

# 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

*NOTE: CE mark not available on Ultimate Wood Commercial Door or Ultimate Wood Commercial Door 2 1/4".*

### 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, Gold 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.

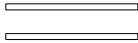
**Unit Features****Raised/Flat Panel Option:**

- 6" (152) Intermediate rail 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<sup>®</sup> 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.

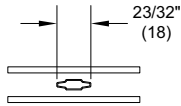
**Weather Strip:**

- 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, gold anodized or beige sills. Bronze drips will default for bronze sills.
- Sweep across panel bottom.
  - Optional: Bronze or Beige.

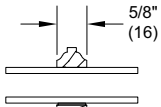
**Standard Divided Lite Option**



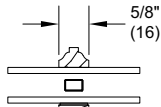
Insulating Glass



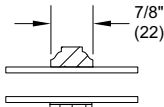
Aluminum 23/32"  
Contour GBG



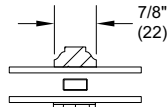
5/8" SDL



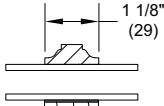
5/8" SDL  
W/Spacer



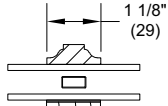
7/8" SDL



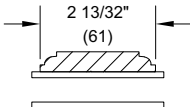
7/8" SDL  
W/Spacer Bar



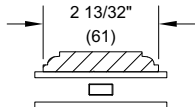
1 1/8" SDL



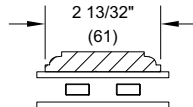
1 1/8" SDL  
W/Spacer Bar



2 13/32" SDL

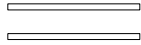


2 13/32" SDL  
W/One Spacer Bar

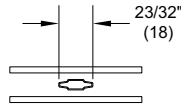


2 13/32" SDL  
W/Two Spacer Bar

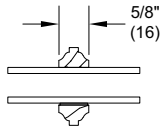
**Optional Interior Square Simulated Divided Lite**



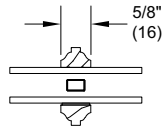
Insulating Glass



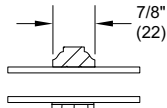
Aluminum 23/32"  
Contour GBG



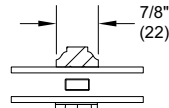
5/8" SDL



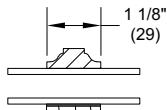
5/8" SDL  
W/Spacer



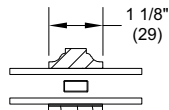
7/8" SDL



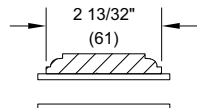
7/8" SDL  
W/Spacer Bar



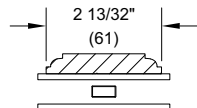
1 1/8" SDL



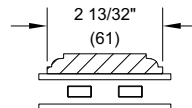
1 1/8" SDL  
W/Spacer Bar



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) |

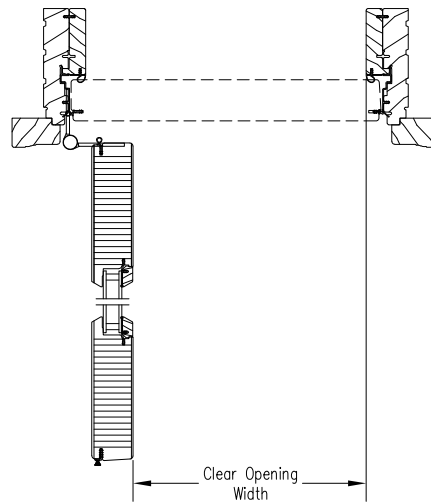
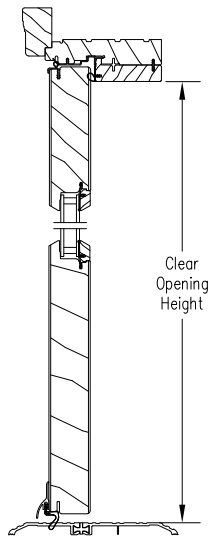
| Maximum Guidelines - Ultimate Wood Direct Glaze Rectangles / Transoms |                             |                       |            |        |
|---|-----------------------------|-----------------------|------------|--------|
| Unit Type   | Max Width                   |                       | Max Height |        |
|   | in                          | mm                    | in         | mm     |
| Single Glaze  | <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)  |

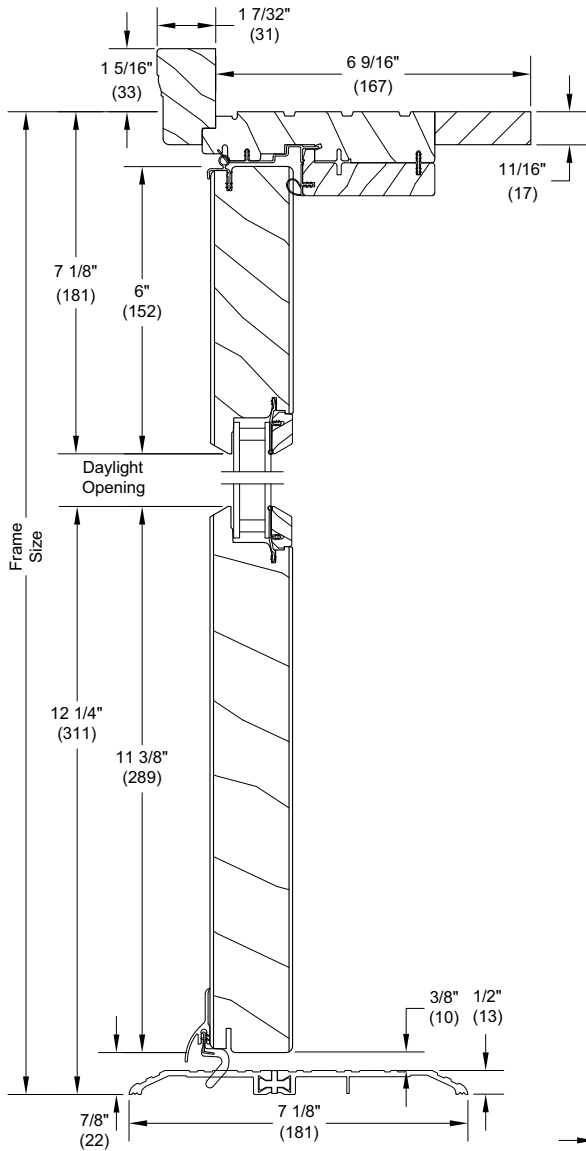
NOTE: The Ultimate Direct Glaze Door Transom Conversions are covered in the [Ultimate Wood Direct Glaze Polygon and Round Top Chapter](#)

**Measurements Conversions**

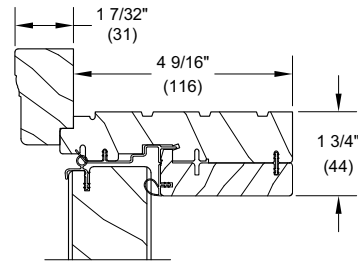
| In-Sash Transom Unit Measurements |                 | Width      |           |  |  | Height    |           |
|-----------------------------------|-----------------|------------|-----------|--|--|-----------|-----------|
| From                              | To              | in         | mm        |  |  | 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: Operating**

