



SLIDING WINDOW

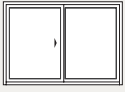
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Pella® 350 Series Sliding Window

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SLIDING WINDOW

BRAND SUMMARY



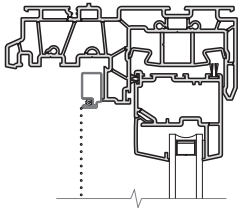
Pella® 350 Series Sliding Windows

feature an extruded, rigid PVC (polyvinyl chloride) frame and sash with heat-fused mitered corners for a fully welded corner assembly. The SmoothSeam™ welded corners on the interior of the sash are virtually invisible. Sliding Windows meet industry standards for water infiltration and wind resistance and meet ENERGY STAR® guidelines with dual-pane or triple-pane insulated glass. Standard performance window sash are available with optional foam insulation for increased thermal performance.

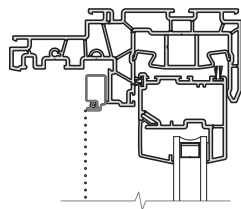
BLOCK FRAME DESIGN

4-1/2" Block or 3-1/4" Block Pocket Install

- 3-1/4" Block Pocket Install Frame allows a perfect fit into a 3-1/4" pocket when installed into an existing Double-Hung or Single-Hung wood frame from the interior.
- 4-1/2" block frame can be used in new construction block or concrete walls. They may also be used in replacement of old aluminum or steel frame windows or pocket replacement into wood frames from the exterior.
- The block frames include interior and exterior accessory grooves.
- Custom sizes are available in 1/8" increments - for a perfect fit.



4-1/2" Block Frame

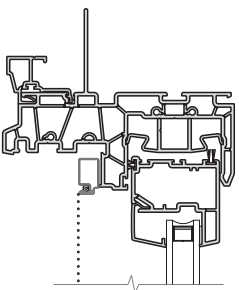


3-1/4" Block Pocket Install

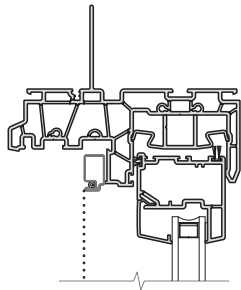
NAIL FIN FRAME DESIGN

With or Without Integrated J-Channel

- Continuous fin with welded corners adds a protective weather barrier and allows for hassle-free installation.
- The standard 4-1/2" frame depth includes interior and exterior accessory grooves.
- Nailing fin has a 1-7/16" setback from exterior face of window frame.
- Custom sizes are available in 1/8" increments - for a perfect fit.
- 4-9/16" and 6-9/16" factory applied primed or clear jamb extensions are available.



With J-Channel



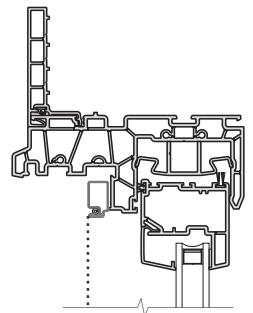
Without J-Channel



DOUBLE-WALL FLUSH FLANGE

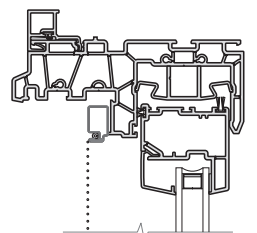
Replacement Frame Design

- The flush flange frame allows for easy replacement of old aluminum or steel frame windows without removing the existing frame head or jambs - typically used with stucco exteriors in southwest arid climates.
- The frame depth is 4-1/2" (overall wall depth of 4-1/16") includes interior accessory groove.
- Custom sizes are available in 1/8" increments - for a perfect fit.



INTEGRAL 5/8" FLANGE FRAME

- The integral 5/8" flange frame can be used in new construction block or concrete walls. Commonly used in Florida and often referred to as "Florida Flange" frame.
- The frame depth is 4-1/2" (overall wall depth of 3-7/8") includes interior accessory groove.
- Custom sizes are available in 1/8" increments - for a perfect fit.





SLIDING WINDOW

PRODUCT SELECTION GUIDE

Size and Performance Data
Sound Transmission Class



SIZES

Standard Sizes	S
Special Sizes Available Built on 1/8" Increments	O

FRAMES

Nail Fin Only	O
Nail Fin with J-Channel	O
4-1/2" Block	S
3-1/4" Block Pocket Install / Replacement	S
Double-Wall Flush Flange	O
Integral 5/8" Flange	O

PERFORMANCE ₁

Standard Performance

Meets or Exceeds AAMA/WDMA Ratings	LC-PG40 Hallmark Certified
Air Infiltration ₂ (cfm/ft ² of frame @ 1.57 psf wind pressure.)	0.06
Design Pressure	40 psf
Water Penetration Resistance	6.06 psf

Other Performance Criteria

Forced Entry Resistance (Minimum Security Grade) ₃	10
Maximum Operating Force (lb) (Initiate Motion/Maintain Motion)	50/35

Sound Transmission Class and Outdoor-Indoor Transmission Class

Frame Size Tested ₄	Glazing System				STC Rating	OITC Rating
	Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
SLIDING WINDOW - DUAL PANE INSULATING GLASS						
60" x 48"	1 1/16"	3mm	3mm	–	28	22
60" x 48"	1 1/16"	3mm	5mm	–	32	26
SLIDING WINDOW - TRIPLE-PANE INSULATING GLASS						
60" x 48"	1-1/4"	3mm	3mm	3mm	29	23

S = Standard; O = Optional

(1) Published performance data is for single unit only. See Design Data pages in this section for specific product performance class and grade values. Performance with additional options may not be the same as Standard and Special size units. Please contact your local Pella representative for complete information.

(2) Published performance Data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless notes. Actual product performance may vary for a number of reasons including installation and product care.

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

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

The presence of low-E or argon have negligible effect on sound attenuation characteristics.



SLIDING WINDOW

PRODUCT SELECTION GUIDE

Features and Options



GLAZING (INSULATING GLASS)

Glazing Type

Dual-pane insulating glass	S
Triple-pane insulating glass	O

Insulated Glass Options / Low-E Types

Advanced Low-E	S
NaturalSun Low-E	O
SunDefense™ Low-E ₁	O
Gray Low-E ₁	O
Bronze-tinted Advanced Low-E ₁	O

Additional Glazing Options

Annealed glass	S
Tempered glass	O
Obscure glass ₂	O
Noise reduction glass (STC 3mm/5mm combination) ₁	O

Gas Fill / High Altitude

Argon	S
High altitude	O
High altitude with argon ₁	O

SASH

Foam Insulation	O
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INTERIOR / EXTERIOR COLOR

White	S
Almond	O
Brown exterior/White interior	O

HARDWARE

Color matched hardware	S
Bright Brass, Satin Nickel or Oil-Rubbed Bronze	O

Sash Locks

Standard Cam Lock	S
Autolock	O

SCREENS

Conventional black fiberglass screens - flat	S
InView™ screens	O

GRILLES

Grilles-Between-the-Glass

Traditional, Prairie, Top Row, Custom - Equally Divided	O
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Simulated-Divided-Light Grilles₁ (without spacer)

Traditional, Prairie, Top Row, Custom - Equally Divided	O
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S = Standard; O = Optional

(1) Not available with triple-pane glazing.

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



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GLAZING PERFORMANCE - TOTAL UNIT

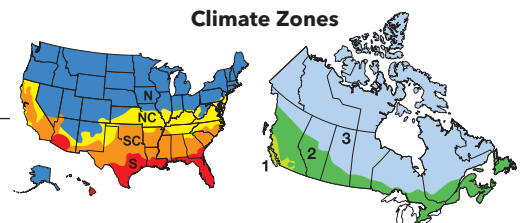
11/16" Insulating Glass with 3mm Glass



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.				Canada ₂				
										Zone				ER	Zone			
										N	NC	SC	S	1 2 3				
11/16"	Advanced Low-E IG	PEL-N-192-00006-00001	3	3	air	0.31	0.29	53	55						15			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00122-00001				0.33	0.26	47	55						11			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00234-00001				0.31	0.26	47	55						14			
11/16"	Advanced Low-E IG	PEL-N-192-00042-00001	3	3	argon	0.28	0.28	53	59						18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00154-00001				0.29	0.26	47	59						16			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00266-00001				0.28	0.26	47	59						17			
11/16"	NaturalSun Low-E IG	PEL-N-192-00007-00001	3	3	air	0.32	0.52	60	55						27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00123-00001				0.34	0.47	54	55						22			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00235-00001				0.32	0.47	54	55						24			
11/16"	NaturalSun Low-E IG	PEL-N-192-00043-00001	3	3	argon	0.29	0.52	60	58						31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00155-00001				0.30	0.47	54	58						27			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00267-00001				0.29	0.47	54	58						28			
11/16"	SunDefense™ Low-E IG	PEL-N-192-00008-00001	3	3	air	0.31	0.21	49	56						11			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00124-00001				0.33	0.19	44	56						7			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00236-00001				0.31	0.19	44	56						9			
11/16"	SunDefense Low-E IG	PEL-N-192-00044-00001	3	3	argon	0.27	0.21	49	59						16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00156-00001				0.29	0.19	44	59						12			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00268-00001				0.27	0.19	44	59						14			
VENT – WITH FOAM INSERTS																		
11/16"	Advanced Low-E IG	PEL-N-192-00074-00001	3	3	air	0.31	0.29	53	55						15			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00186-00001				0.31	0.26	47	62						14			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00294-00001				0.31	0.26	47	55						14			
11/16"	Advanced Low-E IG	PEL-N-192-00098-00001	3	3	argon	0.27	0.28	53	59						20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00210-00001				0.29	0.26	47	59						16			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00314-00001				0.27	0.26	47	59						18			
11/16"	NaturalSun Low-E IG	PEL-N-192-00075-00001	3	3	air	0.31	0.52	60	55						29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00187-00001				0.33	0.47	54	55						23			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00295-00001				0.31	0.47	54	55						26			
11/16"	NaturalSun Low-E IG	PEL-N-192-00099-00001	3	3	argon	0.28	0.52	6	58						32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00211-00001				0.29	0.47	54	58						28			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00315-00001				0.28	0.47	54	58						29			
11/16"	SunDefense™ Low-E IG	PEL-N-192-00076-00001	3	3	air	0.30	0.21	49	56						12			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00188-00001				0.32	0.19	44	56						8			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00296-00001				0.30	0.19	44	56						11			
11/16"	SunDefense Low-E IG	PEL-N-192-00100-00001	3	3	argon	0.27	0.21	49	59						16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00212-00001				0.28	0.19	44	59						13			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00316-00001				0.27	0.19	44	59						14			

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.
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GLAZING PERFORMANCE - TOTAL UNIT

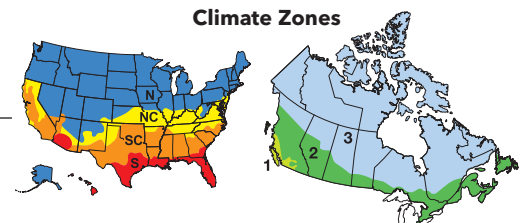
11/16" Insulating Glass with 3mm / 5mm Glass



