

# Ultimate Commercial Door

Unit Features .....	1
Standard Divided Lite Option .....	3
Optional Interior Square Simulated Divided Lite .....	4
Standard Unit Measurements: 1 3/4" and 2 1/4" Doors .....	5
Standard Unit Measurements: Direct Glaze and In-Sash Transoms .....	6
Minimum and Maximum Guidelines - Doors and In-Sash Transoms .....	7
Minimum and Maximum Guidelines - Direct Glaze Rectangle / Transoms .....	8
Net Clear Openings .....	9
Measurements Conversions .....	10
1 3/4" Commercial Section Details: Operating .....	12
1 3/4" Commercial Section Details: Stationary and Sidelite .....	13
1 3/4" Commercial Section Details: Panel Configurations .....	14
1 3/4" Commercial Section Details: Flat Panel Placement .....	15
1 3/4" Commercial Section Details: Raised Panel Placement .....	16
2 1/4" Commercial Section Details: Operating .....	17
2 1/4" Commercial Section Details: Stationary and Sidelite .....	18
2 1/4" Commercial Section Details: Panel Configurations .....	19
2 1/4" Commercial Section Details: Flat Panel Placement .....	20
2 1/4" Commercial Section Details: Raised Panel Placement .....	21
1 3/4" and 2 1/4" Commercial Section Details: In-Sash Transom .....	22
1 3/4" and 2 1/4" Commercial Section Details: Direct Glaze Transom .....	23



## Unit Features

Ultimate Commercial Door: UCD

Ultimate Commercial Door 2 1/4": UCD2.25

### 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: UCD: 1 3/4" (44) and UCD2.25: 2 1/4" (57).
- Top rail height:
  - UCD panel: 6" (152).
  - UCD2.25 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.
- UCD has 3/4" IG with removable interior vinyl glazing stops with clear wood covers, no visible fasteners.
- UCD2.25 has 1" IG with nailed on glazing stops.
- Dual-pane insulating glass thickness: 3/4" (UCD), 15/16" (UCD2.25)
- Triple-pane insulating glass thickness: 1 1/4" (UCD2.25)
- Insulating glass coatings:
  - Low E1
  - Low E2
  - Low E3
  - Low ERS
  - Low ELR
- Glass Type: Clear; Bronze; Gray; Reflective Bronze; Laminated;
- Decorative glass options: Sandblasted, Glue Chip, Rain, Frost, 1/2 English Reed.

## Unit Features

### 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).
- UCD panel: Three hinges per panel for units less than 85 9/16" (2173) high rough opening, four hinges per panel on doors with 85 9/16" or larger (2173) rough opening.
- UCD2.25 panel: Three hinges per panel up to 85 9/16" (2173) high. Four hinges per panel over 85 9/16" (2173), 5 hinges per panel on units over 95" (2413) high. If panel width is greater than 35 13/16" (910), door has 4 hinges.
- 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.

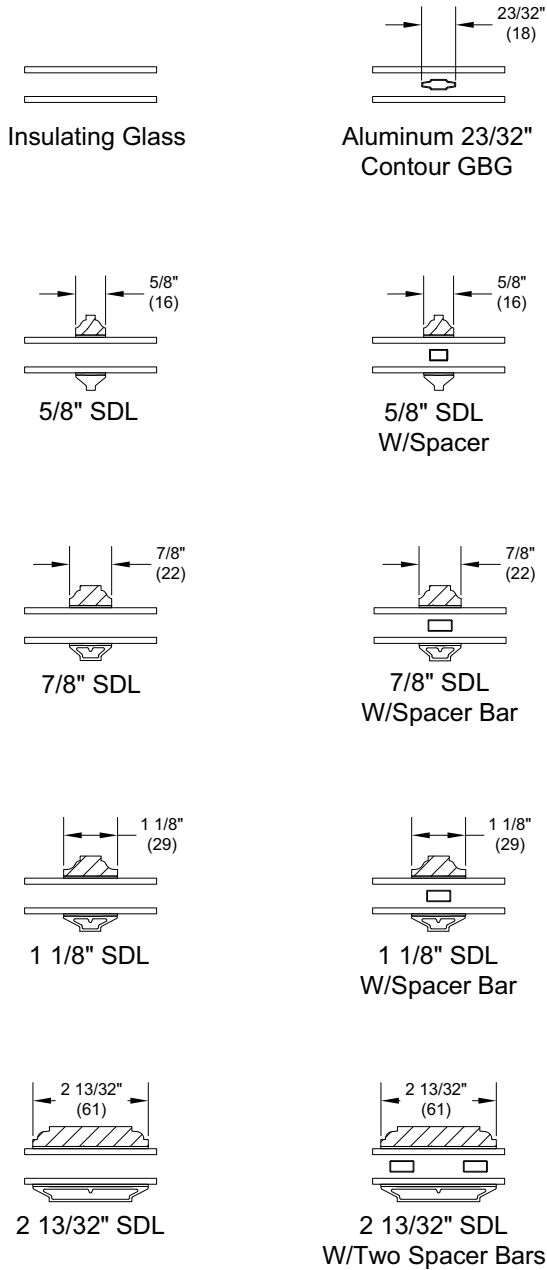
### Raised/Flat Panel Option:

- 6" (152) Intermediate rail is constructed of finger-joint, edge-glued pine, or laminated veneer lumber (LVL) core.
  - Raised or Flat Extira<sup>®</sup> panel constructed of medium density fiberboard (MDF) core with wood laminate veneer to interior.
  - Exterior Standard Stamped Raised Panel uses .080" (2) aluminum with foam backing.
- Two 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 and screws will be color matched to the panel clad color, for Custom Color clad the panel drips will be painted to match the panels but the screws will remain stainless steel.
- Sweep across panel bottom.
  - Optional: Bronze or Beige.

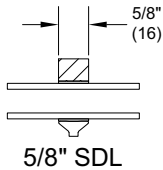
**Standard Divided Lite Option**



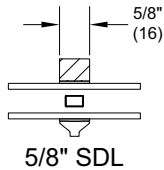
*NOTE: Due to the inherent qualities of tempered glass, daylight gaps may be seen when using simulated divided lite bars. Daylight gaps could be visible between the internal spacer bar and surface applied bars when viewing from an acute angle to the glass on the following applications:*

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

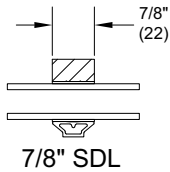
**Optional Interior Square Simulated Divided Lite**



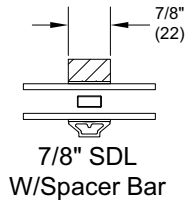
5/8" SDL



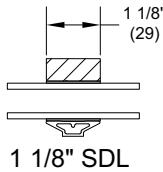
5/8" SDL  
W/Spacer



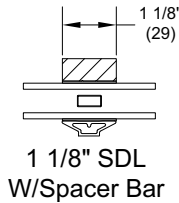
7/8" SDL



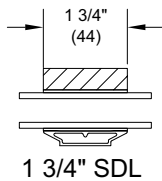
7/8" SDL  
W/Spacer Bar



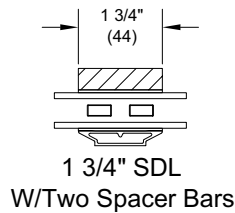
1 1/8" SDL



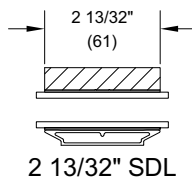
1 1/8" SDL  
W/Spacer Bar



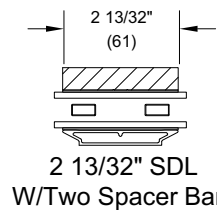
1 3/4" SDL



1 3/4" SDL  
W/Two Spacer Bars



2 13/32" SDL



2 13/32" SDL  
W/Two Spacer Bars

*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.