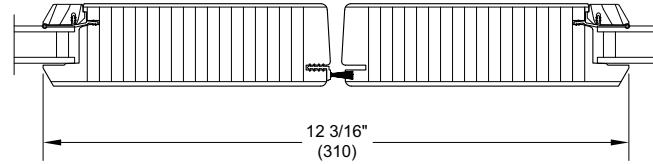
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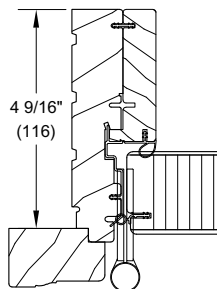
**Head Jamb and Sill**



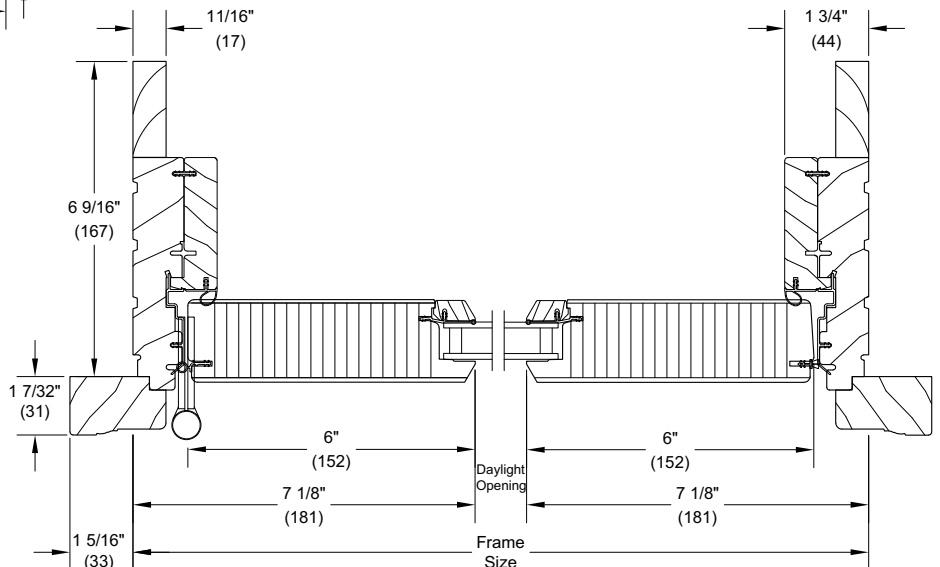
**4 9/16" Head Jamb**



**XX - Meeting Stiles**



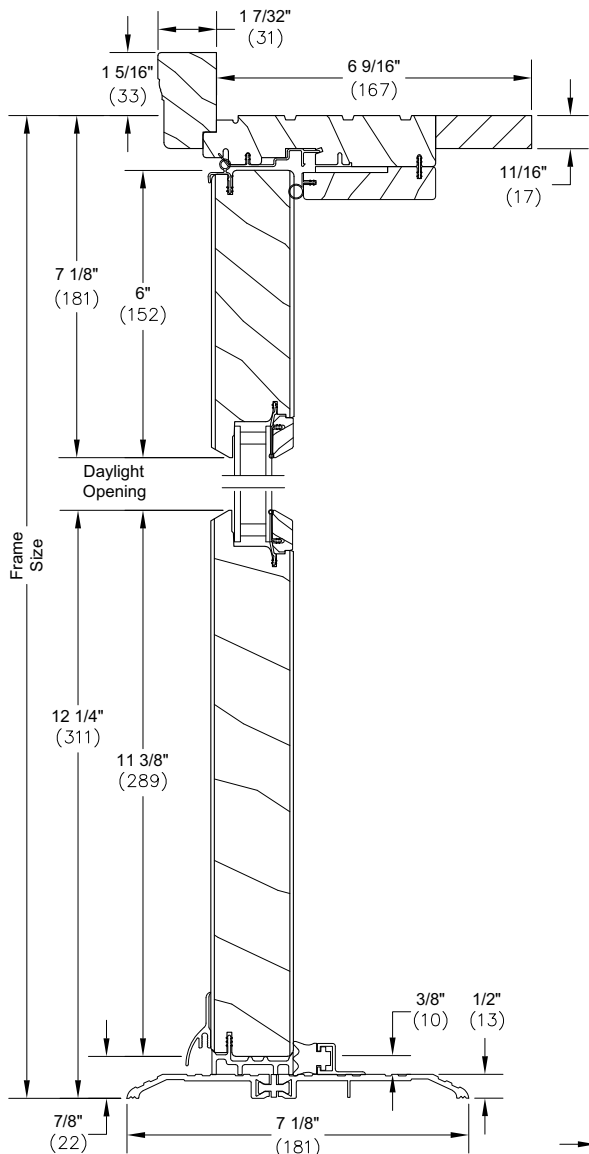
**4 9/16" Jamb**



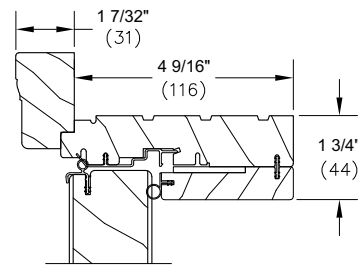
**X - LHR - Jamb**

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

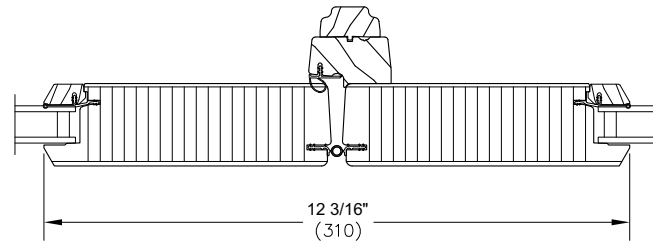
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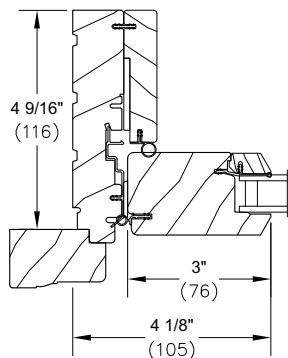
**Head Jamb and Sill**



