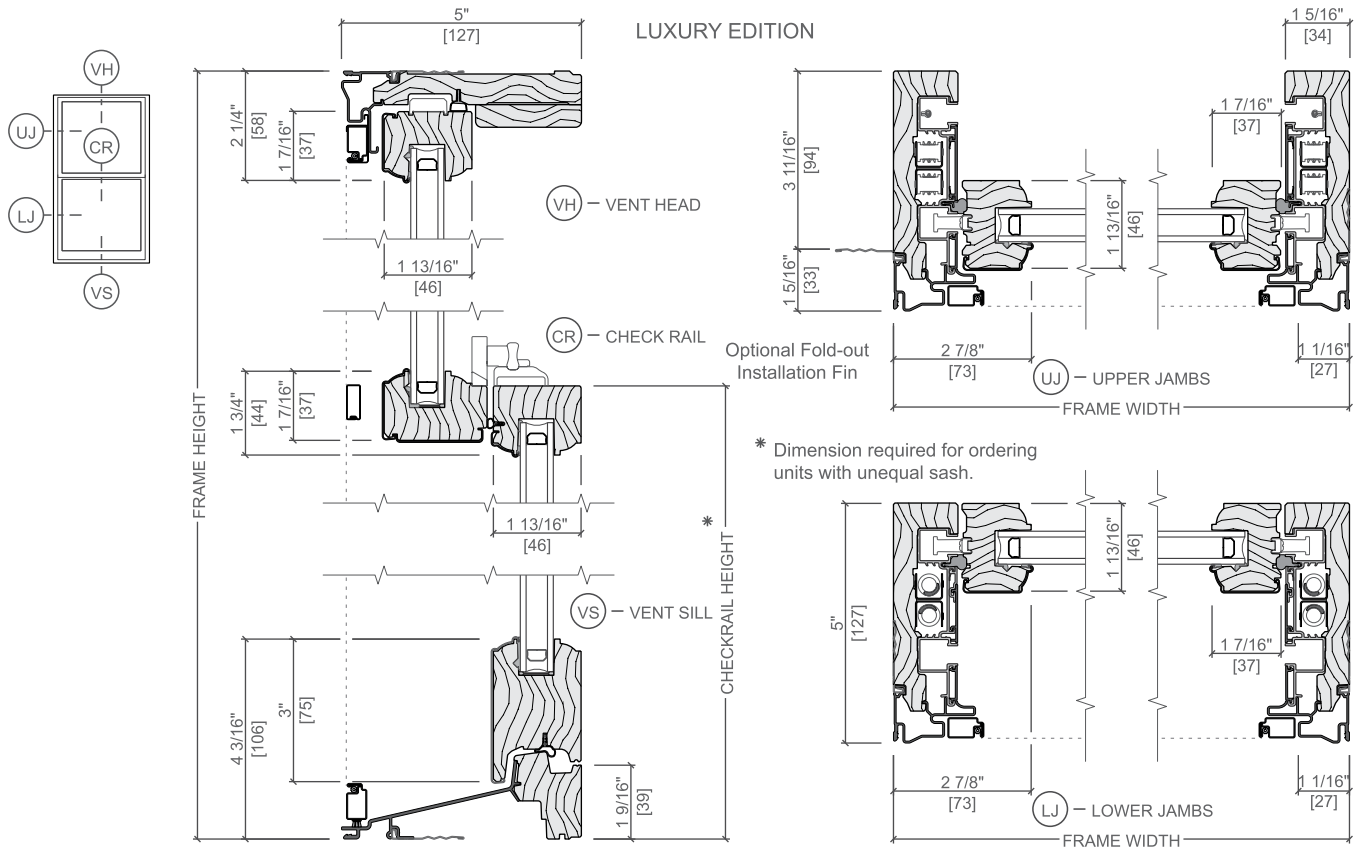
⁸ EnduraClad Plus protective finish is not available with all colors. See your local Pella sales representative for availability.

⁹ Requires the Insynctive App on a smart device, an Insynctive Bridge and a wireless home router with internet connection.



Architect Series® Traditional Hung Window

LX Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



Scale 3" = 1' 0"

All dimensions are approximate.

Ultimate Wood Commercial Door

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Unit Features

Ultimate Wood Commercial Door: UWCD

Ultimate Wood Commercial Door 2 1/4": UWCD 2.25inch

Frame:

- Frame thickness: 1 1/16" (27).
- Frame width: 4 9/16" (116).
- Sill Options:
 - Standard factory installed thermal barrier saddle low profile 0.500" (13) by 7.125" (181) sill. Optional; thermal barrier saddle low profile 0.250" (6) by 7.125" (181) sill. Offset saddle low profile 0.500" (13) by 7.00" (178) sill with 0.250" (6) offset.
 - Optional factory installed thermal barrier saddle low profile 0.500" (13) by 8.125" (210) sill. Optional; thermal barrier saddle low profile 0.250" (6) by 8.125" (210) sill.
 - Optional factory installed thermal barrier saddle low profile 0.500" (13) by 9.125" (235) sill. Optional; thermal barrier saddle low profile 0.250" (6) by 9.125" (235) sill.
 - Optional: No sill.
 - Finishes: Standard: Mill Finish Aluminum, Optional: Dark Bronze Anodized Aluminum.

Panel:

- Panel thickness: WCD 1 3/4" (44) and WMCD 2 1/4" (57).
- Top rail height:
 - WCD panel: 6" (152).
 - WMCD panel: 8 1/8" (206).
 - Panel core material is solid Pine, or follows the species of the door.
- Stile width, locking and hinge stiles are 6" (153) wide with LVL core.
- Bottom rail height: 11 3/8" (289) is solid pine or follows the species of the door.
- Optional 6" (152) intermediate rail is solid pine or follows the species of the door, is centered 26" (660) or 40 5/16" (1024) from bottom of door sill.

Glass and Glazing:

- Select quality complying with ASM C 1036. Comply with 16 CFR 1201 Safety Standard for Architectural Glazing Materials. Tempered insulating glass IGMA.IGCC certified to performance level CBA when tested in accordance with ASTM E 774.
- Glazing Seal: Tempered insulating glass hermetically sealed placed into an exterior bed of silicone. Uses a beveled wood stop.
- WCD has 3/4" IG with removable interior vinyl glazing stops with non finger-jointed wood covers, no visible fasteners.
- WMCD Commercial Door has 1" IG with nailed on glazing stops.
- Glazing Method: Tempered Insulating Glass (Altitude Adjusted).
- Glass Type: Clear; Bronze; Gray; Reflective Bronze; Low E2 Argon or without Argon; Low E3 Argon or without Argon; Low E2/ERS Argon or air; Low E3/ERS Argon or air; Obscure; Laminated and Decorative glass options.
- ADL glazing option not available with Argon.

Hardware

- Hinges: 4 1/2" (114) x 4 1/2" (114) square corner ball bearing hinges. Standard finish color and substrate: Satin Chrome (US26D) over brass substrate.
 - Optional: Bronze finish over Brass substrate (US10A), Solid Brass (US3), Stainless Steel (US32D).
- UWCD panel: Three hinges per panel up to 85 9/16" (2173) high, four hinges per panel on doors over 85 9/16" (2173) rough opening.
- UWCD 2.25 panel: Three hinges per panel up to 85 9/16" (2173) and 95" (2413) high, 5 hinges per panel on units over 95" (2413) high.
- No lock no bore is standard.
 - Optional Commercial Hardware Package:
 - Closer, rim device, mortise lock, removable mullion and kick plate.
 - Optional hardware Routs and Preps.
 - Von Duprin Push pad Rim Devices and Trim Sets.
 - Von Duprin Cross Bar Device and Trim Sets.
 - Von Duprin 5547 Concealed Vertical Rod Exit Device (2 1/4" Door only)
 - Sargent 8200 Mortise Lock Prep.
 - Schlage L Mortise Lock and Trim Sets.
 - Schlage ND Cylindrical locks.
 - Alarm Lock.

Unit Features

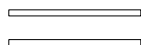
Raised/Flat Panel Option:

- 6" (152) Intermediate rail is constructed of finger joint, edge-glued pine, or laminated veneer lumber (LVL) core with non finger-jointed, bare veneers to the interior and exterior.
 - Raised or flat Extrira[®] panel constructed of medium density fiberboard (MDF) core with wood laminate veneer to interior and exterior.
- Two standard placement options are available:
 - Low Placement, 26"(660) on center (OC) of 6"(152) intermediate rail from bottom of door sill for a 10 13/16"(275) visible panel height.
 - High Placement, 40 5/16"(1024) OC of 6"(152) intermediate rail from bottom of door sill for a 25 1/8"(638) visible panel height.
 - for Mahogany, raised/flat panel cannot exceed 17 3/8" (441).

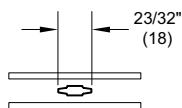
Weather Strip:

- Beige bulb type weather strip at top rails and hinge stiles.
 - Optional: Black.
- Black pile type weather strip at locking stiles.
- Panel Drips will default to the sill finish or color. Beige drips will default for clear anodize aluminum or beige sills. Bronze drips will default for bronze sills.
- Sweep across panel bottom.
 - Optional: Bronze or Beige.

