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General Notes:

Specifications subject to change without notice. See www.PellaADM.com for most current technical data.

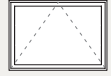
For complete CSI Format Specifications, see www.PellaADM.com.

X = Venting or sliding panel as viewed from the exterior.

O = Fixed panel as viewed from the exterior.



BRAND SUMMARY



AWNING

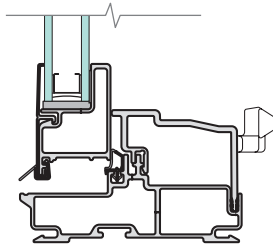
Pella® Impervia® Awning

windows are perfect for contemporary or traditional applications and feature all the Pella innovations you demand. All 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 patio 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. Pella Impervia products are prefinished with powder-coat paint. 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.



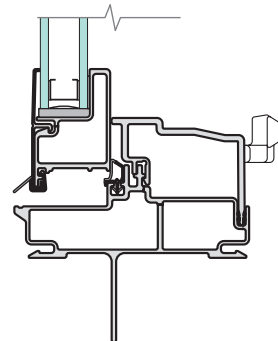
BLOCK FRAME

The 3-1/4" 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-jointed together. Our block frames may easily be used as a replacement window without removing the existing frame or damaging the exterior.



INTEGRAL NAILING FIN

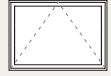
The integral nailing fin features a standard continuous fin, adding a protective weather barrier to the frame itself and allowing for smooth installation.





PRODUCT SELECTION GUIDE

Size and Performance Data



AWNING

Awning

	BLOCK FRAME	INTEGRAL NAILING FIN
SIZES		
Standard Vent/Fixed	●	●
Standard Fixed Companion Sizes	●	●
Special Sizes	●	●
PERFORMANCE ₁		
Meets or Exceeds AAMA/WDMA Ratings	AP-LC50 Hallmark Certified	AP-LC50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	0.05	0.05
Water Resistance	7.5 psf	7.5 psf
Design Pressure	50 psf	50 psf
OTHER PERFORMANCE CRITERIA		
Forced Entry Resistance Level (Minimum Security Grade) ₂	40	40
Maximum Operating Force (lb) Initiate Motion/Maintain Motion	15/6	15/6

Large Awning

	BLOCK FRAME	INTEGRAL NAILING FIN
SIZES		
Standard Vent/Fixed	●	●
Special Sizes	●	●
PERFORMANCE ₁		
Meets or Exceeds AAMA/WDMA Ratings	AP-LC30 - AP-LC50 Hallmark Certified	AP-LC30 - AP-LC50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	0.05	0.05
Water Resistance	7.5 psf	7.5 psf
Design Pressure	30 - 50 psf	30 - 50 psf
OTHER PERFORMANCE CRITERIA		
Forced Entry Resistance Level (Minimum Security Grade) ₂	40	40
Maximum Operating Force (lb) Initiate Motion/Maintain Motion	6/3	6/3

S = Standard; O = Optional

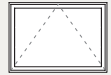
(1) See Design Data pages in this section for specific product performance class and grade values.

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



PRODUCT SELECTION GUIDE

Features and Options



AWNING

	BLOCK FRAME	INTEGRAL NAILING FIN
GLAZING		
Glazing Type		
Dual-pane Insulating Glass	S	S
Insulated Glass Options / Low-E Types		
Clear Insulating Glass (no Low-E coating)	S	S
Advanced Low-E Insulating Glass	O	O
SunDefense™ Low-E Insulating Glass	O	O
AdvancedComfort Low-E Insulating Glass	O	O
NaturalSun Low-E Insulating Glass	O	O
Additional Glass Options		
Annealed Glass	S	S
Tempered Glass	O	O
Obscure Glass ⁽¹⁾	O	O
Gas Fill / High Altitude		
Argon	S	S
High Altitude	O	O
High Altitude with argon	O	O
EXTERIOR / INTERIOR		
Powder-Coat White	S	S
Powder-Coat Tan, Brown, Black, or Morning Sky Gray	O	O
Dual-color (All Exterior Colors with White interior)	O	-
HARDWARE		
Match interior finish	S	S
Satin Nickel, Bright Brass or Oil-Rubbed Bronze	O	O
SASH LOCKS		
SureLock® System	S	S
Unison Lock System	S	S
SCREENS		
Conventional Black Fiberglass	O	O
InView™ screens	O	O
GRILLES		
Grilles-Between-the-Glass		
Traditional, Prairie, Top Row and Custom - Equally Divided	O	O

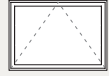
S = Standard; O = Optional; (-) = Not available

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



GLAZING PERFORMANCE - TOTAL UNIT

Vent Units



AWNING

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"	Clear IG	PEL-N-151-00257-00001	2.5	2.5	air	0.46	0.56	58	43									
	with grilles-between-the-glass	PEL-N-151-00258-00001				0.46	0.51	53	43									
11/16"	Clear IG	PEL-N-151-00257-00003	3	3	air	0.46	0.55	58	43									
	with grilles-between-the-glass	PEL-N-151-00258-00003				0.46	0.50	52	43									
11/16"	Advanced Low-E IG	PEL-N-151-00287-00001	2.5	2.5	argon	0.29	0.27	50	58									
	with grilles-between-the-glass	PEL-N-151-00288-00001				0.29	0.24	45	58									
11/16"	Advanced Low-E IG	PEL-N-151-00287-00003	3	3	argon	0.29	0.27	49	58									
	with grilles-between-the-glass	PEL-N-151-00288-00003				0.29	0.24	45	58									
11/16"	SunDefense™ IG	PEL-N-151-00299-00001	2.5	2.5	argon	0.29	0.20	46	58									
	with grilles-between-the-glass	PEL-N-151-00300-00001				0.29	0.18	42	58									
11/16"	SunDefense IG	PEL-N-151-00299-00003	3	3	argon	0.29	0.20	45	58									
	with grilles-between-the-glass	PEL-N-151-00300-00003				0.29	0.18	41	58									
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00323-00001	2.5	2.5	argon	0.26	0.26	48	46						22			
	with grilles-between-the-glass	PEL-N-151-00324-00001				0.26	0.24	44	46						21			
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00323-00003	3	3	argon	0.26	0.26	48	46						22			
	with grilles-between-the-glass	PEL-N-151-00324-00003				0.26	0.24	43	46						21			
11/16"	NaturalSun Low-E IG	PEL-N-151-00275-00001	2.5	2.5	argon	0.30	0.47	56	57						29			
	with grilles-between-the-glass	PEL-N-151-00276-00001				0.30	0.43	51	57						27			
11/16"	NaturalSun Low-E IG	PEL-N-151-00275-00005	3	3	argon	0.30	0.46	56	57						29			
	with grilles-between-the-glass	PEL-N-151-00276-00005				0.30	0.42	50	57						26			
VENT UNITS – WITH FOAM INSULATION																		
11/16"	Advanced Low-E IG	PEL-N-151-00371-00001	2.5	2.5	argon	0.28	0.27	50	58						20			
	with grilles-between-the-glass	PEL-N-151-00372-00001				0.28	0.24	45	58						19			
11/16"	Advanced Low-E IG	PEL-N-151-00371-00003	3	3	argon	0.28	0.27	49	58						20			
	with grilles-between-the-glass	PEL-N-151-00372-00003				0.28	0.24	45	58						19			
11/16"	SunDefense IG	PEL-N-151-00383-00001	2.5	2.5	argon	0.28	0.20	46	58						16			
	with grilles-between-the-glass	PEL-N-151-00384-00001				0.28	0.18	42	58									
11/16"	SunDefense IG	PEL-N-151-00383-00003	3	3	argon	0.28	0.20	45	58						16			
	with grilles-between-the-glass	PEL-N-151-00384-00003				0.28	0.18	41	58									
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00407-00001	2.5	2.5	argon	0.25	0.26	48	46						23			
	with grilles-between-the-glass	PEL-N-151-00408-00001				0.25	0.24	44	46						22			
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00407-00003	3	3	argon	0.25	0.26	48	46						23			
	with grilles-between-the-glass	PEL-N-151-00408-00003				0.25	0.24	43	46						22			
11/16"	NaturalSun Low-E IG	PEL-N-151-00359-00001	2.5	2.5	argon	0.29	0.47	56	57						31			
	with grilles-between-the-glass	PEL-N-151-00360-00001				0.29	0.43	51	57						28			
11/16"	NaturalSun Low-E IG	PEL-N-151-00359-00005	3	3	argon	0.29	0.46	56	57						30			
	with grilles-between-the-glass	PEL-N-151-00360-00005				0.29	0.42	50	57						28			