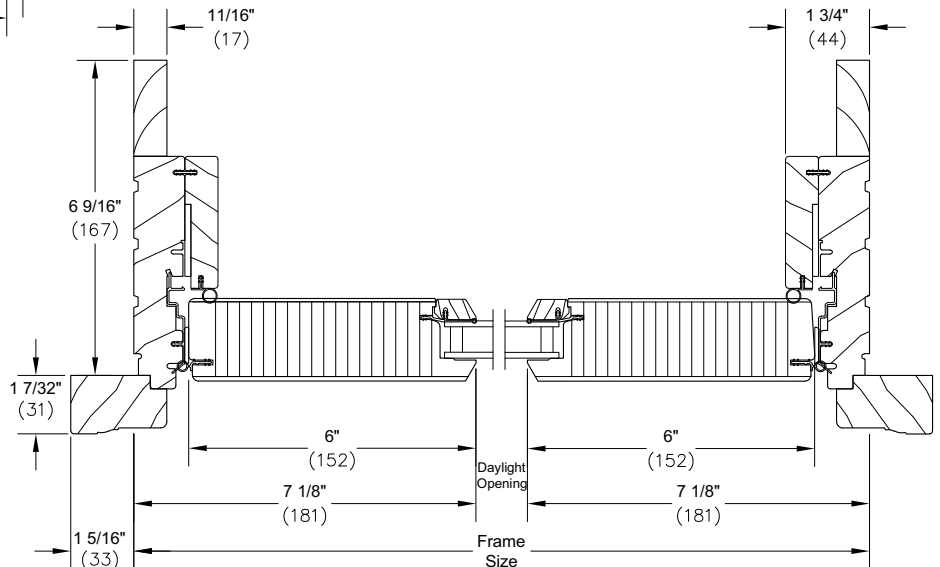
**4 9/16" Head Jamb**



**OO - Meeting Stiles**



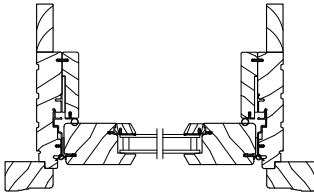
**O Jamb  
3" Stile**



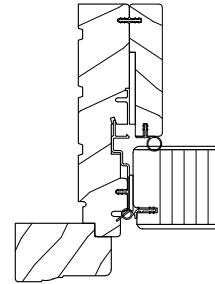
**O - Jamb**

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

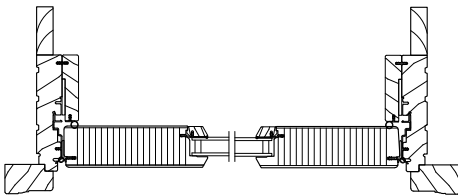
Scale: 1 1/2" = 1'



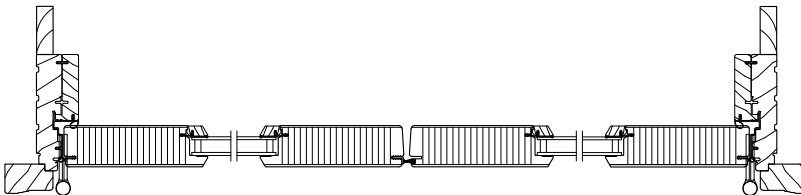
Sidelite Jamb



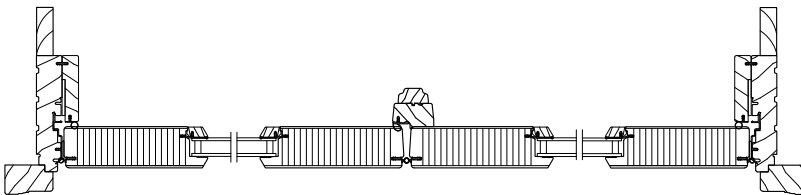
4 9/16" - Jamb  
Scale: 3" = 1'-0"



O Jamb



XX - RHRA Jamb

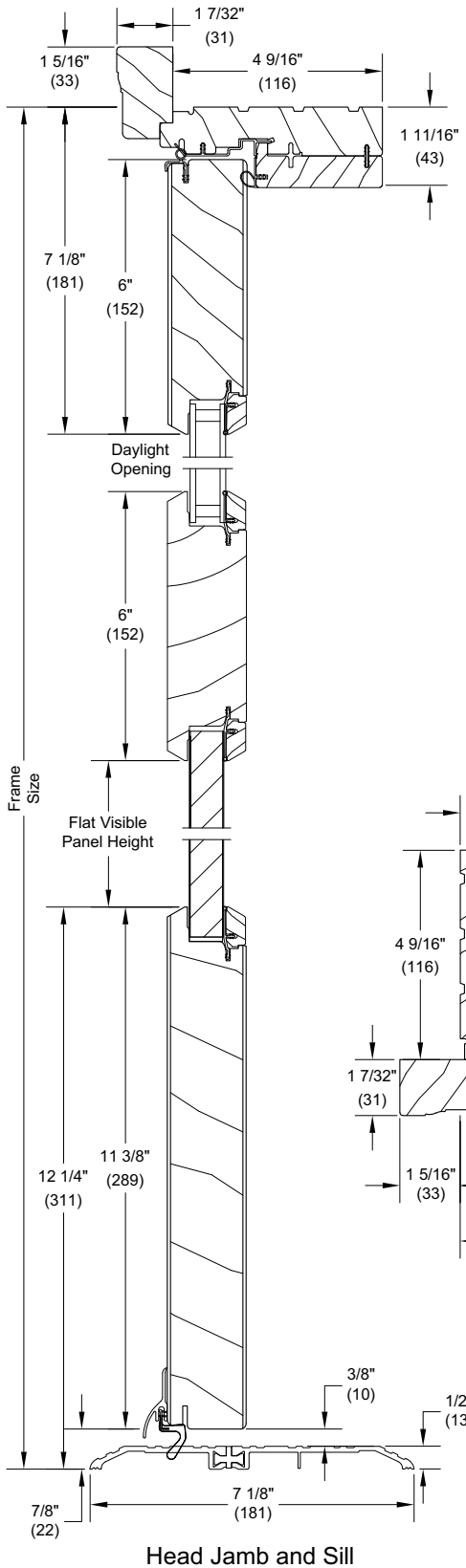


OO Jamb



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

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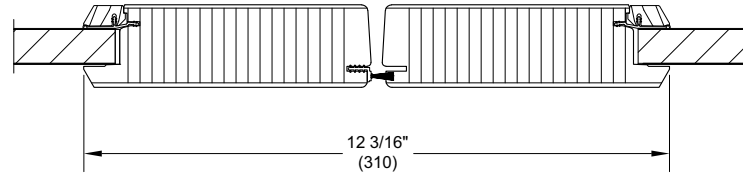


**Flat Panel - Standard Configuration/ Low Placement**

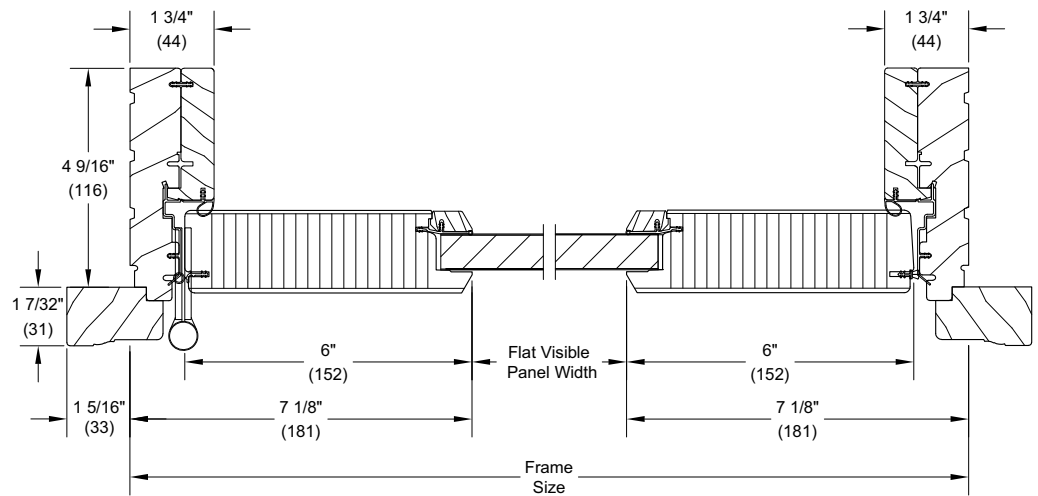
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