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

Standard 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	1-8 5/8	(524)	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	3-2 21/32	(982)	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	3-8 21/32	(1134)	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	6-2 43/64	(1897)	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	7-2 43/64	(2202)	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	7-1 5/16	(2167)	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	8-1 5/16	(2472)	8-1 9/16	(2478)	8-1 1/16	(2465)	7-11	(2413)	6-5 5/8	(1972)	6-6 15/16	(2005)
	9-0	9-1 5/16	(2777)	9-1 9/16	(2783)	9-1 1/16	(2770)	8-11	(2718)	7-5 5/8	(2276)	7-6 15/16	(2310)

Ultimate Commercial Door (2 1/4") 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	1-8 5/8	(524)	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	3-2 21/32	(982)	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	3-8 21/32	(1134)	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	4-2 21/32	(1287)	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	6-2 43/64	(1897)	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	7-2 43/64	(2202)	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	8-2 43/64	(2506)	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	7-1 5/16	(2167)	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	8-1 5/16	(2472)	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	10-1 5/16	(3081)	10-1 9/16	(3088)	10-1 1/16	(3075)	9-11	(3023)	8-3 31/64	(2527)	8-4 51/64	(2560)

Standard Unit Measurements: Direct Glaze and In-Sash Transoms

Direct Glaze Commercial Door 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 Commercial Door Transom	3-0	3-2 11/16	(982)	3-3 3/16	(995)	3-2 3/16	(969)	2-10 7/32	(869)	35 19/32	(904)
	3-6	3-8 11/16	(1134)	3-9 3/16	(1147)	3-8 3/16	(1122)	3-4 7/32	(1022)	41 19/32	(1057)
	4-0	4-2 11/16	(1287)	4-3 3/16	(1299)	4-2 3/16	(1274)	3-10 7/32	(1174)	47 19/32	(1209)
	6-0	6-2 11/16	(1897)	6-3 3/16	(1909)	6-2 3/16	(1884)	5-10 1/4	(1784)	71 5/8	(1819)
	7-0	7-2 11/16	(2202)	7-3 3/16	(2214)	7-2 3/16	(2189)	6-10 1/4	(2089)	83 5/8	(2124)
	8-0	8-2 11/16	(2506)	8-3 3/16	(2519)	8-2 3/16	(2494)	7-10 1/4	(2394)	95 5/8	(2429)
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	1-0 1/4	(311)	1-0 1/2	(318)	1-0	(305)	0-8 1/16	(205)	9 7/16	0-9 7/16
	1-2	1-2 1/4	(362)	1-2 1/2	(368)	1-2	(356)	0-10 1/16	(256)	11 7/16	0-11 7/16
	1-6	1-6 1/4	(464)	1-6 1/2	(470)	1-6	(457)	1-2 1/16	(357)	15 7/16	1-3 7/16

Standard Measurements for 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	3-2 21/32	(982)	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	3-8 21/32	(1134)	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	4-2 21/32	(1287)	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	6-2 43/64	(1897)	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	7-2 43/64	(2202)	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	8-2 43/64	(2506)	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	1-6 1/4	(464)	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	2-0 1/4	(616)	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	2-6 1/4	(768)	2-6 1/2	(775)	2-6	(762)	2-3 5/16	(694)	1-9 5/16	(541)	1-10 5/8	(575)



**Minimum and Maximum Guidelines - Doors and In-Sash Transoms**

Minimum and Maximum Guidelines for 1 3/4" Door												
Unit Type	Min Frame Size Unit				Max Frame Size Unit				Extended Frame Size Unit			
	Width		Height		Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Sidelite	14 1/16	(357)	24 1/8	(613)	20 1/8	(511)	97 1/16	(2465)	53 15/32	(1358)	112 9/16	(2859)
1 - Panel Stationary	20 9/32	(515)	24 1/8	(613)	44 3/16	(1122)	109 1/16	(2770)	56 15/32	(1434)	112 9/16	(2859)
1 - Panel Operator	20 9/32	(515)	40 1/16	(1018)	44 3/16	(1122)	109 1/16	(2770)	50 11/32	(1279)	112 9/16	(2859)
2 - Panel Stationary	38 27/64	(976)	24 1/8	(613)	86 3/16	(2189)	109 1/16	(2770)	104 51/64	(2662)	112 9/16	(2859)
2 - Panel Operator	38 27/64	(976)	40 1/16	(1018)	86 3/16	(2189)	109 1/16	(2770)	98 35/64	(2503)	112 9/16	(2859)

Minimum and Maximum Guidelines for 2 1/4" Door												
Unit Type	Min Frame Size Unit				Max Frame Size Unit				Extended Frame Size Unit			
	Width		Height		Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Sidelite	14 1/16	(357)	26 17/64	(667)	20 1/8	(511)	121 1/16	(3075)	57 11/32	(1457)	121 1/16	(3075)
1 - Panel Stationary	20 9/32	(515)	26 17/64	(667)	50 3/16	(1275)	121 1/16	(3075)	57 11/32	(1457)	121 1/16	(3075)
1 - Panel Operator	20 9/32	(515)	40 1/16	(1018)	50 3/16	(1275)	121 1/16	(3075)	50 11/32	(1279)	121 1/16	(3075)
2 - Panel Stationary	38 27/64	(976)	26 17/64	(667)	98 3/16	(2494)	97 1/16	(2465)	112 35/64	(2859)	121 1/16	(3075)
2 - Panel Operator	38 27/64	(976)	40 1/16	(1018)	98 3/16	(2494)	121 1/16	(3075)	98 35/64	(2503)	121 1/16	(3075)

NOTE: 1 3/4" - Maximum Square Footage 25 (635) Sq. ft of Glass per Panel.

2 1/4" - Maximum Square Footage 60.99 (1773) Sq. ft of Glass Per Panel

Minimum and Maximum Guidelines for Transom												
Unit Type	Min Frame Size Unit				Max Frame Size Unit				Extended Frame Size Unit			
	Width		Height		Width		Height		Width		Height	
	in	mm	in	mm	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)	98 11/64	(2494)	50 11/16	(1287)
1 Frame 2 Sash	38 27/64	(976)	11 3/8	(289)	86 3/16	(2189)	30	(762)	191	(4851)	50 11/16	(1287)

**Minimum and Maximum Guidelines - Direct Glaze Rectangle / Transoms**

Minimum Guidelines - Ultimate Direct Glaze Transoms				
Unit Type	Min Width		Min Height	
	in	mm	in	mm
Single Glaze	9 7/16	(240)	8 15/16	(227)
Insulating Glass	9 7/16	(240)	8 15/16	(227)

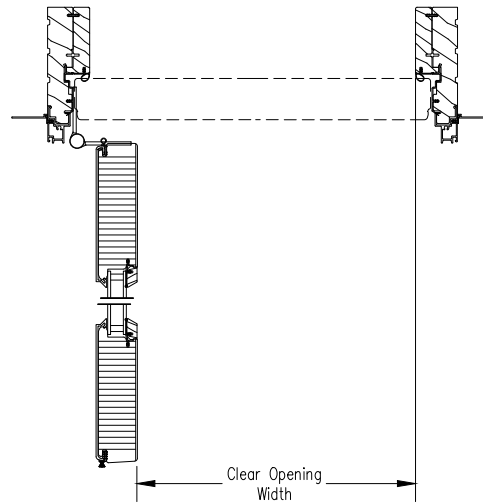
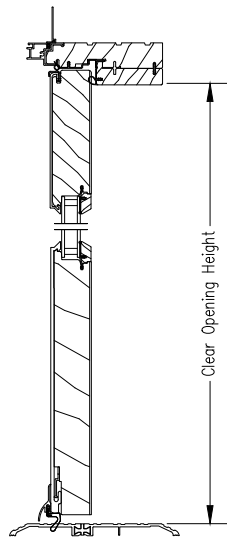
Maximum Guidelines - Ultimate Direct Glaze Rectangles / Transoms				
Unit Type	Max Width		Max Height	
	in	mm	in	mm
Single Glaze	<b>Certified Frame Size</b>			
	84	(2134)	87	(2210)
	75	(1905)	97	(2464)
	87	(2210)	84	(2134)
	97	(2464)	75	(1905)
	<b>Non-Certified Frame Size</b>			
	145 9/16	(3697)	53 7/8	(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 Frame Size</b>			
	84	(2134)	97	(2464)
	97	(2464)	84	(2134)
	<b>Non-Certified Frame Size</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 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)
	9-0	8-10 13/16	(2713)

Net Clear Opening Ultimate 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	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)		+ 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)