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

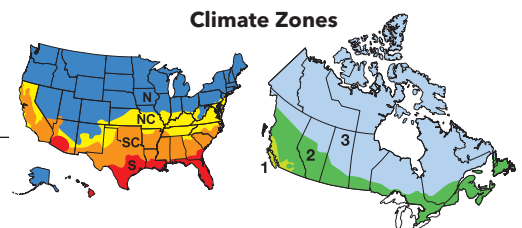
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.

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.

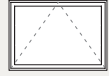
See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.





GLAZING PERFORMANCE - TOTAL UNIT

Vent Units

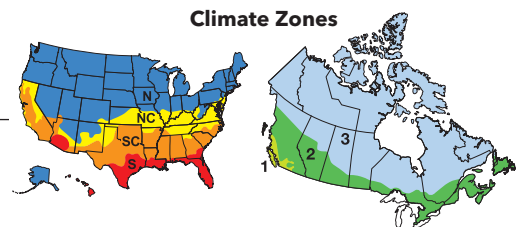


AWNING

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				
HIGH ALTITUDE GLAZING																	
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00281-00001	2.5	2.5	air	0.33	0.27	50	54								
	with grilles-between-the-glass	PEL-N-151-00282-00001				0.33	0.25	45	54								
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00281-00003	3	3	air	0.33	0.27	49	54								
	with grilles-between-the-glass	PEL-N-151-00282-00003				0.33	0.25	45	54								
11/16"	(HA) SunDefense IG	PEL-N-151-00293-00001	2.5	2.5	air	0.32	0.20	46	54								
	with grilles-between-the-glass	PEL-N-151-00294-00001				0.32	0.19	42	54								
11/16"	(HA) SunDefense IG	PEL-N-151-00293-00003	3	3	air	0.32	0.20	45	54								
	with grilles-between-the-glass	PEL-N-151-00294-00003				0.32	0.19	41	54								
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00317-00001	2.5	2.5	air	0.29	0.26	48	42								
	with grilles-between-the-glass	PEL-N-151-00318-00001				0.29	0.24	44	42								
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00317-00003	3	3	air	0.29	0.26	48	42								
	with grilles-between-the-glass	PEL-N-151-00318-00003				0.29	0.24	43	42								
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00269-00001	2.5	2.5	air	0.34	0.47	56	53								
	with grilles-between-the-glass	PEL-N-151-00270-00001				0.34	0.43	51	53								
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00269-00005	3	3	air	0.34	0.46	56	53								
	with grilles-between-the-glass	PEL-N-151-00270-00005				0.34	0.42	50	53								
HIGH ALTITUDE GLAZING - WITH FOAM INSULATION																	
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00365-00001	2.5	2.5	air	0.32	0.27	50	54								
	with grilles-between-the-glass	PEL-N-151-00366-00001				0.32	0.25	45	54								
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00365-00003	3	3	air	0.32	0.27	49	54								
	with grilles-between-the-glass	PEL-N-151-00366-00003				0.32	0.25	45	54								
11/16"	(HA) SunDefense IG	PEL-N-151-00377-00001	2.5	2.5	air	0.31	0.20	46	54								
	with grilles-between-the-glass	PEL-N-151-00378-00001				0.31	0.19	42	54								
11/16"	(HA) SunDefense IG	PEL-N-151-00377-00003	3	3	air	0.31	0.20	45	54								
	with grilles-between-the-glass	PEL-N-151-00378-00003				0.31	0.19	41	54								
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00401-00001	2.5	2.5	air	0.28	0.26	48	42					20			
	with grilles-between-the-glass	PEL-N-151-00402-00001				0.28	0.24	44	42					19			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00401-00003	3	3	air	0.28	0.26	48	42					20			
	with grilles-between-the-glass	PEL-N-151-00402-00003				0.28	0.24	43	42					19			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00353-00001	2.5	2.5	air	0.32	0.47	56	53					27			
	with grilles-between-the-glass	PEL-N-151-00354-00001				0.32	0.43	51	53					25			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00353-00005	3	3	air	0.32	0.46	56	53					26			
	with grilles-between-the-glass	PEL-N-151-00354-00005				0.32	0.42	50	53								

R-Value = 1/U-Factor
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 CR = Condensation Resistance
 ER = Canadian Energy Rating

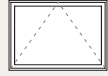
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 See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.





