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- Sound Transmission Class and Outdoor-Indoor Transmission Class ISD-4
- Features and Options ISD-5

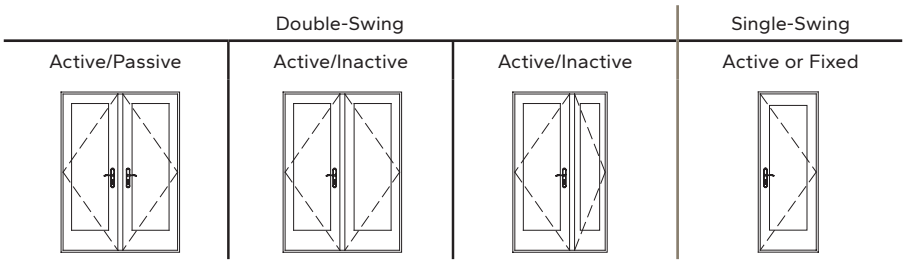
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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.

Size and Performance Data

	Clad
Sizes	
Standard door sizes	●
Standard sidelight sizes	●
Standard transom sizes	●
Fixed casement	●
Wide stile casement	●
Special sizes	●
Standard Sidelight Panel Widths	
1' 0"	●
1' 2"	●
Standard Single Panel Door Widths	
2' 6"	●
2' 8"	●
2' 10"	●
3' 0"	●
Standard Single Panel Door with Hinged Sidelight Widths	
2' 6" with 1' 0"	●
2' 6" with 1' 2"	●
2' 8" with 1' 0"	●
2' 8" with 1' 2"	●
2' 10" with 1' 0"	●
2' 10" with 1' 2"	●
3' 0" with 1' 0"	●
3' 0" with 1' 2"	●
Standard Double Panel Door Widths	
5' 0"	●
5' 4"	●
5' 8"	●
6' 0"	●
Standard Door Panel Heights	
6' 8"	●
6' 10"	●
7' 0"	●
8' 0"	●



Size and Performance Data

	Latch/Deadbolt	Multipoint Lock
In-Swing Single Door Performance Data [1]		
80" Call Height - Standard Sill		
Meets or Exceeds AAMA/WDMA Ratings	R 20 Hallmark Certified	LC 50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.3	0.3
Water Resistance	3.14 psf	7.52 psf
Design Pressure	40 psf	55 psf
80" Call Height - Low Profile Sill		
Meets or Exceeds AAMA/WDMA Ratings	Not Rated	Not Rated
96" Call Height - Standard Sill		
Meets or Exceeds AAMA/WDMA Ratings	LW R 20 Hallmark Certified	LC 50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.3	0.3
Water Resistance	LW 0 psf	7.52 psf
Design Pressure	20 psf	55 psf
96" Call Height - Low Profile Sill		
Meets or Exceeds AAMA/WDMA Ratings	Not Rated	Not Rated
In-Swing Double Door Performance Data [1]		
80" Call Height - Standard Sill		
Meets or Exceeds AAMA/WDMA Ratings	R 20 Hallmark Certified	LC 50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.3	0.3
Water Resistance	3.14 psf	7.52 psf
Design Pressure	30 psf	55 psf
80" Call Height - Low Profile Sill		
Meets or Exceeds AAMA/WDMA Ratings	Not Rated	Not Rated
96" Call Height - Standard Sill		
Meets or Exceeds AAMA/WDMA Ratings	LW R 20 Hallmark Certified	LC 50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.3	0.3
Water Resistance	LW 0 psf	7.52 psf
Design Pressure	20 psf	55 psf
96" Call Height - Low Profile Sill		
Meets or Exceeds AAMA/WDMA Ratings	Not Rated	Not Rated
In-Swing Hinging Sidelight Performance Data [1]		
80" Call Height - Standard Sill		
Meets or Exceeds AAMA/WDMA Ratings	R 20 Hallmark Certified	LC 50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.3	0.3
Water Resistance	3.14 psf	7.52 psf
Design Pressure	30 psf	55 psf
80" Call Height - Low Profile Sill		
Meets or Exceeds AAMA/WDMA Ratings	Not Rated	Not Rated
96" Call Height - Standard Sill		
Meets or Exceeds AAMA/WDMA Ratings	LW R 20 Hallmark Certified	LC 50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.3	0.3
Water Resistance	LW 0 psf	7.52 psf
Design Pressure	20 psf	55 psf
96" Call Height - Low Profile Sill		
Meets or Exceeds AAMA/WDMA Ratings	Not Rated	Not Rated

Other Performance Criteria	
Forced Entry Resistance	Pass

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. Doors supplied without latching hardware are not AAMA/WDMA performance certified. See Design Data pages in this section for specific product performance class and grade values.

NOTE: Performance with additional options may not be the same as Standard and Special size units. Please contact your local Pella representative for complete information.

Size and Performance Data

Sound Transmission Class / Outdoor-Indoor Transmission Class						
Panel Style	Frame Size Tested[1]	Glazing System			STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness		
Craftsman[2]	Without Grilles					
	74.25" x 81.5"	N/A	N/A	N/A	28	26
1/2 Light	Without Grilles					
	74.25" x 81.5"	3/4"	3 mm	3 mm	30	26
Full Light	Without Grilles					
	74.25" x 81.5"	3/4"	3 mm	3 mm	30	25
	74.25" x 81.5"	3/4"	4 mm	6 mm	33	30
	74.25" x 81.5"	7/8"	5 mm	7.6 mm PVB	35	30
	74.25" x 81.5"	3/4"	5 mm	3 mm	33	28

(1) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.
(2) Reflective of a craftsman panel with a clad upper panel style

NOTE: Performance with additional options may not be the same as Standard and Special size units. Please contact your local Pella representative for complete information.

Features and Options

Standard	Options / Upgrades	
Glazing		
Glazing Type		
Dual-Pane Insulating Glass	—	
Insulated Glass Options/Low-E Types		
Advanced Low-E	SunDefense™ Low-E	NaturalSun Low-E
	SunDefense+ Low-E	NaturalSun+ Low-E
	AdvancedComfort Low-E	Clear (no Low-E coating)
Additional Glass Options		
Tempered Glass	Obscure Glass[1]	Laminated (Tempered)
	Tinted Glass (Bronze, Gray and Green)	
Gas Fill/High Altitude		
Argon	High Altitude (Air filled)	
Wood Types		
Pine	—	
Exterior		
EnduraClad® protective finish	EnduraClad Plus protective finish	Seacoast EnduraClad protective finish
Panel Finish		
Smooth Clad	Woodgrain Clad[2]	
Cladding Colors		
Standard Colors[1]	Feature Colors[1]	Custom Colors[1]
Sill Finish[3]		
Black	Mill	
Interior		
Unfinished wood	Factory primed[1]	Factory prefinished paint[1]
	Factory prefinished stain[1]	
Hardware		
White	Satin Brass	Distressed Nickel
Champagne	Satin Nickel	Distressed Bronze
Brown	Oil-Rubbed Bronze	Polished Chrome
Matte Black		
Locking System		
Latch Bore with Deadbolt	Multipoint Lock	
	Latch Bore	No Lock / No Bore
Grilles		
Integral Light Technology® Grilles		
—	Traditional	Prairie
	Top Row	Cross
Grilles-Between-the-Glass		
—	Traditional	Prairie
	Top Row	Cross

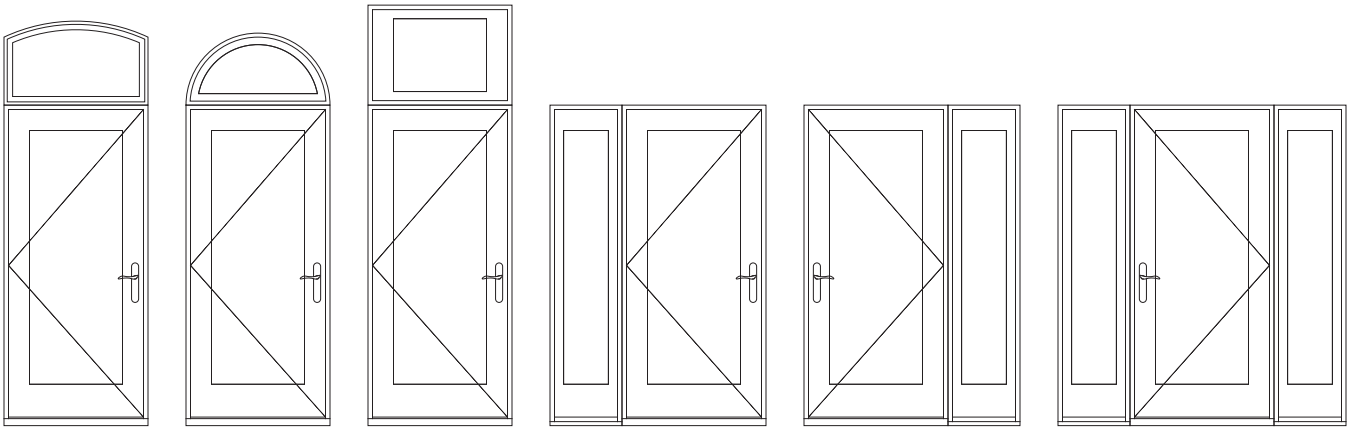
(1) Contact your local Pella sales representative for current designs and color options.
(2) Woodgrain clad finish is only available on door panels, and only those using putty or square profiles.
(3) Finish options include low profile sill.

Combinations

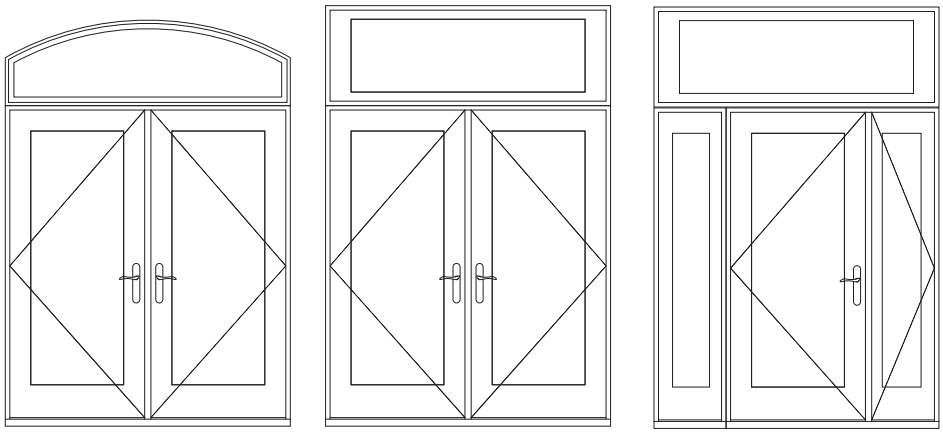
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a direct or reinforcing mullion.

Below are examples of common configurations, see the Combinations Recommendations document for typical mullions, requirements and limitations.

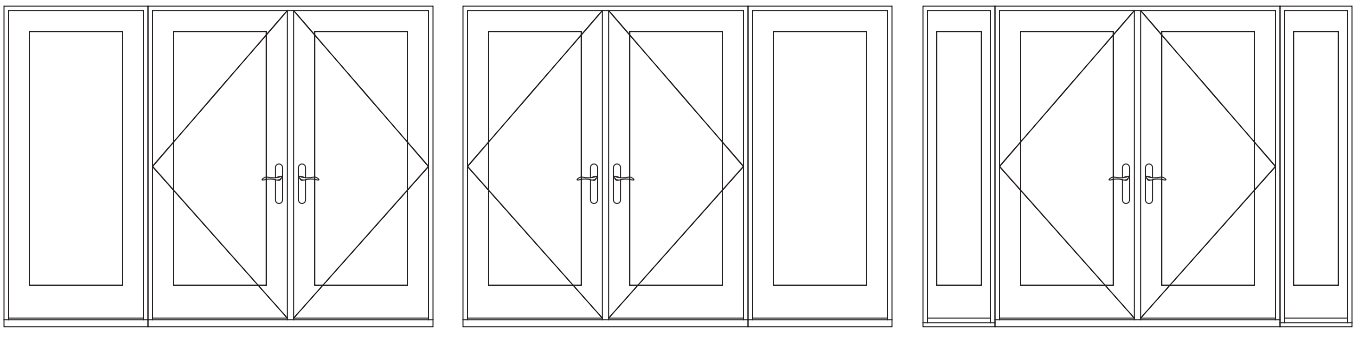
Contact your local Pella sales representative for more information.



Arch Head over Single | Half Circle over Single | Transom over Single [1] | Single with Left Sidelight | Single with Right Sidelight | Single with Double Sidelight



Arch Head over Double | Transom over Double | Transom over Single with Hinged Sidelight and Fixed Sidelight



Double with Single Left | Double with Single Right | Double with Double Sidelights

(1) Other rectangular profiles are also available as combination options.

Glazing Performance - Total Unit

1 **Find door panel type and size[3].** Note category (A, B, C, D, E, F, G)

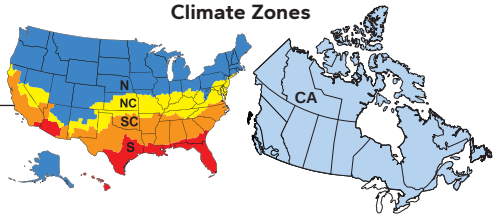
Panel Style		Full Light (Putty or Ogee Profile)				Full Light / 3 Light Equal / 4 Light Equal (Square Profile)				3/4 Light				2/3 Light				1/2 Light 1 Panel / 1/2 Light 2 Panel				Craftsman Light				Craftsman / 2 Panel Square			
Single Door Call Width		30	32	34	36	30	32	34	36	30	32	34	36	30	32	34	36	30	32	34	36	30	32	34	36	30	32	34	36
Double Door Call Width		60	64	68	72	60	64	68	72	60	64	68	72	60	64	68	72	60	64	68	72	60	64	68	72	60	64	68	72
Call Height	80	A	A	A	A	B	B	B	B	D	C	C	C	E	D	D	C	E	E	E	E	F	E	E	E	G	G	G	G
	82	A	A	A	A	B	B	B	B	C	C	C	C	D	D	C	C	E	E	E	D	F	E	E	E	G	G	G	G
	84	A	A	A	A	B	B	B	B	C	C	C	C	D	D	C	C	E	E	D	D	F	E	E	E	G	G	G	G
	96	A	A	A	A	B	B	B	B	C	C	C	C	C	C	C	C	D	D	C	C	F	E	E	E	G	G	G	G

2 **Cross reference thermal table below with door panel matrix in Step 1.**

Category	Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]			Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
				Ext.	Int.		U-Factor	SHGC	VLT	U. S. Zone				Canada[2] ER	Canada[2] Zone
										N	NC	SC	S		CA
		Vent Dual-Pane Glazing - Aluminum-Clad Exterior In-swing Door													
A	3/4"	Clear IG	PEL-N-311-00001-00001	3	3	air	0.37	0.34	0.35						
		with grilles-between-the-glass	PEL-N-311-00001-00002				0.37	0.30	0.31						
		with internal grilles	PEL-N-311-00002-00001				0.35	0.30	0.31						
	3/4"	Advanced Low-E IG	PEL-N-311-00022-00001	3	3	argon	0.27	0.17	0.30			SC	S		
		with grilles-between-the-glass	PEL-N-311-00022-00002				0.27	0.15	0.26			SC	S		
		with internal grilles	PEL-N-311-00023-00001				0.27	0.15	0.26			SC	S		
	3/4"	SunDefense Low-E IG	PEL-N-311-00025-00001	3	3	argon	0.27	0.13	0.28			SC	S		
		with grilles-between-the-glass	PEL-N-311-00025-00002				0.27	0.11	0.24			SC	S		
		with internal grilles	PEL-N-311-00026-00001				0.27	0.11	0.24			SC	S		
	3/4"	SunDefense+ Low-E IG	PEL-N-311-00034-00001	3	3	argon	0.25	0.12	0.27	N	NC	SC	S		
		with grilles-between-the-glass	PEL-N-311-00034-00002				0.25	0.11	0.24	N	NC	SC	S		
		with internal grilles	PEL-N-311-00035-00001				0.26	0.11	0.24	N	NC	SC	S		
	3/4"	AdvancedComfort Low-E IG	PEL-N-311-00031-00001	3	3	argon	0.25	0.16	0.29	N	NC	SC	S		
		with grilles-between-the-glass	PEL-N-311-00031-00002				0.25	0.15	0.26	N	NC	SC	S		
		with internal grilles	PEL-N-311-00032-00001				0.26	0.15	0.26	N	NC	SC	S		
	3/4"	Natural Sun Low-E IG	PEL-N-311-00028-00001	3	3	argon	0.28	0.30	0.34						
		with grilles-between-the-glass	PEL-N-311-00028-00002				0.28	0.27	0.30						
		with internal grilles	PEL-N-311-00029-00001				0.27	0.27	0.30						
	3/4"	Natural Sun+ Low-E IG	PEL-N-311-00037-00001	3	3	argon	0.25	0.28	0.33	N	NC				
		with grilles-between-the-glass	PEL-N-311-00037-00002				0.25	0.24	0.29	N	NC				
		with internal grilles	PEL-N-311-00038-00001				0.27	0.24	0.29						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
ER = Canadian Energy Rating

Climate Zones



(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

U-Factor values shown are based on a standard sill and pine interior.