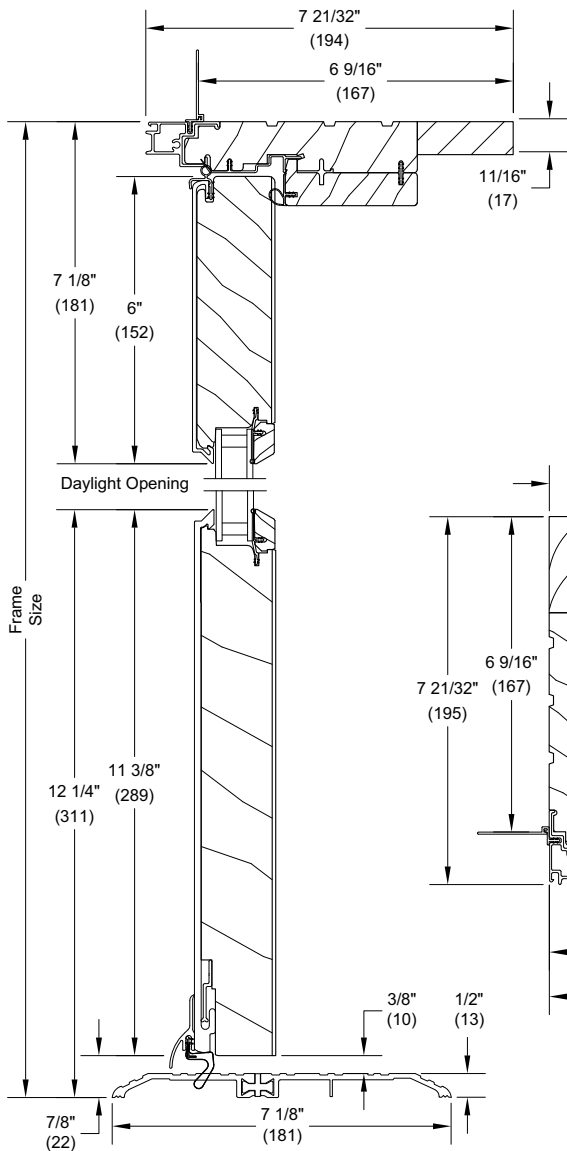
NOTE: The Direct Glaze Door Transom Conversions are covered in the [Direct Glaze Polygon and Round Top Chapter](#)

**Measurements Conversions**

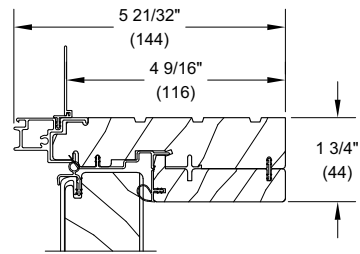
In-Sash Transom Unit Measurements		Width			Height	
From	To	in	mm		in	mm
<b>Rough Opening</b>		<b>in</b>	<b>mm</b>		<b>in</b>	<b>mm</b>
OM of Frame	Rough Opening	+ 1	(25)		+ 1/2	(13)
Masonry Opening	Rough Opening	+ 1/2	(13)		+ 1/4	(06)
Masonry Opening w/BMC	Rough Opening	-2 1/8	(54)		-1 1/16	(27)
Masonry Opening w/Flat Casing	Rough Opening	-5 1/2	(140)		-2 3/4	(70)
<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	-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**

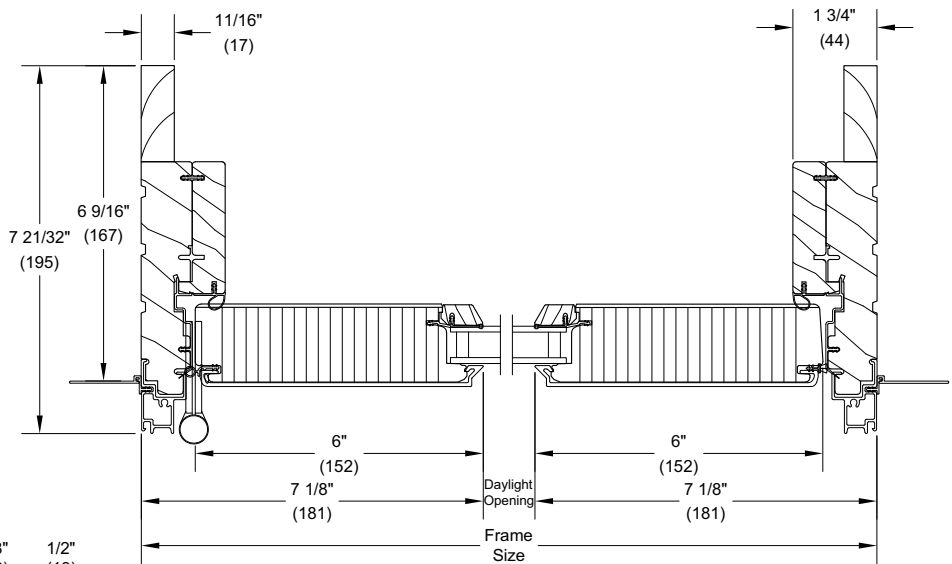
Scale: 3" = 1' 0"



