

# 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.

### 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 in 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 Extira® 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.

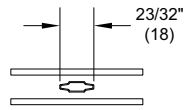
### **Glass and Glazing:**

- 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.
- UWCD has 3/4" IG with removable interior vinyl glazing stops with non finger-jointed wood covers, no visible fasteners.
- UWMCD Commercial Door has 1" IG with nailed on glazing stops.
- Glazing Method: Tempered Insulating Glass (Altitude Adjusted).
- Dual-pane insulating glass thickness: 15/16".
- Insulating Glass Coating:
  - Low E1
  - Low E2
  - Low E3
  - Low ERS
  - Low ELR
- Gas Fill: Air or Argon
- Glass Type: Clear; Bronze; Gray; Reflective Bronze; Obscure; Laminated and Decorative glass options.
- ADL glazing option not available with Argon.

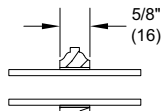
**Standard Divided Lite Option**



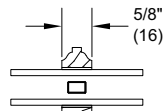
Insulating Glass



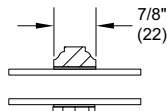
Aluminum 23/32"  
Contour GBG



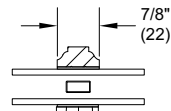
5/8" SDL



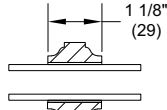
5/8" SDL  
W/Spacer



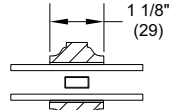
7/8" SDL



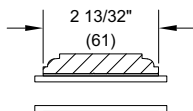
7/8" SDL  
W/Spacer Bar



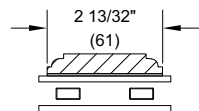
1 1/8" SDL



1 1/8" SDL  
W/Spacer Bar



2 13/32" SDL

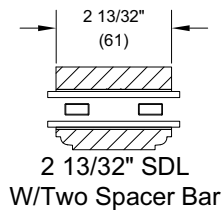
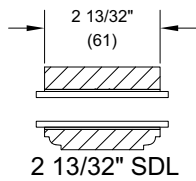
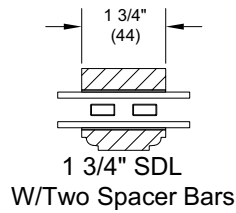
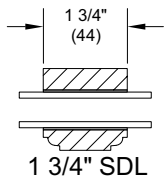
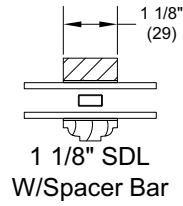
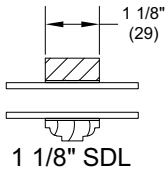
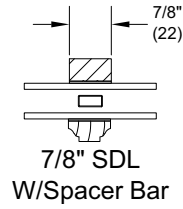
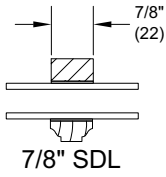
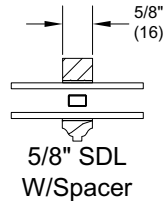
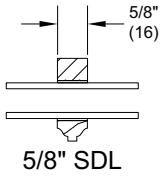


2 13/32" SDL  
W/Two Spacer Bar

*NOTE: Due to the inherent qualities of tempered glass, daylight gaps may be seen when using simulated divided lite bars. Daylight gaps could be visible between the internal spacer bar and surface applied bars when viewing from an acute angle to the glass on the following applications:*

- Tempered glass over 72" high while using 5/8" SDL bars
- Tempered glass over 91" high while using 7/8" SDL bars.

**Optional Interior Square Simulated Divided Lite**



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) |

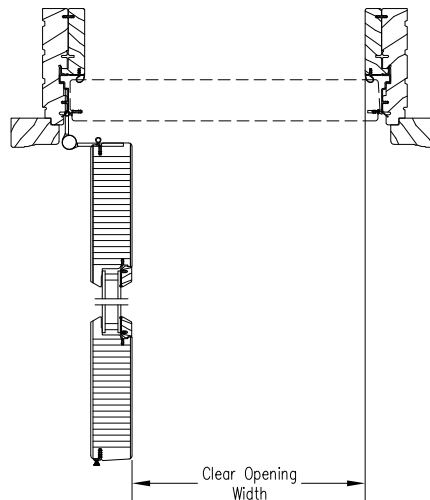
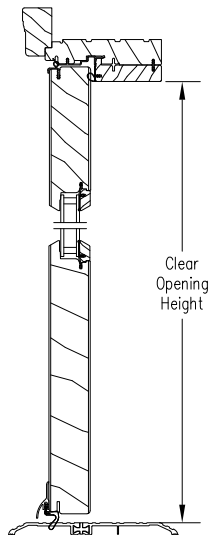
| Maximum Guidelines - Ultimate Wood Direct Glaze Rectangles / Transoms |                             |                       |            |        |
|---|-----------------------------|-----------------------|------------|--------|
| Unit Type   | Max Width                   |                       | Max Height |        |
|   | in                          | mm                    | in         | mm     |
| Single Glaze  | <b>Certified Frame Size</b> |                       |            |        |
|   | 84                          | (2134)                | 87         | (2210) |
|   | 97 15/16                    | (2488)                | 74         | (1880) |
|   | 87                          | (2210)                | 84         | (2134) |
|   | 74                          | (1880)                | 97 15/16   | (2488) |
|   | <b>Non-Certified Sizes</b>  |                       |            |        |
|   | 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            | <b>Certified Size</b> |            |        |
| 84  |                             | (2134)                | 97 15/16   | (2488) |
| 97 15/16  |                             | (2488)                | 84         | (2134) |
| <b>Non-Certified Sizes</b>  |                             |                       |            |        |
| 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](#)

