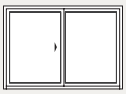


SLIDING WINDOW

SECTION DIRECTORY

General Information

Pella® Impervia® Sliding Windows

are traditional in every detail—with all the Pella innovations you demand. All three frame types and sash material feature Duracast® fiberglass composite, Pella's patented, five layer, engineered fiberglass composite. Duracast fiberglass composite is the strongest, most durable material available in windows and doors. Each window uses three-way reinforced corners for increased strength. All frame and sash corners are locked in place with corner locks and injected with a dual purpose sealant / adhesive for long-lasting performance. Frame corners are additionally secured with mechanical fasteners. Pella Impervia windows are prefinished with powder-coat paint. Virtually indestructible, this paint meets the stringent AAMA 623 standards. Powder-coat paint is resistant to dents, scratches and damaging UV light. Duracast fiberglass composite can withstand extreme heat (over 200° F), intense cold (-40˚ F), and is seacoast worthy.

BLOCK FRAME

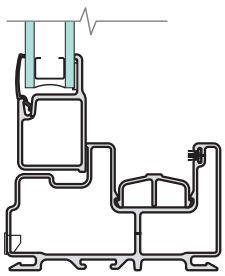
The 3" deep block frame is our most versatile frame. Units can be installed in masonry openings using installation clips, concealed jamb screws or in wood frame openings using optional fins. Units can also be field-joined together. Our block frames may easily be used as a replacement window without removing the existing frame or damaging the exterior.

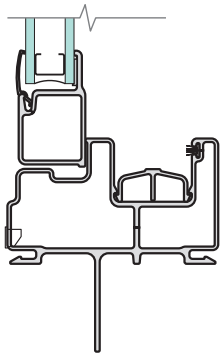
INTEGRAL NAILING FIN

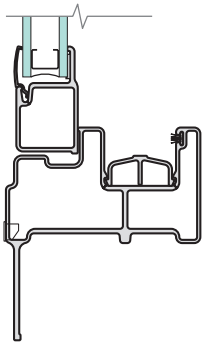
The integral nailing fin features a standard continuous fin, adding a protective weather barrier to the frame itself and allowing for hassle-free installation. The frame is also installation friendly for stucco applications.

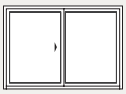
FLUSH FLANGE

Our flush flange frames are designed specifically for replacement application on stucco exteriors in southwest arid climates. The flush flange allows for quick installation, without removing the existing frame or damaging stucco exterior.









SLIDING WINDOW

PRODUCT SELECTION GUIDE

Size and Performance Data

Sound Performance

	BLOCK FRAME	INTEGRAL NAILING FIN	FLANGE FRAME
SIZES			
Standard Vent	●	●	●
Standard Fixed Companion	●	●	●
Special Sizes Available	●	●	●
PERFORMANCE [1]			
Meets or Exceeds AAMA/WDMA Ratings	SW-LC30 – SW-LC50 Hallmark Certified	SW-LC30 – SW-LC50 Hallmark Certified	SW-LC30 – SW-LC50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.10	0.10	0.10
Water Resistance	4.5 - 7.5 psf	4.5 - 7.5 psf	4.5 - 7.5 psf
Design Pressure	30 - 50 psf	30 - 50 psf	30 - 50 psf
OTHER PERFORMANCE CRITERIA			
Forced Entry Resistance Level (Minimum Security Grade)[2]	40	40	40
Maximum Operating Force (lb) Initiate Motion/Maintain Motion	12/17 for units with sash ≤ 12 ft²		
Maximum Locking Force (lb) Lock/Unlock	6/6	6/6	6/6

Sound Transmission Class and Outdoor-Indoor Transmission Class

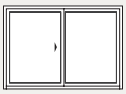
Product	Frame Size Tested[3]	Glazing System			STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness		
2-PANEL OX,XO	71-1/2" x 71-1/2"	11/16"	3mm	3mm	27	22
3-PANEL XOX	71-1/2" x 71-1/2"	11/16"	2.5mm	2.5mm	25	21

S = Standard; O = Optional

(1) See Design Data pages in this section for specific product performance class and grade values.

(2) The higher the level, the greater the product's ability to resist forced entry.

(3) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.



SLIDING WINDOW

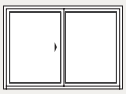
PRODUCT SELECTION GUIDE

Features and Options

	BLOCK FRAME	INTEGRAL NAILING FIN	FLANGE FRAME
GLAZING			
Glazing Type			
Dual-pane Insulating Glass	S	S	S
Insulated Glass Options / Low-E Types			
Clear Insulating Glass (no Low-E coating)	S	S	S
Advanced Low-E Insulating Glass	O	O	O
SunDefense™ Low-E Insulating Glass	O	O	O
AdvancedComfort Low-E Insulating Glass	O	O	O
NaturalSun Low-E Insulating Glass	O	O	O
Additional Glass Options			
Annealed Glass	S	S	S
Tempered Glass	O	O	O
Obscure Glass(1)	O	O	O
Gas Fill / High Altitude			
Argon	S	S	S
High Altitude	O	O	O
High Altitude with argon	O	O	O
EXTERIOR			
Powder-Coat White	S	S	S
Powder-Coat Tan, Brown, Black, or Morning Sky Gray	O	O	O
Dual-color (All exterior colors available with White interior)	O	–	O
HARDWARE			
Match interior finish	S	S	S
Satin Nickel, Bright Brass or Oil-Rubbed Bronze	O	O	O
Sash Locks			
Self-aligning sash lock	S	S	S
SCREENS			
Conventional Black Fiberglass	O	O	O
InView™ screens	O	O	O
GRILLES			
Grilles-Between-the-Glass			
3/4" Contoured	O	O	O
Patterns			
Traditional	O	O	O
Prairie	O	O	O
Top Row	O	O	O
Special	O	O	O
EASY-CLEAN			
Exterior glass is easy to clean from interior by removing venting sash.	S	S	S

S = Standard; O = Optional; (–) = Not available

(1) Contact your local Pella sales representative for current offering.

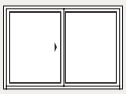


SLIDING WINDOW

GLAZING PERFORMANCE – TOTAL UNIT

Pella Impervia

Glass 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 %	CR	U. S. Zone				Canada[2] ER	Canada[2] Zone		
										N	NC	SC	S		1	2	3
VENT UNITS																	
11/16"	Clear IG	PEL-N-103-00518-00001	2.5	2.5	air	0.48	0.60	63	44								
	with grilles-between-the-glass	PEL-N-103-00519-00001				0.48	0.54	56	44								
11/16"	Clear IG	PEL-N-103-00518-00003	3	3	air	0.48	0.59	62	44								
	with grilles-between-the-glass	PEL-N-103-00519-00003				0.48	0.53	55	44								
11/16"	Clear IG	PEL-N-103-00522-00001	5	5	air	0.50	0.56	61	42								
	with grilles-between-the-glass	PEL-N-103-00523-00001				0.51	0.51	54	42								
11/16"	Advanced Low-E IG	PEL-N-103-00548-00001	2.5	2.5	argon	0.31	0.29	53	58								
	with grilles-between-the-glass	PEL-N-103-00549-00001				0.31	0.26	47	58								
11/16"	Advanced Low-E IG	PEL-N-103-00548-00003	3	3	argon	0.31	0.28	53	58								
	with grilles-between-the-glass	PEL-N-103-00549-00003				0.31	0.26	47	58								
11/16"	Advanced Low-E IG	PEL-N-103-00552-00001	5	5	argon	0.33	0.28	52	54								
	with grilles-between-the-glass	PEL-N-103-00553-00001				0.35	0.25	46	54								
11/16"	SunDefense™ IG	PEL-N-103-00560-00001	2.5	2.5	argon	0.30	0.21	49	58								
	with grilles-between-the-glass	PEL-N-103-00561-00001				0.30	0.19	44	58								
11/16"	SunDefense™ IG	PEL-N-103-00560-00003	3	3	argon	0.30	0.21	49	58								
	with grilles-between-the-glass	PEL-N-103-00561-00003				0.30	0.19	43	58								
11/16"	SunDefense™ IG	PEL-N-103-00564-00001	5	5	argon	0.34	0.22	48	56								
	with grilles-between-the-glass	PEL-N-103-00565-00001				0.35	0.20	43	54								
11/16"	AdvancedComfort Low-E IG	PEL-N-103-00584-00001	2.5	2.5	argon	0.27	0.28	52	46					22			
	with grilles-between-the-glass	PEL-N-103-00585-00001				0.27	0.25	46	46					20			
11/16"	AdvancedComfort Low-E IG	PEL-N-103-00584-00003	3	3	argon	0.27	0.28	52	46					22			
	with grilles-between-the-glass	PEL-N-103-00585-00003				0.27	0.25	46	46					20			
11/16"	AdvancedComfort Low-E IG	PEL-N-103-00588-00001	5	5	argon	0.29	0.27	50	42								
	with grilles-between-the-glass	PEL-N-103-00589-00001				0.30	0.25	45	42								
11/16"	NaturalSun Low-E IG	PEL-N-103-00536-00002	2.5	2.5	argon	0.32	0.53	60	57					30			
	with grilles-between-the-glass	PEL-N-103-00537-00002				0.32	0.48	54	57					27			
11/16"	NaturalSun Low-E IG	PEL-N-103-00536-00006	3	3	argon	0.32	0.52	60	57					29			
	with grilles-between-the-glass	PEL-N-103-00537-00006				0.32	0.47	53	57					26			
11/16"	NaturalSun Low-E IG	PEL-N-103-00540-00002	5	5	argon	0.34	0.50	59	54					26			
	with grilles-between-the-glass	PEL-N-103-00541-00002				0.36	0.45	52	54								
VENT UNITS – WITH FOAM INSULATION																	
11/16"	Advanced Low-E IG	PEL-N-103-00632-00001	2.5	2.5	argon	0.28	0.29	53	58					21			
	with grilles-between-the-glass	PEL-N-103-00633-00001				0.28	0.26	47	58					19			
11/16"	Advanced Low-E IG	PEL-N-103-00632-00003	3	3	argon	0.28	0.28	53	58					20			
	with grilles-between-the-glass	PEL-N-103-00633-00003				0.28	0.26	47	58					19			
11/16"	Advanced Low-E IG	PEL-N-103-00636-00001	5	5	argon	0.31	0.28	52	55								
	with grilles-between-the-glass	PEL-N-103-00637-00001				0.33	0.25	46	55								
11/16"	SunDefense IG	PEL-N-103-00644-00001	2.5	2.5	argon	0.28	0.21	49	59					16			
	with grilles-between-the-glass	PEL-N-103-00645-00001				0.28	0.19	44	59								
11/16"	SunDefense IG	PEL-N-103-00644-00003	3	3	argon	0.28	0.21	49	59					16			
	with grilles-between-the-glass	PEL-N-103-00645-00003				0.28	0.19	43	59								
11/16"	SunDefense IG	PEL-N-103-00648-00001	5	5	argon	0.30	0.22	48	55								
	with grilles-between-the-glass	PEL-N-103-00649-00001				0.32	0.20	43	55								
11/16"	AdvancedComfort Low-E IG	PEL-N-103-00668-00001	2.5	2.5	argon	0.24	0.28	52	46					25			
	with grilles-between-the-glass	PEL-N-103-00669-00001				0.24	0.25	46	46					24			
11/16"	AdvancedComfort Low-E IG	PEL-N-103-00668-00003	3	3	argon	0.24	0.28	52	46					25			
	with grilles-between-the-glass	PEL-N-103-00669-00003				0.24	0.25	46	46					24			
11/16"	AdvancedComfort Low-E IG	PEL-N-103-00672-00001	5	5	argon	0.27	0.27	50	42					21			
	with grilles-between-the-glass	PEL-N-103-00673-00001				0.28	0.25	45	42					19			
11/16"	NaturalSun Low-E IG	PEL-N-103-00620-00002	2.5	2.5	argon	0.29	0.53	60	58					34			
	with grilles-between-the-glass	PEL-N-103-00621-00002				0.29	0.48	54	58					31			
11/16"	NaturalSun Low-E IG	PEL-N-103-00620-00006	3	3	argon	0.29	0.52	60	58					33			
	with grilles-between-the-glass	PEL-N-103-00621-00006				0.29	0.47	53	58					30			
11/16"	NaturalSun Low-E IG	PEL-N-103-00624-00002	5	5	argon	0.32	0.50	59	54					28			
	with grilles-between-the-glass	PEL-N-103-00625-00002				0.33	0.45	52	54								