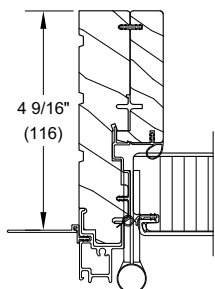
Head Jamb and Sill



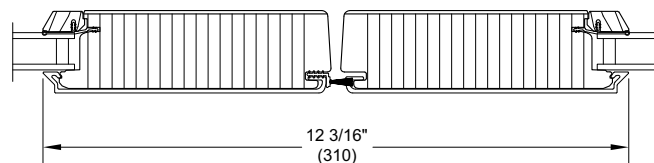
4 9/16" Head Jamb



X - LHR - Jamb



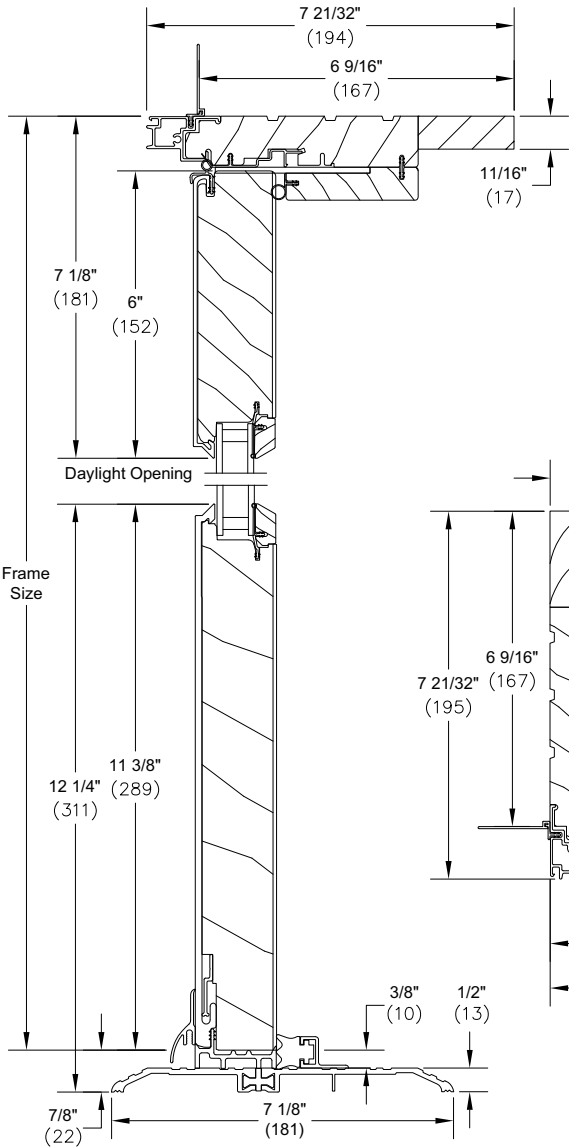
4 9/16" Jamb



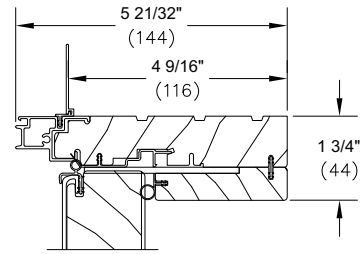
XX - Meeting Stiles

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

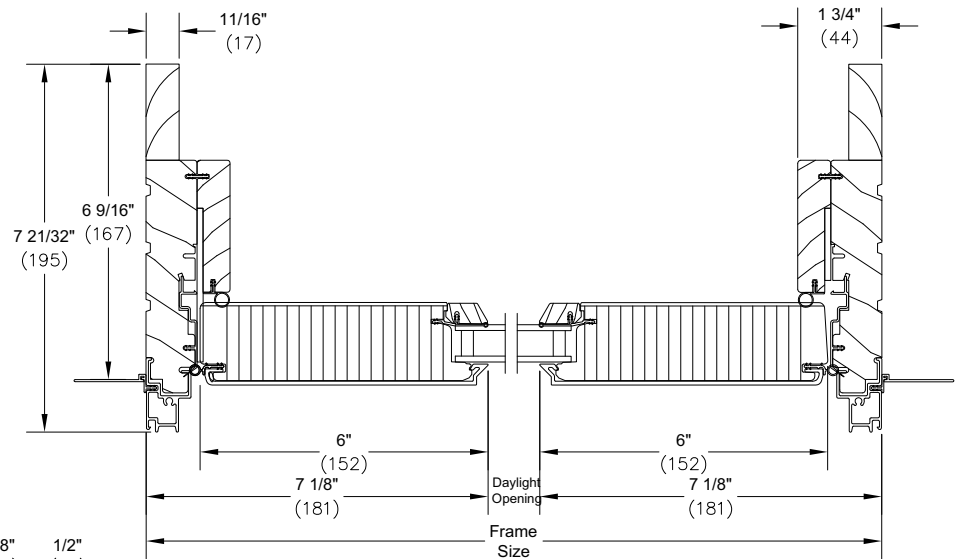
Scale: 3" = 1' 0"



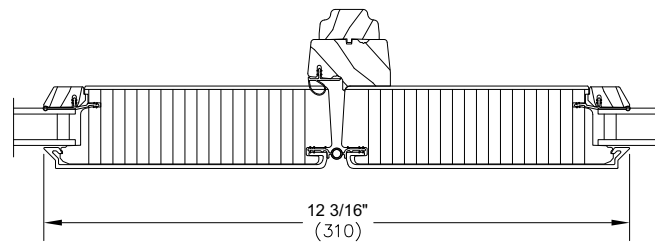
**Head Jamb and Sill**



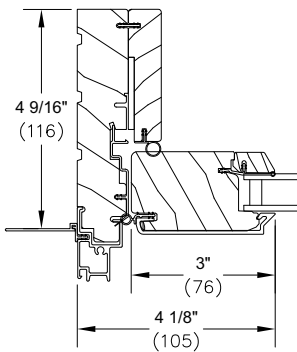
**4 9/16" Head Jamb**



**O - Jamb**



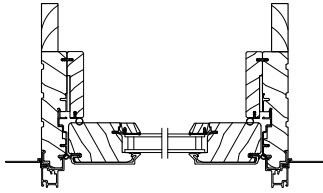
**OO Meeting Stiles**



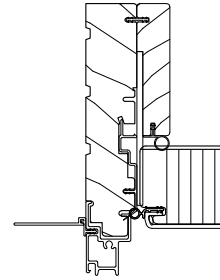
**O - Jamb 3" Stile**

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

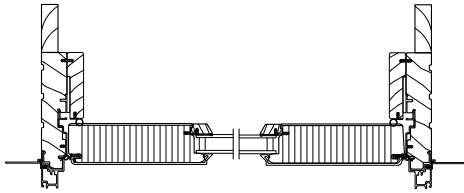
Scale: 1 1/2" = 1'



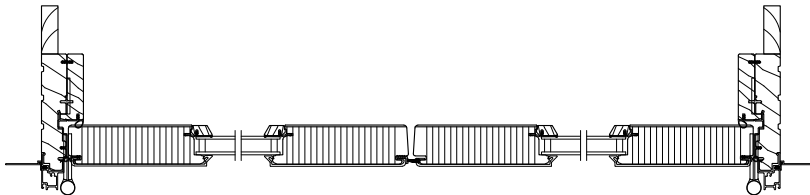
Sidelite Jamb



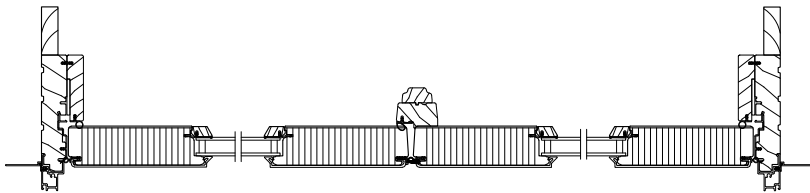
4 9/16\" - Jamb  
Scale: 3\" = 1'-0\"



O Jamb



XX - RHRA Jamb

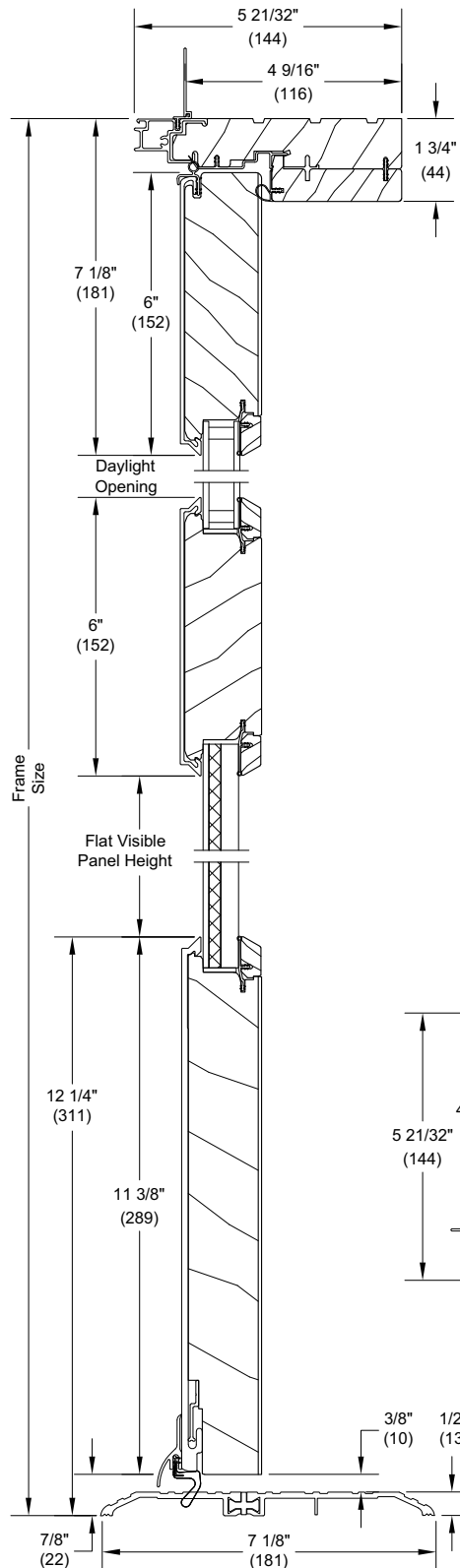


OO Jamb



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

Scale: 3" = 1' 0"



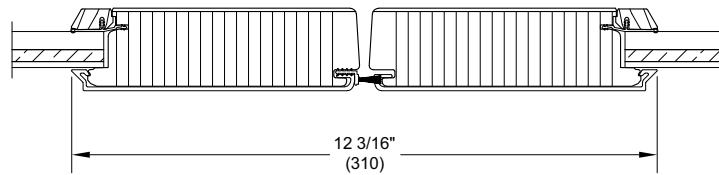
**Head Jamb and Sill**

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

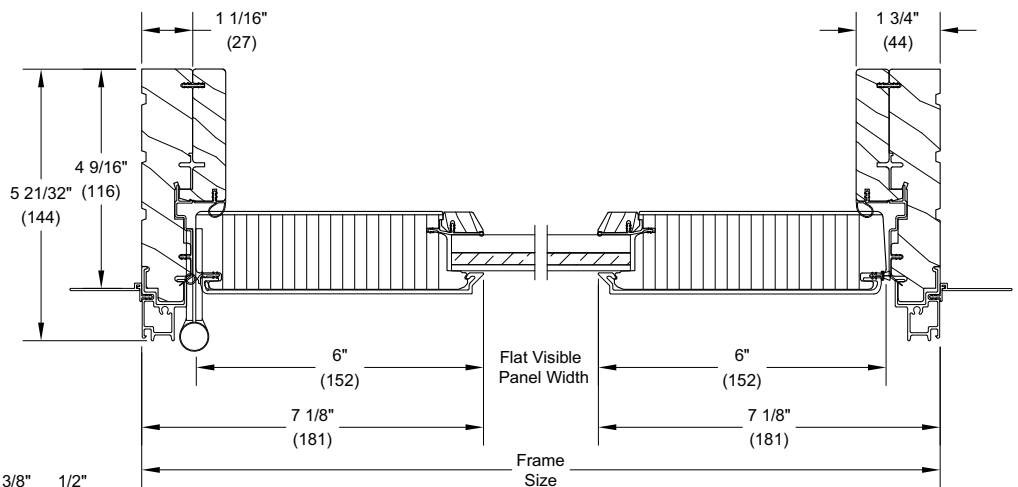
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



