

# Ultimate Swinging French Doors 2 1/4"

Standard Unit Measurements.....	1
Inswing and Outswing Certified Sizes and Ratings.....	2
Minimum and Maximum Guidelines: Doors and Interior Shades.....	3
Measurement Conversions.....	4
Net Clear Openings: Inswing.....	5
Net Clear Openings: Outswing.....	6
Net Clear Openings: Outswing w/ Interior Shade.....	7
Inswing Section Details: Operating.....	8
Inswing Section Details: Stationary and Sidelite.....	9
Inswing Section Details: Panel Configurations.....	10
Inswing Section Details: Ultimate Swinging Screen.....	11
Inswing Section Details: Casing Options.....	12
Inswing Section Details: Flat Panel Placement.....	13
Inswing Section Details: Raised Panel Placement.....	14
Inswing Section Details: Interior Shade.....	15
Outswing Section Details: Operating.....	16
Outswing Section Details: StormPlus IZ3 / IZ4.....	17
Outswing Section Details: Stationary and Sidelite.....	18
Outswing Section Details: Panel Configurations.....	19
Outswing Section Details: Clad Casing Options.....	20
Outswing Section Details: Flat Panel Placement.....	21
Outswing Section Details: Raised Panel Placement.....	22
Outswing Section Details: Interior Shade.....	23



Standard Unit Measurements

Standard Inswing and Outswing 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
1 Panel	2-6	2-7	15/16 (811)	2-8	7/16 (824)	2-7	7/16 (799)	2-5	1/16 (738)	1-5	3/32 (434)	1-6	13/32 (468)
	2-8	2-9	15/16 (862)	2-10	7/16 (875)	2-9	7/16 (849)	2-7	1/16 (789)	1-7	3/32 (485)	1-8	13/32 (518)
	3-0	3-1	15/16 (964)	3-2	7/16 (976)	3-1	7/16 (951)	2-11	1/16 (891)	1-11	3/32 (587)	2-0	13/32 (620)
2 Panel	5-0	5-1	1/8 (1553)	5-1	5/8 (1565)	5-0	5/8 (1540)	2-5	1/16 (738)	1-5	3/32 (434)	1-6	13/32 (468)
	5-4	5-5	1/8 (1654)	5-5	5/8 (1667)	5-4	5/8 (1641)	2-7	1/16 (789)	1-7	3/32 (485)	1-8	13/32 (518)
	6-0	6-1	1/8 (1857)	6-1	5/8 (1870)	6-0	5/8 (1845)	2-11	1/16 (891)	1-11	3/32 (587)	2-0	13/32 (620)
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	8-0	7-11	3/4 (2432)	8-0	(2438)	7-11	1/2 (2426)	7-8	1/2 (2350)	6-6	3/8 (1991)	6-7	11/16 (2024)
	10-0	9-11	3/4 (3042)	10-0	(3048)	9-11	1/2 (3035)	9-8	1/2 (2959)	8-6	3/8 (2600)	8-7	11/16 (2634)

**Inswing and Outswing Certified Sizes and Ratings**
**Inswing Doors**

Product	Air Tested to psf	Water Tested to psf	Structural Tested to psf	Certification Testing	Design Pressure (DP)	Overall Width		Overall Height		# of Panels
						in	mm	in	mm	
Ultimate Inswing French Door 2 1/4inch Door 30100 (O)	1.57	8.25	+82.5/-97.5	LC-PG55-FD	+55/-65	37 7/16	(951)	119 1/2	(3035)	1
Ultimate Inswing French Door 2 1/4inch 60100 (XX)	1.57	8.25	+82.5/-97.5	LC-PG55-FD	+55/-65	72 5/8	(1845)	119 1/2	(3035)	2
Ultimate Inswing French Door 2 1/4inch IZ3 30100 (O)	1.57	8.25	+82.5/-97.5	LC-PG55-FD	+55/-65	37 7/16	(951)	119 1/2	(3035)	1
Ultimate Inswing French Door 2 1/4inch IZ3 60100 (XX)	1.57	8.25	+82.5/-97.5	LC-PG55-FD	+55/-65	72 5/8	(1845)	119 1/2	(3035)	2

**Outswing Doors**

Product	Air Tested to psf	Water Tested to psf	Structural Tested to psf	Certification Rating	Design Pressure (DP)	Overall Width		Overall Height		# of Panels
						in	mm	in	mm	
Ultimate Outswing French Door 2 1/4inch 30100 (O)	1.57	8.25	+82.5/-97.5	LC-PG55-FD	+55/-65	37 7/16	(951)	119 1/2	(3035)	1
Ultimate Outswing French Door 2 1/4inch 60100 (XX)	1.57	8.25	+82.5/-97.5	LC-PG55-SHD	+55/-65	72 5/8	(1845)	119 1/2	(3035)	2
Ultimate Outswing French Door 2 1/4inch IZ3 30100 (O)	1.57	8.25	+82.5/-97.5	LC-PG55-FD	+55/-65	37 7/16	(951)	119 1/2	(3035)	1
Ultimate Outswing French Door 2 1/4inch IZ3 60100 (XX)	1.57	8.25	+82.5/-97.5	LC-PG55-SHD	+55/-65	72 5/8	(1845)	119 1/2	(3035)	2
Ultimate Outswing French Door 2 1/4inch IZ4 30100 (O)	1.57	9.75	+97.5/-102.5	LC-PG65-SHD	+65/-70	37 7/16	(951)	119 1/2	(3035)	1
Ultimate Outswing French Door 2 1/4inch IZ4 60100 (XX)	1.57	9.75	+97.5/-102.5	LC-PG65-FD	+65/-70	72 5/8	(1845)	119 1/2	(3035)	2

NOTE: Maximum height for IZ3 and IZ4 Doors with Low E1, ERS, ELR, Special SDLS, GBG is 115 7/8" (2966).

For CE ratings, please refer to CE Performance chapter.

**Minimum and Maximum Guidelines: Doors and Interior Shades**

Door Minimum and Maximum Frame Size - Certified								
Unit Configurations	Min Width		Min Height		Max Width		Max Height	
	in	mm	in	mm	in	mm	in	mm
1 - Panel Stationary	20 5/16	(516)	25 1/8	(638)	37 7/16	(951)	119 1/2	(3035)
1 - Panel Operator	20 5/16	(516)	70 5/16	(1786)	37 7/16	(951)	119 1/2	(3035)
2 - Panel Operator	38 3/8	(975)	70 5/16	(1786)	72 5/8	(1845)	119 1/2	(3035)

Interior Shade Minimum and Maximum Daylight Opening								
Unit Type	Min DLO				Max DLO			
	Width		Height		Width		Height	
	in	mm	in	mm	in	mm	in	mm
Door Panel	11 1/2	(292)	8	(203)	72 25/32	(1849)	102 3/8	(2600)

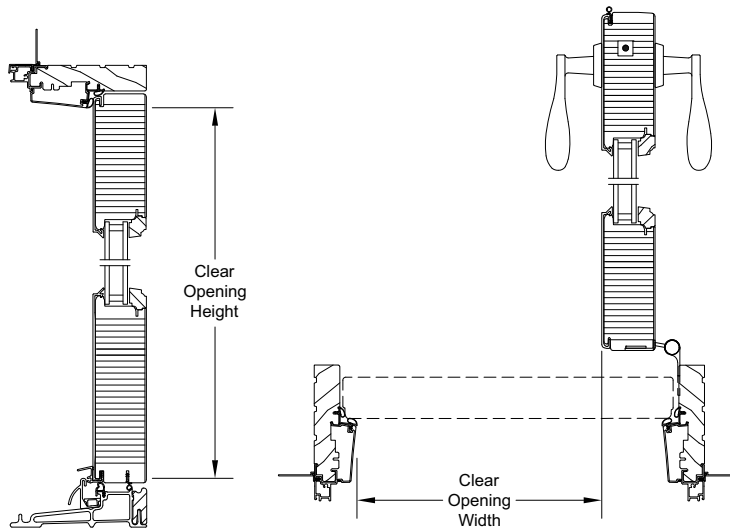
Door Minimum and Maximum Frame Size - Extended Sizes				
Unit Configurations	Max Width		Max Height	
	in	mm	in	mm
1 - Panel Stationary	57 3/8	(1457)	119 1/2	(3035)
1 - Panel Operator	50 3/8	(1280)	119 1/2	(3035)
2 - Panel Operator	98 1/2	(2502)	119 1/2	(3035)

**Measurement Conversions**

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>Operating Panel</b>		<b>in</b>	<b>mm</b>		<b>in</b>	<b>mm</b>
OM of Frame	OM of Panel (x1)	-2 3/8	(60)		-3	(76)
OM of Frame	OM of Panel (x2)	-2 1/2	(64)	÷ 2	-3	(76)
Daylight Opening	OM of Panel	+ 11 31/32	(304)		+ 14 1/8	(359)
<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)
<b>Interior Shade</b>		<b>in</b>	<b>mm</b>		<b>in</b>	<b>mm</b>
Daylight Opening	Surround Size	+ 2 3/4	(70)		+ 2 15/16	(75)