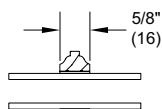
Standard Divided Lite Option



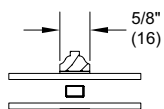
Insulating Glass



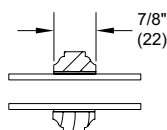
Aluminum 23/32"
Contour GBG



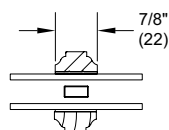
5/8" SDL



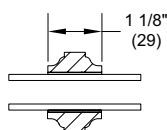
5/8" SDL
W/Spacer



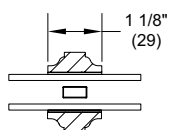
7/8" SDL



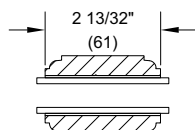
7/8" SDL
W/Spacer Bar



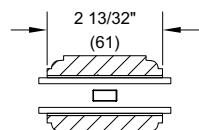
1 1/8" SDL



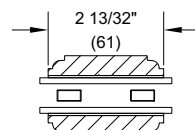
1 1/8" SDL
W/Spacer Bar



2 13/32" SDL

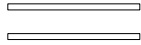


2 13/32" SDL
W/One Spacer Bar

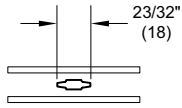


2 13/32" SDL
W/Two Spacer Bar

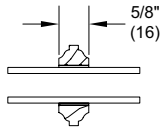
Optional Interior Square Simulated Divided Lite



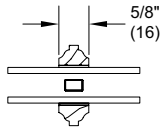
Insulating Glass



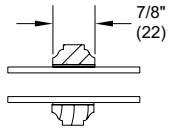
Aluminum 23/32"
Contour GBG



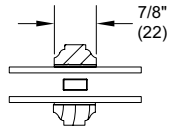
5/8" SDL



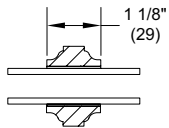
5/8" SDL
W/Spacer



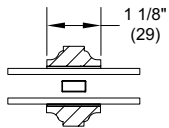
7/8" SDL



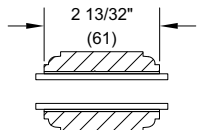
7/8" SDL
W/Spacer Bar



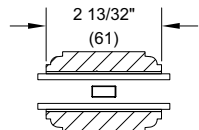
1 1/8" SDL



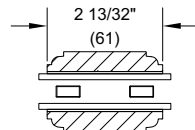
1 1/8" SDL
W/Spacer Bar



2 13/32" SDL



2 13/32" SDL
W/One Spacer Bar



2 13/32" SDL
W/Two Spacer Bar

Standard Unit Measurements: 1 3/4" and 2 1/4" Doors

Ultimate Commercial Door Unit Measurements													
Width													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft-in	mm
Sidelite	1-6	1-11 1/4	(591)	1-9 1/8	(537)	1-8 1/8	(511)	1-5 3/4	(451)	1-1 1/4	(337)	1-2 9/16	(370)
1 Panel	3-0	3-5 9/32	(1049)	3-3 5/32	(995)	3-2 5/32	(969)	2-11 13/16	(910)	1-11 27/32	(606)	2-1 5/32	(639)
	3-6	3-11 9/32	(1201)	3-9 5/32	(1147)	3-8 5/32	(1122)	3-5 13/16	(1062)	2-5 27/32	(758)	2-7 5/32	(791)
2 Panel	6-0	6-5 19/64	(1963)	6-3 11/64	(1909)	6-2 11/64	(1884)	2-11 13/16	(910)	1-11 27/32	(606)	2-1 5/32	(639)
	7-0	7-5 19/64	(2268)	7-3 11/64	(2214)	7-2 11/64	(2189)	3-5 13/16	(1062)	2-5 27/32	(758)	2-7 5/32	(791)
Height													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft - in	mm
All Configurations	7-0	7-2 5/8	(2200)	7-1 9/16	(2173)	7-1 1/16	(2161)	6-11	(2108)	5-5 5/8	(1667)	5-6 15/16	(1700)
	8-0	8-2 5/8	(2505)	8-1 9/16	(2478)	8-1 1/16	(2465)	7-11	(2413)	6-5 5/8	(1972)	6-6 15/16	(2005)

Ultimate Commercial Door 2 1/4" Unit Measurements													
Width													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft-in	mm
Sidelite	1-6	1-11 1/4	(591)	1-9 1/8	(537)	1-8 1/8	(511)	1-5 3/4	(451)	0-11 25/32	(299)	1-1 3/32	(333)
1 Panel	3-0	3-5 9/32	(1049)	3-3 5/32	(995)	3-2 5/32	(969)	2-11 13/16	(910)	1-11 27/32	(606)	2-1 5/32	(639)
	3-6	3-11 9/32	(1201)	3-9 5/32	(1147)	3-8 5/32	(1122)	3-5 13/16	(1062)	2-5 27/32	(758)	2-7 5/32	(792)
	4-0	4-5 9/32	(1353)	4-3 5/32	(1299)	4-2 5/32	(1274)	3-11 13/16	(1215)	2-11 27/32	(911)	3-1 5/32	(944)
2 Panel	6-0	6-5 19/64	(1963)	6-3 11/64	(1909)	6-2 11/64	(1884)	2-11 13/16	(910)	1-11 27/32	(606)	2-1 5/32	(639)
	7-0	7-5 19/64	(2268)	7-3 11/64	(2214)	7-2 11/64	(2189)	3-5 13/16	(1062)	2-5 27/32	(758)	2-7 5/32	(791)
	8-0	8-5 19/64	(2573)	8-3 11/64	(2519)	8-2 11/64	(2494)	3-11 13/16	(1214)	2-11 27/32	(910)	3-1 5/32	(944)
Height													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft - in	mm
All Configurations	7-0	7-2 5/8	(2200)	7-1 9/16	(2173)	7-1 1/16	(2161)	6-11	(2108)	5-3 31/64	(1613)	5-4 51/64	(1646)
	8-0	8-2 5/8	(2505)	8-1 9/16	(2478)	8-1 1/16	(2465)	7-11	(2413)	6-3 31/64	(1917)	6-4 51/64	(1951)
	10-0	10-2 5/8	(3115)	10-1 9/16	(3088)	10-1 1/16	(3075)	9-11	(3023)	8-3 31/64	(2527)	8-4 51/64	(2560)

NOTE: Rough Opening and Masonry Opening height may vary according to sill type applied by others.

Standard Unit Measurements: Ultimate Direct Glaze and In-Sash Transoms

Ultimate Wood Commercial Direct Glaze											
Transom Width											
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Daylight Opening		Glass Size	
		ft-in	mm	ft-in	mm	ft-in	mm	ft-in	mm	in	mm
1 Lite Direct Glaze Transom Commercial Door	3-0	3-5 5/16	(1049)	3-3 3/16	(995)	3-2 3/16	(969)	2-10 1/4	(869)	35 19/32	(904)
	3-6	3-11 5/16	(1201)	3-9 3/16	(1147)	3-8 3/16	(1122)	3-4 1/4	(1022)	41 19/32	(1057)
	6-0	6-5 5/16	(1963)	6-3 3/16	(1909)	6-2 3/16	(1884)	5-10 1/4	(1784)	71 5/8	(1819)
	7-0	7-5 5/16	(2268)	7-3 3/16	(2214)	7-2 3/16	(2189)	6-10 1/4	(2089)	83 5/8	(2124)
Height											
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Daylight Opening		Glass Size	
		ft-in	mm	ft-in	mm	ft-in	mm	ft-in	mm	in	mm
All Configurations	1-0	1-2 1/4	(362)	1-0 1/2	(318)	1-0	(305)	0-8 1/16	(205)	9 7/16	(240)
	1-2	1-4 1/4	(413)	1-2 1/2	(368)	1-2	(356)	0-10 1/16	(256)	11 7/16	(291)
	1-6	1-8 1/4	(514)	1-6 1/2	(470)	1-6	(457)	1-2 1/16	(357)	15 7/16	(392)

Standard Measurements for Ultimate Direct Glaze and In-Sash Transoms for Commercial Units													
Width													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft-in	mm
1 Sash	3-0	3-5 9/32	(1049)	3-3 5/32	(995)	3-2 5/32	(969)	2-11 13/16	(910)	1-11 27/32	(606)	2-1 5/32	(639)
	3-6	3-11 9/32	(1201)	3-9 5/32	(1147)	3-8 5/32	(1122)	3-5 13/16	(1062)	2-5 27/32	(758)	2-7 5/32	(791)
	4-0	4-5 9/32	(1353)	4-3 5/32	(1299)	4-2 5/32	(1274)	3-11 13/16	(1215)	2-11 27/32	(911)	3-1 5/32	(944)
2 Sash	6-0	6-5 19/64	(1963)	6-3 11/64	(1909)	6-2 11/64	(1884)	2-11 13/16	(910)	1-11 27/32	(606)	2-1 5/32	(639)
	7-0	7-5 19/64	(2268)	7-3 11/64	(2214)	7-2 11/64	(2189)	3-5 13/16	(1062)	2-5 27/32	(758)	2-7 5/32	(791)
	8-0	8-5 19/64	(2573)	8-3 11/64	(2519)	8-2 11/64	(2494)	3-11 13/16	(1215)	2-11 27/32	(911)	3-1 5/32	(944)
Height													
Unit Type	Call Number	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Opening		Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	ft - in	mm
In-Sash Configurations	1-6	1-7 9/16	(497)	1-6 1/2	(470)	1-6	(457)	1-3 5/16	(389)	0-9 5/16	(237)	0-10 5/8	(270)
	2-0	2-1 9/16	(649)	2-0 1/2	(622)	2-0	(610)	1-9 5/16	(541)	1-3 5/16	(389)	1-4 5/8	(422)
	2-6	2-7 9/16	(802)	2-6 1/2	(775)	2-6	(762)	2-3 5/16	(694)	1-9 5/16	(541)	1-10 5/8	(575)

NOTE: 4-0 and 8-0 Sizes are only available with 2 1/4" Commercial Doors.

Minimum and Maximum Guidelines: Doors and In-Sash Transoms

Minimum and Maximum Guidelines for UWCD								
Unit Type	Min Frame Size Unit				Max Frame Size Unit			
	Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm
Sidelight	14 5/16	(364)	24 1/8	(613)	20 1/8	(511)	97 1/16	(2465)
1 - Panel Stationary	20 9/32	(515)	24 1/8	(613)	44 3/16	(1122)	97 1/16	(2465)
1 - Panel Operator	20 9/32	(515)	40 1/16	(1018)	44 3/16	(1122)	97 1/16	(2465)
2 - Panel Stationary	38 27/64	(976)	24 1/8	(613)	86 3/16	(2189)	97 1/16	(2465)
2 - Panel Operator	38 27/64	(976)	40 1/16	(1018)	86 3/16	(2189)	97 1/16	(2465)

Ultimate Wood Commercial Door Extended Sizes				
Unit Type	Min Frame Size Unit			
	Width		Height	
	in	mm	in	mm
Sidelight	53 15/32	(1358)	112 9/16	(2859)
1 - Panel Stationary	56 15/32	(1434)	112 9/16	(2859)
1 - Panel Operator	50 11/32	(1279)	112 9/16	(2859)
2 - Panel Stationary	104 51/64	(2662)	112 9/16	(2859)
2 - Panel Operator	98 35/64	(2503)	112 9/16	(2859)

NOTE: Maximum Square Footage 25 (635) Sq. Ft. of glass per Panel.