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.			Canada ₂						
										Zone	ER	Zone	1	2	3				
VENT										N	NC	SC	S						
11/16"	Advanced Low-E IG	PEL-N-192-00011-00001	3	5	air	0.33	0.28	53	53										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00127-00001				0.37	0.26	47	53										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00239-00001				0.33	0.26	47	53										
11/16"	Advanced Low-E IG	PEL-N-192-00047-00001	3	5	argon	0.29	0.28	53	56										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00159-00001				0.32	0.25	47	56										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00271-00001				0.29	0.25	47	56										
11/16"	NaturalSun Low-E IG	PEL-N-192-00012-00001	3	5	air	0.34	0.50	60	52										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00128-00001				0.37	0.45	53	52										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00240-00001				0.34	0.45	53	52										
11/16"	NaturalSun Low-E IG	PEL-N-192-00048-00001	3	5	argon	0.30	0.50	60	56						29				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00160-00001				0.33	0.45	53	56										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00272-00001				0.30	0.45	53	56						26				
11/16"	SunDefense™ Low-E IG	PEL-N-192-00013-00001	3	5	air	0.33	0.22	49	53										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00129-00001				0.36	0.20	43	53										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00241-00001				0.33	0.20	43	53										
11/16"	SunDefense Low-E IG	PEL-N-192-00049-00001	3	5	argon	0.28	0.21	49	57										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00161-00001				0.32	0.19	43	57										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00273-00001				0.28	0.19	43	57										
VENT - WITH FOAM INSERTS																			
11/16"	Advanced Low-E IG	PEL-N-192-00079-00001	3	5	air	0.33	0.28	53	53										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00191-00001				0.36	0.26	47	53										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00299-00001				0.33	0.26	47	53										
11/16"	Advanced Low-E IG	PEL-N-192-00103-00001	3	5	argon	0.28	0.28	53	56						18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00215-00001				0.32	0.25	47	56										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00319-00001				0.28	0.25	47	56						17				
11/16"	NaturalSun Low-E IG	PEL-N-192-00080-00001	3	5	air	0.33	0.50	6	52						25				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00192-00001				0.37	0.45	53	52										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00300-00001				0.33	0.45	53	52										
11/16"	NaturalSun Low-E IG	PEL-N-192-00104-00001	3	5	argon	0.29	0.50	60	56						30				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00216-00001				0.32	0.45	53	56										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00320-00001				0.29	0.45	53	56						27				
11/16"	SunDefense™ Low-E IG	PEL-N-192-00081-00001	3	5	air	0.32	0.22	49	53										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00193-00001				0.36	0.20	43	53										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00301-00001				0.32	0.20	43	53										
11/16"	SunDefense Low-E IG	PEL-N-192-00105-00001	3	5	argon	0.28	0.21	49	57										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00217-00001				0.31	0.19	43	57										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00321-00001				0.28	0.19	43	57										

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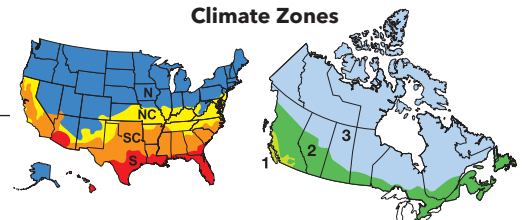
1" Insulating Glass with 5mm Glass



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.				Canada ₂				
										Zone				ER	Zone			
										N	NC	SC	S	1 2 3				
1"	Advanced Low-E IG	PEL-N-192-00164-00001	5	5	air	0.32	0.28	52	55						13			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00052-00001				0.32	0.25	46	55						12			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00276-00001				0.32	0.25	46	55						12			
1"	Advanced Low-E IG	PEL-N-192-00132-00001	5	5	argon	0.28	0.28	52	58						18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00016-00001				0.28	0.25	46	58						17			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00244-00001				0.28	0.25	46	58						17			
1"	NaturalSun Low-E IG	PEL-N-192-00166-00001	5	5	air	0.32	0.50	59	55						26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00054-00001				0.32	0.45	53	55						23			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00278-00001				0.32	0.45	53	55						23			
1"	NaturalSun Low-E IG	PEL-N-192-00134-00001	5	5	argon	0.29	0.50	59	58						30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00018-00001				0.29	0.45	53	58						27			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00246-00001				0.29	0.45	53	58						27			
1"	SunDefense™ Low-E IG	PEL-N-192-00165-00001	5	5	air	0.31	0.21	48	55						11			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00053-00001				0.31	0.19	43	55						9			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00277-00001				0.31	0.19	43	55						9			
1"	SunDefense Low-E IG	PEL-N-192-00133-00001	5	5	argon	0.28	0.21	48	59						14			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00017-00001				0.28	0.19	43	59						13			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00245-00001				0.28	0.19	43	59						13			
VENT – WITH FOAM INSERTS																		
1"	Advanced Low-E IG	PEL-N-192-00084-00001	5	5	air	0.31	0.28	52	55						15			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00196-00001				0.31	0.25	46	55						13			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00304-00001				0.31	0.25	46	55						13			
1"	Advanced Low-E IG	PEL-N-192-00108-00001	5	5	argon	0.27	0.28	52	58						20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00220-00001				0.27	0.25	46	58						18			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00324-00001				0.27	0.25	46	58						18			
1"	NaturalSun Low-E IG	PEL-N-192-00085-00001	5	5	air	0.32	0.50	59	55						26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00197-00001				0.32	0.45	53	55						23			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00305-00001				0.32	0.45	53	55						23			
1"	NaturalSun Low-E IG	PEL-N-192-00109-00001	5	5	argon	0.28	0.50	59	58						31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00221-00001				0.28	0.45	53	58						28			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00325-00001				0.28	0.45	53	58						28			
1"	SunDefense™ Low-E IG	PEL-N-192-00086-00001	5	5	air	0.30	0.21	48	56						12			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00198-00001				0.30	0.19	43	56						11			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00306-00001				0.30	0.19	43	56						11			
1"	SunDefense Low-E IG	PEL-N-192-00110-00001	5	5	argon	0.27	0.21	48	59						16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00222-00001				0.27	0.19	43	59						14			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00326-00001				0.27	0.19	43	59						14			

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. Based on unit size, some products will use 2.5mm glass that may have improved glazing performance from what is shown. See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.





SLIDING WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

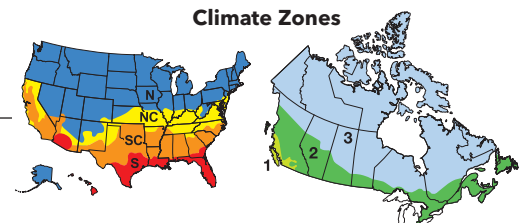
Triple-Pane Insulating Glass



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.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂			
											Zone				ER	Zone		
VENT											N	NC	SC	S	1 2 3			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-192-00023-00001	3	3	3	air	0.26	0.46	56	62					31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00139-00001					0.27	0.41	50	62					27			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-192-00059-00001	3	3	3	argon	0.24	0.46	56	65					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00171-00001					0.25	0.42	50	65					30			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-192-00024-00001	3	3	3	air	0.22	0.24	42	67					24			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00140-00001					0.22	0.22	37	67					22			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-192-00060-00001	3	3	3	argon	0.19	0.24	42	70					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00172-00001					0.19	0.22	37	70					26			
VENT – WITH FOAM INSERTS											N	NC	SC	S	1 2 3			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-192-00091-00001	3	3	3	air	0.21	0.24	42	68					25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00203-00001					0.21	0.22	37	68					24			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-192-00115-00001	3	3	3	argon	0.18	0.24	42	71					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00227-00001					0.18	0.22	37	71					27			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-192-00092-00001	3	3	3	air	0.25	0.46	56	62					33			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00204-00001					0.26	0.41	50	62					28			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-192-00116-00001	3	3	3	argon	0.23	0.46	56	65					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00228-00001					0.24	0.42	50	65					31			

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

GLAZING PERFORMANCE - TOTAL UNIT

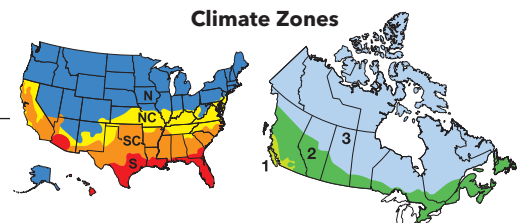
11/16" Insulating Glass – Tinted Glazing



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.				Canada ₂					
										Zone				ER	Zone				
										N	NC	SC	S			1	2	3	
11/16"	Bronze Advanced Low-E IG	PEL-N-192-00010-00001	3	3	air	0.31	0.28	39	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00126-00001				0.33	0.25	35	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00238-00001				0.31	0.25	35	55										
11/16"	Bronze Advanced Low-E IG	PEL-N-192-00046-00001	3	3	argon	0.28	0.28	39	59							18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00158-00001				0.29	0.25	35	59										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00270-00001				0.28	0.25	35	59							17			
11/16"	Gray Low-E IG	PEL-N-192-00009-00001	3	3	air	0.32	0.20	30	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00125-00001				0.33	0.18	27	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00237-00001				0.32	0.18	27	55										
11/16"	Gray Low-E IG	PEL-N-192-00045-00001	3	3	argon	0.28	0.20	30	58										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00157-00001				0.30	0.18	27	58										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00269-00001				0.28	0.18	27	58										
TINTED GLAZING – WITH FOAM INSERTS																			
11/16"	Bronze Advanced Low-E IG	PEL-N-192-00078-00001	3	3	air	0.31	0.28	39	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00190-00001				0.31	0.25	35	62										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00298-00001				0.31	0.25	35	55										
11/16"	Bronze Advanced Low-E IG	PEL-N-192-00102-00001	3	3	argon	0.27	0.28	39	59							20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00214-00001				0.29	0.25	35	59										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00318-00001				0.27	0.25	35	59							18			
11/16"	Gray Low-E IG	PEL-N-192-00077-00001	3	3	air	0.31	0.20	30	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00189-00001				0.33	0.18	27	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00297-00001				0.31	0.18	27	55										
11/16"	Gray Low-E IG	PEL-N-192-00101-00001	3	3	argon	0.28	0.20	30	58										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00213-00001				0.29	0.18	27	58										
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00317-00001				0.28	0.18	27	58										

R-Value = 1/U-Factor
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SLIDING WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

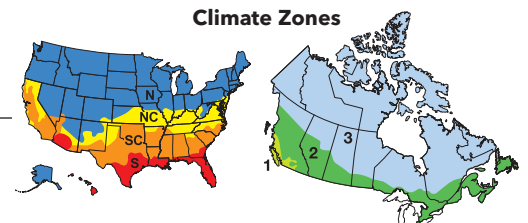
1" Insulating Glass – Tinted Glazing



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.				Canada ₂				
										Zone				ER	Zone			
										N	NC	SC	S		1	2	3	
1"	Bronze Advanced Low-E IG	PEL-N-192-00020-00001	5	5	air	0.32	0.25	34	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00136-00001				0.32	0.23	30	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00248-00001				0.32	0.23	30	55									
1"	Bronze Advanced Low-E IG	PEL-N-192-00056-00001	5	5	argon	0.28	0.25	34	58						17			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00168-00001				0.28	0.22	30	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00280-00001				0.28	0.22	30	58									
1"	Gray Low-E IG	PEL-N-192-00019-00001	5	5	air	0.32	0.19	30	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00135-00001				0.32	0.17	26	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00247-00001				0.32	0.17	26	55									
1"	Gray Low-E IG	PEL-N-192-00055-00001	5	5	argon	0.29	0.19	30	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00167-00001				0.29	0.17	26	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00279-00001				0.29	0.17	26	58									
TINTED GLAZING – WITH FOAM INSERTS																		
1"	Bronze Advanced Low-E IG	PEL-N-192-00088-00001	5	5	air	0.31	0.25	34	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00200-00001				0.31	0.23	30	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00308-00001				0.31	0.23	30	55									
1"	Bronze Advanced Low-E IG	PEL-N-192-00112-00001	5	5	argon	0.27	0.25	34	58						18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00224-00001				0.27	0.22	30	58						16			
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00328-00001				0.27	0.22	30	58						16			
1"	Gray Low-E IG	PEL-N-192-00087-00001	5	5	air	0.31	0.19	30	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00199-00001				0.31	0.17	26	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00307-00001				0.31	0.17	26	55									
1"	Gray Low-E IG	PEL-N-192-00111-00001	5	5	argon	0.28	0.19	30	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-192-00223-00001				0.28	0.17	26	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-192-00327-00001				0.28	0.17	26	58									

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
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SLIDING WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement

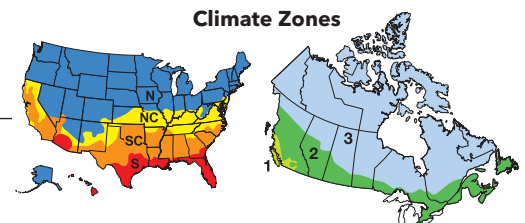
11/16" Insulating Glass with 3mm Glass



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.				Canada ₂					
										Zone				ER	Zone				
										N	NC	SC	S				1	2	3
VENT																			
11/16"	Advanced Low-E IG	PEL-N-201-00006-00001	3	3	air	0.31	0.29	53	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00102-00001				0.33	0.26	48	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00198-00001				0.31	0.26	48	55										
11/16"	Advanced Low-E IG	PEL-N-201-00030-00001	3	3	argon	0.28	0.28	53	59						18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00126-00001				0.29	0.26	48	58										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00218-00001				0.28	0.26	48	59						17				
11/16"	NaturalSun Low-E IG	PEL-N-201-00007-00001	3	3	air	0.32	0.52	60	55						27				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00103-00001				0.34	0.47	54	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00199-00001				0.32	0.47	54	55										
11/16"	NaturalSun Low-E IG	PEL-N-201-00031-00001	3	3	argon	0.29	0.52	6	58						31				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00127-00001				0.30	0.47	54	58						27				
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00219-00001				0.29	0.47	54	58						28				
11/16"	SunDefense™ Low-E IG	PEL-N-201-00008-00001	3	3	air	0.31	0.22	49	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00104-00001				0.33	0.19	44	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00200-00001				0.31	0.19	44	55										
11/16"	SunDefense Low-E IG	PEL-N-201-00032-00001	3	3	argon	0.27	0.21	49	59						16				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00128-00001				0.29	0.19	44	59										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00220-00001				0.27	0.19	44	59										
VENT – WITH FOAM INSERTS																			
11/16"	Advanced Low-E IG	PEL-N-201-00054-00001	3	3	air	0.31	0.29	53	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00150-00001				0.31	0.26	48	62										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00238-00001				0.31	0.26	48	55										
11/16"	Advanced Low-E IG	PEL-N-201-00078-00001	3	3	argon	0.27	0.28	53	59						20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00174-00001				0.29	0.26	48	59										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00258-00001				0.27	0.26	48	59						18				
11/16"	NaturalSun Low-E IG	PEL-N-201-00055-00001	3	3	air	0.31	0.52	60	55						29				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00151-00001				0.33	0.47	54	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00239-00001				0.31	0.47	54	55						26				
11/16"	NaturalSun Low-E IG	PEL-N-201-00079-00001	3	3	argon	0.28	0.52	6	58						32				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00175-00001				0.29	0.47	54	58						28				
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00259-00001				0.28	0.47	54	58						29				
11/16"	SunDefense™ Low-E IG	PEL-N-201-00056-00001	3	3	air	0.30	0.22	49	56										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00152-00001				0.32	0.19	44	56										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00240-00001				0.30	0.19	44	56										
11/16"	SunDefense Low-E IG	PEL-N-201-00080-00001	3	3	argon	0.27	0.21	49	59						16				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00176-00001				0.28	0.19	44	59										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00260-00001				0.27	0.19	44	59										

R-Value = 1/U-Factor
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SLIDING WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement

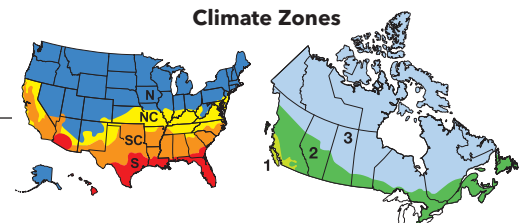
11/16" Insulating Glass with 3mm / 5mm Glass



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.			Canada ₂					
										Zone	ER	Zone	1	2	3			
VENT										N	NC	SC	S					
11/16"	Advanced Low-E IG	PEL-N-201-00011-00001	3	5	air	0.33	0.28	53	52									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00107-00001				0.37	0.26	47	52									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00203-00001				0.33	0.26	47	52									
11/16"	Advanced Low-E IG	PEL-N-201-00035-00001	3	5	argon	0.29	0.28	53	56									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00131-00001				0.32	0.25	47	56									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00223-00001				0.29	0.25	47	56									
11/16"	NaturalSun Low-E IG	PEL-N-201-00012-00001	3	5	air	0.34	0.50	60	52									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00108-00001				0.37	0.45	53	52									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00204-00001				0.34	0.45	53	52									
11/16"	NaturalSun Low-E IG	PEL-N-201-00036-00001	3	5	argon	0.30	0.50	60	55						29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00132-00001				0.33	0.45	53	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00224-00001				0.30	0.45	53	55						26			
11/16"	SunDefense™ Low-E IG	PEL-N-201-00013-00001	3	5	air	0.33	0.22	49	53									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00109-00001				0.36	0.20	43	53									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00205-00001				0.33	0.20	43	53									
11/16"	SunDefense Low-E IG	PEL-N-201-00037-00001	3	5	argon	0.29	0.21	49	56									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00133-00001				0.32	0.19	43	56									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00225-00001				0.29	0.19	43	56									
VENT - WITH FOAM INSERTS																		
11/16"	Advanced Low-E IG	PEL-N-201-00059-00001	3	5	air	0.33	0.28	53	53									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00155-00001				0.36	0.26	47	53									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00243-00001				0.33	0.26	47	53									
11/16"	Advanced Low-E IG	PEL-N-201-00083-00001	3	5	argon	0.28	0.28	53	56						18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00179-00001				0.32	0.25	47	56									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00263-00001				0.28	0.25	47	56						17			
11/16"	NaturalSun Low-E IG	PEL-N-201-00060-00001	3	5	air	0.33	0.50	60	52						25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00156-00001				0.37	0.45	53	52									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00244-00001				0.33	0.45	53	52									
11/16"	NaturalSun Low-E IG	PEL-N-201-00084-00001	3	5	argon	0.29	0.50	60	55						30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00180-00001				0.32	0.45	53	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00264-00001				0.29	0.45	53	55						27			
11/16"	SunDefense™ Low-E IG	PEL-N-201-00061-00001	3	5	air	0.32	0.22	49	53									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00157-00001				0.36	0.20	43	53									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00245-00001				0.32	0.20	43	53									
11/16"	SunDefense Low-E IG	PEL-N-201-00085-00001	3	5	argon	0.28	0.21	49	56									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00181-00001				0.31	0.19	43	56									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00265-00001				0.28	0.19	43	56									

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
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 ER = Canadian Energy Rating

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SLIDING WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement

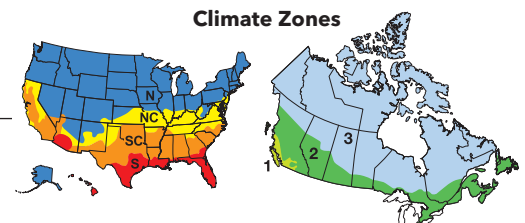
1" Insulating Glass with 5mm Glass



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.				Canada ₂				
										Zone				ER	Zone			
VENT											N	NC	SC	S	1 2 3			
1"	Advanced Low-E IG	PEL-N-201-00016-00001	5	5	air	0.32	0.28	52	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00112-00001				0.32	0.25	47	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00208-00001				0.32	0.25	47	55									
1"	Advanced Low-E IG	PEL-N-201-00040-00001	5	5	argon	0.28	0.28	52	58						18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00136-00001				0.28	0.25	47	58						17			
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00228-00001				0.28	0.25	47	58						17			
1"	NaturalSun Low-E IG	PEL-N-201-00017-00001	5	5	air	0.32	0.50	59	55						26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00113-00001				0.32	0.45	53	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00209-00001				0.32	0.45	53	55									
1"	NaturalSun Low-E IG	PEL-N-201-00041-00001	5	5	argon	0.29	0.50	59	58						30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00137-00001				0.29	0.45	53	58						27			
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00229-00001				0.29	0.45	53	58						27			
1"	SunDefense™ Low-E IG	PEL-N-201-00018-00001	5	5	air	0.31	0.21	48	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00114-00001				0.31	0.19	43	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00210-00001				0.31	0.19	43	55									
1"	SunDefense Low-E IG	PEL-N-201-00042-00001	5	5	argon	0.28	0.21	48	59									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00138-00001				0.28	0.19	43	59									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00230-00001				0.28	0.19	43	59									
VENT – WITH FOAM INSERTS																		
1"	Advanced Low-E IG	PEL-N-201-00064-00001	5	5	air	0.31	0.28	52	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00160-00001				0.31	0.25	47	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00248-00001				0.31	0.25	47	55									
1"	Advanced Low-E IG	PEL-N-201-00088-00001	5	5	argon	0.28	0.28	52	58						18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00184-00001				0.28	0.25	47	58						17			
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00268-00001				0.28	0.25	47	58						17			
1"	NaturalSun Low-E IG	PEL-N-201-00065-00001	5	5	air	0.32	0.50	59	55						26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00161-00001				0.32	0.45	53	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00249-00001				0.32	0.45	53	55									
1"	NaturalSun Low-E IG	PEL-N-201-00089-00001	5	5	argon	0.28	0.50	59	58						31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00185-00001				0.28	0.45	53	58						28			
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00269-00001				0.28	0.45	53	58						28			
1"	SunDefense™ Low-E IG	PEL-N-201-00066-00001	5	5	air	0.31	0.21	48	56									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00162-00001				0.31	0.19	43	56									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00250-00001				0.31	0.19	43	56									
1"	SunDefense Low-E IG	PEL-N-201-00090-00001	5	5	argon	0.27	0.21	48	59						16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00186-00001				0.27	0.19	43	59									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00270-00001				0.27	0.19	43	59									

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

GLAZING PERFORMANCE - TOTAL UNIT

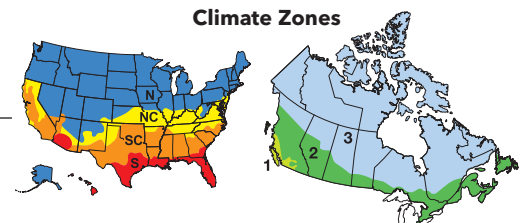
3-1/4" Block Pocket Replacement
Triple-Pane Insulating Glass



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.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂			
											Zone				ER	Zone		
VENT											N	NC	SC	S	1 2 3			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-201-00023-00001	3	3	3	air	0.21	0.24	42	67					25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00119-00001					0.22	0.22	37	67					22			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-201-00047-00001	3	3	3	argon	0.18	0.24	42	69					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00143-00001					0.19	0.22	37	69					26			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-201-00024-00001	3	3	3	air	0.26	0.46	56	62					31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00120-00001					0.27	0.42	50	62					28			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-201-00048-00001	3	3	3	argon	0.23	0.46	56	64					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00144-00001					0.24	0.42	50	64					31			
VENT – WITH FOAM INSERTS																		
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-201-00071-00001	3	3	3	air	0.20	0.24	42	67					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00167-00001					0.21	0.22	37	67					24			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-201-00095-00001	3	3	3	argon	0.18	0.24	42	69					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00191-00001					0.18	0.22	37	69					27			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-201-00072-00001	3	3	3	air	0.25	0.46	56	62					33			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00168-00001					0.26	0.42	50	62					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-201-00096-00001	3	3	3	argon	0.23	0.46	56	65					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00192-00001					0.23	0.42	50	65					33			

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SLIDING WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement

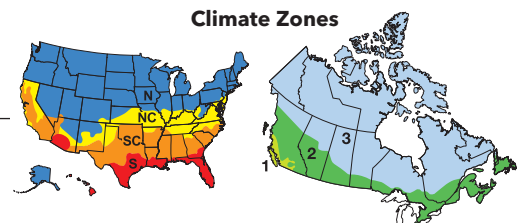
11/16" Insulating Glass – Tinted Glazing