GLAZING PERFORMANCE - TOTAL UNIT

Large Awning



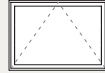
AWNING

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 UNITS																				
11/16"	Clear IG	PEL-N-151-00257-00001	2.5	2.5	air	0.46	0.56	58	43											
	with grilles-between-the-glass	PEL-N-151-00258-00001				0.46	0.51	53	43											
11/16"	Clear IG	PEL-N-151-00257-00003	3	3	air	0.46	0.55	58	43											
	with grilles-between-the-glass	PEL-N-151-00258-00003				0.46	0.50	52	43											
11/16"	Clear IG	PEL-N-151-00261-00001	5	5	air	0.48	0.53	57	41											
	with grilles-between-the-glass	PEL-N-151-00262-00001				0.48	0.48	51	41											
11/16"	Advanced Low-E IG	PEL-N-151-00287-00001	2.5	2.5	argon	0.29	0.27	50	58											
	with grilles-between-the-glass	PEL-N-151-00288-00001				0.29	0.24	45	58											
11/16"	Advanced Low-E IG	PEL-N-151-00287-00003	3	3	argon	0.29	0.27	49	58											
	with grilles-between-the-glass	PEL-N-151-00288-00003				0.29	0.24	45	58											
11/16"	Advanced Low-E IG	PEL-N-151-00291-00001	5	5	argon	0.32	0.26	48	54											
	with grilles-between-the-glass	PEL-N-151-00292-00001				0.33	0.24	44	54											
11/16"	SunDefense™ IG	PEL-N-151-00299-00001	2.5	2.5	argon	0.29	0.20	46	58											
	with grilles-between-the-glass	PEL-N-151-00300-00001				0.29	0.18	42	58											
11/16"	SunDefense™ IG	PEL-N-151-00299-00003	3	3	argon	0.29	0.20	45	58											
	with grilles-between-the-glass	PEL-N-151-00300-00003				0.29	0.18	41	58											
11/16"	SunDefense™ IG	PEL-N-151-00303-00001	5	5	argon	0.31	0.20	45	54											
	with grilles-between-the-glass	PEL-N-151-00304-00001				0.33	0.19	40	54											
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00323-00001	2.5	2.5	argon	0.26	0.26	48	46							22				
	with grilles-between-the-glass	PEL-N-151-00324-00001				0.26	0.24	44	46							21				
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00323-00003	3	3	argon	0.26	0.26	48	46							22				
	with grilles-between-the-glass	PEL-N-151-00324-00003				0.26	0.24	43	46							21				
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00327-00001	5	5	argon	0.28	0.26	47	42							20				
	with grilles-between-the-glass	PEL-N-151-00328-00001				0.29	0.23	43	42											
11/16"	NaturalSun Low-E IG	PEL-N-151-00275-00002	2.5	2.5	argon	0.30	0.50	56	57							31				
	with grilles-between-the-glass	PEL-N-151-00276-00002				0.30	0.45	51	57							28				
11/16"	NaturalSun Low-E IG	PEL-N-151-00275-00006	3	3	argon	0.30	0.49	56	57							31				
	with grilles-between-the-glass	PEL-N-151-00276-00006				0.30	0.44	50	57							28				
11/16"	NaturalSun Low-E IG	PEL-N-151-00279-00002	5	5	argon	0.33	0.47	55	53							26				
	with grilles-between-the-glass	PEL-N-151-00280-00002				0.34	0.43	49	53											
VENT UNITS – WITH FOAM INSULATION																				
11/16"	Advanced Low-E IG	PEL-N-151-00371-00001	2.5	2.5	argon	0.28	0.27	50	58							20				
	with grilles-between-the-glass	PEL-N-151-00372-00001				0.28	0.24	45	58							19				
11/16"	Advanced Low-E IG	PEL-N-151-00371-00003	3	3	argon	0.28	0.27	49	58							20				
	with grilles-between-the-glass	PEL-N-151-00372-00003				0.28	0.24	45	58							19				
11/16"	Advanced Low-E IG	PEL-N-151-00375-00001	5	5	argon	0.31	0.26	48	54											
	with grilles-between-the-glass	PEL-N-151-00376-00001				0.32	0.24	44	54											
11/16"	SunDefense IG	PEL-N-151-00383-00001	2.5	2.5	argon	0.28	0.20	46	58							16				
	with grilles-between-the-glass	PEL-N-151-00384-00001				0.28	0.18	42	58											
11/16"	SunDefense IG	PEL-N-151-00383-00003	3	3	argon	0.28	0.20	45	58							16				
	with grilles-between-the-glass	PEL-N-151-00384-00003				0.28	0.18	41	58											
11/16"	SunDefense IG	PEL-N-151-00387-00001	5	5	argon	0.30	0.20	45	54											
	with grilles-between-the-glass	PEL-N-151-00388-00001				0.31	0.19	40	54											
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00407-00001	2.5	2.5	argon	0.25	0.26	48	46							23				
	with grilles-between-the-glass	PEL-N-151-00408-00001				0.25	0.24	44	46							22				
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00407-00003	3	3	argon	0.25	0.26	48	46							23				
	with grilles-between-the-glass	PEL-N-151-00408-00003				0.25	0.24	43	46							22				
11/16"	AdvancedComfort Low-E IG	PEL-N-151-00411-00001	5	5	argon	0.27	0.26	47	42							21				
	with grilles-between-the-glass	PEL-N-151-00412-00001				0.28	0.23	43	42							18				
11/16"	NaturalSun Low-E IG	PEL-N-151-00359-00002	2.5	2.5	argon	0.29	0.50	56	57							32				
	with grilles-between-the-glass	PEL-N-151-00360-00002				0.29	0.45	51	57							29				
11/16"	NaturalSun Low-E IG	PEL-N-151-00359-00006	3	3	argon	0.29	0.49	56	57							32				
	with grilles-between-the-glass	PEL-N-151-00360-00006				0.29	0.44	50	57							29				
11/16"	NaturalSun Low-E IG	PEL-N-151-00363-00002	5	5	argon	0.32	0.47	55	53							27				
	with grilles-between-the-glass	PEL-N-151-00364-00002				0.33	0.43	49	53											