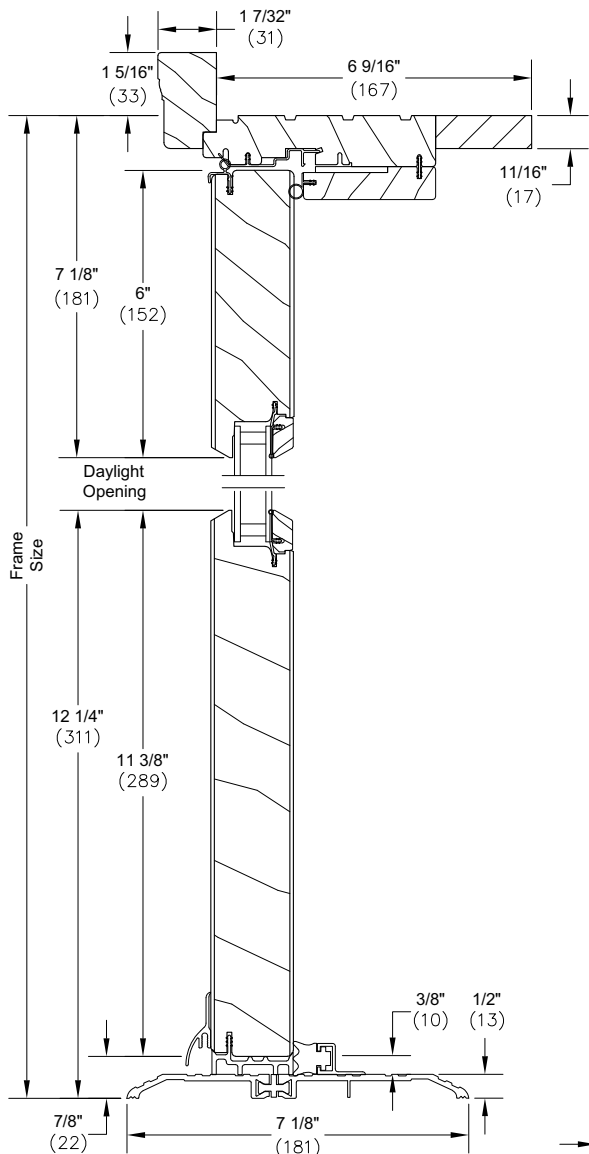
**Measurements Conversions**

| In-Sash Transom Unit Measurements |                 | Width      |           |  |  | Height    |           |
|-----------------------------------|-----------------|------------|-----------|--|--|-----------|-----------|
| From                              | To              | in         | mm        |  |  | in        | mm        |
| <b>Rough Opening</b>              |                 | <b>in</b>  | <b>mm</b> |  |  | <b>in</b> | <b>mm</b> |
| OM of Frame                       | Rough Opening   | + 1        | (25)      |  |  | + 1/2     | (13)      |
| Masonry Opening w/BMC             | Rough Opening   | -2 1/8     | (54)      |  |  | -1 1/16   | (27)      |
| <b>Stationary Sash</b>            |                 | <b>in</b>  | <b>mm</b> |  |  | <b>in</b> | <b>mm</b> |
| 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)     |
| <b>Glass</b>                      |                 | <b>in</b>  | <b>mm</b> |  |  | <b>in</b> | <b>mm</b> |
| Daylight Opening                  | Glass           | + 1 5/16   | (33)      |  |  | + 1 5/16  | (33)      |

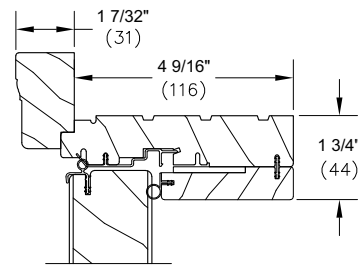


**1 3/4" Commercial Section Details: Stationary and Sidelite**

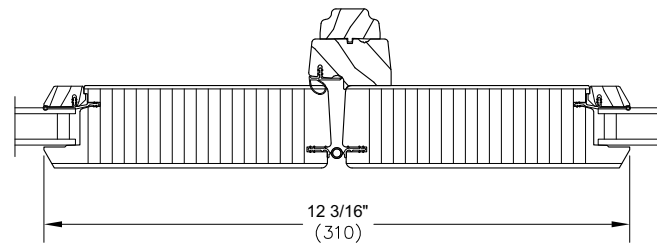
Scale: 3" = 1' 0"



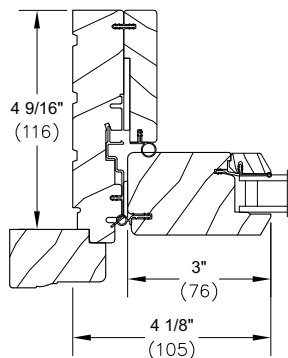
**Head Jamb and Sill**



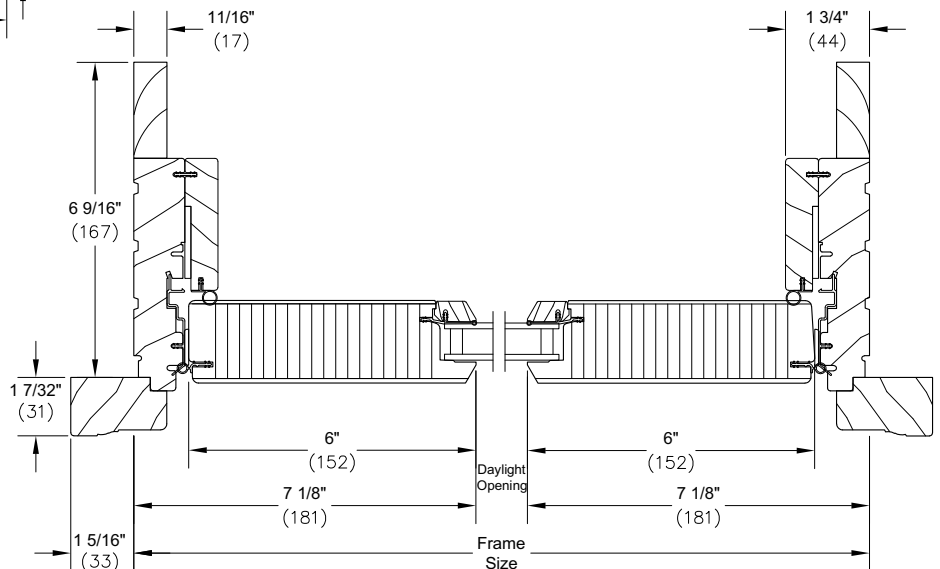
**4 9/16" Head Jamb**



**OO - Meeting Stiles**



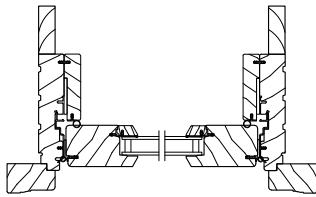
**O Jamb  
3" Stile**



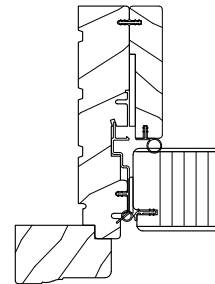
**O - Jamb**

**1 3/4" Commercial Section Details: Panel Configurations**

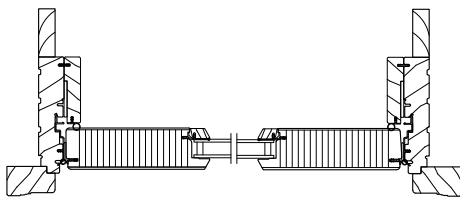
Scale: 1 1/2" = 1'