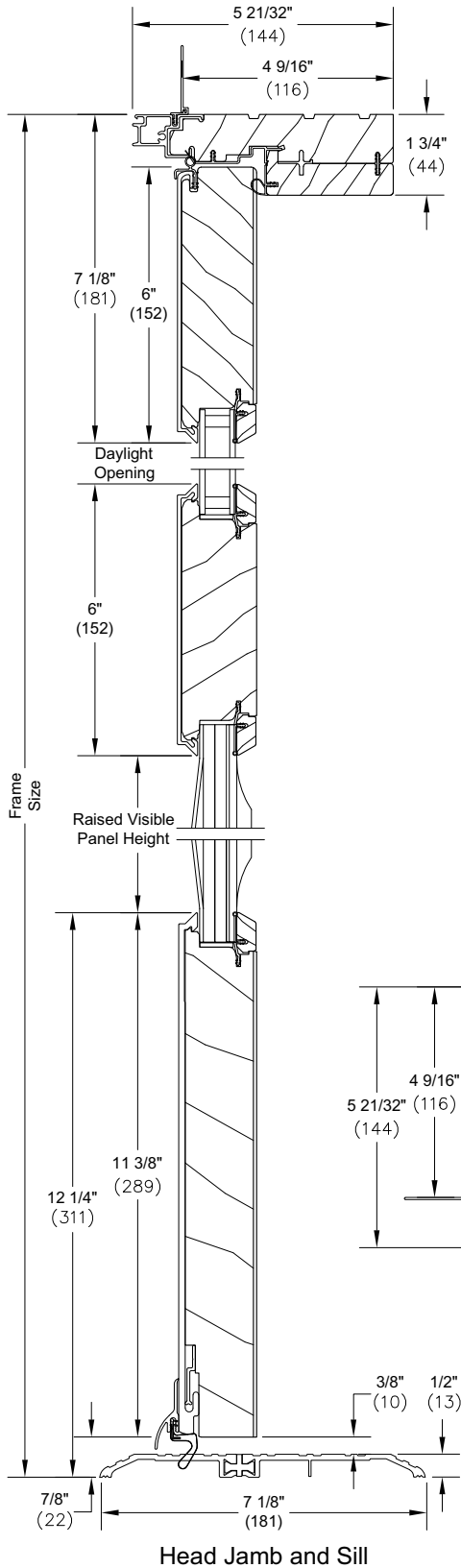
**XX - Meeting Stiles**



**X - LHR - Jamb**

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

Scale: 3" = 1' 0"

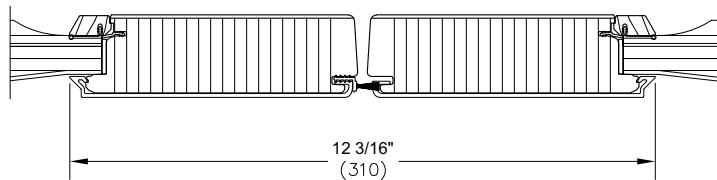


**Raised Panel - Standard Configuration / Low Placement**

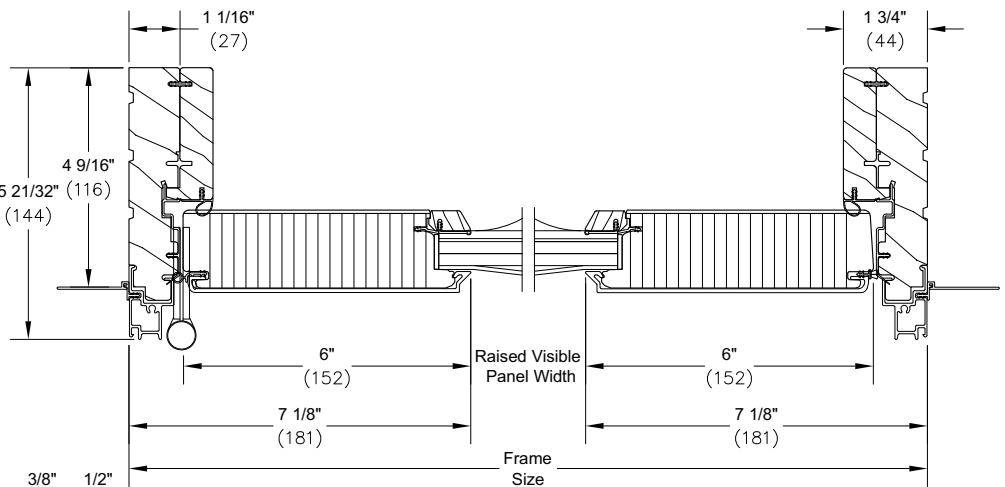
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



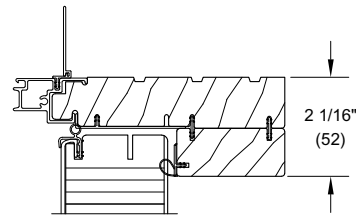
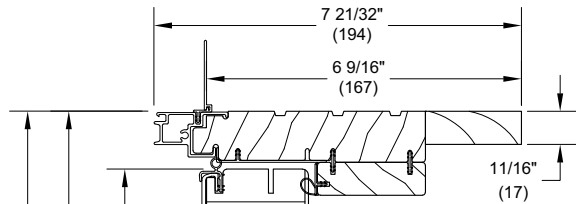
**XX - Meeting Stiles**



