

AWNING

## SECTION DIRECTORY

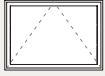
**General Information**

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**Pella® 350 Series Awning**

## Glazing Performance

11/16" Insulating Glass with 3mm Glass .....	V350-AW-5
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Triple-Pane Insulating Glass .....	V350-AW-10
11/16" Insulating Glass - Tinted Glass .....	V350-AW-11
11/16" Insulating Glass with Structural Performance Upgrade .....	V350-AW-13
1" Insulating Glass and Triple-Pane with Structural Performance Upgrade .....	V350-AW-14
Tinted Glass Glass with Structural Performance Upgrade .....	V350-AW-15
3-1/4" Pocket Replacement	
11/16" Insulating Glass with 3mm Glass .....	V350-AW-16
11/16" Insulating Glass with 3mm/5mm Glass .....	V350-AW-17
1" Insulating Glass with 5mm Glass .....	V350-AW-18
Triple-Pane Insulating Glass .....	V350-AW-19
11/16" Insulating Glass - Tinted Glass .....	V350-AW-20
1" Insulating Glass - Tinted Glass .....	V350-AW-21
11/16" Insulating Glass with Structural Performance Upgrade .....	V350-AW-22
1" IG and Triple-Pane Insulating Glass with Structural Performance Upgrade .....	V350-AW-23
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Hurricanesield® impact-resistant glazing	
1" Insulating Glass .....	V350-AW-25
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BRAND SUMMARY

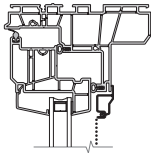


Pella® 350 Series Awning windows feature extruded, rigid PVC (polyvinyl chloride) frames and sash with heat-fused mitered corners for a fully welded corner assembly. The SmoothSeam™ welded corners on the interior of the sash are virtually invisible. Awning Windows meet industry standards for water infiltration 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



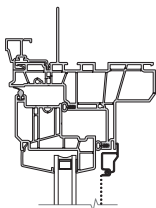
3-1/4" Block Pocket Install



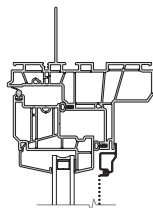
NAIL FIN FRAME DESIGN

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

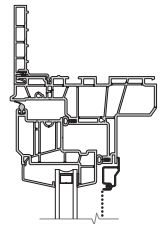


Without J-Channel

DOUBLE-WALL FLUSH FLANGE

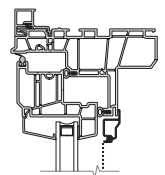
Replacement Frame Design

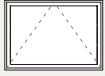
- The flush flange frame allows for easy replacement of old aluminum or steel frame windows without removing the existing frame head or jambs - typically used with stucco exteriors in southwest arid climates.
- The frame depth is 4-1/2" (overall wall depth of 4-1/16") includes interior accessory groove.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





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## PRODUCT SELECTION GUIDE

### Size and Performance Data



SIZES	
Standard Sizes	S
Special Sizes Available Built on 1/8" Increments	O
FRAMES	
Nail Fin	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	
Standard Performance	
Meets or Exceeds AAMA/WDMA Ratings	LC-PG40 Hallmark Certified
Air Infiltration (cfm/ft <sup>2</sup> of frame @ 1.57 psf wind pressure.)	0.05
Design Pressure	40 psf
Water Penetration Resistance	6.06 psf
Performance Upgrade	
Meets or Exceeds AAMA/WDMA Ratings	LC-PG55 to LC-PG60 Hallmark Certified
Air Infiltration (cfm/ft <sup>2</sup> of frame @ 1.57 psf wind pressure.)	0.05
Design Pressure	55-60 psf
Water Penetration Resistance	9.20 psf
Other Performance Criteria	
Forced Entry Resistance (Minimum Security Grade) <sub>2</sub>	10-40
Maximum Operating Force (lbs) (Initiate Motion/Maintain Motion)	15/6

### Sound Transmission Class and Outdoor-Indoor Transmission Class

Frame Size Tested <sub>3</sub>	Glazing System				STC Rating	OITC Rating
	Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
<b>AWNING - DUAL PANE INSULATING GLASS</b>						
60" x 24"	11/16"	3mm	3mm	–	30	24
60" x 24"	11/16"	3mm	5mm	–	33	28
<b>AWNING - NON-IMPACT LAMINATED INSULATING GLASS</b>						
60" x 24"	1"	3mm	7mm PVB	–	36	29
60" x 24"	1"	5mm	7mm PVB	–	37	29
<b>AWNING - HURRICANESHIELD IMPACT-RESISTANT LAMINATED INSULATING GLASS</b>						
60" x 24"	1"	3mm	8.6mm PVB	–	36	28
60" x 24"	1"	5mm	8.6mm PVB	–	38	30
<b>AWNING - TRIPLE-PANE INSULATING GLASS</b>						
60" x 24"	1-1/4"	3mm	3mm	3mm	29	24

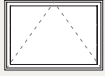
S = Standard; O = Optional; (–) = Not Available

(1) Published performance data is for single unit only. 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.

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

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



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## 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 <sub>1</sub>	O
Gray Low-E <sub>1</sub>	O
Bronze-tinted Advanced Low-E <sub>1</sub>	O

##### Additional Glazing Options

Annealed glass	S
Tempered glass	O
Obscure glass <sub>2</sub>	O
Noise reduction glass (STC 3mm/5mm combination) <sub>1</sub>	O
Noise Reduction laminated glass (non-impact) <sub>1</sub>	O

##### Gas Fill / High Altitude

Argon	S
High altitude	O
High altitude with argon <sub>1</sub>	O

#### SASH

Foam Insulation	O
Performance Upgrade	O

#### 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

#### 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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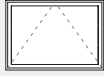
##### Simulated-Divided-Light Grilles<sub>1</sub> (without spacer)

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 <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
VENT										N	NC	SC	S	1	2	3	
11/16"	Advanced Low-E IG	PEL-N-187-00006-00001	3	3	air	0.28	0.24	44	57					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00130-00001				0.29	0.21	39	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00250-00001				0.28	0.21	39	57					17			
11/16"	Advanced Low-E IG	PEL-N-187-00044-00001	3	3	argon	0.25	0.23	44	61					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00164-00001				0.26	0.21	39	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00282-00001				0.25	0.21	39	61					21			
11/16"	NaturalSun Low-E IG	PEL-N-187-00007-00001	3	3	air	0.29	0.43	49	56					28			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00131-00001				0.30	0.39	44	56					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00251-00001				0.29	0.39	44	56					26			
11/16"	NaturalSun Low-E IG	PEL-N-187-00045-00001	3	3	argon	0.26	0.43	49	60					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00165-00001				0.27	0.39	44	60					28			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00283-00001				0.26	0.39	44	60					30			
11/16"	SunDefense™ Low-E IG	PEL-N-187-00008-00001	3	3	air	0.28	0.18	40	57								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00132-00001				0.29	0.16	36	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00252-00001				0.28	0.16	36	57								
11/16"	SunDefense Low-E IG	PEL-N-187-00046-00001	3	3	argon	0.25	0.17	40	61					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00166-00001				0.26	0.16	36	61					16			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00284-00001				0.25	0.16	36	61					18			
VENT - WITH FOAM INSERTS																	
11/16"	Advanced Low-E IG	PEL-N-187-00078-00001	3	3	air	0.28	0.24	44	57					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00198-00001				0.29	0.21	39	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00310-00001				0.28	0.21	39	57					17			
11/16"	Advanced Low-E IG	PEL-N-187-00104-00001	3	3	argon	0.25	0.23	44	61					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00224-00001				0.26	0.21	39	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00330-00001				0.26	0.21	39	61					19			
11/16"	NaturalSun Low-E IG	PEL-N-187-00079-00001	3	3	air	0.29	0.43	49	56					28			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00199-00001				0.30	0.39	44	56					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00311-00001				0.29	0.39	44	56					26			
11/16"	NaturalSun Low-E IG	PEL-N-187-00105-00001	3	3	argon	0.26	0.43	49	60					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00225-00001				0.26	0.39	44	60					30			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00331-00001				0.26	0.39	44	60					30			
11/16"	SunDefense™ Low-E IG	PEL-N-187-00080-00001	3	3	air	0.28	0.18	40	57								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00200-00001				0.29	0.16	36	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00312-00001				0.28	0.16	36	57								
11/16"	SunDefense Low-E IG	PEL-N-187-00106-00001	3	3	argon	0.25	0.17	40	61					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00226-00001				0.25	0.16	36	61					18			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00332-00001				0.25	0.16	36	61					18			

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

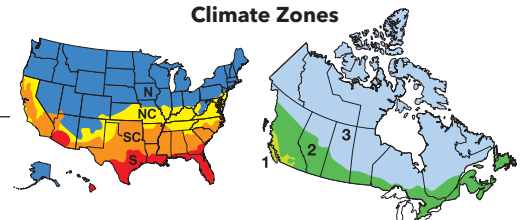
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

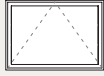
(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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](http://www.energystar.gov) for Energy Star guidelines.

Climate Zones





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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 <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
										N	NC	SC	S				
11/16"	Advanced Low-E IG	PEL-N-187-00011-00001	3	5	air	0.30	0.23	43	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00135-00001				0.32	0.21	39	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00255-00001				0.30	0.21	39	54								
11/16"	Advanced Low-E IG	PEL-N-187-00049-00001	3	5	argon	0.26	0.23	43	58					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00169-00001				0.28	0.21	39	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00287-00001				0.26	0.21	39	58					19			
11/16"	NaturalSun Low-E IG	PEL-N-187-00012-00001	3	5	air	0.30	0.41	49	54					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00136-00001				0.32	0.37	44	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00256-00001				0.30	0.37	44	54								
11/16"	NaturalSun Low-E IG	PEL-N-187-00050-00001	3	5	argon	0.27	0.41	49	58					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00170-00001				0.29	0.38	44	58					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00288-00001				0.27	0.38	44	58					28			
11/16"	SunDefense™ Low-E IG	PEL-N-187-00013-00001	3	5	air	0.29	0.18	40	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00137-00001				0.32	0.16	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00257-00001				0.29	0.16	36	54								
11/16"	SunDefense Low-E IG	PEL-N-187-00051-00001	3	5	argon	0.26	0.18	40	58					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00171-00001				0.28	0.16	36	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00289-00001				0.26	0.16	36	58					16			
<b>VENT - WITH FOAM INSERTS</b>																	
11/16"	Advanced Low-E IG	PEL-N-187-00083-00001	3	5	air	0.30	0.23	43	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00203-00001				0.32	0.21	39	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00315-00001				0.30	0.21	39	54								
11/16"	Advanced Low-E IG	PEL-N-187-00109-00001	3	5	argon	0.26	0.23	43	58					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00229-00001				0.28	0.21	39	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00335-00001				0.28	0.21	39	58								
11/16"	NaturalSun Low-E IG	PEL-N-187-00084-00001	3	5	air	0.30	0.41	49	54					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00204-00001				0.32	0.37	44	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00316-00001				0.30	0.37	44	54								
11/16"	NaturalSun Low-E IG	PEL-N-187-00110-00001	3	5	argon	0.27	0.41	48	58					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00230-00001				0.29	0.38	44	58					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00336-00001				0.29	0.38	44	58					25			
11/16"	SunDefense™ Low-E IG	PEL-N-187-00085-00001	3	5	air	0.29	0.18	40	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00205-00001				0.32	0.16	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00317-00001				0.29	0.16	36	54								
11/16"	SunDefense Low-E IG	PEL-N-187-00111-00001	3	5	argon	0.26	0.17	39	58					17			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00231-00001				0.28	0.16	36	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00337-00001				0.28	0.16	36	58								