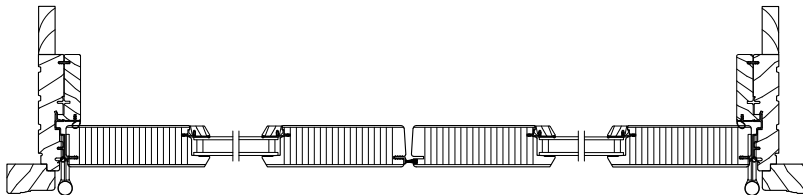
Sidelite Jamb



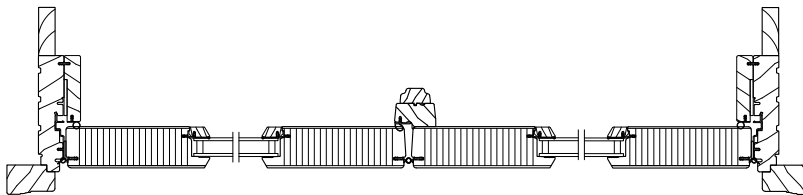
4 9/16" - Jamb  
Scale: 3" = 1'-0"



O Jamb



XX - RHRA Jamb

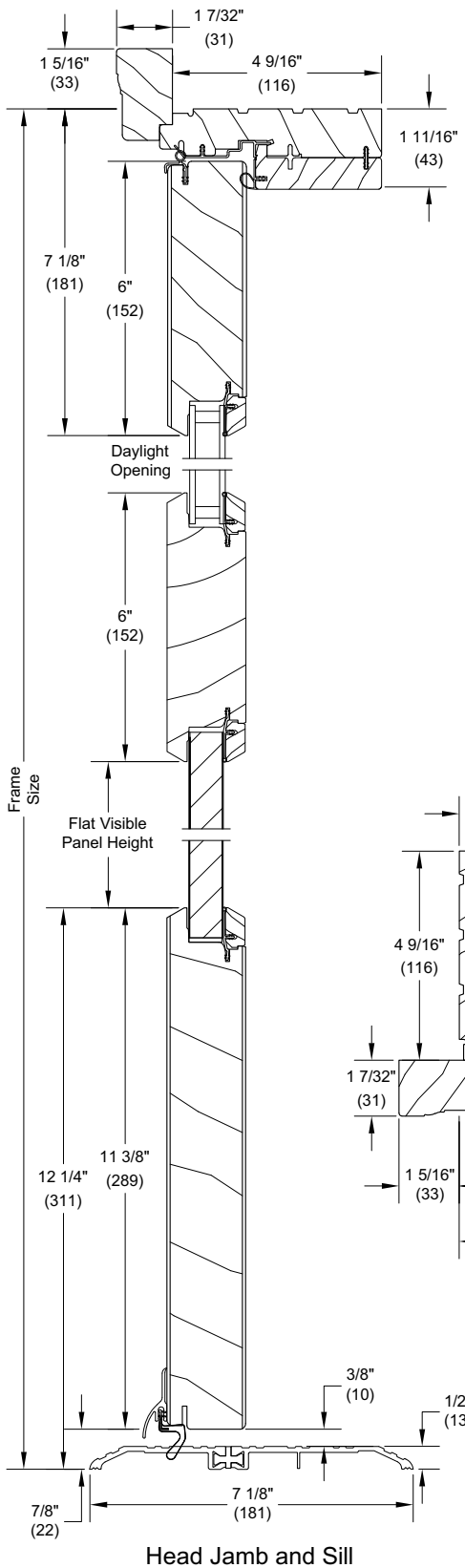


OO Jamb



**1 3/4" Commercial Section Details: Flat Panel Placement**

Scale: 3" = 1' 0"

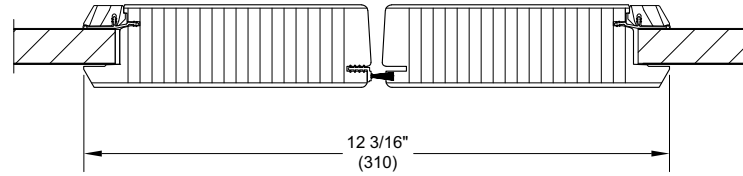


**Flat Panel - Standard Configuration/ Low Placement**

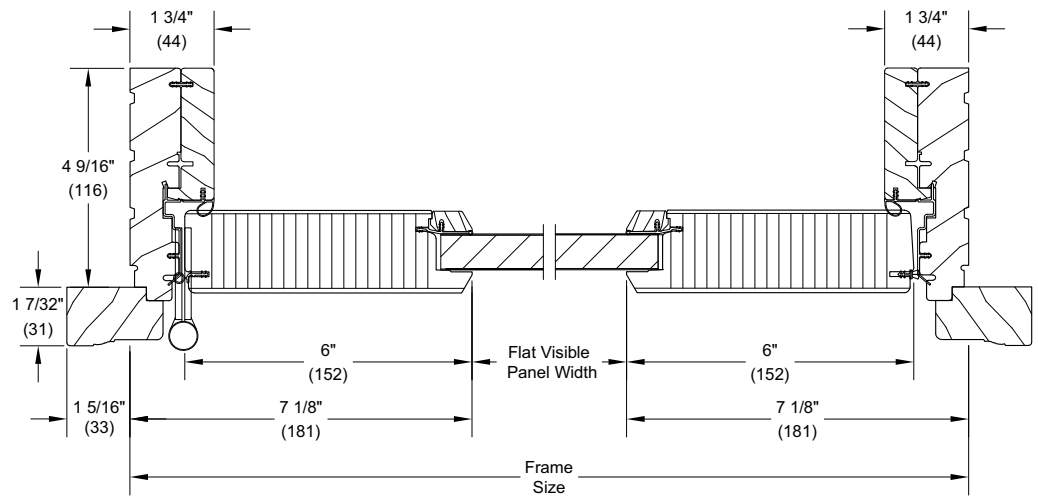
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