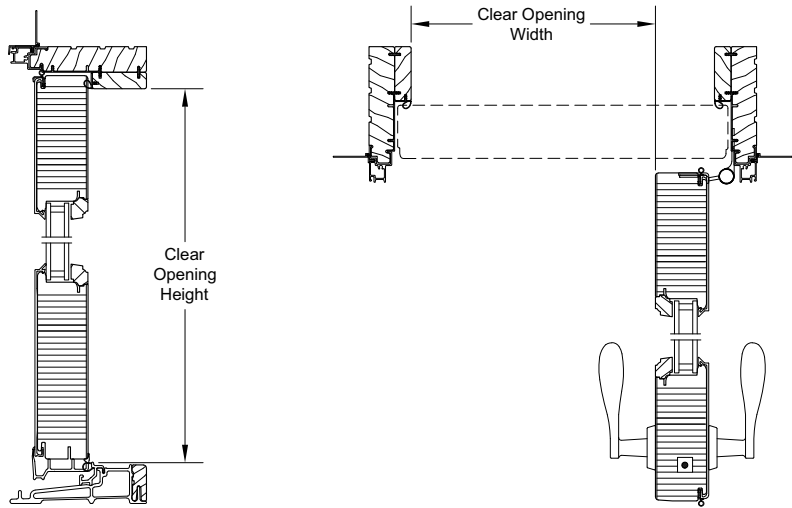
**Net Clear Openings: Inswing**

Net Clear Opening Ultimate Outswing French Door 2 1/4"			
Width			
Unit Type	Call Number	Net Clear Openings	
		ft-in	mm
1 Panel Operator	2-6	2-1 15/32	(647)
	2-8	2-3 15/32	(698)
	3-0	2-7 15/32	(799)
2 Panel Operator	5-0	4-4 3/16	(1325)
	5-4	4-8 3/16	(1427)
	6-0	5-4 3/16	(1630)
Height			
Unit Type	Call Number	Net Clear Openings	
		ft - in	mm
All Configurations	8-0	7-8 1/8	(2340)
	10-0	9-8 1/8	(2950)



**Net Clear Openings: Outswing**

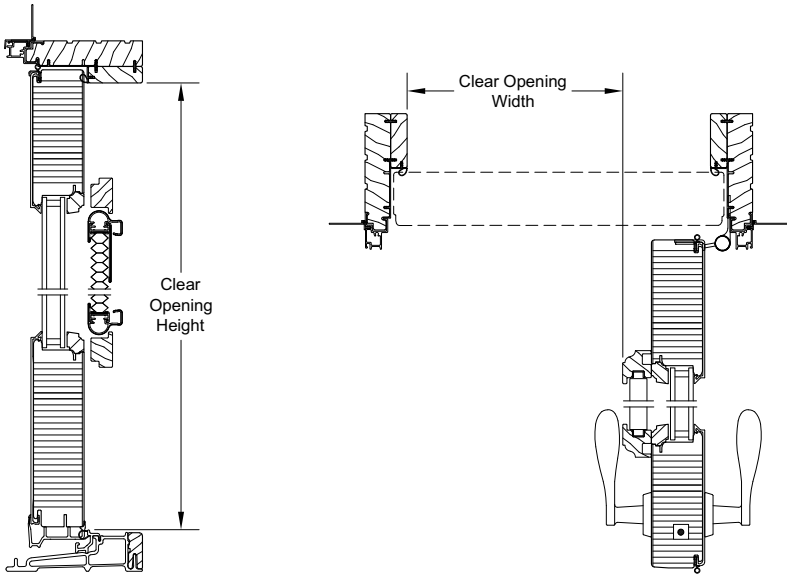
Net Clear Opening Ultimate Outswing French Door 2 1/4"			
Width			
Unit Type	Call Number	Net Clear Openings	
		ft-in	mm
1 Panel Operator with Interior Shade	2-6	2-0 9/32	(617)
	2-8	2-2 9/32	(667)
	3-0	2-6 9/32	(769)
2 Panel Operator with Interior Shade	5-0	4-1 13/16	(1265)
	5-4	4-5 13/16	(1367)
	6-0	5-1 13/16	(1570)
Height			
Unit Type	Call Number	Net Clear Openings	
		ft - in	mm
All Configurations	8-0	7-8 1/8	(2340)
	10-0	9-8 1/8	(2950)





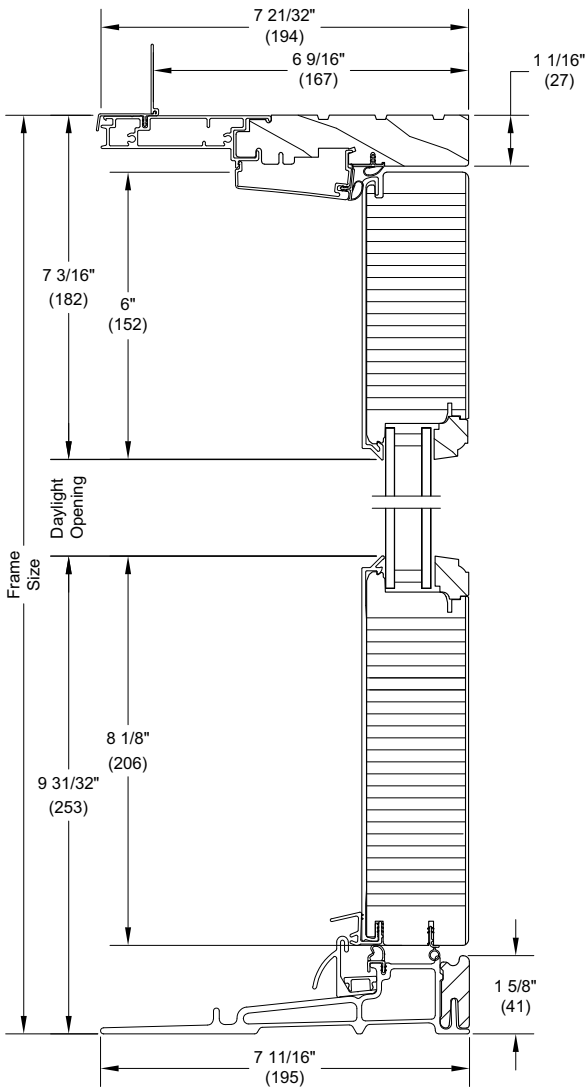
**Net Clear Openings: Outswing w/ Interior Shade**

Net Clear Opening Ultimate Inswing French Door 2 1/4"			
Width			
Unit Type	Call Number	Net Clear Openings	
		ft-in	mm
1 Panel Operator	2-6	2-1 15/32	(647)
	2-8	2-3 15/32	(698)
	3-0	2-7 15/32	(799)
2 Panel Operator	5-0	4-4 3/16	(1325)
	5-4	4-8 3/16	(1427)
	6-0	5-4 3/16	(1630)
Height			
Unit Type	Call Number	Net Clear Openings	
		ft - in	mm
All Configurations	8-0	7-7 23/32	(2329)
	10-0	9-7 23/32	(2939)

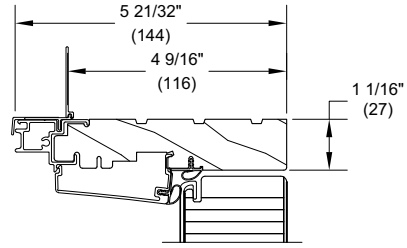


**Inswing Section Details: Operating**

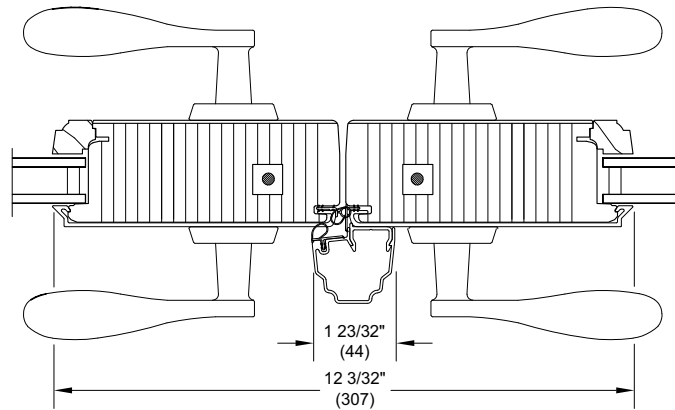
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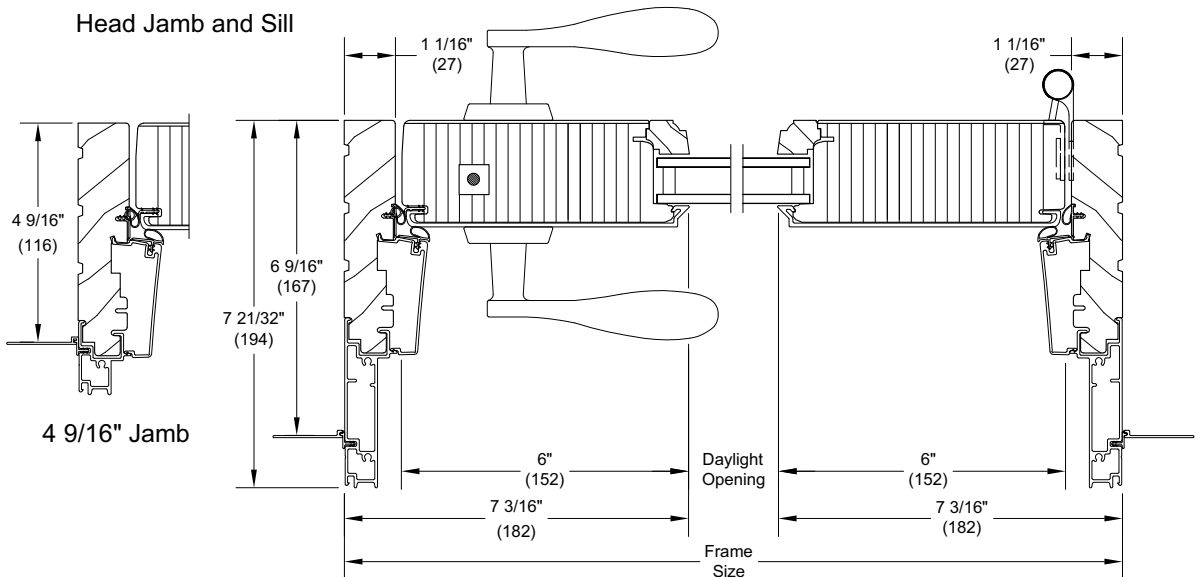
**Head Jamb and Sill**