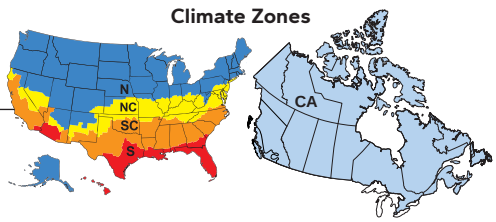
(3) For one (1) panel with hinging sidelight configurations, use the active panel width and panel style only.

Glazing Performance - Total Unit

Category	Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]			Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
				Ext.	Int.		U-Factor	SHGC	VLT	U. S.				Canada[2]	
										Zone				ER	Zone
	Vent Dual-Pane Glazing - Aluminum-Clad Exterior In-swing Door									N	NC	SC	S		CA
B	3/4"	Clear IG	PEL-N-311-00866-00001	3	3	air	0.37	0.37	0.37						
		with grilles-between-the-glass	PEL-N-311-00866-00002				0.37	0.31	0.32						
		with internal grilles	PEL-N-311-00868-00002				0.38	0.28	0.28						
	3/4"	Advanced Low-E IG	PEL-N-311-00887-00001	3	3	argon	0.27	0.17	0.31			SC	S		
		with grilles-between-the-glass	PEL-N-311-00887-00002				0.27	0.15	0.28			SC	S		
		with internal grilles	PEL-N-311-00889-00002				0.30	0.14	0.24						
	3/4"	SunDefense Low-E IG	PEL-N-311-00890-00001	3	3	argon	0.27	0.13	0.29			SC	S		
		with grilles-between-the-glass	PEL-N-311-00890-00002				0.27	0.12	0.25			SC	S		
		with internal grilles	PEL-N-311-00892-00002				0.29	0.10	0.22						
	3/4"	SunDefense+ Low-E IG	PEL-N-311-00899-00001	3	3	argon	0.25	0.13	0.28	N	NC	SC	S		
		with grilles-between-the-glass	PEL-N-311-00899-00002				0.25	0.11	0.25	N	NC	SC	S		
		with internal grilles	PEL-N-311-00901-00002				0.29	0.10	0.22						
	3/4"	AdvancedComfort Low-E IG	PEL-N-311-00896-00001	3	3	argon	0.25	0.17	0.31	N	NC	SC	S		
		with grilles-between-the-glass	PEL-N-311-00896-00002				0.25	0.15	0.27	N	NC	SC	S		
		with internal grilles	PEL-N-311-00898-00002				0.29	0.13	0.23						
	3/4"	Natural Sun Low-E IG	PEL-N-311-00893-00001	3	3	argon	0.28	0.32	0.36						
		with grilles-between-the-glass	PEL-N-311-00893-00002				0.28	0.28	0.31						
		with internal grilles	PEL-N-311-00895-00002				0.30	0.24	0.27						
	3/4"	Natural Sun+ Low-E IG	PEL-N-311-00902-00001	3	3	argon	0.25	0.29	0.35	N	NC				
		with grilles-between-the-glass	PEL-N-311-00902-00002				0.25	0.25	0.30	N	NC				
		with internal grilles	PEL-N-311-00904-00002				0.29	0.22	0.26						
C	3/4"	Clear IG	PEL-N-309-02020-00001	3	3	air	0.39	0.34	0.35						
		with grilles-between-the-glass	PEL-N-309-02020-00002				0.39	0.26	0.26						
		with internal grilles	PEL-N-309-02021-00001				0.38	0.26	0.26						
	3/4"	Advanced Low-E IG	PEL-N-309-02041-00001	3	3	argon	0.29	0.16	0.30						
		with grilles-between-the-glass	PEL-N-309-02041-00002				0.29	0.13	0.22						
		with internal grilles	PEL-N-309-02042-00001				0.29	0.13	0.22						
	3/4"	SunDefense Low-E IG	PEL-N-309-02044-00001	3	3	argon	0.29	0.12	0.27						
		with grilles-between-the-glass	PEL-N-309-02044-00002				0.29	0.10	0.21						
		with internal grilles	PEL-N-309-02045-00001				0.29	0.10	0.21						
	3/4"	SunDefense+ Low-E IG	PEL-N-309-02053-00001	3	3	argon	0.27	0.12	0.27			SC	S		
		with grilles-between-the-glass	PEL-N-309-02053-00002				0.27	0.10	0.20			SC	S		
		with internal grilles	PEL-N-309-02054-00001				0.28	0.10	0.20			SC	S		
	3/4"	AdvancedComfort Low-E IG	PEL-N-309-02050-00001	3	3	argon	0.27	0.16	0.29			SC	S		
		with grilles-between-the-glass	PEL-N-309-02050-00002				0.27	0.13	0.22			SC	S		
		with internal grilles	PEL-N-309-02051-00001				0.29	0.13	0.22						
	3/4"	Natural Sun Low-E IG	PEL-N-309-02047-00001	3	3	argon	0.30	0.30	0.34						
		with grilles-between-the-glass	PEL-N-309-02047-00002				0.30	0.23	0.25						
		with internal grilles	PEL-N-309-02048-00001				0.30	0.23	0.25						
	3/4"	Natural Sun+ Low-E IG	PEL-N-309-02056-00001	3	3	argon	0.28	0.27	0.33						
		with grilles-between-the-glass	PEL-N-309-02056-00002				0.28	0.21	0.25			SC	S		
		with internal grilles	PEL-N-309-02057-00001				0.29	0.21	0.25						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
ER = Canadian Energy Rating

Climate Zones



(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

U-Factor values shown are based on a standard sill and pine interior.

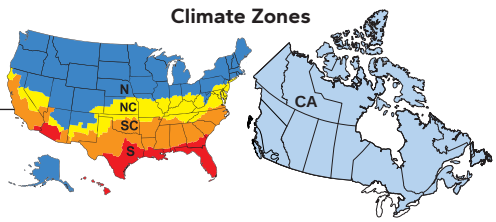
Visit www.energystar.gov for Energy Star guidelines.

Glazing Performance - Total Unit

Category	Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]			Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
				Ext.	Int.		U-Factor	SHGC	VLT	U. S.				Canada[2]	
										Zone				ER	Zone
	Vent Dual-Pane Glazing - Aluminum-Clad Exterior In-swing Door									N	NC	SC	S		CA
D	3/4"	Clear IG	PEL-N-309-01347-00001	3	3	air	0.38	0.26	0.26						
		with grilles-between-the-glass	PEL-N-309-01347-00002				0.38	0.23	0.23						
		with internal grilles	PEL-N-309-01348-00001				0.36	0.23	0.23						
	3/4"	Advanced Low-E IG	PEL-N-309-01368-00001	3	3	argon	0.30	0.13	0.22						
		with grilles-between-the-glass	PEL-N-309-01368-00002				0.30	0.11	0.19						
		with internal grilles	PEL-N-309-01369-00001				0.30	0.11	0.19						
	3/4"	SunDefense Low-E IG	PEL-N-309-01371-00001	3	3	argon	0.30	0.10	0.21						
		with grilles-between-the-glass	PEL-N-309-01371-00002				0.30	0.09	0.18						
		with internal grilles	PEL-N-309-01372-00001				0.30	0.09	0.18						
	3/4"	SunDefense+ Low-E IG	PEL-N-309-01380-00001	3	3	argon	0.29	0.10	0.20						
		with grilles-between-the-glass	PEL-N-309-01380-00002				0.29	0.09	0.17						
		with internal grilles	PEL-N-309-01381-00001				0.29	0.09	0.17						
	3/4"	AdvancedComfort Low-E IG	PEL-N-309-01377-00001	3	3	argon	0.29	0.13	0.22						
		with grilles-between-the-glass	PEL-N-309-01377-00002				0.29	0.11	0.19						
		with internal grilles	PEL-N-309-01378-00001				0.30	0.11	0.19						
	3/4"	Natural Sun Low-E IG	PEL-N-309-01374-00001	3	3	argon	0.31	0.23	0.25						
		with grilles-between-the-glass	PEL-N-309-01374-00002				0.31	0.20	0.22						
		with internal grilles	PEL-N-309-01375-00001				0.30	0.20	0.22						
	3/4"	Natural Sun+ Low-E IG	PEL-N-309-01383-00001	3	3	argon	0.29	0.21	0.25						
		with grilles-between-the-glass	PEL-N-309-01383-00002				0.29	0.18	0.21						
		with internal grilles	PEL-N-309-01384-00001				0.30	0.18	0.21						
E	3/4"	Clear IG	PEL-N-309-00674-00001	3	3	air	0.36	0.20	0.19						
		with grilles-between-the-glass	PEL-N-309-00674-00002				0.36	0.17	0.17						
		with internal grilles	PEL-N-309-00675-00001				0.35	0.17	0.17						
	3/4"	Advanced Low-E IG	PEL-N-309-00695-00001	3	3	argon	0.31	0.10	0.17						
		with grilles-between-the-glass	PEL-N-309-00695-00002				0.31	0.09	0.14						
		with internal grilles	PEL-N-309-00696-00001				0.31	0.09	0.14						
	3/4"	SunDefense Low-E IG	PEL-N-309-00698-00001	3	3	argon	0.31	0.08	0.15						
		with grilles-between-the-glass	PEL-N-309-00698-00002				0.31	0.07	0.13						
		with internal grilles	PEL-N-309-00699-00001				0.31	0.07	0.13						
	3/4"	SunDefense+ Low-E IG	PEL-N-309-00707-00001	3	3	argon	0.30	0.08	0.15						
		with grilles-between-the-glass	PEL-N-309-00707-00002				0.30	0.07	0.13						
		with internal grilles	PEL-N-309-00708-00001				0.30	0.07	0.13						
	3/4"	AdvancedComfort Low-E IG	PEL-N-309-00704-00001	3	3	argon	0.30	0.10	0.16						
		with grilles-between-the-glass	PEL-N-309-00704-00002				0.30	0.09	0.14						
		with internal grilles	PEL-N-309-00705-00001				0.30	0.09	0.14						
	3/4"	Natural Sun Low-E IG	PEL-N-309-00701-00001	3	3	argon	0.31	0.18	0.19						
		with grilles-between-the-glass	PEL-N-309-00701-00002				0.31	0.15	0.16						
		with internal grilles	PEL-N-309-00702-00001				0.31	0.15	0.16						
	3/4"	Natural Sun+ Low-E IG	PEL-N-309-00710-00001	3	3	argon	0.30	0.16	0.18						
		with grilles-between-the-glass	PEL-N-309-00710-00002				0.30	0.14	0.16						
		with internal grilles	PEL-N-309-00711-00001				0.31	0.14	0.16						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
ER = Canadian Energy Rating

Climate Zones



(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

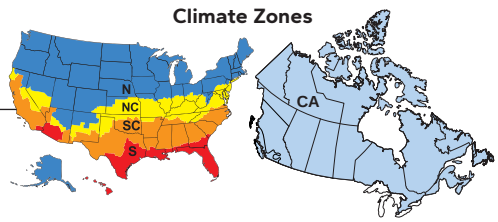
U-Factor values shown are based on a standard sill and pine interior.

Visit www.energystar.gov for Energy Star guidelines.

Glazing Performance - Total Unit

Category	Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]			Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
				Ext.	Int.		U-Factor	SHGC	VLT	U. S.				Canada[2]	
										Zone				ER	Zone
F	3/4"	Clear IG	PEL-N-309-00001-00001	3	3	air	0.35	0.13	0.12						
		with grilles-between-the-glass	PEL-N-309-00001-00002				0.35	0.11	0.10						
		with internal grilles	PEL-N-309-00002-00001				0.34	0.11	0.10						
	3/4"	Advanced Low-E IG	PEL-N-309-00022-00001	3	3	argon	0.32	0.07	0.10						
		with grilles-between-the-glass	PEL-N-309-00022-00002				0.32	0.06	0.09						
		with internal grilles	PEL-N-309-00023-00001				0.32	0.06	0.09						
	3/4"	SunDefense Low-E IG	PEL-N-309-00025-00001	3	3	argon	0.32	0.05	0.09						
		with grilles-between-the-glass	PEL-N-309-00025-00002				0.32	0.05	0.08						
		with internal grilles	PEL-N-309-00026-00001				0.32	0.05	0.08						
	3/4"	SunDefense+ Low-E IG	PEL-N-309-00034-00001	3	3	argon	0.31	0.05	0.09						
		with grilles-between-the-glass	PEL-N-309-00034-00002				0.31	0.05	0.08						
		with internal grilles	PEL-N-309-00035-00001				0.31	0.05	0.08						
	3/4"	AdvancedComfort Low-E IG	PEL-N-309-00031-00001	3	3	argon	0.31	0.07	0.10						
		with grilles-between-the-glass	PEL-N-309-00031-00002				0.31	0.06	0.08						
		with internal grilles	PEL-N-309-00032-00001				0.32	0.06	0.08						
	3/4"	Natural Sun Low-E IG	PEL-N-309-00028-00001	3	3	argon	0.32	0.11	0.11						
		with grilles-between-the-glass	PEL-N-309-00028-00002				0.32	0.10	0.10						
		with internal grilles	PEL-N-309-00029-00001				0.32	0.10	0.10						
	3/4"	Natural Sun+ Low-E IG	PEL-N-309-00037-00001	3	3	argon	0.32	0.11	0.11						
		with grilles-between-the-glass	PEL-N-309-00037-00002				0.32	0.09	0.10						
		with internal grilles	PEL-N-309-00038-00001				0.32	0.09	0.10						
G	N/A	Solid Panel - No IG	PEL-N-309-19613-00001	-	-	-	0.32	0.02	-						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
ER = Canadian Energy Rating



(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

U-Factor values shown are based on a standard sill and pine interior.

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Glazing Performance - Total Unit

1 **Find fixed sidelight panel type and size.** Note category (A, B, C)

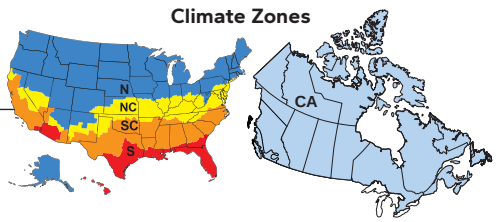
Sidelight Style		Full Light / 3 Light Equal / 4 Light Equal		3/4 Light		2/3 Light		1/2 Light 1 Panel		Craftsman Light	
Call Width		12	14	12	14	12	14	12	14	12	14
Call Height	80	A	A	B	A	B	A	C	B	C	C
	82	A	A	B	A	B	A	C	B	C	C
	84	A	A	A	A	B	A	C	B	C	C
	96	A	A	A	A	A	A	B	A	C	C

2 **Cross reference thermal table below with fixed sidelight panel matrix in Step 1.**

Category	Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]			Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
				Ext.	Int.		U-Factor	SHGC	VLT	U. S. Zone				Canada[2] ER	Canada[2] Zone
	Fixed Dual-Pane Glazing - Aluminum-Clad Exterior Sidelight									N	NC	SC	S		CA
A	3/4"	Clear IG	PEL-N-310-02020-00001	3	3	air	0.39	0.34	0.35						
		with grilles-between-the-glass	PEL-N-310-02020-00002				0.39	0.26	0.26						
		with internal grilles	PEL-N-310-02021-00001				0.38	0.26	0.26						
	3/4"	Advanced Low-E IG	PEL-N-310-02041-00001	3	3	argon	0.29	0.16	0.30						
		with grilles-between-the-glass	PEL-N-310-02041-00002				0.29	0.13	0.22						
		with internal grilles	PEL-N-310-02042-00001				0.29	0.13	0.22						
	3/4"	SunDefense Low-E IG	PEL-N-310-02044-00001	3	3	argon	0.29	0.12	0.27						
		with grilles-between-the-glass	PEL-N-310-02044-00002				0.29	0.10	0.21						
		with internal grilles	PEL-N-310-02045-00001				0.29	0.10	0.21						
	3/4"	SunDefense+ Low-E IG	PEL-N-310-02053-00001	3	3	argon	0.27	0.12	0.27			SC	S		
		with grilles-between-the-glass	PEL-N-310-02053-00002				0.27	0.10	0.20			SC	S		
		with internal grilles	PEL-N-310-02054-00001				0.28	0.10	0.20			SC	S		
	3/4"	AdvancedComfort Low-E IG	PEL-N-310-02050-00001	3	3	argon	0.27	0.16	0.29			SC	S		
		with grilles-between-the-glass	PEL-N-310-02050-00002				0.27	0.13	0.22			SC	S		
		with internal grilles	PEL-N-310-02051-00001				0.29	0.13	0.22						
	3/4"	Natural Sun Low-E IG	PEL-N-310-02047-00001	3	3	argon	0.30	0.30	0.34						
		with grilles-between-the-glass	PEL-N-310-02047-00002				0.30	0.23	0.25						
		with internal grilles	PEL-N-310-02048-00001				0.30	0.23	0.25						
	3/4"	Natural Sun+ Low-E IG	PEL-N-310-02056-00001	3	3	argon	0.28	0.27	0.33						
		with grilles-between-the-glass	PEL-N-310-02056-00002				0.28	0.21	0.25			SC	S		
		with internal grilles	PEL-N-310-02057-00001				0.29	0.21	0.25						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
ER = Canadian Energy Rating