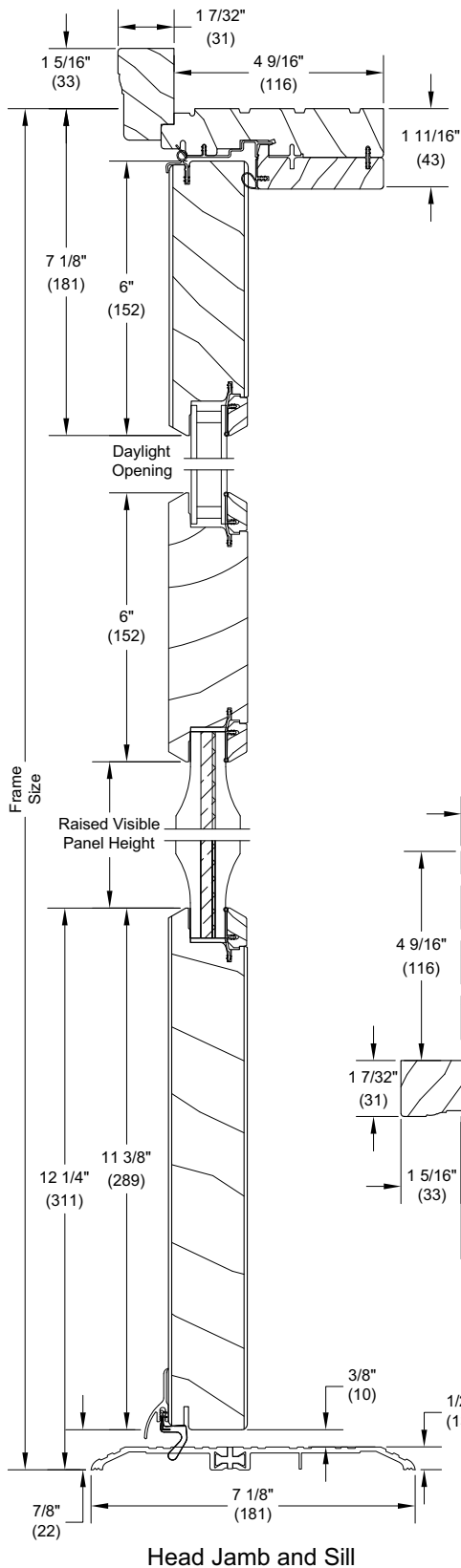
XX - Meeting Stiles



X - LHR - Jamb

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

Scale: 3" = 1' 0"

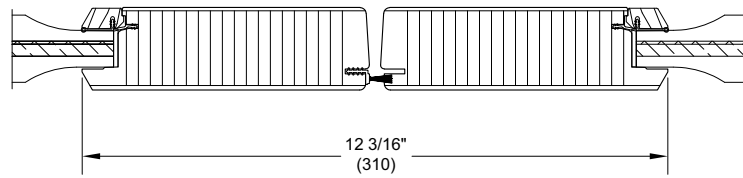


**Raised Panel - Standard Configuration / Low Placement**

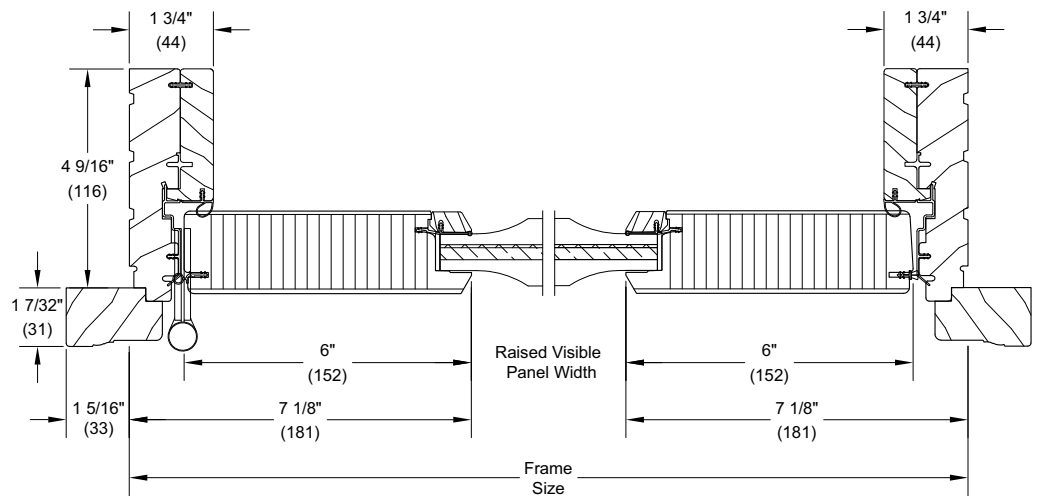
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



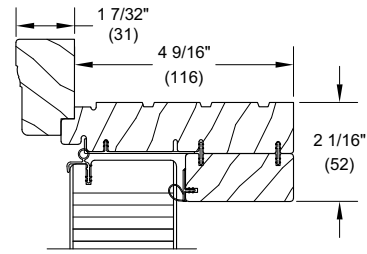
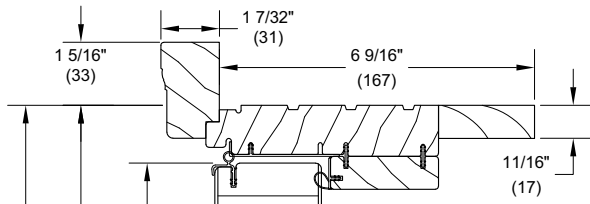
XX - Meeting Stiles