SLIDING WINDOW

GLAZING PERFORMANCE – TOTAL UNIT

High Altitude Glazing

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm) Ext.	Glass (mm) Int.	Gap Fill	Performance Values[1] U-Factor	SHGC	VLT %	CR	Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown: U. S. Zone N	NC	SC	S	Canada[2] ER	Canada Zone 1	2	3
HIGH ALTITUDE GLAZING																	
11/16"	(HA) Advanced Low-E IG	PEL-N-103-00542-00001	2.5	2.5	air	0.34	0.29	53	55					13			
	with grilles-between-the-glass	PEL-N-103-00543-00001				0.34	0.26	47	55					12			
11/16"	(HA) Advanced Low-E IG	PEL-N-103-00542-00003	3	3	air	0.34	0.29	53	55					13			
	with grilles-between-the-glass	PEL-N-103-00543-00003				0.34	0.26	47	55					12			
11/16"	(HA) Advanced Low-E IG	PEL-N-103-00546-00001	5	5	air	0.38	0.29	52	50					9			
	with grilles-between-the-glass	PEL-N-103-00547-00001				0.40	0.26	46	50					4			
11/16"	(HA) SunDefense IG	PEL-N-103-00554-00001	2.5	2.5	air	0.34	0.22	49	55					9			
	with grilles-between-the-glass	PEL-N-103-00555-00001				0.34	0.20	44	55					8			
11/16"	(HA) SunDefense IG	PEL-N-103-00554-00003	3	3	air	0.34	0.22	49	55					9			
	with grilles-between-the-glass	PEL-N-103-00555-00003				0.34	0.20	43	55					8			
11/16"	(HA) SunDefense IG	PEL-N-103-00558-00001	5	5	air	0.38	0.22	48	51					4			
	with grilles-between-the-glass	PEL-N-103-00559-00001				0.40	0.20	43	51					1			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-103-00578-00001	2.5	2.5	air	0.30	0.28	52	42					18			
	with grilles-between-the-glass	PEL-N-103-00579-00001				0.30	0.25	46	42					16			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-103-00578-00003	3	3	air	0.30	0.28	52	42					18			
	with grilles-between-the-glass	PEL-N-103-00579-00003				0.30	0.25	46	42					16			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-103-00582-00001	5	5	air	0.32	0.27	50	39					15			
	with grilles-between-the-glass	PEL-N-103-00583-00001				0.34	0.25	45	39					11			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-103-00530-00002	2.5	2.5	air	0.35	0.53	60	54					26			
	with grilles-between-the-glass	PEL-N-103-00531-00002				0.35	0.47	54	54					23			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-103-00530-00006	3	3	air	0.35	0.52	60	54					26			
	with grilles-between-the-glass	PEL-N-103-00531-00006				0.35	0.47	53	54					23			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-103-00534-00002	5	5	air	0.39	0.50	59	50					19			
	with grilles-between-the-glass	PEL-N-103-00535-00002				0.41	0.45	52	50					14			
11/16"	NaturalSun Low-E IG	PEL-N-103-00536-00002	2.5	2.5	argon	0.32	0.53	60	57					30			
	with grilles-between-the-glass	PEL-N-103-00537-00002				0.32	0.48	54	57					27			
11/16"	NaturalSun Low-E IG	PEL-N-103-00536-00006	3	3	argon	0.32	0.52	60	57					29			
	with grilles-between-the-glass	PEL-N-103-00537-00006				0.32	0.47	53	57					26			
11/16"	NaturalSun Low-E IG	PEL-N-103-00540-00002	5	5	argon	0.34	0.50	59	54					26			
	with grilles-between-the-glass	PEL-N-103-00541-00002				0.36	0.45	52	54					20			
HIGH ALTITUDE GLAZING – WITH FOAM INSULATION																	
11/16"	(HA) Advanced Low-E IG	PEL-N-103-00626-00001	2.5	2.5	air	0.32	0.29	53	55					16			
	with grilles-between-the-glass	PEL-N-103-00627-00001				0.32	0.26	47	55					14			
11/16"	(HA) Advanced Low-E IG	PEL-N-103-00626-00003	3	3	air	0.32	0.29	53	55					16			
	with grilles-between-the-glass	PEL-N-103-00627-00003				0.32	0.26	47	55					14			
11/16"	(HA) Advanced Low-E IG	PEL-N-103-00630-00001	5	5	air	0.36	0.29	52	51					11			
	with grilles-between-the-glass	PEL-N-103-00631-00001				0.37	0.26	46	51					8			
11/16"	(HA) SunDefense IG	PEL-N-103-00638-00001	2.5	2.5	air	0.32	0.22	49	55					12			
	with grilles-between-the-glass	PEL-N-103-00639-00001				0.32	0.20	44	55					11			
11/16"	(HA) SunDefense IG	PEL-N-103-00638-00003	3	3	air	0.32	0.22	49	55					12			
	with grilles-between-the-glass	PEL-N-103-00639-00003				0.32	0.20	43	55					11			
11/16"	(HA) SunDefense IG	PEL-N-103-00642-00001	5	5	air	0.35	0.22	48	51					8			
	with grilles-between-the-glass	PEL-N-103-00643-00001				0.37	0.20	43	51					5			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-103-00662-00001	2.5	2.5	air	0.27	0.28	52	43					22			
	with grilles-between-the-glass	PEL-N-103-00663-00001				0.27	0.25	46	43					20			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-103-00662-00003	3	3	air	0.27	0.28	52	43					22			
	with grilles-between-the-glass	PEL-N-103-00663-00003				0.27	0.25	46	43					20			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-103-00666-00001	5	5	air	0.30	0.27	50	39					17			
	with grilles-between-the-glass	PEL-N-103-00667-00001				0.31	0.25	45	39					15			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-103-00614-00002	2.5	2.5	air	0.33	0.53	60	54					29			
	with grilles-between-the-glass	PEL-N-103-00615-00002				0.33	0.47	54	54					25			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-103-00614-00006	3	3	air	0.33	0.52	60	54					28			
	with grilles-between-the-glass	PEL-N-103-00615-00006				0.33	0.47	53	54					25			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-103-00618-00002	5	5	air	0.36	0.50	59	50					23			
	with grilles-between-the-glass	PEL-N-103-00619-00002				0.38	0.45	52	50					18			

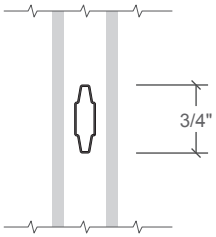
R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.
(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.
For center-glass values, see the Product Performance section.
See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.

GRILLE TYPES
Grilles-Between-the-Glass
Combination Assemblies

Grille Profiles

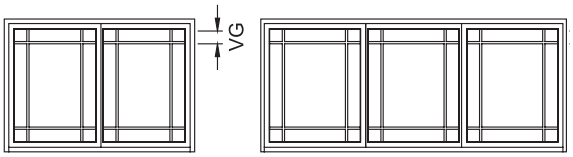
GRILLES-BETWEEN-THE-GLASS



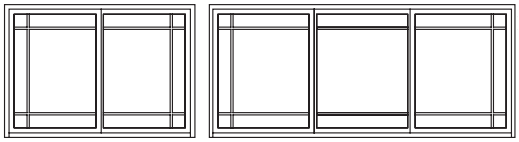
3/4" Contoured

Grille Patterns

PRAIRIE PATTERNS



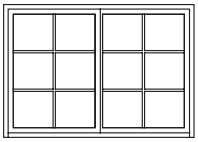
9-Lite Prairie



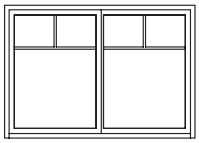
6-Lite Prairie

- Standard corner lite dimension for Prairie patterns = 4" visible glass (VG).
- Pattern availability may vary depending on size of unit.

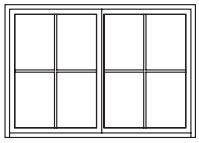
OTHER PATTERNS



Traditional



Top Row[1]



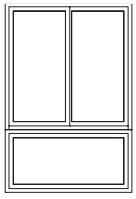
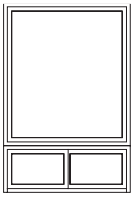
Special

- Pattern availability may vary depending on size of unit.

COMBINATION ASSEMBLIES

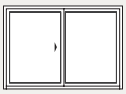
A combination is defined as an assembly formed by two or more separate windows or doors whose frames are mulled together utilizing a combination mullion or reinforcing mullion.

Below are available factory-assembled combinations. See the Combination section for requirements and limitations related to mulling various combinations plus configuration size range information.

COMBINATION ASSEMBLIES	
FIXED BELOW	**FIXED ABOVE**
	

Click here for the Impervia Combinations Section
• Downloadable PDF file.

(1) Standard visible glass to center line of separator bar = 14" or half of total visible glass height, whichever is smaller. Multiple rows are available up to 50% glass size.