Climate Zones



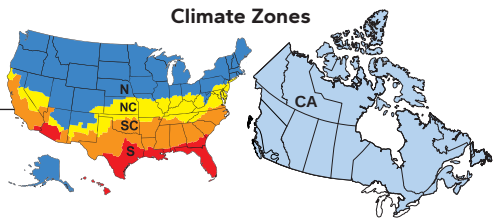
(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.
(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.
U-Factor values shown are based on a standard sill and pine interior.
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Glazing Performance - Total Unit

Category	Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]			Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
				Ext.	Int.		U-Factor	SHGC	VLT	U. S. Zone				Canada[2] ER	Canada[2] Zone
		Fixed Dual-Pane Glazing - Aluminum-Clad Exterior Sidelight								N	NC	SC	S		CA
B	3/4"	Clear IG	PEL-N-310-01347-00001	3	3	air	0.38	0.26	0.26						
		with grilles-between-the-glass	PEL-N-310-01347-00002				0.38	0.23	0.23						
		with internal grilles	PEL-N-310-01348-00001				0.36	0.23	0.23						
	3/4"	Advanced Low-E IG	PEL-N-310-01368-00001	3	3	argon	0.30	0.13	0.22						
		with grilles-between-the-glass	PEL-N-310-01368-00002				0.30	0.11	0.19						
		with internal grilles	PEL-N-310-01369-00001				0.30	0.11	0.19						
	3/4"	SunDefense Low-E IG	PEL-N-310-01371-00001	3	3	argon	0.30	0.10	0.21						
		with grilles-between-the-glass	PEL-N-310-01371-00002				0.30	0.09	0.18						
		with internal grilles	PEL-N-310-01372-00001				0.30	0.09	0.18						
	3/4"	SunDefense+ Low-E IG	PEL-N-310-01380-00001	3	3	argon	0.29	0.10	0.20						
		with grilles-between-the-glass	PEL-N-310-01380-00002				0.29	0.09	0.17						
		with internal grilles	PEL-N-310-01381-00001				0.29	0.09	0.17						
	3/4"	AdvancedComfort Low-E IG	PEL-N-310-01377-00001	3	3	argon	0.29	0.13	0.22						
		with grilles-between-the-glass	PEL-N-310-01377-00002				0.29	0.11	0.19						
		with internal grilles	PEL-N-310-01378-00001				0.30	0.11	0.19						
	3/4"	Natural Sun Low-E IG	PEL-N-310-01374-00001	3	3	argon	0.31	0.23	0.25						
		with grilles-between-the-glass	PEL-N-310-01374-00002				0.31	0.20	0.22						
		with internal grilles	PEL-N-310-01375-00001				0.30	0.20	0.22						
	3/4"	Natural Sun+ Low-E IG	PEL-N-310-01383-00001	3	3	argon	0.29	0.21	0.25						
		with grilles-between-the-glass	PEL-N-310-01383-00002				0.29	0.18	0.21						
		with internal grilles	PEL-N-310-01384-00001				0.30	0.18	0.21						
C	3/4"	Clear IG	PEL-N-310-00674-00001	3	3	air	0.36	0.20	0.19						
		with grilles-between-the-glass	PEL-N-310-00674-00002				0.36	0.17	0.17						
		with internal grilles	PEL-N-310-00675-00001				0.35	0.17	0.17						
	3/4"	Advanced Low-E IG	PEL-N-310-00695-00001	3	3	argon	0.31	0.10	0.17						
		with grilles-between-the-glass	PEL-N-310-00695-00002				0.31	0.09	0.14						
		with internal grilles	PEL-N-310-00696-00001				0.31	0.09	0.14						
	3/4"	SunDefense Low-E IG	PEL-N-310-00698-00001	3	3	argon	0.31	0.08	0.15						
		with grilles-between-the-glass	PEL-N-310-00698-00002				0.31	0.07	0.13						
		with internal grilles	PEL-N-310-00699-00001				0.31	0.07	0.13						
	3/4"	SunDefense+ Low-E IG	PEL-N-310-00707-00001	3	3	argon	0.30	0.08	0.15						
		with grilles-between-the-glass	PEL-N-310-00707-00002				0.30	0.07	0.13						
		with internal grilles	PEL-N-310-00708-00001				0.30	0.07	0.13						
	3/4"	AdvancedComfort Low-E IG	PEL-N-310-00704-00001	3	3	argon	0.30	0.10	0.16						
		with grilles-between-the-glass	PEL-N-310-00704-00002				0.30	0.09	0.14						
		with internal grilles	PEL-N-310-00705-00001				0.30	0.09	0.14						
	3/4"	Natural Sun Low-E IG	PEL-N-310-00701-00001	3	3	argon	0.31	0.18	0.19						
		with grilles-between-the-glass	PEL-N-310-00701-00002				0.31	0.15	0.16						
		with internal grilles	PEL-N-310-00702-00001				0.31	0.15	0.16						
	3/4"	Natural Sun+ Low-E IG	PEL-N-310-00710-00001	3	3	argon	0.30	0.16	0.18						
		with grilles-between-the-glass	PEL-N-310-00710-00002				0.30	0.14	0.16						
		with internal grilles	PEL-N-310-00711-00001				0.31	0.14	0.16						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
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Climate Zones



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Grille Profiles

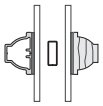
Grilles-Between-the-Glass



3/4" GBG

Integral Light Technology® Grilles

Ogee Clad Exterior - Ogee Wood Interior Grilles



7/8" ILT

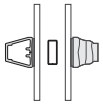


1-1/4" ILT

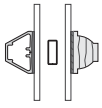


2" ILT

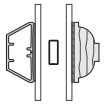
Putty Clad Exterior - Ogee Wood Interior Grilles



5/8" ILT

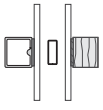


7/8" ILT

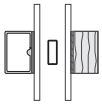


1-1/4" ILT

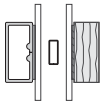
Square Clad Exterior - Square Wood Interior Grilles



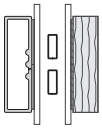
5/8" ILT



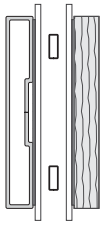
7/8" ILT



1-1/4" ILT



2" ILT

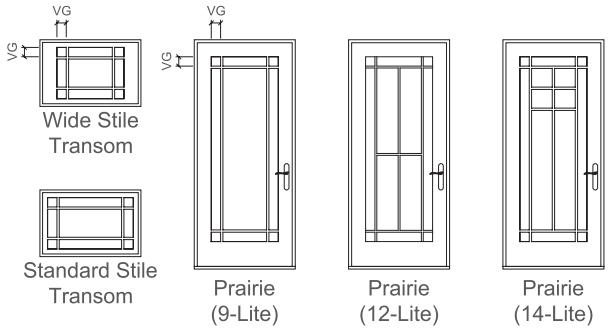


4" ILT

Grille Patterns

Integral Light Technology® Grilles

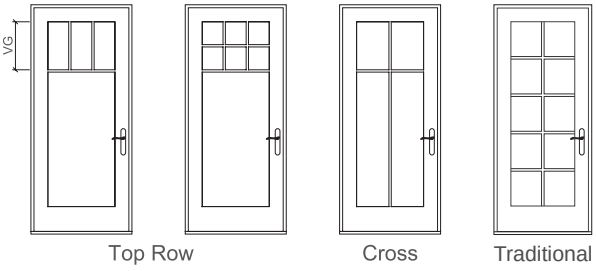
Prairie Lite Patterns



Transoms will have 9 lights.

Standard corner lite dimension for Prairie patterns = 3-1/2" VG.

Other Available Patterns



Top Row

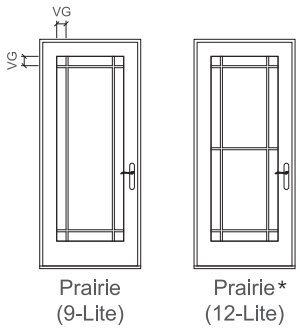
- Standard visible glass to separator bar = 14" or half of total visible glass height, whichever is smaller.

Cross

- Standard visible glass to separator bar = one-quarter of total visible glass height.

Grilles-Between-the-Glass

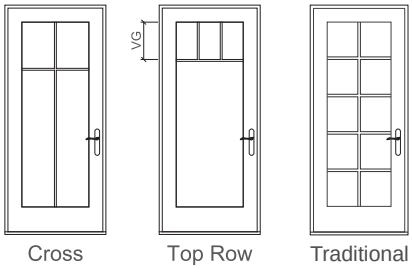
Prairie Lite Patterns



Prairie

- Standard corner lite dimension = 3-1/2" VG.
- *9-Lite Prairie requires a support bar when VG height > 73-3/4", configuration will have 12 lites.

Other Available Patterns



Cross

- Horizontal bar is 1/4 of visible glass from the top in door panels.
- Not available in transoms.

Top Row

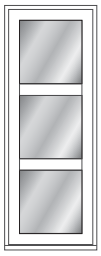
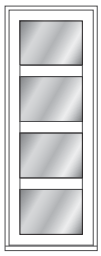
- Horizontal bar location from the top VG will vary by panel style.
- Transoms with frame heights ≥ 21", the horizontal bar will be positioned at 1/2 the visible glass height.
- Top Row not available in transoms with frame height <21".

VG = Visible Glass

Lite dimensions noted can vary.

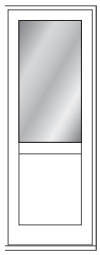
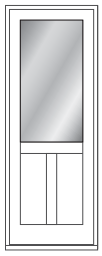
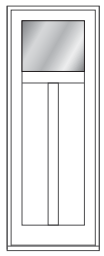
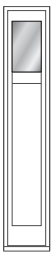
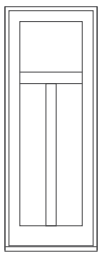
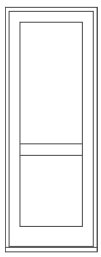
Custom grille division is available; for details contact your local Pella sales representative.

Panel Styles

Panel Style			Glazing Profiles Exterior / Interior	Panel Options	Grille Options
		**Full Light**	Putty/Ogee Ogee/Ogee	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill	No Grilles Integral Light Technology® Grilles-Between-The-Glass
		**Full Light**	Square/Square	4-9/16" Bottom Rail Standard Sill 5-3/16" Bottom Rail Low Profile Sill	No Grilles Integral Light Technology® Grilles-Between-The-Glass
		**3 Light Equal**	Square/Square	4-9/16" Bottom Rail Standard Sill 5-3/16" Bottom Rail Low Profile Sill	4" Integral Light Technology® grilles (required)
		**4 Light Equal**	Square/Square	4-9/16" Bottom Rail Standard Sill 5-3/16" Bottom Rail Low Profile Sill	4" Integral Light Technology® grilles (required)
		**3/4 Light**	Putty/Ogee Ogee/Ogee Square/Square	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill Raised Panels[1] Shaker Panels	No Grilles Integral Light Technology® Grilles-Between-The-Glass

(1) Interior style of all clad panels is Shaker only.
Upper Clad panels are only available in Shaker style.
For details contact your local Pella sales representative.

Panel Styles

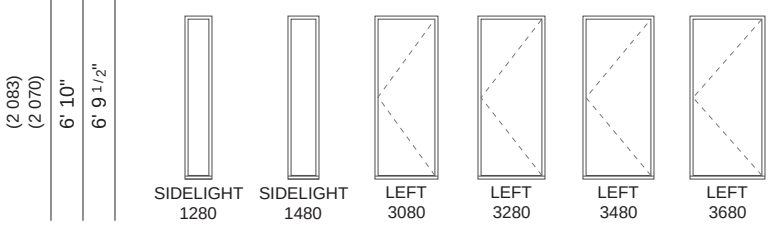
Panel Style			Glazing Profiles Exterior / Interior	Panel Options	Grille Options
		**2/3 Light**	Putty/Ogee Ogee/Ogee Square/Square	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill Shaker Panels	No Grilles Integral Light Technology® Grilles-Between-The-Glass
		**1/2 Light 1 Panel**	Putty/Ogee Ogee/Ogee Square/Square	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill Raised Panels[1] Shaker Panels	No Grilles Integral Light Technology® Grilles-Between-The-Glass
	—	**1/2 Light 2 Panel**	Putty/Ogee Ogee/Ogee Square/Square	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill Raised Panels[1] Shaker Panels	No Grilles Integral Light Technology® Grilles-Between-The-Glass
		**Craftsman Light**	Putty/Ogee Ogee/Ogee Square/Square	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill Shaker Panels	No Grilles Integral Light Technology® Grilles-Between-The-Glass
	—	**Craftsman**	Putty/Ogee Ogee/Ogee Square/Square	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill Shaker Panels	—
	—	**2-Panel Square**	Putty/Ogee Ogee/Ogee Square/Square	8-1/8" Bottom Rail Standard Sill 8-3/4" Bottom Rail Low Profile Sill Shaker Panels	—

(1) Interior style of all clad panels is Shaker only.
Upper Clad panels are only available in Shaker style.
For details contact your local Pella sales representative.

Size Tables

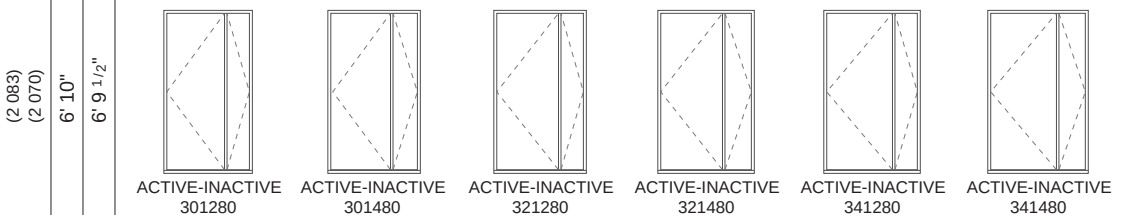
6' 8" Single Doors and Sidelight

	(362) (343)	(413) (394)	(819) (800)	(870) (851)	(933) (914)	(972) (953)
Opening	1' 2 1/4"	1' 4 1/4"	2' 8 1/4"	2' 10 1/4"	3' 0 3/4"	3' 2 1/4"
Frame	1' 1 1/2"	1' 3 1/2"	2' 7 1/2"	2' 9 1/2"	3' 0"	3' 1 1/2"
(2 083) (2 070) 6' 10" / 6' 9 1/2"	SIDELIGHT 1280	SIDELIGHT 1480	LEFT 3080	LEFT 3280	LEFT 3480	LEFT 3680

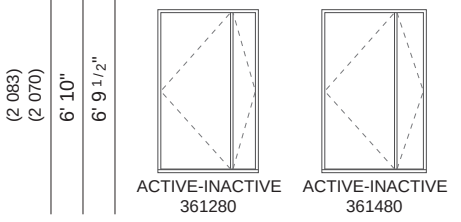


6' 8" 1 Panel Hinged Sidelight Active-Inactive

	(1 143) (1 124)	(1 194) (1 175)	(1 194) (1 175)	(1 245) (1 226)	(1 257) (1 238)	(1 308) (1 289)
Opening	3' 9"	3' 11"	3' 11"	4' 1"	4' 1 1/2"	4' 3 1/2"
Frame	3' 8 1/4"	3' 10 1/4"	3' 10 1/4"	4' 0 1/4"	4' 0 3/4"	4' 2 3/4"
(2 083) (2 070) 6' 10" / 6' 9 1/2"	ACTIVE-INACTIVE 301280	ACTIVE-INACTIVE 301480	ACTIVE-INACTIVE 321280	ACTIVE-INACTIVE 321480	ACTIVE-INACTIVE 341280	ACTIVE-INACTIVE 341480



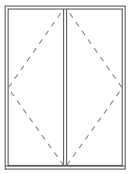
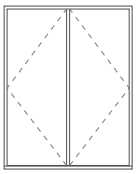
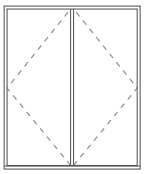
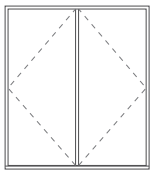
	(1 295) (1 276)	(1 346) (1 327)
Opening	4' 3"	4' 5"
Frame	4' 2 1/4"	4' 4 1/4"
(2 083) (2 070) 6' 10" / 6' 9 1/2"	ACTIVE-INACTIVE 361280	ACTIVE-INACTIVE 361480



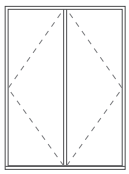
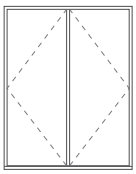
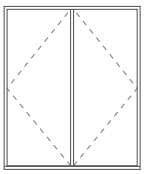
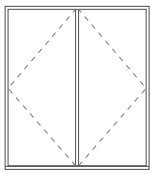
Not to scale.
All doors and sidelights are glazed with tempered glass.
Single doors - Left-hand shown. Right-hand and fixed are also available.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available

Size Tables

6' 8" Double Doors Active-Inactive

	(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
Opening	5' 3"	5' 7"	6' 0"	6' 3"
Frame	5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
(2 083) (2 070) 6' 10" 6' 9 1/2"				
	ACTIVE-INACTIVE 6080	ACTIVE-INACTIVE 6480	ACTIVE-INACTIVE 6880	ACTIVE-INACTIVE 7280

6' 8" Double Doors Active-Passive

	(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
Opening	5' 3"	5' 7"	6' 0"	6' 3"
Frame	5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
(2 083) (2 070) 6' 10" 6' 9 1/2"				
	ACTIVE-PASSIVE 6080	ACTIVE-PASSIVE 6480	ACTIVE-PASSIVE 6880	ACTIVE-PASSIVE 7280

Not to scale.
All doors and sidelights are glazed with tempered glass.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available.