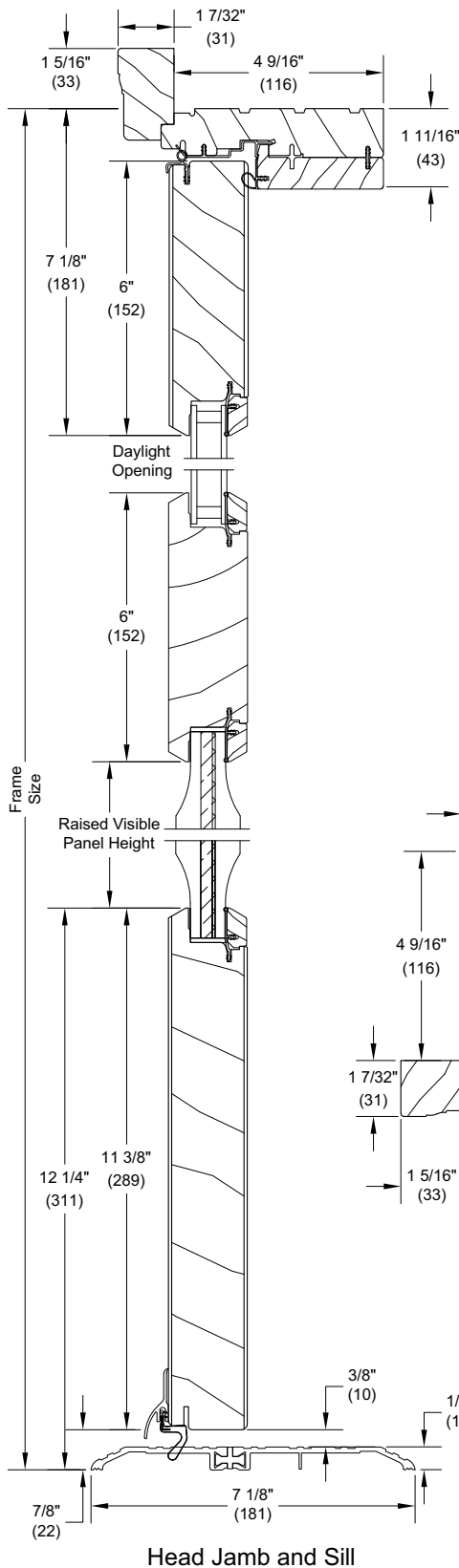
XX - Meeting Stiles



X - LHR - Jamb

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

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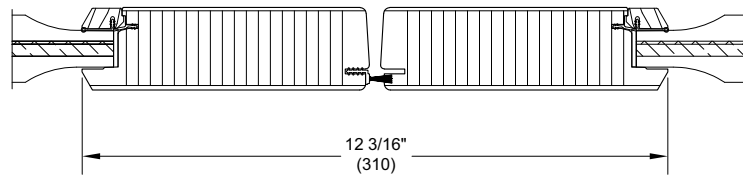


**Raised Panel - Standard Configuration / Low Placement**

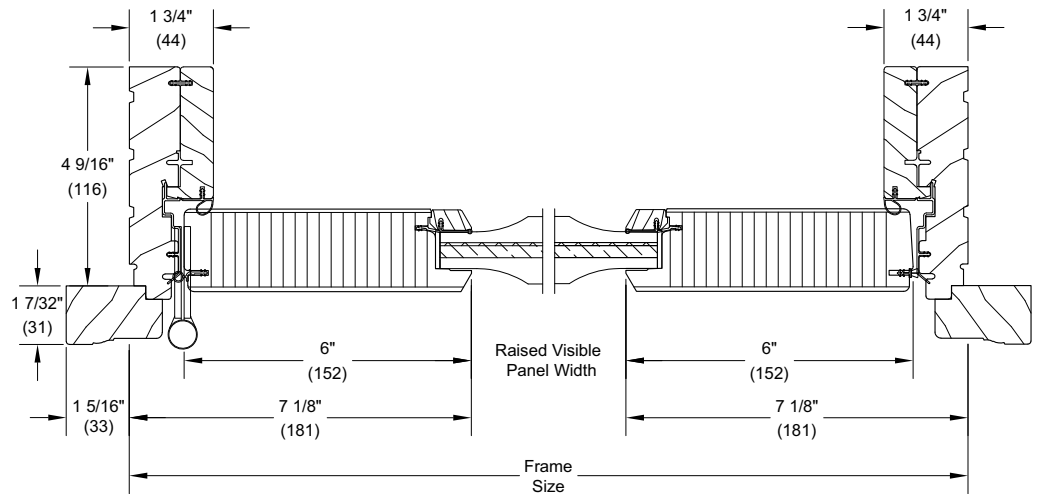
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



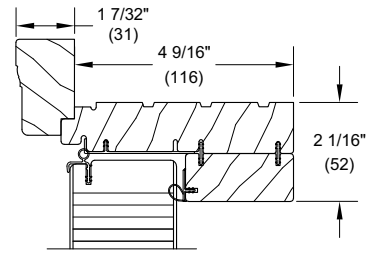
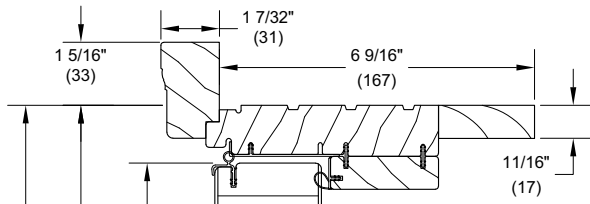
XX - Meeting Stiles