SLIDING WINDOW

SIZE TABLES

Two Panel Vent–Fixed Units (XO)-Equal Sash

Vent-Fixed Units (XO)

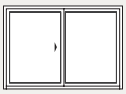
Opening	(610) (597) 2' 0"	(762) (749) 2' 6"	(914) (902) 3' 0"	(1 219) (1 207) 4' 0"	(1 524) (1 511) 5' 0"	(1 829) (1 816) 6' 0"
Frame	1' 11 ½"	2' 5 ½"	2' 11 ½"	3' 11 ½"	4' 11 ½"	5' 11 ½"
(457) (446) 1' 6" 1' 5 ½"	2-0/1-6	2-6/1-6	3-0/1-6	4-0/1-6	5-0/1-6	6-0/1-6
(610) (597) 2' 0" 1' 11 ½"	2-0/2-0	2-6/2-0	3-0/2-0	4-0/2-0	5-0/2-0	6-0/2-0
(762) (749) 2' 6" 2' 5 ½"	2-0/2-6	2-6/2-6	3-0/2-6	4-0/2-6	5-0/2-6	6-0/2-6 E (1)
(914) (902) 3' 0" 2' 11 ½"	2-0/3-0	2-6/3-0	3-0/3-0	4-0/3-0	5-0/3-0 E	6-0/3-0 E
(1 067) (1 054) 3' 6" 3' 5 ½"	2-0/3-6	2-6/3-6	3-0/3-6	4-0/3-6 E_1	5-0/3-6 E	6-0/3-6 E
(1 219) (1 207) 4' 0" 3' 11 ½"		2-6/4-0	3-0/4-0	4-0/4-0 E	5-0/4-0 E	6-0/4-0 E
(1 372) (1 359) 4' 6" 4' 5 ½"		2-6/4-6	3-0/4-6	4-0/4-6 E	5-0/4-6 E	6-0/4-6 E
(1 524) (1 511) 5' 0" 4' 11 ½"			3-0/5-0	4-0/5-0 E	5-0/5-0 E	6-0/5-0 E
(1 829) (1 816) 6' 0" 5' 11 ½"				4-0/6-0 E	5-0/6-0 E	6-0/6-0 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
E_1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
(1) Unit meets E_1 if high performance sill adapter kit is installed.
See Design Data pages in this section for clear opening dimensions.

Not to scale.
Special size units are available in 1/4" increments.
Vent-Fixed (XO) units are shown as viewed from the exterior. Fixed-Vent (OX) units are also available.



SLIDING WINDOW

SIZE TABLES

Fixed Units

Fixed Units

Opening	(610) (597) 2' 0"	(762) (749) 2' 6"	(914) (902) 3' 0"	(1 219) (1 207) 4' 0"	(1 524) (1 511) 5' 0"	(1 829) (1 816) 6' 0"
Frame	1' 11 ½"	2' 5 ½"	2' 11 ½"	3' 11 ½"	4' 11 ½"	5' 11 ½"
(356) (343) 1' 2" 1' 1 ½"	2-0/1-2	2-6/1-2	3-0/1-2	4-0/1-2	5-0/1-2	6-0/1-2
(457) (446) 1' 6" 1' 5 ½"	2-0/1-6	2-6/1-6	3-0/1-6	4-0/1-6	5-0/1-6	6-0/1-6
(610) (597) 2' 0" 1' 11 ½"	2-0/2-0	2-6/2-0	3-0/2-0	4-0/2-0	5-0/2-0	6-0/2-0
(762) (749) 2' 6" 2' 5 ½"				4-0/2-6	5-0/2-6	6-0/2-6
(914) (902) 3' 0" 2' 11 ½"				4-0/3-0	5-0/3-0	6-0/3-0
(1 067) (1 054) 3' 6" 3' 5 ½"				4-0/3-6	5-0/3-6	6-0/3-6
(1 219) (1 207) 4' 0" 3' 11 ½"				4-0/4-0	5-0/4-0	6-0/4-0
(1 372) (1 359) 4' 6" 4' 5 ½"				4-0/4-6	5-0/4-6	6-0/4-6
(1 524) (1 511) 5' 0" 4' 11 ½"				4-0/5-0	5-0/5-0	6-0/5-0

Not to scale.
Special size units are available in 1/4" increments.

SLIDING WINDOW

SIZE TABLES

Vent-Fixed Units (XO) – 12" Vent Units

Vent-Fixed Units (XO)

Opening (914) (902)	3' 0"	Opening (1 219) (1 207)	4' 0"	Opening (1 524) (1 511)	5' 0"	Opening (1 829) (1 816)	6' 0"
Frame	2' 11 ½"	Frame	3' 11 ½"	Frame	4' 11 ½"	Frame	5' 11 ½"
(457) (446) 1' 6"	1' 5 ½"						
	3-0/1-6		4-0/1-6		5-0/1-6		6-0/1-6
(610) (597) 2' 0"	1' 11 ½"						
	3-0/2-0		4-0/2-0		5-0/2-0		6-0/2-0
(762) (749) 2' 6"	2' 5 ½"						
	3-0/2-6		4-0/2-6		5-0/2-6		6-0/2-6
(914) (902) 3' 0"	2' 11 ½"						
	3-0/3-0		4-0/3-0		5-0/3-0		6-0/3-0
(1 067) (1 054) 3' 6"	3' 5 ½"						
	3-0/3-6		4-0/3-6		5-0/3-6		6-0/3-6
(1 219) (1 207) 4' 0"	3' 11 ½"						
	3-0/4-0		4-0/4-0		5-0/4-0		6-0/4-0
(1 372) (1 359) 4' 6"	4' 5 ½"						
	3-0/4-6		4-0/4-6		5-0/4-6		6-0/4-6
(1 524) (1 511) 5' 0"	4' 11 ½"						
	3-0/5-0		4-0/5-0		5-0/5-0		6-0/5-0
(1 829) (1 816) 6' 0"	5' 11 ½"						
			4-0/6-0		5-0/6-0		6-0/6-0

Not to scale.
Special size units are available in 1/4" increments up to 6' heights and widths ≥ 35-1/2".
XO units shown also available as OX.

SIZE TABLES

Vent-Fixed Units (XO) – Quarter Vent Units

Quarter Vent-Fixed Units (XO)

		(1 219) (1 207)	(1 524) (1 511)	(1 829) (1 816)
	Opening	4' 0"	5' 0"	6' 0"
	Frame	3' 11 ½"	4' 11 ½"	5' 11 ½"
(457) (446)	1' 6"	4-0/1-6	5-0/1-6	6-0/1-6
(610) (597)	2' 0"	4-0/2-0	5-0/2-0	6-0/2-0
(762) (749)	2' 6"	4-0/2-6	5-0/2-6	6-0/2-6
(914) (902)	3' 0"	4-0/3-0	5-0/3-0	6-0/3-0
(1 067) (1 054)	3' 6"	4-0/3-6	5-0/3-6	6-0/3-6
(1 219) (1 207)	4' 0"	4-0/4-0	5-0/4-0	6-0/4-0
(1 372) (1 359)	4' 6"	4-0/4-6	5-0/4-6	6-0/4-6
(1 524) (1 511)	5' 0"	4-0/5-0	5-0/5-0	6-0/5-0
(1 829) (1 816)	6' 0"	4-0/6-0	5-0/6-0	6-0/6-0

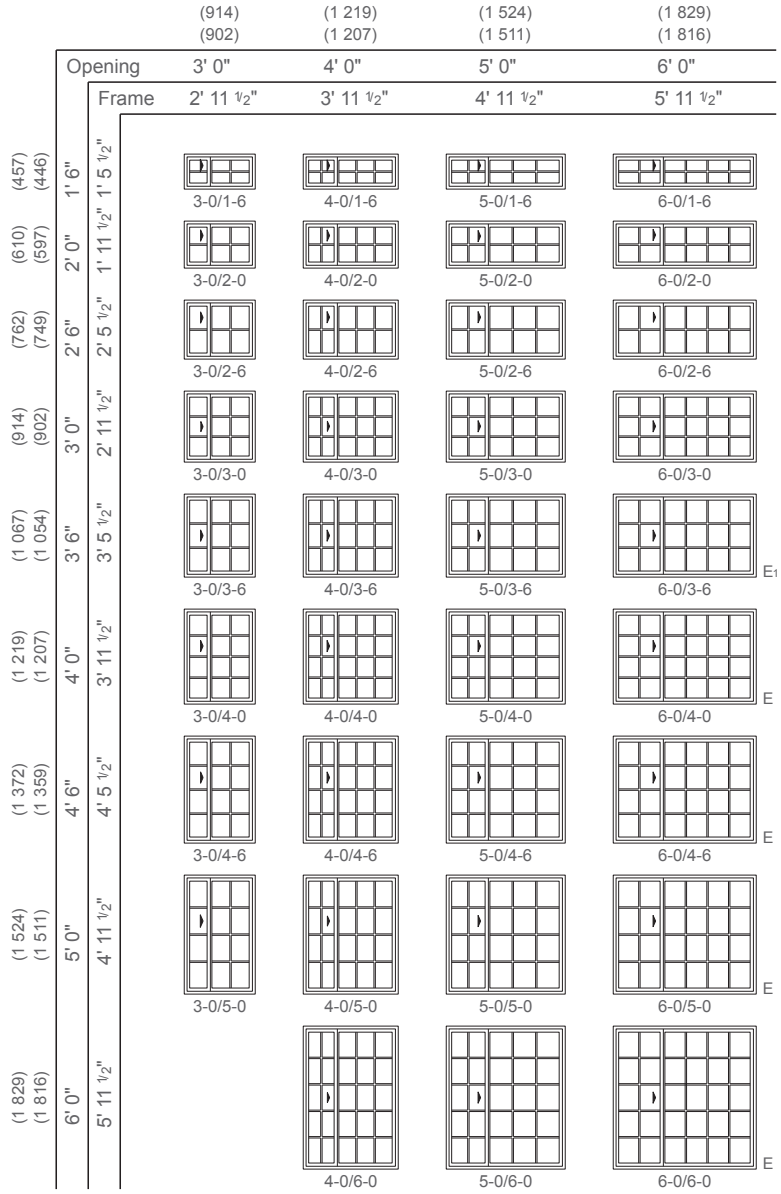
Frame
1' 5 ½"
1' 11 ½"
2' 5 ½"
2' 11 ½"
3' 5 ½"
3' 11 ½"
4' 5 ½"
4' 11 ½"
5' 11 ½"

Not to scale.
Special size units are available in 1/4" increments.
XO units shown also available as OX.

SIZE TABLES

Vent-Fixed Units (XO) – One Third Vent Units

Vent-Fixed Units (XO)



Egress Notes:

Check all applicable local codes for emergency egress requirements.