Size Tables

6' 10" Single Doors and Sidelight

	(362) (343)	(413) (394)	(819) (800)	(870) (851)	(933) (914)	(972) (953)
Opening	1' 2 1/4"	1' 4 1/4"	2' 8 1/4"	2' 10 1/4"	3' 0 3/4"	3' 2 1/4"
Frame	1' 1 1/2"	1' 3 1/2"	2' 7 1/2"	2' 9 1/2"	3' 0"	3' 1 1/2"
(2 137) (2 124) 7' 0 1/8"	6' 11 5/8"					
	SIDELIGHT 1282	SIDELIGHT 1482	LEFT 3082	LEFT 3282	LEFT 3482	LEFT 3682

6' 10" 1 Panel Hinged Sidelight Active-Inactive

	(1 143) (1 124)	(1 194) (1 175)	(1 194) (1 175)	(1 245) (1 226)	(1 257) (1 238)	(1 308) (1 289)
Opening	3' 9"	3' 11"	3' 11"	4' 1"	4' 1 1/2"	4' 3 1/2"
Frame	3' 8 1/4"	3' 10 1/4"	3' 10 1/4"	4' 0 1/4"	4' 0 3/4"	4' 2 3/4"
(2 137) (2 124) 7' 0 1/8"	6' 11 5/8"					
	ACTIVE-INACTIVE 301282	ACTIVE-INACTIVE 301482	ACTIVE-INACTIVE 321282	ACTIVE-INACTIVE 321482	ACTIVE-INACTIVE 341282	ACTIVE-INACTIVE 341482

	(1 295) (1 276)	(1 346) (1 327)
Opening	4' 3"	4' 5"
Frame	4' 2 1/4"	4' 4 1/4"
(2 137) (2 124) 7' 0 1/8"	6' 11 5/8"	
	ACTIVE-INACTIVE 361282	ACTIVE-INACTIVE 361482

Not to scale.
All doors and sidelights are glazed with tempered glass.
Single doors - Left-hand shown. Right-hand and fixed are also available.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available

Size Tables

6' 10" Double Doors Active-Inactive

	(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
Opening	5' 3"	5' 7"	6' 0"	6' 3"
Frame	5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
(2 137) (2 124) 7' 0 1/8"				
6' 11 5/8"				
	ACTIVE-INACTIVE 6082	ACTIVE-INACTIVE 6482	ACTIVE-INACTIVE 6882	ACTIVE-INACTIVE 7282

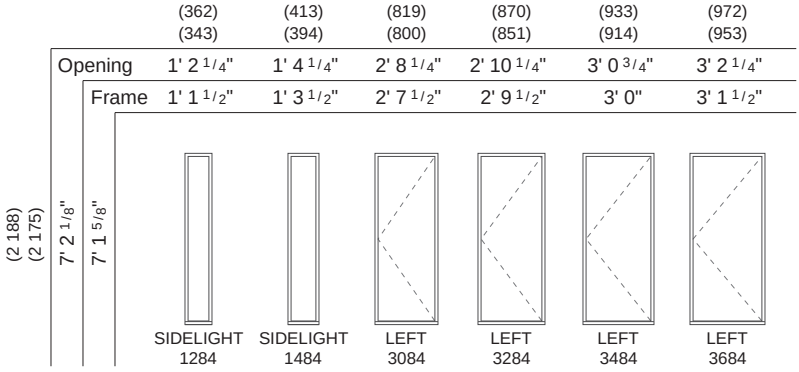
6' 10" Double Doors Active-Passive

	(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
Opening	5' 3"	5' 7"	6' 0"	6' 3"
Frame	5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
(2 137) (2 124) 7' 0 1/8"				
6' 11 5/8"				
	ACTIVE-PASSIVE 6082	ACTIVE-PASSIVE 6482	ACTIVE-PASSIVE 6882	ACTIVE-PASSIVE 7282

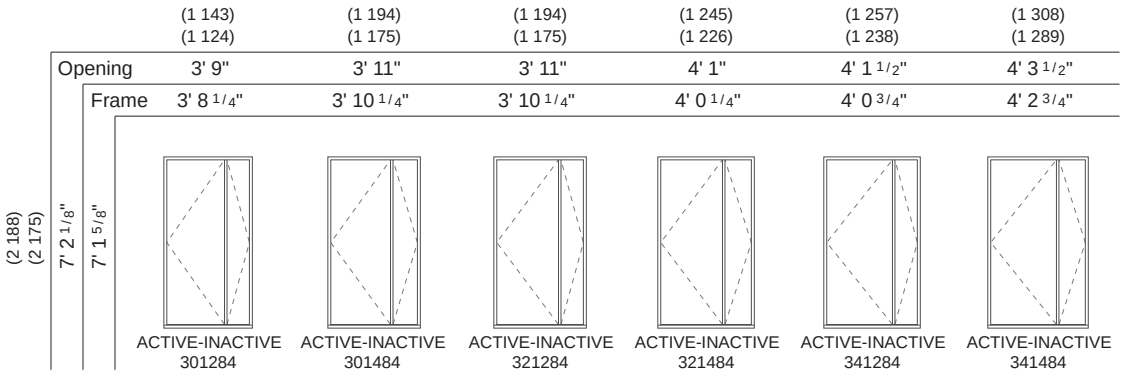
Not to scale.
All doors and sidelights are glazed with tempered glass.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available.

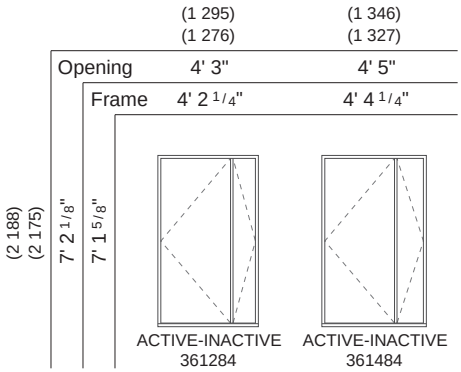
Size Tables

7' 0" Single Doors and Sidelight



7' 0" 1 Panel Hinged Sidelight Active-Inactive

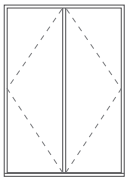
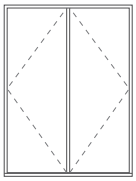
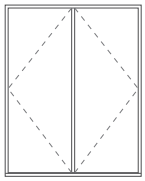
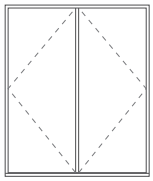




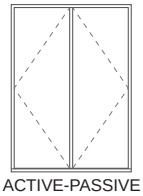
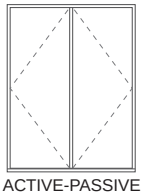
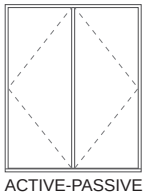
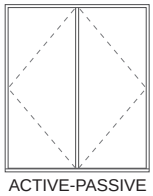
Not to scale.
All doors and sidelights are glazed with tempered glass.
Single doors - Left-hand shown. Right-hand and fixed are also available.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available

Size Tables

7' 0" Double Doors Active-Inactive

	(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
Opening	5' 3"	5' 7"	6' 0"	6' 3"
Frame	5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
(2 188) (2 175) 7' 2 1/8"				
7' 1 5/8"				
	ACTIVE-INACTIVE 6084	ACTIVE-INACTIVE 6484	ACTIVE-INACTIVE 6884	ACTIVE-INACTIVE 7284

7' 0" Double Doors Active-Passive

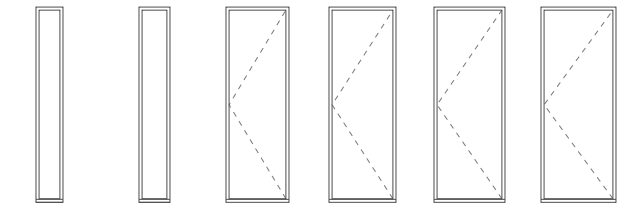
	(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
Opening	5' 3"	5' 7"	6' 0"	6' 3"
Frame	5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
(2 188) (2 175) 7' 2 1/8"				
7' 1 5/8"				
	ACTIVE-PASSIVE 6084	ACTIVE-PASSIVE 6484	ACTIVE-PASSIVE 6884	ACTIVE-PASSIVE 7284

Not to scale.
All doors and sidelights are glazed with tempered glass.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available.

Size Tables

8' 0" Single Doors and Sidelight

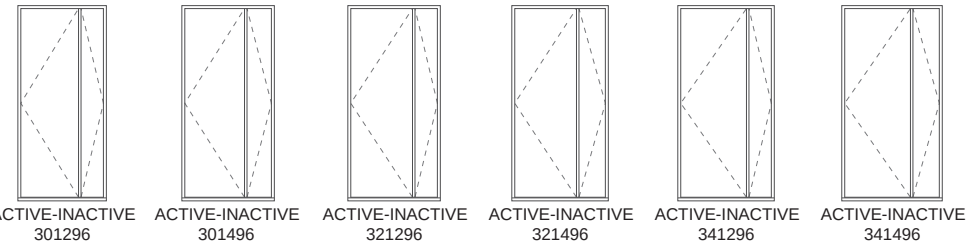
	(362) (343)	(413) (394)	(819) (800)	(870) (851)	(933) (914)	(972) (953)
Opening	1' 2 1/4"	1' 4 1/4"	2' 8 1/4"	2' 10 1/4"	3' 0 3/4"	3' 2 1/4"
Frame	1' 1 1/2"	1' 3 1/2"	2' 7 1/2"	2' 9 1/2"	3' 0"	3' 1 1/2"
(2 492) (2 480)	8' 2 1/8"					
8' 1 5/8"						



SIDELIGHT 1296	SIDELIGHT 1496	LEFT 3096	LEFT 3296	LEFT 3496	LEFT 3696

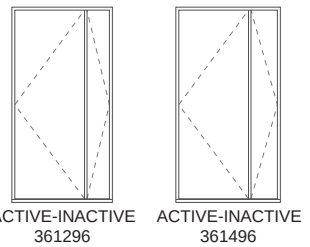
8' 0" 1 Panel Hinged Sidelight Active-Inactive

	(1 143) (1 124)	(1 194) (1 175)	(1 194) (1 175)	(1 245) (1 226)	(1 257) (1 238)	(1 308) (1 289)
Opening	3' 9"	3' 11"	3' 11"	4' 1"	4' 1 1/2"	4' 3 1/2"
Frame	3' 8 1/4"	3' 10 1/4"	3' 10 1/4"	4' 0 1/4"	4' 0 3/4"	4' 2 3/4"
(2 492) (2 480)	8' 2 1/8"					
8' 1 5/8"						



ACTIVE-INACTIVE 301296	ACTIVE-INACTIVE 301496	ACTIVE-INACTIVE 321296	ACTIVE-INACTIVE 321496	ACTIVE-INACTIVE 341296	ACTIVE-INACTIVE 341496

	(1 295) (1 276)	(1 346) (1 327)
Opening	4' 3"	4' 5"
Frame	4' 2 1/4"	4' 4 1/4"
(2 492) (2 480)	8' 2 1/8"	
8' 1 5/8"		

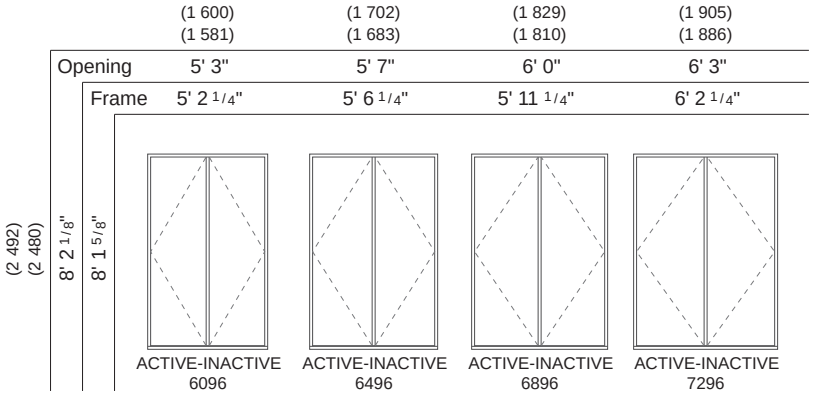


ACTIVE-INACTIVE 361296	ACTIVE-INACTIVE 361496

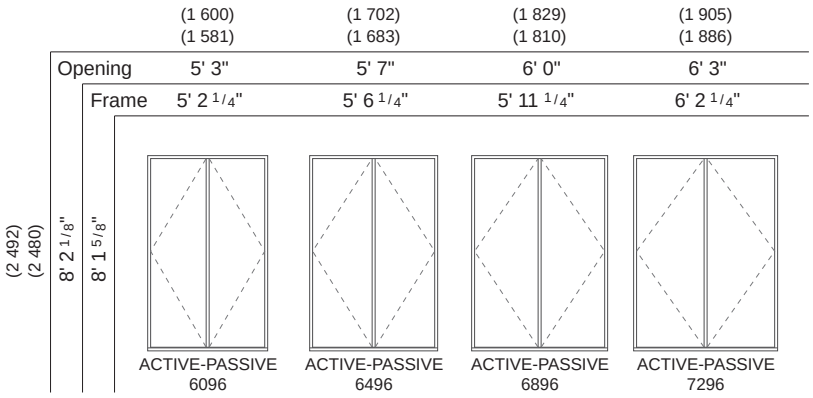
Not to scale.
All doors and sidelights are glazed with tempered glass.
Single doors - Left-hand shown. Right-hand and fixed are also available.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available

Size Tables

8' 0" Double Doors Active-Inactive



8' 0" Double Doors Active-Passive



Not to scale.
All doors and sidelights are glazed with tempered glass.
Double-swing doors - Active-Inactive and Active-Passive shown. Inactive-Active and Passive-Active also available.

Size Tables

Standard Stile Transoms for Single Doors

		(819) (800)	(870) (851)	(933) (914)	(972) (953)
	Opening	2' 8 1/4"	2' 10 1/4"	3' 0 3/4"	3' 2 1/4"
	Frame	2' 7 1/2"	2' 9 1/2"	3' 0"	3' 1 1/2"
(375) (356)	1' 2 3/4"	1' 2"	3014	3214	3414	3614
(451) (432)	1' 5 3/4"	1' 5"	3017	3217	3417	3617
(654) (635)	2' 1 3/4"	2' 1"	3025	3225	3425	3625

Standard Stile Transoms for Double Doors

(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
5' 3"	5' 7"	6' 0"	6' 3"
5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
6014 T	6414	6814	7214 T
6017	6417	6817	7217 T
6025	6425	6825	7225

Wide Stile Transoms for Single Doors

		(819) (800)	(870) (851)	(933) (914)	(972) (953)
	Opening	2' 8 1/4"	2' 10 1/4"	3' 0 3/4"	3' 2 1/4"
	Frame	2' 7 1/2"	2' 9 1/2"	3' 0"	3' 1 1/2"
(375) (356)	1' 2 3/4"	1' 2"	3014	3214	3414	3614
(451) (432)	1' 5 3/4"	1' 5"	3017	3217	3417	3617
(654) (635)	2' 1 3/4"	2' 1"	3025	3225	3425	3625

Wide Stile Transoms for Double Doors

(1 600) (1 581)	(1 702) (1 683)	(1 829) (1 810)	(1 905) (1 886)
5' 3"	5' 7"	6' 0"	6' 3"
5' 2 1/4"	5' 6 1/4"	5' 11 1/4"	6' 2 1/4"
6014	6414	6814 T	7214 T
6017	6417	6817	7217
6025	6425	6825	7225

Not to scale.
T Tempered glass is standard.