GLAZING PERFORMANCE - TOTAL UNIT

Large Awning High Altitude

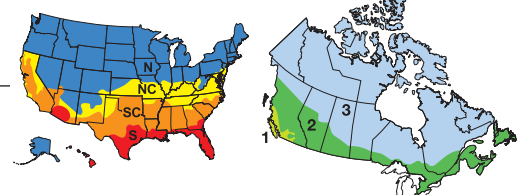


AWNING

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"	(HA) Advanced Low-E IG	PEL-N-151-00281-00001	2.5	2.5	air	0.33	0.27	50	54									
	with grilles-between-the-glass	PEL-N-151-00282-00001				0.33	0.25	45	54									
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00281-00003	3	3	air	0.33	0.27	49	54									
	with grilles-between-the-glass	PEL-N-151-00282-00003				0.33	0.25	45	54									
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00285-00001	5	5	air	0.36	0.27	48	50									
	with grilles-between-the-glass	PEL-N-151-00286-00001				0.38	0.24	44	50									
11/16"	(HA) SunDefense IG	PEL-N-151-00293-00001	2.5	2.5	air	0.32	0.20	46	54									
	with grilles-between-the-glass	PEL-N-151-00294-00001				0.32	0.19	42	54									
11/16"	(HA) SunDefense IG	PEL-N-151-00293-00003	3	3	air	0.32	0.20	45	54									
	with grilles-between-the-glass	PEL-N-151-00294-00003				0.32	0.19	41	54									
11/16"	(HA) SunDefense IG	PEL-N-151-00297-00001	5	5	air	0.36	0.21	45	50									
	with grilles-between-the-glass	PEL-N-151-00298-00001				0.37	0.19	40	50									
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00317-00001	2.5	2.5	air	0.29	0.26	48	42									
	with grilles-between-the-glass	PEL-N-151-00318-00001				0.29	0.24	44	42									
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00317-00003	3	3	air	0.29	0.26	48	42									
	with grilles-between-the-glass	PEL-N-151-00318-00003				0.29	0.24	43	42									
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00321-00001	5	5	air	0.32	0.26	47	38									
	with grilles-between-the-glass	PEL-N-151-00322-00001				0.32	0.24	43	38									
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00269-00002	2.5	2.5	air	0.34	0.49	56	53						26			
	with grilles-between-the-glass	PEL-N-151-00270-00002				0.34	0.45	51	53									
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00269-00006	3	3	air	0.34	0.49	56	53						26			
	with grilles-between-the-glass	PEL-N-151-00270-00006				0.34	0.44	50	53									
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00273-00002	5	5	air	0.37	0.46	55	49									
	with grilles-between-the-glass	PEL-N-151-00274-00002				0.38	0.42	49	49									
HIGH ALTITUDE GLAZING – WITH FOAM INSULATION																		
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00365-00001	2.5	2.5	air	0.32	0.27	50	54									
	with grilles-between-the-glass	PEL-N-151-00366-00001				0.32	0.25	45	54									
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00365-00003	3	3	air	0.32	0.27	49	54									
	with grilles-between-the-glass	PEL-N-151-00366-00003				0.32	0.25	45	54									
11/16"	(HA) Advanced Low-E IG	PEL-N-151-00369-00001	5	5	air	0.35	0.27	48	50									
	with grilles-between-the-glass	PEL-N-151-00370-00001				0.36	0.24	44	50									
11/16"	(HA) SunDefense IG	PEL-N-151-00377-00001	2.5	2.5	air	0.31	0.20	46	54									
	with grilles-between-the-glass	PEL-N-151-00378-00001				0.31	0.19	42	54									
11/16"	(HA) SunDefense IG	PEL-N-151-00377-00003	3	3	air	0.31	0.20	45	54									
	with grilles-between-the-glass	PEL-N-151-00378-00003				0.31	0.19	41	54									
11/16"	(HA) SunDefense IG	PEL-N-151-00381-00001	5	5	air	0.35	0.21	45	50									
	with grilles-between-the-glass	PEL-N-151-00382-00001				0.36	0.19	40	50									
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00401-00001	2.5	2.5	air	0.28	0.26	48	42						20			
	with grilles-between-the-glass	PEL-N-151-00402-00001				0.28	0.24	44	42						19			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00401-00003	3	3	air	0.28	0.26	48	42						20			
	with grilles-between-the-glass	PEL-N-151-00402-00003				0.28	0.24	43	42						19			
11/16"	(HA) AdvancedComfort Low-E IG	PEL-N-151-00405-00001	5	5	air	0.30	0.26	47	38									
	with grilles-between-the-glass	PEL-N-151-00406-00001				0.31	0.24	43	38									
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00353-00002	2.5	2.5	air	0.32	0.49	56	53						28			
	with grilles-between-the-glass	PEL-N-151-00354-00002				0.32	0.45	51	53						26			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00353-00006	3	3	air	0.32	0.49	56	53						28			
	with grilles-between-the-glass	PEL-N-151-00354-00006				0.32	0.44	50	53						25			
11/16"	(HA) NaturalSun Low-E IG	PEL-N-151-00357-00002	5	5	air	0.36	0.46	55	49									
	with grilles-between-the-glass	PEL-N-151-00358-00002				0.37	0.42	49	49									

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

Climate Zones



(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.

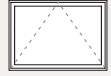
For center-glass values, see the Product Performance section.

See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.



SOUND TRANSMISSION CLASS

Outdoor-Indoor Transmission Class



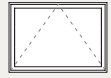
AWNING

Product	Frame Size Tested ₁	Glazing System			STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness		
AWNING VENT	59" x 23-1/2"	1 1/16"	2.5mm	2.5mm	27	21
LARGE AWNING FIXED	59" x 23-1/2"	1 1/16"	2.5mm	2.5mm	27	21

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



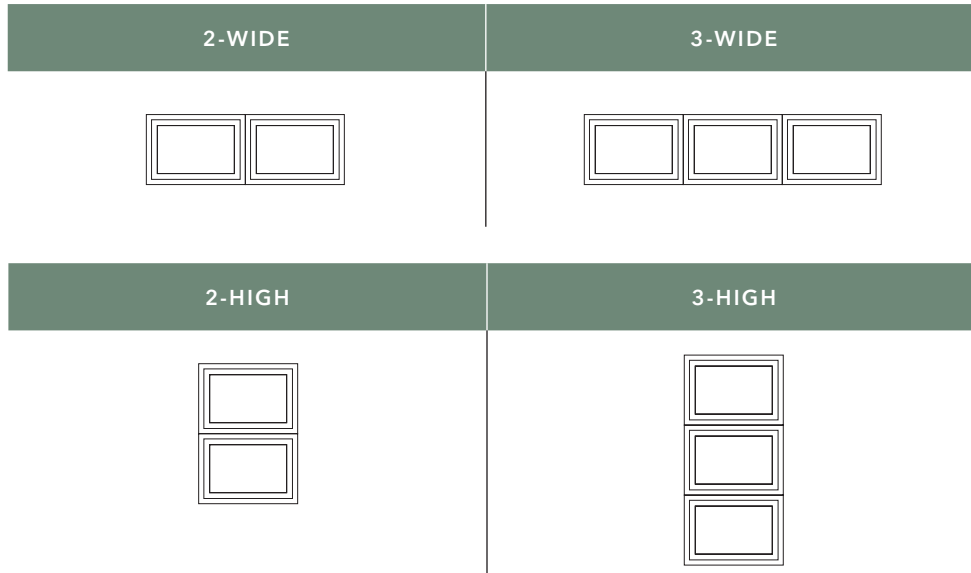
COMBINATION ASSEMBLIES GRILLE TYPES



AWNING

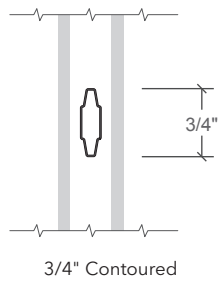
A combination is defined as an assembly formed by two or more separate windows or doors whose frames are mullioned together utilizing a combination mullion or reinforcing mullion.

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



Grille Profiles

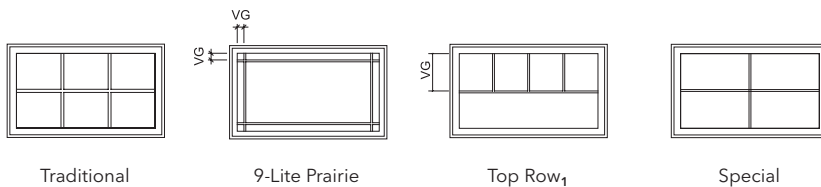
GRILLES-BETWEEN-THE-GLASS



[Click here for the Impervia Combinations Section](#)

- [Downloadable PDF file.](#)

Grille Patterns



For traditional patterns, see size tables.

Standard corner lite dimension for Prairie patterns = 4" visible glass (VG).

(1) Standard visible glass to center line of separator bar dimension = 14" or half of total visible glass height, whichever is smaller.

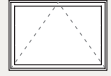
Multiple rows are available up to 50% glass size.

Pattern availability may vary depending on size of unit.





