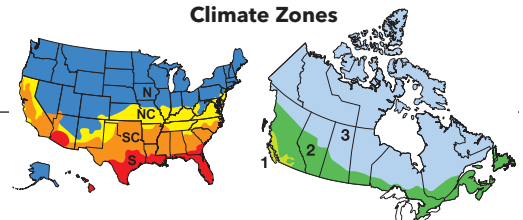
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 SHGC = Solar Heat Gain Coefficient  
 VLT % = Visible Light Transmission  
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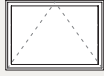
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### GLAZING PERFORMANCE - TOTAL UNIT

1" Insulating Glass with 5mm Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown									
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>					
										Zone				ER	Zone				
VENT										N	NC	SC	S				1	2	3
1"	Advanced Low-E IG	PEL-N-187-00016-00001	5	5	air	0.28	0.23	43	54					18					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00140-00001				0.28	0.21	38	54					17					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00260-00001				0.28	0.21	38	54					17					
1"	Advanced Low-E IG	PEL-N-187-00054-00001	5	5	argon	0.25	0.23	43	57					22					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00174-00001				0.25	0.18	31	57					19					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00292-00001				0.25	0.21	38	57					21					
1"	NaturalSun Low-E IG	PEL-N-187-00017-00001	5	5	air	0.29	0.41	48	54					27					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00141-00001				0.29	0.34	41	54										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00261-00001				0.29	0.37	43	54					25					
1"	NaturalSun Low-E IG	PEL-N-187-00055-00001	5	5	argon	0.26	0.41	48	57					31					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00175-00001				0.26	0.35	41	57					27					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00293-00001				0.26	0.37	43	57					29					
1"	SunDefense™ Low-E IG	PEL-N-187-00018-00001	5	5	air	0.28	0.18	39	54										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00142-00001				0.28	0.18	30	54										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00262-00001				0.28	0.16	36	54										
1"	SunDefense Low-E IG	PEL-N-187-00056-00001	5	5	argon	0.25	0.17	39	58					18					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00176-00001				0.25	0.18	30	58					19					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00294-00001				0.25	0.16	36	58					18					

VENT - WITH FOAM INSERTS										N	NC	SC	S				1	2	3
1"	Advanced Low-E IG	PEL-N-187-00088-00001	5	5	air	0.28	0.23	43	54					18					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00208-00001				0.28	0.21	38	54					17					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00320-00001				0.28	0.21	38	54					17					
1"	Advanced Low-E IG	PEL-N-187-00114-00001	5	5	argon	0.25	0.23	43	57					22					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00234-00001				0.25	0.21	38	57					21					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00340-00001				0.25	0.21	38	57					21					
1"	NaturalSun Low-E IG	PEL-N-187-00089-00001	5	5	air	0.29	0.41	48	54					27					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00209-00001				0.29	0.37	43	54					25					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00321-00001				0.29	0.37	43	54					25					
1"	NaturalSun Low-E IG	PEL-N-187-00115-00001	5	5	argon	0.26	0.41	48	57					31					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00235-00001				0.26	0.37	43	57					29					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00341-00001				0.26	0.37	43	57					29					
1"	SunDefense™ Low-E IG	PEL-N-187-00090-00001	5	5	air	0.28	0.18	39	54										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00210-00001				0.28	0.16	36	54										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00322-00001				0.28	0.16	36	54										
1"	SunDefense Low-E IG	PEL-N-187-00116-00001	5	5	argon	0.25	0.17	39	58					18					
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00236-00001				0.25	0.16	36	58					18					
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00342-00001				0.25	0.16	36	58					18					

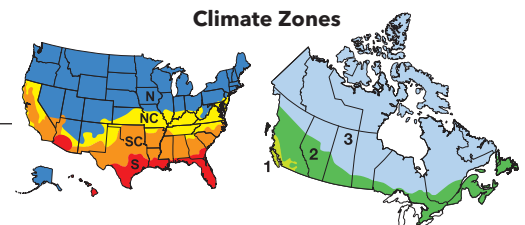
R-Value = 1/U-Factor  
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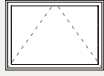
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Non-Impact Laminated



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
VENT										N	NC	SC	S	1 2 3			
1"	Advanced Low-E PVB IG	PEL-N-187-00825-00001	3	7	air	0.28	0.23	0.43	56					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00839-00001				0.28	0.21	0.38	58					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00867-00001				0.28	0.21	0.38	58					17			
1"	Advanced Low-E PVB IG	PEL-N-187-00881-00001	5	7	air	0.28	0.23	0.43	58					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00895-00001				0.28	0.21	0.38	58					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00923-00001				0.28	0.21	0.38	58					17			
1"	Advanced Low-E PVB IG	PEL-N-187-00818-00001	3	7	argon	0.25	0.23	0.43	59					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00832-00001				0.25	0.21	0.39	59					21			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00860-00001				0.25	0.21	0.39	59					21			
1"	Advanced Low-E PVB IG	PEL-N-187-00874-00001	5	7	argon	0.25	0.23	0.43	62					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00888-00001				0.25	0.21	0.38	62					21			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00916-00001				0.25	0.21	0.38	62					21			
1"	NaturalSun Low-E PVB IG	PEL-N-187-00828-00001	3	7	air	0.28	0.40	0.49	55					28			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00842-00001				0.28	0.36	0.44	55					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00870-00001				0.28	0.36	0.44	55					25			
1"	NaturalSun Low-E PVB IG	PEL-N-187-00821-00001	3	7	argon	0.26	0.40	0.49	58					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00835-00001				0.26	0.36	0.44	58					28			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00863-00001				0.26	0.36	0.44	58					28			
1"	NaturalSun Low-E PVB IG	PEL-N-187-00884-00001	5	7	air	0.28	0.39	0.48	57					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00898-00001				0.28	0.35	0.44	57					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00926-00001				0.28	0.35	0.44	57					25			
1"	NaturalSun Low-E PVB IG	PEL-N-187-00877-00001	5	7	argon	0.26	0.39	0.48	61					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00891-00001				0.26	0.35	0.44	61					27			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00919-00001				0.26	0.35	0.44	61					27			
1"	SunDefense™ Low-E PVB IG	PEL-N-187-00827-00001	3	7	air	0.27	0.17	0.40	56					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00841-00001				0.27	0.16	0.36	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00869-00001				0.27	0.16	0.36	56								
1"	SunDefense Low-E PVB IG	PEL-N-187-00820-00001	3	7	argon	0.24	0.17	0.40	59					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00834-00001				0.24	0.16	0.36	59					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00862-00001				0.24	0.16	0.36	59					19			
1"	SunDefense™ Low-E PVB IG	PEL-N-187-00883-00001	5	7	air	0.27	0.18	0.40	58					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00897-00001				0.27	0.16	0.36	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00925-00001				0.27	0.16	0.36	58								
1"	SunDefense Low-E PVB IG	PEL-N-187-00876-00001	5	7	argon	0.25	0.17	0.40	62					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00890-00001				0.25	0.16	0.36	62					18			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00918-00001				0.25	0.16	0.36	62					18			

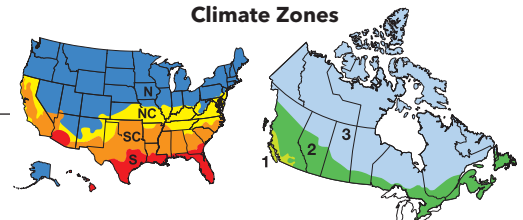
R-Value = 1/U-Factor  
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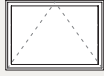
(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Non-Impact Laminated



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown		
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.		Canada <sub>2</sub>
										Zone	ER	Zone
<b>VENT – WITH FOAM INSERTS</b>												
1"	Gray Advanced Low-E PVB IG	PEL-N-187-00824-00001	3	7	air	0.28	0.16	0.25	55			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00838-00001				0.28	0.15	0.22	55			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00866-00001				0.28	0.15	0.22	55			
1"	Gray Advanced Low-E PVB IG	PEL-N-187-00817-00001	3	7	argon	0.25	0.16	0.25	59		18	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00831-00001				0.25	0.14	0.22	59		17	
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00859-00001				0.25	0.14	0.22	59		17	
1"	Gray Advanced Low-E PVB IG	PEL-N-187-00880-00001	5	7	air	0.28	0.16	0.24	57			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00894-00001				0.28	0.15	0.22	57			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00922-00001				0.28	0.15	0.22	57			
1"	Gray Advanced Low-E PVB IG	PEL-N-187-00873-00001	5	7	argon	0.25	0.15	0.24	61		17	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00887-00001				0.25	0.14	0.22	61		17	
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00915-00001				0.25	0.14	0.22	61		17	
1"	Bronze Advanced Low-E PVB IG	PEL-N-187-00826-00001	3	7	air	0.28	0.22	0.24	56		17	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00840-00001				0.28	0.20	0.21	56		16	
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00868-00001				0.28	0.20	0.21	56		16	
1"	Bronze Advanced Low-E PVB IG	PEL-N-187-00819-00001	3	7	argon	0.25	0.22	0.24	59		21	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00833-00001				0.25	0.20	0.21	59		20	
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00861-00001				0.25	0.20	0.21	59		20	
1"	Bronze Advanced Low-E PVB IG	PEL-N-187-00882-00001	5	7	air	0.28	0.22	0.23	58		17	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00896-00001				0.28	0.20	0.21	58		16	
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00924-00001				0.28	0.20	0.21	58		16	
1"	Bronze Advanced Low-E PVB IG	PEL-N-187-00875-00001	5	7	argon	0.25	0.22	0.23	62		21	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00889-00001				0.25	0.20	0.21	62		20	
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00917-00001				0.25	0.20	0.21	62		20	

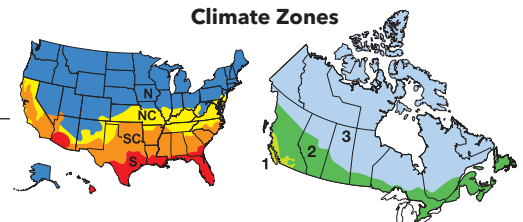
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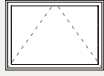
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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AWNING

## GLAZING PERFORMANCE - TOTAL UNIT

### Triple-Pane Insulating Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
											Zone				ER	Zone		
VENT											N	NC	SC	S	1 2 3			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-187-00023-00001	3	3	3	air	0.19	0.20	34	64					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00147-00001					0.20	0.18	30	64					25			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-187-00061-00001	3	3	3	argon	0.17	0.20	34	74					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00181-00001					0.17	0.18	30	74					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00024-00001	3	3	3	air	0.23	0.37	45	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00148-00001					0.24	0.34	41	66					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00062-00001	3	3	3	argon	0.21	0.37	45	68					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00182-00001					0.22	0.34	41	68					32			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-187-00149-00001	5	5	5	air	0.23	0.36	44	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00025-00001					0.24	0.32	39	65					28			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-187-00183-00001	5	5	5	argon	0.21	0.36	44	67					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00063-00001					0.21	0.32	39	67					32			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00150-00001	5	5	5	air	0.19	0.19	33	69					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00026-00001					0.20	0.18	30	69					25			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00184-00001	5	5	5	argon	0.17	0.19	33	72					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00064-00001					0.17	0.18	30	72					29			
VENT - WITH FOAM INSERTS											N	NC	SC	S	1 2 3			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-187-00095-00001	3	3	3	air	0.19	0.20	34	64					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00215-00001					0.20	0.18	30	64					25			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-187-00121-00001	3	3	3	argon	0.17	0.20	34	74					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00241-00001					0.17	0.18	30	74					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00096-00001	3	3	3	air	0.23	0.37	45	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00216-00001					0.24	0.34	41	66					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00122-00001	3	3	3	argon	0.21	0.37	45	68					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00242-00001					0.21	0.34	41	68					33			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-187-00097-00001	5	5	5	air	0.19	0.19	33	69					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00217-00001					0.20	0.18	30	69					25			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-187-00123-00001	5	5	5	argon	0.17	0.19	33	73					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00243-00001					0.17	0.18	30	73					29			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00098-00001	5	5	5	air	0.23	0.36	44	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00218-00001					0.24	0.32	39	65					28			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00124-00001	5	5	5	argon	0.21	0.36	44	67					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00244-00001					0.21	0.32	39	68					32			