Special Sizes and Dimensions

Special Size Frame Dimensions [1]

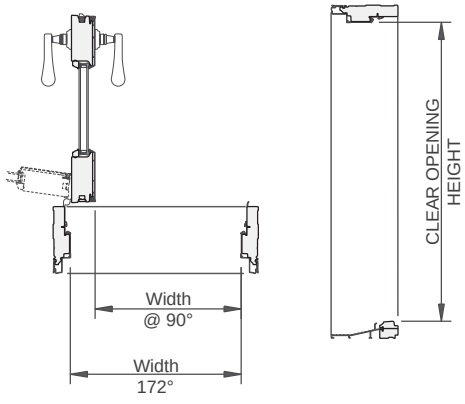
Door Type	Frame Width		Frame Height	
	Minimum	Maximum	Minimum	Maximum
Transoms	31-1/2" (800)	74-1/4" (1 886)	14" (356)	25" (635)
Sidelight (Fixed)	13-1/2" (343)	18" (457)	79-1/2" (2 019)	97-1/2" (2 477)
Single Doors	31-1/2" (800)	37-1/2" (953)	79-1/2" (2 019)	97-1/2" (2 477)
Single Doors with Hinged Sidelight	44-1/4" (1 124)	52-1/4" (1 327)	79-1/2" (2 019)	97-1/2" (2 477)
Double Doors (AI-IA)	62-1/4" (1 581)	74-1/4" (1 886)	79-1/2" (2 019)	97-1/2" (2 477)
Double Doors (AP-PA)	62-1/4" (1 581)	74-1/4" (1 886)	79-1/2" (2 019)	97-1/2" (2 477)

Panel Styles	
Door Panel	Sidelight Panel
Full Light	Full Light
3 Light Equal	3 Light Equal
4 Light Equal	4 Light Equal
3/4 Light	3/4 Light
2/3 Light	2/3 Light
1/2 Light 1 Panel	1/2 Light 1 Panel
1/2 Light 2 Panel	--
2 Panel Square	--
Craftsman Light	Craftsman Light
Craftsman	--

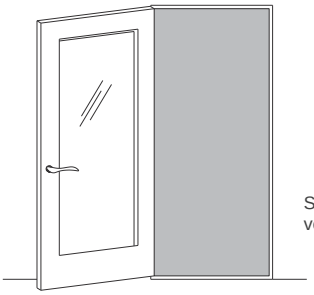
Clear Opening Dimensions

	Configuration	Width	Height
Clear Opening (@ 90°)	Single Door	FW - 5-5/16"	Std. Sill FH - 3-1/16" / Low Profile Sill FH - 2"
	Single Door with 12" hinged sidelight	(FW - 11-1/4") - 6-7/8"	
	Single Door with 14" hinged sidelight	(FW - 13-1/4") - 6-7/8"	
	Double Doors (Active/Single Panel)	(FW ÷ 2) - 5"	
	Double Doors and Single Doors with Hinged Sidelight (Both Panels)	FW - 7-1/2"	
Clear Opening (@ 172°)	Single Door	FW - 3-3/16"	Std. Sill FH - 3-1/16" / Low Profile Sill FH - 2"
	Single Door with 12" hinged sidelight	(FW - 11-1/4") - 4-5/8"	
	Single Door with 14" hinged sidelight	(FW - 13-1/4") - 4-5/8"	
	Double Doors (Active/Single Panel)	(FW ÷ 2) - 2-13/16"	
	Double Doors and Single Doors with Hinged Sidelight (Both Panels)	FW - 3"	

Clear Opening Schematic



CLEAR OPENING WIDTH



Shaded portion shows vent area of door.

FW = Frame Width, FH = Frame Height

(1) Available within size range shown.

Keep special size frame dimensions to the nearest 1/4" increment.

To convert areas to square meters (m^2), multiply square feet by 0.0929.

Glass Width Formula Table

Panel Style	Unit	Visible Glass Width (VGW)	Actual Glass Width (AGW)
All	Sidelight	FW - 6-5/8"	FW - 5-3/8"
	Single Door	FW - 11-5/8"	FW - 10-3/8"
	Double Door	FW ÷ 2 - 11-1/4"	FW ÷ 2 - 10"
	Hinging Sidelight with 12" Sidelight	Inactive = 6-7/8" Active = FW - 24-3/8"	Inactive = 8-1/8" Active = FW - 23-1/8"
	Hinging Sidelight with 14" Sidelight	Inactive = 8-7/8" Active = FW - 26-3/8"	Inactive = 10-1/8" Active = FW - 25-1/8"

There is a 1.25" difference between Visible Glass Width and Actual Glass Width.
FW = Frame Width

Glass Height Formula Table

			Visible Glass Size Formulas			Actual Glass Size Formulas		
Panel Style	Exterior Glazing Profile(s)	Intermediate Rail Location (IRL)	Height (VGH)	Upper Height (VUGH)	Lower Height (VLGH)	Height (AGH)	Upper Height (AUGH)	Lower Height (ALGH)
Full Light	Putty Ogee	--	FH - 15-3/4"	--	--	FH - 14-1/2"	--	--
Full Light 3 Light Equal 4 Light Equal	Square	--	FH - 12-3/16"	--	--	FH - 10-15/16"	--	--
1/2 Light 1 Panel 1/2 Light 2 Panel 2 Panel Square	Putty Ogee Square	39-15/16"	--	FH - IRL - 8-1/16"	IRL - 12-3/16"	--	FH - IRL - 6-13/16"	IRL - 10-15/16"
2/3 Light	Putty Ogee Square	28-1/2"	--			--		
3/4 Light	Putty Ogee Square	19-13/16"	--			--		
Craftsman Craftsman Light	Putty Ogee Square	FH - 27-13/16"	--			--		

There is a 1.25" difference between Visible Glass Height and Actual Glass Height.
Intermediate Rail Location is measured from bottom of sill to centerline of intermediate rail.
FH = Frame Height
Panel Styles: [2 Panel Square] [Craftsman] utilize insulated panels rather than glass while retaining the same size.

Design Data

In-Swing Door Design Data

	Unit	Single and Double Doors	Clear Opening (Inches) [1]				Vent Area (Standard Sill)	Vent Area (Low Profile Sill)	Full Light Visible Glass Ft^2 [3]	Standard Glass Thickness (mm) Tempered	Performance Class & Grade [2]		
			Width (Inches) (172°)	Width (Inches) (90°)	Height (Standard Sill)	Height (Low Profile Sill)				Dual-Pane Glazing	Latch/ Deadbolt	Multipoint Lock	Fixed
6'8" DOORS	1280	SL	—	—	—	—	—	—	3.1	3	—	—	LC50
	1480	SL	—	—	—	—	—	—	4.1	3	—	—	LC50
	3080	F	—	—	—	—	—	—	9.1	3	—	—	LC50
	3280	F	—	—	—	—	—	—	10.0	3	—	—	LC50
	3480	F	—	—	—	—	—	—	11.1	3	—	—	LC50
	3680	F	—	—	—	—	—	—	11.8	3	—	—	LC50
	3080	L / R	28-5/16	26-3/16	78-7/16	79-1/2	15.4	15.6	9.1	3	R20	LC50	—
	3280	L / R	30-5/16	28-3/16	78-7/16	79-1/2	16.5	16.7	10.0	3	R20	LC50	—
	3480	L / R	32-13/16	30-11/16	78-7/16	79-1/2	17.9	18.1	11.1	3	R20	LC50	—
	3680	L / R	34-5/16	32-3/16	78-7/16	79-1/2	18.7	18.9	11.8	3	R20	LC50	—
	301280	AI/IA	41-1/4 / 28-3/8	36-3/4 / 26-1/8	78-7/16	79-1/2	15.5	15.7	12.2	3	R20	LC50	—
	301480	AI/IA	43-1/4 / 28-3/8	38-3/4 / 26-1/8	78-7/16	79-1/2	15.5	15.7	13.1	3	R20	LC50	—
	321280	AI/IA	43-1/4 / 30-3/8	38-3/4 / 28-1/8	78-7/16	79-1/2	16.5	16.8	13.1	3	R20	LC50	—
	321480	AI/IA	45-1/4 / 30-3/8	40-3/4 / 28-1/8	78-7/16	79-1/2	16.5	16.8	14.0	3	R20	LC50	—
	341280	AI/IA	45-3/4 / 32-7/8	41-1/4 / 30-5/8	78-7/16	79-1/2	17.9	18.1	14.3	3	R20	LC50	—
	341480	AI/IA	47-3/4 / 32-7/8	43-1/4 / 30-5/8	78-7/16	79-1/2	17.9	18.1	15.2	3	R20	LC50	—
	361280	AI/IA	47-1/4 / 34-3/8	42-3/4 / 32-1/8	78-7/16	79-1/2	18.7	19.0	15.0	3	R20	LC50	—
	361480	AI/IA	49-1/4 / 34-3/8	44-3/4 / 32-1/8	78-7/16	79-1/2	18.7	19.0	15.9	3	R20	LC50	—
	6080	AI/IA	59-1/4 / 28-5/16	54-3/4 / 26-1/8	78-7/16	79-1/2	15.4	15.6	18.1	3	R20	LC50	—
	6480	AI/IA	63-1/4 / 30-5/16	58-3/4 / 28-1/8	78-7/16	79-1/2	16.5	16.7	20.0	3	R20	LC50	—
	6880	AI/IA	68-1/4 / 32-13/16	63-3/4 / 30-5/8	78-7/16	79-1/2	17.9	18.1	22.3	3	R20	LC50	—
	7280	AI/IA	71-1/4 / 34-5/16	66-3/4 / 32-1/8	78-7/16	79-1/2	18.7	18.9	23.6	3	R20	LC50	—
	6080	PA / AP	59-1/4 / 28-5/16	54-3/4 / 26-1/8	78-7/16	79-1/2	15.4	15.6	18.1	3	R20	LC50	—
	6480	PA / AP	63-1/4 / 30-5/16	58-3/4 / 28-1/8	78-7/16	79-1/2	16.5	16.7	20.0	3	R20	LC50	—
	6880	PA / AP	68-1/4 / 32-13/16	63-3/4 / 30-5/8	78-7/16	79-1/2	17.9	18.1	22.3	3	R20	LC50	—
	7280	PA / AP	71-1/4 / 34-5/16	66-3/4 / 32-1/8	78-7/16	79-1/2	18.7	18.9	23.6	3	R20	LC50	—

(—) = Not Applicable
(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.
(2) Maximum performance when glazed with the appropriate glass thickness. Performance ratings apply to Standard sill only.
(3) Visible glass calculations representative of a putty or ogee panel profile.
All doors and sidelights are Tempered glass.
To convert areas to square meters (m^2), multiply square feet by 0.0929.

Design Data

In-Swing Door Design Data

	Unit	Single and Double Doors	Clear Opening (Inches) [1]				Vent Area (Standard Sill)	Vent Area (Low Profile Sill)	Full Light Visible Glass Ft^2 [3]	Standard Glass Thickness (mm) Tempered	Performance Class & Grade [2]		
			Width (Inches) (172°)	Width (Inches) (90°)	Height (Standard Sill)	Height (Low Profile Sill)				Dual-Pane Glazing	Latch/ Deadbolt	Multipoint Lock	Fixed
6' 10" DOORS	1282	SL	—	—	—	—	—	—	3.2	3	—	—	LC50
	1482	SL	—	—	—	—	—	—	4.2	3	—	—	LC50
	3082	F	—	—	—	—	—	—	9.4	3	—	—	LC50
	3282	F	—	—	—	—	—	—	10.3	3	—	—	LC50
	3482	F	—	—	—	—	—	—	11.5	3	—	—	LC50
	3682	F	—	—	—	—	—	—	12.2	3	—	—	LC50
	3082	L / R	28-5/16	26-3/16	80-9/16	81-5/8	15.8	16.0	9.4	3	LW R20	LC50	—
	3282	L / R	30-5/16	28-3/16	80-9/16	81-5/8	17.0	17.2	10.3	3	LW R20	LC50	—
	3482	L / R	32-13/16	30-11/16	80-9/16	81-5/8	18.4	18.6	11.5	3	LW R20	LC50	—
	3682	L / R	34-5/16	32-3/16	80-9/16	81-5/8	19.2	19.4	12.2	3	LW R20	LC50	—
	301282	AI/IA	41-1/4 / 28-3/8	36-3/4 / 26-1/8	80-9/16	81-5/8	15.9	16.1	12.6	3	LW R20	LC50	—
	301482	AI/IA	43-1/4 / 28-3/8	38-3/4 / 26-1/8	80-9/16	81-5/8	15.9	16.1	13.6	3	LW R20	LC50	—
	321282	AI/IA	43-1/4 / 30-3/8	38-3/4 / 28-1/8	80-9/16	81-5/8	17.0	17.2	13.6	3	LW R20	LC50	—
	321482	AI/IA	45-1/4 / 30-3/8	40-3/4 / 28-1/8	80-9/16	81-5/8	17.0	17.2	14.5	3	LW R20	LC50	—
	341282	AI/IA	45-3/4 / 32-7/8	41-1/4 / 30-5/8	80-9/16	81-5/8	18.4	18.6	14.7	3	LW R20	LC50	—
	341482	AI/IA	47-3/4 / 32-7/8	43-1/4 / 30-5/8	80-9/16	81-5/8	18.4	18.6	15.7	3	LW R20	LC50	—
	361282	AI/IA	47-1/4 / 34-3/8	42-3/4 / 32-1/8	80-9/16	81-5/8	19.2	19.5	15.4	3	LW R20	LC50	—
	361482	AI/IA	49-1/4 / 34-3/8	44-3/4 / 32-1/8	80-9/16	81-5/8	19.2	19.5	16.4	3	LW R20	LC50	—
	6082	AI/IA	59-1/4 / 28-5/16	54-3/4 / 26-1/8	80-9/16	81-5/8	15.8	16.0	18.7	3	LW R20	LC50	—
	6482	AI/IA	63-1/4 / 30-5/16	58-3/4 / 28-1/8	80-9/16	81-5/8	17.0	17.2	20.6	3	LW R20	LC50	—
	6882	AI/IA	68-1/4 / 32-13/16	63-3/4 / 30-5/8	80-9/16	81-5/8	18.4	18.6	23.0	3	LW R20	LC50	—
	7282	AI/IA	71-1/4 / 34-5/16	66-3/4 / 32-1/8	80-9/16	81-5/8	19.2	19.4	24.4	3	LW R20	LC50	—
	6082	PA / AP	59-1/4 / 28-5/16	54-3/4 / 26-1/8	80-9/16	81-5/8	15.8	16.0	18.7	3	LW R20	LC50	—
	6482	PA / AP	63-1/4 / 30-5/16	58-3/4 / 28-1/8	80-9/16	81-5/8	17.0	17.2	20.6	3	LW R20	LC50	—
	6882	PA / AP	68-1/4 / 32-13/16	63-3/4 / 30-5/8	80-9/16	81-5/8	18.4	18.6	23.0	3	LW R20	LC50	—
	7282	PA / AP	71-1/4 / 34-5/16	66-3/4 / 32-1/8	80-9/16	81-5/8	19.2	19.4	24.4	3	LW R20	LC50	—

(—) = Not Applicable
(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.
(2) Maximum performance when glazed with the appropriate glass thickness. Performance ratings apply to Standard sill only.
(3) Visible glass calculations representative of a putty or ogee panel profile.
All doors and sidelights are Tempered glass.
To convert areas to square meters (m^2), multiply square feet by 0.0929.

Design Data

In-Swing Door Design Data

	Unit	Single and Double Doors	Clear Opening (Inches) [1]				Vent Area (Standard Sill)	Vent Area (Low Profile Sill)	Full Light Visible Glass Ft² [3]	Standard Glass Thickness (mm) Tempered	Performance Class & Grade [2]		
			Width (Inches) (172°)	Width (Inches) (90°)	Height (Standard Sill)	Height (Low Profile Sill)				Dual-Pane Glazing	Latch/ Deadbolt	Multipoint Lock	Fixed
7' 0" DOORS	1284	SL	—	—	—	—	—	—	3.3	3	—	—	LC50
	1484	SL	—	—	—	—	—	—	4.3	3	—	—	LC50
	3084	F	—	—	—	—	—	—	9.6	3	—	—	LC50
	3284	F	—	—	—	—	—	—	10.6	3	—	—	LC50
	3484	F	—	—	—	—	—	—	11.8	3	—	—	LC50
	3684	F	—	—	—	—	—	—	12.6	3	—	—	LC50
	3084	L / R	28-5/16	26-3/16	82-9/16	83-5/8	16.2	16.4	9.6	3	LW R20	LC50	—
	3284	L / R	30-5/16	28-3/16	82-9/16	83-5/8	17.4	17.6	10.6	3	LW R20	LC50	—
	3484	L / R	32-13/16	30-11/16	82-9/16	83-5/8	18.8	19.1	11.8	3	LW R20	LC50	—
	3684	L / R	34-5/16	32-3/16	82-9/16	83-5/8	19.7	19.9	12.6	3	LW R20	LC50	—
	301284	AI/IA	41-1/4 / 28-3/8	36-3/4 / 26-1/8	82-9/16	83-5/8	16.3	16.5	13.0	3	LW R20	LC50	—
	301484	AI/IA	43-1/4 / 28-3/8	38-3/4 / 26-1/8	82-9/16	83-5/8	16.3	16.5	14.0	3	LW R20	LC50	—
	321284	AI/IA	43-1/4 / 30-3/8	38-3/4 / 28-1/8	82-9/16	83-5/8	17.4	17.6	14.0	3	LW R20	LC50	—
	321484	AI/IA	45-1/4 / 30-3/8	40-3/4 / 28-1/8	82-9/16	83-5/8	17.4	17.6	14.9	3	LW R20	LC50	—
	341284	AI/IA	45-3/4 / 32-7/8	41-1/4 / 30-5/8	82-9/16	83-5/8	18.8	19.1	15.2	3	LW R20	LC50	—
	341484	AI/IA	47-3/4 / 32-7/8	43-1/4 / 30-5/8	82-9/16	83-5/8	18.8	19.1	16.1	3	LW R20	LC50	—
	361284	AI/IA	47-1/4 / 34-3/8	42-3/4 / 32-1/8	82-9/16	83-5/8	19.7	20.0	15.9	3	LW R20	LC50	—
	361484	AI/IA	49-1/4 / 34-3/8	44-3/4 / 32-1/8	82-9/16	83-5/8	19.7	20.0	16.9	3	LW R20	LC50	—
	6084	AI/IA	59-1/4 / 28-5/16	54-3/4 / 26-1/8	82-9/16	83-5/8	16.2	16.4	19.3	3	LW R20	LC50	—
	6484	AI/IA	63-1/4 / 30-5/16	58-3/4 / 28-1/8	82-9/16	83-5/8	17.4	17.6	21.2	3	LW R20	LC50	—
	6884	AI/IA	68-1/4 / 32-13/16	63-3/4 / 30-5/8	82-9/16	83-5/8	18.8	19.1	23.7	3	LW R20	LC50	—
	7284	AI/IA	71-1/4 / 34-5/16	66-3/4 / 32-1/8	82-9/16	83-5/8	19.7	19.9	25.1	3	LW R20	LC50	—
	6084	PA / AP	59-1/4 / 28-5/16	54-3/4 / 26-1/8	82-9/16	83-5/8	16.2	16.4	19.3	3	LW R20	LC50	—
	6484	PA / AP	63-1/4 / 30-5/16	58-3/4 / 28-1/8	82-9/16	83-5/8	17.4	17.6	21.2	3	LW R20	LC50	—
	6884	PA / AP	68-1/4 / 32-13/16	63-3/4 / 30-5/8	82-9/16	83-5/8	18.8	19.1	23.7	3	LW R20	LC50	—
	7284	PA / AP	71-1/4 / 34-5/16	66-3/4 / 32-1/8	82-9/16	83-5/8	19.7	19.9	25.1	3	LW R20	LC50	—

(—) = Not Applicable
(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.
(2) Maximum performance when glazed with the appropriate glass thickness. Performance ratings apply to Standard sill only.
(3) Visible glass calculations representative of a putty or ogee panel profile.
All doors and sidelights are Tempered glass.
To convert areas to square meters (m^2), multiply square feet by 0.0929.