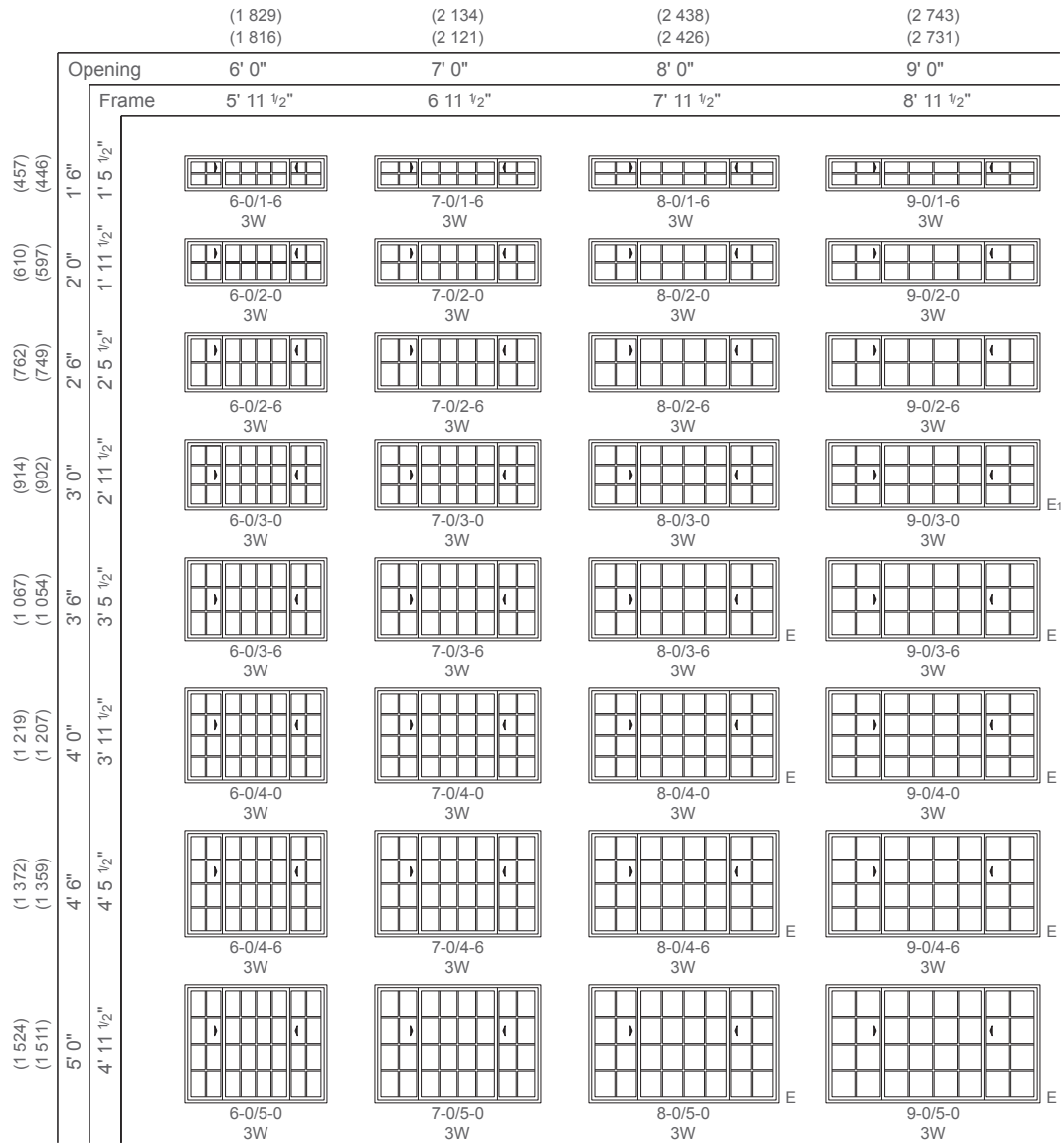
E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
See Design Data pages in this section for clear opening dimensions.

Not to scale.
Special size units are available in 1/4" increments up to 6' heights and widths ≥ 35-1/2".
XO units shown also available as OX.

SLIDING WINDOW

SIZE TABLES

Vent-Fixed-Vent Units (XOX) – Quarter Vent Units



Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
See Design Data pages in this section for clear opening dimensions.

Not to scale.
Special size units are available in 1/4" increments up to 6' heights and widths ≥ 47-1/2".

SLIDING WINDOW

SIZE TABLES

Vent-Fixed-Vent Units (XOX) – One Third Vent Units

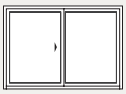
		(1 829) (1 816)	(2 134) (2 121)	(2 438) (2 426)	(2 743) (2 731)
	Opening	6' 0"	7' 0"	8' 0"	9' 0"
	Frame	5' 11 ½"	6 11 ½"	7' 11 ½"	8' 11 ½"
(457) (446)	1' 6"	1' 5 ½"	6-0/1-6 3W	7-0/1-6 3W	8-0/1-6 3W	9-0/1-6 3W
(610) (597)	2' 0"	1' 11 ½"	6-0/2-0 3W	7-0/2-0 3W	8-0/2-0 3W	9-0/2-0 3W
(762) (749)	2' 6"	2' 5 ½"	6-0/2-6 3W	7-0/2-6 3W	8-0/2-6 3W	9-0/2-6 3W E (1)
(914) (902)	3' 0"	2' 11 ½"	6-0/3-0 3W	7-0/3-0 3W E1	8-0/3-0 3W E	9-0/3-0 3W E
(1 067) (1 054)	3' 6"	3' 5 ½"	6-0/3-6 3W	7-0/3-6 3W E	8-0/3-6 3W E	9-0/3-6 3W E
(1 219) (1 207)	4' 0"	3' 11 ½"	6-0/4-0 3W	7-0/4-0 3W E	8-0/4-0 3W E	9-0/4-0 3W E
(1 372) (1 359)	4' 6"	4' 5 ½"	6-0/4-6 3W	7-0/4-6 3W E	8-0/4-6 3W E	9-0/4-6 3W E
(1 524) (1 511)	5' 0"	4' 11 ½"	6-0/5-0 3W	7-0/5-0 3W E	8-0/5-0 3W E	9-0/5-0 3W E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
(1) Unit meets E1 if high performance sill adapter kit is installed.
See Design Data pages in this section for clear opening dimensions.

Not to scale.
Special size units are available in 1/4" increments.



SLIDING WINDOW

DESIGN DATA

Two-Panel Vent-Fixed (XO)

Equal Sash Units

EQUAL SASH UNITS

Unit	Egress	Clear Opening [2]		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [3]
		Width (Inches)	Height (Inches)			Annealed	Tempered	
2-0/1-6		8-3/16	13-15/16	0.7	1.2	2.5	3	LC40/50
2-0/2-0		8-3/16	19-15/16	1.1	1.8	2.5	3	LC40/50
2-0/2-6		8-3/16	25-15/16	1.4	2.5	2.5	3	LC40/50
2-0/3-0		8-3/16	31-15/16	1.8	3.1	2.5	3	LC40/50
2-0/3-6		8-3/16	37-15/16	2.1	3.7	2.5	3	LC40/50
2-6/1-6		11-3/16	13-15/16	1.0	1.6	2.5	3	LC40/50
2-6/2-0		11-3/16	19-15/16	1.5	2.5	2.5	3	LC40/50
2-6/2-6		11-3/16	25-15/16	2.0	3.4	2.5	3	LC40/50
2-6/3-0		11-3/16	31-15/16	2.4	4.3	2.5	3	LC40/50
2-6/3-6		11-3/16	37-15/16	2.9	5.2	2.5	3	LC40/50
2-6/4-0		11-3/16	43-15/16	3.4	6.1	2.5	3	LC40/50
2-6/4-6		11-3/16	49-15/16	3.8	7.0	2.5	3	LC30/40
3-0/1-6		14-3/16	13-15/16	1.3	2.1	2.5	3	LC40/50
3-0/2-0		14-3/16	19-15/16	1.9	3.3	2.5	3	LC40/50
3-0/2-6		14-3/16	25-15/16	2.5	4.4	2.5	3	LC40/50
3-0/3-0		14-3/16	31-15/16	3.1	5.5	2.5	3	LC40/50
3-0/3-6		14-3/16	37-15/16	3.7	6.7	2.5	3	LC40/50
3-0/4-0		14-3/16	43-15/16	4.3	7.8	2.5	3	LC40/50
3-0/4-6		14-3/16	49-15/16	4.9	9.0	2.5	3	LC30/40
3-0/5-0		14-3/16	55-15/16	5.5	10.1	2.5	3	LC30/40
4-0/1-6		20-3/16	13-15/16	1.9	3.1	3	3	LC40/50
4-0/2-0		20-3/16	19-15/16	2.7	4.7	2.5	3	LC40/50
4-0/2-6		20-3/16	25-15/16	3.6	6.4	2.5	3	LC40/50
4-0/3-0		20-3/16	31-15/16	4.4	8.0	2.5	3	LC40/50
4-0/3-6	E1	20-3/16	37-15/16	5.3	9.6	2.5	3	LC40/50
4-0/4-0	E	20-3/16	43-15/16	6.1	11.3	2.5	3	LC40/50
4-0/4-6	E	20-3/16	49-15/16	7.0	12.9	2.5	3	LC30/40
4-0/5-0	E	20-3/16	55-15/16	7.8	14.6	2.5	3	LC30/40
4-0/6-0	E	20-3/16	67-15/16	9.5	17.8	2.5	3	LC30
5-0/1-6		26-3/16	13-15/16	2.5	4.0	2.5	3	LC40/50
5-0/2-0		26-3/16	19-15/16	3.6	6.2	2.5	3	LC40/50
5-0/2-6		26-3/16	25-15/16	4.7	8.3	2.5	3	LC40/50
5-0/3-0	E	26-3/16	31-15/16	5.8	10.5	2.5	3	LC40/50
5-0/3-6	E	26-3/16	37-15/16	6.8	12.6	2.5	3	LC30/40
5-0/4-0	E	26-3/16	43-15/16	7.9	14.7	2.5	3	LC30/40
5-0/4-6	E	26-3/16	49-15/16	9.0	16.9	2.5	3	LC30/40
5-0/5-0	E	26-3/16	55-15/16	10.1	19.0	2.5	3	LC30/40
5-0/6-0	E	26-3/16	67-15/16	12.3	23.3	3	3	LC30
6-0/1-6		32-3/16	13-15/16	3.1	5.0	2.5	3	LC40/50
6-0/2-0		32-3/16	19-15/16	4.4	7.6	2.5	3	LC40/50
6-0/2-6	E(1)	32-3/16	25-15/16	5.7	10.3	2.5	3	LC40/50
6-0/3-0	E	32-3/16	31-15/16	7.1	12.9	2.5	3	LC40/50
6-0/3-6	E	32-3/16	37-15/16	8.4	15.5	2.5	3	LC30/40
6-0/4-0	E	32-3/16	43-15/16	9.8	18.2	2.5	3	LC30/40
6-0/4-6	E	32-3/16	49-15/16	11.1	20.8	3	3	LC30/40
6-0/5-0	E	32-3/16	55-15/16	12.5	23.5	3	3	LC30/40
6-0/6-0	E	32-3/16	67-15/16	15.1	28.7	3	3	LC30

Egress Notes:

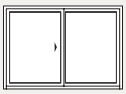
Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
- (1) = Unit meets E1 if high performance sill adapter kit is installed.

To convert areas to square meters (m²), multiply square feet (ft²) by 0.0929.

(2) Subtract 1/2" from opening height to calculate vent area for Performance Upgrade unit.

(3) Maximum performance when glazed with the appropriate glass thickness. The second value, where shown, is maximum performance with Performance Upgrade Kit applied.