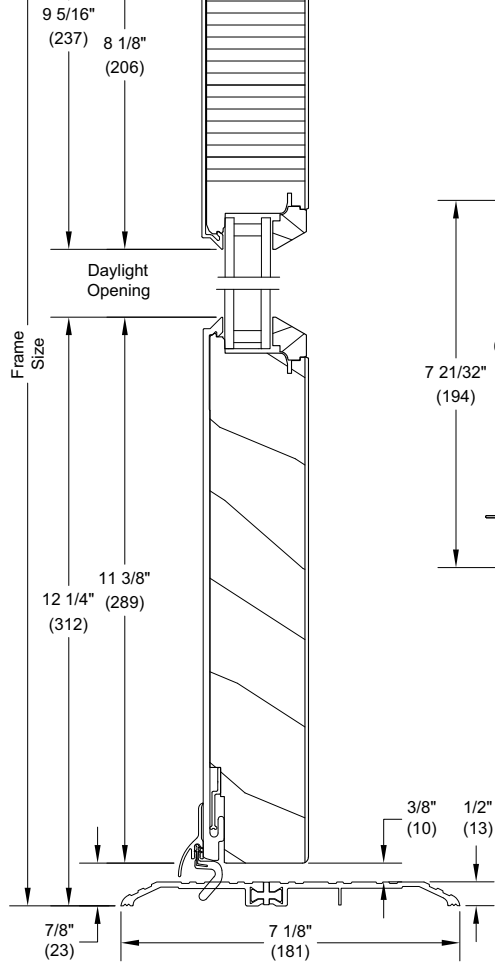
**X - LHR - Jamb**

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

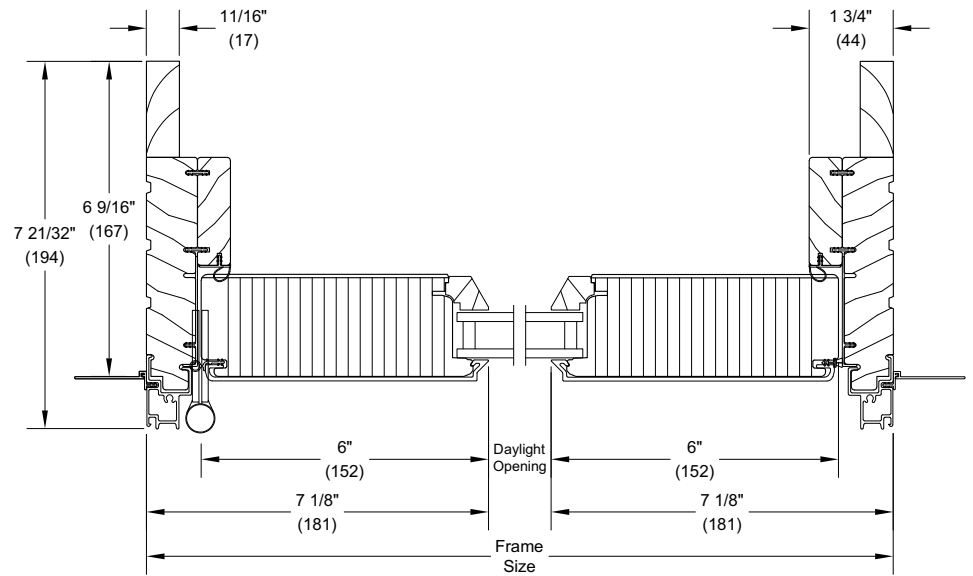
Scale: 3" = 1' 0"



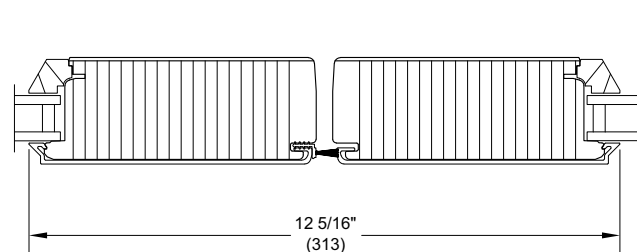
Head Jamb with Von Duprin 5547 Hardware Prep



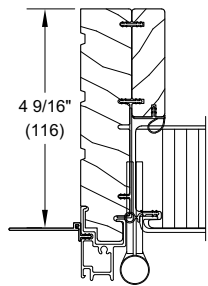
Head Jamb and Sill



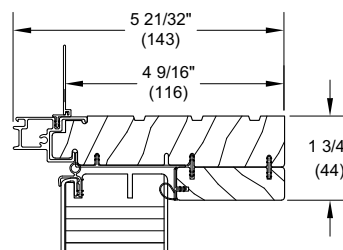
X - LHR - Jamb



XX - Meeting Stiles



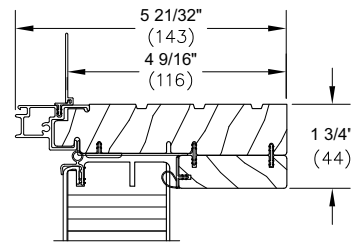
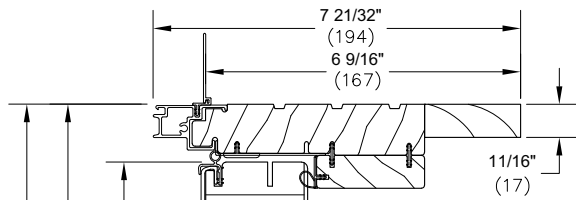
4 9/16" Jamb



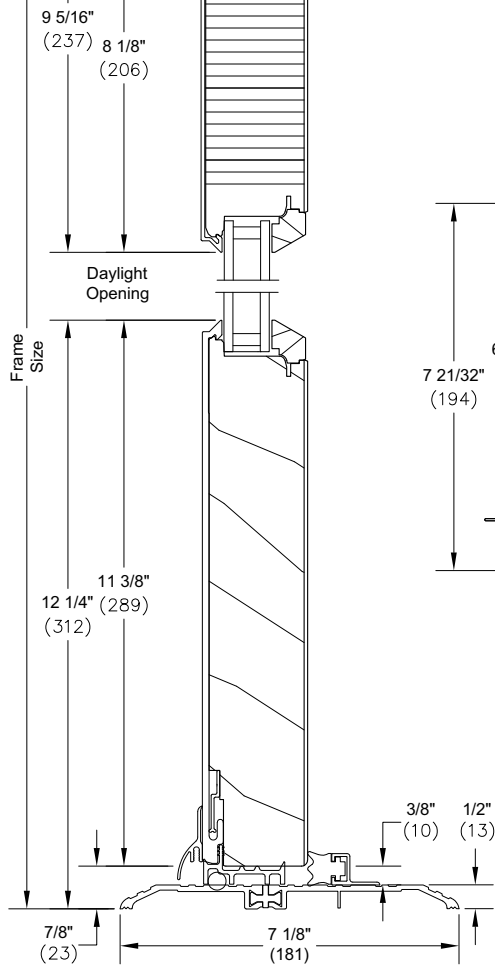
4 9/16" Head Jamb

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

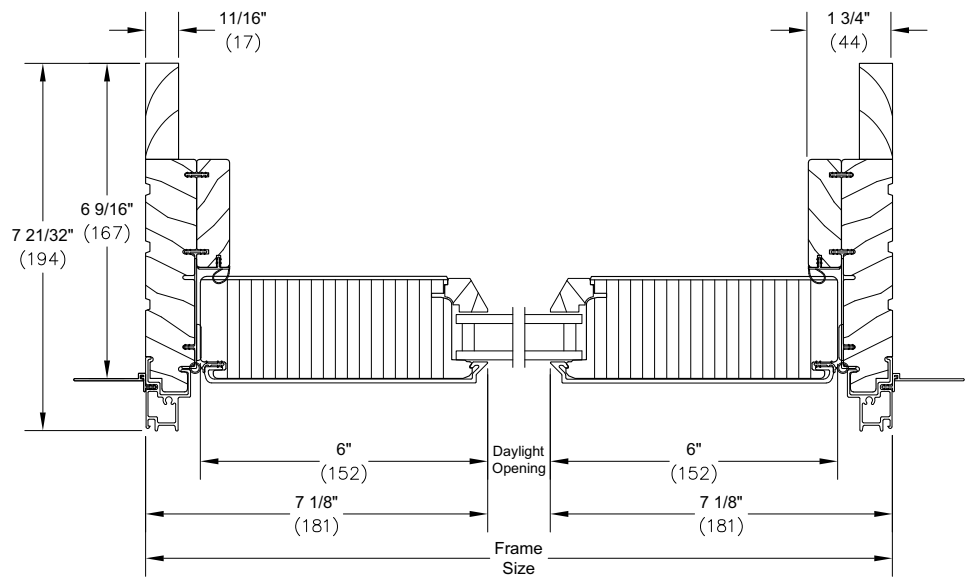
Scale: 3" = 1' 0"



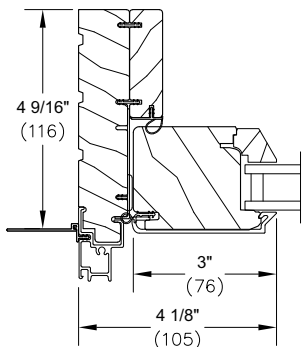
**4 9/16" Head Jamb**



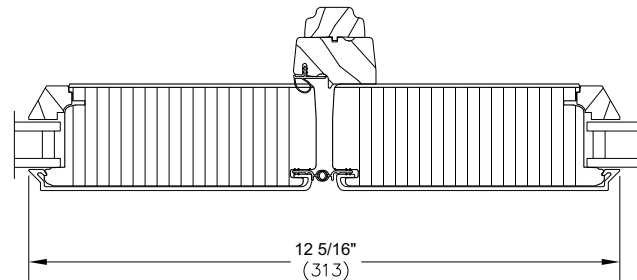
**Head Jamb and Sill**



**O - Jamb**



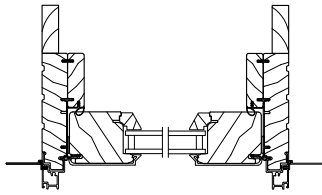
**O - Jamb 3" Stile**



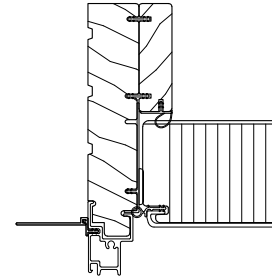
**OO - Meeting Stiles**

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

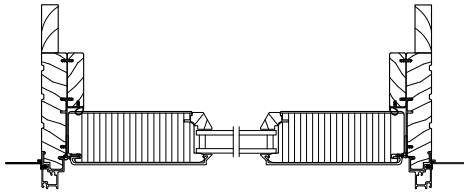
Scale: 1 1/2" = 1'