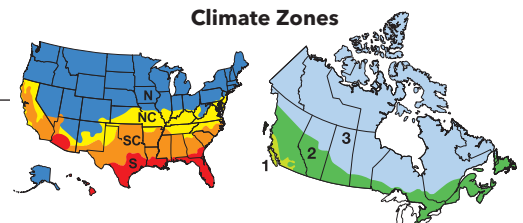
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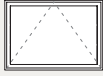
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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

11/16" Insulating Glass – Tinted Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
TINTED GLAZING										N	NC	SC	S	1	2	3	
11/16"	Bronze Advanced Low-E IG	PEL-N-187-00010-00001	3	3	air	0.28	0.23	32	57	Blue	Yellow	Orange	Red	18	Green		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00134-00001				0.29	0.21	29	57	Blue	Yellow	Orange	Red				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00254-00001				0.28	0.21	29	57	Blue	Yellow	Orange	Red	17	Green		
11/16"	Bronze Advanced Low-E IG	PEL-N-187-00048-00001	3	3	argon	0.25	0.23	32	61	Blue	Yellow	Orange	Red	22	Green	Green	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00168-00001				0.26	0.21	29	61	Blue	Yellow	Orange	Red	19	Green		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00286-00001				0.25	0.21	29	61	Blue	Yellow	Orange	Red	21	Green	Green	
11/16"	Gray Low-E IG	PEL-N-187-00009-00001	3	3	air	0.28	0.17	25	56	Blue	Yellow	Orange	Red				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00133-00001				0.29	0.15	22	56	Blue	Yellow	Orange	Red				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00253-00001				0.28	0.15	22	56	Blue	Yellow	Orange	Red				
11/16"	Gray Low-E IG	PEL-N-187-00047-00001	3	3	argon	0.25	0.16	25	60	Blue	Yellow	Orange	Red	18	Green		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00167-00001				0.26	0.15	22	60	Blue	Yellow	Orange	Red	16	Green		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00285-00001				0.25	0.15	22	60	Blue	Yellow	Orange	Red	17	Green		
TINTED GLAZING – WITH FOAM INSERTS										N	NC	SC	S	1	2	3	
11/16"	Bronze Advanced Low-E IG	PEL-N-187-00082-00001	3	3	air	0.28	0.23	32	57	Blue	Yellow	Orange	Red	18	Green		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00202-00001				0.29	0.21	29	57	Blue	Yellow	Orange	Red				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00314-00001				0.28	0.21	29	57	Blue	Yellow	Orange	Red	17	Green		
11/16"	Bronze Advanced Low-E IG	PEL-N-187-00108-00001	3	3	argon	0.25	0.21	28	61	Blue	Yellow	Orange	Red	21	Green	Green	
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00228-00001				0.26	0.21	29	61	Blue	Yellow	Orange	Red	19	Green		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00334-00001				0.26	0.21	29	61	Blue	Yellow	Orange	Red	19	Green		
11/16"	Gray Low-E IG	PEL-N-187-00081-00001	3	3	air	0.28	0.17	25	56	Blue	Yellow	Orange	Red				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00201-00001				0.29	0.15	22	56	Blue	Yellow	Orange	Red				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00313-00001				0.28	0.15	22	56	Blue	Yellow	Orange	Red				
11/16"	Gray Low-E IG	PEL-N-187-00107-00001	3	3	argon	0.25	0.16	24	60	Blue	Yellow	Orange	Red	18	Green		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00227-00001				0.26	0.15	22	60	Blue	Yellow	Orange	Red	16	Green		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00333-00001				0.26	0.15	22	60	Blue	Yellow	Orange	Red	16	Green		
1"	SunDefense™ Low-E IG	PEL-N-187-00090-00001	5	5	air	0.28	0.18	39	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00210-00001				0.28	0.16	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00322-00001				0.28	0.16	36	54								
1"	SunDefense Low-E IG	PEL-N-187-00116-00001	5	5	argon	0.25	0.17	39	58								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00236-00001				0.25	0.16	36	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00342-00001				0.25	0.16	36	58								

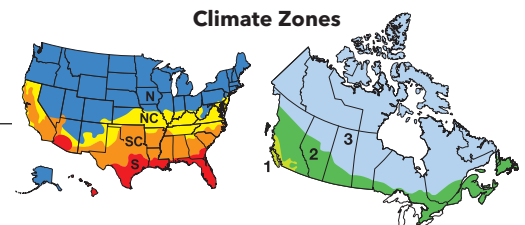
R-Value = 1/U-Factor  
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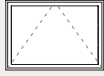
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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AWNING

## GLAZING PERFORMANCE - TOTAL UNIT

### 1" Insulating Glass – Tinted Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>		
										Zone				ER	Zone	
TINTED GLAZING										N	NC	SC	S	1	2	3
1"	Bronze Advanced Low-E IG	PEL-N-187-00020-00001	5	5	air	0.28	0.21	28	54					17		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00144-00001				0.28	0.18	3	54							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00264-00001				0.28	0.19	25	54					16		
1"	Bronze Advanced Low-E IG	PEL-N-187-00058-00001	5	5	argon	0.25	0.20	28	57					20		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00178-00001				0.25	0.19	25	57					19		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00296-00001				0.25	0.19	25	57					19		
1"	Gray Low-E IG	PEL-N-187-00019-00001	5	5	air	0.28	0.16	24	54							
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00143-00001				0.28	0.15	41	54							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00263-00001				0.28	0.15	22	54							
1"	Gray Low-E IG with argon	PEL-N-187-00057-00001	5	5	argon	0.26	0.16	24	57					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00177-00001				0.26	0.14	41	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00295-00001				0.26	0.14	22	57							
TINTED GLAZING – WITH FOAM INSERTS										N	NC	SC	S	1	2	3
1"	Bronze Advanced Low-E IG	PEL-N-187-00092-00001	5	5	air	0.28	0.21	28	54					17		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00212-00001				0.28	0.19	25	54					16		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00324-00001				0.28	0.19	25	54					16		
1"	Bronze Advanced Low-E IG	PEL-N-187-00118-00001	5	5	argon	0.25	0.20	28	57					20		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00238-00001				0.25	0.19	25	57					19		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00344-00001				0.25	0.19	25	57					19		
1"	Gray Low-E IG	PEL-N-187-00091-00001	5	5	air	0.28	0.16	24	54							
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00211-00001				0.28	0.15	22	54							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00323-00001				0.28	0.15	22	54							
1"	Gray Low-E IG	PEL-N-187-00117-00001	5	5	argon	0.26	0.16	24	57					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00237-00001				0.26	0.14	22	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00343-00001				0.26	0.14	22	57							

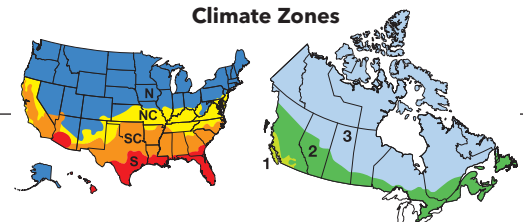
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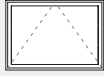
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AWNING

## GLAZING PERFORMANCE - TOTAL UNIT

11/16" Insulating Glass

Units with Structural Performance Upgrade



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown									
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>					
										Zone				ER	Zone				
										N	NC	SC	S				1	2	3
<b>VENT - 3MM GLASS</b>																			
11/16"	Advanced Low-E IG	PEL-N-187-00350-00001	3	3	air	0.28	0.24	44	57										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00474-00001				0.29	0.21	39	57										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00594-00001				0.28	0.21	39	57						17				
11/16"	Advanced Low-E IG	PEL-N-187-00388-00001	3	3	argon	0.25	0.23	44	61						22				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00508-00001				0.26	0.21	39	61						19				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00626-00001				0.25	0.21	39	61						21				
11/16"	NaturalSun Low-E IG	PEL-N-187-00351-00001	3	3	air	0.29	0.43	49	56						28				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00475-00001				0.30	0.39	44	56						25				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00595-00001				0.29	0.39	44	56						26				
11/16"	NaturalSun Low-E IG	PEL-N-187-00389-00001	3	3	argon	0.26	0.43	49	60						32				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00509-00001				0.27	0.39	44	60						28				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00627-00001				0.26	0.39	44	60						30				
11/16"	SunDefense™ Low-E IG	PEL-N-187-00352-00001	3	3	air	0.28	0.18	40	57										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00476-00001				0.29	0.16	36	57										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00596-00001				0.28	0.16	36	57										
11/16"	SunDefense Low-E IG	PEL-N-187-00390-00001	3	3	argon	0.25	0.17	40	61						18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00510-00001				0.26	0.16	36	61						16				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00628-00001				0.25	0.16	36	61						18				
<b>VENT - 3MM / 5MM GLASS</b>																			
11/16"	Advanced Low-E IG	PEL-N-187-00355-00001	3	5	air	0.30	0.23	43	54										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00479-00001				0.32	0.21	39	54										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00599-00001				0.30	0.21	39	54										
11/16"	Advanced Low-E IG	PEL-N-187-00393-00001	3	5	argon	0.26	0.23	43	58						20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00513-00001				0.28	0.21	39	58						17				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00631-00001				0.26	0.21	39	58						19				
11/16"	NaturalSun Low-E IG	PEL-N-187-00356-00001	3	5	air	0.30	0.41	49	54						26				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00480-00001				0.33	0.37	44	53										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00600-00001				0.30	0.37	44	54										
11/16"	NaturalSun Low-E IG	PEL-N-187-00394-00001	3	5	argon	0.27	0.41	49	58						30				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00514-00001				0.29	0.38	44	57						25				
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00632-00001				0.27	0.38	44	58						28				
11/16"	SunDefense™ Low-E IG	PEL-N-187-00357-00001	3	5	air	0.29	0.18	40	54										
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00481-00001				0.32	0.16	36	54										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00601-00001				0.29	0.16	36	54						13				
11/16"	SunDefense Low-E IG	PEL-N-187-00395-00001	3	5	argon	0.26	0.18	40	58						18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00515-00001				0.28	0.16	36	58										
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00633-00001				0.26	0.16	36	58						16				

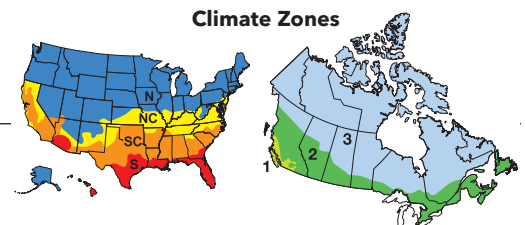
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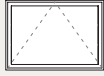
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AWNING