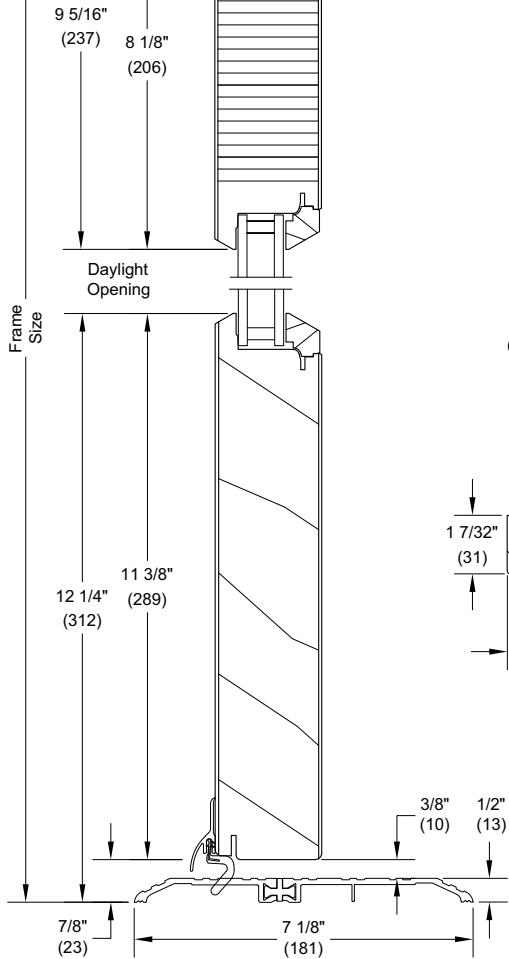
X - LHR - Jamb

**2 1/4" Commercial Section Details: Operating**

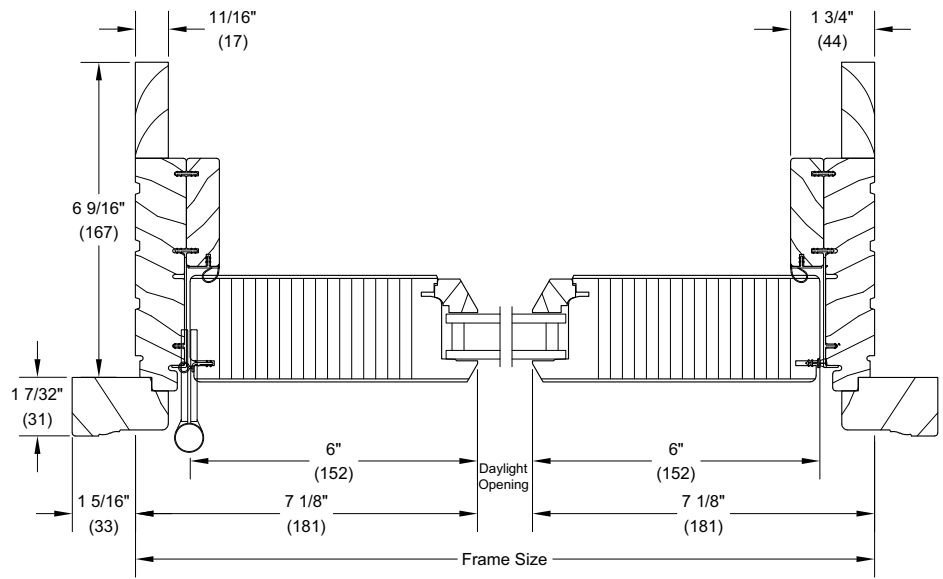
Scale: 3" = 1' 0"



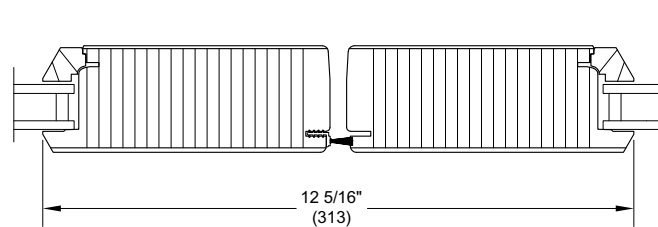
**Head Jamb with Von Duprin 5547 Hardware Prep**



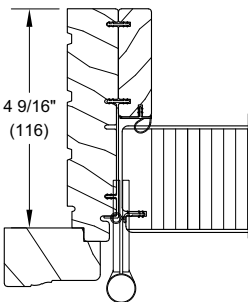
**Head Jamb and Sill**



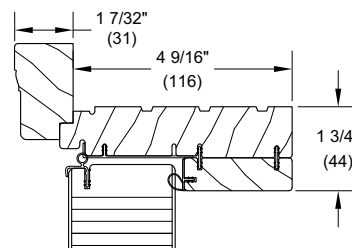
**X - LHR - Jamb**



**XX - Meeting Stiles**



**4 9/16" Jamb**

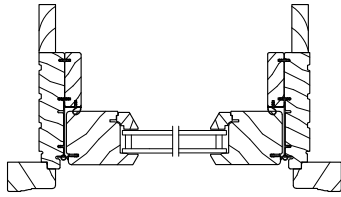


**4 9/16" Head Jamb**

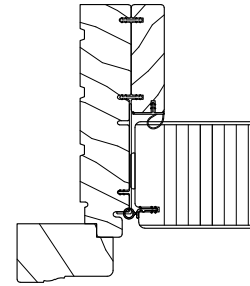


**2 1/4" Commercial Section Details: Panel Configurations**

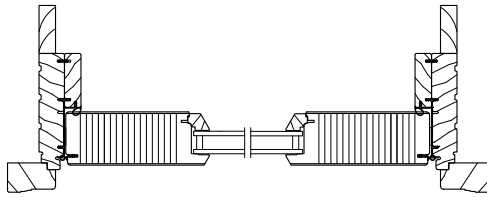
Scale: 1 1/2" = 1'



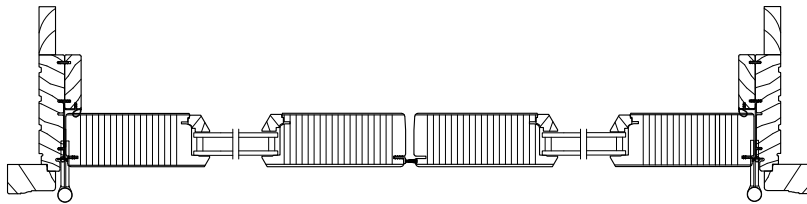
Sidelite Jamb



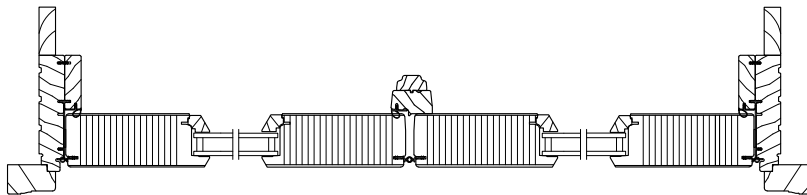
4 9/16" - Jamb  
Scale: 3" = 1'-0"