SLIDING WINDOW

DESIGN DATA

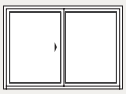
Two-Panel Vent-Fixed (XO)

12" Vent Units

12" VENT SASH UNITS

Unit	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]
	Width (Inches)	Height (Inches)			Annealed	Tempered	
3-0/1-6	8-3/16	13-15/16	0.7	2.1	2.5	3	LC40/50
3-0/2-0	8-3/16	19-15/16	1.1	3.3	2.5	3	LC40/50
3-0/2-6	8-3/16	25-15/16	1.4	4.4	2.5	3	LC40/50
3-0/3-0	8-3/16	31-15/16	1.8	5.5	2.5	3	LC40/50
3-0/3-6	8-3/16	37-15/16	2.1	6.7	2.5	3	LC30/40
3-0/4-0	8-3/16	43-15/16	2.4	7.8	2.5	3	LC30/40
3-0/4-6	8-3/16	49-15/16	2.8	9.0	3	3	LC30/40
3-0/5-0	8-3/16	55-15/16	3.1	10.1	3	3	LC30/40
4-0/1-6	8-3/16	13-15/16	0.7	3.1	2.5	3	LC40/50
4-0/2-0	8-3/16	19-15/16	1.1	4.7	2.5	3	LC40/50
4-0/2-6	8-3/16	25-15/16	1.4	6.4	2.5	3	LC40/50
4-0/3-0	8-3/16	31-15/16	1.8	8.0	2.5	3	LC40/50
4-0/3-6	8-3/16	37-15/16	2.1	9.6	2.5	3	LC30/40
4-0/4-0	8-3/16	43-15/16	2.4	11.3	2.5	3	LC30/40
4-0/4-6	8-3/16	49-15/16	2.8	12.9	3	3	LC30/40
4-0/5-0	8-3/16	55-15/16	3.1	14.6	3	3	LC30/40
4-0/6-0	8-3/16	67-15/16	3.8	17.8	3	3	LC30/40
5-0/1-6	8-3/16	13-15/16	0.7	4.0	2.5	3	LC40/50
5-0/2-0	8-3/16	19-15/16	1.1	6.2	2.5	3	LC40/50
5-0/2-6	8-3/16	25-15/16	1.4	8.3	2.5	3	LC40/50
5-0/3-0	8-3/16	25-15/16	1.4	10.5	2.5	3	LC40/50
5-0/3-6	8-3/16	37-15/16	2.1	12.6	2.5	3	LC30/40
5-0/4-0	8-3/16	43-15/16	2.4	14.7	2.5	3	LC30/40
5-0/4-6	8-3/16	49-15/16	2.8	16.9	3	3	LC30/40
5-0/5-0	8-3/16	55-15/16	3.1	19.0	3	3	LC30/40
5-0/6-0	8-3/16	67-15/16	3.8	23.3	3	3	LC30/40
6-0/1-6	8-3/16	13-15/16	0.7	5.0	2.5	3	LC40/50
6-0/2-0	8-3/16	19-15/16	1.1	7.6	2.5	3	LC40/50
6-0/2-6	8-3/16	25-15/16	1.4	10.3	2.5	3	LC40/50
6-0/3-0	8-3/16	31-15/16	1.8	12.9	2.5	3	LC40/50
6-0/3-6	8-3/16	37-15/16	2.1	15.5	2.5	3	LC30/40
6-0/4-0	8-3/16	43-15/16	2.4	18.2	2.5	3	LC30/40
6-0/4-6	8-3/16	49-15/16	2.8	20.8	3	3	LC30/40
6-0/5-0	8-3/16	55-15/16	3.1	23.5	3	3	LC30/40
6-0/6-0	8-3/16	67-15/16	3.8	28.7	3	3	LC30/40

(1) Maximum performance when glazed with the appropriate glass thickness.
The second value, where shown, is maximum performance with Performance Upgrade Kit applied.



SLIDING WINDOW

DESIGN DATA

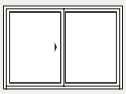
Two-Panel Vent-Fixed (XO)

Quarter Vent Units

QUARTER VENT UNITS

Unit	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]
	Width (Inches)	Height (Inches)			Annealed	Tempered	
4-0/1-6	9-5/8	13-15/16	0.9	3.1	2.5	3	LC40/50
4-0/2-0	9-5/8	19-15/16	1.3	4.7	2.5	3	LC40/50
4-0/2-6	9-5/8	25-15/16	1.7	6.4	2.5	3	LC40/50
4-0/3-0	9-5/8	31-15/16	2.1	8.0	2.5	3	LC40/50
4-0/3-6	9-5/8	37-15/16	2.5	9.6	2.5	3	LC30/40
4-0/4-0	9-5/8	43-15/16	2.9	11.3	2.5	3	LC30/40
4-0/4-6	9-5/8	49-15/16	3.3	12.9	2.5	3	LC30/40
4-0/5-0	9-5/8	55-15/16	3.7	14.6	3	3	LC30/40
4-0/6-0	9-5/8	67-15/16	4.5	17.8	3	3	LC30/40
5-0/1-6	12-5/8	13-15/16	1.2	4.0	2.5	3	LC40/50
5-0/2-0	12-5/8	19-15/16	1.7	6.2	2.5	3	LC40/50
5-0/2-6	12-5/8	25-15/16	2.2	8.3	2.5	3	LC40/50
5-0/3-0	12-5/8	37-15/16	2.7	10.5	2.5	3	LC40/50
5-0/3-6	12-5/8	43-15/16	3.3	12.6	2.5	3	LC30/40
5-0/4-0	12-5/8	49-15/16	3.8	14.7	2.5	3	LC30/40
5-0/4-6	12-5/8	55-15/16	4.3	16.9	2.5	3	LC30/40
5-0/5-0	12-5/8	67-15/16	4.8	19.0	2.5	3	LC30/40
5-0/6-0	15-5/8	13-15/16	5.9	23.3	3	3	LC30/40
6-0/1-6	15-5/8	19-15/16	1.5	5.0	2.5	3	LC40/50
6-0/2-0	15-5/8	25-15/16	2.1	7.6	2.5	3	LC40/50
6-0/2-6	15-5/8	31-15/16	2.8	10.3	2.5	3	LC40/50
6-0/3-0	15-5/8	32-15/16	3.4	12.9	2.5	3	LC40/50
6-0/3-6	15-5/8	37-15/16	4.1	15.5	2.5	3	LC30/40
6-0/4-0	15-5/8	43-15/16	4.7	18.2	2.5	3	LC30/40
6-0/4-6	15-5/8	49-15/16	5.4	20.8	3	3	LC30/40
6-0/5-0	15-5/8	55-15/16	6.0	23.5	3	3	LC30/40
6-0/6-0	15-5/8	67-15/16	7.3	28.7	3	3	LC30/40

(1) Maximum performance when glazed with the appropriate glass thickness.
The second value, where shown, is maximum performance with Performance Upgrade Kit applied.



SLIDING WINDOW

DESIGN DATA

Two Panel Vent-Fixed One-Third Vent Units

TWO-WIDE VENT-FIXED - THIRD VENT UNITS

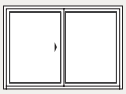
Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]
		Width (Inches)	Height (Inches)			Annealed	Tempered	
3-0/1-6		8-15/16	13-15/16	0.8	2.1	2.5	3	LC40/50
3-0/2-0		8-15/16	19-15/16	1.2	3.3	2.5	3	LC40/50
3-0/2-6		8-15/16	25-15/16	1.6	4.4	2.5	3	LC40/50
3-0/3-0		8-15/16	31-15/16	1.9	5.5	2.5	3	LC40/50
3-0/3-6		8-15/16	37-15/16	2.3	6.7	2.5	3	LC30/40
3-0/4-0		8-15/16	43-15/16	2.7	7.8	2.5	3	LC30/40
3-0/4-6		8-15/16	49-15/16	3.0	9.0	3	3	LC30/40
3-0/5-0		8-15/16	55-15/16	3.4	10.1	3	3	LC30/40
4-0/1-6		12-15/16	13-15/16	1.2	3.1	2.5	3	LC40/50
4-0/2-0		12-15/16	19-15/16	1.7	4.7	2.5	3	LC40/50
4-0/2-6		12-15/16	25-15/16	2.3	6.4	2.5	3	LC40/50
4-0/3-0		12-15/16	31-15/16	2.8	8.0	2.5	3	LC40/50
4-0/3-6		12-15/16	37-15/16	3.4	9.6	2.5	3	LC30/40
4-0/4-0		12-15/16	43-15/16	3.9	11.3	2.5	3	LC30/40
4-0/4-6		12-15/16	49-15/16	4.4	12.9	2.5	3	LC30/40
4-0/5-0		12-15/16	55-15/16	5.0	14.6	2.5	3	LC30/40
4-0/6-0		12-15/16	67-15/16	6.1	17.8	3	3	LC30/40
5-0/1-6		16-15/16	13-15/16	1.6	4.0	2.5	3	LC40/50
5-0/2-0		16-15/16	19-15/16	2.3	6.2	2.5	3	LC40/50
5-0/2-6		16-15/16	25-15/16	3.0	8.3	2.5	3	LC40/50
5-0/3-0		16-15/16	25-15/16	3.7	10.5	2.5	3	LC40/50
5-0/3-6		16-15/16	37-15/16	4.4	12.6	2.5	3	LC30/40
5-0/4-0		16-15/16	43-15/16	5.1	14.7	2.5	3	LC30/40
5-0/4-6		16-15/16	49-15/16	5.8	16.9	2.5	3	LC30/40
5-0/5-0		16-15/16	55-15/16	6.5	19.0	2.5	3	LC30/40
5-0/6-0		16-15/16	67-15/16	7.9	23.3	3	3	LC30/40
6-0/1-6		20-15/16	13-15/16	2.0	5.0	2.5	3	LC40/50
6-0/2-0		20-15/16	19-15/16	2.8	7.6	2.5	3	LC40/50
6-0/2-6		20-15/16	25-15/16	3.7	10.3	2.5	3	LC40/50
6-0/3-0		20-15/16	31-15/16	4.6	12.9	2.5	3	LC40/50
6-0/3-6	E_1	20-15/16	37-15/16	5.5	15.5	2.5	3	LC30/40
6-0/4-0	E	20-15/16	43-15/16	6.3	18.2	2.5	3	LC30/40
6-0/4-6	E	20-15/16	49-15/16	7.2	20.8	3	3	LC30/40
6-0/5-0	E	20-15/16	55-15/16	8.1	23.5	3	3	LC30/40
6-0/6-0	E	20-15/16	67-15/16	9.8	28.7	3	3	LC30/40

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
E_1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
To convert areas to square meters (m²), multiply square feet (ft²) by 0.0929.

(1) Maximum performance when glazed with the appropriate glass thickness.
The second value, where shown, is maximum performance with Performance Upgrade Kit applied.