Minimum and Maximum Guidelines for UWCD 2.25inch								
Unit Type	Min Frame Size Unit				Max Frame Size Unit			
	Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm
Sidelight	14 5/16	(364)	26 17/64	(667)	20 1/8	(511)	121 1/16	(3075)
1 - Panel Stationary	20 9/32	(515)	26 17/64	(667)	50 3/16	(1275)	121 1/16	(3075)
1 - Panel Operator	20 9/32	(515)	40 1/16	(1018)	50 3/16	(1275)	121 1/16	(3075)
2 - Panel Stationary	38 27/64	(976)	26 17/64	(667)	98 3/16	(2494)	97 1/16	(2465)
2 - Panel Operator	38 27/64	(976)	40 1/16	(1018)	98 3/16	(2494)	121 1/16	(3075)

Ultimate Wood 2.25" Commercial Door Extended Sizes				
Unit Type	Min Frame Size Unit			
	Width		Height	
	in	mm	in	mm
Sidelight	57 11/32	(1457)	121 1/16	(3075)
1 - Panel Stationary	57 11/32	(1457)	121 1/16	(3075)
1 - Panel Operator	50 11/32	(1279)	121 1/16	(3075)
2 - Panel Stationary	112 35/64	(2859)	121 1/16	(3075)
2 - Panel Operator	98 35/64	(2503)	121 1/16	(3075)

NOTE: Maximum Square Footage 60.99 (1778) Sq. Ft. of glass per Panel.

Minimum and Maximum Guidelines for Transoms								
Unit Type	Min Frame Size Unit				Max Frame Size Unit			
	Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm
1 Frame 1 Sash	20 9/32	(515)	11 3/8	(289)	44 3/16	(1122)	30	(762)
1 Frame 2 Sash	38 27/64	(976)	11 3/8	(289)	86 3/16	(2189)	30	(762)

Transom Extended Sizes				
Unit Type	Min Frame Size Unit			
	Width		Height	
	in	mm	in	mm
1 Frame 1 Sash	98 11/64	(2494)	50 11/16	(1287)
1 Frame 2 Sash	191	(4851)	50 11/16	(1287)

Minimum and Maximum Guidelines: Ultimate Wood Direct Glaze Rectangles / Transoms

Minimum Guidelines - Ultimate Wood Direct Glaze Rectangles / Transoms				
Unit Type	Min Width		Min Height	
	in	mm	in	mm
Single Glaze	6 9/16	(167)	7 1/2	(191)
Insulating Glass	6 9/16	(167)	7 1/2	(191)

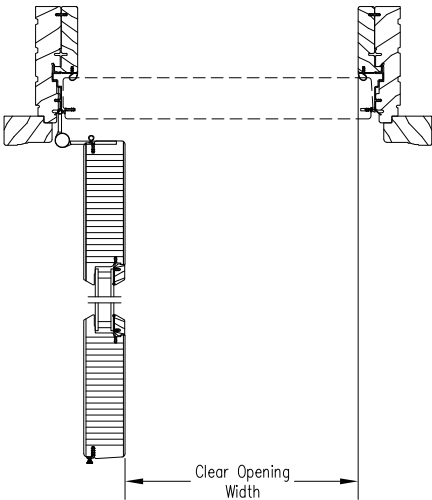
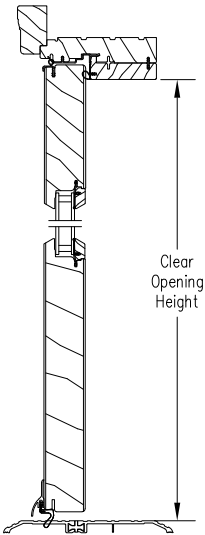
Maximum Guidelines - Ultimate Wood Direct Glaze Rectangles / Transoms				
Unit Type	Max Width		Max Height	
	in	mm	in	mm
Single Glaze	Certified Frame Size			
	84	(2134)	87	(2210)
	97 15/16	(2488)	74	(1880)
	87	(2210)	84	(2134)
	74	(1880)	97 15/16	(2488)
	Non-Certified Sizes			
	145 9/16	(3697)	53 7/8	(1368)
	90 1/2	(2299)	86 1/16	(2186)
	86 1/16	(2186)	90 1/2	(2299)
	53 7/8	(1368)	145 9/16	(3697)
Insulating Glass	Certified Size			
	84	(2134)	97 15/16	(2488)
	97 15/16	(2488)	84	(2134)
	Non-Certified Sizes			
	145 9/16	(3697)	63 15/16	(1624)
	107 3/4	(2737)	86 1/16	(2186)
	86 1/16	(2186)	107 3/4	(2737)
	63 15/16	(1624)	145 9/16	(3697)

Net Clear Openings

Scale: 1 1/2" = 1'

Net Clear Opening Ultimate Wood Commercial Door			
Width			
Unit Type	Call Number	Net Clear Openings	
		ft-in	mm
1 Panel	3-0	2-8 55/64	(835)
	3-6	3-2 55/64	(987)
2 Panel	6-0	5-7 5/64	(1704)
	7-0	6-7 5/64	(2008)
Height			
Unit Type	Call Number	Net Clear Openings	
		ft - in	mm
All Configurations	7-0	6-10 13/16	(2103)
	8-0	7-10 13/16	(2408)

Net Clear Opening Ultimate Wood Commercial Door 2 1/4"			
Width			
Unit Type	Call Number	Net Clear Openings	
		ft-in	mm
1 Panel	3-0	2-8 11/32	(822)
	3-6	3-2 11/32	(974)
	4-0	3-8 11/32	(1126)
2 Panel	6-0	5-6 3/64	(1678)
	7-0	6-6 3/64	(1983)
	8-0	7-6 3/64	(2287)
Height			
Unit Type	Call Number	Net Clear Openings	
		ft - in	mm
All Configurations	7-0	6-10 13/16	(2103)
	8-0	7-10 13/16	(2408)
	10-0	9-10 13/16	(3018)



Measurements Conversions

1 3/4" Door Unit Measurements		Width				Height	
From	To						
Rough Opening		in	mm			in	mm
OM of Frame	Rough Opening	+ 1	(25)			+ 1/2	(13)
Masonry Opening w/BMC	Rough Opening	-2 1/8	(54)			-1 1/16	(27)
Operating Panel		in	mm			in	mm
OM of Frame	OM of Sidelite	-2 3/8	(60)			-2 1/16	(52)
OM of Frame	OM of Panel (x1)	-2 11/32	(59)			-2 1/16	(52)
OM of Frame	OM of Panel (x2)	-2 35/64	(65)	÷	2	-2 1/16	(52)
Daylight Opening	Om of Sidelite	+ 5 31/32	(152)			+ 17 3/8	(441)
Daylight Opening	OM of Panel	+ 11 31/32	(304)			+ 17 3/8	(441)
Glass		in	mm			in	mm
Daylight Opening	Glass	+ 1 5/16	(33)			+ 1 5/16	(33)

2 1/4" Door Unit Measurements		Width				Height	
From	To						
Rough Opening		in	mm			in	mm
OM of Frame	Rough Opening	+ 1	(25)			+ 1/2	(13)
Masonry Opening	Rough Opening	+ 1/2	(13)			+ 1/4	(06)
Masonry Opening w/BMC	Rough Opening	-2 1/8	(54)			-1 1/16	(27)
Masonry Opening w/Flat Casing	Rough Opening	-5 1/2	(140)			-2 3/4	(70)
Operating Panel		in	mm			in	mm
OM of Frame	OM of Sidelite	-2 3/8	(60)			-2 1/16	(52)
OM of Frame	OM of Panel (x1)	-2 11/32	(59)			-2 1/16	(52)
OM of Frame	OM of Panel (x2)	-2 35/64	(65)	÷	2	-2 1/16	(52)
Daylight Opening	Om of Sidelite	+ 5 31/32	(152)			+ 19 1/2	(495)
Daylight Opening	OM of Panel	+ 11 31/32	(304)			+ 19 1/2	(495)
Glass		in	mm			in	mm
Daylight Opening	Glass	+ 1 5/16	(33)			+ 1 5/16	(33)

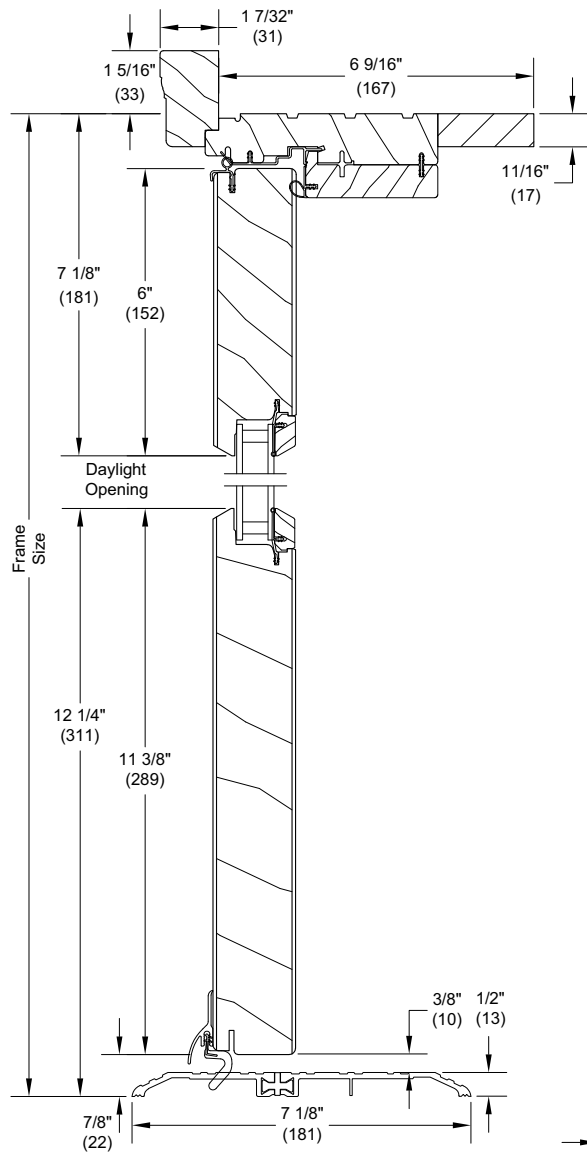
NOTE: The Ultimate Direct Glaze Door Transom Conversions are covered in the [Ultimate Wood Direct Glaze Polygon and Round Top Chapter](#)