O Jamb



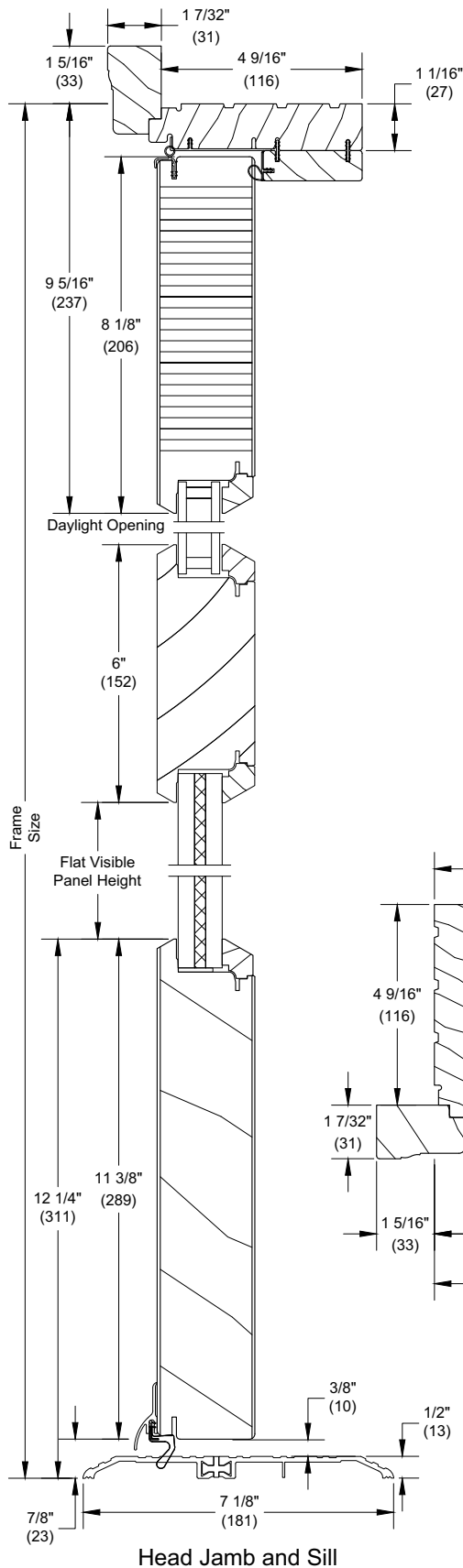
XX - RHRA Jamb



OO Jamb

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

Scale: 3" = 1' 0"

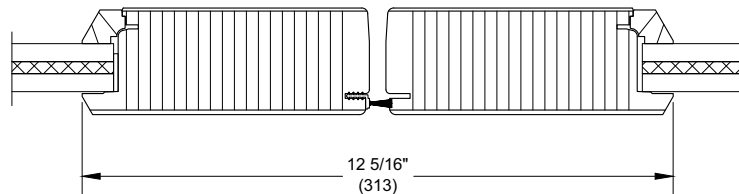


**Flat Panel - Standard Configuration/ Low Placement**

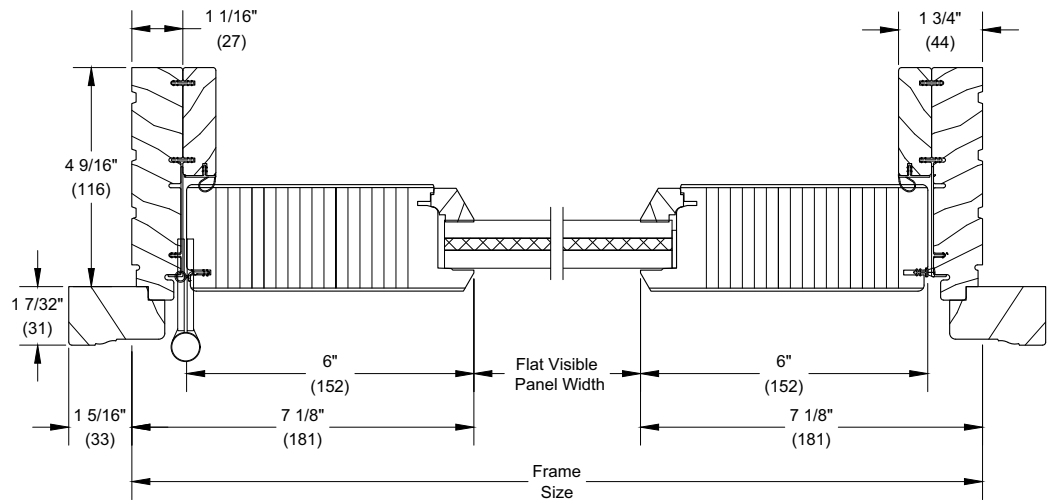
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