SLIDING WINDOW

DESIGN DATA

Fixed Units

Quarter Vent Three Panel (XOX) Units

FIXED UNITS

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [3]
		Annealed	Tempered	
2-0/1-2	0.9	2.5	3	CW50
2-0/1-6	1.3	2.5	3	CW50
2-0/2-0	2.1	2.5	3	CW50
2-6/1-2	1.2	2.5	3	CW50
2-6/1-6	1.8	2.5	3	CW50
2-6/2-0	2.8	2.5	3	CW50
3-0/1-2	1.5	2.5	3	CW50
3-0/1-6	2.3	2.5	3	CW50
3-0/2-0	3.5	2.5	3	CW50
4-0/1-2	2.1	2.5	3	CW50
4-0/1-6	3.2	2.5	3	CW50
4-0/2-0	5.0	2.5	3	CW50
4-0/2-6	6.7	2.5	3	CW50
4-0/3-0	8.4	2.5	3	CW50
4-0/3-6	10.1	2.5	3	CW50
4-0/4-0	11.9	3	3	CW50
4-0/4-6	13.0	3	3	CW50
4-0/5-0	15.3	3	3	CW50
5-0/1-2	2.7	3	3	CW50
5-0/1-6	4.2	3	3	CW50
5-0/2-0	6.4	3	3	CW50
5-0/2-6	8.6	3	3	CW50
5-0/3-0	10.9	3	3	CW50
5-0/3-6	13.1	3	3	CW50
5-0/4-0	15.3	3	3	CW50
5-0/4-6	16.8	5	5	CW50
5-0/5-0	19.8	5	5	CW50
6-0/1-2	3.3	3	3	CW50
6-0/1-6	5.1	3	3	CW50
6-0/2-0	7.9	2.5	3	CW50
6-0/2-6	10.6	3	3	CW50
6-0/3-0	13.3	3	3	CW50
6-0/3-6	16.1	3	3	CW50
6-0/4-0	18.8	5	5	CW50
6-0/4-6	20.6	5	5	CW50
6-0/5-0	24.2	5	5	CW50

THREE PANEL QUARTER VENT UNITS

Unit	Egress	Clear Opening [2]			Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [3]
		Width (Inches)	Height (Inches)	Ft²			Annealed	Tempered	
6-0/1-6		16-1/2	13-15/16	1.5	3.0	4.8	3	3	LC35/LC50
6-0/2-0		16-1/2	19-15/16	2.1	4.3	7.4	2.5	3	LC35/LC50
6-0/2-6		16-1/2	25-15/16	2.8	5.6	9.9	2.5	3	LC35/LC50
6-0/3-0		16-1/2	31-15/16	3.4	6.9	12.5	2.5	3	LC35/LC50
6-0/3-6		16-1/2	37-15/16	4.1	8.2	15.0	2.5	3	LC30
6-0/4-0		16-1/2	43-15/16	4.7	9.5	17.6	2.5	3	LC30
6-0/4-6		16-1/2	49-15/16	5.4	10.8	20.1	3	3	LC30
6-0/5-0		16-1/2	55-15/16	6.0	12.1	22.7	3	3	LC30
7-0/1-6		19-1/2	13-15/16	1.7	3.5	5.8	3	3	LC35/LC50
7-0/2-0		19-1/2	19-15/16	2.5	5.1	8.8	2.5	3	LC35/LC50
7-0/2-6		19-1/2	25-15/16	3.3	6.6	11.9	2.5	3	LC35/LC50
7-0/3-0		19-1/2	31-15/16	4.1	8.2	14.9	2.5	3	LC35/LC50
7-0/3-6		19-1/2	37-15/16	4.8	9.7	18.0	2.5	3	LC30
7-0/4-0		19-1/2	43-15/16	5.6	11.3	21.0	3	3	LC30
7-0/4-6		19-1/2	49-15/16	6.4	12.8	24.1	3	3	LC30
7-0/5-0		19-1/2	55-15/16	7.2	14.4	27.2	3	3	LC30
8-0/1-6		22-1/2	13-15/16	2.0	4.1	6.7	3	3	LC30
8-0/2-0		22-1/2	19-15/16	2.9	5.9	10.3	2.5	3	LC30
8-0/2-6		22-1/2	25-15/16	3.8	7.7	13.8	2.5	3	LC30
8-0/3-0		22-1/2	31-15/16	4.7	9.5	17.4	2.5	3	LC30
8-0/3-6	E	22-1/2	37-15/16	5.6	11.3	20.9	3	3	LC30
8-0/4-0	E	22-1/2	43-15/16	6.5	13.1	24.5	3	3	LC30
8-0/4-6	E	22-1/2	49-15/16	7.4	14.9	28.1	3	3	LC30
8-0/5-0	E	22-1/2	55-15/16	8.3	16.7	31.6	3	3	LC30
9-0/1-6		25-1/2	13-15/16	2.3	4.7	7.7	3	3	LC30
9-0/2-0		25-1/2	19-15/16	3.4	6.8	11.7	3	3	LC30
9-0/2-6		25-1/2	25-15/16	4.4	8.8	15.8	2.5	3	LC30
9-0/3-0	E1	25-1/2	31-15/16	5.4	10.9	19.8	2.5	3	LC30
9-0/3-6	E	25-1/2	37-15/16	6.4	12.9	23.9	3	3	LC30
9-0/4-0	E	25-1/2	43-15/16	7.5	15.0	28.0	3	3	LC30
9-0/4-6	E	25-1/2	49-15/16	8.5	17.0	32.0	3	3	LC30
9-0/5-0	E	25-1/2	55-15/16	9.5	19.1	36.1	5	5	LC30

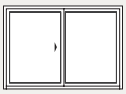
Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
To convert areas to square meters (m²), multiply square feet (ft²) by 0.0929.

(2) Subtract 1/2" from opening height to calculate vent area for Performance Upgrade unit.

(3) Maximum performance when glazed with the appropriate glass thickness. The second value, where shown, is maximum performance with Performance Upgrade Kit applied.



SLIDING WINDOW

DESIGN DATA

One Third Vent Three Panel (XOX) Units

ONE THIRD VENT THREE PANEL UNITS

Unit	Egress	Clear Opening [2]			Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [3]
		Width (Inches)	Height (Inches)	Ft²			Annealed	Tempered	
6-0/1-6		19-3/4	13-15/16	2.0	2.0	4.8	2.5	3	LC35/LC50
6-0/2-0		19-3/4	19-15/16	2.8	2.8	7.4	2.5	3	LC35/LC50
6-0/2-6		19-3/4	25-15/16	3.7	3.7	9.9	2.5	3	LC35/LC50
6-0/3-0		19-3/4	31-15/16	4.6	4.6	12.4	2.5	3	LC35/LC50
6-0/3-6		19-3/4	37-15/16	5.5	5.5	15.0	2.5	3	LC30
6-0/4-0		19-3/4	43-15/16	6.3	6.3	17.5	2.5	3	LC30
6-0/4-6		19-3/4	49-15/16	7.2	7.2	20.0	2.5	3	LC30
6-0/5-0		19-3/4	55-15/16	8.1	8.1	22.6	2.5	3	LC30
7-0/1-6		23-3/4	13-15/16	2.4	2.4	5.8	2.5	3	LC35/LC50
7-0/2-0		23-3/4	19-15/16	3.4	3.4	8.8	2.5	3	LC35/LC50
7-0/2-6		23-3/4	25-15/16	4.4	4.4	11.9	2.5	3	LC35/LC50
7-0/3-0	E1	23-3/4	31-15/16	5.5	5.5	14.9	2.5	3	LC35/LC50
7-0/3-6	E	23-3/4	37-15/16	6.5	6.5	17.9	2.5	3	LC30
7-0/4-0	E	23-3/4	43-15/16	7.6	7.6	21.0	2.5	3	LC30
7-0/4-6	E	23-3/4	49-15/16	8.6	8.6	24.0	2.5	3	LC30
7-0/5-0	E	23-3/4	55-15/16	9.6	9.6	27.0	2.5	3	LC30
8-0/1-6		27-3/4	13-15/16	2.8	2.8	6.7	2.5	3	LC30
8-0/2-0		27-3/4	19-15/16	4.0	4.0	10.3	2.5	3	LC30
8-0/2-6		27-3/4	25-15/16	5.2	5.2	13.8	2.5	3	LC30
8-0/3-0	E	27-3/4	31-15/16	6.4	6.4	17.3	2.5	3	LC30
8-0/3-6	E	27-3/4	37-15/16	7.6	7.6	20.9	2.5	3	LC30
8-0/4-0	E	27-3/4	43-15/16	8.8	8.8	24.4	2.5	3	LC30
8-0/4-6	E	27-3/4	49-15/16	10.0	10.0	27.9	2.5	3	LC30
8-0/5-0	E	27-3/4	55-15/16	11.2	11.2	31.5	3	3	LC30
9-0/1-6		31-3/4	13-15/16	3.1	3.1	7.7	2.5	3	LC30
9-0/2-0		31-3/4	19-15/16	4.5	4.5	11.7	2.5	3	LC30
9-0/2-6	E(1)	31-3/4	25-15/16	5.9	5.9	15.8	2.5	3	LC30
9-0/3-0	E	31-3/4	31-15/16	7.3	7.3	19.8	2.5	3	LC30
9-0/3-6	E	31-3/4	37-15/16	8.6	8.6	23.8	2.5	3	LC30
9-0/4-0	E	31-3/4	43-15/16	10.0	10.0	27.9	2.5	3	LC30
9-0/4-6	E	31-3/4	49-15/16	11.4	11.4	31.9	3	3	LC30
9-0/5-0	E	31-3/4	55-15/16	12.7	12.7	35.9	3	3	LC30

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
(1) = Unit meets E1 if high performance sill adapter kit is installed.
To convert areas to square meters (m²), multiply square feet (ft²) by 0.0929.

(2) Subtract 1/2" from opening height to calculate vent area for High Performance unit.
(3) Maximum performance when glazed with the appropriate glass thickness.
The second value, where shown, is maximum performance with Performance Upgrade Kit applied.

Miscellaneous Formulas

	TOTAL GLASS WIDTH (TGW)	ACTUAL VENT GLASS WIDTH (AVGW)	ACTUAL FIXED GLASS WIDTH (AFGW)	ACTUAL VENT GLASS HEIGHT	VISIBLE FIXED GLASS WIDTH	VISIBLE VENT GLASS HEIGHT
12" VENT OX AND XO	FW - 6-1/4"	8-5/8"	TGW - AVGW	FH – 5-1/8"	AFGW – 15/16"	FH – 6-1/16"
QUARTER VENT OX AND XO	FW - 6-1/4"	(FW – 7-3/8") x 1/4	TGW - AVGW	FH – 5-1/8"	AFGW – 15/16"	FH – 6-1/16"
ONE THIRD VENT OX AND XO	FW - 6-1/4"	(FW – 7-3/8") x 1/3	TGW - AVGW	FH – 5-1/8"	AFGW – 15/16"	FH – 6-1/16"
ONE HALF VENT OX AND XO	FW - 6-1/4"	(FW/2) – 3-1/8"	TGW - AVGW	FH – 5-1/8"	AFGW – 15/16"	FH – 6-1/16"
QUARTER VENT XOX	FW – 7-3/8"	TGW x 1/4	TGW x 1/2	FH – 5-1/8"	AFGW – 15/16"	FH – 6-1/16"
ONE THIRD VENT XOX	FW – 7-3/8"	TGW/3	TGW/3	FH – 5-1/8"	AFGW – 15/16"	FH – 6-1/16"

Clear Opening Formulas[1]

(OX AND XO)

Width = (AVGW – 7/16")
Height = Frame Height – 3-9/16"

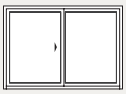
(XOX)

Width = 2 x (AVGW – 7/16")
Height = Frame Height – 3-9/16"

Special Sizes[2]

WINDOW TYPE	MINIMUM	MAXIMUM
Two Panel Vent OX and XO	23-1/2" W x 11-1/2" H	71-1/2" W x 71-1/2" H
Three Panel Vent XOX	47-1/2" W x 17-1/2" H	107-1/2" W x 71-1/2" H

(1) Subtract 1/2" from opening height to calculate vent area for High Performance unit.
(2) Special sized XOX units >59-1/2" in height are not performance rated.