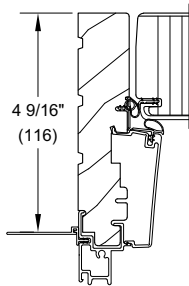
**4 9/16" Head Jamb**



**XX L Meeting Stiles**



**X R Jamb**

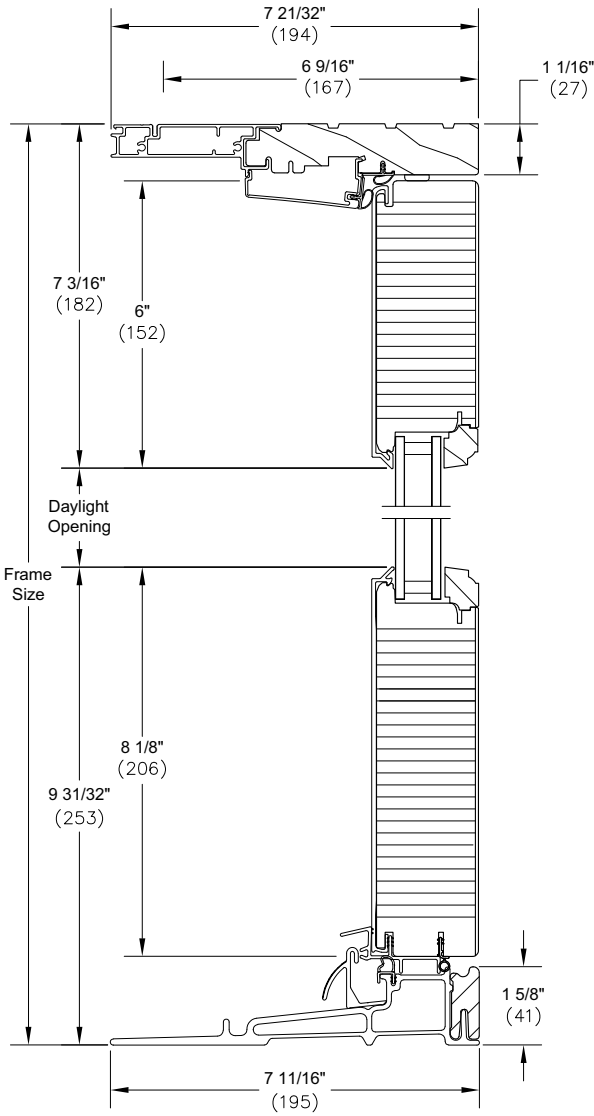


**4 9/16" Jamb**

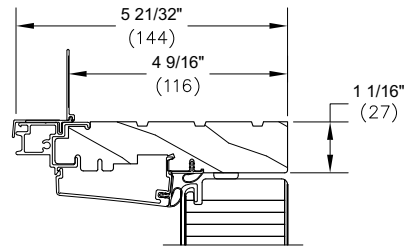
*NOTE: Square sticking is the default for the Short Bottom Rail product.*

**Inswing Section Details: Stationary and Sidelite**

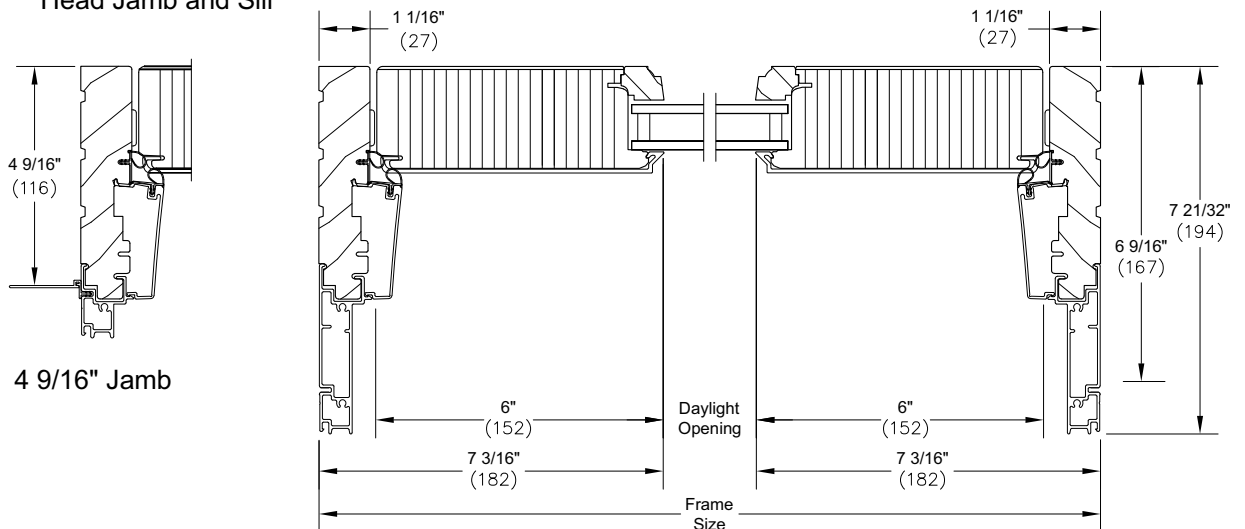
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**Head Jamb and Sill**



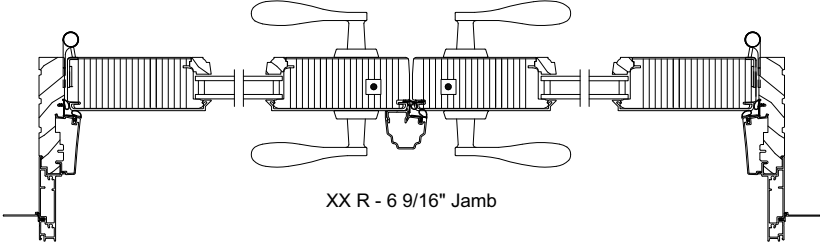
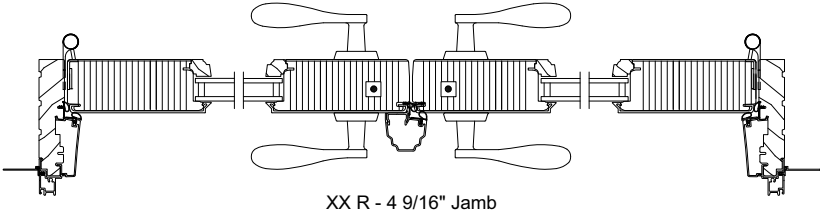
**4 9/16" Head Jamb**



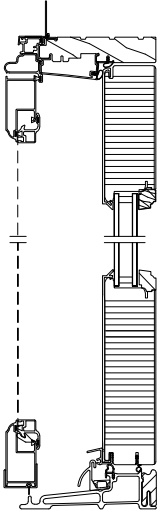
**4 9/16" Jamb**

**O - Jamb**

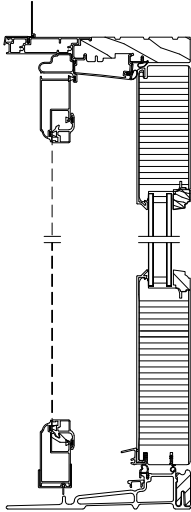
**Inswing Section Details: Panel Configurations**



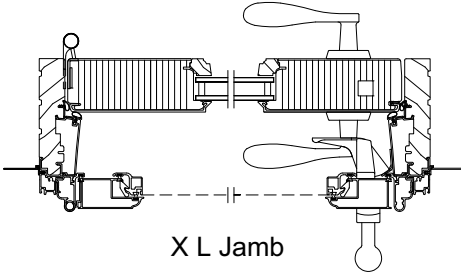
**Inswing Section Details: Ultimate Swinging Screen**