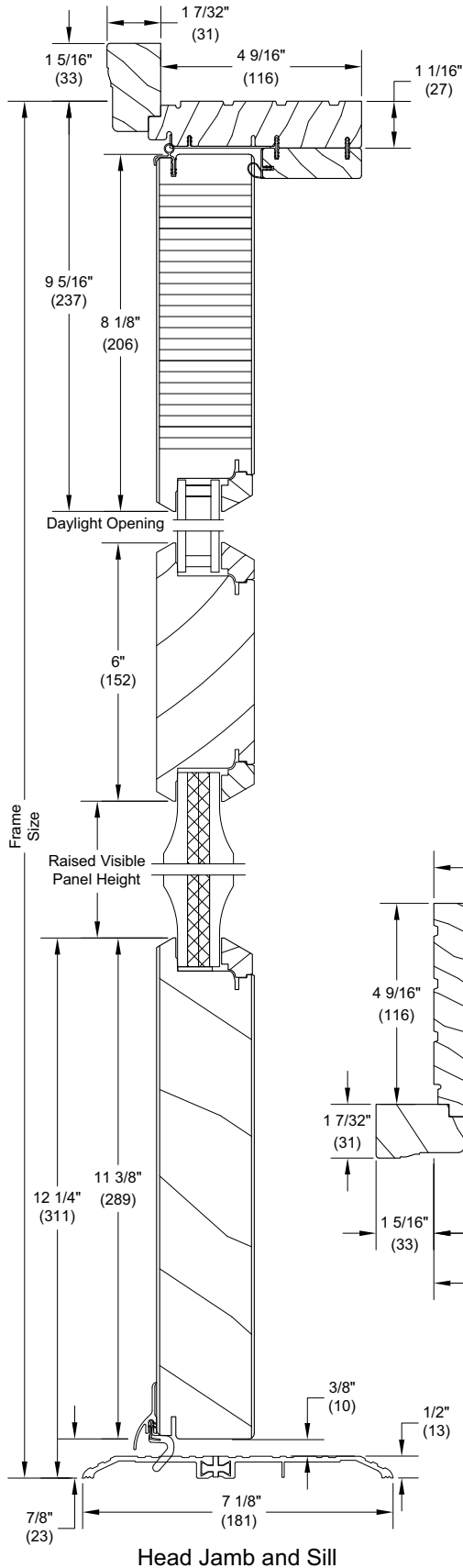
XX - Meeting Stiles



X - LHR - Jamb

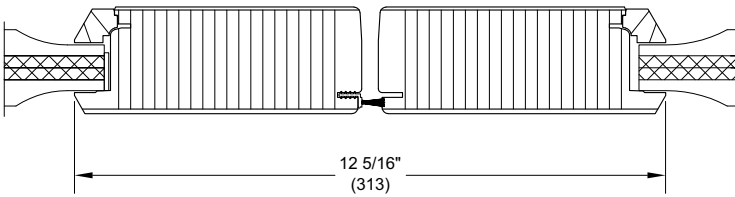
**2 1/4" Commercial Section Details: Raised Panel Placement**

Scale: 3" = 1' 0"

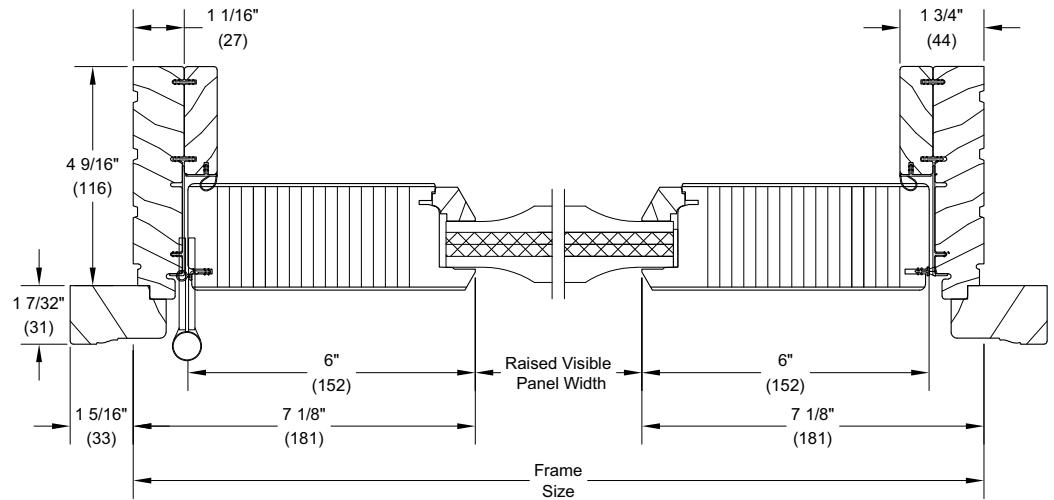


**Raised Panel - Standard Configuration / Low Placement**  
 6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



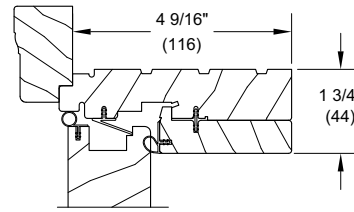
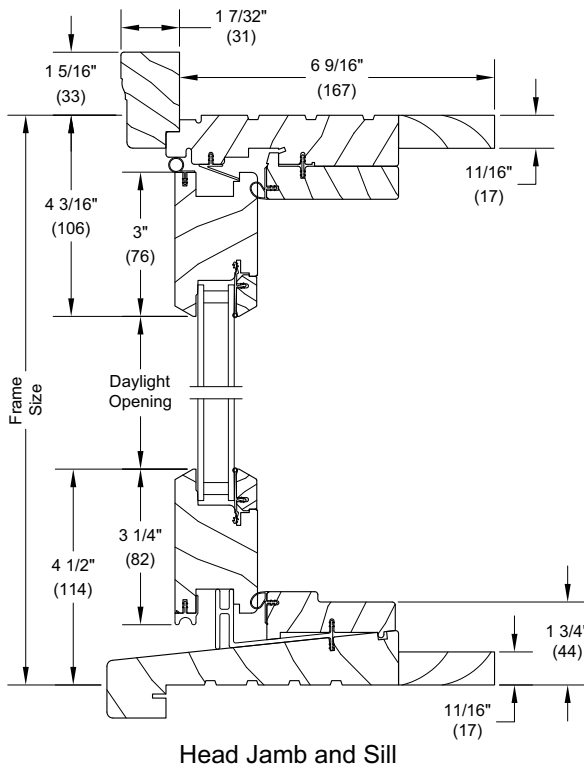
XX - Meeting Stiles



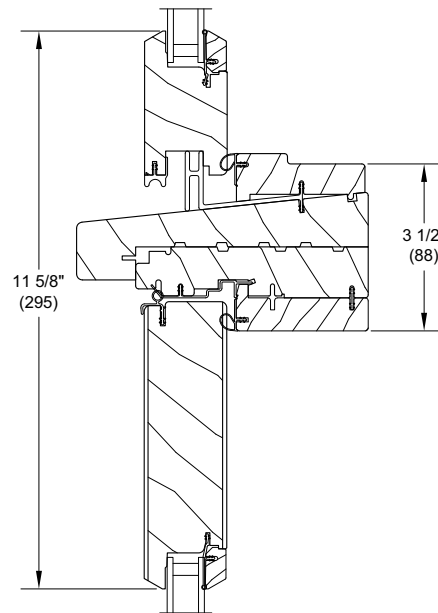
X - LHR - Jamb

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

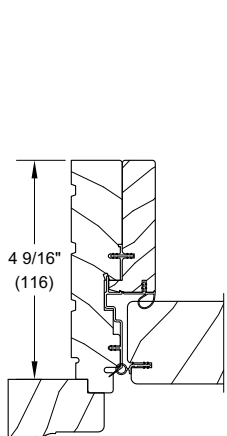
Scale: 3" = 1' 0"