### GLAZING PERFORMANCE - TOTAL UNIT

1" Insulating Glass and Triple-Pane Insulating Glass  
Units with Structural Performance Upgrade



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
											Zone				ER	Zone		
VENT – WITH 1" IG											N	NC	SC	S	1 2 3			
1"	Advanced Low-E IG	PEL-N-187-00360-00001	5		5	air	0.28	0.23	43	54					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00484-00001					0.28	0.21	38	54					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00604-00001					0.28	0.21	38	54					17			
1"	Advanced Low-E IG	PEL-N-187-00398-00001	5		5	argon	0.25	0.23	43	57					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00518-00001					0.25	0.21	38	57					21			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00636-00001					0.25	0.21	38	57					21			
1"	NaturalSun Low-E IG	PEL-N-187-00361-00001	5		5	air	0.29	0.41	48	54					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00485-00001					0.29	0.37	43	54					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00605-00001					0.29	0.37	43	54					25			
1"	NaturalSun Low-E IG	PEL-N-187-00399-00001	5		5	argon	0.26	0.41	48	57					31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00519-00001					0.26	0.37	43	57					29			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00637-00001					0.26	0.37	43	57					29			
1"	SunDefense™ Low-E IG	PEL-N-187-00362-00001	5		5	air	0.28	0.18	39	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00486-00001					0.28	0.16	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00606-00001					0.28	0.16	36	54								
1"	SunDefense Low-E IG	PEL-N-187-00400-00001	5		5	argon	0.25	0.17	39	58					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00520-00001					0.25	0.16	36	58					18			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00638-00001					0.25	0.16	36	58					18			
VENT – WITH TRIPLE-PANE IG																		
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-187-00367-00001	3	3	3	air	0.20	0.20	34	64					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00491-00001					0.20	0.18	30	64					25			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-187-00405-00001	3	3	3	argon	0.17	0.20	34	74					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00525-00001					0.17	0.18	30	74					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00368-00001	3	3	3	air	0.23	0.37	45	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00492-00001					0.24	0.34	41	65					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00406-00001	3	3	3	argon	0.21	0.37	45	68					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00526-00001					0.22	0.34	41	68					32			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-187-00369-00001	5	5	5	air	0.20	0.19	33	69					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00493-00001					0.20	0.18	30	69					25			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-187-00407-00001	5	5	5	argon	0.17	0.19	33	72					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00527-00001					0.17	0.18	30	72					29			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00370-00001	5	5	5	air	0.23	0.36	44	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00494-00001					0.24	0.32	39	65					28			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-187-00408-00001	5	5	5	argon	0.21	0.36	44	67					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00528-00001					0.22	0.32	39	67					31			

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ER = Canadian Energy Rating

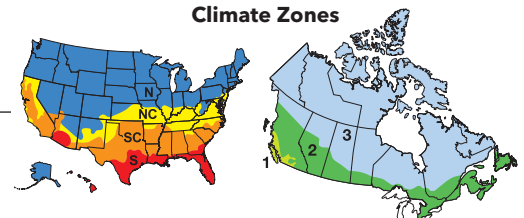
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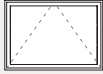
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Climate Zones







AWNING

## GLAZING PERFORMANCE - TOTAL UNIT

Tinted Glass

Units with Structural Performance Upgrade



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>		
										Zone				ER	Zone	
										N	NC	SC	S	1	2	3
<b>TINTED GLAZING – WITH 11/16" IG</b>																
11/16"	Bronze Advanced Low-E IG	PEL-N-187-00354-00001	3	3	air	0.28	0.23	32	57					18		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00478-00001				0.29	0.21	29	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00598-00001				0.28	0.21	29	57					17		
11/16"	Bronze Advanced Low-E IG	PEL-N-187-00392-00001	3	3	argon	0.25	0.23	32	61					22		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00512-00001				0.26	0.21	29	61					19		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00630-00001				0.25	0.21	29	61					21		
11/16"	Gray Low-E IG	PEL-N-187-00353-00001	3	3	air	0.28	0.17	25	56							
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00477-00001				0.29	0.15	22	56							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00597-00001				0.28	0.15	22	56							
11/16"	Gray Low-E IG	PEL-N-187-00391-00001	3	3	argon	0.26	0.16	25	60					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00511-00001				0.27	0.15	22	60							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00629-00001				0.26	0.15	22	60					16		
<b>TINTED GLAZING – WITH 1" IG</b>																
1"	Bronze Advanced Low-E IG	PEL-N-187-00364-00001	5	5	air	0.28	0.21	28	54					17		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00488-00001				0.28	0.19	25	54					16		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00608-00001				0.28	0.19	25	54					16		
1"	Bronze Advanced Low-E IG	PEL-N-187-00402-00001	5	5	argon	0.25	0.20	28	57					20		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00522-00001				0.25	0.19	25	57					19		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00640-00001				0.25	0.19	25	57					19		
1"	Gray Low-E IG	PEL-N-187-00363-00001	5	5	air	0.29	0.16	24	54							
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00487-00001				0.29	0.15	22	54							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00607-00001				0.29	0.15	22	54							
1"	Gray Low-E IG	PEL-N-187-00401-00001	5	5	argon	0.26	0.16	24	57					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00521-00001				0.26	0.14	22	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00639-00001				0.26	0.14	22	57							

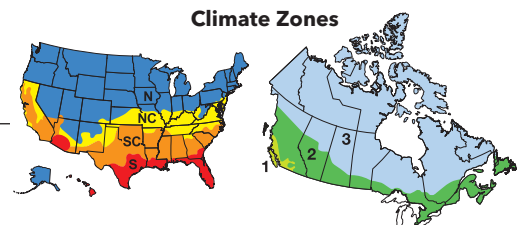
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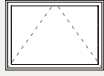
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(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.

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AWNING

**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 <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
										N	NC	SC	S				
<b>VENT</b>																	
11/16"	Advanced Low-E IG	PEL-N-189-00006-00001	3	3	air	0.28	0.24	44	57					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00110-00001				0.29	0.21	39	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00214-00001				0.28	0.22	39	57					17			
11/16"	Advanced Low-E IG	PEL-N-189-00032-00001	3	3	argon	0.25	0.23	44	61					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00136-00001				0.26	0.21	39	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00234-00001				0.25	0.21	39	61					21			
11/16"	NaturalSun Low-E IG	PEL-N-189-00007-00001	3	3	air	0.29	0.43	49	56					28			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00111-00001				0.30	0.37	44	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00215-00001				0.29	0.39	44	56					26			
11/16"	NaturalSun Low-E IG	PEL-N-189-00033-00001	3	3	argon	0.26	0.43	49	61					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00137-00001				0.27	0.39	44	61					28			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00235-00001				0.26	0.39	44	61					30			
11/16"	SunDefense™ Low-E IG	PEL-N-189-00008-00001	3	3	air	0.28	0.18	40	57								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00112-00001				0.29	0.16	36	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00216-00001				0.28	0.16	36	57								
11/16"	SunDefense Low-E IG	PEL-N-189-00034-00001	3	3	argon	0.25	0.18	40	61					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00138-00001				0.26	0.16	36	61					16			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00236-00001				0.25	0.16	36	61					18			
<b>VENT - WITH FOAM INSERTS</b>																	
11/16"	Advanced Low-E IG	PEL-N-189-00058-00001	3	3	air	0.28	0.24	44	57					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00162-00001				0.29	0.22	39	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00254-00001				0.28	0.22	39	57					17			
11/16"	Advanced Low-E IG	PEL-N-189-00084-00001	3	3	argon	0.25	0.23	44	61					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00188-00001				0.26	0.21	39	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00274-00001				0.26	0.21	39	61					19			
11/16"	NaturalSun Low-E IG	PEL-N-189-00059-00001	3	3	air	0.29	0.17	25	56					25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00163-00001				0.30	0.39	44	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00255-00001				0.29	0.39	44	56					26			
11/16"	NaturalSun Low-E IG	PEL-N-189-00085-00001	3	3	argon	0.26	0.43	49	61					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00189-00001				0.27	0.39	44	61					28			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00275-00001				0.27	0.39	44	61					28			
11/16"	SunDefense™ Low-E IG	PEL-N-189-00060-00001	3	3	air	0.28	0.23	32	57					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00164-00001				0.29	0.16	36	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00256-00001				0.28	0.16	36	57								
11/16"	SunDefense Low-E IG	PEL-N-189-00086-00001	3	3	argon	0.25	0.18	40	62					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00190-00001				0.26	0.16	36	61					16			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00276-00001				0.26	0.16	36	61					16			

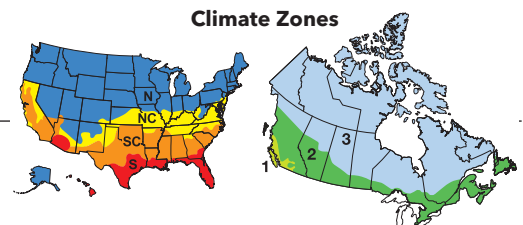
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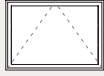
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AWNING

**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 <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
VENT										N	NC	SC	S				
11/16"	Advanced Low-E IG	PEL-N-189-00011-00001	3	5	air	0.30	0.23	43	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00115-00001				0.32	0.21	39	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00219-00001				0.30	0.21	39	54								
11/16"	Advanced Low-E IG	PEL-N-189-00037-00001	3	5	argon	0.26	0.23	43	58					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00141-00001				0.28	0.21	39	58					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00239-00001				0.26	0.21	39	58					19			
11/16"	NaturalSun Low-E IG	PEL-N-189-00012-00001	3	5	air	0.30	0.41	49	54					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00116-00001				0.32	0.37	44	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00220-00001				0.30	0.37	44	54								
11/16"	NaturalSun Low-E IG	PEL-N-189-00038-00001	3	5	argon	0.27	0.41	49	58					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00142-00001				0.29	0.38	44	58					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00240-00001				0.27	0.38	44	58					28			
11/16"	SunDefense™ Low-E IG	PEL-N-189-00013-00001	3	5	air	0.29	0.18	40	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00117-00001				0.32	0.16	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00221-00001				0.29	0.16	36	54								
11/16"	SunDefense Low-E IG	PEL-N-189-00039-00001	3	5	argon	0.26	0.18	40	58					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00143-00001				0.28	0.16	36	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00241-00001				0.26	0.16	36	58					16			
VENT - WITH FOAM INSERTS																	
11/16"	Advanced Low-E IG	PEL-N-189-00063-00001	3	5	air	0.30	0.23	43	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00167-00001				0.32	0.21	39	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00259-00001				0.30	0.21	39	54								
11/16"	Advanced Low-E IG	PEL-N-189-00089-00001	3	5	argon	0.26	0.23	43	58					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00193-00001				0.28	0.21	39	58					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00279-00001				0.28	0.21	39	58					17			
11/16"	NaturalSun Low-E IG	PEL-N-189-00064-00001	3	5	air	0.30	0.41	49	54					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00168-00001				0.32	0.37	44	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00260-00001				0.30	0.37	44	54								
11/16"	NaturalSun Low-E IG	PEL-N-189-00090-00001	3	5	argon	0.27	0.41	48	58					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00194-00001				0.29	0.38	44	58					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00280-00001				0.29	0.38	44	58					25			
11/16"	SunDefense™ Low-E IG	PEL-N-189-00065-00001	3	5	air	0.29	0.18	40	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00169-00001				0.32	0.16	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00261-00001				0.29	0.16	36	54								
11/16"	SunDefense Low-E IG	PEL-N-189-00091-00001	3	5	argon	0.26	0.17	39	58					17			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00195-00001				0.28	0.16	36	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00281-00001				0.28	0.16	36	58								