Measurements Conversions

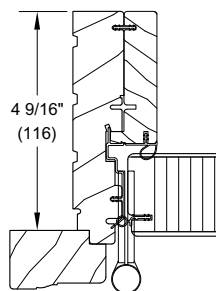
In-Sash Transom Unit Measurements		Width				Height	
From	To						
Rough Opening		in	mm			in	mm
OM of Frame	Rough Opening	+ 1	(25)			+ 1/2	(13)
Masonry Opening w/BMC	Rough Opening	-2 1/8	(54)			-1 1/16	(27)
Stationary Sash		in	mm			in	mm
OM of Frame	OM of Sash (x1)	-2 11/32	(59)			-2 11/16	(68)
OM of Frame	OM of Sash (x2)	-2 35/64	(65)			-2 11/16	(68)
Daylight Opening	OM of Panel	+ 11 31/32	(304)			+ 6	(152)
Glass		in	mm			in	mm
Daylight Opening	Glass	+ 1 5/16	(33)			+ 1 5/16	(33)

1 3/4" Commercial Section Details: Operating

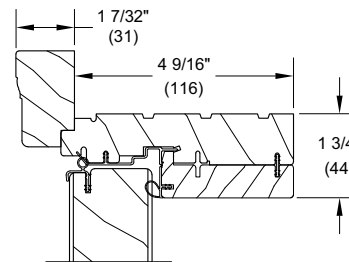
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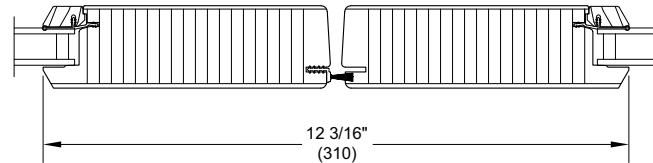
Head Jamb and Sill



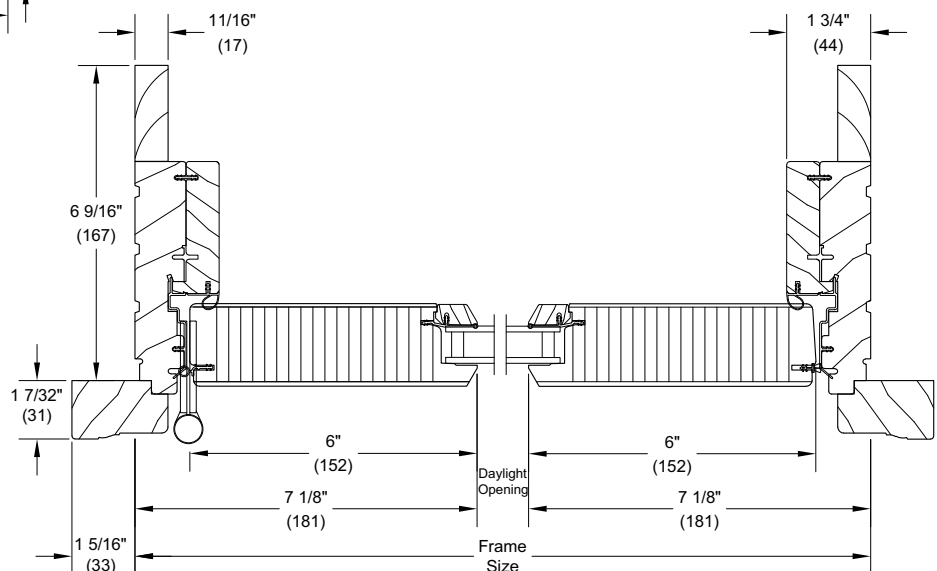
4 9/16" Jamb



4 9/16" Head Jamb



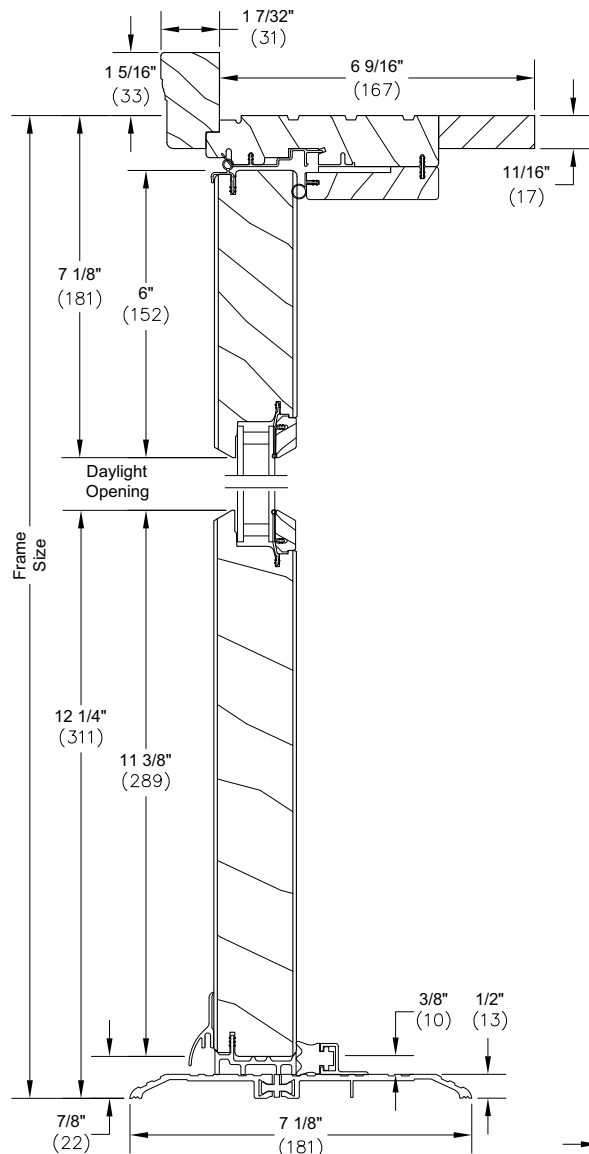
XX - Meeting Stiles



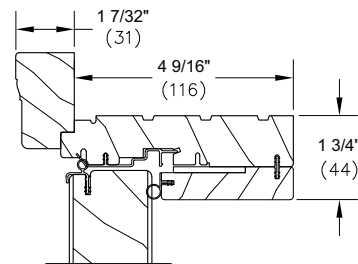
X - LHR - Jamb

1 3/4" Commercial Section Details: Stationary and Sidelite

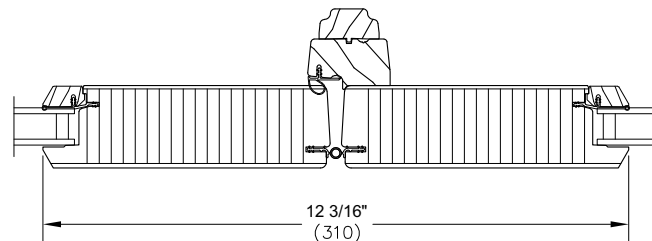
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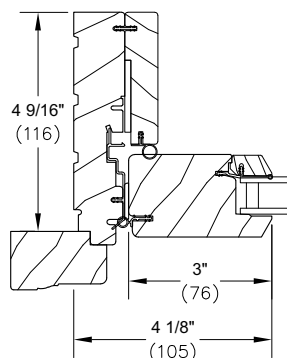
Head Jamb and Sill



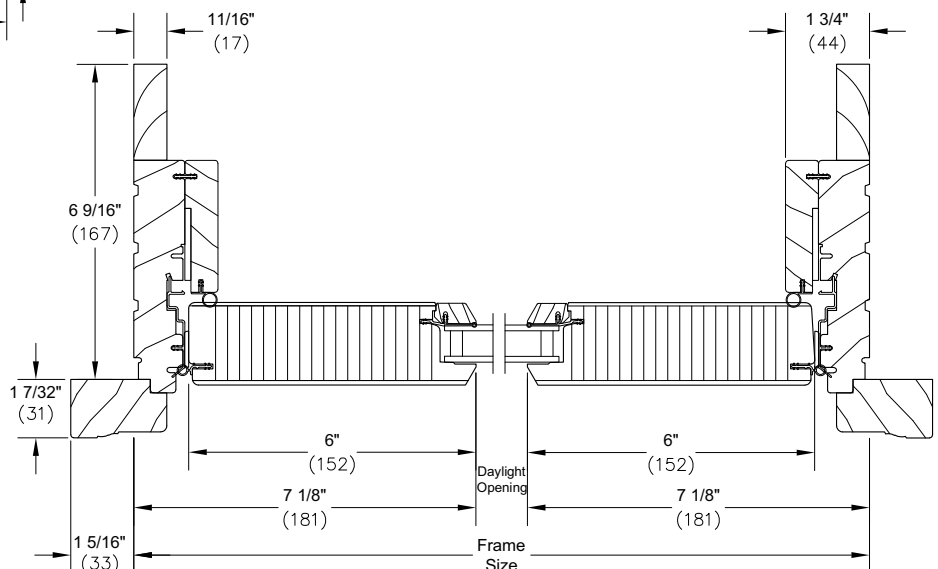
4 9/16" Head Jamb



OO - Meeting Stiles



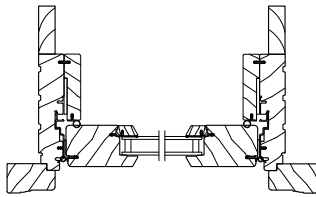
O Jamb
3" Stile



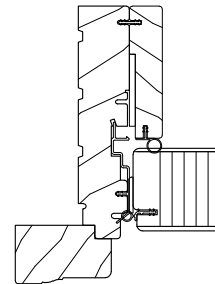
O - Jamb

1 3/4" Commercial Section Details: Panel Configurations

Scale: 1 1/2" = 1'