SLIDING WINDOW

DETAILED PRODUCT DESCRIPTIONS

FRAME

- Frame is Duracast® fiberglass composite – five-layer pultruded fiberglass material [with optional foam insulation[1]] reinforced with a Pella patented interlocking mat.
- Overall frame depth is 3".
- Nominal wall thickness of Duracast fiberglass composite members is .050" to .070" thick.
- Frame corners are mitered, joined and bonded with corner lock and mechanically fastened with injected polyurethane adhesive.
- Sill is fitted with weep valve assemblies.
- Jambs contain factory-drilled (counter-bored) installation screw holes on block frame and flush flange only.

SASH

- Sash is Duracast fiberglass composite – five-layer pultruded fiberglass material [with optional foam insulation[1]] reinforced with a Pella patented interlocking mat.
- All sash members have mitered corners bonded with corner lock and sealed with injected polyurethane adhesive.
- Vent sash can be removed for cleaning.

EXTERIOR / INTERIOR

- Duracast fiberglass composite surfaces with powder-coat paint finish.
  - Color is [White] [Tan] [Brown] [Black] [Morning Sky Gray].

    - or -
  - Dual-color option [Tan] [Brown] [Black] [Morning Sky Gray] exterior with White interior[2].

GLAZING SYSTEM

- Quality float glass complying with ASTM C 1036.
- 11/16" insulating glass [[annealed] [tempered]] [obscure[3]] [[clear] [Advanced] [SunDefense™] [AdvancedComfort] [NaturalSun] Low-E coated, with argon]] sealed and bonded to sash.
- High altitude glazing [with argon] available.

WEATHERSTRIPPING

- Sash is weatherstripped with a dual fin-type pile weatherstrip around perimeter of sash.

HARDWARE

- Vents are equipped with two nylon roller housings containing two acetal rollers each. Vent-panel sash is fully operable for ventilation.
- Rollers may be removed for cleaning and/or maintenance.
- All fasteners are corrosion-resistant material.
- Two locks are installed on units 37" high or greater.
- Locks are zinc die-cast, self aligning cam action factory-installed on the interlocker [powder-coat painted [White] [Tan] [Brown] [Black] [Morning Sky Gray] to match finish] [Satin Nickel] [Bright Brass] [Oil-Rubbed Bronze].

OPTIONAL PRODUCTS

Screens

- Conventional Black Fiberglass
  - Half-size with black vinyl coated 18/16 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201.
  - Set in aluminum frame and fitted to outside of window.
  - Supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, color to match exterior.

    - or -
- InView™ Screens
  - Half-size with black vinyl coated 18/18 mesh fiberglass screen cloth complying with SMA 1201.
  - Set in aluminum frame and fitted to outside of window.
  - Supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, color to match exterior.

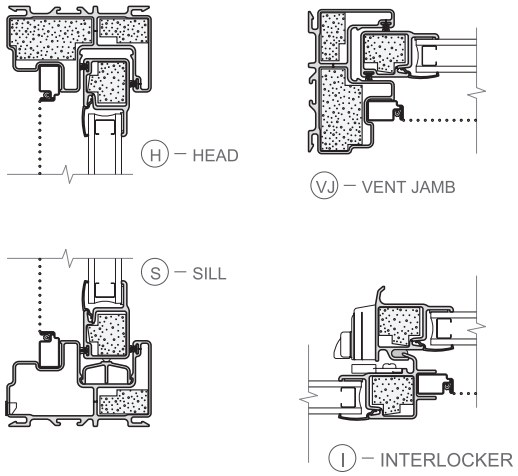
Grilles

- Grilles-Between-the-Glass
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Grilles are factory prefinished [White] [Tan] [Brown] [Black] [Morning Sky Gray] to match interior and exterior finish.

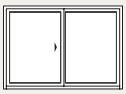
Hardware

- Optional limited opening device available for all venting units; nominal 3" opening. Off-white rubber bumper to be installed at the head of the venting unit.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

FOAM INSULATION INSERTS[1]



(1) Foam insulation inserts are not available with clear glazing.
(2) Dual-color finish is not available on products with integral nailing fin.
(3) Obscure glazing is not available when AdvancedComfort Low-E coated IG is specified.