R-Value = 1/U-Factor  
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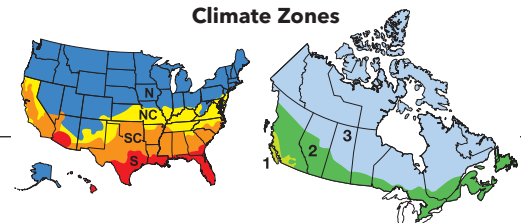
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

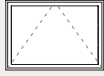
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Climate Zones





AWNING

**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 <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>				
										Zone				ER	Zone			
										N	NC	SC	S					
<b>VENT</b>																		
1"	Advanced Low-E IG	PEL-N-189-00016-00001	5	5	air	0.28	0.23	38	54									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00120-00001				0.28	0.21	34	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00224-00001				0.28	0.21	38	58									
1"	Advanced Low-E IG	PEL-N-189-00042-00001	5	5	argon	0.25	0.20	38	58					20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00146-00001				0.25	0.21	39	55					21				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00244-00001				0.25	0.21	36	55					21				
1"	NaturalSun Low-E IG	PEL-N-189-00017-00001	5	5	air	0.29	0.41	43	54					27				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00121-00001				0.29	0.37	46	57					25				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00225-00001				0.29	0.37	43	57					25				
1"	NaturalSun Low-E IG	PEL-N-189-00043-00001	5	5	argon	0.26	0.38	43	57					29				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00147-00001				0.26	0.38	43	54					29				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00245-00001				0.26	0.38	38	54					29				
1"	SunDefense™ Low-E IG	PEL-N-189-00018-00001	5	5	air	0.28	0.18	39	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00122-00001				0.28	0.16	36	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00226-00001				0.28	0.16	36	55									
1"	SunDefense Low-E IG	PEL-N-189-00044-00001	5	5	argon	0.25	0.17	39	58					18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00148-00001				0.25	0.16	36	58					18				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00246-00001				0.25	0.16	36	58					18				
<b>VENT - WITH FOAM INSERTS</b>																		
1"	Advanced Low-E IG	PEL-N-189-00068-00001	5	5	air	0.28	0.23	43	54					18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00172-00001				0.28	0.21	38	54					17				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00264-00001				0.28	0.21	38	54					17				
1"	Advanced Low-E IG	PEL-N-189-00094-00001	5	5	argon	0.25	0.17	39	58					18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00198-00001				0.25	0.21	38	58					21				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00284-00001				0.25	0.21	38	58					21				
1"	NaturalSun Low-E IG	PEL-N-189-00069-00001	5	5	air	0.29	0.41	48	54					27				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00173-00001				0.29	0.34	41	54					25				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00265-00001				0.29	0.37	43	54					25				
1"	NaturalSun Low-E IG	PEL-N-189-00095-00001	5	5	argon	0.26	0.41	48	57					31				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00199-00001				0.26	0.38	43	57					29				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00285-00001				0.26	0.38	43	57					29				
1"	SunDefense™ Low-E IG	PEL-N-189-00070-00001	5	5	air	0.28	0.18	39	55									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00174-00001				0.28	0.18	30	55									
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00266-00001				0.28	0.16	36	55									
1"	SunDefense Low-E IG	PEL-N-189-00096-00001	5	5	argon	0.25	0.17	39	58					18				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00200-00001				0.25	0.16	36	58					18				
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00286-00001				0.25	0.16	36	58					18				

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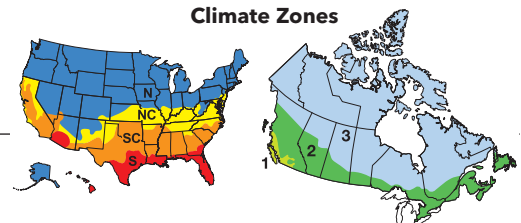
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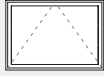
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**Climate Zones**





AWNING

### 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 <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
											Zone				ER	Zone		
VENT											N	NC	SC	S	1 2 3			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-189-00023-00001	3	3	3	air	0.20	0.20	34	70					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00127-00001					0.20	0.18	30	70					25			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-189-00049-00001	3	3	3	argon	0.17	0.20	34	74					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00153-00001					0.18	0.18	30	74					28			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00024-00001	3	3	3	air	0.24	0.37	45	66					31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00128-00001					0.24	0.32	39	66					28			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00050-00001	3	3	3	argon	0.21	0.37	45	68					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00154-00001					0.22	0.34	41	68					32			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-189-00025-00001	5	5	5	air	0.20	0.19	33	69					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00129-00001					0.20	0.18	30	69					25			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-189-00051-00001	5	5	5	argon	0.17	0.19	33	73					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00155-00001					0.18	0.18	30	73					28			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00026-00001	5	5	5	air	0.23	0.36	44	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00130-00001					0.24	0.32	39	65					28			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00052-00001	5	5	5	argon	0.21	0.36	44	67					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00156-00001					0.22	0.32	39	68					31			
VENT - WITH FOAM INSERTS																		
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-189-00075-00001	3	3	3	air	0.20	0.44	50	70					40			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00179-00001					0.20	0.18	30	70					25			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-189-00101-00001	3	3	3	argon	0.17	0.20	34	74					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00205-00001					0.17	0.18	30	74					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00076-00001	3	3	3	air	0.24	0.17	41	66					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00180-00001					0.24	0.34	41	66					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00102-00001	3	3	3	argon	0.21	0.37	45	68					35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00206-00001					0.22	0.34	41	69					32			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-189-00077-00001	5	5	5	air	0.20	0.16	25	69					24			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00181-00001					0.20	0.18	30	69					25			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-189-00103-00001	5	5	5	argon	0.17	0.19	33	73					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00207-00001					0.17	0.18	30	73					29			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00078-00001	5	5	5	air	0.23	0.36	44	65					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00182-00001					0.24	0.32	39	65					28			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00104-00001	5	5	5	argon	0.21	0.36	44	68					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00208-00001					0.22	0.32	39	68					31			

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

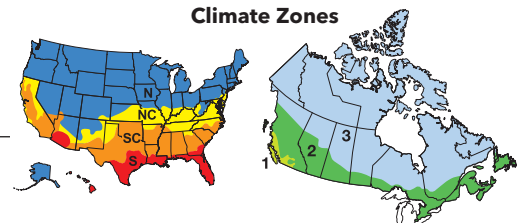
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

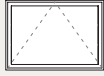
(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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See the Product Performance section for more detailed information or visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.

Climate Zones





AWNING

**GLAZING PERFORMANCE - TOTAL UNIT**

3-1/4" Block Pocket Replacement

11/16" Insulating Glass – Tinted Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
										N	NC	SC	S		1	2	3
11/16"	Bronze Advanced Low-E IG	PEL-N-189-00010-00001	3	3	air	0.28	0.23	32	57					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00114-00001				0.29	0.21	29	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00218-00001				0.28	0.21	29	57					17			
11/16"	Bronze Advanced Low-E IG	PEL-N-189-00036-00001	3	3	argon	0.25	0.23	32	61					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00140-00001				0.26	0.21	29	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00238-00001				0.25	0.21	29	61					21			
11/16"	Gray Low-E IG	PEL-N-189-00009-00001	3	3	air	0.29	0.17	24	56								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00113-00001				0.30	0.15	22	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00217-00001				0.29	0.15	22	56								
11/16"	Gray Low-E IG	PEL-N-189-00035-00001	3	3	argon	0.26	0.16	24	61					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00139-00001				0.27	0.14	22	60								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00237-00001				0.26	0.15	22	61					16			
<b>TINTED GLAZING – WITH FOAM INSERTS</b>																	
11/16"	Bronze Advanced Low-E IG	PEL-N-189-00062-00001	3	3	air	0.28	0.23	32	57					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00166-00001				0.29	0.21	29	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00258-00001				0.28	0.21	29	57					17			
11/16"	Bronze Advanced Low-E IG	PEL-N-189-00088-00001	3	3	argon	0.25	0.23	32	61					22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00192-00001				0.26	0.21	29	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00278-00001				0.26	0.21	29	61					19			
11/16"	Gray Low-E IG	PEL-N-189-00061-00001	3	3	air	0.29	0.17	24	56								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00165-00001				0.30	0.15	22	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00257-00001				0.29	0.15	22	56								
11/16"	Gray Low-E IG	PEL-N-189-00087-00001	3	3	argon	0.26	0.16	24	61					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00191-00001				0.27	0.15	22	60								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00277-00001				0.27	0.15	22	60								

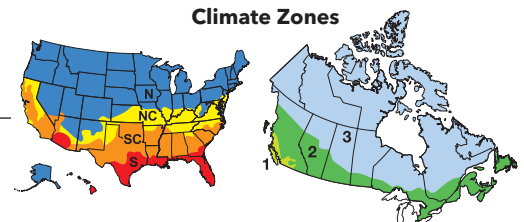
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 ER = Canadian Energy Rating

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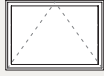
(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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AWNING

### GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement  
1" Insulating Glass – Tinted Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
TINTED GLAZING										N	NC	SC	S	1	2	3	
1"	Bronze Advanced Low-E IG	PEL-N-189-00020-00001	5	5	air	0.28	0.21	27	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00124-00001				0.28	0.19	24	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00228-00001				0.28	0.19	24	54								
1"	Bronze Advanced Low-E IG	PEL-N-189-00046-00001	5	5	argon	0.25	0.20	27	58					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00150-00001				0.25	0.19	25	58					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00248-00001				0.25	0.19	25	58					19			
1"	Gray Low-E IG	PEL-N-189-00019-00001	5	5	air	0.29	0.16	24	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00123-00001				0.29	0.15	22	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00227-00001				0.29	0.15	22	54								
1"	Gray Low-E IG	PEL-N-189-00045-00001	5	5	argon	0.26	0.16	24	57					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00149-00001				0.26	0.14	22	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00247-00001				0.26	0.14	22	57								
TINTED GLAZING – WITH FOAM INSERTS										N	NC	SC	S	1	2	3	
1"	Bronze Advanced Low-E IG	PEL-N-189-00072-00001	5	5	air	0.28	0.21	27	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00176-00001				0.28	0.18	24	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00268-00001				0.28	0.19	24	54								
1"	Bronze Advanced Low-E IG	PEL-N-189-00098-00001	5	5	argon	0.25	0.20	27	58					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00202-00001				0.25	0.19	25	58					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00288-00001				0.25	0.19	25	58					19			
1"	Gray Low-E IG	PEL-N-189-00071-00001	5	5	air	0.29	0.16	24	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00175-00001				0.29	0.34	41	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00267-00001				0.29	0.15	22	54								
1"	Gray Low-E IG	PEL-N-189-00097-00001	5	5	argon	0.26	0.16	24	57					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00201-00001				0.26	0.14	22	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00287-00001				0.26	0.14	22	57								

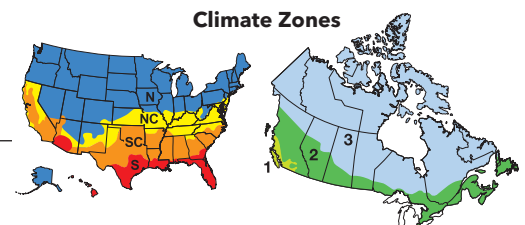
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VLT % = Visible Light Transmission  
CR = Condensation Resistance  
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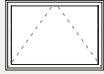
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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AWNING