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.				Canada ₂					
										Zone				ER	Zone				
										N	NC	SC	S				1	2	3
TINTED GLAZING																			
11/16"	Bronze Advanced Low-E IG	PEL-N-201-00010-00001	3	3	air	0.31	0.28	39	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00106-00001				0.33	0.25	35	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00202-00001				0.31	0.25	35	55										
11/16"	Bronze Advanced Low-E IG	PEL-N-201-00034-00001	3	3	argon	0.28	0.28	39	59						18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00130-00001				0.29	0.25	35	58										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00222-00001				0.28	0.25	35	59						17				
11/16"	Gray Low-E IG	PEL-N-201-00009-00001	3	3	air	0.32	0.20	30	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00105-00001				0.33	0.18	27	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00201-00001				0.32	0.18	27	55										
11/16"	Gray Low-E IG	PEL-N-201-00033-00001	3	3	argon	0.28	0.20	30	58										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00129-00001				0.30	0.18	27	58										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00221-00001				0.28	0.18	27	58										
TINTED GLAZING – WITH FOAM INSERTS																			
11/16"	Bronze Advanced Low-E IG	PEL-N-201-00058-00001	3	3	air	0.31	0.28	39	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00154-00001				0.31	0.25	35	62										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00242-00001				0.31	0.25	35	55										
11/16"	Bronze Advanced Low-E IG	PEL-N-201-00082-00001	3	3	argon	0.27	0.28	39	59						20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00178-00001				0.29	0.25	35	59										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00262-00001				0.27	0.25	35	59						18				
11/16"	Gray Low-E IG	PEL-N-201-00057-00001	3	3	air	0.31	0.20	30	55										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00153-00001				0.33	0.18	27	55										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00241-00001				0.31	0.18	27	55										
11/16"	Gray Low-E IG	PEL-N-201-00081-00001	3	3	argon	0.28	0.20	30	58										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00177-00001				0.29	0.18	27	58										
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00261-00001				0.28	0.18	27	58										

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SLIDING WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement

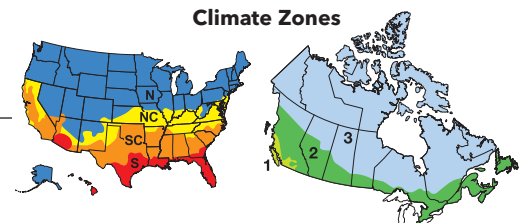
1" Insulating Glass – Tinted Glazing



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.				Canada ₂				
										Zone				ER	Zone			
										N	NC	SC	S					
1"	Bronze Advanced Low-E IG	PEL-N-201-00020-00001	5	5	air	0.32	0.25	34	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00116-00001				0.32	0.23	30	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00212-00001				0.32	0.23	30	55									
1"	Bronze Advanced Low-E IG	PEL-N-201-00044-00001	5	5	argon	0.28	0.25	34	58						17			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00140-00001				0.28	0.22	30	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00232-00001				0.28	0.22	30	58									
1"	Gray Low-E IG	PEL-N-201-00019-00001	5	5	air	0.32	0.19	30	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00115-00001				0.32	0.18	26	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00211-00001				0.32	0.18	26	55									
1"	Gray Low-E IG	PEL-N-201-00043-00001	5	5	argon	0.29	0.19	30	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00139-00001				0.29	0.17	26	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00231-00001				0.29	0.17	26	58									
TINTED GLAZING – WITH FOAM INSERTS																		
1"	Bronze Advanced Low-E IG	PEL-N-201-00068-00001	5	5	air	0.31	0.25	34	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00164-00001				0.31	0.23	30	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00252-00001				0.31	0.23	30	55									
1"	Bronze Advanced Low-E IG	PEL-N-201-00092-00001	5	5	argon	0.28	0.25	34	58						17			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00188-00001				0.28	0.22	30	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00272-00001				0.28	0.22	30	58									
1"	Gray Low-E IG	PEL-N-201-00067-00001	5	5	air	0.31	0.19	30	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00163-00001				0.31	0.18	26	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00251-00001				0.31	0.18	26	55									
1"	Gray Low-E IG	PEL-N-201-00091-00001	5	5	argon	0.28	0.19	30	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-201-00187-00001				0.28	0.17	26	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-201-00271-00001				0.28	0.17	26	58									

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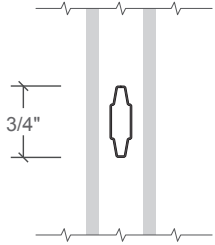
SLIDING WINDOW

GRILLE TYPES

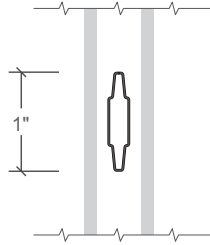


Grille Profiles

GRILLES-BETWEEN-THE-GLASS

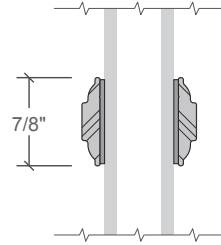


3/4" Contour

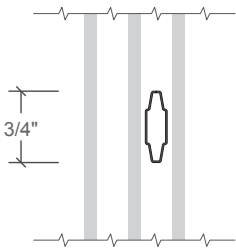


1" Contour

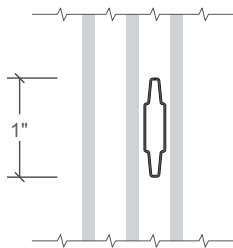
SIMULATED-DIVIDED-LIGHT GRILLES WITHOUT SPACER



7/8" Contour



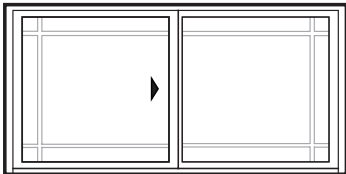
3/4" Contour



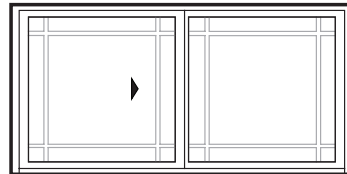
1" Contour

Grille Patterns

PRAIRIE LITE PATTERNS



6-Lite Prairie

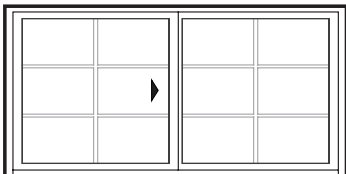


9-Lite Prairie

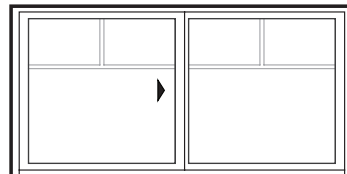
Prairie

- Approximately 4" from edge of sash to center of bar.
- Minimum actual glass is 13".

OTHER AVAILABLE PATTERNS



Traditional



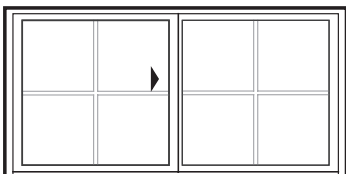
Top Row

Traditional

- Specify number of lites.
- Grille Bars (Grilles) must be equally divided on visible glass.
- Minimum lite size = 6".

Top Row

- Top Row dimension must be $\leq 1/2$ actual glass.



Custom - Equally Divided

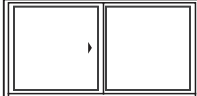
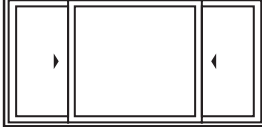


SLIDING WINDOW

SPECIAL SIZE FRAME DIMENSIONS

Miscellaneous Formulas



		MINIMUM	MAXIMUM
XO OR OX UNITS		21-1/2"W x 11-1/2"H (546 x 292)	76"W x 72"H (1 828 x 18 288)
		47-1/2"W x 11-1/2"H (1 207 x 292)	114"W x 72"H (2 896 x 18 288)

General Notes:

XO/OX Units:

Rough Opening = Frame Dimension + 1/2"
 Maximum Frame Height ≤ Frame Width x 1.75
 Bronze glass is limited to 22 Ft² (glass size).
 If glass width/height ratio is > 5:1, then unit must be tempered.

XOX Units:

Rough Opening = Frame Dimension + 1/2"
 Sash split options are 1/4 width and 1/3 width of frame
 1/4 Vent XOX Units: Max frame height ≤ frame width X 0.875
 1/3 Vent XOX Units: Max frame height ≤ frame width X 1.167
 Bronze glass is limited to 22 Ft² (glass size).
 If glass width/height ratio is > 5:1, then unit must be tempered.

Miscellaneous Formulas

	EQUAL VENT (XO AND OX)	QUARTER VENT (XOX)	THIRD VENT (XOX)
ACTUAL GLASS	$AGW = (FW - 4.876) / 2$	$AGW = (FW - 10.25) / 4$	$AGW = (FW - 7.563) / 3$
		$AGH = FH - 5.312$	
VISIBLE GLASS		$VGW = AGW - 1.112$	
		$VGH = AGH - 1.112$	
CLEAR OPENING ₁	$COW = (FW - 9.874) / 2$	$COW = (FW - 9.638) / 4$	$COW = (FW - 15.375) / 3$
		$COH = FH - 4.063$	

KEY:

AGW = Actual Glass Width
 AGH = Actual Glass Height
 FW = Frame Width
 FH = Frame Height
 VGW = Visible Glass Width
 VGH = Visible Glass Height

(1) Calculated based on standard hardware.

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



SLIDING WINDOW

SIZE TABLES
Vent-Fixed Units (XO)



Vent-Fixed Units (XO)

	(610) (597)	(762) (749)	(914) (902)	(1 219) (1 207)	(1 524) (1 511)	(1 829) (1 816)
Opening	2' 0"	2' 6"	3' 0"	4' 0"	5' 0"	6' 0"
Frame	23 1/2"	29 1/2"	35 1/2"	47 1/2"	59 1/2"	71 1/2"
1' 6" (457) (445)	 2-0/1-6	 2-6/1-6	 3-0/1-6	 4-0/1-6	 5-0/1-6	 6-0/1-6
2' 0" (610) (597)	 2-0/2-0	 2-6/2-0	 3-0/2-0	 4-0/2-0	 5-0/2-0	 6-0/2-0
2' 6" (762) (749)	 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
3' 0" (914) (902)	 2-0/3-0	 2-6/3-0	 3-0/3-0	 4-0/3-0	 5-0/3-0 E ₁	 6-0/3-0 E
3' 6" (1 067) (1 054)	 2-0/3-6	 2-6/3-6	 3-0/3-6	 4-0/3-6	 5-0/3-6 E	 6-0/3-6 E
4' 0" (1 219) (1 207)		 2-6/4-0	 3-0/4-0	 4-0/4-0	 5-0/4-0 E	 6-0/4-0 E
4' 6" (1 372) (1 359)			 3-0/4-6	 4-0/4-6	 5-0/4-6 E	 6-0/4-6 E
5' 0" (1 524) (1 511)			 3-0/5-0	 4-0/5-0	 5-0/5-0 E	 6-0/5-0 E
6' 0" (1 829) (1 816)				 4-0/6-0	 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.

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.

XO units shown also available as OX



SLIDING WINDOW

SIZE TABLES

Vent-Fixed-Vent Units (XOX)

Third Vent Units



Vent-Fixed-Vent Units (XOX)

	(1 829) (1 816)	(1 829) (2 121)	(2 438) (2 426)	(2 743) (2 731)
Opening	6' 0"	7' 0"	8' 0"	9' 0"
Frame	71 1/2"	83 1/2"	95 1/2"	107 1/2"
1' 6"	6-0/1-6	7-0/1-6	8-0/1-6	9-0/1-6
2' 0"	6-0/2-0	7-0/2-0	8-0/2-0	9-0/2-0
2' 6"	6-0/2-6	7-0/2-6	8-0/2-6	9-0/2-6 E1
3' 0"	6-0/3-0	7-0/3-0	8-0/3-0 E	9-0/3-0 E
3' 6"	6-0/3-6	7-0/3-6 E	8-0/3-6 E	9-0/3-6 E
4' 0"	6-0/4-0	7-0/4-0 E	8-0/4-0 E	9-0/4-0 E
4' 6"	6-0/4-6	7-0/4-6 E	8-0/4-6 E	9-0/4-6 E
5' 0"	6-0/5-0	7-0/5-0 E	8-0/5-0 E	9-0/5-0 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.