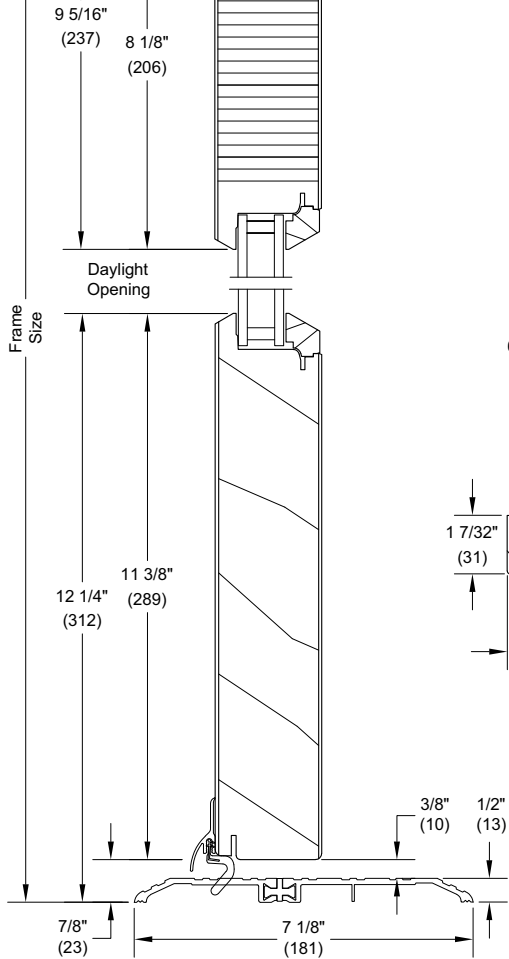
X - LHR - Jamb

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

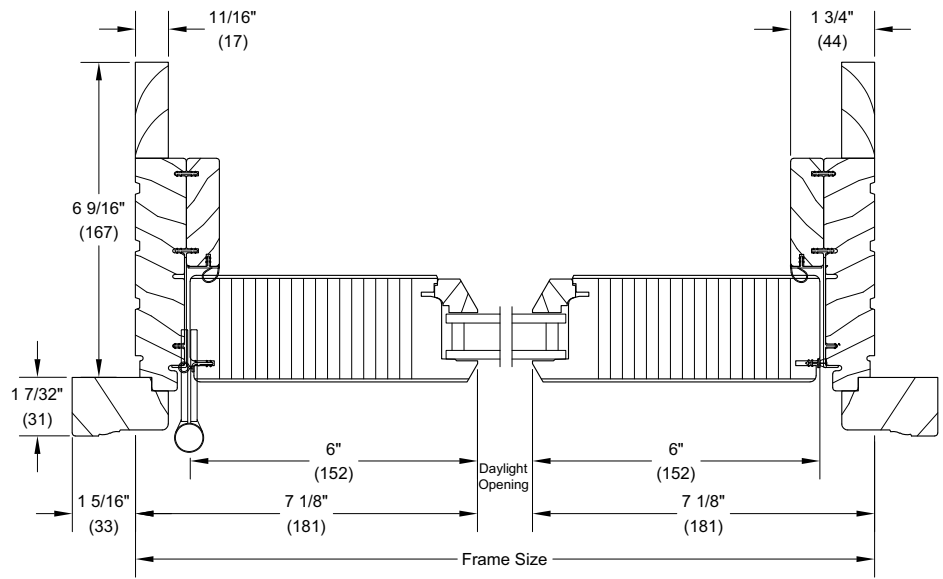
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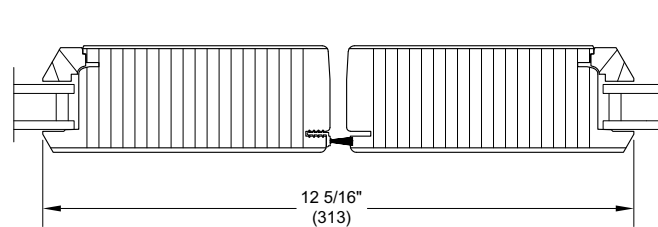
**Head Jamb with Von Duprin 5547 Hardware Prep**



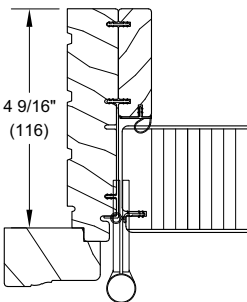
**Head Jamb and Sill**



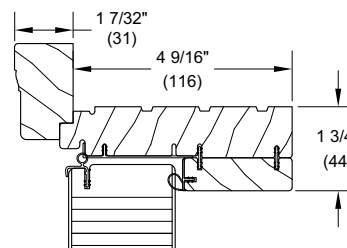
**X - LHR - Jamb**



**XX - Meeting Stiles**



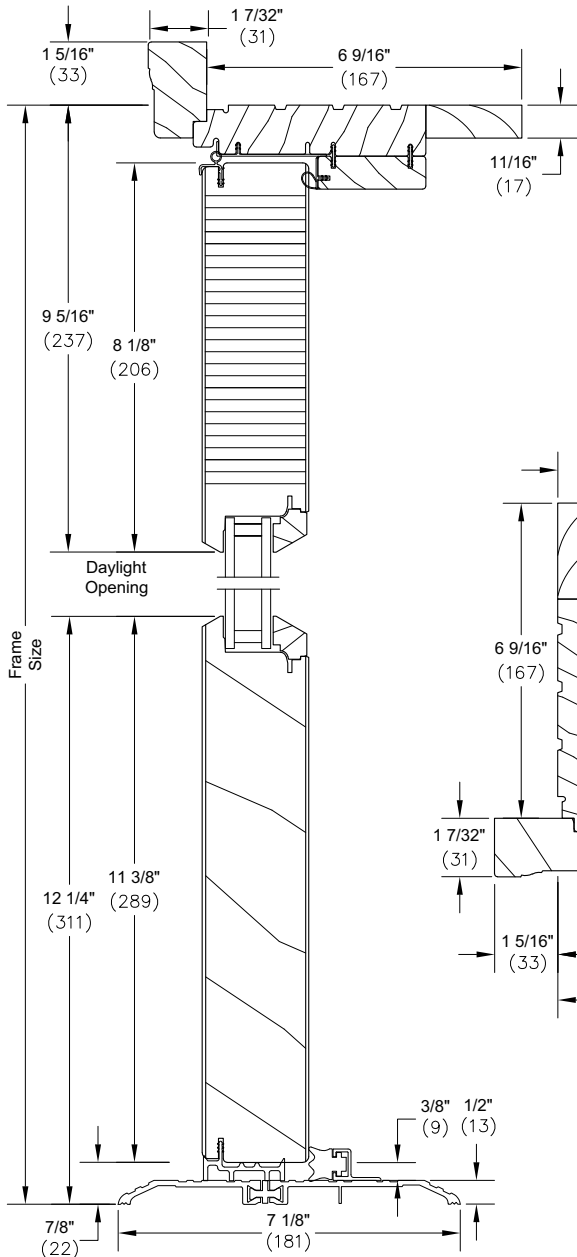
**4 9/16" Jamb**



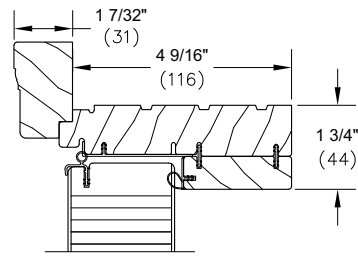
**4 9/16" Head Jamb**

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

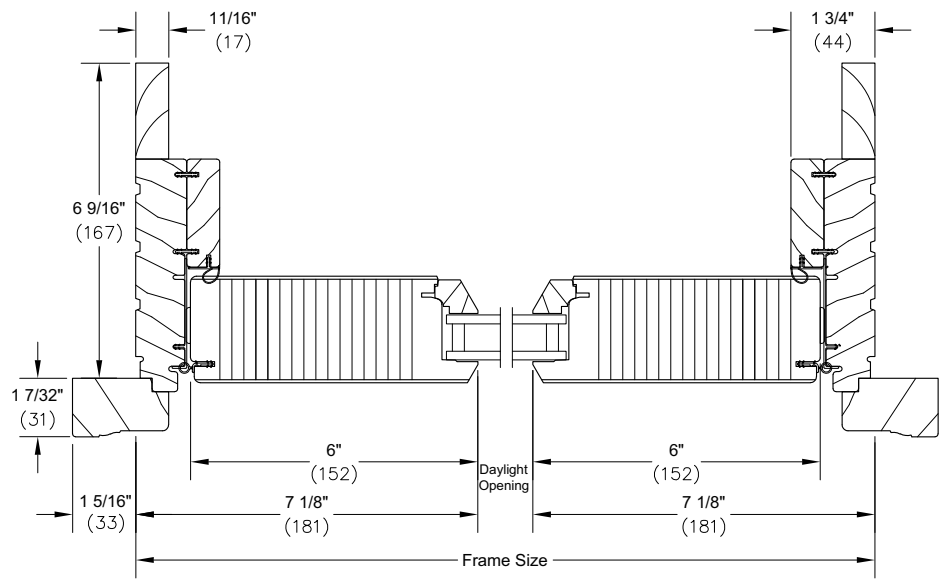
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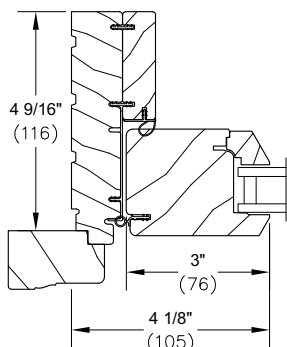
**Head Jamb and Sill**