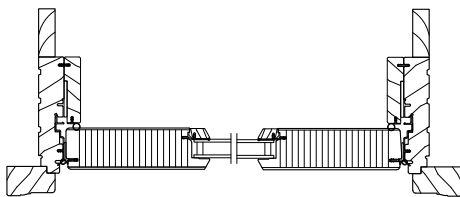


Sidelite Jamb

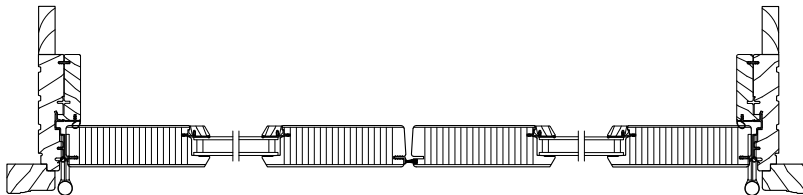


4 9/16" - Jamb

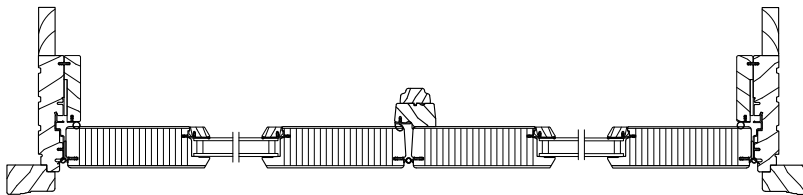
Scale: 3" = 1'-0"



O Jamb



XX - RHRA Jamb



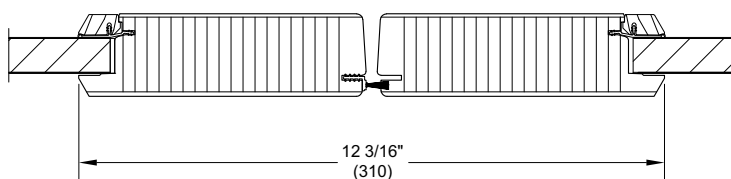
OO Jamb

Scale: 3" = 1' 0"

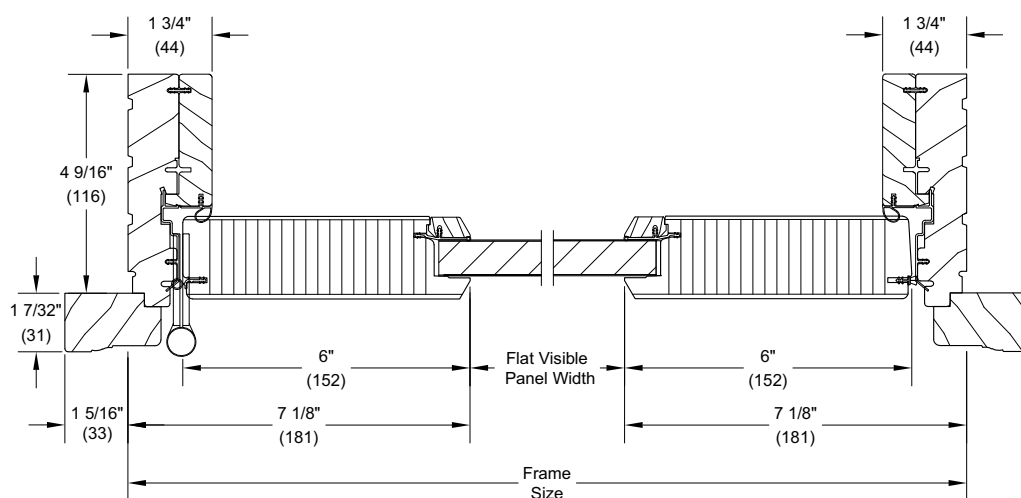


Flat Panel - Standard Configuration/ High Placement

6" intermediate rail placed 40 5/16" (1024) O.C. from bottom of the door sill with 25 1/8" (638) visible panel height.



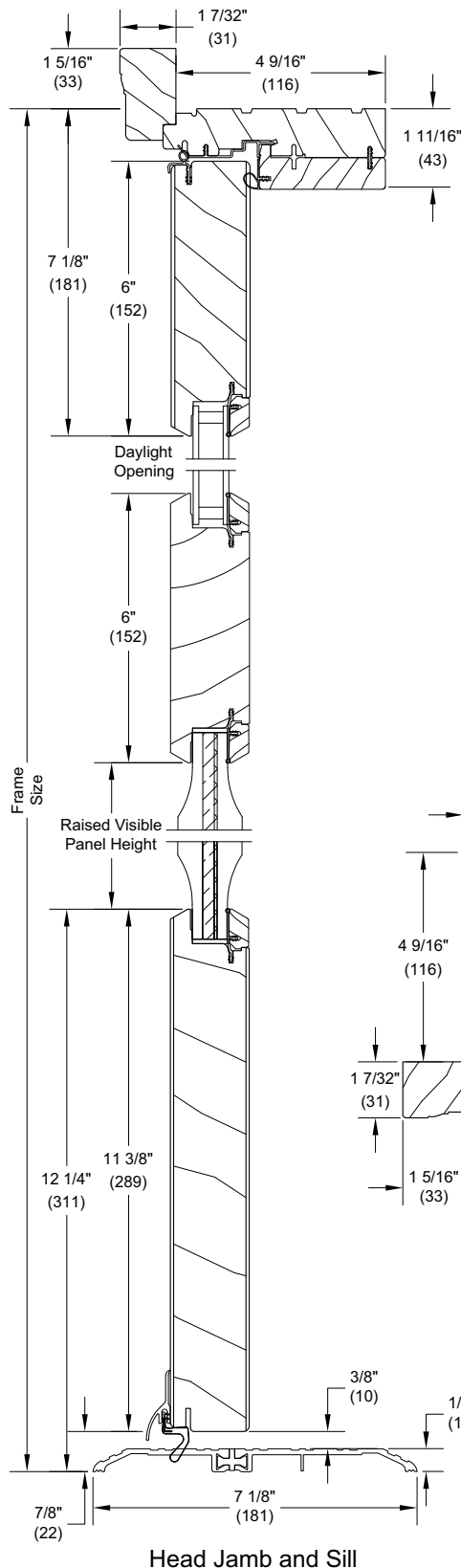
XX - Meeting Stiles



X - LHR - Jamb

1 3/4" Commercial Section Details: Raised Panel Placement

Scale: 3" = 1' 0"

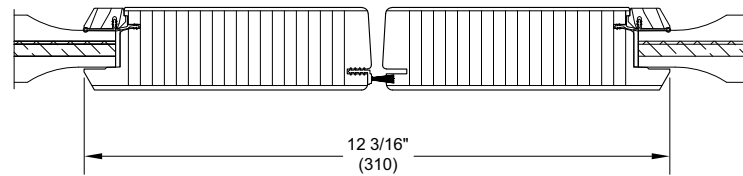


Raised Panel - Standard Configuration / Low Placement

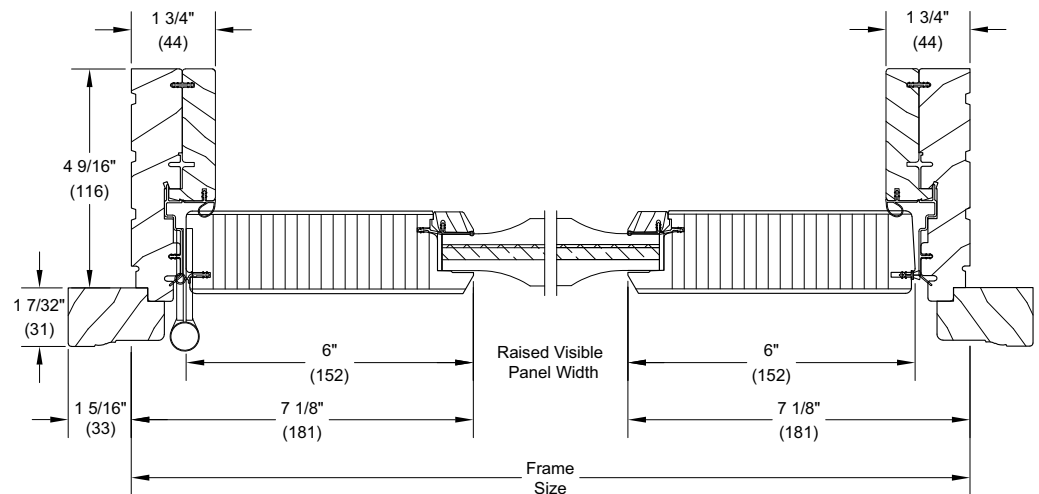
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

Raised Panel - Standard Configuration / High Placement

6" intermediate rail placed 40 5/16" (1024) O.C. from bottom of the door sill with 25 1/8" (638) visible panel height.