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.



SLIDING WINDOW

SIZE TABLES

Vent-Fixed-Vent Units (XOX)

Quarter Vent Units



Vent-Fixed-Vent Units (XOX)

	(1 829) (1 816)	(1 829) (2 121)	(2 438) (2 426)	(2 743) (2 731)
Opening	6' 0"	7' 0"	8' 0"	9' 0"
Frame	71½"	83½"	95½"	107 ½"
(457) (445)	6-0/1-6	7-0/1-6	8-0/1-6	9-0/1-6
(610) (597)	6-0/2-0	7-0/2-0	8-0/2-0	9-0/2-0
(762) (749)	6-0/2-6	7-0/2-6	8-0/2-6	9-0/2-6
(914) (902)	6-0/3-0	7-0/3-0	8-0/3-0	9-0/3-0 E ₁
(1 067) (1 054)	6-0/3-6	7-0/3-6	8-0/3-6 E ₁	9-0/3-6 E
(1 219) (1 207)	6-0/4-0	7-0/4-0	8-0/4-0 E	9-0/4-0 E
(1 372) (1 359)	6-0/4-6	7-0/4-6	8-0/4-6 E	9-0/4-6 E
(1 524) (1 511)	6-0/5-0	7-0/5-0	8-0/5-0 E	9-0/5-0 E
	1' 6"	2' 0"	2' 6"	3' 0"
	17½"	23½"	29½"	35½"
	3' 6"	4' 0"	4' 6"	5' 0"
	41½"	47½"	53½"	59½"

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.



SLIDING WINDOW

SIZE TABLES

5/8" Integral Flange
Vent-Fixed Units (XO)



Call Size	H3	2	3	D2
Masonry	27 1/4"	37 3/4"	53 7/8"	74 3/4"
Buck	25 3/4"	36 1/4"	52 3/8"	73 1/4"
Frame	25 1/2"	36"	52 1/8"	73"
Tip to Tip	26 1/2"	37"	53 1/8"	74"

2	26"				
	25 1/4"	FL-H32	FL-22	FL-32	FL-D22
3	38 3/8"				
	37 5/8"	FL-H33	FL-23	FL-33	FL-D23 E
4	50 5/8"				
	49 7/8"	FL-H34	FL-24	FL-34 E	FL-D24 E
	49 5/8"				
	50 5/8"				

Not to scale.



SLIDING WINDOW

SIZE TABLES

5/8" Integral Flange

Third Vent and Quarter Vent Units (XOX)



Call Size	3	D2	D3
Masonry	53 7/8"	74 3/4"	107 1/8"
Buck	52 3/8"	73 1/4"	105 5/8"
Frame	52 1/8"	73"	105 3/8"
Tip to Tip	53 1/8"	74"	106 3/8"

2	26"	25 1/4"	25"	26"			
					FL-32	FL-D22	FL-D32
3	38 3/8"	37 5/8"	37 3/8"	38 3/8"			
					FL-33	FL-D23	FL-D33
4	50 5/8"	49 7/8"	49 5/8"	50 5/8"			
					FL-34	FL-D24	FL-D34

Call Size	3	D2	D3
Masonry	53 7/8"	74 3/4"	107 1/8"
Buck	52 3/8"	73 1/4"	105 5/8"
Frame	52 1/8"	73"	105 3/8"
Tip to Tip	53 1/8"	74"	106 3/8"

2	26"	25 1/4"	25"	26"			
					FL-32	FL-D22	FL-D32
3	38 3/8"	37 5/8"	37 3/8"	38 3/8"			
					FL-33	FL-D23	FL-D33
4	50 5/8"	49 7/8"	49 5/8"	50 5/8"			
					FL-34	FL-D24	FL-D34

Not to scale.



SLIDING WINDOW

DESIGN DATA

Equal Sash (OX, XO) Units



1-WIDE OX, XO UNITS – EQUAL SASH

Unit	Egress	Frame		Clear Opening			Visible Glass Ft²	Standard Glass Thickness (mm)		Standard Performance Class & Grade, ¹
		Width (Inches)	Height (Inches)	Width (Inches)	Height (Inches)	Ft²		Annealed	Tempered	
2-0/1-6		23-1/2	17-1/2	6-13/16	13-7/16	0.6	1.3	2.5	3	LC40
2-0/2-0		23-1/2	23-1/2	6-13/16	19-7/16	0.9	1.9	2.5	3	LC40
2-0/2-6		23-1/2	29-1/2	6-13/16	25-7/16	1.2	2.6	2.5	3	LC40
2-0/3-0		23-1/2	35-1/2	6-13/16	31-7/16	1.4	3.3	2.5	3	LC40
2-0/3-6		23-1/2	41-1/2	6-13/16	37-7/16	1.7	4.0	2.5	3	LC40
2-6/1-6		29-1/2	17-1/2	9-13/16	13-7/16	0.9	1.7	2.5	3	LC40
2-6/2-0		29-1/2	23-1/2	9-13/16	19-7/16	1.3	2.7	2.5	3	LC40
2-6/2-6		29-1/2	29-1/2	9-13/16	25-7/16	1.7	3.6	2.5	3	LC40
2-6/3-0		29-1/2	35-1/2	9-13/16	31-7/16	2.1	4.5	2.5	3	LC40
2-6/3-6		29-1/2	41-1/2	9-13/16	37-7/16	2.5	5.4	2.5	3	LC40
2-6/4-0		29-1/2	47-1/2	9-13/16	43-7/16	2.9	6.4	2.5	3	LC40
3-0/1-6		35-1/2	17-1/2	12-13/16	13-7/16	1.1	2.2	2.5	3	LC40
3-0/2-0		35-1/2	23-1/2	12-13/16	19-7/16	1.7	3.4	2.5	3	LC40
3-0/2-6		35-1/2	29-1/2	12-13/16	25-7/16	2.2	4.5	2.5	3	LC40
3-0/3-0		35-1/2	35-1/2	12-13/16	31-7/16	2.7	5.7	2.5	3	LC40
3-0/3-6		35-1/2	41-1/2	12-13/16	37-7/16	3.3	6.9	2.5	3	LC40
3-0/4-0		35-1/2	47-1/2	12-13/16	43-7/16	3.8	8.1	2.5	3	LC40
3-0/4-6		35-1/2	53-1/2	12-13/16	49-7/16	4.3	9.3	2.5	3	LC40
3-0/5-0		35-1/2	59-1/2	12-13/16	55-7/16	4.9	10.5	2.5	3	LC40
4-0/1-6		47-1/2	17-1/2	18-13/16	13-7/16	1.7	3.1	2.5	3	LC40
4-0/2-0		47-1/2	23-1/2	18-13/16	19-7/16	2.5	4.8	2.5	3	LC40
4-0/2-6		47-1/2	29-1/2	18-13/16	25-7/16	3.3	6.5	2.5	3	LC40
4-0/3-0		47-1/2	35-1/2	18-13/16	31-7/16	4.1	8.1	2.5	3	LC40
4-0/3-6		47-1/2	41-1/2	18-13/16	37-7/16	4.8	9.8	2.5	3	LC40
4-0/4-0		47-1/2	47-1/2	18-13/16	43-7/16	5.6	11.5	2.5	3	LC40
4-0/4-6		47-1/2	53-1/2	18-13/16	49-7/16	6.4	13.2	2.5	3	LC40
4-0/5-0		47-1/2	59-1/2	18-13/16	55-7/16	7.2	14.9	3	3	LC40
4-0/6-0		47-1/2	71-1/2	18-13/16	67-7/16	8.8	18.2	2.5	3	LC40
5-0/1-6		59-1/2	17-1/2	24-13/16	13-7/16	2.3	4.0	2.5	3	LC40
5-0/2-0		59-1/2	23-1/2	24-13/16	19-7/16	3.3	6.2	2.5	3	LC40
5-0/2-6		59-1/2	29-1/2	24-13/16	25-7/16	4.3	8.4	2.5	3	LC40
5-0/3-0	E ₁	59-1/2	35-1/2	24-13/16	31-7/16	5.4	10.6	2.5	3	LC40
5-0/3-6	E	59-1/2	41-1/2	24-13/16	37-7/16	6.4	12.8	2.5	3	LC40
5-0/4-0	E	59-1/2	47-1/2	24-13/16	43-7/16	7.4	14.9	2.5	3	LC40
5-0/4-6	E	59-1/2	53-1/2	24-13/16	49-7/16	8.5	17.1	2.5	3	LC40
5-0/5-0	E	59-1/2	59-1/2	24-13/16	55-7/16	9.5	19.3	3	3	LC40
5-0/6-0	E	59-1/2	71-1/2	24-13/16	67-7/16	11.6	23.7	3	3	LC40
6-0/1-6		71-1/2	17-1/2	30-13/16	13-7/16	2.8	4.9	2.5	3	LC40
6-0/2-0		71-1/2	23-1/2	30-13/16	19-7/16	4.1	7.6	2.5	3	LC40
6-0/2-6	E ₁	71-1/2	29-1/2	30-13/16	25-7/16	5.4	10.3	2.5	3	LC40
6-0/3-0	E	71-1/2	35-1/2	30-13/16	31-7/16	6.7	13.0	2.5	3	LC40
6-0/3-6	E	71-1/2	41-1/2	30-13/16	37-7/16	8.0	15.7	2.5	3	LC40
6-0/4-0	E	71-1/2	47-1/2	30-13/16	43-7/16	9.2	18.4	2.5	3	LC40
6-0/4-6	E	71-1/2	53-1/2	30-13/16	49-7/16	10.5	21.0	3	3	LC40
6-0/5-0	E	71-1/2	59-1/2	30-13/16	55-7/16	11.8	23.7	3	3	LC40
6-0/6-0	E	71-1/2	71-1/2	30-13/16	67-7/16	14.4	29.1	3	3	LC40

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 by 0.0929.