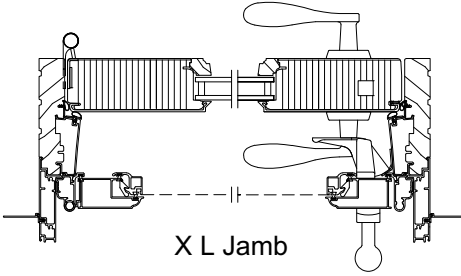
4 9/16" Head  
Jamb and Sill



6 9/16" Head  
Jamb and Sill



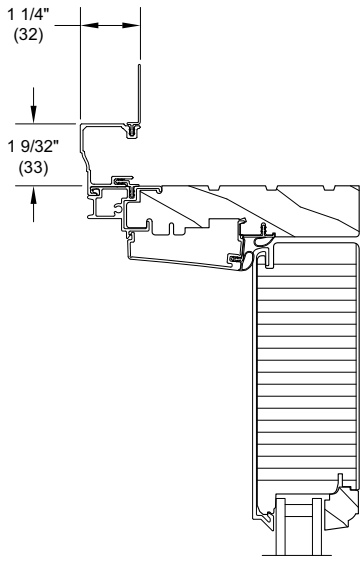
X L Jamb



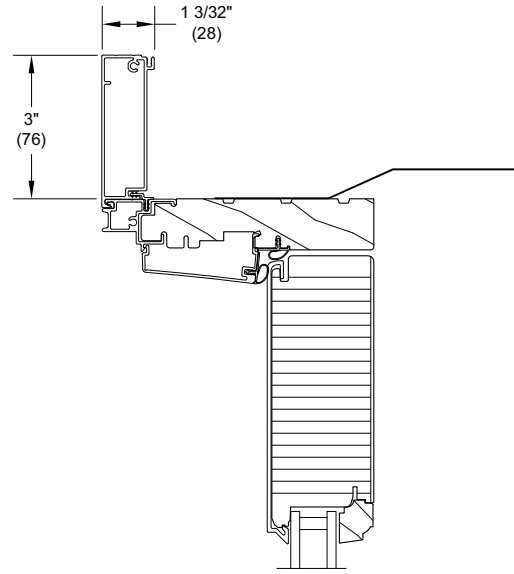
X L Jamb

**Inswing Section Details: Casing Options**

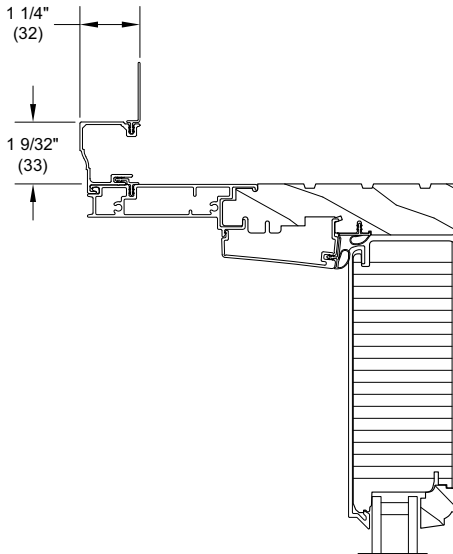
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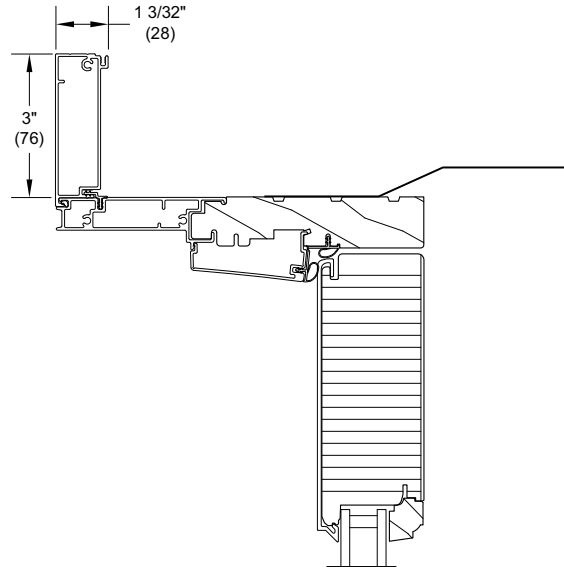
4 9/16" Head Jamb with  
Clad Brick Mould Casing



4 9/16" Head Jamb with  
Clad Flat Casing



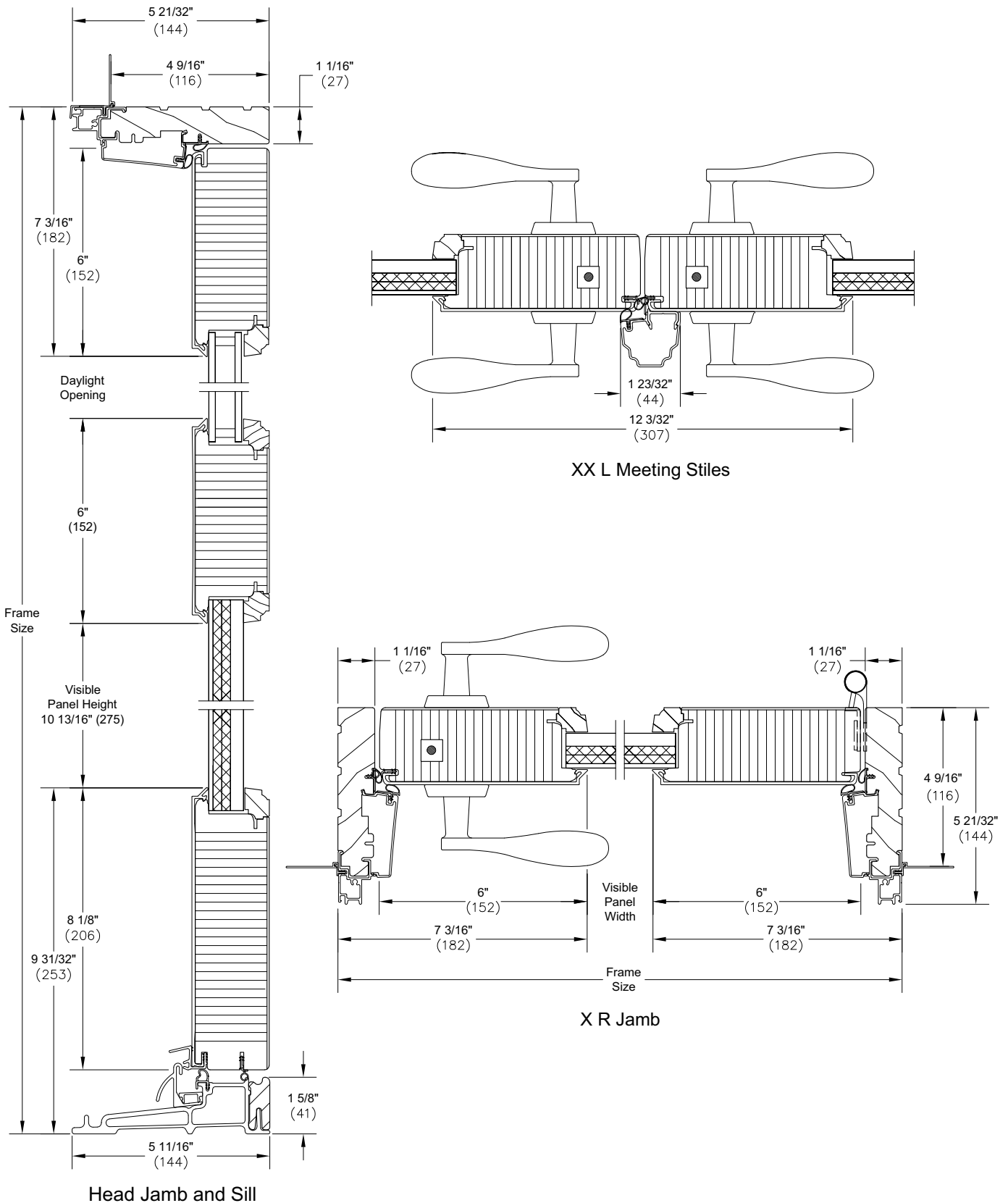
6 9/16" Head Jamb with  
Clad Brick Mould Casing



6 9/16" Head Jamb with  
Clad Flat Casing

**Inswing Section Details: Flat Panel Placement**

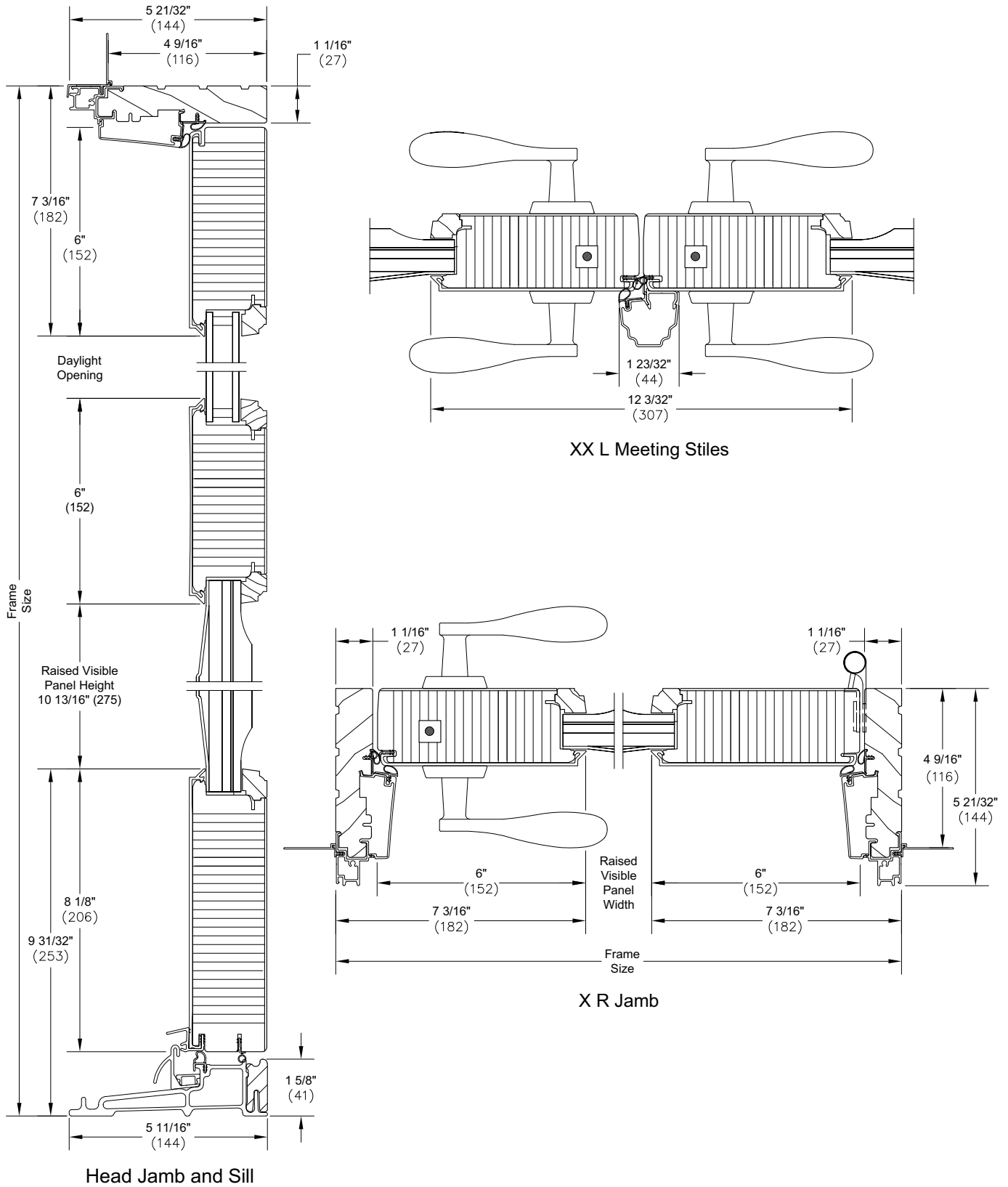
Scale: 3" = 1' 0"