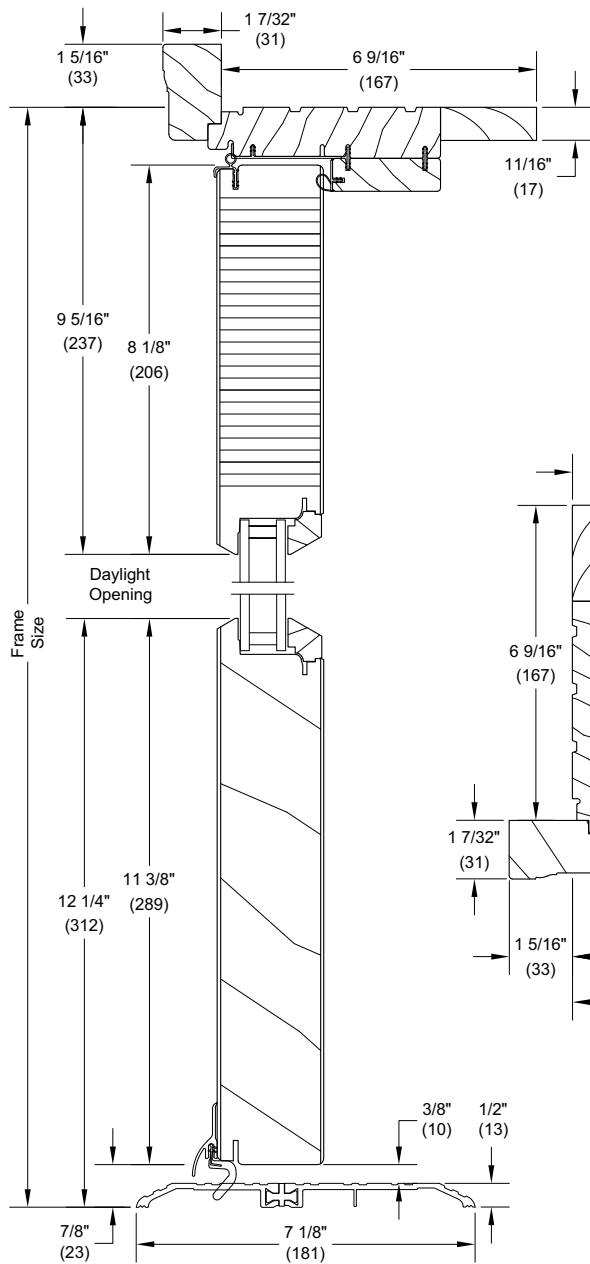
XX - Meeting Stiles



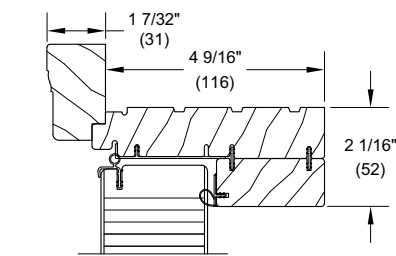
X - LHR - Jamb

2 1/4" Commercial Section Details: Operating

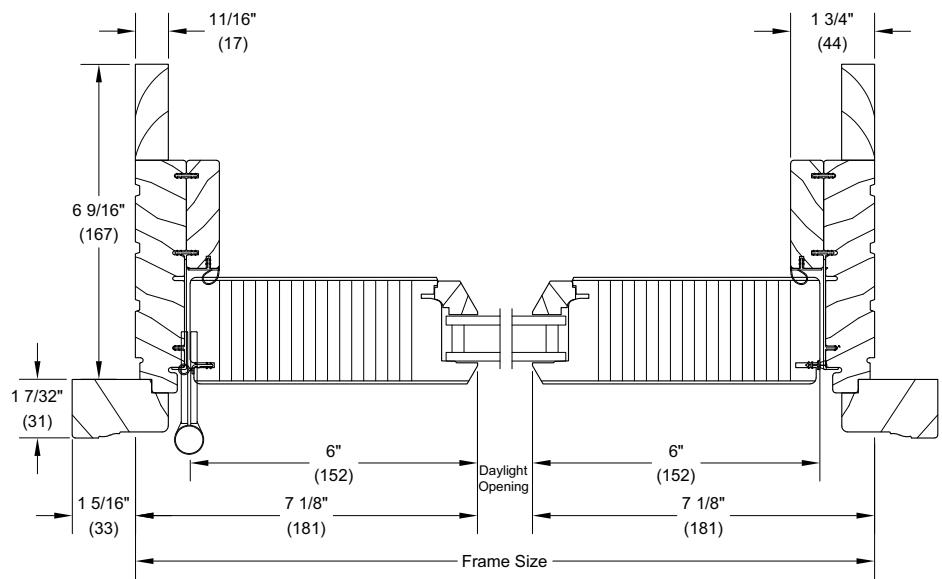
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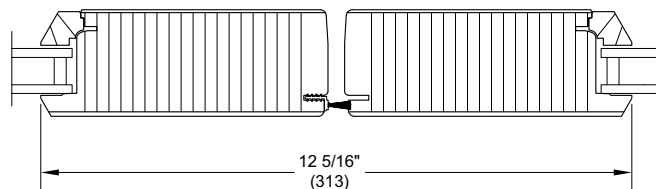
Head Jamb and Sill



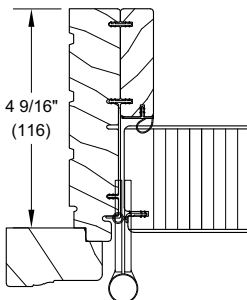
Head Jamb with
Von Duprin 5547 Hardware Prep



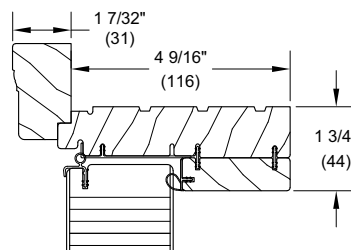
X - LHR - Jamb



XX - Meeting Stiles



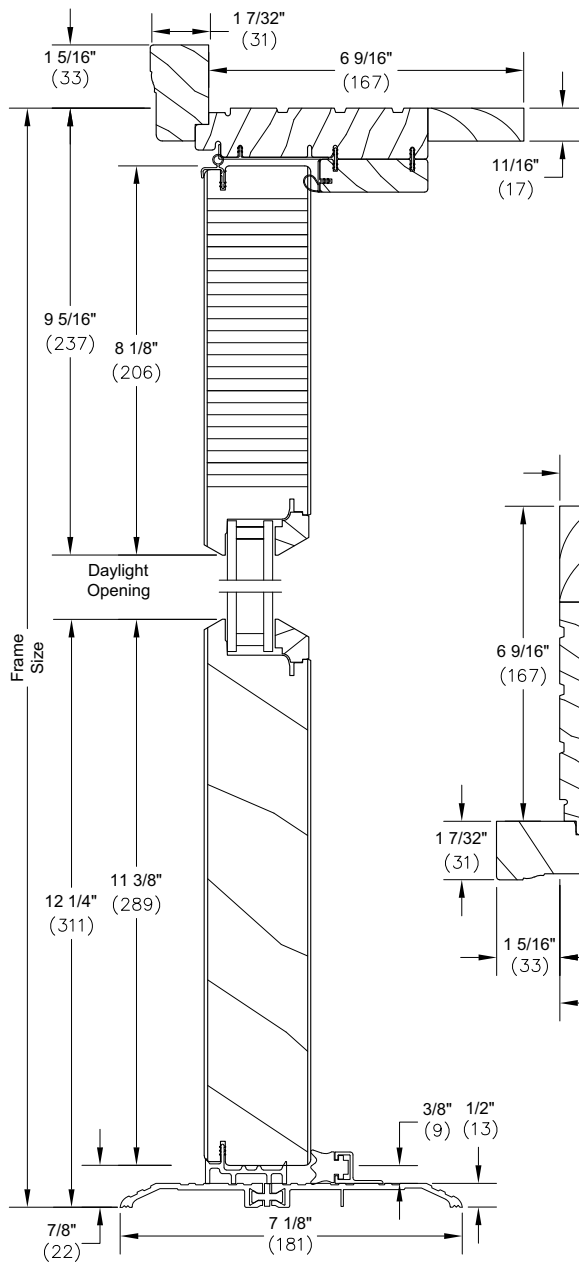
4 9/16" Jamb



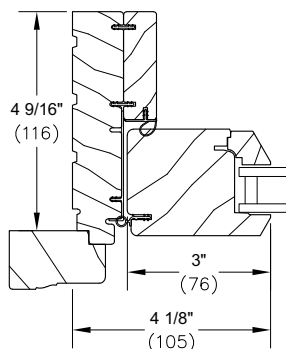
4 9/16" Head Jamb

2 1/4" Commercial Section Details: Stationary and Sidelite

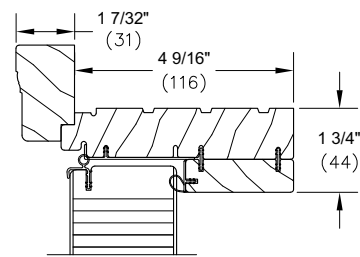
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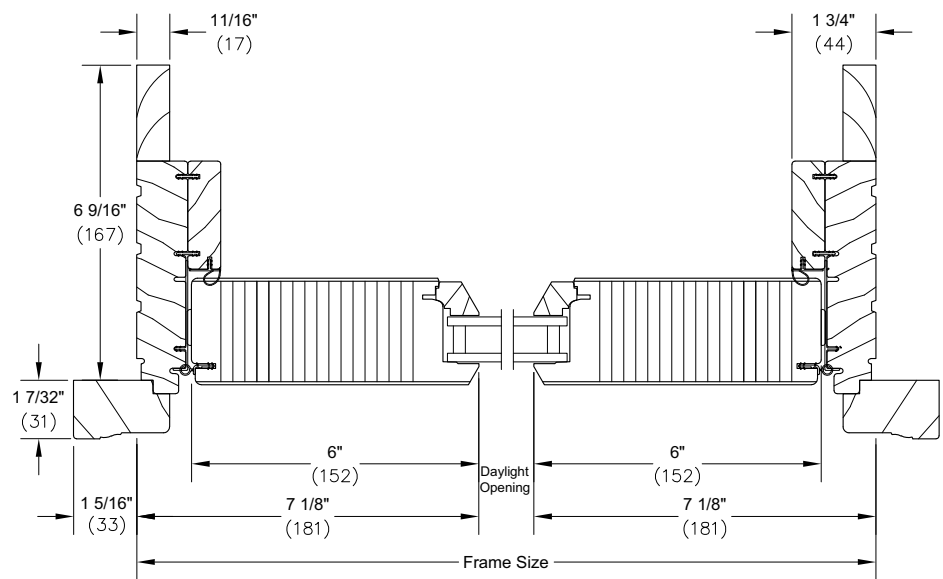
Head Jamb and Sill



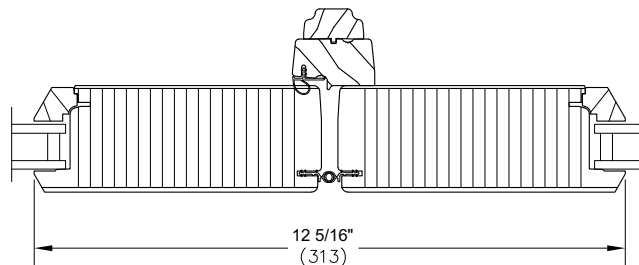
O Jamb 3" Stile



4 9/16" Head Jamb



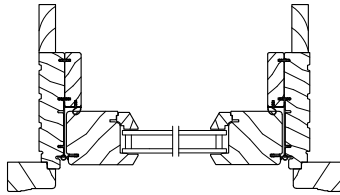
O - Jamb



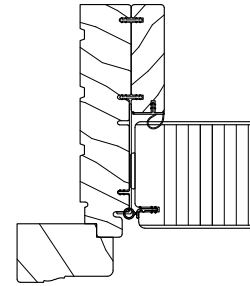
OO - Meeting Stiles

2 1/4" Commercial Section Details: Panel Configurations

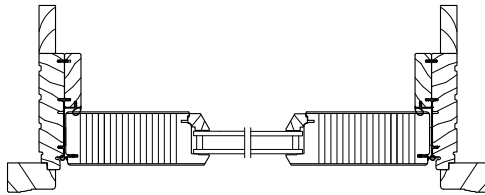
Scale: 1 1/2" = 1'