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



SLIDING WINDOW

DESIGN DATA

Vent-Fixed-Vent (XOX)

Third Vent Units



XOX SLIDING WINDOW – THIRD VENT

Unit	Egress	Frame		Clear Opening			Visible Glass Ft ²	Standard Glass Thickness (mm)		Standard Performance Class & Grade ¹
		Width (Inches)	Height (Inches)	Width (Inches)	Height (Inches)	Ft ²		Annealed	Tempered	
6-0/1-6		71-1/2	17-1/2	18-11/16	13-7/16	1.7	4.7	2.5	3	LC30
6-0/2-0		71-1/2	23-1/2	18-11/16	19-7/16	2.5	7.2	2.5	3	LC30
6-0/2-6		71-1/2	29-1/2	18-11/16	25-7/16	3.3	9.8	2.5	3	LC30
6-0/3-0		71-1/2	35-1/2	18-11/16	31-7/16	4.0	12.3	2.5	3	LC30
6-0/3-6		71-1/2	41-1/2	18-11/16	37-7/16	4.8	14.9	2.5	3	LC30
6-0/4-0		71-1/2	47-1/2	18-11/16	43-7/16	5.6	17.4	2.5	3	LC30
6-0/4-6		71-1/2	53-1/2	18-11/16	49-7/16	6.4	20.0	2.5	3	LC25
6-0/5-0		71-1/2	59-1/2	18-11/16	55-7/16	7.1	22.5	2.5	3	LC25
7-0/1-6		83-1/2	17-1/2	22-11/16	13-7/16	2.1	5.6	2.5	3	LC30
7-0/2-0		83-1/2	23-1/2	22-11/16	19-7/16	3.0	8.7	2.5	3	LC30
7-0/2-6		83-1/2	29-1/2	22-11/16	25-7/16	4.0	11.7	2.5	3	LC30
7-0/3-0		83-1/2	35-1/2	22-11/16	31-7/16	4.9	14.8	2.5	3	LC30
7-0/3-6	E	83-1/2	41-1/2	22-11/16	37-7/16	5.9	17.8	2.5	3	LC30
7-0/4-0	E	83-1/2	47-1/2	22-11/16	43-7/16	6.8	20.9	2.5	3	LC30
7-0/4-6	E	83-1/2	53-1/2	22-11/16	49-7/16	7.7	23.9	2.5	3	LC25
7-0/5-0	E	83-1/2	59-1/2	22-11/16	55-7/16	8.7	27.0	3	3	LC25
8-0/1-6		95-1/2	17-1/2	26-11/16	13-7/16	2.4	6.5	2.5	3	LC30
8-0/2-0		95-1/2	23-1/2	26-11/16	19-7/16	3.6	10.1	2.5	3	LC30
8-0/2-6		95-1/2	29-1/2	26-11/16	25-7/16	4.7	13.6	2.5	3	LC30
8-0/3-0	E	95-1/2	35-1/2	26-11/16	31-7/16	5.8	17.2	2.5	3	LC30
8-0/3-6	E	95-1/2	41-1/2	26-11/16	37-7/16	6.9	20.7	2.5	3	LC30
8-0/4-0	E	95-1/2	47-1/2	26-11/16	43-7/16	8.0	24.3	2.5	3	LC30
8-0/4-6	E	95-1/2	53-1/2	26-11/16	49-7/16	9.1	27.8	2.5	3	LC25
8-0/5-0	E	95-1/2	59-1/2	26-11/16	55-7/16	10.2	31.4	3	3	LC25
9-0/1-6		107-1/2	17-1/2	30-11/16	13-7/16	2.8	7.5	2.5	3	LC30
9-0/2-0		107-1/2	23-1/2	30-11/16	19-7/16	4.1	11.5	2.5	3	LC30
9-0/2-6	E1	107-1/2	29-1/2	30-11/16	25-7/16	5.4	15.6	2.5	3	LC30
9-0/3-0	E	107-1/2	35-1/2	30-11/16	31-7/16	6.7	19.6	2.5	3	LC30
9-0/3-6	E	107-1/2	41-1/2	30-11/16	37-7/16	7.9	23.7	2.5	3	LC30
9-0/4-0	E	107-1/2	47-1/2	30-11/16	43-7/16	9.2	27.7	2.5	3	LC30
9-0/4-6	E	107-1/2	53-1/2	30-11/16	49-7/16	10.5	31.8	3	3	LC25
9-0/5-0	E	107-1/2	59-1/2	30-11/16	55-7/16	11.8	35.8	3	3	LC25

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 by 0.0929.

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



SLIDING WINDOW

DESIGN DATA

Vent-Fixed-Vent (XOX)

Quarter Vent Units



XOX SLIDING WINDOW – QUARTER VENT

Unit	Egress	Frame		Clear Opening			Visible Glass Ft ²	Standard Glass Thickness (mm)		Standard Performance Class & Grade ₁
		Width (Inches)	Height (Inches)	Width (Inches)	Height (Inches)	Ft ²		Annealed	Tempered	
6-0/1-6		71-1/2	17-1/2	15-7/16	13-7/16	1.4	4.7	2.5	3	LC30
6-0/2-0		71-1/2	23-1/2	15-7/16	19-7/16	2.0	7.2	2.5	3	LC30
6-0/2-6		71-1/2	29-1/2	15-7/16	25-7/16	2.7	9.8	2.5	3	LC30
6-0/3-0		71-1/2	35-1/2	15-7/16	31-7/16	3.3	12.3	2.5	3	LC30
6-0/3-6		71-1/2	41-1/2	15-7/16	37-7/16	4.0	14.9	2.5	3	LC30
6-0/4-0		71-1/2	47-1/2	15-7/16	43-7/16	4.6	17.4	2.5	3	LC30
6-0/4-6		71-1/2	53-1/2	15-7/16	49-7/16	5.3	20.0	3	3	LC25
6-0/5-0		71-1/2	59-1/2	15-7/16	55-7/16	5.9	22.5	3	3	LC25
7-0/1-6		83-1/2	17-1/2	18-7/16	13-7/16	1.7	5.6	2.5	3	LC30
7-0/2-0		83-1/2	23-1/2	18-7/16	19-7/16	2.4	8.7	2.5	3	LC30
7-0/2-6		83-1/2	29-1/2	18-7/16	25-7/16	3.2	11.7	2.5	3	LC30
7-0/3-0		83-1/2	35-1/2	18-7/16	31-7/16	4.0	14.8	2.5	3	LC30
7-0/3-6		83-1/2	41-1/2	18-7/16	37-7/16	4.7	17.8	2.5	3	LC30
7-0/4-0		83-1/2	47-1/2	18-7/16	43-7/16	5.5	20.9	3	3	LC30
7-0/4-6		83-1/2	53-1/2	18-7/16	49-7/16	6.3	23.9	3	3	LC25
7-0/5-0		83-1/2	59-1/2	18-7/16	55-7/16	7.1	27.0	3	3	LC25
8-0/1-6		95-1/2	17-1/2	21-7/16	13-7/16	2.0	6.5	2.5	3	LC30
8-0/2-0		95-1/2	23-1/2	21-7/16	19-7/16	2.8	10.1	2.5	3	LC30
8-0/2-6		95-1/2	29-1/2	21-7/16	25-7/16	3.7	13.6	2.5	3	LC30
8-0/3-0		95-1/2	35-1/2	21-7/16	31-7/16	4.6	17.2	2.5	3	LC30
8-0/3-6	E1	95-1/2	41-1/2	21-7/16	37-7/16	5.5	20.7	3	3	LC30
8-0/4-0	E	95-1/2	47-1/2	21-7/16	43-7/16	6.4	24.3	3	3	LC30
8-0/4-6	E	95-1/2	53-1/2	21-7/16	49-7/16	7.3	27.8	3	3	LC25
8-0/5-0	E	95-1/2	59-1/2	21-7/16	55-7/16	8.2	31.4	3	3	LC25
9-0/1-6		107-1/2	17-1/2	24-7/16	13-7/16	2.2	7.5	2.5	3	LC25
9-0/2-0		107-1/2	23-1/2	24-7/16	19-7/16	3.3	11.5	2.5	3	LC25
9-0/2-6		107-1/2	29-1/2	24-7/16	25-7/16	4.3	15.6	3	3	LC25
9-0/3-0	E1	107-1/2	35-1/2	24-7/16	31-7/16	5.3	19.6	3	3	LC25
9-0/3-6	E	107-1/2	41-1/2	24-7/16	37-7/16	6.3	23.7	3	3	LC25
9-0/4-0	E	107-1/2	47-1/2	24-7/16	43-7/16	7.3	27.7	3	3	LC25
9-0/4-6	E	107-1/2	53-1/2	24-7/16	49-7/16	8.3	31.8	3	5	LC25
9-0/5-0	E	107-1/2	59-1/2	24-7/16	55-7/16	9.4	35.8	3	5	LC25

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 by 0.0929.

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



SLIDING WINDOW

DESIGN DATA

5/8" Integral Flange



XO/OX VENT UNITS

Unit	Egress	Frame		Clear Opening			Visible Glass Ft ²	Frame Area Ft ²	Standard Performance Class & Grade, ₁
		Width (Inches)	Height (Inches)	Width (Inches)	Height (Inches)	Ft ²			
FL-H32		25-1/2	25	7-13/16	21	1.1	3.2	4.4	LC40
FL-H33		25-1/2	37-3/8	7-13/16	33-5/16	1.8	5.0	6.6	LC40
FL-H34		25-1/2	49-5/8	7-13/16	45-1/2	2.4	6.8	8.8	LC40
FL-22		36	25	13-1/16	21	1.8	4.7	6.3	LC40
FL-23		36	37-3/8	13-1/16	33-5/16	3.0	7.4	9.3	LC40
FL-24		36	49-5/8	13-1/16	45-1/2	4.1	10.2	12.4	LC40
FL-32		52-1/8	25	21-1/16	21	3.0	7.0	9.0	LC40
FL-33		52-1/8	37-3/8	21-1/16	33-5/16	4.8	11.2	13.5	LC40
FL-34	E	52-1/8	49-5/8	21-1/16	45-1/2	6.6	15.3	18.0	LC40
FL-D22		73	25	31-1/2	21	4.5	10.1	12.7	LC40
FL-D23	E	73	37-3/8	31-1/2	33-5/16	7.2	16.0	18.9	LC40
FL-D24	E	73	49-5/8	31-1/2	45-1/2	9.9	21.9	25.2	LC40

XOX 1/3 VENT UNITS

Unit	Egress	Frame		Clear Opening			Visible Glass Ft ²	Frame Area Ft ²	Standard Performance Class & Grade, ₁
		Width (Inches)	Height (Inches)	Width (Inches)	Height (Inches)	Ft ²			
FL-32		52-1/8	25	12-1/4	21	1.7	7.0	9.0	LC30
FL-33		52-1/8	37-3/8	12-1/4	33-5/16	2.8	11.2	13.5	LC30
FL-34		52-1/8	49-5/8	12-1/4	45-1/2	3.8	15.3	18.0	LC30
FL-D22		73	25	19-3/16	21	2.7	10.1	12.7	LC25
FL-D23		73	37-3/8	19-3/16	33-5/16	4.4	16.0	18.9	LC25
FL-D24		73	49-5/8	19-3/16	45-1/2	6.0	21.9	25.2	LC25
FL-D32		105-3/8	25	30	21	4.3	14.8	18.3	LC25
FL-D33	E	105-3/8	37-3/8	30	33-5/16	6.9	23.6	27.3	LC25
FL-D34	E	105-3/8	49-5/8	30	45-1/2	9.4	32.2	36.3	LC25

XOX 1/4 VENT UNITS

Unit	Egress	Frame		Clear Opening			Visible Glass Ft ²	Frame Area Ft ²	Standard Performance Class & Grade, ₁
		Width (Inches)	Height (Inches)	Width (Inches)	Height (Inches)	Ft ²			
FL-32		52-1/8	25	10-9/16	21	1.5	7.0	9.0	LC30
FL-33		52-1/8	37-3/8	10-9/16	33-5/16	2.4	11.2	13.5	LC30
FL-34		52-1/8	49-5/8	10-9/16	45-1/2	3.3	15.3	18.0	LC30
FL-D22		73	25	15-13/16	21	2.3	10.1	12.7	LC25
FL-D23		73	37-3/8	15-13/16	33-5/16	3.6	16.0	18.9	LC25
FL-D24		73	49-5/8	15-13/16	45-1/2	5.0	21.9	25.2	LC25
FL-D32		105-3/8	25	23-7/8	21	3.4	14.8	18.3	LC25
FL-D33	E ₁	105-3/8	37-3/8	23-7/8	33-5/16	5.5	23.6	27.3	LC25
FL-D34	E ₁	105-3/8	49-5/8	23-7/8	45-1/2	7.5	32.2	36.3	LC25

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 by 0.0929.

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



SLIDING WINDOW

DETAILED PRODUCT DESCRIPTIONS



FRAME

- Overall frame depth: 4-1/2" on all frame types except the 3-1/4" Block Pocket Replacement frame. The 3-1/4" Block Pocket Replacement frame has an overall frame depth of 4-7/8".
- Frame members are mitered and heat fused to provide a fully welded corner assembly with SmoothSeam™ virtually invisible interior corner welds. Sill is fitted with weeps.
- Frame: [1-7/16" setback nail fin for 3-1/16" wall depth] [Block frame for 4-1/2" wall depth] [Block frame for 3-1/4" Block Pocket Replacement install] [Flush flange for 4-1/16" wall depth] [Integral flange for 3-7/8" wall depth].
- Interior and exterior frame surfaces are extruded rigid PVC.