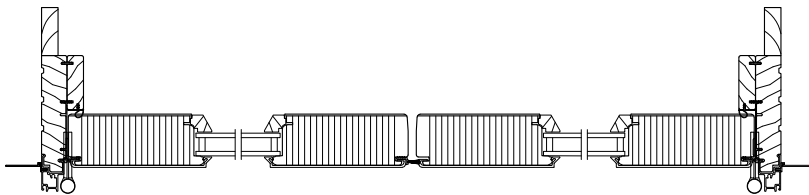
Sidelite Jamb



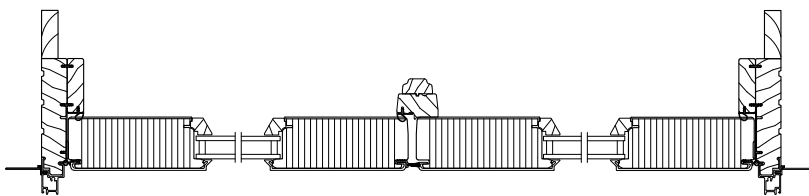
4 9/16" - Jamb  
Scale: 3" = 1'-0"



O Jamb



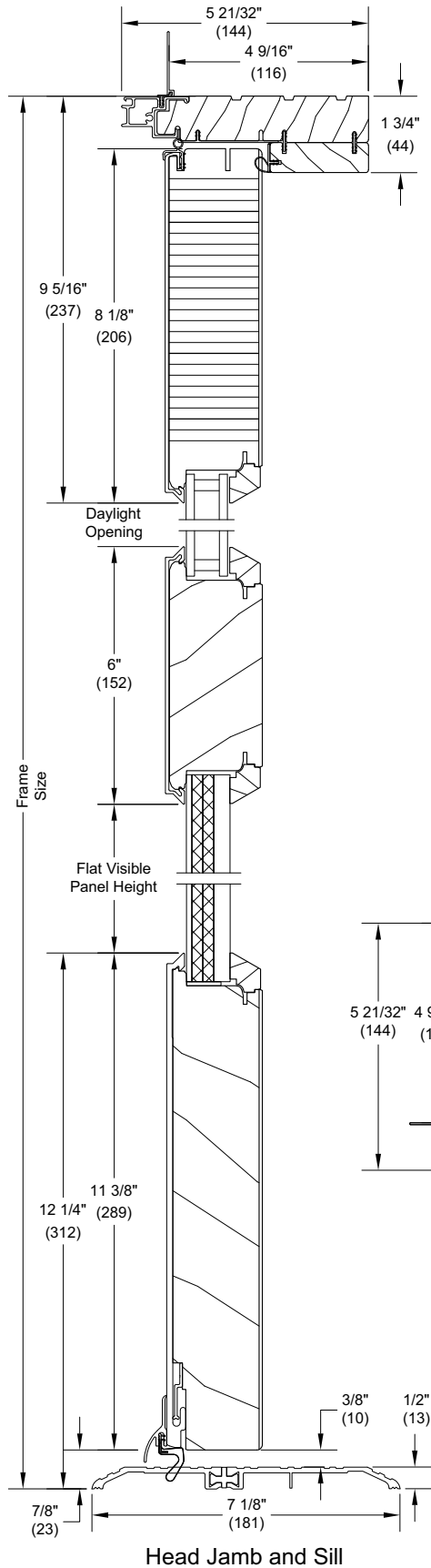
XX - RHRA Jamb



OO Jamb

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

Scale: 3" = 1' 0"



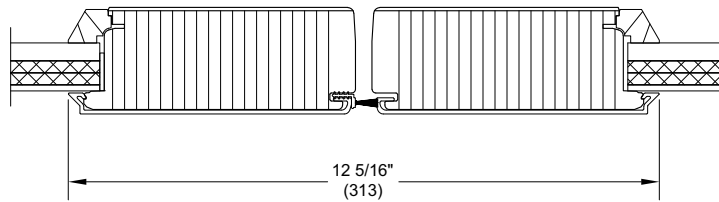
**Head Jamb and Sill**

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

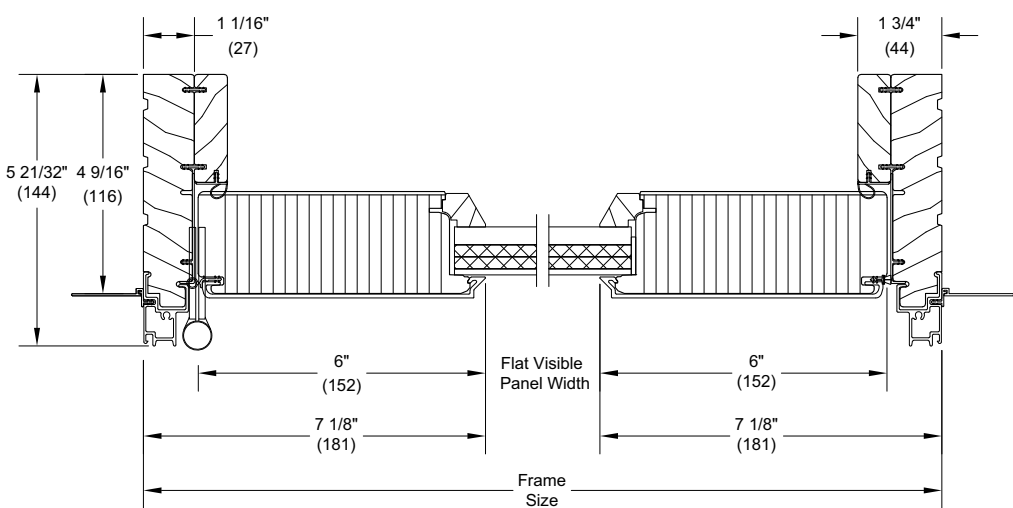
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

**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.



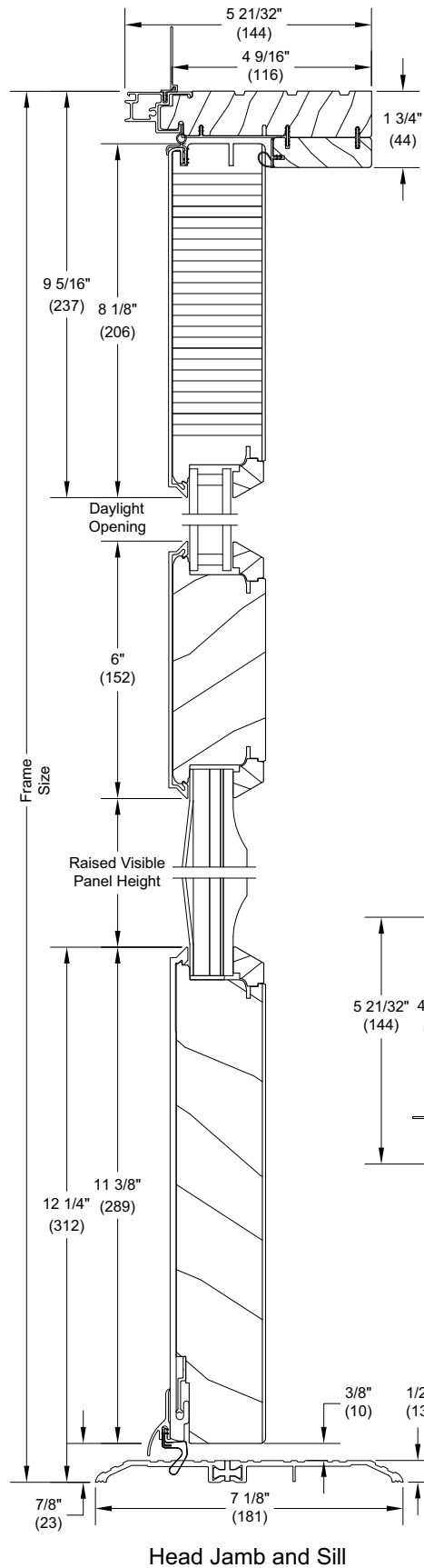
**XX - Meeting Stiles**



**X - LHR - Jamb**

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

Scale: 3" = 1' 0"