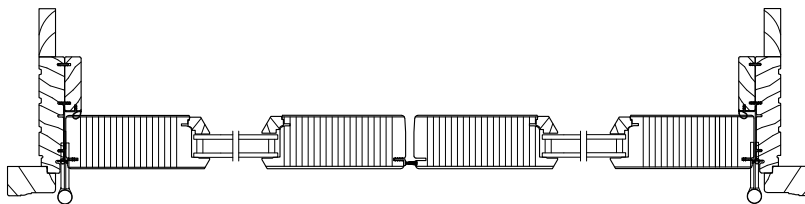
Sidelite Jamb



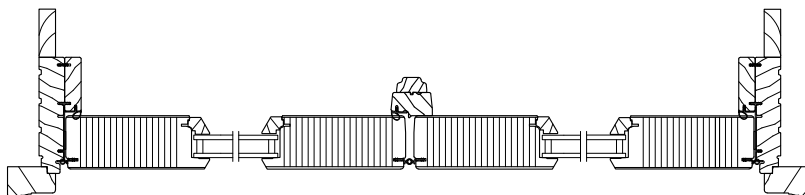
4 9/16" - Jamb
Scale: 3" = 1'-0"



O Jamb



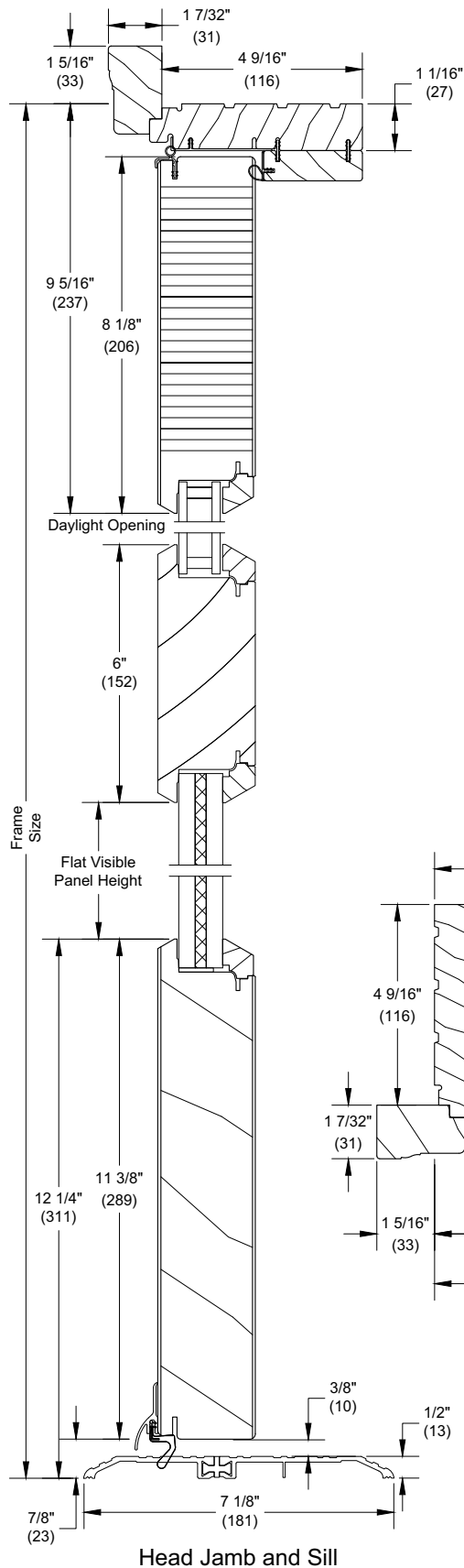
XX - RHRA Jamb



OO Jamb

2 1/4" Commercial Section Details: Flat Panel Placement

Scale: 3" = 1' 0"

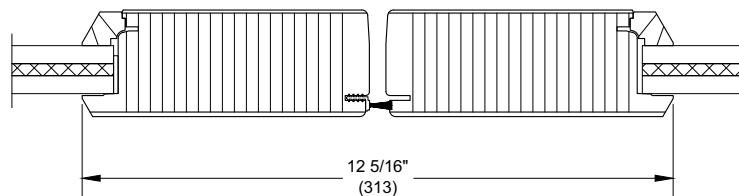


Flat Panel - Standard Configuration/ Low Placement

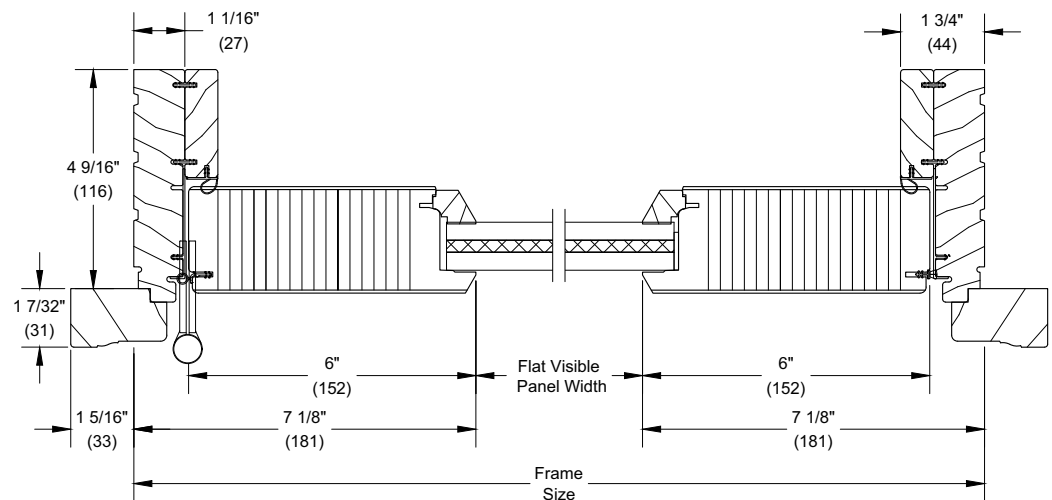
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

Flat Panel - Standard Configuration/ High Placement

6" intermediate rail placed 40 5/16" (1024) O.C. from bottom of the door sill with 25 1/8" (638) visible panel height.



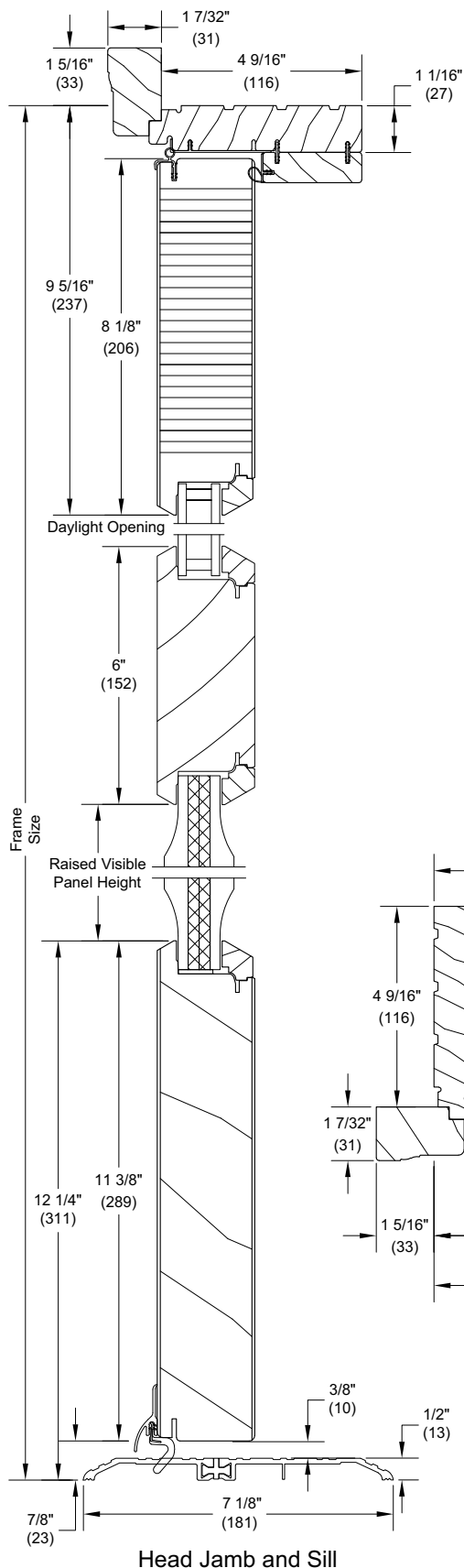
XX - Meeting Stiles



X - LHR - Jamb

2 1/4" Commercial Section Details: Raised Panel Placement

Scale: 3" = 1' 0"

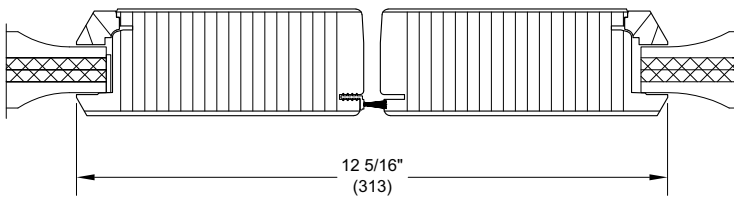


Raised Panel - Standard Configuration / Low Placement

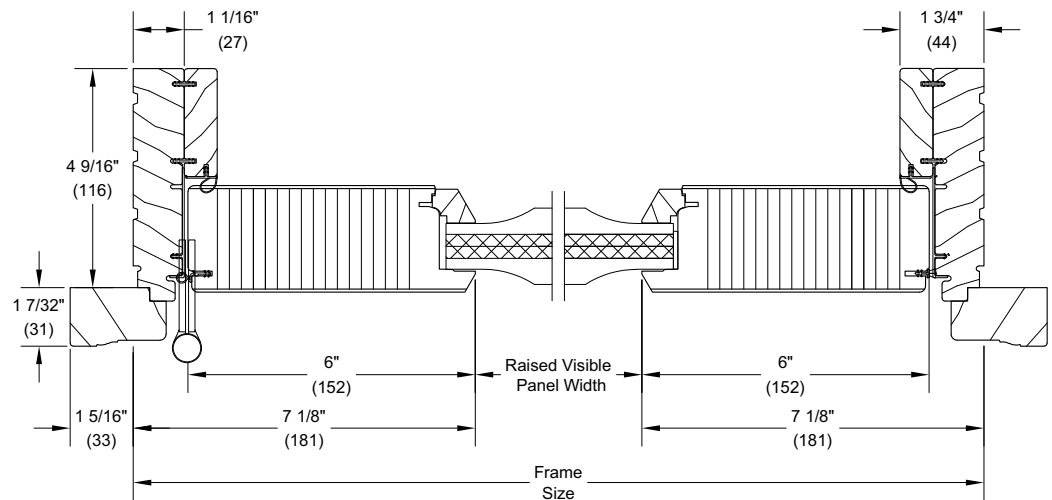
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

Raised Panel - Standard Configuration / High Placement

6" intermediate rail placed 40 5/16" (1024) O.C. from bottom of the door sill with 25 1/8" (638) visible panel height.