SASH

- Sash members are extruded, rigid PVC [with optional foam insulation₁].
- Sash members are mitered and heat-fused to provide a fully welded corner assembly with SmoothSeam™ virtually invisible interior corner welds.
- Includes an integral extruded sash slide.
- Contains sealed insulating glass.

WEATHERSTRIPPING

- Sash is weatherstripped around the sash perimeter with a fin-type, pile weatherstripping.

GLAZING SYSTEM

- Quality float glass complying with ASTM C 1036.
- Exterior face-glazed sealed insulating glass.
- [11/16"] [1"] Dual-Pane annealed [Advanced Low-E coated [with Argon]] [NaturalSun Low-E coated [with Argon]] [SunDefense™ Low-E coated [with Argon]] [Bronze, Advanced Low-E coated [with Argon]] [Gray Low-E coated [with Argon]] [Obscure₂] [High Altitude₁] [Tempered].
- or-
- 1-1/4" Triple-Pane annealed [Advanced Low-E coated with Argon] [NaturalSun Low-E coated with Argon] [Obscure₂] [High Altitude₁] [Tempered].

INTERIOR / EXTERIOR

- Window frame members [[White] [Almond] have an integral color extruded throughout the profiles] [Brown exterior has a solar reflective coating per AAMA 614, and integral color on the interior]. All exposed PVC surfaces are smooth, glossy and uniform in appearance.
- Frame color: [White] [Almond] [Brown exterior / White interior].

HARDWARE

- Locks are factory-installed, zinc die cast, self-aligning, [cam action lock] [autolock] located on the check rail.
- Two sash locks are installed on units with 29-1/2" or greater frame height.
- Vents are equipped with two nylon roller housings containing two nylon rollers each.
- Hardware finish is [White] [Almond] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

SCREENS

- Set in aluminum frame and fitted to exterior of window.
- Screen frame finish is baked enamel, color to match exterior
- Screens for window with frame height ≤ 51-1/2" have one plunger per side, screens for windows with frame height > 51-1/2" have two plungers per side. Screens for windows with frame width > 39" or frame height > 53-1/2" have a screen spreader bar. Supplied complete with all necessary hardware.
- Conventional Black Fiberglass
 - Black vinyl coated 18/16 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201.
- or-
- InView™ Screens
 - Black vinyl coated 18/18 mesh fiberglass screen cloth complying with SMA 1201.

OPTIONAL PRODUCTS

Grilles

- Grilles-Between-the-Glass
 - Insulating glass contains [3/4"] [1"] contoured aluminum grilles permanently installed between two panes of glass.
 - Patterns are [Traditional] [6-Lite Prairie] [9-Lite Prairie] [Top Row] [Custom-Equally Divided].
 - Grilles match color of interior and exterior frame.
 - Available on units glazed with dual-pane and triple-pane insulated glass.
- Simulated-Divided-Light grilles without spacer
 - 7/8" Grilles permanently bonded to the interior and exterior of glass.
 - Patterns are [Traditional] [6-Lite Prairie] [9-Lite Prairie] [Top Row] [Custom-Equally Divided].
 - Grilles match color of interior and exterior frame.
 - Available only on units glazed with dual-pane insulated glass.

Hardware

- Optional limited opening hardware available for vent units in [White] [Almond] extruded vinyl to match the unit; nominal 3-3/4" opening.
- 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.

(1) Dual Pane IG High Altitude glazings are available with or without Argon. Triple Pane IG High Altitude glazings are only available without Argon.

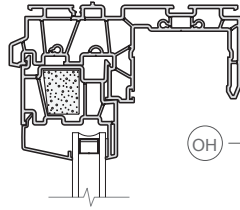
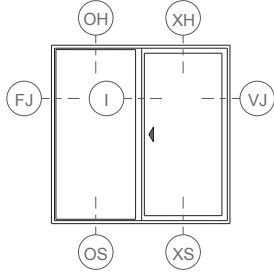
(2) Obscure glass not available with Bronze Advanced Low-E IG.



SLIDING WINDOW

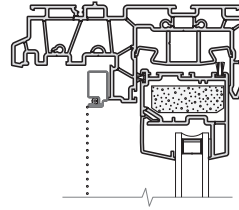
UNIT SECTIONS

Optional Foam Insulation



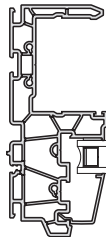
OH — FIXED HEAD

OS — FIXED SILL

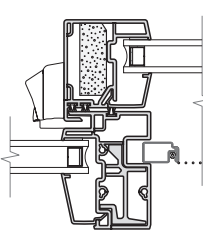


XH — VENT HEAD

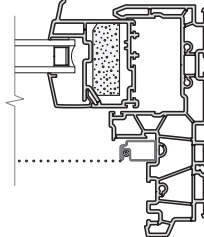
XS — VENT SILL



FJ — FIXED JAMB



I — INTERLOCKER



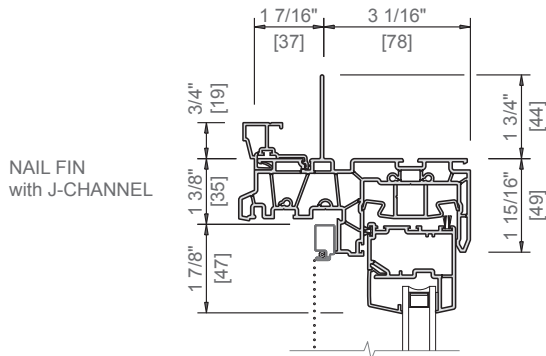
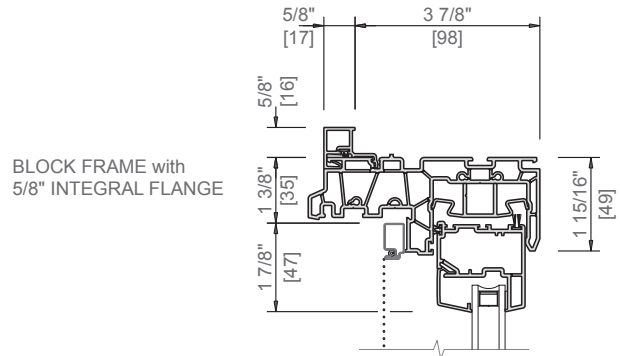
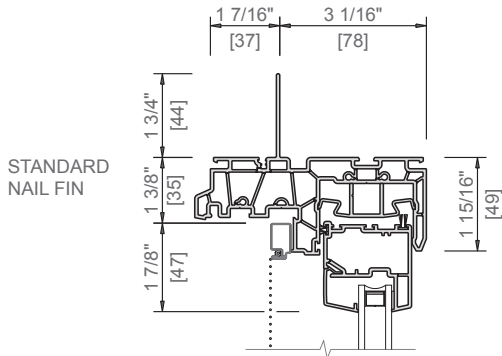
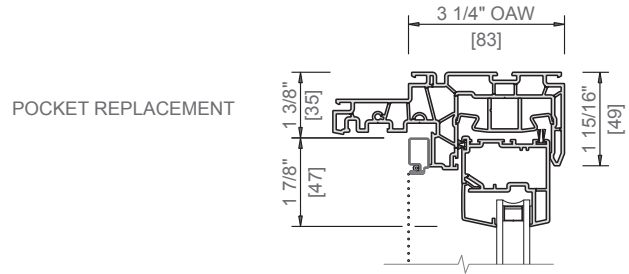
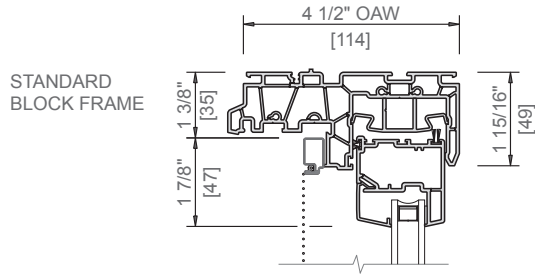
VJ — VENT JAMB

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

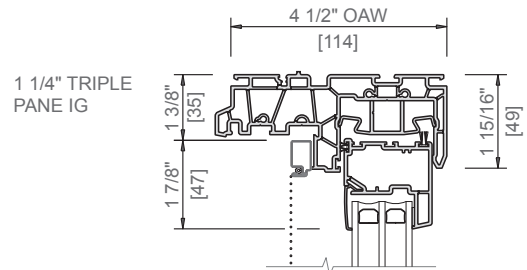
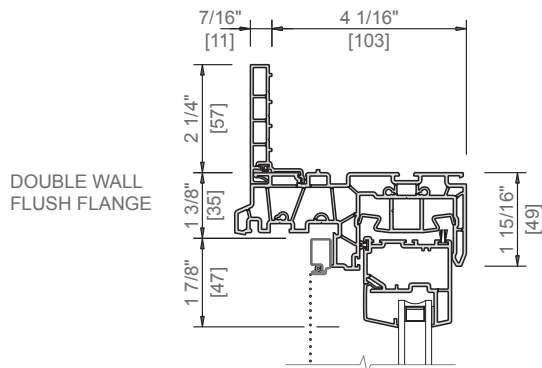
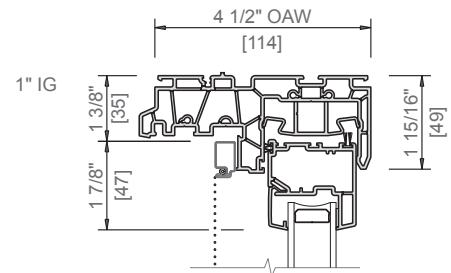


SLIDING WINDOW

UNIT SECTIONS
Installation Types



Additional Glazing Options



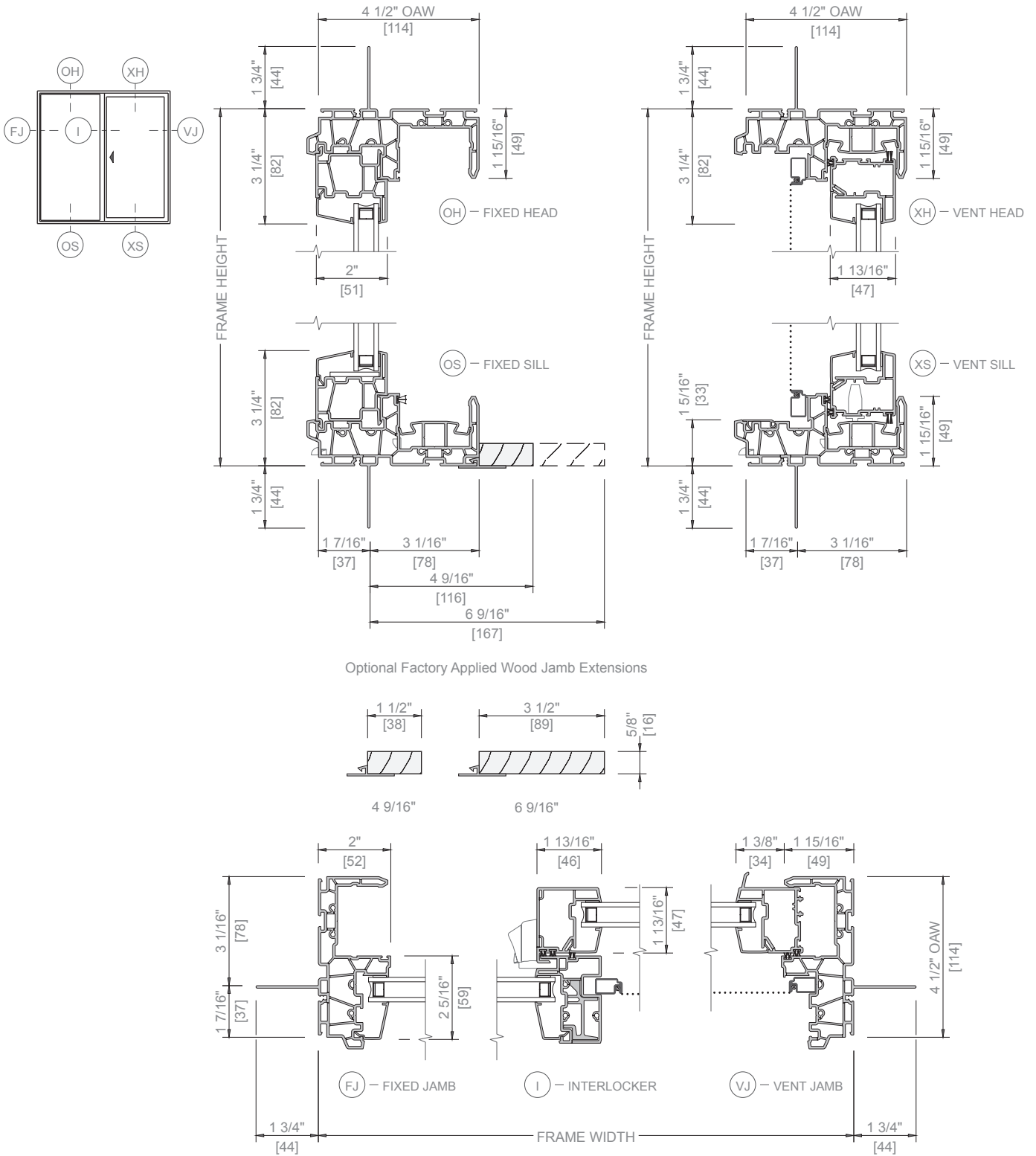
Scale 3" = 1' 0"
All dimensions are approximate.