SIZE TABLES

Vent and Fixed













































AWNING

Vent and Fixed Units

	(610) (597)	(711) (699)	(813) (800)	(914) (902)	(1 219) (1 207)	(1 372) (1 359)
Opening	2' 0"	2' 4"	2' 8"	3' 0"	4' 0"	4' 6"
Frame	1' 11 1/2"	2' 3 1/2"	2' 7 1/2"	2' 11 1/2"	3' 11 1/2"	4' 5 1/2"
SPECIAL NARROWER SIZES AVAILABLE						
(457) (445)	 2-0/1-6	 2-4/1-6	 2-8/1-6	 3-0/1-6	 4-0/1-6	 4-6/1-6
(610) (597)	 2-0/2-0	 2-4/2-0	 2-8/2-0	 3-0/2-0	 4-0/2-0	 4-6/2-0
(762) (749)	 2-0/2-6	 2-4/2-6	 2-8/2-6	 3-0/2-6	 4-0/2-6	 4-6/2-6

Fixed Units

(914) (902)	 2-0/3-0	 2-4/3-0	 2-8/3-0	 3-0/3-0	 4-0/3-0	 4-6/3-0
(1 067) (1 054)	 2-0/3-6	 2-4/3-6	 2-8/3-6	 3-0/3-6	 4-0/3-6	 4-6/3-6
(1 219) (1 207)	 2-0/4-0	 2-4/4-0	 2-8/4-0	 3-0/4-0	 4-0/4-0	 4-6/4-0
(1 372) (1 359)	 2-0/4-6	 2-4/4-6	 2-8/4-6	 3-0/4-6	 4-0/4-6	 4-6/4-6
(1 524) (1 511)	 2-0/5-0	 2-4/5-0	 2-8/5-0	 3-0/5-0	 4-0/5-0	 4-6/5-0
(1 676) (1 664)	 2-0/5-6	 2-4/5-6	 2-8/5-6	 3-0/5-6	 4-0/5-6	 4-6/5-6
(1 829) (1 816)	 2-0/6-0	 2-4/6-0	 2-8/6-0	 3-0/6-0	 4-0/6-0	 4-6/6-0

Special Size Frame Dimensions*

	MINIMUM	MAXIMUM
VENT	1'8" W x 1'5-1/2" H (508 x 444)	4'5-1/2" W x 2'5-1/2" H (1 359 x 749)
FIXED	1'1/2" W x 1'1/2" H (317 x 317)	5'11-1/2" W x 6'7-1/2" H (1 816 x 2 019)

* Available within size range shown.

Not to scale.

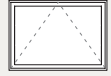
Keep frame dimensions to the nearest 1/4" increment. Frame height cannot exceed frame width on special size vent units.

Traditional grille patterns shown. See Grilles in the Overview section for additional patterns and profiles.



SIZE TABLES

Large Awning



AWNING

Vent

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

Special Size Frame Dimensions*

	MINIMUM	MAXIMUM
VENT	2'5-1/2" W x 2'5-1/2" H (749 x 749)	4'11-1/2" W x 4'11-1/2" H (1 511 x 1 511)

* Available within size range shown.

Not to scale.

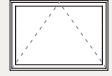
Keep frame dimensions to the nearest 1/4" increment.

Traditional grille patterns shown. See Grilles in the Overview section for additional patterns and profiles.



DESIGN DATA

Vent and Fixed



AWNING

VENT AND FIXED UNITS

Unit	Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁
			Annealed	Tempered	
2-0/1-6	1.6	1.5	2.5	3	LC50
2-0/2-0	0.8	2.3	2.5	3	LC50
2-0/2-6	1.1	3.0	2.5	3	LC50
2-4/1-6	2.1	2.0	2.5	3	LC50
2-4/2-0	1.1	3.0	2.5	3	LC50
2-4/2-6	1.4	4.0	2.5	3	LC50
2-8/1-6	2.3	2.2	2.5	3	LC50
2-8/2-0	1.2	3.3	2.5	3	LC50
2-8/2-6	1.5	4.4	2.5	3	LC50
3-0/1-6	2.6	2.5	2.5	3	LC50
3-0/2-0	1.4	3.8	2.5	3	LC50
3-0/2-6	1.8	5.0	2.5	3	LC50
4-0/1-6	3.6	3.5	2.5	3	LC50
4-0/2-0	1.9	5.3	2.5	3	LC50
4-0/2-6	2.5	7.0	2.5	3	LC50
4-6/1-6	4.2	4.0	2.5	3	LC50
4-6/2-0	2.2	6.0	2.5	3	LC50
4-6/2-6	2.8	8.0	2.5	3	LC50

FIXED UNITS

Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁
		Annealed	Tempered	
2-0/3-0	3.7	2.5	3	LC50
2-0/3-6	4.5	2.5	3	LC50
2-0/4-0	5.2	2.5	3	LC50
2-0/4-6	6.0	2.5	3	LC50
2-0/5-0	6.7	2.5	3	LC50
2-0/5-6	7.5	2.5	3	LC50
2-0/6-0	8.2	2.5	3	LC50
2-4/3-0	4.6	2.5	3	LC50
2-4/3-6	5.5	2.5	3	LC50
2-4/4-0	6.4	2.5	3	LC50
2-4/4-6	7.3	2.5	3	LC50
2-4/5-0	8.2	2.5	3	LC50
2-4/5-6	9.1	2.5	3	LC50
2-4/6-0	10.1	3	3	LC50
2-8/3-0	5.4	2.5	3	LC50
2-8/3-6	6.5	2.5	3	LC50
2-8/4-0	7.6	2.5	3	LC50
2-8/4-6	8.6	2.5	3	LC50
2-8/5-0	9.7	2.5	3	LC50
2-8/5-6	10.8	3	3	LC50
2-8/6-0	11.9	3	3	LC50
3-0/3-0	6.2	2.5	3	LC50
3-0/3-6	7.5	2.5	3	LC50
3-0/4-0	8.7	2.5	3	LC50
3-0/4-6	10.0	2.5	3	LC50
3-0/5-0	11.2	3	3	LC50
3-0/5-6	12.5	3	3	LC50
3-0/6-0	13.7	3	3	LC50
3-6/3-0	7.5	2.5	3	LC50
3-6/3-6	9.0	2.5	3	LC50
3-6/4-0	10.5	3	3	LC50
3-6/4-6	12.0	3	3	LC50
3-6/5-0	13.5	3	3	LC50
3-6/5-6	15.0	3	3	LC50
3-6/6-0	16.5	3	3	LC50
4-0/3-0	8.7	2.5	3	LC50
4-0/3-6	10.5	3	3	LC50
4-0/4-0	12.2	3	3	LC50
4-0/4-6	14.0	3	3	LC50
4-0/5-0	15.7	3	3	LC50
4-0/5-6	17.5	5	5	LC50
4-0/6-0	19.2	5	5	LC50
4-6/3-0	10.0	2.5	3	LC50
4-6/3-6	12.0	3	3	LC50
4-6/4-0	14.0	3	3	LC50
4-6/4-6	16.0	3	3	LC50
4-6/5-0	18.0	5	5	LC50
4-6/5-6	20.0	5	5	LC50
4-6/6-0	22.0	5	5	LC50

Miscellaneous Formulas

VISIBLE GLASS	Width = Frame - 5-7/16" Height = Frame - 5-7/16"
ACTUAL GLASS	Width = Frame - 4-3/8" Height = Frame - 4-3/8"

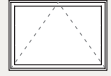
(1) Maximum performance when glazed with the appropriate glass thickness.