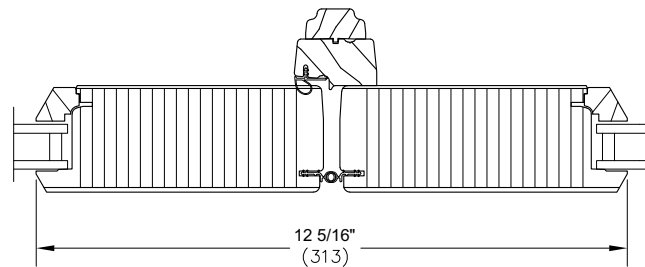
**4 9/16" Head Jamb**



**O - Jamb**



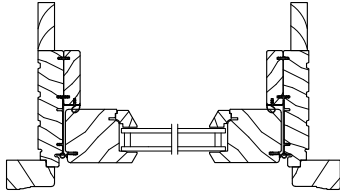
**O Jamb 3" Stile**



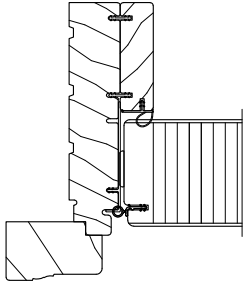
**OO - Meeting Stiles**

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

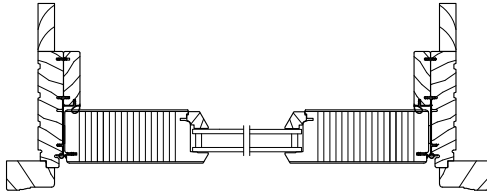
Scale: 1 1/2" = 1'



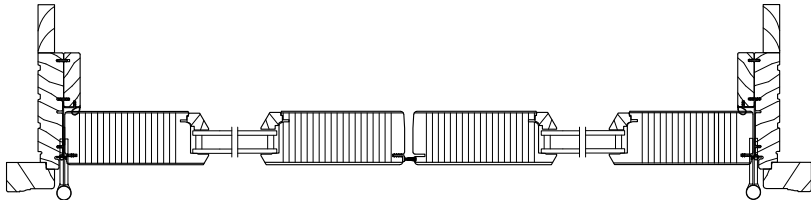
Sidelite Jamb



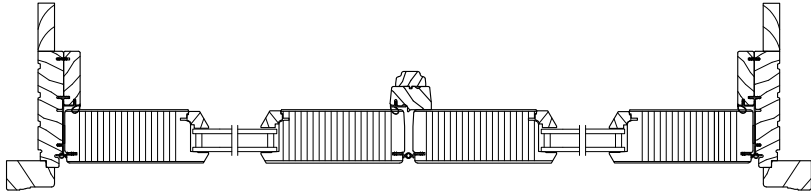
4 9/16" - Jamb  
Scale: 3" = 1'-0"



O Jamb



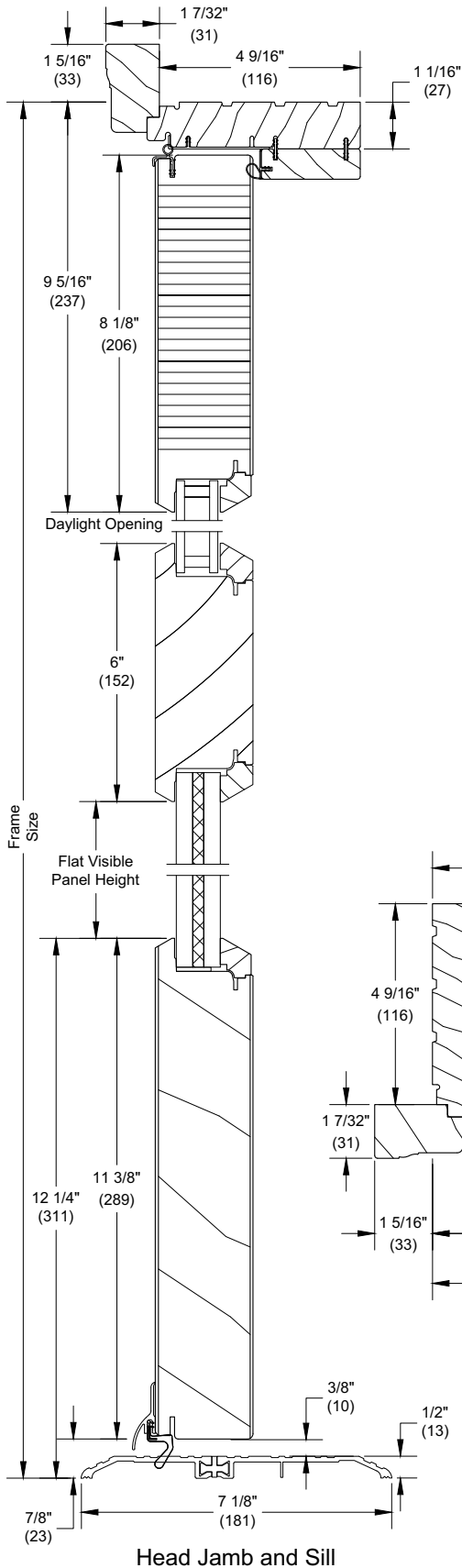
XX - RHRA Jamb



OO Jamb

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

Scale: 3" = 1' 0"

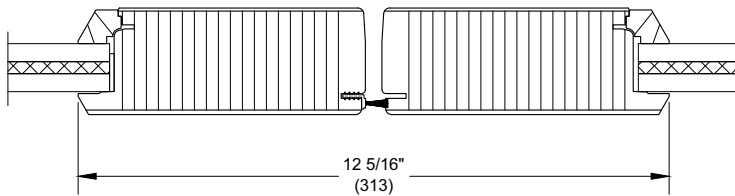


**Flat Panel - Standard Configuration/ Low Placement**

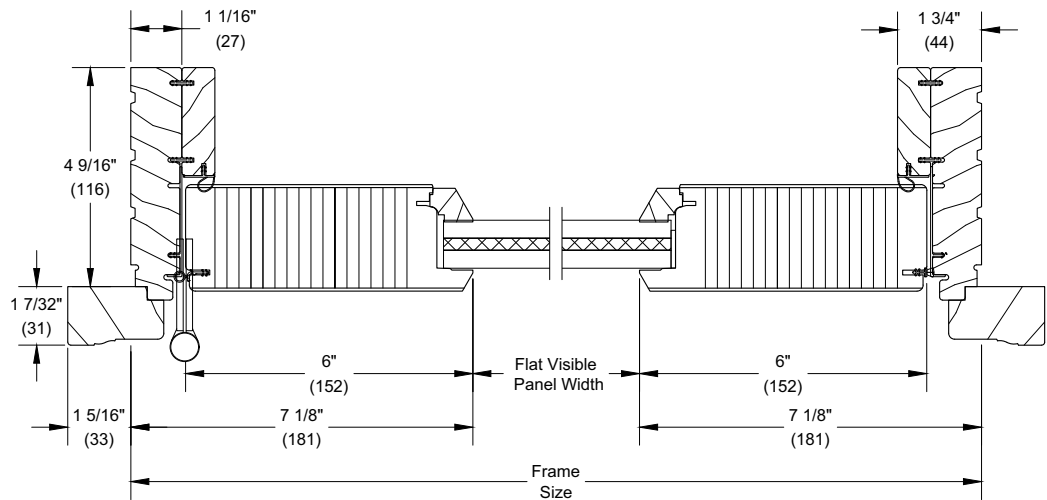
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