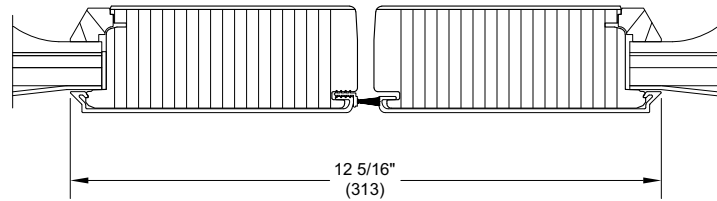
**Head Jamb and Sill**

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

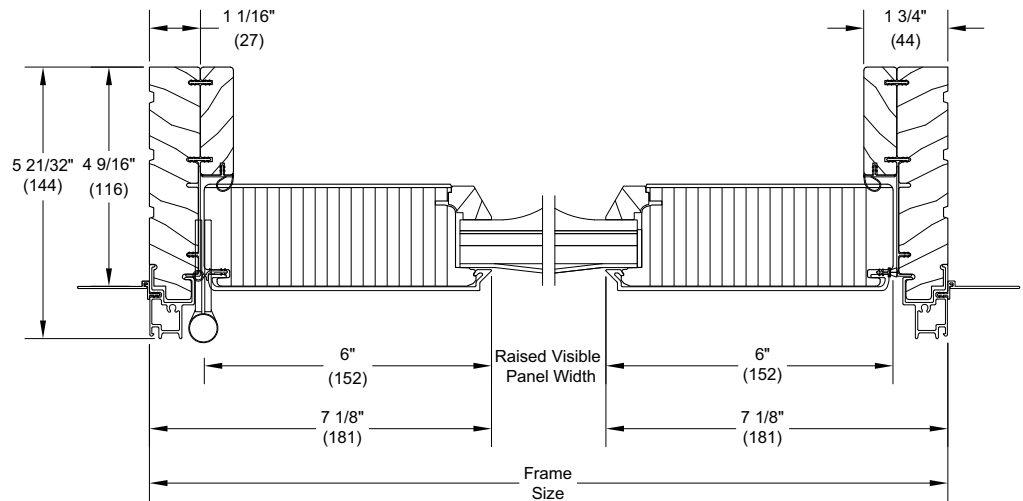
6" intermediate rail placed 26" (660) O.C. from bottom of the door sill with 10 13/16" (275) visible panel height.

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

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



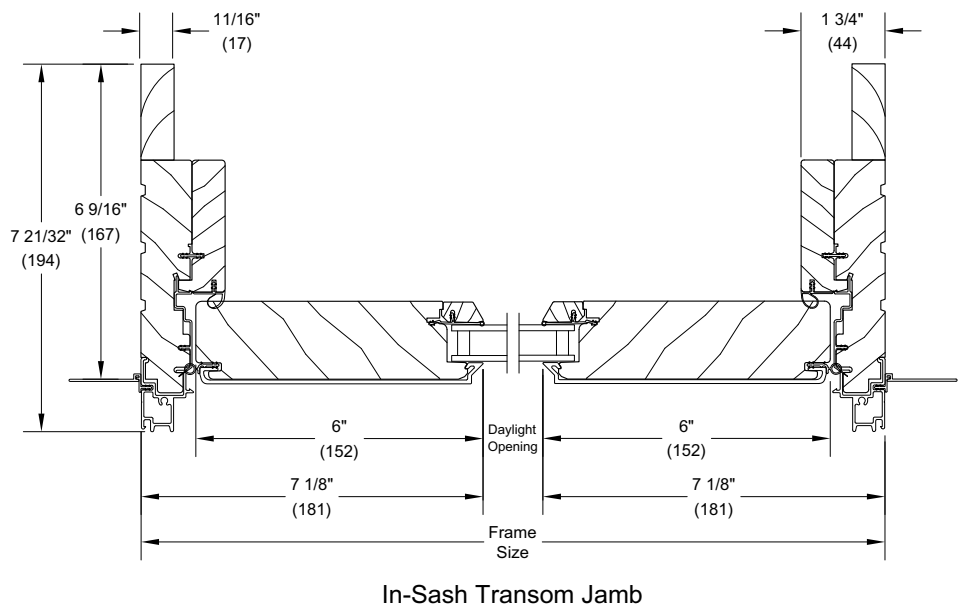
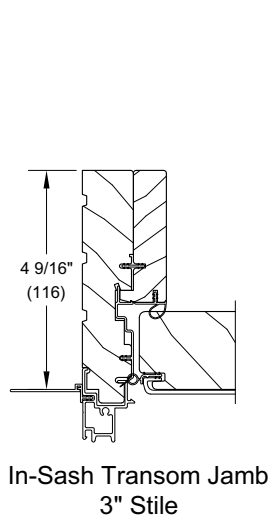
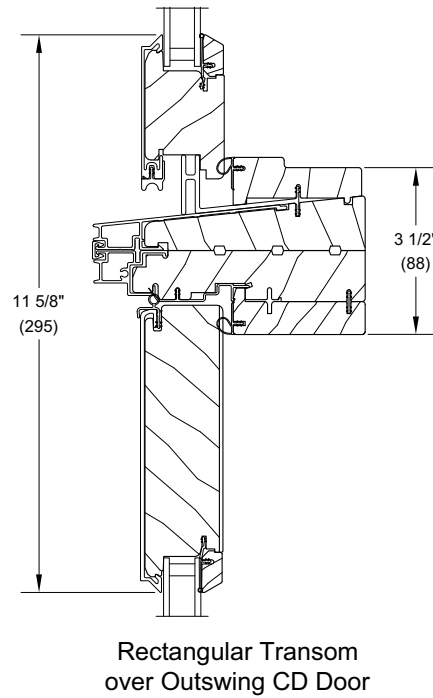
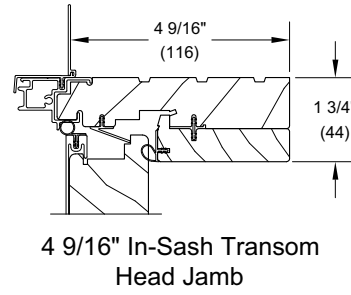
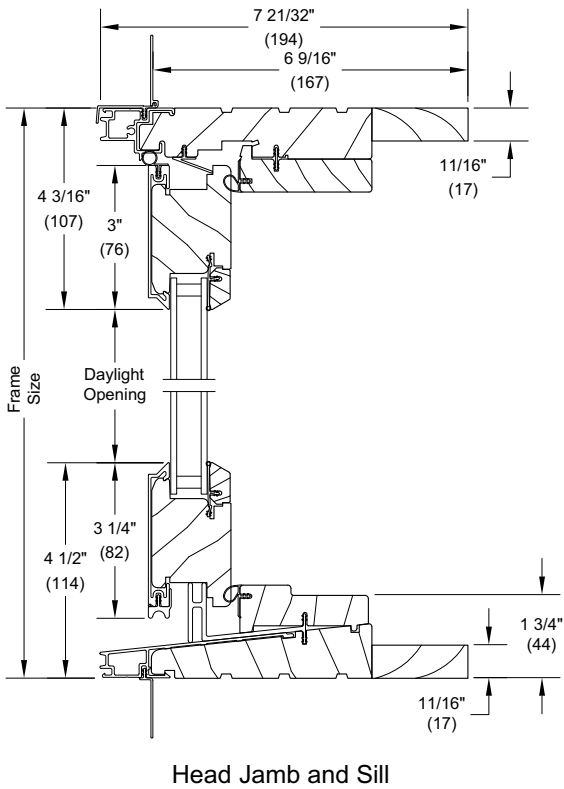
**XX - Meeting Stiles**



**X - LHR - Jamb**

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

Scale: 3" = 1' 0"





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

Scale: 3" = 1' 0"