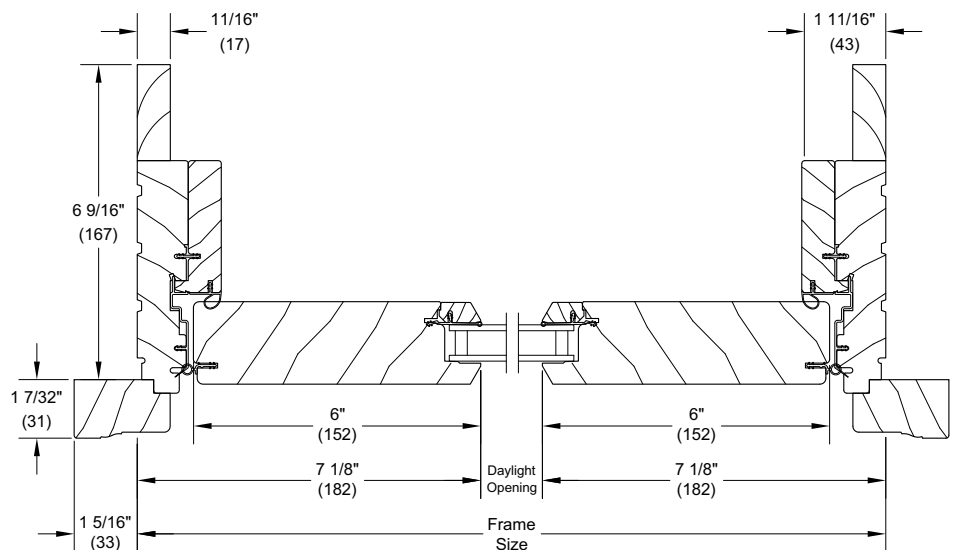
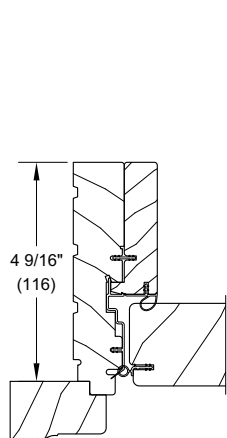
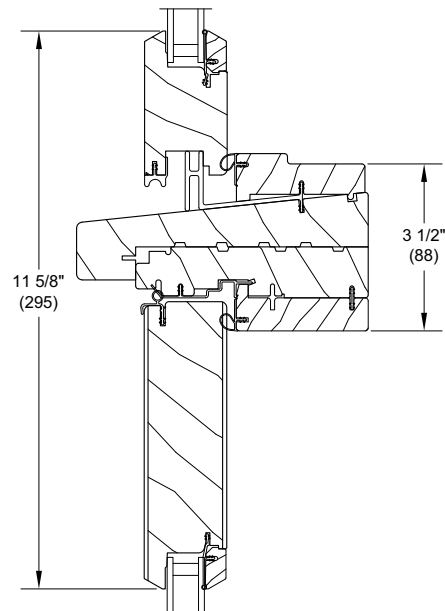
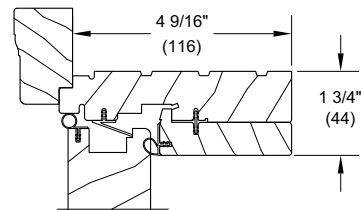
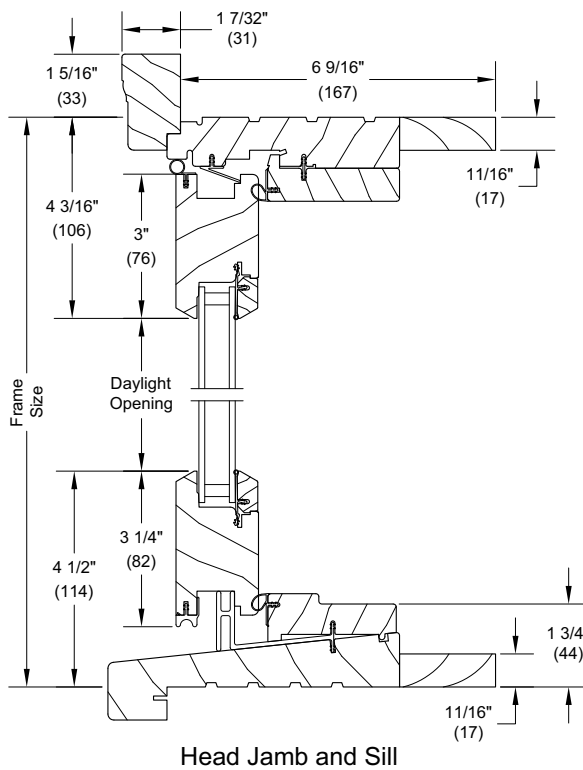
XX - Meeting Stiles



X - LHR - Jamb

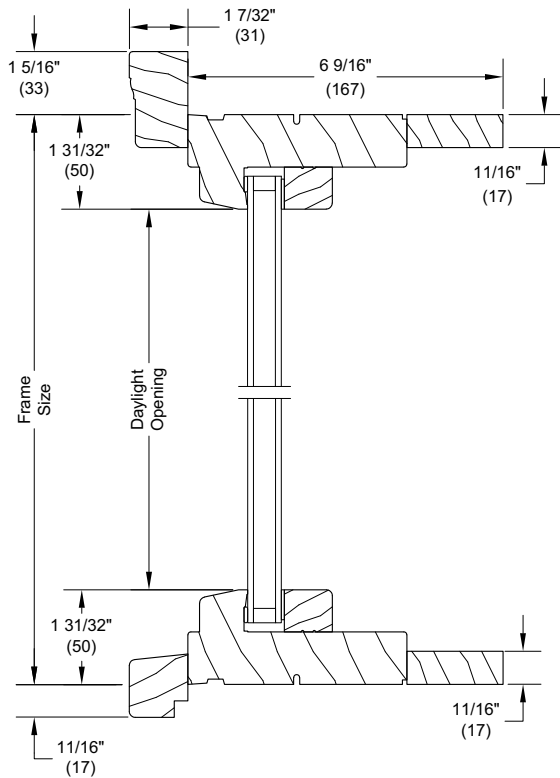
1 3/4" and 2 1/4" Commercial Section Details: In-Sash Transom

Scale: 3" = 1' 0"

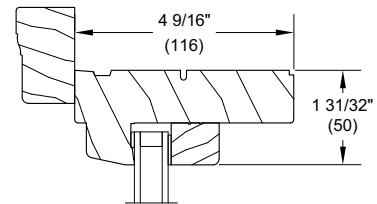


1 3/4" and 2 1/4" Commercial Section Details: Direct Glaze Transom

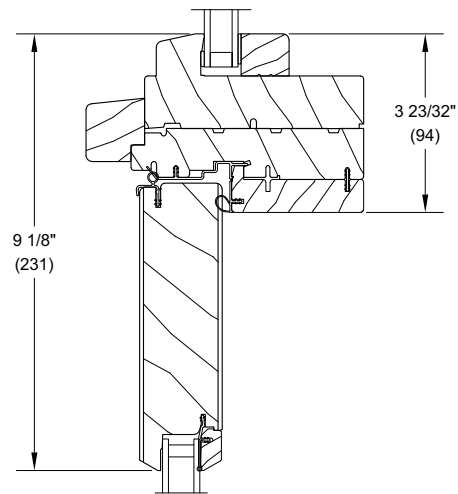
Scale: 3" = 1' 0"



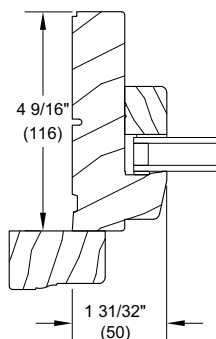
Head Jamb and Sill



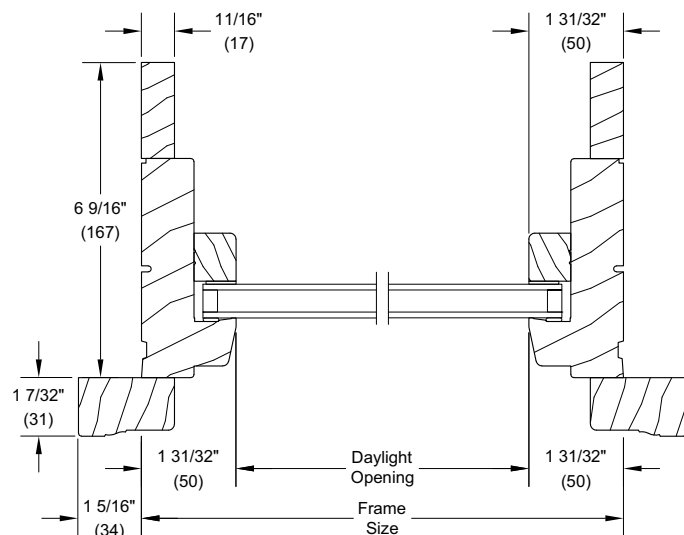
Ultimate Direct Glaze
4 9/16" Head Jamb



Rectangular Ultimate Direct Glaze Transom
over Ultimate Commercial Door w/ 4 9/16" Jamb



4 9/16" Side Jamb



Ultimate Direct Glaze Transom Jamb