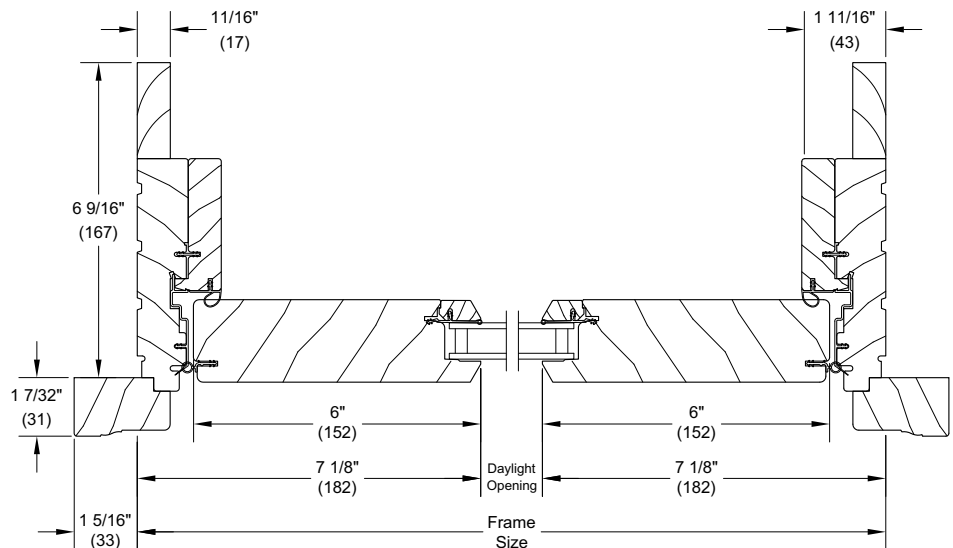
**4 9/16" In-Sash Transom Head Jamb**



**Rectangular In-Sash Transom over Ultimate Wood Commercial Door w/ 6 9/16" Jamb**



**In-Sash Transom Jamb 3" Stile**

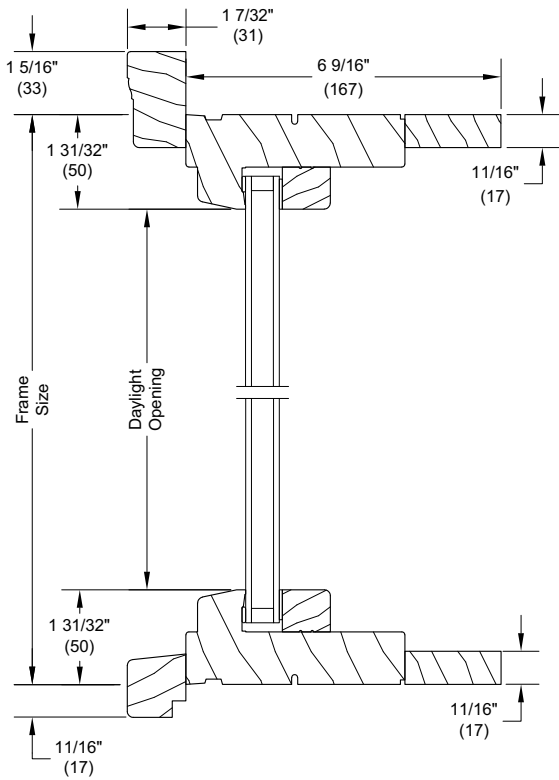


**In-Sash Transom Jamb**

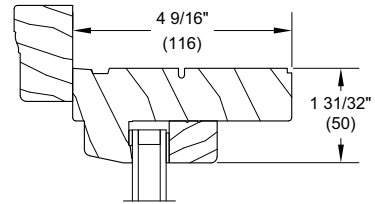


**1 3/4" and 2 1/4" Commercial Section Details: Direct Glaze Transom**

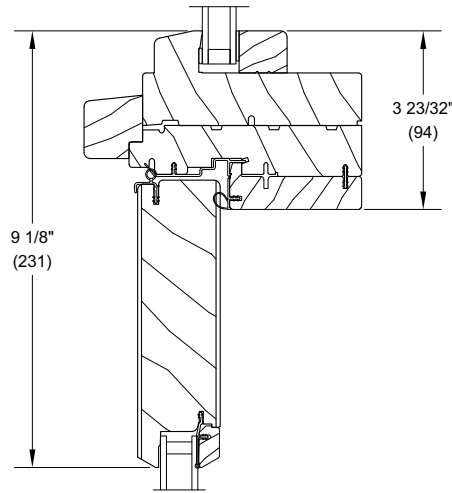
Scale: 3" = 1' 0"



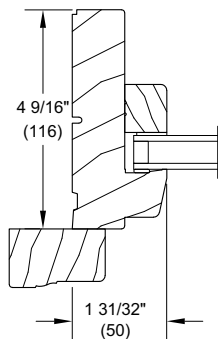
**Head Jamb and Sill**



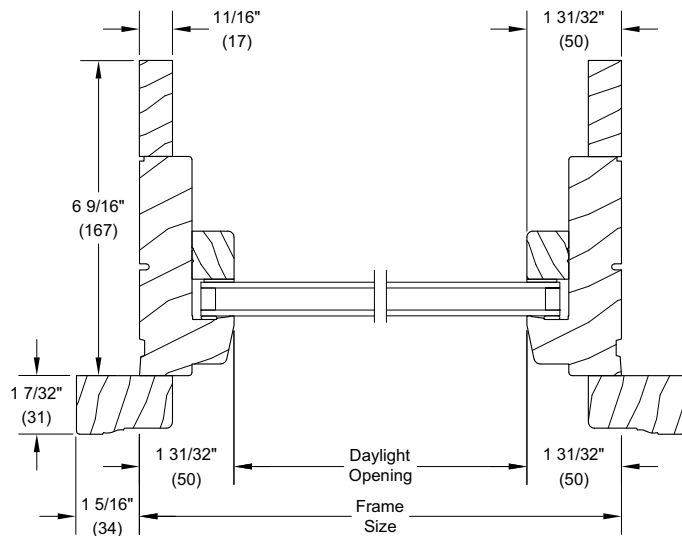
**Ultimate Direct Glaze  
4 9/16" Head Jamb**



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



**4 9/16" Side Jamb**



**Ultimate Direct Glaze Transom Jamb**