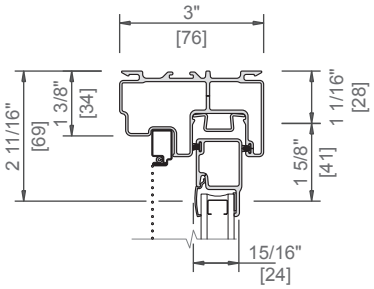


SLIDING WINDOW

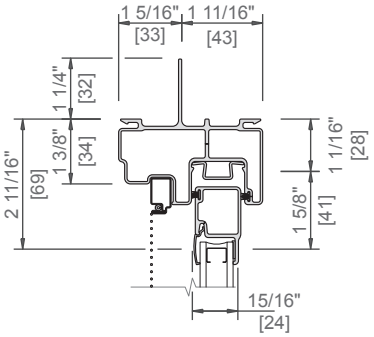
UNIT SECTIONS

Frame Types

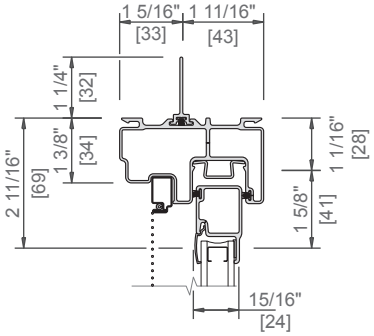
STANDARD BLOCK FRAME



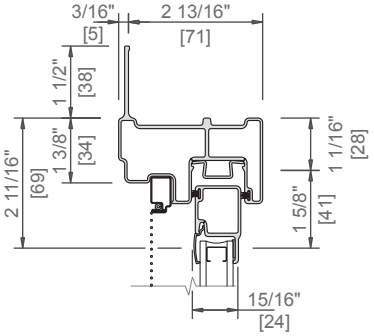
INTEGRAL NAILING FIN



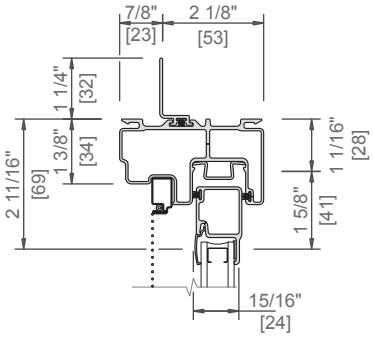
BLOCK FRAME STANDARD FIN



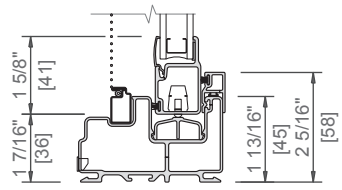
FLUSH FLANGE



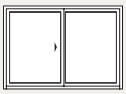
BLOCK FRAME OFFSET FIN



BLOCK FRAME DP50 SILL DAM



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

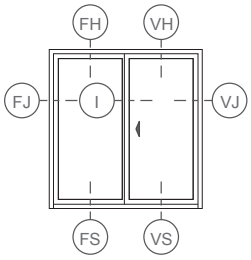


SLIDING WINDOW

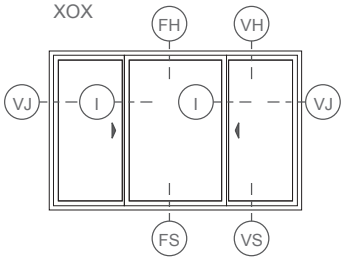
UNIT SECTIONS

Block Frame

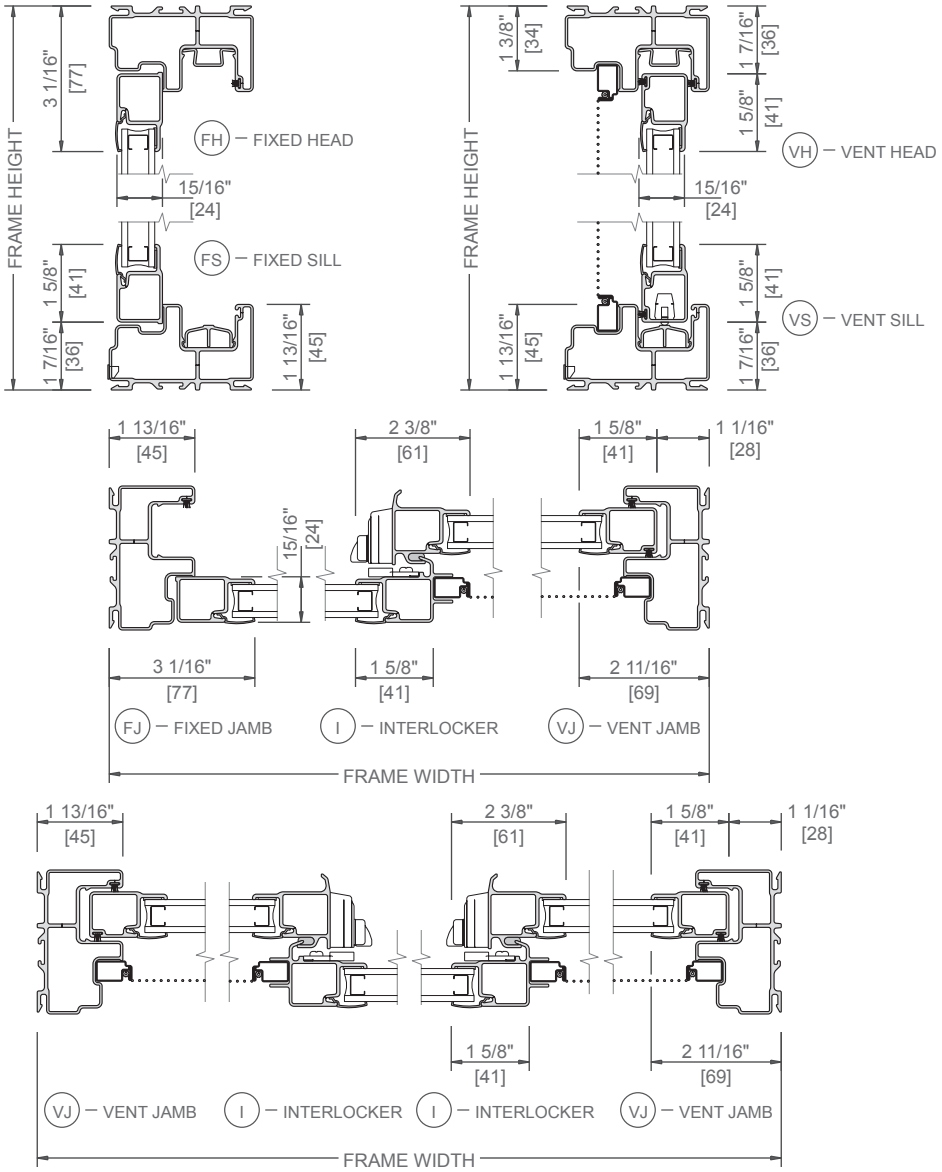
OX



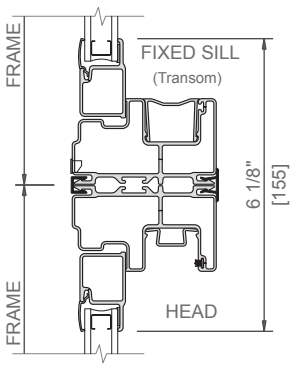
XOX



BLOCK FRAME

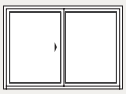


TYPICAL JOINING MULLION



JOINING MULLION
(Horizontal or Vertical,
Horizontal Shown)

Scale 3" = 1' 0"
All dimensions are approximate.
See Combination section for mullion applications and structural limitations.

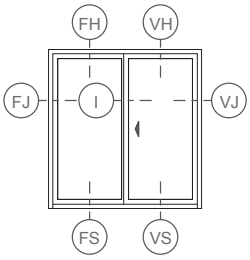


SLIDING WINDOW

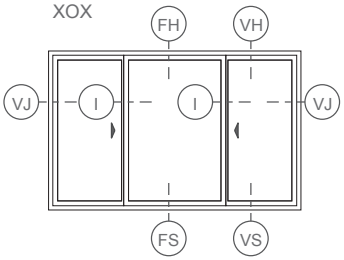
UNIT SECTIONS

Integral Nailing Fin Frame

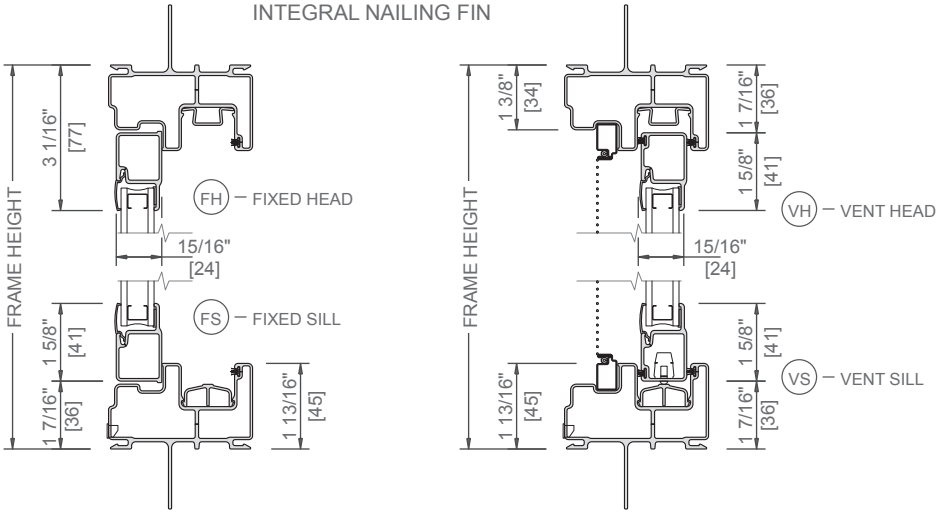
OX

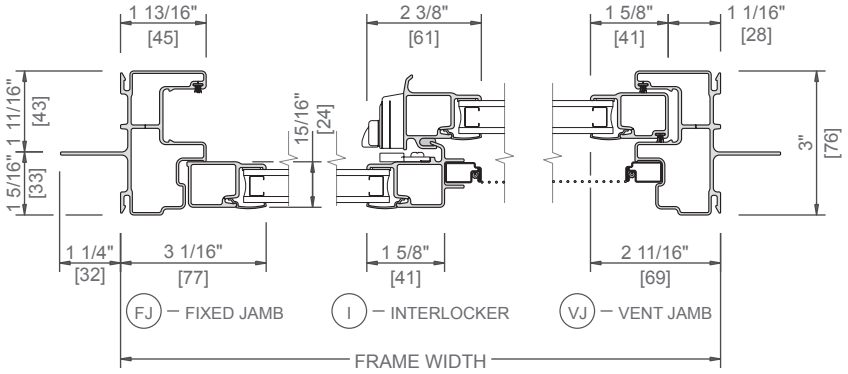


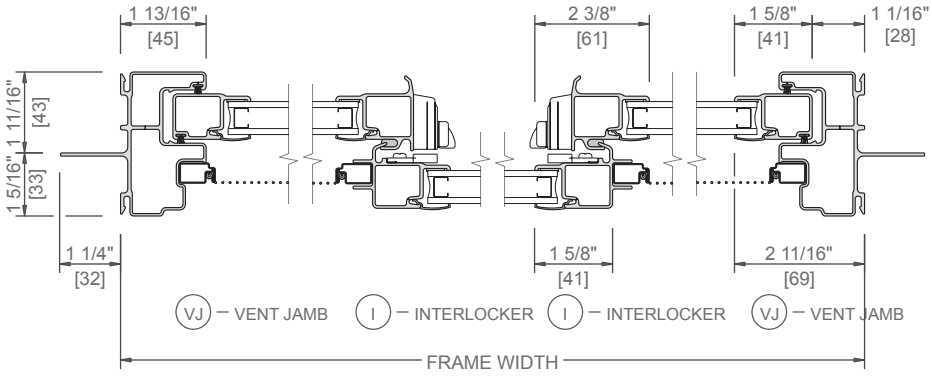
XOX



INTEGRAL NAILING FIN

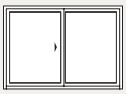






Scale 3" = 1' 0"

All dimensions are approximate.

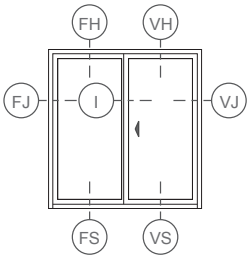


SLIDING WINDOW

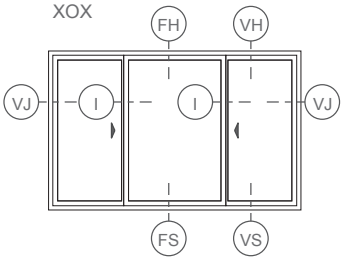
UNIT SECTIONS

Flush Flange Frame

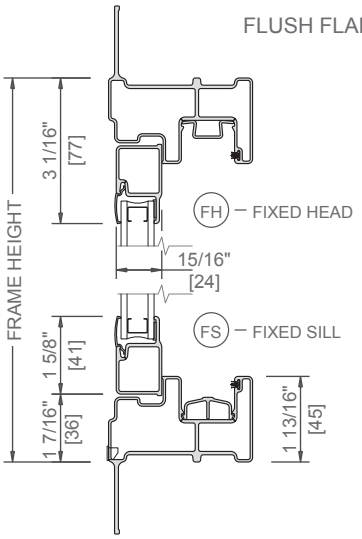
OX

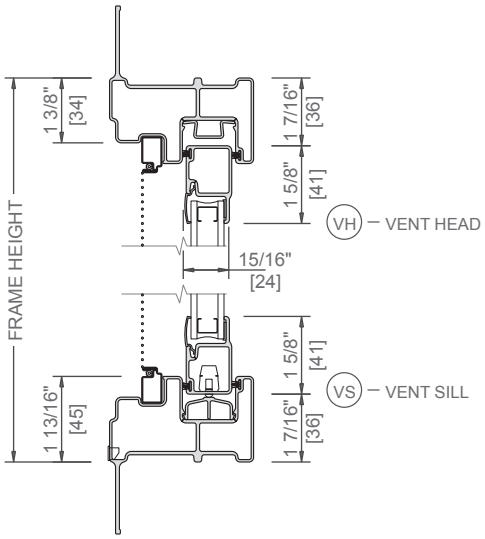


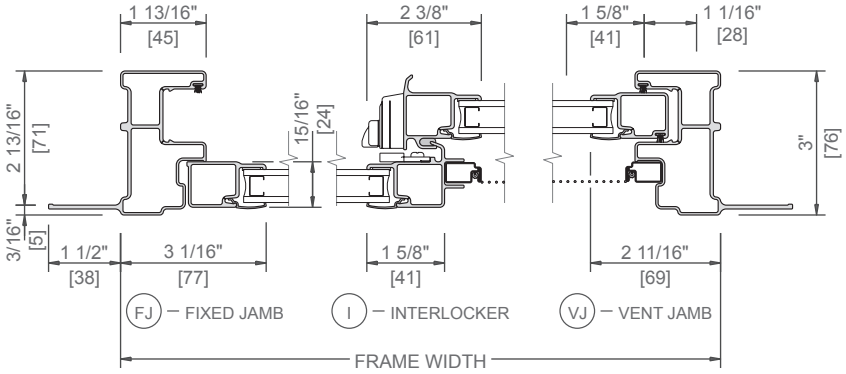
XOX

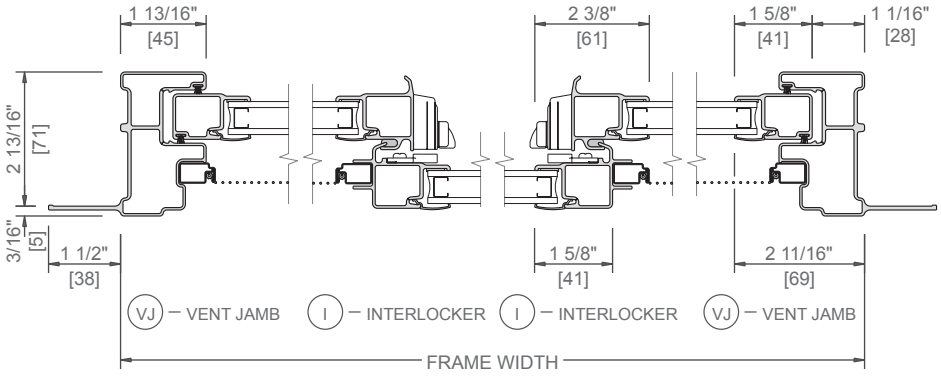


FLUSH FLANGE









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