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



DESIGN DATA

Large Awning Vent and Fixed



AWNING

VENT AND FIXED UNITS (LARGE AWNING)

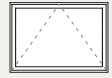
Unit	Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade	
			Annealed	Tempered	Vent	Fixed
2-6/2-6	1.2	4.0	2.5	3	LC50	LC50
2-6/3-0	1.2	5.0	2.5	3	LC50	LC50
2-6/3-6	1.2	6.0	2.5	3	LC50	LC50
2-6/4-0	1.2	7.0	2.5	3	LC50	LC50
2-6/4-6	1.2	8.0	2.5	3	LC50	LC50
2-6/5-0	1.2	9.0	2.5	3	LC50	LC50
3-0/2-6	1.5	5.0	2.5	3	LC50	LC50
3-0/3-0	1.5	6.2	2.5	3	LC50	LC50
3-0/3-6	1.5	7.5	2.5	3	LC50	LC50
3-0/4-0	1.5	8.7	2.5	3	LC50	LC50
3-0/4-6	1.5	10.0	2.5	3	LC50	LC50
3-0/5-0	1.5	11.2	3	3	LC50	LC50
3-6/2-6	1.8	6.0	2.5	3	LC50	LC50
3-6/3-0	1.8	7.5	2.5	3	LC50	LC50
3-6/3-6	1.8	9.0	2.5	3	LC50	LC50
3-6/4-0	1.8	10.5	3	3	LC50	LC50
3-6/4-6	1.8	12.0	3	3	LC50	LC50
3-6/5-0	1.8	13.5	3	3	LC50	LC50
4-0/2-6	2.1	7.0	2.5	3	LC30	LC50
4-0/3-0	2.1	8.7	2.5	3	LC30	LC50
4-0/3-6	2.1	10.5	3	3	LC30	LC50
4-0/4-0	2.1	12.2	3	3	LC30	LC50
4-0/4-6	2.1	14.0	3	3	LC30	LC50
4-0/5-0	2.1	15.7	3	3	LC30	LC50
4-6/2-6	2.4	8.0	2.5	3	LC30	LC50
4-6/3-0	2.4	10.0	2.5	3	LC30	LC50
4-6/3-6	2.4	12.0	3	3	LC30	LC50
4-6/4-0	2.4	14.0	3	3	LC30	LC50
4-6/4-6	2.4	16.0	3	3	LC30	LC50
4-6/5-0	2.4	18.0	5	5	LC30	LC50
5-0/2-6	2.7	9.0	2.5	3	LC30	LC50
5-0/3-0	2.7	11.2	3	3	LC30	LC50
5-0/3-6	2.7	13.5	3	3	LC30	LC50
5-0/4-0	2.7	15.7	3	3	LC30	LC50
5-0/4-6	2.7	18.0	5	5	LC30	LC50
5-0/5-0	2.7	20.2	5	5	LC30	LC50

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

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



DETAILED PRODUCT DESCRIPTIONS



AWNING

FRAME

- Frame is Duracast® fiberglass composite – five-layer pultruded fiberglass material [with optional foam insulation¹], reinforced with a Pella® patented interlocking mat.
- Overall frame depth is 3-1/4".
- Nominal wall thickness of Duracast fiberglass composite members is .050" to .070" thick.
- Frame corners are mitered, joined and bonded with corner lock and injected polyurethane adhesive.
- Sill is fitted with weep valve assemblies.
- Jamb contains 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, reinforced with a Pella patented interlocking mat.
- All sash members have mitered corners bonded with corner lock and sealed with injected polyurethane adhesive.

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 interior².

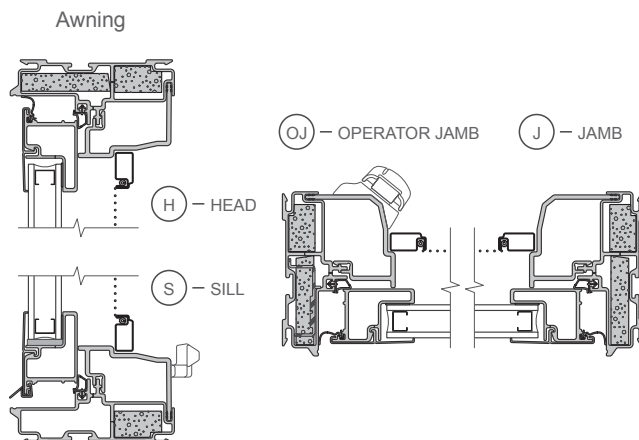
GLAZING SYSTEM

- Quality float glass complying with ASTM C 1036.
- 11/16" insulating glass [[annealed] [tempered]] [obscure³] [[clear] [Advanced] [SunDefense™] [AdvancedComfort] [NaturalSun] Low-E coated, with argon]] sealed and bonded to sash.
- High altitude glazing [with argon] available.

WEATHERSTRIPPING

- Dual weatherstripping.**
- Continuous, flexible ThermoPlastic Vulcanizate material in dual durometer design, compressed between frame and sash for positive seal on all four sides.
 - Secondary ThermoPlastic Vulcanizate leaf-type weatherstrip between edge of sash and frame.

FOAM INSULATION INSERTS,



HARDWARE

- Roto operator assembly
 - Steel worm gear sash operator with hardened gears.
 - Operator base is zinc die cast with painted finish.
 - Operator linkage is 300 series stainless steel.
 - Exposed fasteners are stainless steel.
 - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
 - Hinge slide and hinge arms are [Awning: 300 series stainless steel] [Large Awning: wash hinge].
- Finish of integrated fold-away crank is [[baked enamel [White] [Brown] [Tan] [Black] [Morning Sky Gray]] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze]].
- All vent units are available with operator located on the [Awning: left or right side as viewed from the exterior] [Large Awning: bottom center of the unit].
- SureLock® System – A single handle locking system operates positive-acting arms that reach out and pull the sash into a locked position: [Awning: one installed on units 29" and smaller frame width, two unison operating locks installed on units over 29" frame width] [Large Awning: one installed on units with frame heights 41" and less, two unison operating locks installed on units over 41" frame height].
- Lock handle finish is [[baked enamel [White] [Brown] [Tan] [Black] [Morning Sky Gray]] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze]].

OPTIONAL PRODUCTS

Screens

- Conventional Black Vinyl-coated 18/16 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, color to match interior.

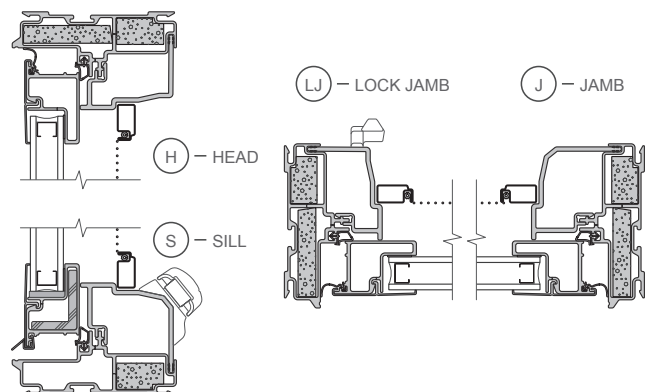
Grilles

- 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 hardware available for vent units in stainless steel; nominal 3" 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.

Large Awning



(1) Foam insulation inserts are not available with clear glazing.

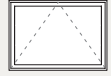
(2) Dual-color finish is not available on products with integral nailing fin.

(3) Obscure glazing is not available when AdvancedComfort Low-E coated IG is specified.