SLIDING WINDOW

UNIT SECTIONS

Standard Nail Fin
OX/XO Units



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

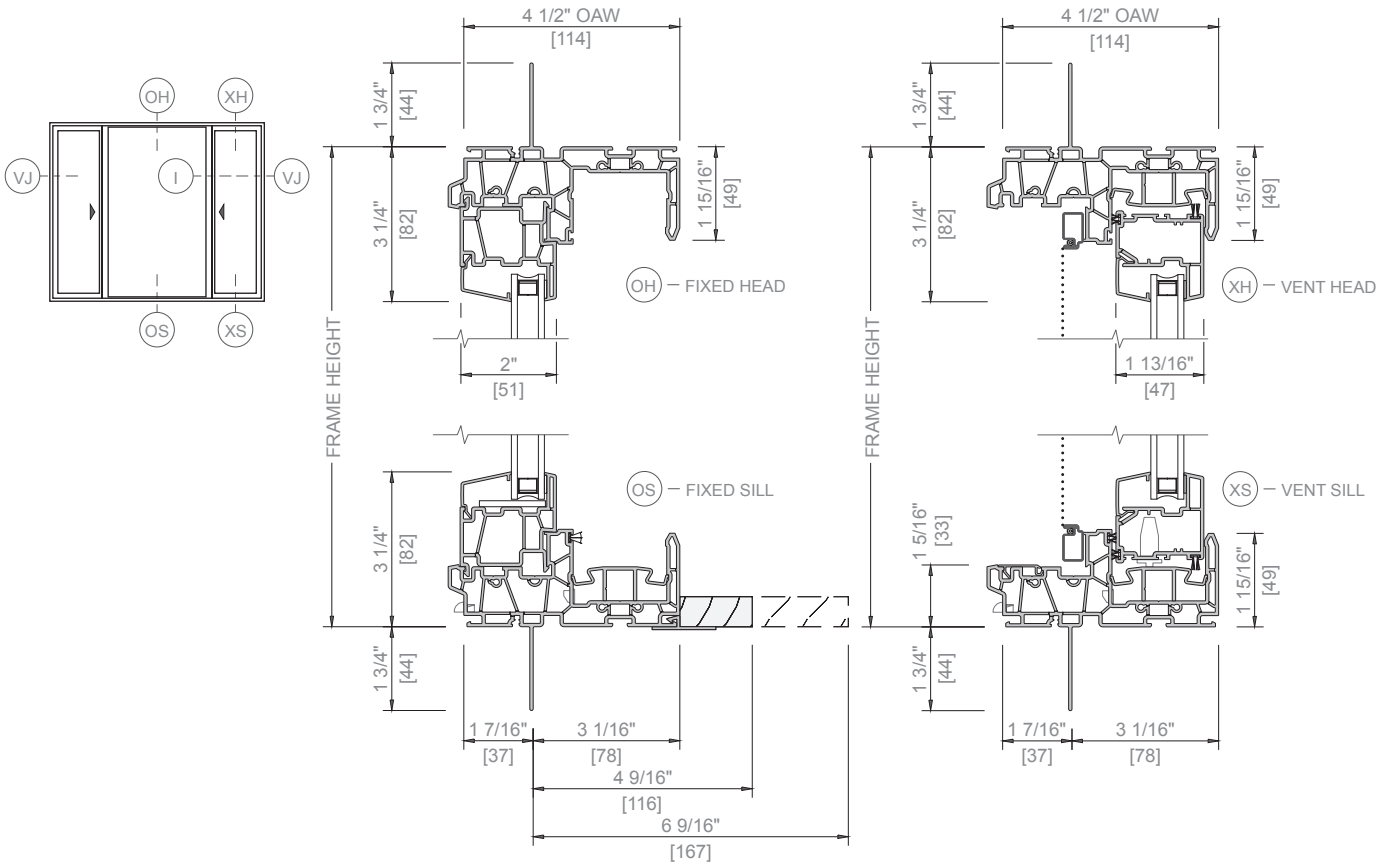


SLIDING WINDOW

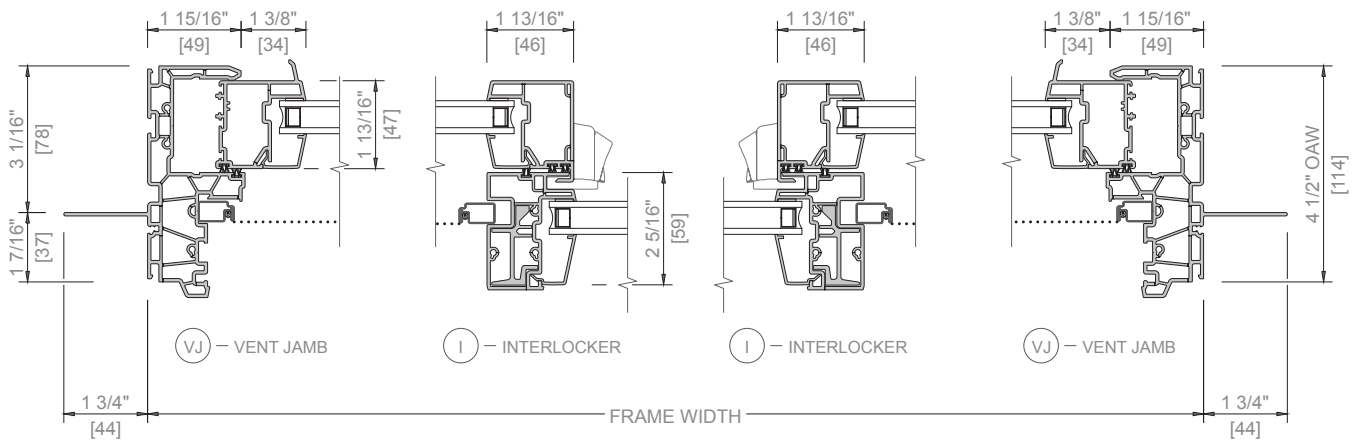
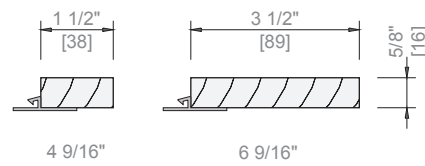
UNIT SECTIONS

Standard Nail Fin

OXO Units



Optional Factory Applied Wood Jamb Extensions



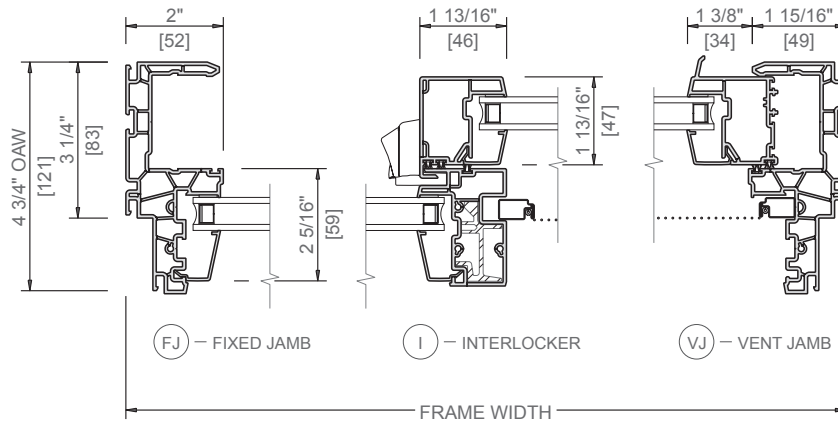
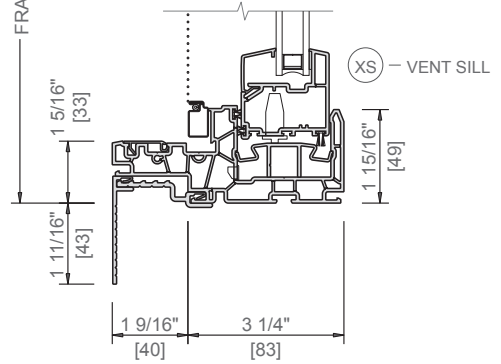
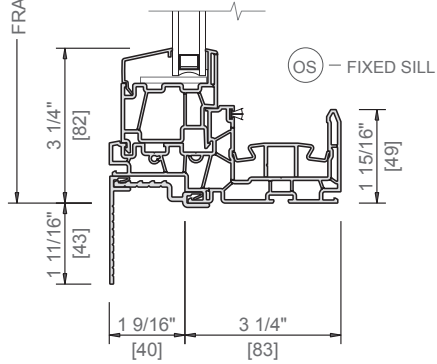
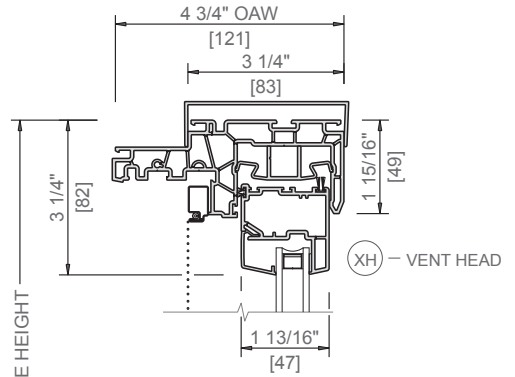
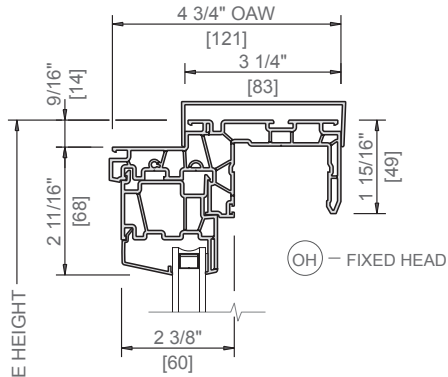
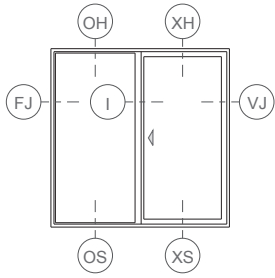
Scale 3" = 1' 0"
All dimensions are approximate.



SLIDING WINDOW

UNIT SECTIONS

Block Pocket Replacement Frame
OX/XO Units



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