Design Data

In-Swing Door Design Data

	Unit	Single and Double Doors	Clear Opening (Inches) [1]				Vent Area (Standard Sill)	Vent Area (Low Profile Sill)	Full Light Visible Glass Ft^2 [3]	Standard Glass Thickness (mm) Tempered	Performance Class & Grade [2]		
			Width (Inches) (172°)	Width (Inches) (90°)	Height (Standard Sill)	Height (Low Profile Sill)				Dual-Pane Glazing	Latch/ Deadbolt	Multipoint Lock	Fixed
8' 0" DOORS	1296	SL	—	—	—	—	—	—	3.9	3	—	—	LC50
	1496	SL	—	—	—	—	—	—	5.0	3	—	—	LC50
	3096	F	—	—	—	—	—	—	11.3	3	—	—	LC50
	3296	F	—	—	—	—	—	—	12.4	3	—	—	LC50
	3496	F	—	—	—	—	—	—	13.9	3	—	—	LC50
	3696	F	—	—	—	—	—	—	14.7	3	—	—	LC50
	3096	L / R	28-5/16	26-3/16	94-9/16	95-5/8	18.6	18.8	11.3	3	LW R20	LC50	—
	3296	L / R	30-5/16	28-3/16	94-9/16	95-5/8	19.9	20.1	12.4	3	LW R20	LC50	—
	3496	L / R	32-13/16	30-11/16	94-9/16	95-5/8	21.5	21.8	13.9	3	LW R20	LC50	—
	3696	L / R	34-5/16	32-3/16	94-9/16	95-5/8	22.5	22.8	14.7	3	LW R20	LC50	—
	301296	AI/IA	41-1/4 / 28-3/8	36-3/4 / 26-1/8	94-9/16	95-5/8	18.6	18.8	15.2	3	LW R20	LC50	—
	301496	AI/IA	43-1/4 / 28-3/8	38-3/4 / 26-1/8	94-9/16	95-5/8	18.6	18.8	16.3	3	LW R20	LC50	—
	321296	AI/IA	43-1/4 / 30-3/8	38-3/4 / 28-1/8	94-9/16	95-5/8	19.9	20.2	16.3	3	LW R20	LC50	—
	321496	AI/IA	45-1/4 / 30-3/8	40-3/4 / 28-1/8	94-9/16	95-5/8	19.9	20.2	17.5	3	LW R20	LC50	—
	341296	AI/IA	45-3/4 / 32-7/8	41-1/4 / 30-5/8	94-9/16	95-5/8	21.6	21.8	17.8	3	LW R20	LC50	—
	341496	AI/IA	47-3/4 / 32-7/8	43-1/4 / 30-5/8	94-9/16	95-5/8	21.6	21.8	18.9	3	LW R20	LC50	—
	361296	AI/IA	47-1/4 / 34-3/8	42-3/4 / 32-1/8	94-9/16	95-5/8	22.6	22.8	18.6	3	LW R20	LC50	—
	361496	AI/IA	49-1/4 / 34-3/8	44-3/4 / 32-1/8	94-9/16	95-5/8	22.6	22.8	19.8	3	LW R20	LC50	—
	6096	AI/IA	59-1/4 / 28-5/16	54-3/4 / 26-1/8	94-9/16	95-5/8	18.6	18.8	22.6	3	LW R20	LC50	—
	6496	AI/IA	63-1/4 / 30-5/16	58-3/4 / 28-1/8	94-9/16	95-5/8	19.9	20.1	24.9	3	LW R20	LC50	—
	6896	AI/IA	68-1/4 / 32-13/16	63-3/4 / 30-5/8	94-9/16	95-5/8	21.5	21.8	27.7	3	LW R20	LC50	—
	7296	AI/IA	71-1/4 / 34-5/16	66-3/4 / 32-1/8	94-9/16	95-5/8	22.5	22.8	29.4	3	LW R20	LC50	—
	6096	PA / AP	59-1/4 / 28-5/16	54-3/4 / 26-1/8	94-9/16	95-5/8	18.6	18.8	22.6	3	LW R20	LC50	—
	6496	PA / AP	63-1/4 / 30-5/16	58-3/4 / 28-1/8	94-9/16	95-5/8	19.9	20.1	24.9	3	LW R20	LC50	—
	6896	PA / AP	68-1/4 / 32-13/16	63-3/4 / 30-5/8	94-9/16	95-5/8	21.5	21.8	27.7	3	LW R20	LC50	—
	7296	PA / AP	71-1/4 / 34-5/16	66-3/4 / 32-1/8	94-9/16	95-5/8	22.5	22.8	29.4	3	LW R20	LC50	—

(—) = Not Applicable
(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.
(2) Maximum performance when glazed with the appropriate glass thickness. Performance ratings apply to Standard sill only.
(3) Visible glass calculations representative of a putty or ogee panel profile.
All doors and sidelights are Tempered glass.
To convert areas to square meters (m^2), multiply square feet by 0.0929.

Transoms — Standard Stile

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade[2]
		Annealed	Tempered	
3014	1.5	2.5	3	CW50
3017	2.0	2.5	3	CW50
3025	3.4	2.5	3	CW50
3214	1.6	2.5	3	CW50
3217	2.2	2.5	3	CW50
3225	3.7	2.5	3	CW50
3414	1.7	2.5	3	CW50
3417	2.4	2.5	3	CW50
3425	4.0	2.5	3	CW50
3614	1.8	2.5	3	CW50
3617	2.5	2.5	3	CW50
3625	4.2	2.5	3	CW50
6014 T	3.2	—	3	CW50
6017	4.4	2.5	3	CW50
6025	7.6	2.5	3	CW40
6414	3.5	2.5	3	R15[1]
6417	4.7	2.5	3	R15[1]
6425	8.1	2.5	3	R15[1]
6814	3.8	2.5	3	R15[1]
6817	5.1	2.5	3	R15[1]
6825	8.8	2.5	3	R15[1]
7214 T	3.9	—	3	R15[1]
7217 T	5.4	—	3	R15[1]
7225	9.2	2.5	3	R15[1]

Transoms — Wide Stile

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade[2]
		Annealed	Tempered	
3014	1.1	2.5	3	R15[1]
3017	1.6	2.5	3	R15[1]
3025	2.7	2.5	3	R15[1]
3214	1.3	2.5	3	R15[1]
3217	1.7	2.5	3	R15[1]
3225	2.9	2.5	3	R15[1]
3414	1.4	2.5	3	R15[1]
3417	1.9	2.5	3	R15[1]
3425	3.3	2.5	3	R15[1]
3614	1.5	2.5	3	R15[1]
3617	2.0	2.5	3	R15[1]
3625	3.5	2.5	3	R15[1]
6014	2.9	2.5	3	R15[1]
6017	4.0	2.5	3	R15[1]
6025	6.8	2.5	3	R15[1]
6414	3.1	2.5	3	R15[1]
6417	4.3	2.5	3	R15[1]
6425	7.3	2.5	3	R15[1]
6814 T	3.4	—	3	R15[1]
6817	4.7	2.5	3	R15[1]
6825	8.0	2.5	3	R15[1]
7214 T	3.6	—	3	R15[1]
7217	4.9	2.5	3	R15[1]
7225	8.4	2.5	3	R15[1]

(—) = Not Applicable

T = Tempered required due to aspect ratio.

(1) Units are not AAMA/WDMA performance certified. Units are engineered to meet the performance class and grade shown.

(2) Maximum performance when glazed with the appropriate glass thickness.

Detailed Product Descriptions

Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine], edge-banded and veneered.
- Exterior surfaces are clad with aluminum at the head and jambs.
- Components are assembled with screws, staples and concealed corner locks.
- Frame depth between 5-7/8" (149mm) to 8-5/8" (219mm), for wall depth between 4-9/16" (116mm) to 7-5/16" (186mm).
- Optional factory-applied EnduraClad® exterior trim.
- Solid extruded aluminum sill with [Mill] [Black] finish. [[oak] [black composite] threshold for [pine] door].

– or –

- Sill is 1/2" low profile. Material and finish are extruded aluminum with [Mill] [Black] finish.

Door panels

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are veneered with [clear pine (except for intermediate stiles)].
- Exterior surfaces are clad with extruded aluminum.
- Panel hinge and fixed stiles are three-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Panel lock stiles are constructed with LVL core with finger-jointed edge bands on both sides and veneered on both faces.
- Interior panel intermediate stiles are three-ply construction laminated with water-resistant glue.
- Panel and sidelight rails are three-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Sidelight fixed, hinge and lock stiles are randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Corners are urethane-silicone hybrid-sealed and secured with metal fasteners.
- Panel thickness is 2-1/16" (52mm).
- Panel exterior profile is [ogee] [putty glaze] [square], interior profile is [ogee] [square].
- Intermediate stiles on [Craftsman] [Craftsman Light] [1/2 Light 2 Panel] panel styles are a [4" [putty] [square] [ogee] profile] exterior grille that is extruded aluminum, finished to match door cladding, and a [4" [Ogee] [Square] profile] interior grille that is [Pine] finished to match the door interior.
- Laminated clad panel is comprised of aluminum, insulating foam and veneered MDF.
- Lower exterior clad panel style is [shaker] [raised].
- Upper exterior clad panel style is [shaker].
- Interior panel style is [shaker].

Weatherstripping

- Dual-durometer extruded polymer along perimeter of door frame.
- On panel bottom [standard sill: dual-durometer extruded polymer interior air seal] [Low profile sill: interior rigid polymer bristle-strip] and rigid polymer exterior facing bristle-strip.

Glazing System

- Quality fully-tempered float glass complying with ASTM C 1048.
- High altitude glazing available.
- Silicone-glazed, 3/4" double-pane, dual-seal, insulating glass
  - [Clear] [Obscure] [Reflective Bronze] with air.
  - [Obscure Low-E [with argon]] [[Advanced] [AdvancedComfort] [SunDefense™] [SunDefense+] [NaturalSun] [NaturalSun+] Low-E [with argon]].
  - [Bronze] [Gray] [Green] Advanced Low-E [with argon].

- or –

- Silicone-glazed, 7/8" double-pane, dual-seal, laminated, insulating glass
  - Clear with air.
  - [Advanced] [SunDefense™] Low-E with argon.
  - [Bronze] [Gray] [Green] Advanced Low-E with argon.

Exterior

- Aluminum-clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
  - Color is [Standard] [feature] [custom][1].

– or –

- Aluminum-clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
  - Color is [Standard] [feature] [custom][1].

– or –

- Aluminum-clad woodgrain[5] exterior is applied through a multi-step process involving base color powder coating and woodgrain transfer film.

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [paint] [stain][1]].

Hardware

Hinges

- Hinges are [aluminum adjustable] [standard steel] [ball bearing].
  - Hinge finish is [Standard Steel [Brown] [Matte Black] [Brass] [Satin Nickel] [Polished Chrome]], [Ball Bearing [Stainless Steel]], [Aluminum Adjustable [Champagne] [White] [Brown] [Matte Black] [Satin Brass] [Satin Nickel] [Polished Chrome]].
- Doors under 7' 0" frame height will have three (3) hinges per panel.
- Doors at or over 7' 0" frame height will have four (4) hinges per panel.

Locks

- Standard Hardware Prep
  - Each door panel is [no bore] [factory-prepped for 2-1/8" (54mm) latch bore] [factory-prepped for 2-1/8" (54mm) latch bore and 2-1/8" (54mm) deadbolt, 5-1/2" (140mm) on center] [factory-prepped for multipoint lock]. Latch bore and deadbolt backset is [2-3/8" (60mm)]. Multipoint backset is [1-3/4" (45mm)].
- Mortised and keyed Multipoint locking system, center deadbolt and shoot-bolts at head and sill will engage simultaneously.
  - Doors 8' 1-5/8" frame height and below will have one (1) strike at the head, one (1) strike at the sill and one (1) center deadbolt.
  - Key cylinder finish is [Satin Brass] [Satin Nickel] [Matte Black].

Handles

- Optional Multipoint handle finish is [White] [Champagne] [Brown] [Matte Black] [Satin Brass] [Satin Nickel] [Oil Rubbed Bronze] [Distressed Bronze] [Distressed Nickel] [Polished Chrome].
- Optional interior and exterior passage hardware with K-keyway cylinder keylock, finish is [Satin Nickel] [Matte Black] [Satin Brass] [Oil Rubbed Bronze] [Distressed Bronze] [Distressed Nickel] [Polished Chrome].

Optional Products

Grilles

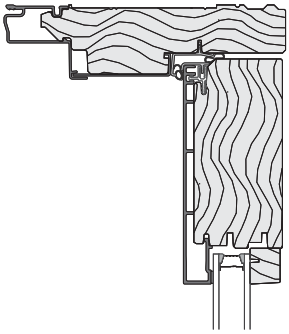
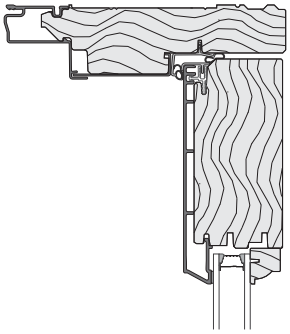
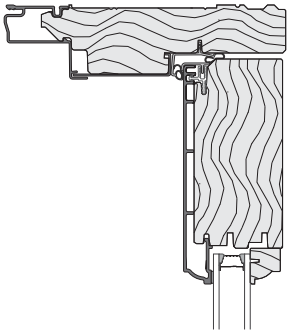
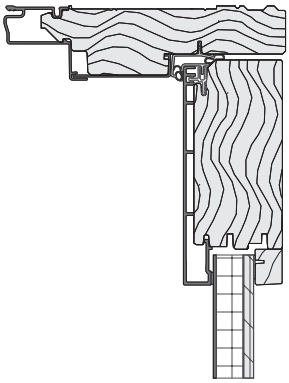
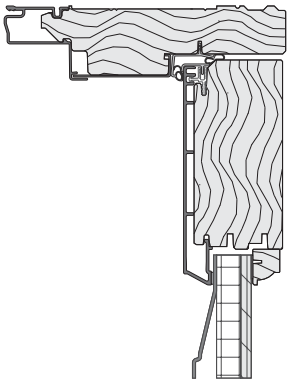
- Integral Light Technology® grilles
  - Interior grilles are [5/8" [ogee] [square] profile] [7/8" [ogee] [square] profile] [1-1/4" [ogee] [square] profile] [2" [ogee] [square] profile] that are solid [Pine]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain][1]].
  - Exterior grilles are [5/8" [putty] [square] profile] [7/8" [putty] [ogee] [square] profile] [1-1/4" [putty] [ogee] [square] profile] [2" [ogee] [square] profile] that are extruded aluminum, finished to match door cladding[5].
  - Patterns are [Traditional] [Prairie] [Top Row] [Cross].
  - Insulating glass contains spacer between the panes of glass.
  - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the spacer.

– or –

- Grilles-Between-the-Glass[2]
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row]
  - Interior color is [White] [Tan[3]] [Brown[3]] [Putty[3]] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
  - Exterior color[4] is [Standard][1].