**GLAZING PERFORMANCE - TOTAL UNIT**

3-1/4" Block Pocket Replacement with Structural Performance Upgrade  
11/16" Insulating Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
										N	NC	SC	S		1	2	3
<b>VENT – 3MM GLASS</b>																	
11/16"	Advanced Low-E IG	PEL-N-189-00294-00001	3	3	air	0.28	0.24	44	57					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00398-00001				0.29	0.22	39	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00502-00001				0.28	0.22	39	57					17			
11/16"	Advanced Low-E IG	PEL-N-189-00320-00001	3	3	argon	0.26	0.23	44	61					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00424-00001				0.26	0.21	39	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00522-00001				0.26	0.21	39	61					19			
11/16"	NaturalSun Low-E IG	PEL-N-189-00295-00001	3	3	air	0.29	0.43	49	56					28			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00399-00001				0.30	0.39	44	56					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00503-00001				0.29	0.39	44	56					26			
11/16"	NaturalSun Low-E IG	PEL-N-189-00321-00001	3	3	argon	0.26	0.43	49	61					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00425-00001				0.27	0.39	44	60					28			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00523-00001				0.26	0.39	44	61					30			
11/16"	SunDefense™ Low-E IG	PEL-N-189-00296-00001	3	3	air	0.28	0.18	40	57								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00400-00001				0.29	0.16	36	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00504-00001				0.28	0.16	36	57								
11/16"	SunDefense Low-E IG	PEL-N-189-00322-00001	3	3	argon	0.25	0.18	40	61					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00426-00001				0.26	0.16	36	61					16			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00524-00001				0.25	0.16	36	61					18			
<b>VENT – 3MM / 5MM GLASS</b>																	
11/16"	Advanced Low-E IG	PEL-N-189-00299-00001	3	5	air	0.30	0.23	43	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00403-00001				0.32	0.21	39	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00507-00001				0.30	0.21	39	54								
11/16"	Advanced Low-E IG	PEL-N-189-00325-00001	3	5	argon	0.27	0.23	43	58					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00429-00001				0.29	0.21	39	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00527-00001				0.27	0.21	39	58					18			
11/16"	NaturalSun Low-E IG	PEL-N-189-00300-00001	3	5	air	0.31	0.41	49	54					25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00404-00001				0.33	0.37	44	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00508-00001				0.31	0.37	44	54								
11/16"	NaturalSun Low-E IG	PEL-N-189-00326-00001	3	5	argon	0.27	0.41	49	58					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00430-00001				0.29	0.38	44	58					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00528-00001				0.27	0.38	44	58					28			
11/16"	SunDefense™ Low-E IG	PEL-N-189-00301-00001	3	5	air	0.30	0.18	40	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00405-00001				0.32	0.17	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00509-00001				0.30	0.17	36	54								
11/16"	SunDefense Low-E IG	PEL-N-189-00327-00001	3	5	argon	0.26	0.18	40	58					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00431-00001				0.28	0.16	36	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00529-00001				0.26	0.16	36	58					16			

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CR = Condensation Resistance  
ER = Canadian Energy Rating

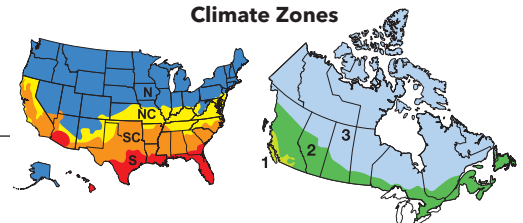
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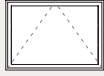
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Climate Zones





AWNING

### GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement with Structural Performance Upgrade  
1" Insulating Glass and Triple-Pane Insulating Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
											Zone				ER	Zone		
											N	NC	SC	S				
<b>VENT – WITH 1" IG</b>																		
1"	Advanced Low-E IG	PEL-N-189-00304-00001	5		5	air	0.28	0.23	43	54					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00408-00001					0.28	0.21	38	54					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00512-00001					0.28	0.21	38	54					17			
1"	Advanced Low-E IG	PEL-N-189-00330-00001	5		5	argon	0.26	0.23	43	57					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00434-00001					0.26	0.21	38	57					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00532-00001					0.26	0.21	38	57					19			
1"	NaturalSun Low-E IG	PEL-N-189-00305-00001	5		5	air	0.29	0.41	48	54					27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00409-00001					0.29	0.37	43	54					25			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00513-00001					0.29	0.37	43	54					25			
1"	NaturalSun Low-E IG	PEL-N-189-00331-00001	5		5	argon	0.27	0.41	48	57					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00435-00001					0.27	0.38	43	57					28			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00533-00001					0.27	0.38	43	57					28			
1"	SunDefense™ Low-E IG	PEL-N-189-00306-00001	5		5	air	0.28	0.18	39	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00410-00001					0.28	0.16	36	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00514-00001					0.28	0.16	36	54								
1"	SunDefense Low-E IG	PEL-N-189-00332-00001	5		5	argon	0.25	0.17	39	58					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00436-00001					0.25	0.16	36	58					18			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00534-00001					0.25	0.16	36	58					18			
<b>VENT – WITH TRIPLE-PANE IG</b>																		
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-189-00311-00001	3	3	3	air	0.20	0.20	34	70					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00415-00001					0.20	0.18	30	70					25			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-189-00337-00001	3	3	3	argon	0.18	0.20	34	74					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00441-00001					0.18	0.18	30	74					28			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00314-00001	3	3	3	air	0.24	0.37	45	66					31			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00416-00001					0.24	0.34	41	66					29			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00338-00001	3	3	3	argon	0.22	0.37	45	68					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00442-00001					0.22	0.34	41	68					32			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-189-00313-00001	5	5	5	air	0.20	0.19	33	69					26			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00417-00001					0.20	0.18	30	69					25			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-189-00339-00001	5	5	5	argon	0.17	0.19	33	73					29			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00443-00001					0.17	0.18	30	73					29			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00314-00001	5	5	5	air	0.24	0.36	44	65					30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00418-00001					0.24	0.32	39	65					28			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-189-00340-00001	5	5	5	argon	0.21	0.36	44	67					34			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00444-00001					0.21	0.32	39	67					32			

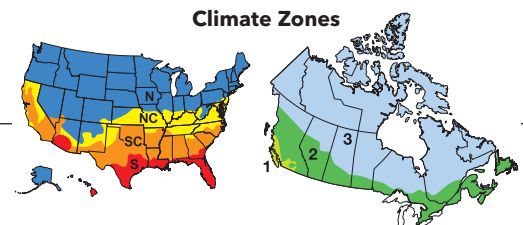
R-Value = 1/U-Factor  
SHGC = Solar Heat Gain Coefficient  
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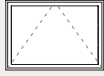
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(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.

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AWNING

### GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement with Structural Performance Upgrade  
Tinted Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
										N	NC	SC	S				
<b>TINTED GLAZING – WITH 11/16" IG</b>																	
11/16"	Bronze Advanced Low-E IG	PEL-N-189-00298-00001	3	3	air	0.28	0.23	32	57					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00402-00001				0.29	0.21	29	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00506-00001				0.28	0.21	29	57					17			
11/16"	Bronze Advanced Low-E IG	PEL-N-189-00324-00001	3	3	argon	0.26	0.23	32	61					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00428-00001				0.26	0.21	29	61					19			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00526-00001				0.26	0.21	29	61					19			
11/16"	Gray Low-E IG	PEL-N-189-00297-00001	3	3	air	0.29	0.17	25	56								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00401-00001				0.30	0.15	22	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00505-00001				0.29	0.15	22	56								
11/16"	Gray Low-E IG	PEL-N-189-00323-00001	3	3	argon	0.26	0.16	25	60					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00427-00001				0.27	0.15	22	60					15			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00525-00001				0.26	0.15	22	60					16			
<b>TINTED GLAZING – WITH 1" IG</b>																	
1"	Bronze Advanced Low-E IG	PEL-N-189-00308-00001	5	5	air	0.28	0.21	28	54					17			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00412-00001				0.28	0.19	25	54					16			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00516-00001				0.28	0.19	25	54					16			
1"	Bronze Advanced Low-E IG	PEL-N-189-00334-00001	5	5	argon	0.26	0.20	28	57					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00438-00001				0.26	0.19	25	57					18			
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00536-00001				0.26	0.19	25	57					18			
1"	Gray Low-E IG	PEL-N-189-00307-00001	5	5	air	0.29	0.16	24	54								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00411-00001				0.29	0.15	22	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00515-00001				0.29	0.15	22	54								
1"	Gray Low-E IG	PEL-N-189-00333-00001	5	5	argon	0.26	0.16	24	57					16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-189-00437-00001				0.26	0.14	22	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-189-00535-00001				0.26	0.14	22	57								

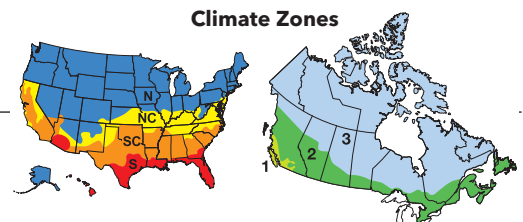
R-Value = 1/U-Factor  
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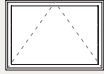
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