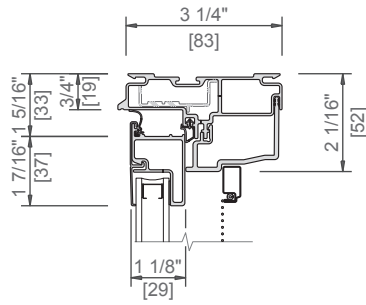
UNIT SECTIONS

Frame Types

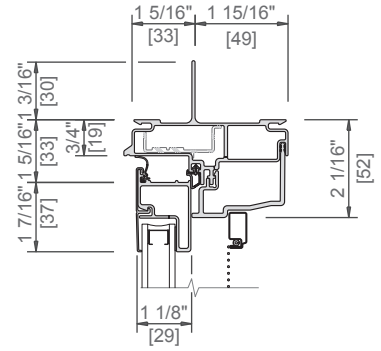


AWNING

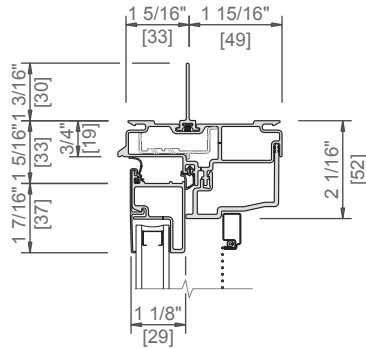
STANDARD
BLOCK FRAME



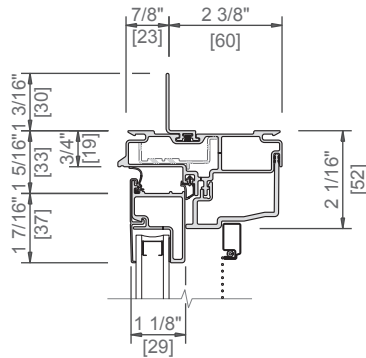
INTEGRAL
NAILING FIN



STANDARD
BLOCK FRAME
with STANDARD FIN



STANDARD
BLOCK FRAME
with OFF SET FIN



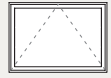
Scale 3" = 1' 0"

All dimensions are approximate.

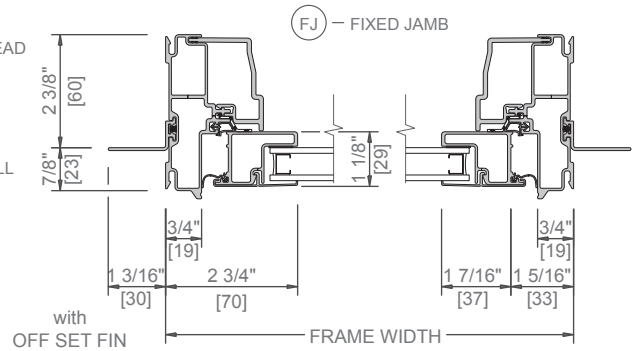
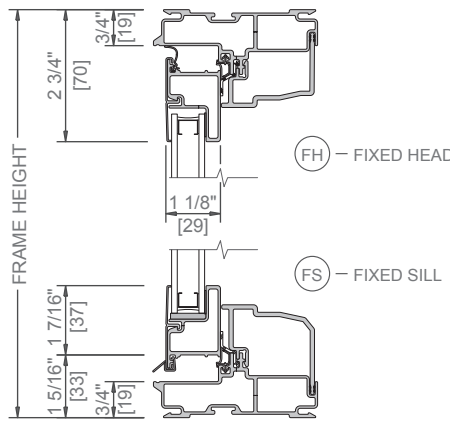
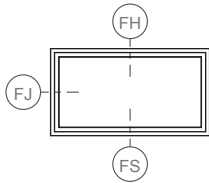
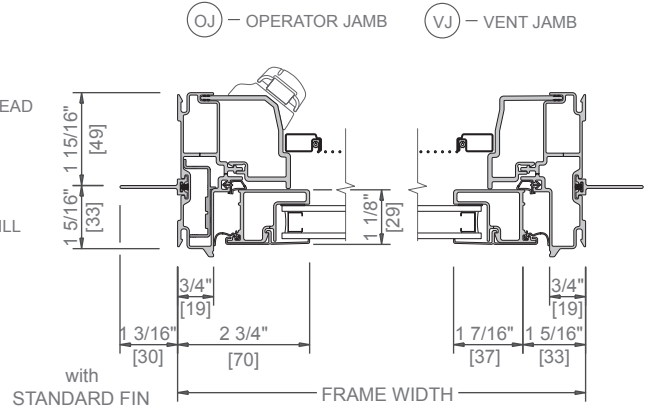
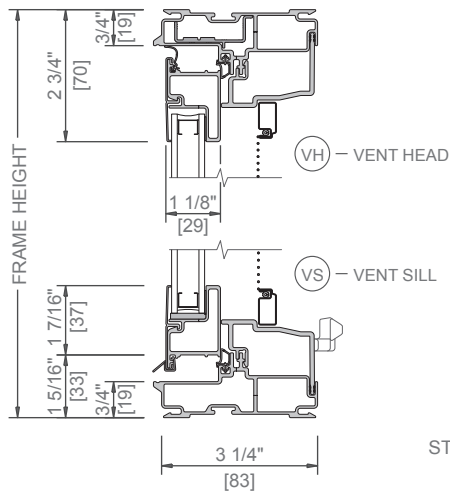
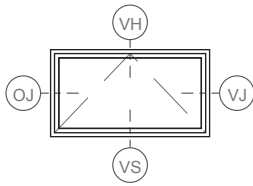


UNIT SECTIONS

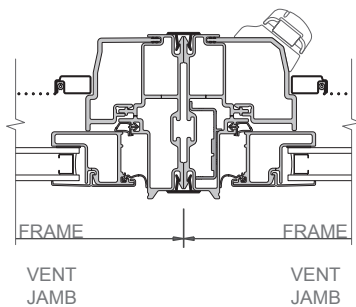
Block Frame Vent



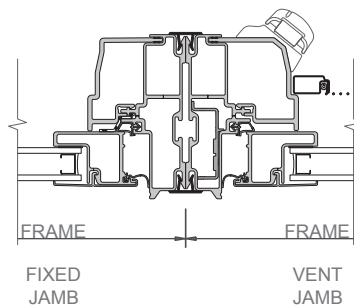
AWNING



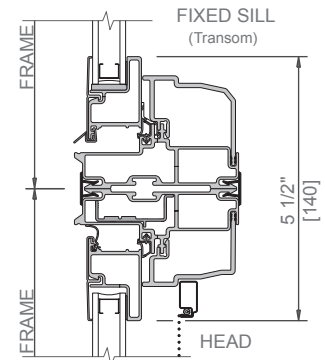
COMBINATION



VERTICAL JOINING MULLION



VERTICAL JOINING MULLION



HORIZONTAL JOINING MULLION

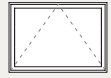
Scale 3" = 1' 0"

All dimensions are approximate.