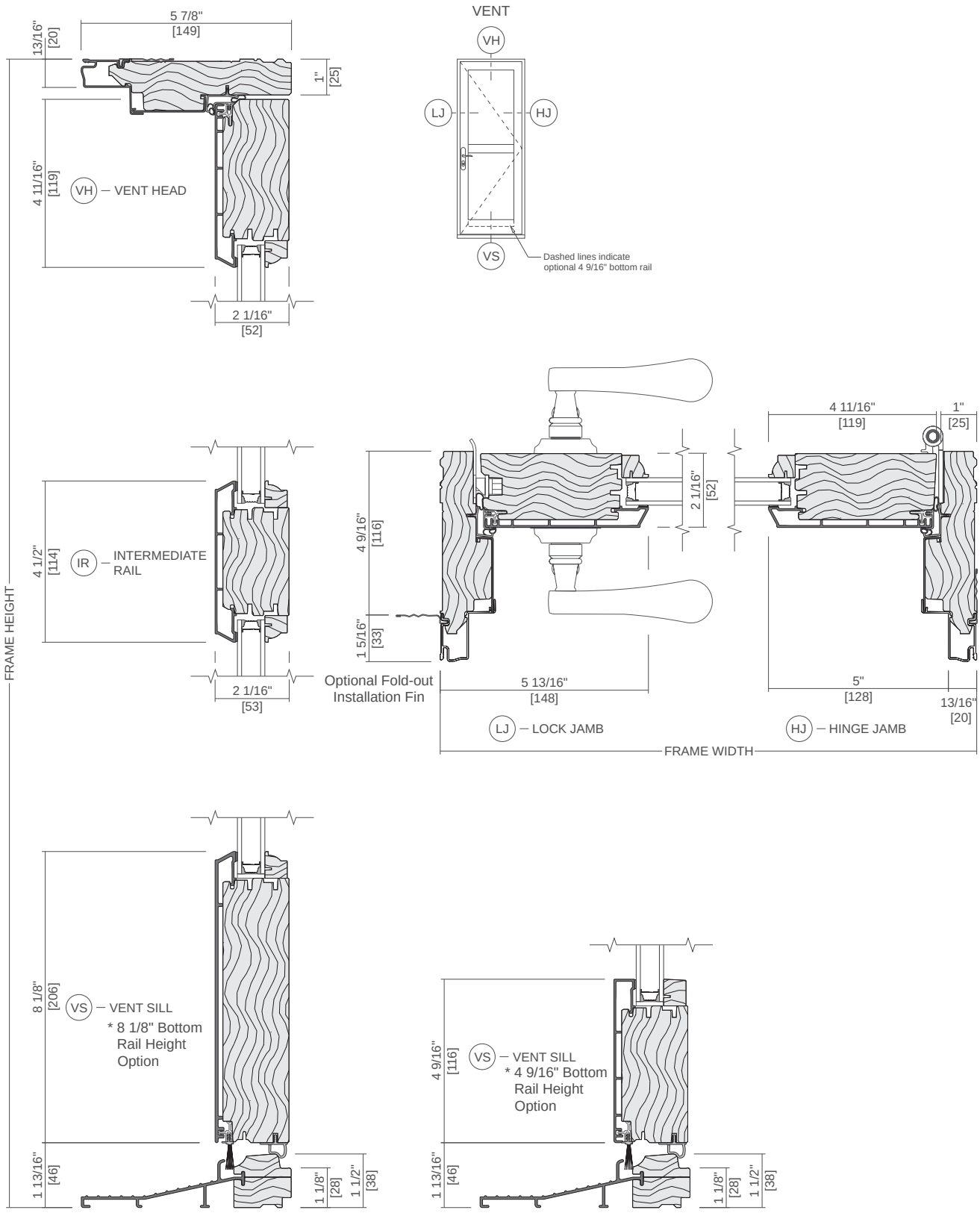
(1) Contact your local Pella sales representative for current color options.
(2) Available in clear or Low-E insulating glass with argon, and obscure insulated glass.
(3) Tan, Brown or Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.
(4) Appearance of exterior grille color will vary depending on Low-E coating on glass.
(5) Woodgrain clad finish is not applicable to the ogee profile, frame, transoms, or grilles-between-the-glass. Limited to 7/8" ILT grilles.

Unit Sections – Glazing Types and Profiles Overview

GLAZING PROFILE		
Square/Square Glazing Profile	Putty/Ogee Glazing Profile	Ogee/Ogee Glazing Profile
		
Shaker Panel Profile	Raised Panel Profile	
		

Scale 3" = 1' 0"
All dimensions are approximate.

Unit Sections



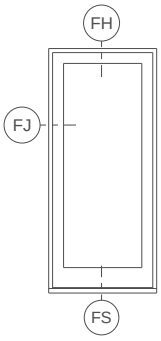
Scale 3" = 1' 0"

* See Panel Style pages for bottom rail height availability.

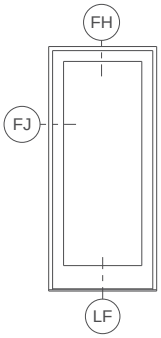
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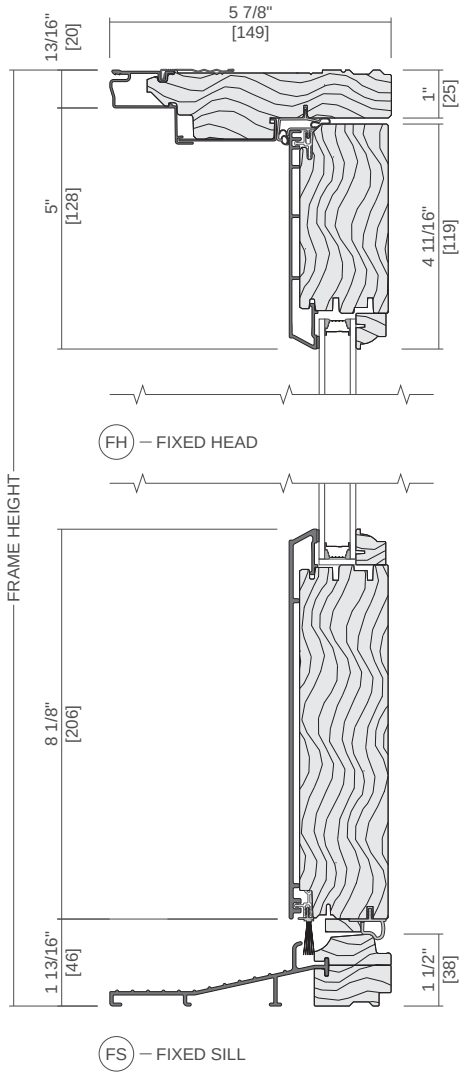
Unit Sections

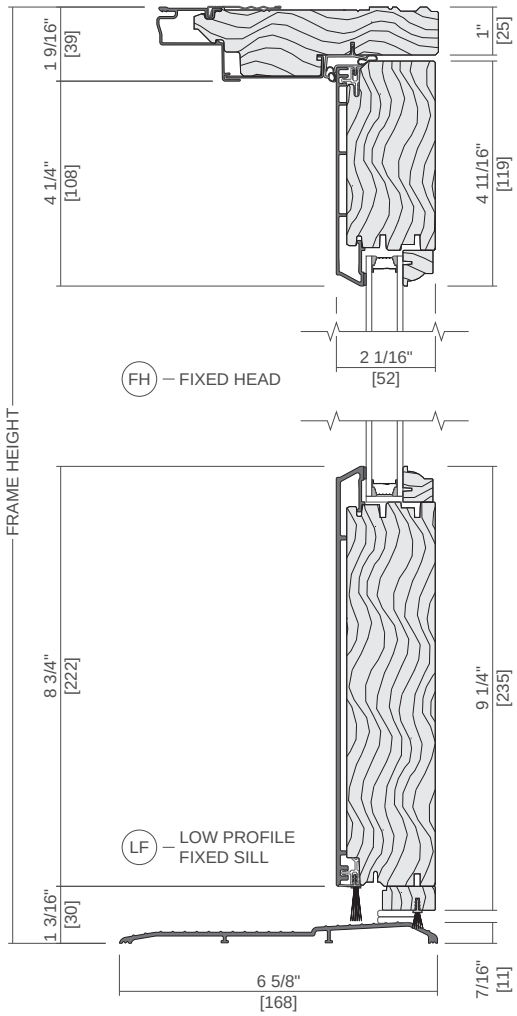
FIXED

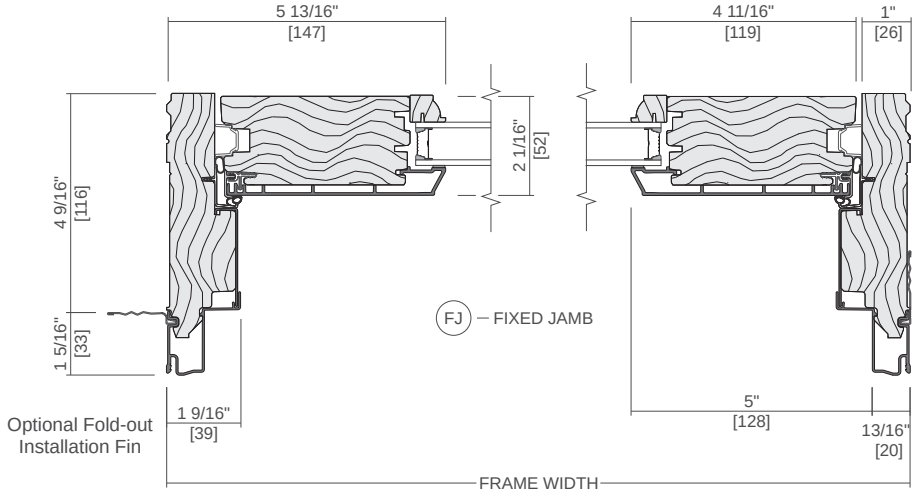


FIXED
LOW PROFILE



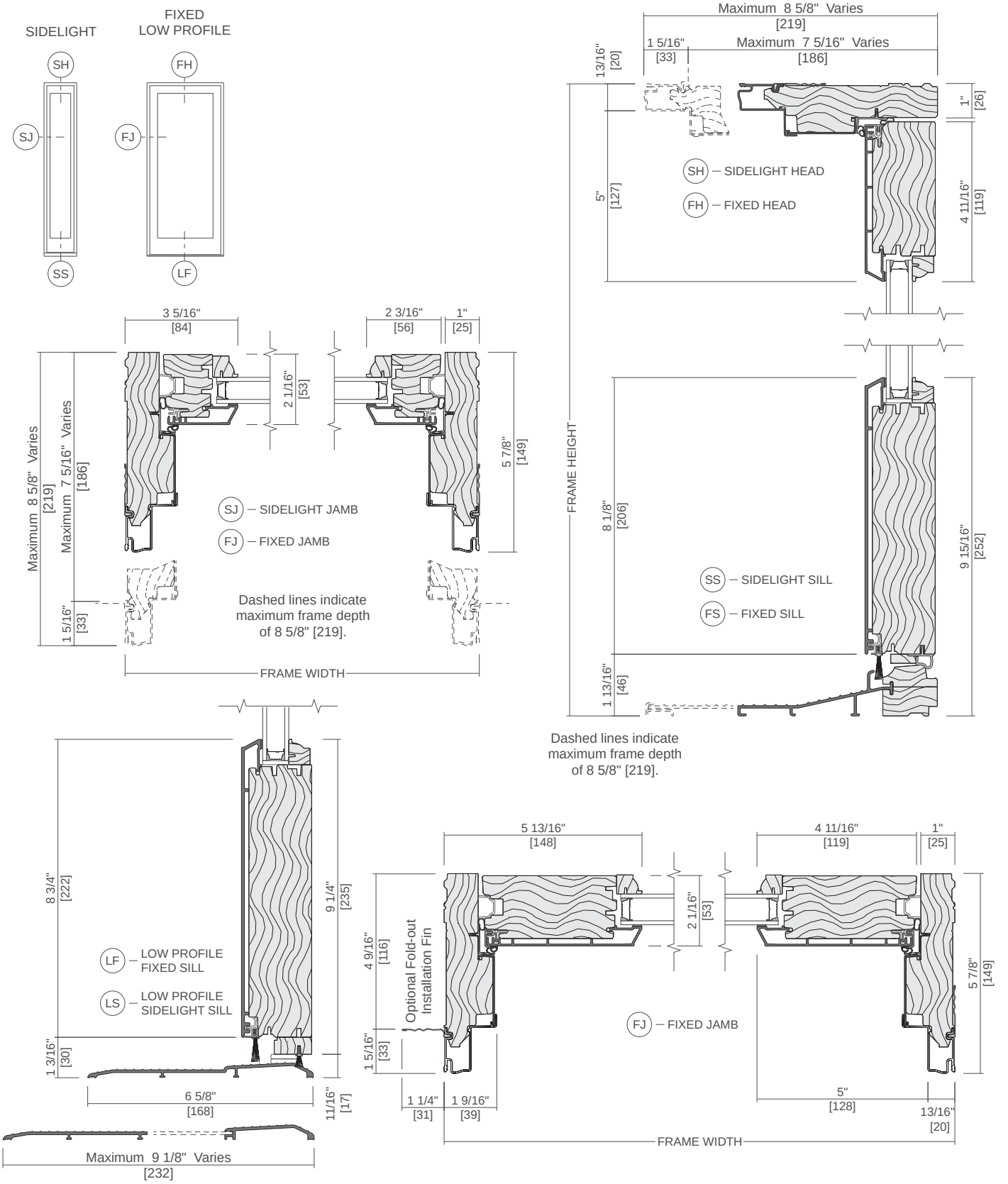






Scale 3" = 1' 0"
All dimensions are approximate.
Units with a low profile sill are not certified for performance.

Unit Sections



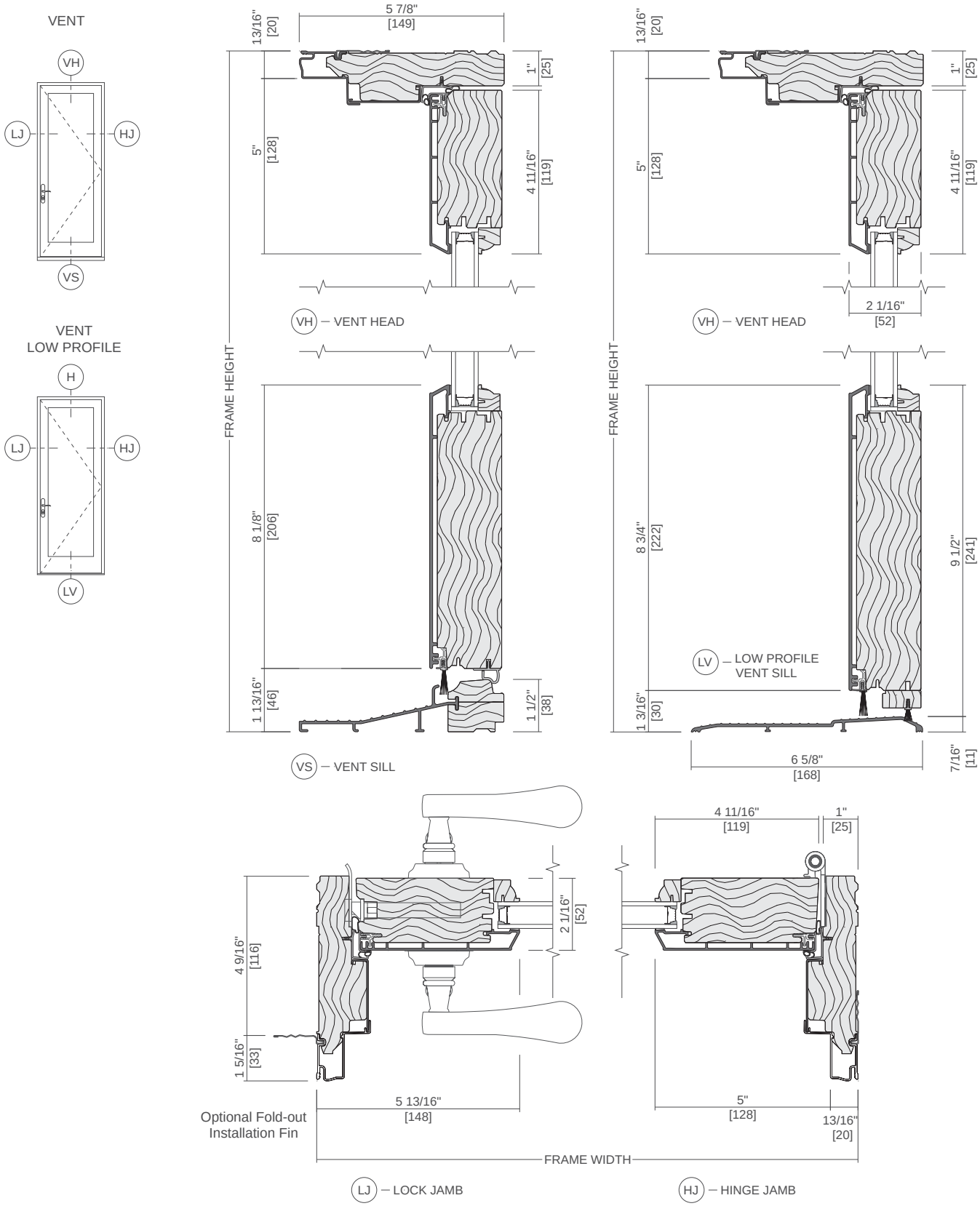
Dashed line indicates where part is modified for different wall depths.

Scale 3" = 1' 0"

All dimensions are approximate.