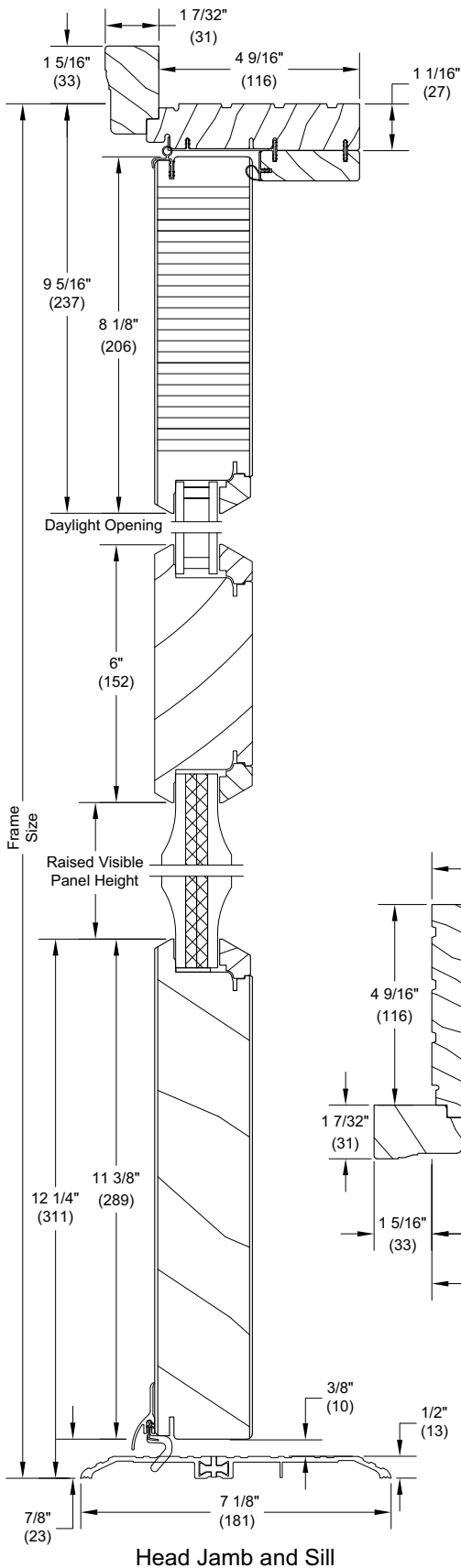
XX - Meeting Stiles



X - LHR - Jamb

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

Scale: 3" = 1' 0"

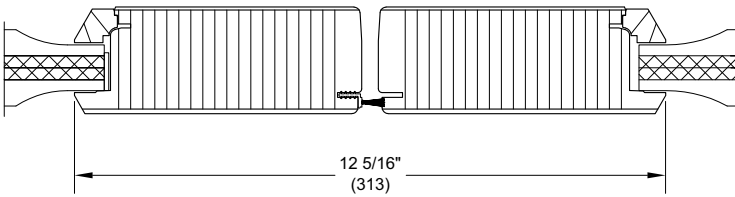


**Raised Panel - Standard Configuration / Low Placement**

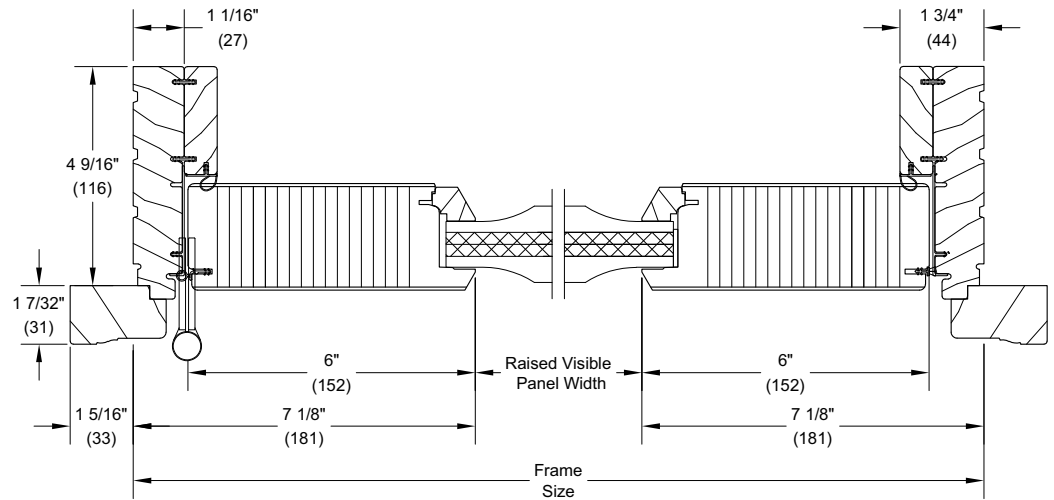
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



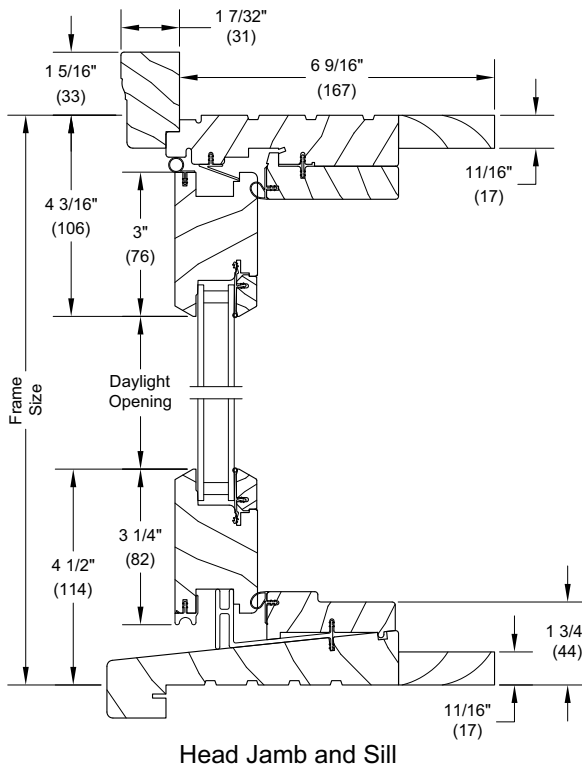
**XX - Meeting Stiles**



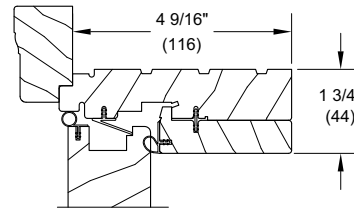
**X - LHR - Jamb**

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

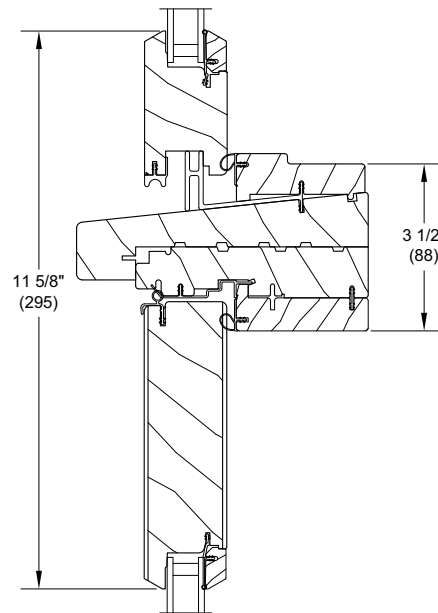
Scale: 3" = 1' 0"