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AWNING

# HURRICANESHIELD® IMPACT-RESISTANT GLAZING

## GLAZING PERFORMANCE - TOTAL UNIT

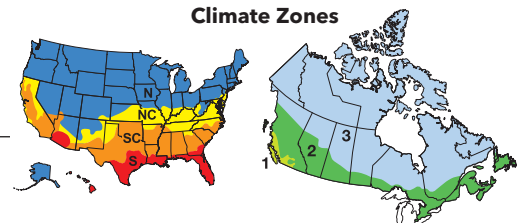
1" Insulating Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>		
										Zone				ER	Zone	
						N	NC	SC	S			1	2	3		
1"	Advanced Low-E IG PVB	PEL-N-187-00728-00001	3	9	air	0.27	0.23	43	58					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00752-00001				0.27	0.21	38	58					18		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00764-00001				0.27	0.21	38	58					18		
1"	Advanced Low-E IG PVB	PEL-N-187-00722-00001	3	9	argon	0.25	0.23	43	61					22		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00746-00001				0.25	0.21	38	61					21		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00758-00001				0.25	0.21	38	61					21		
1"	SunDefense™ Low-E IG PVB	PEL-N-187-00730-00001	3	9	air	0.27	0.17	39	58					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00754-00001				0.27	0.16	36	58							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00766-00001				0.27	0.16	36	58							
1"	SunDefense Low-E IG PVB	PEL-N-187-00724-00001	3	9	argon	0.24	0.17	39	62					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00748-00001				0.24	0.16	36	62					19		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00760-00001				0.24	0.16	36	62					19		
1"	Advanced Low-E IG PVB	PEL-N-187-00776-00001	5	9	air	0.27	0.23	42	57					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00800-00001				0.28	0.21	38	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00812-00001				0.27	0.21	38	57					18		
1"	Advanced Low-E IG PVB	PEL-N-187-00770-00001	5	9	argon	0.25	0.23	42	60					22		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00794-00001				0.25	0.21	38	60					21		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00806-00001				0.25	0.21	38	60					21		
1"	SunDefense™ Low-E IG PVB	PEL-N-187-00778-00001	5	9	air	0.27	0.18	39	57					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00802-00001				0.28	0.16	35	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00814-00001				0.27	0.16	35	57							
1"	SunDefense Low-E IG PVB	PEL-N-187-00772-00001	5	9	argon	0.24	0.17	39	61					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00796-00001				0.25	0.16	35	61					18		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00808-00001				0.24	0.16	35	61					19		
<b>VENT – WITH OBSCURE GLASS</b>																
1"	Advanced Low-E IG PVB	PEL-N-187-00691-00001	3	9	air	0.27	0.22	30	58					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00699-00001				0.27	0.20	27	58					17		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00703-00001				0.27	0.20	27	58					17		
1"	Advanced Low-E IG PVB	PEL-N-187-00689-00001	3	9	argon	0.25	0.22	30	61					21		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00697-00001				0.25	0.20	27	61					20		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00701-00001				0.25	0.20	27	61					20		
1"	SunDefense™ Low-E IG PVB	PEL-N-187-00692-00001	3	9	air	0.27	0.17	29	58					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00700-00001				0.27	0.15	25	58							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00704-00001				0.27	0.15	25	58							
1"	SunDefense Low-E IG PVB	PEL-N-187-00690-00001	3	9	argon	0.24	0.17	29	62					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00698-00001				0.24	0.15	25	62					18		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00702-00001				0.24	0.15	25	62					18		
1"	Advanced Low-E IG PVB	PEL-N-187-00707-00001	5	9	air	0.27	0.22	30	57					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00715-00001				0.28	0.20	27	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00719-00001				0.27	0.20	27	57					17		
1"	Advanced Low-E IG PVB	PEL-N-187-00705-00001	5	9	argon	0.25	0.22	30	60					21		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00713-00001				0.25	0.20	27	60					20		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00717-00001				0.25	0.20	27	60					20		
1"	SunDefense™ Low-E IG PVB	PEL-N-187-00708-00001	5	9	air	0.27	0.17	28	57					16		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00716-00001				0.28	0.15	25	57							
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00720-00001				0.27	0.15	25	57							
1"	SunDefense Low-E IG PVB	PEL-N-187-00706-00001	5	9	argon	0.24	0.17	28	61					19		
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00714-00001				0.25	0.15	25	61					17		
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00718-00001				0.24	0.15	25	61					18		

R-Value = 1/U-Factor  
 SHGC = Solar Heat Gain Coefficient  
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Climate Zones



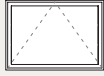
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.

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Based on unit size, some products will use 2.5mm glass that may have improved glazing performance from what is shown.

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AWNING

# HURRICANESHIELD® IMPACT-RESISTANT GLAZING

## GLAZING PERFORMANCE - TOTAL UNIT

1" Insulating Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>			
										Zone				ER	Zone		
VENT – WITH TINTED GLASS										N	NC	SC	S	1	2	3	
1"	Bronze Advanced Low-E IG PVB	PEL-N-187-00729-00001	3	9	air	0.27	0.22	24	58					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00753-00001				0.27	0.20	21	58					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00765-00001				0.27	0.20	21	58					17			
1"	Bronze Advanced Low-E IG PVB	PEL-N-187-00723-00001	3	9	argon	0.25	0.22	24	61					21			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00747-00001				0.25	0.20	21	61					20			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00759-00001				0.25	0.20	21	61					20			
1"	Gray Advanced Low-E IG PVB	PEL-N-187-00727-00001	3	9	air	0.28	0.16	24	57								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00751-00001				0.28	0.15	23	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00763-00001				0.28	0.15	23	57								
1"	Gray Advanced Low-E IG PVB	PEL-N-187-00721-00001	3	9	argon	0.25	0.16	24	61					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00745-00001				0.25	0.14	23	61					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00757-00001				0.25	0.14	23	61					17			
1"	Bronze Advanced Low-E IG PVB	PEL-N-187-00777-00001	5	9	air	0.27	0.22	23	57					19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00801-00001				0.28	0.20	21	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00813-00001				0.27	0.20	21	57					17			
1"	Bronze Advanced Low-E IG PVB	PEL-N-187-00771-00001	5	9	argon	0.25	0.22	23	60					21			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00795-00001				0.25	0.20	21	60					20			
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00807-00001				0.25	0.20	21	60					20			
1"	Gray Advanced Low-E IG PVB	PEL-N-187-00775-00001	5	9	air	0.28	0.16	24	56								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00799-00001				0.29	0.15	22	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00811-00001				0.28	0.15	22	56								
1"	Gray Advanced Low-E IG PVB	PEL-N-187-00769-00001	5	9	argon	0.25	0.16	24	60					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-187-00793-00001				0.26	0.14	22	60								
	with 7/8" Simulated Divided Light grilles	PEL-N-187-00805-00001				0.25	0.14	22	60					17			

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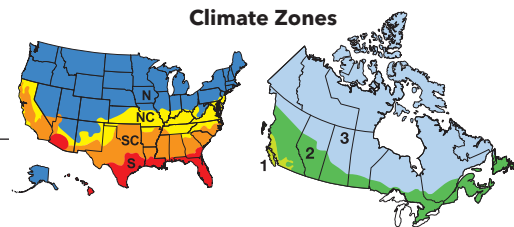
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.

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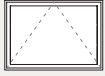
(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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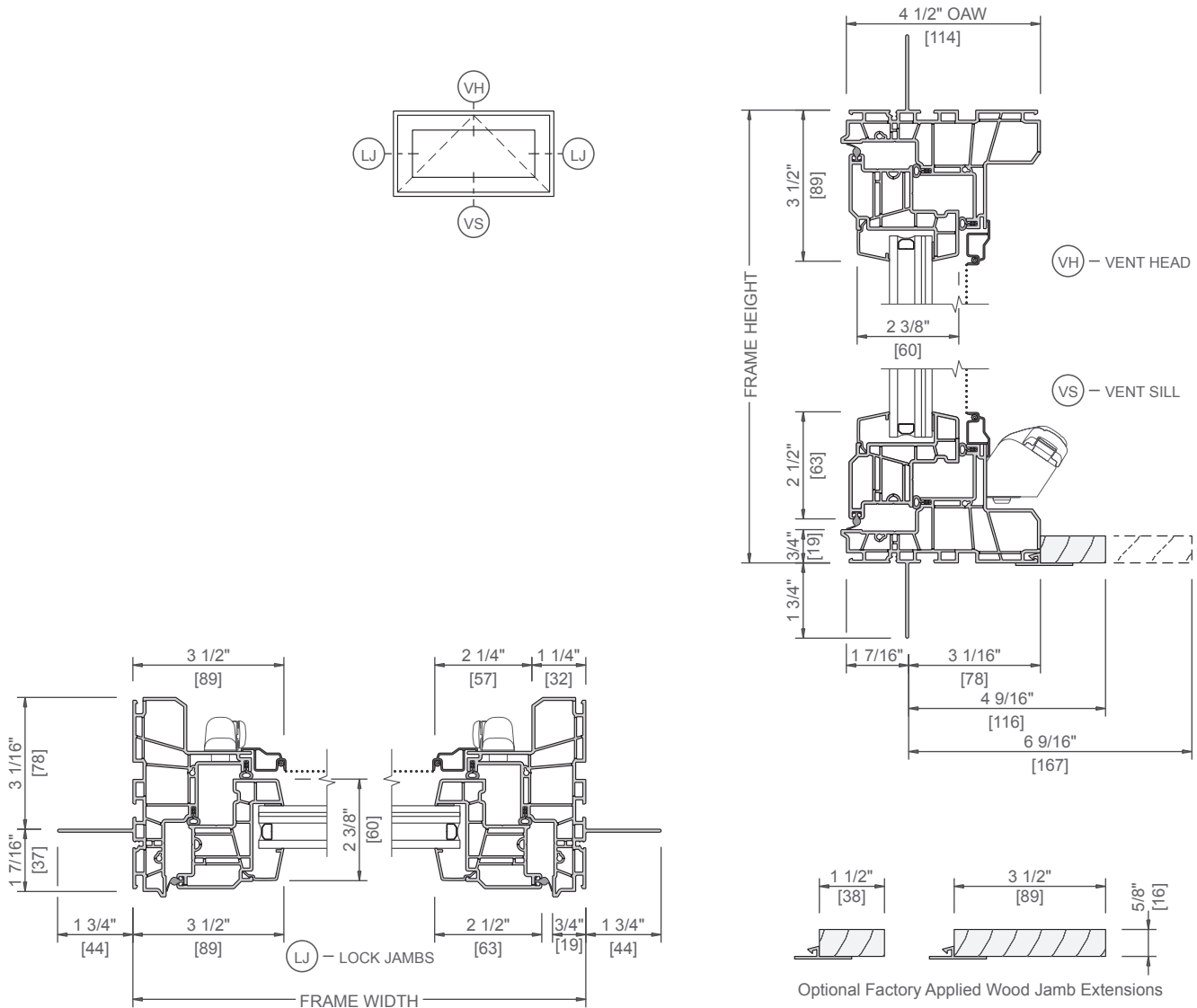
AWNING

HURRICANESHIELD® IMPACT-RESISTANT GLAZING

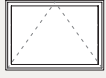


Certification Results<sub>1</sub>

Product	Design Pressure Large Missile Rating D		Hallmark Certified	Miami-Dade County Approved (NOA)	Florida Product Approval System (FPAS)	Texas Department of Insurance (TDI)
	Minimum	Maximum				
<b>VENT UNITS</b>						
1" Insulated Glass PVB	+ 70 / - 75	+ 70 / - 75	411-H-1417	13-0114.08	FL16060	WIN-1755



P = Pending  
 (1) Published performance data is for single unit only. See Design Data pages in this section for specific product performance class and grade values.



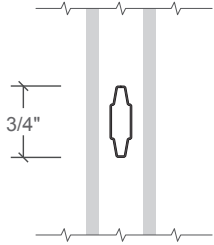
AWNING

## GRILLE TYPES

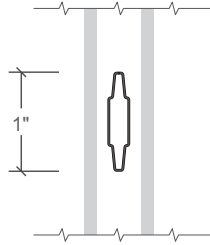


### Grille Profiles

#### GRILLES-BETWEEN-THE-GLASS

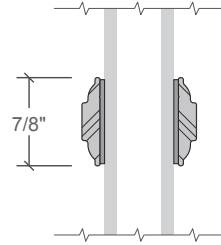


3/4" Contour

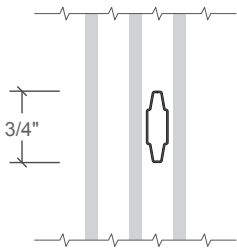


1" Contour

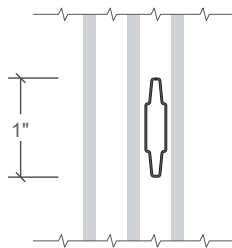
#### SIMULATED-DIVIDED-LIGHT GRILLES WITHOUT SPACER



7/8" Contour



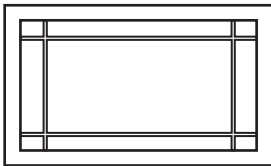
3/4" Contour



1" Contour

### Grille Patterns

#### PRAIRIE LITE PATTERNS

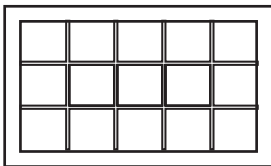


9-Lite Prairie

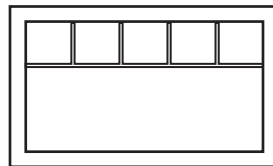
#### Prairie

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

#### OTHER AVAILABLE PATTERNS



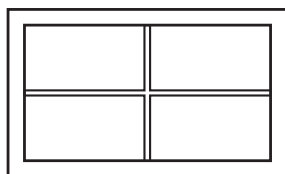
Traditional



Top Row

#### Traditional

- Specify number of lites.
- Grilles must be equally divided on visible glass.
- Minimum 6" x 6".