**NOTE:** *Ultimate Inswing French Door 2 1/4"* with flat panels not available with CE mark.

**Inswing Section Details: Raised Panel Placement**

Scale: 3" = 1' 0"

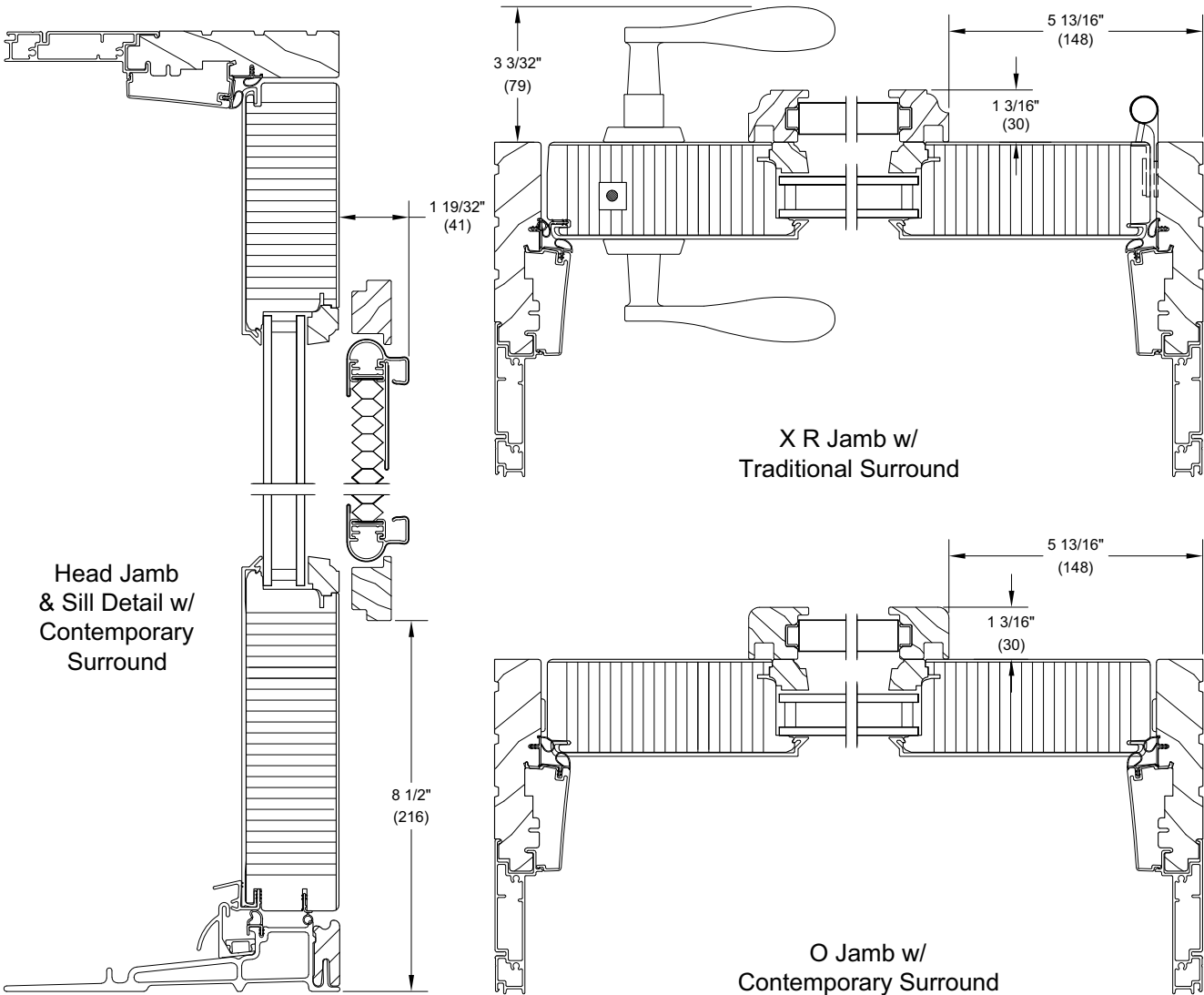


**NOTE:** *Ultimate Inswing French Door 2 1/4"* with raised panels not available with CE mark.



**Inswing Section Details: Interior Shade**

Scale: 3" = 1' 0"



Head Jamb & Sill Detail w/ Contemporary Surround

X R Jamb w/ Traditional Surround

O Jamb w/ Contemporary Surround

Head Jamb Detail w/ Contemporary Surround

1 19/32" (41)

8 1/2" (216)

5 11/16" (145)

1 15/32" (37)

3 3/32" (79)

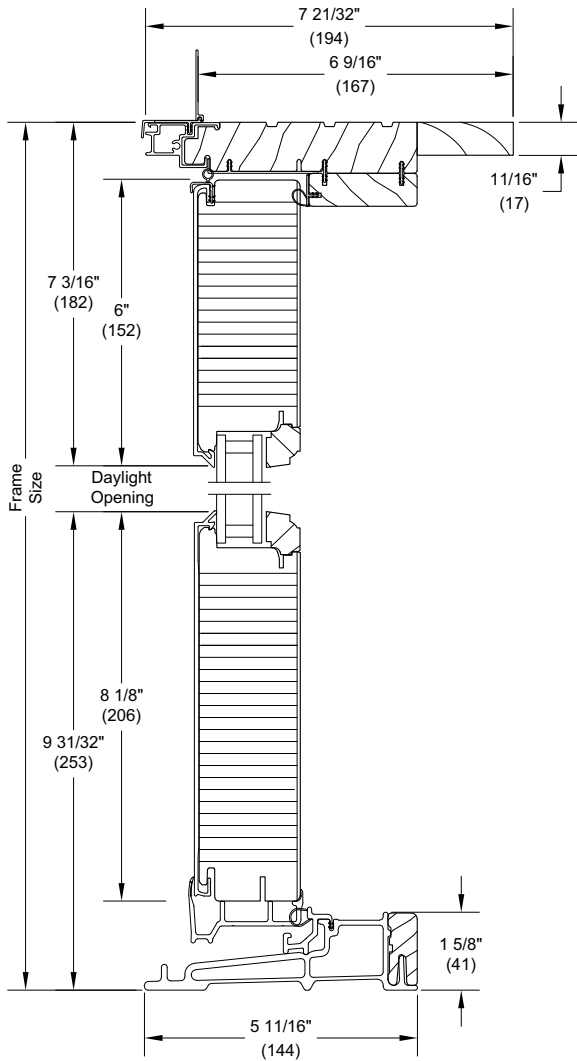
5 13/16" (148)

1 3/16" (30)

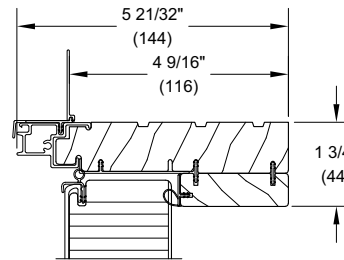
1 3/16" (30)

**Outswing Section Details: Operating**

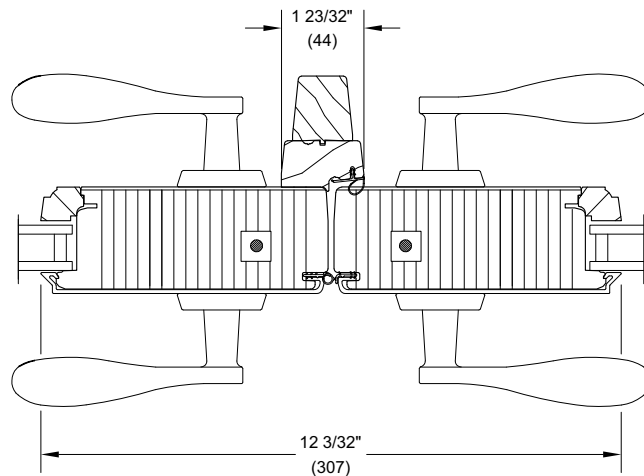
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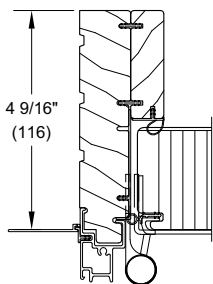
**Head Jamb and Sill**