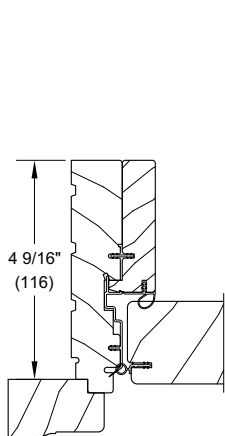
Head Jamb and Sill



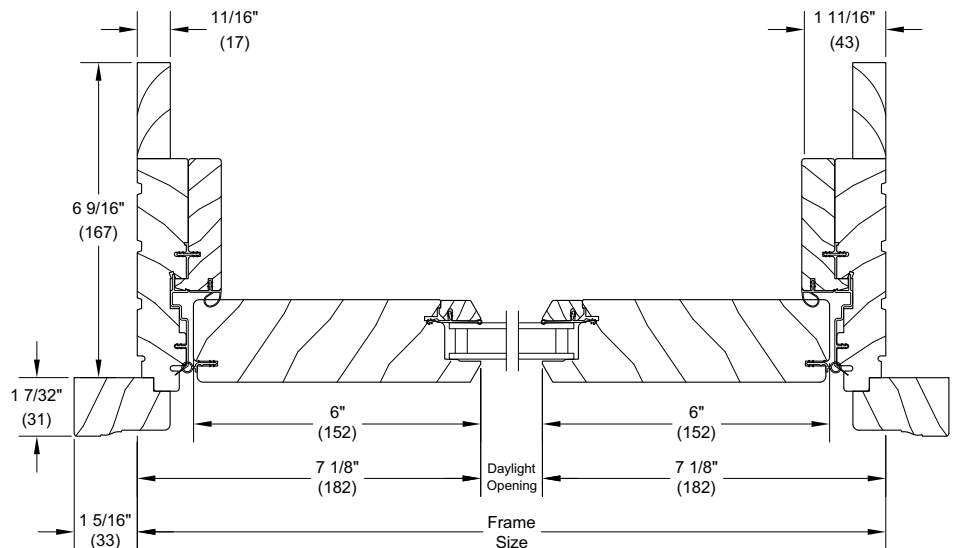
4 9/16" In-Sash Transom Head Jamb



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



In-Sash Transom Jamb 3" Stile

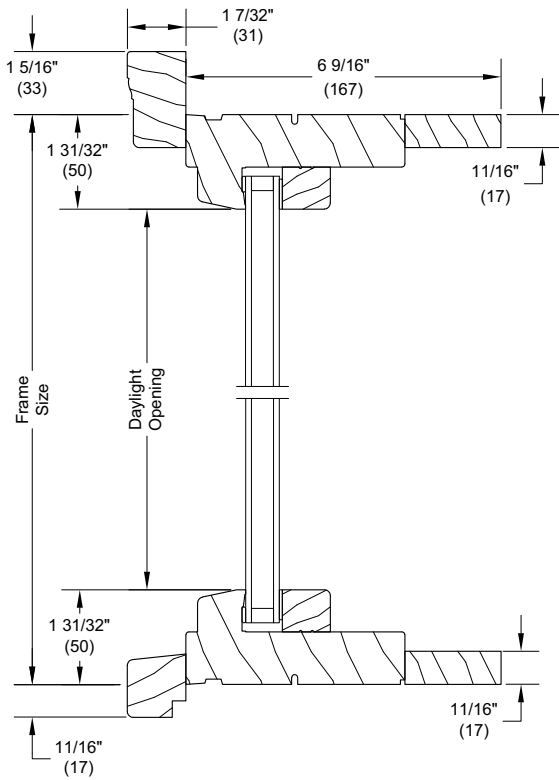


In-Sash Transom Jamb

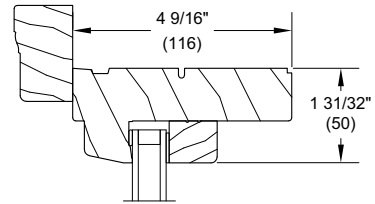


**1 3/4" and 2 1/4" Commercial Section Details: Direct Glaze Transom**

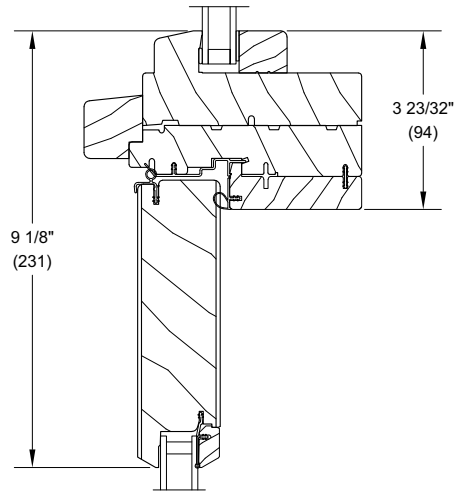
Scale: 3" = 1' 0"



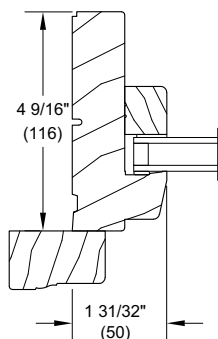
**Head Jamb and Sill**



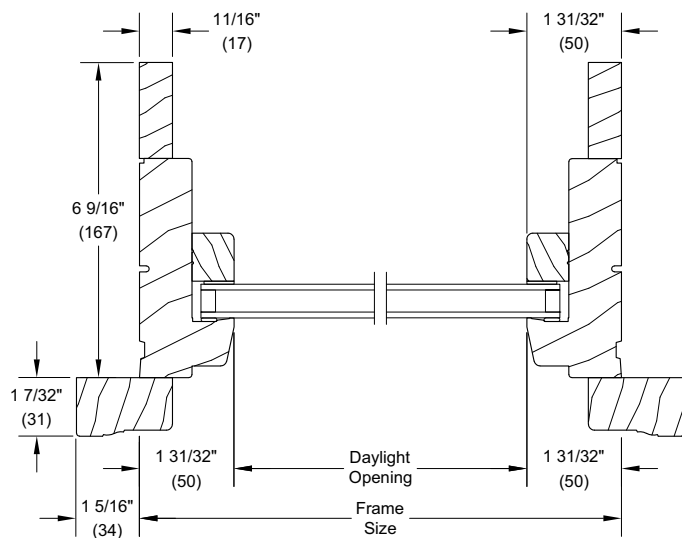
**Ultimate Direct Glaze  
4 9/16" Head Jamb**



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



**4 9/16" Side Jamb**



**Ultimate Direct Glaze Transom Jamb**