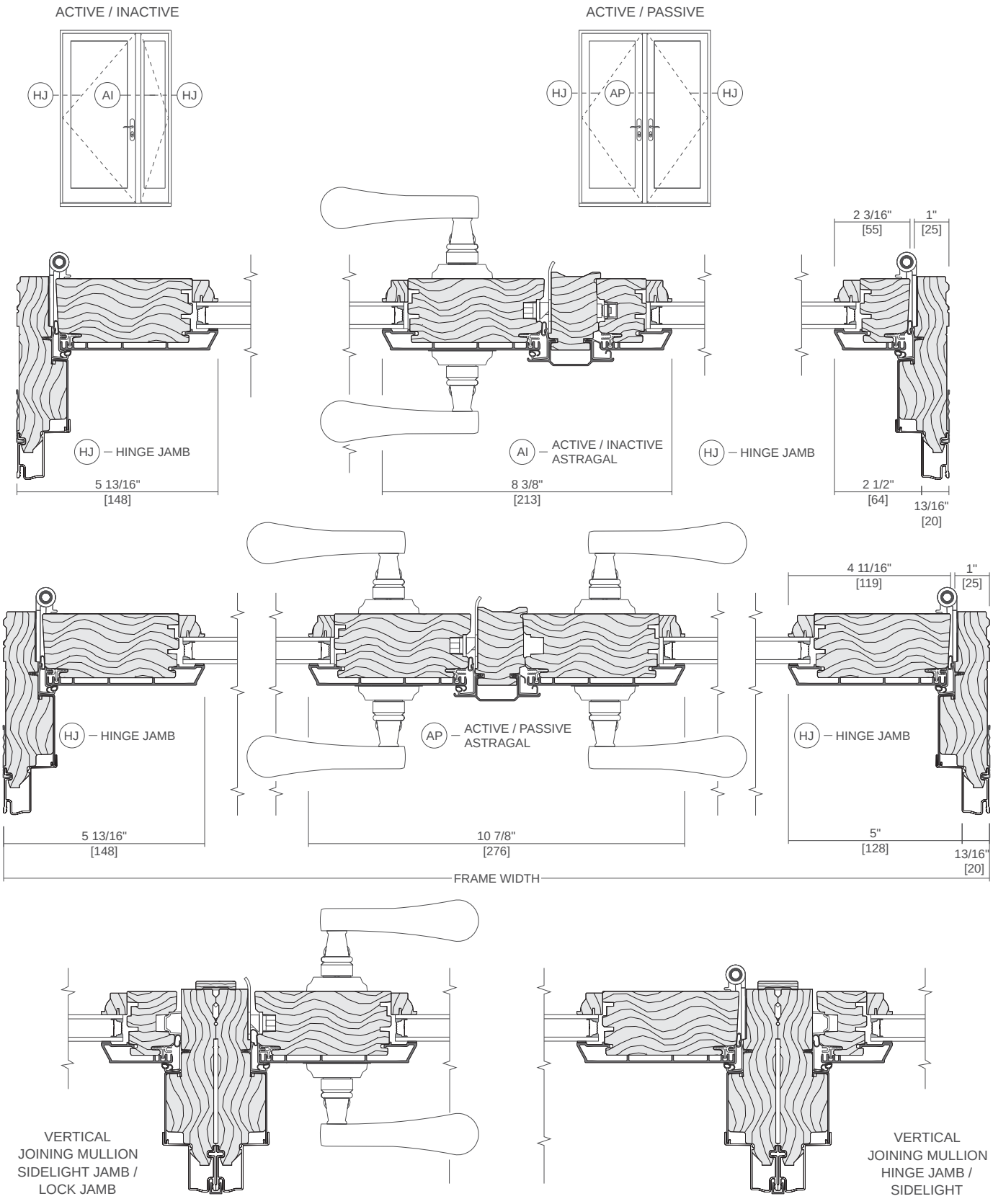
Units with a low profile sill are not certified for performance.

Unit Sections



Scale 3" = 1' 0"
All dimensions are approximate.
Units with a low profile sill are not certified for performance.

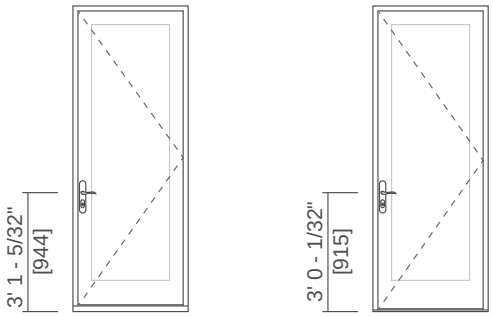
Unit Sections



Scale 3" = 1' 0"
All dimensions are approximate.
See www.Pella.com for mullion limitations and reinforcing requirements.

Unit Sections – Handle Hardware Dimensions

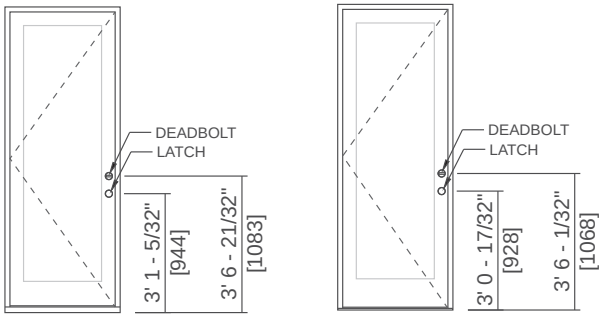
MULTIPOINT LOCK
TYPICAL HANDLE LOCATIONS
BASED ON SILL TYPE



STANDARD SILL

LOW-PROFILE SILL

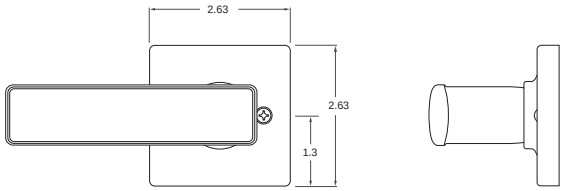
LATCH AND DEADBOLT
BORE HOLE LOCATIONS
BASED ON SILL TYPE



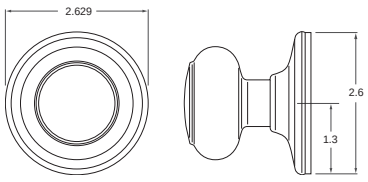
STANDARD SILL
(2.375" BACKSET)

LOW-PROFILE SILL
(2.375" BACKSET)

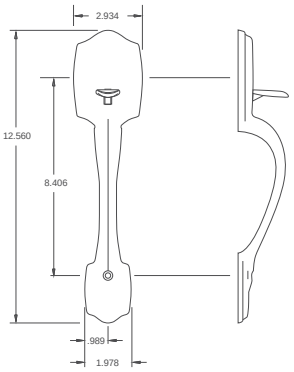
BRETON LEVER



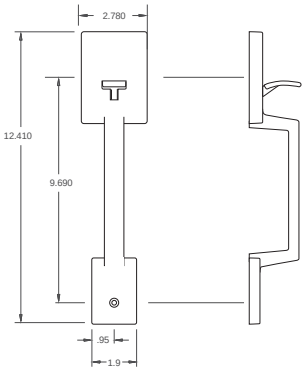
COVE KNOB



BELLEVIEW



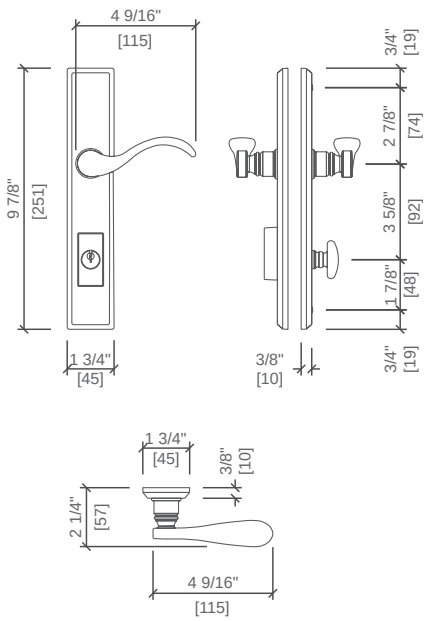
AMADOR



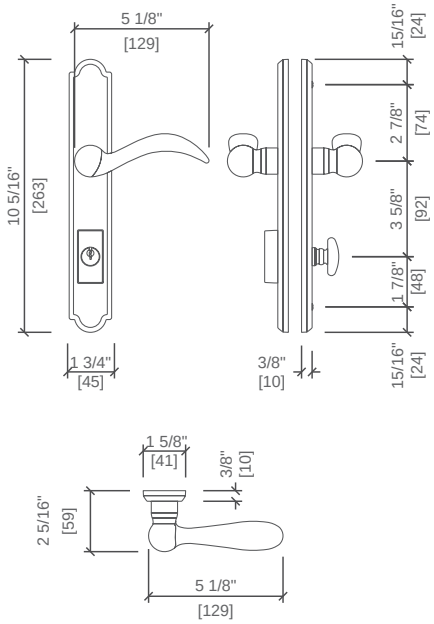
Drawings are not to Scale.
All dimensions are approximate.
Contact your local Pella Sales Representative for all current options.

Unit Sections – Handle Hardware Dimensions

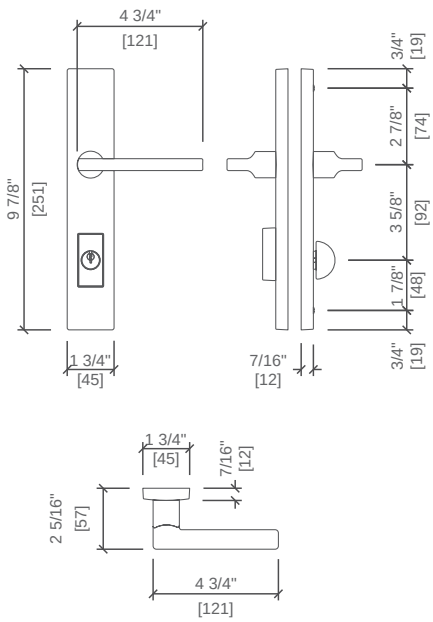
VIRAGO



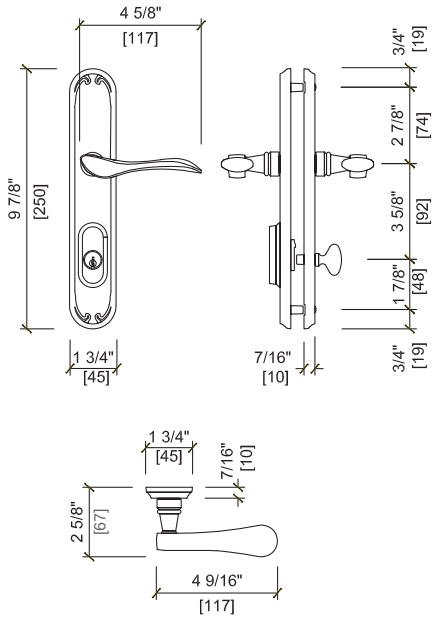
RUSTIEK



SPIERE



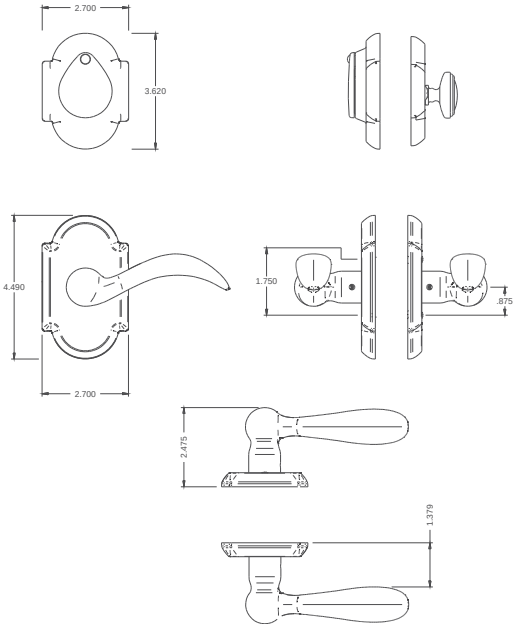
Standard



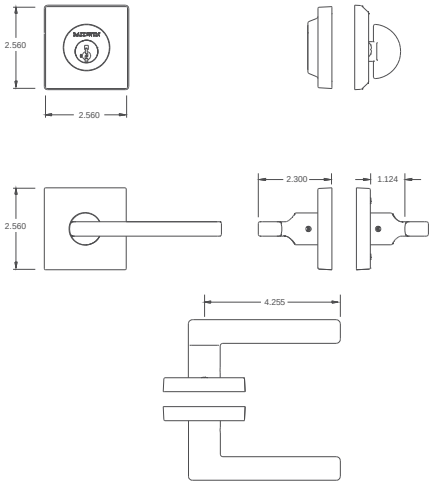
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Unit Sections – Handle Hardware Dimensions

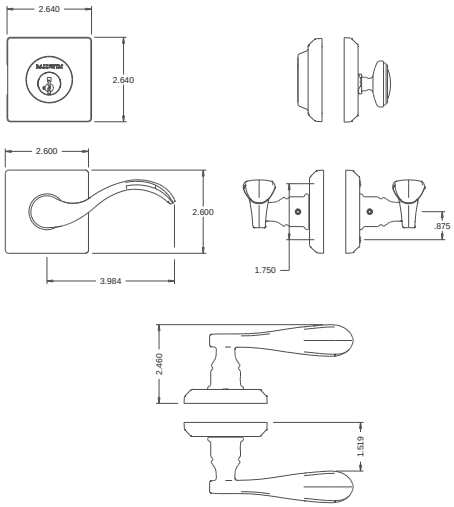
ELKHORN LEVER



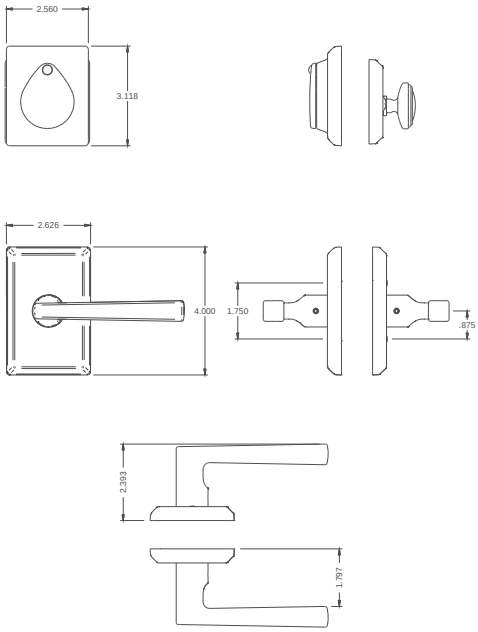
LA JOLLA LEVER



DEL MAR / NAPA LEVER



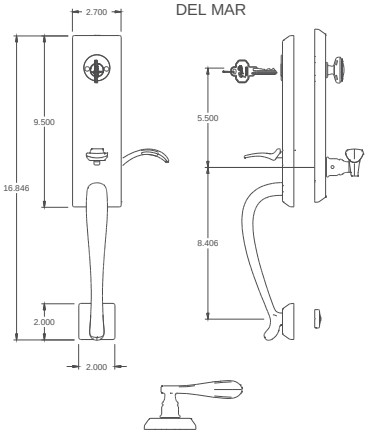
LONGVIEW LEVER



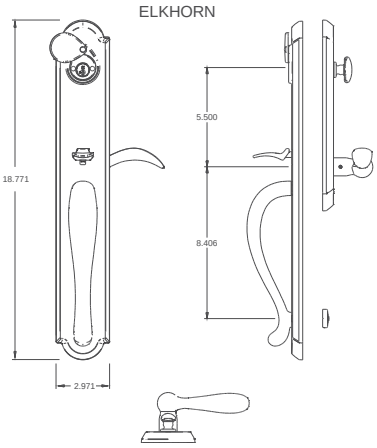
Drawings are not to Scale.
All dimensions are approximate.
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Unit Sections – Handle Hardware Dimensions

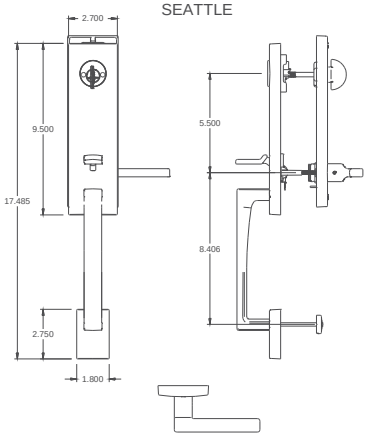
DEL MAR



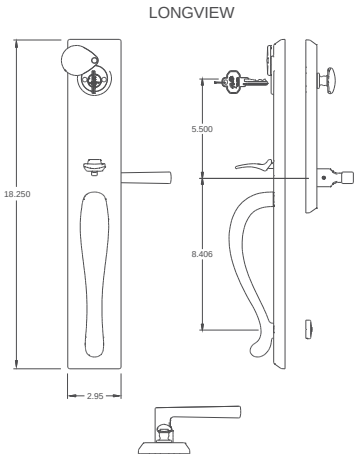
ELKHORN



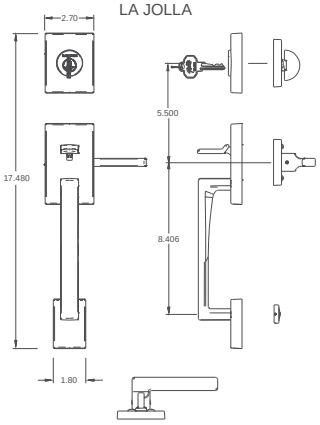
SEATTLE



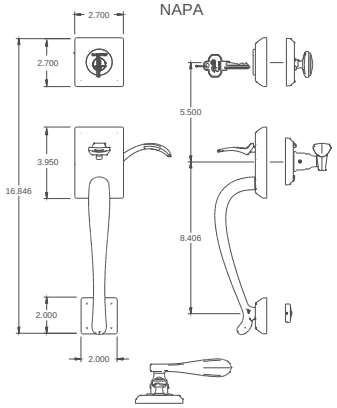
LONGVIEW



LA JOLLA



NAPA



Drawings are not to Scale.
All dimensions are approximate.
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