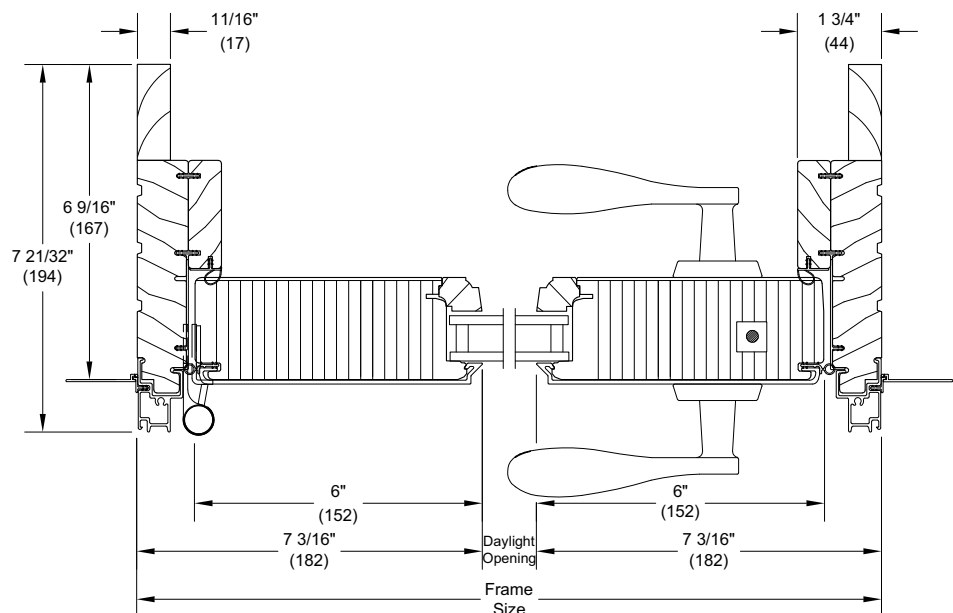
**4 9/16" Head Jamb**



**XX L - Meeting Stiles**



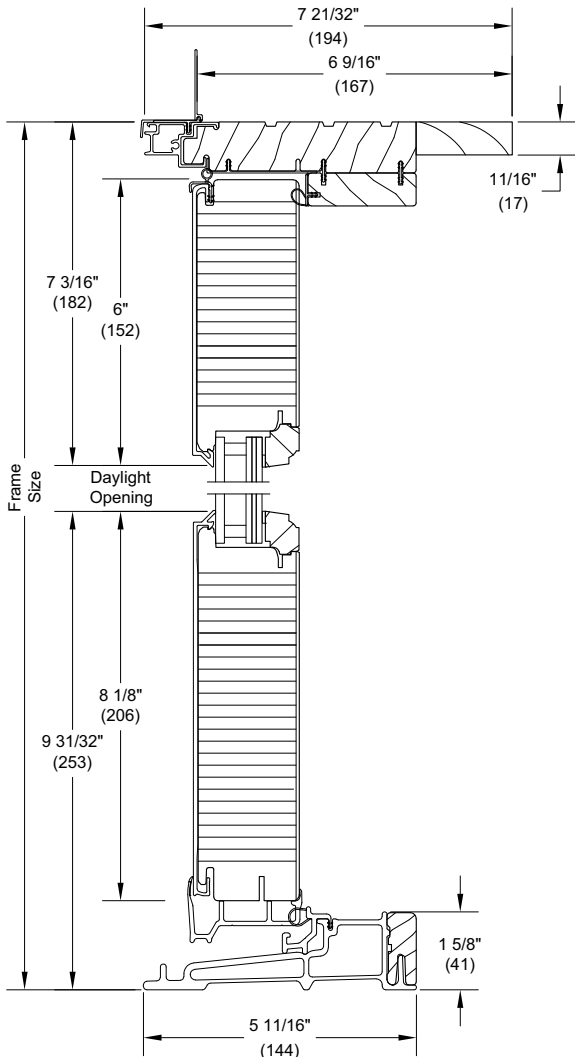
**4 9/16" Jamb**



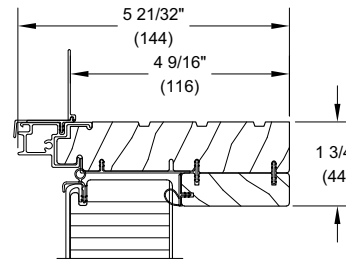
**X R - Jamb**

**Outswing Section Details: IZ3 / IZ4**

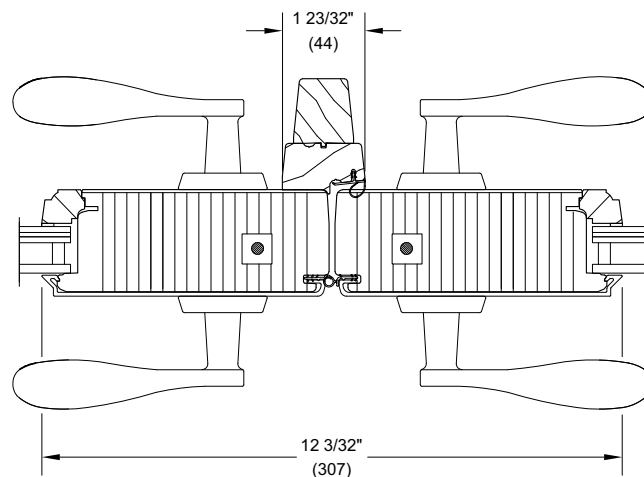
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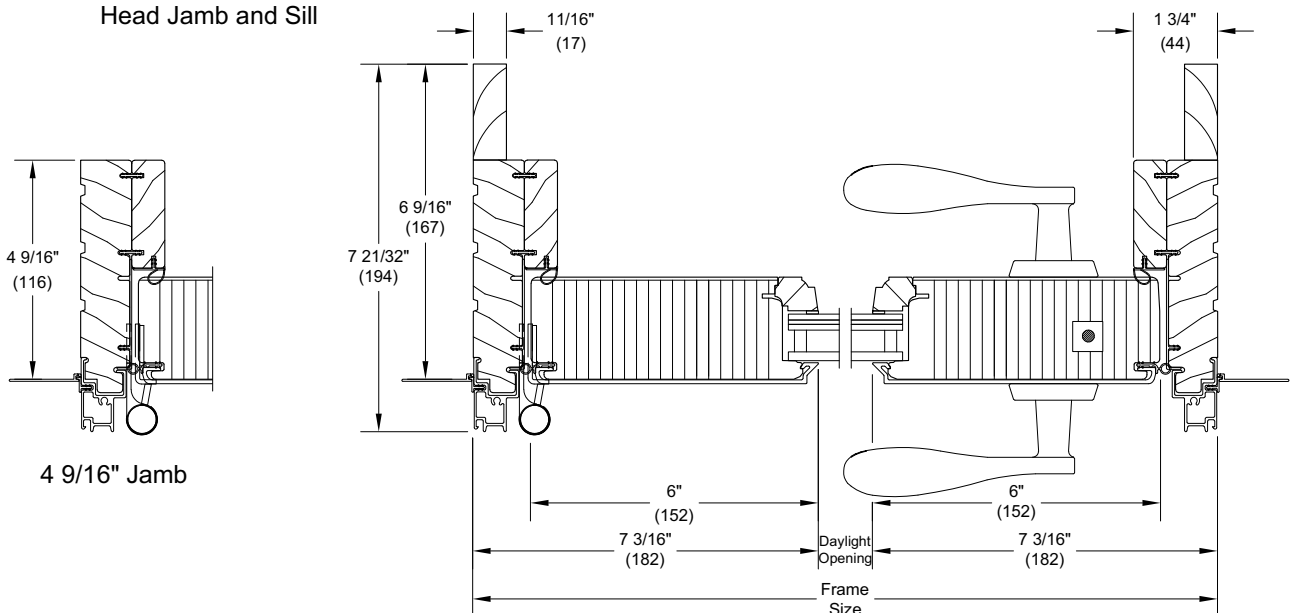
Head Jamb and Sill



4 9/16" Head Jamb



XX L - Meeting Stiles



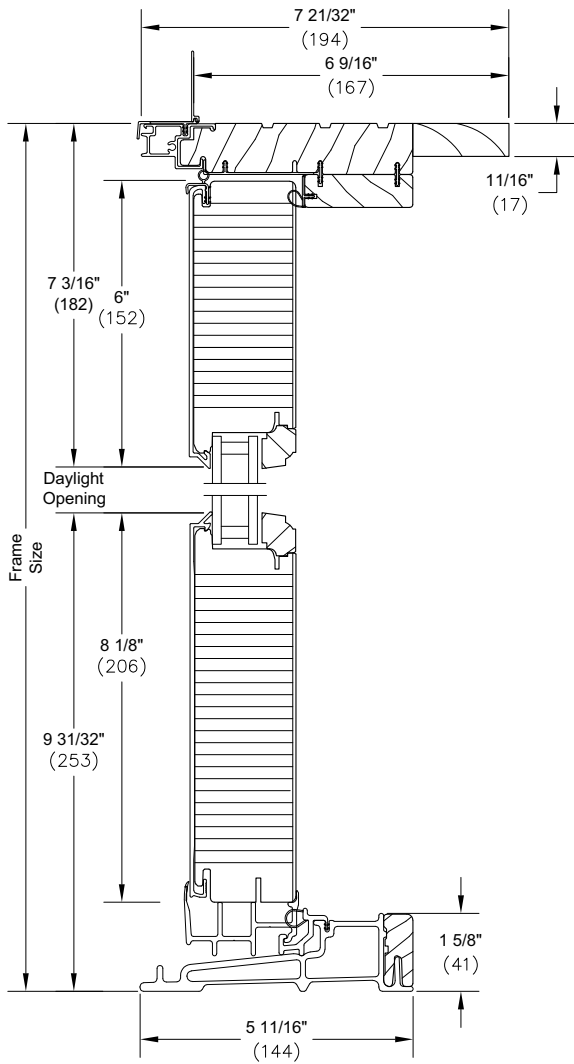
4 9/16" Jamb

X R - Jamb

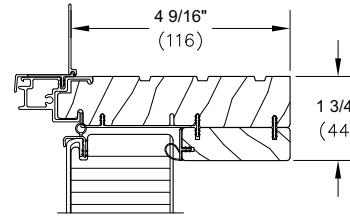
NOTE: IZ3/IZ4 rated products not available with CE mark.