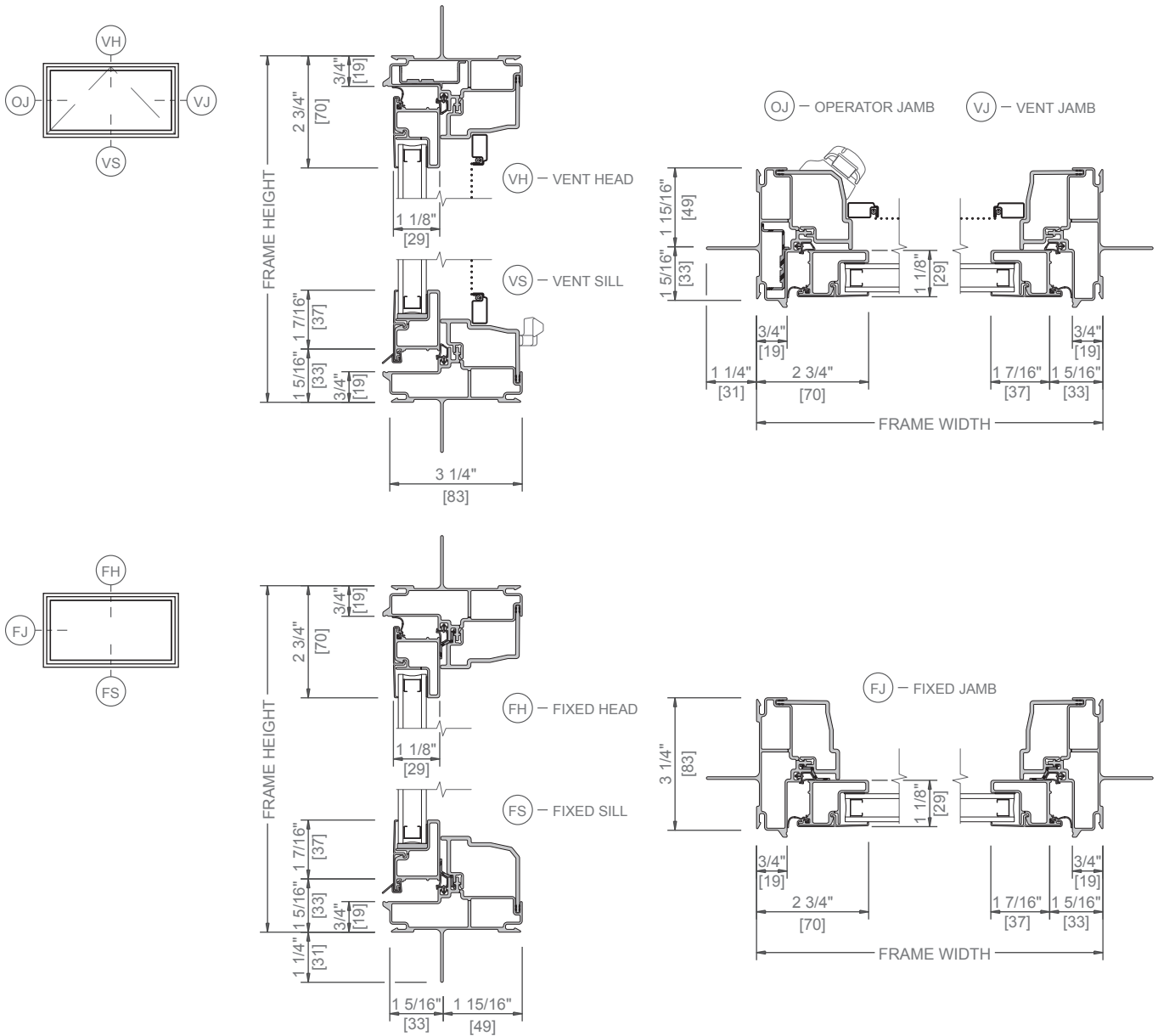


UNIT SECTIONS

Integral Nailing Fin



AWNING

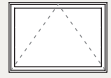


Scale 3" = 1' 0"
 All dimensions are approximate.

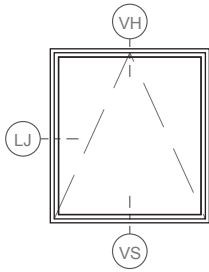


UNIT SECTIONS

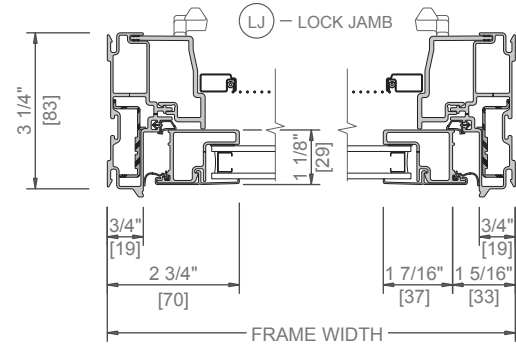
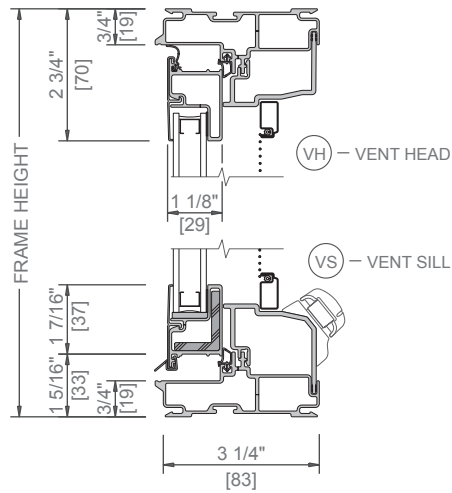
Large Awning Block Frame and Integral Nailing Fin



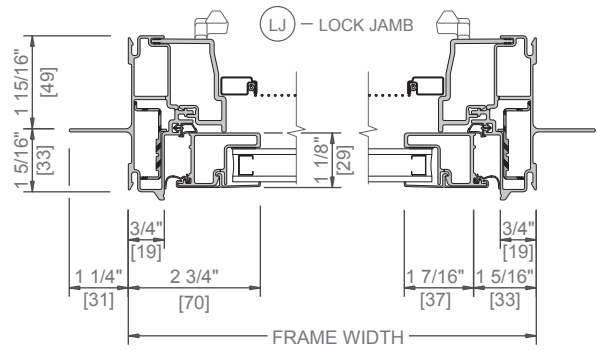
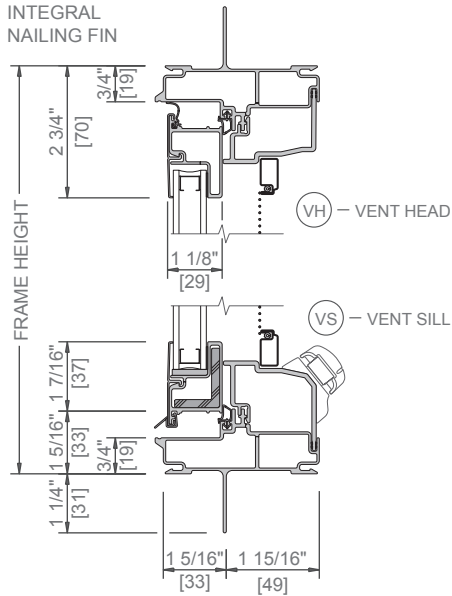
AWNING



STANDARD
BLOCK FRAME



INTEGRAL
NAILING FIN



Scale 3" = 1' 0"

All dimensions are approximate.