**Outswing Section Details: Stationary and Sidelite**

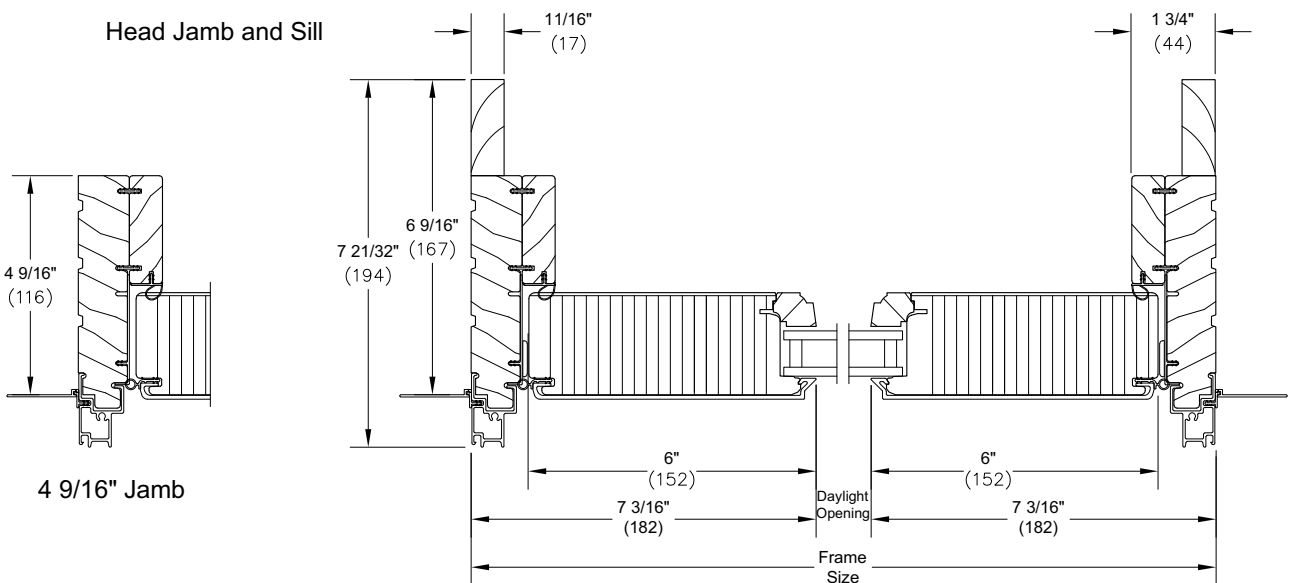
Scale: 3" = 1' 0"



**Head Jamb and Sill**



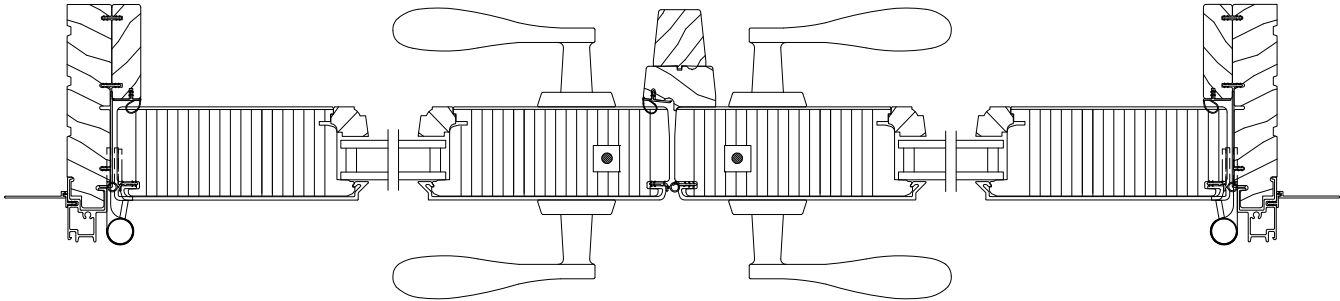
**4 9/16" Head Jamb**



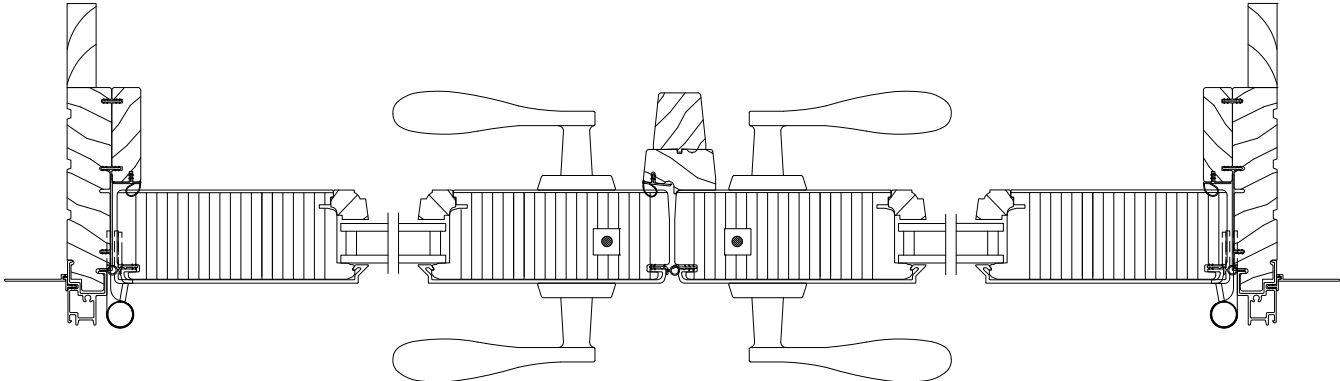
**4 9/16" Jamb**

**O - Jamb**

**Outswing Section Details: Panel Configurations**



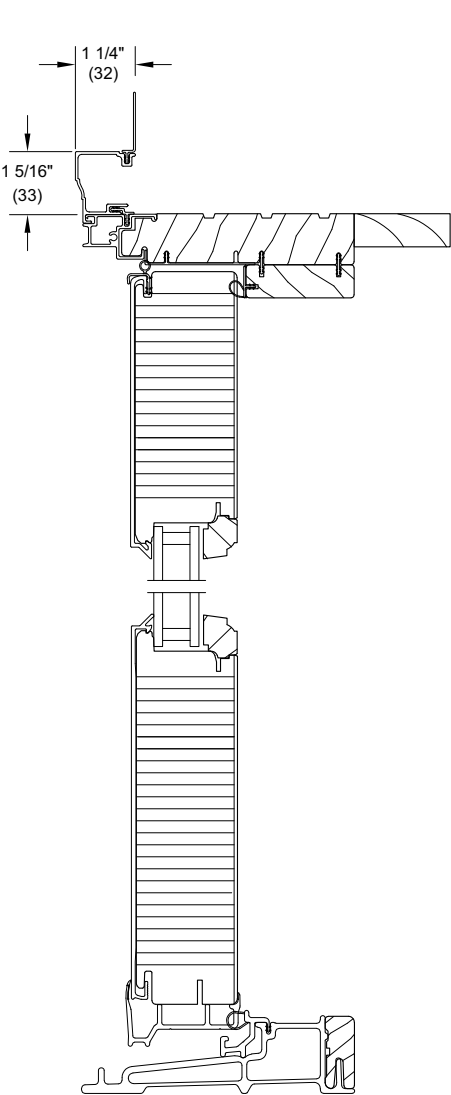
XX R 4 9/16" Jamb



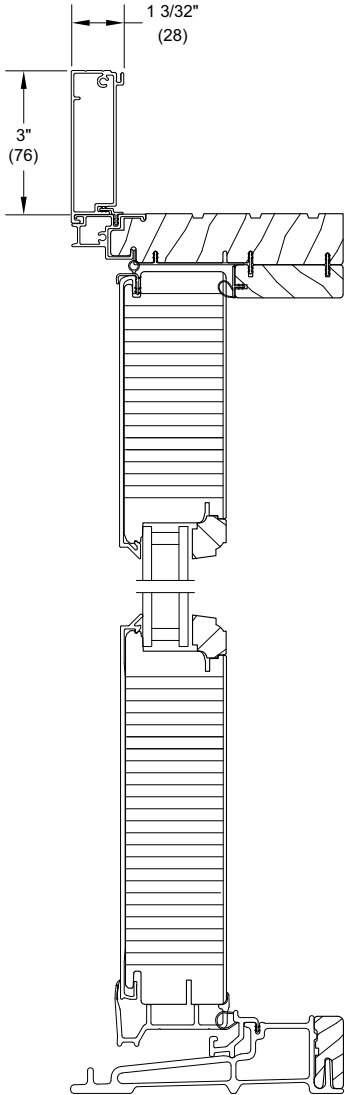
XX R 6 9/16" Jamb

**Outswing Section Details: Clad Casing Options**

Scale: 3" = 1' 0"



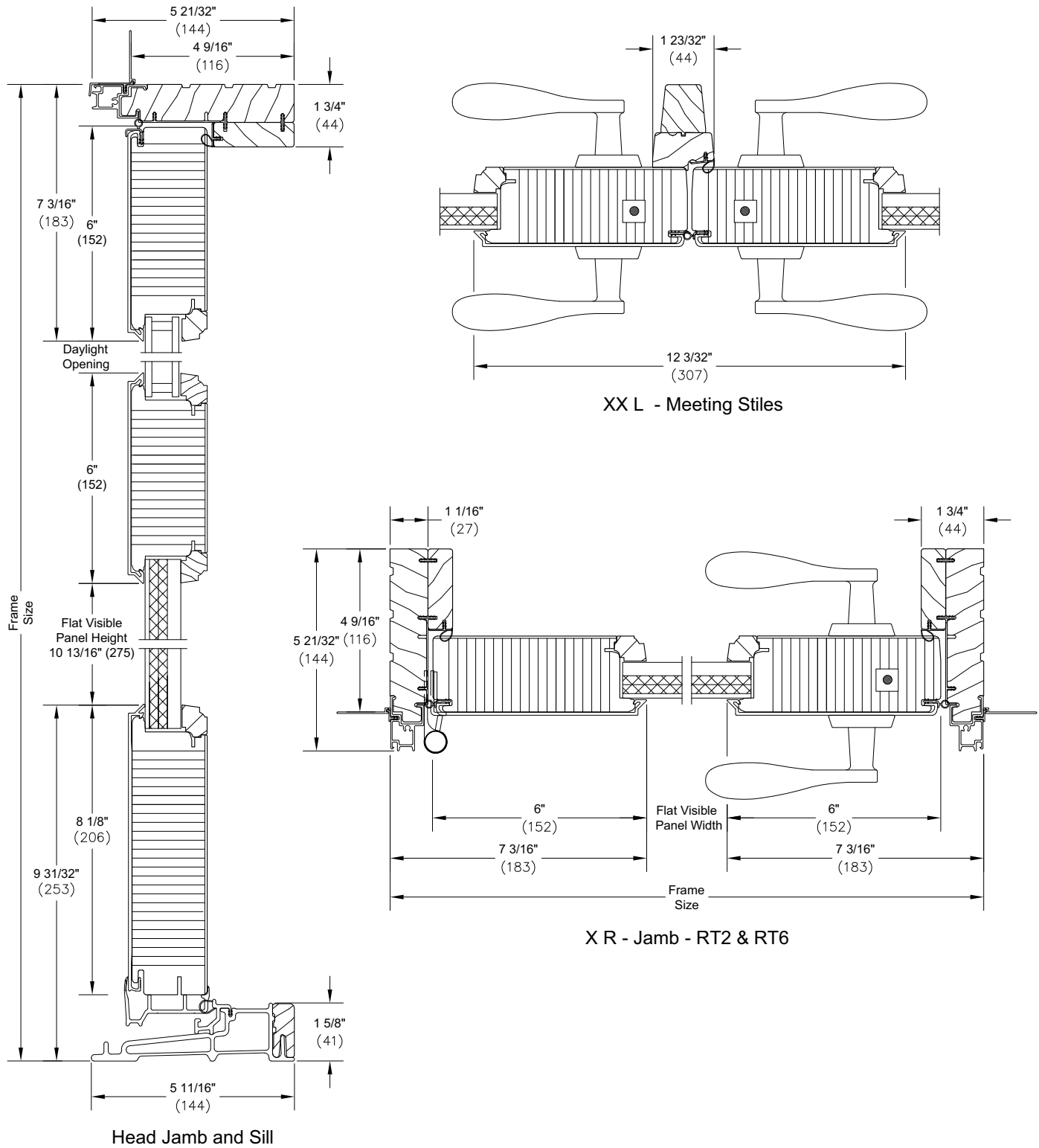
Head Jamb and Sill  
with Clad Brick Mould Casing  
6 9/16" Jamb Depth



Head Jamb and Sill  
with Clad Flat Casing  
4 9/16" Jamb Depth

**Outswing Section Details: Flat Panel Placement**

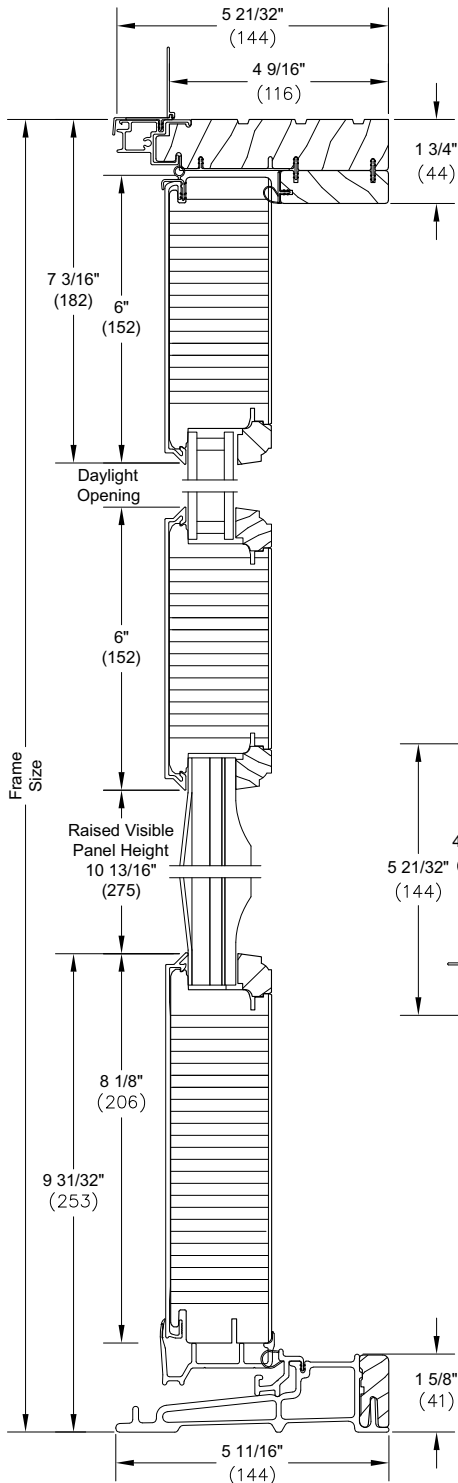
Scale: 3" = 1' 0"



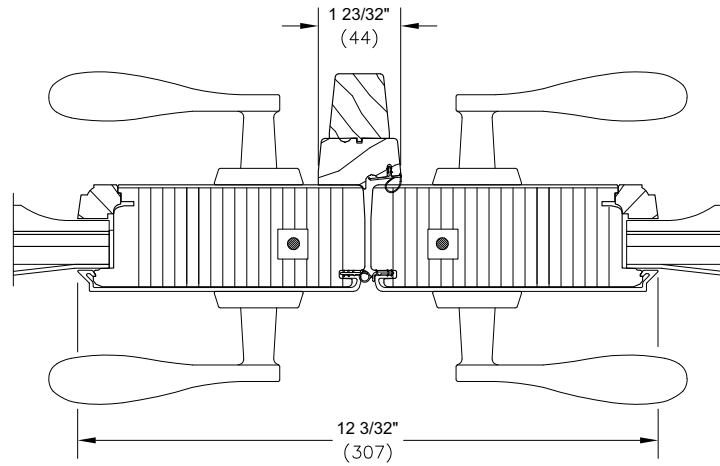
**NOTE:** *Ultimate Outswing French Door 2 1/4" with flat panels not available with CE mark.*

**Outswing Section Details: Raised Panel Placement**

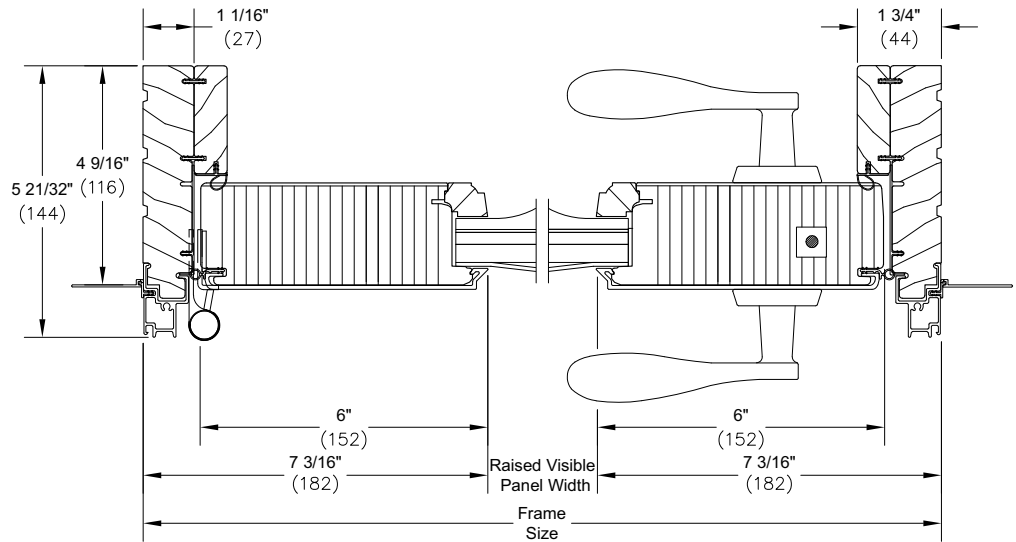
Scale: 3" = 1' 0"



Head Jamb and Sill



XX L - Meeting Stiles



X R - Jamb

NOTE: Ultimate Outswing French Door 2 1/4" with raised panels not available with CE mark.



**Outswing Section Details: Interior Shade**

Scale: 3" = 1' 0"