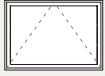


Custom - Equally Divided

#### Top Row

- Standard visible glass to separator bar must be  $\leq 1/2$  upper actual glass.

For traditional patterns, see size tables.



AWNING

**SPECIAL SIZE FRAME DIMENSIONS**

Miscellaneous Formulas



**1-WIDE VENT UNIT**



**MINIMUM**

17-1/2" W x 14-1/2" H  
(445 x 368)

**MAXIMUM**

59-1/2" W x 35-1/2" H  
(1 511 x 902)

**General Notes:**

- To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.
- Rough Opening = Frame Dimension + 1/2".
- Keep frame dimensions to the nearest 1/8" increment.
- Tempered glass must measure ≥ 18-1/2" diagonally.
- If glass width to height ratio is > 5 to 1, then unit must be tempered.

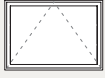
Miscellaneous Formulas

**1-WIDE-VENT**

<b>VISIBLE GLASS</b>	$VGW = FW - 7"$ $VGH = FH - 7"$
<b>ACTUAL GLASS</b>	$AGW = FW - 5-7/8"$ $AGH = FH - 5-7/8"$
<b>VENT AREA</b>	$((FW - 5.5") \times (11.95")) / 144$

**KEY:**

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



AWNING

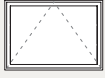
SIZE TABLES



1-Wide Vent

	(610) (597)	(711) (699)	(813) (800)	(914) (902)	(1 219) (1 207)	(1 372) (1 359)	(1 524) (1 511)
Opening	2' 0"	2' 4"	2' 8"	3' 0"	4' 0"	4' 6"	5' 0"
Frame	23 1/2"	27 1/2"	31 1/2"	35 1/2"	47 1/2"	53 1/2"	59 1/2"
(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	5-0/1-6
(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	5-0/2-0
(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	5-0/2-6
(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	5-0/3-0

Not to scale.



AWNING

## DESIGN DATA



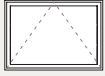
## SINGLE VENT UNITS

Call Out	Frame		Vent Area Ft <sup>2</sup>	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)		Performance Class & Grade <sub>1</sub>	
	Width (Inches)	Height (Inches)			Annealed	Tempered	Standard	Upgraded <sub>2</sub>
2-0/1-6	23-1/2	17-1/2	1.4	1.2	2.5	3	LC40	LC60/LC55
2-0/2-0	23-1/2	23-1/2	1.4	1.9	2.5	3	LC40	LC60/LC55
2-0/2-6	23-1/2	29-1/2	1.4	2.6	2.5	3	LC40	LC60/LC55
2-0/3-0	23-1/2	35-1/2	1.4	3.3	2.5	3	LC40	LC60/LC55
2-4/1-6	27-1/2	17-1/2	1.8	1.5	2.5	3	LC40	LC60/LC55
2-4/2-0	27-1/2	23-1/2	1.8	2.3	2.5	3	LC40	LC60/LC55
2-4/2-6	27-1/2	29-1/2	1.8	3.2	2.5	3	LC40	LC60/LC55
2-4/3-0	27-1/2	35-1/2	1.8	4.1	2.5	3	LC40	LC60/LC55
2-6/1-6	29-1/2	17-1/2	1.9	1.6	2.5	3	LC40	LC60/LC55
2-6/2-0	29-1/2	23-1/2	1.9	2.6	2.5	3	LC40	LC60/LC55
2-6/2-6	29-1/2	29-1/2	1.9	3.5	2.5	3	LC40	LC60/LC55
2-6/3-0	29-1/2	35-1/2	1.9	4.5	2.5	3	LC40	LC60/LC55
2-8/1-6	31-1/2	17-1/2	2.1	1.8	2.5	3	LC40	LC60/LC55
2-8/2-0	31-1/2	23-1/2	2.1	2.8	2.5	3	LC40	LC60/LC55
2-8/2-6	31-1/2	29-1/2	2.1	3.8	2.5	3	LC40	LC60/LC55
2-8/3-0	31-1/2	35-1/2	2.1	4.8	2.5	3	LC40	LC60/LC55
3-0/1-6	35-1/2	17-1/2	2.4	2.1	2.5	3	LC40	LC60/LC55
3-0/2-0	35-1/2	23-1/2	2.4	3.3	2.5	3	LC40	LC60/LC55
3-0/2-6	35-1/2	29-1/2	2.4	4.5	2.5	3	LC40	LC60/LC55
3-0/3-0	35-1/2	35-1/2	2.4	5.6	2.5	3	LC40	LC60/LC55
4-0/1-6	47-1/2	17-1/2	3.4	3.0	2.5	3	LC40	LC60/LC55
4-0/2-0	47-1/2	23-1/2	3.4	4.6	2.5	3	LC40	LC60/LC55
4-0/2-6	47-1/2	29-1/2	3.4	6.3	2.5	3	LC40	LC60/LC55
4-0/3-0	47-1/2	35-1/2	3.4	8.0	2.5	3	LC40	LC60/LC55
4-6/1-6	53-1/2	17-1/2	3.9	3.4	2.5	3	LC40	LC60/LC55
4-6/2-0	53-1/2	23-1/2	3.9	5.3	2.5	3	LC40	LC60/LC55
4-6/2-6	53-1/2	29-1/2	3.9	7.3	2.5	3	LC40	LC60/LC55
4-6/3-0	53-1/2	35-1/2	3.9	9.2	2.5	3	LC40	LC60/LC55
5-0/1-6	59-1/2	17-1/2	4.4	3.8	2.5	3	LC40	LC60/LC55
5-0/2-0	59-1/2	23-1/2	4.4	6.0	2.5	3	LC40	LC60/LC55
5-0/2-6	59-1/2	29-1/2	4.4	8.2	3	3	LC40	LC60/LC55
5-0/3-0	59-1/2	35-1/2	4.4	10.4	3	3	LC40	LC60/LC55

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

(2) Second value, where shown, is for 3-1/4" Block Pocket Replacement Frame.

To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



AWNING

## DETAILED PRODUCT DESCRIPTIONS



### FRAME

- Overall frame depth: 4-1/2" on all frame types except the 3-1/4" Block Pocket Replacement frame.
- Frame members are mitered and heat fused to provide a fully welded corner assembly.
- 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" 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 Insulation<sup>1</sup>].
- Panel members are mitered and heat-fused to provide a fully welded corner assembly with SmoothSeam™ virtually invisible interior welds.
- Contains sealed insulating glass.

### WEATHERSTRIPPING

- Vent is weatherstripped around the sash with rainstrip and the frame perimeter is weatherstripped with an extruded bulb weatherstrip in two locations.

### 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]] [Obscure<sup>3</sup>] [High Altitude<sup>2</sup>] [Tempered].
- or-
- 1-1/4" Triple-Pane annealed [Advanced Low-E coated with Argon] [NaturalSun Low-E coated with Argon] [Obscure] [High Altitude<sup>2</sup>] [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 options: [White] [Almond] [Brown exterior / White interior].

### HARDWARE

- Multi-point unison lock with single handle is factory-installed zinc die cast.
- High quality dual-arm roto operator with fold down crank handle on sill.
- Corrosion-resistant fasteners of PVC-compatible material.
- Hardware finish [White] [Almond] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

### SCREENS

- Standard Screen
  - Black vinyl coated 18/14 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201.
  - Set in aluminum extruded frame and fitted to interior of window.
  - Screen frame finish is baked enamel, color to match interior.
- or-
- InView™ Screens
  - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum extruded frame fitted to inside of window, supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, color to match interior.

### 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] [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.
- or-
- Simulated-Divided-Light grilles without spacer
  - 7/8" Grilles permanently bonded to the interior and exterior of glass.
  - Patterns are [Traditional] [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

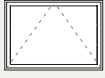
- Optional limited opening hardware available for vent units in stainless steel; nominal 3" opening.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Foam Insulation is not available with Performance Upgrade.

(2) Dual-Pane IG High Altitude glazing available with or without Argon. Triple-Pane IG High Altitude glazing not available with Argon.

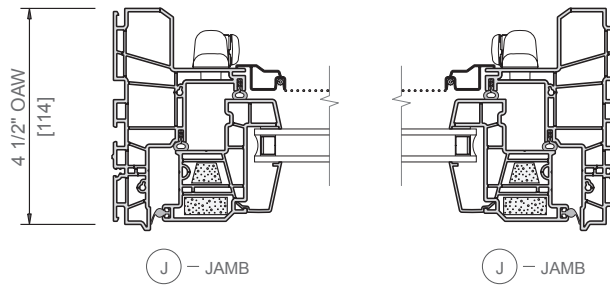
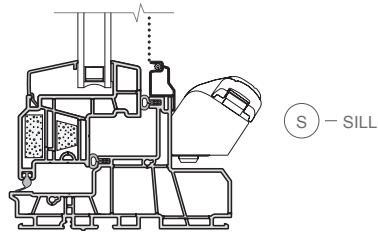
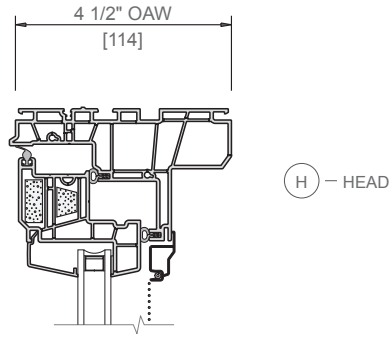
(3) Obscure glass not available with Bronze Advanced Low-E.



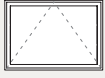


AWNING

### OPTIONAL FOAM INSULATION

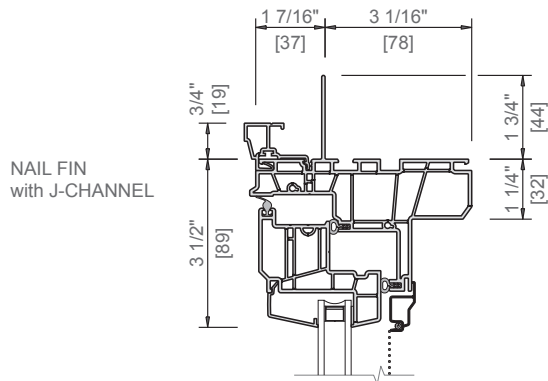
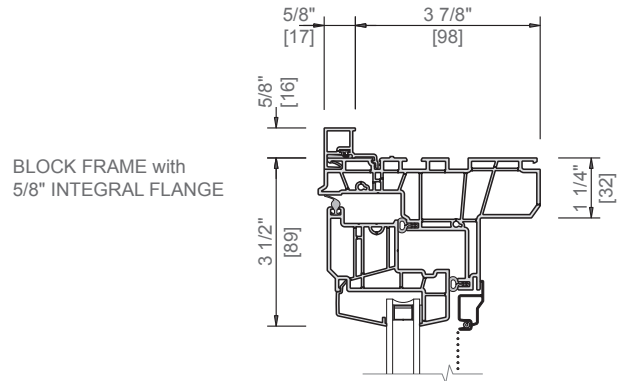
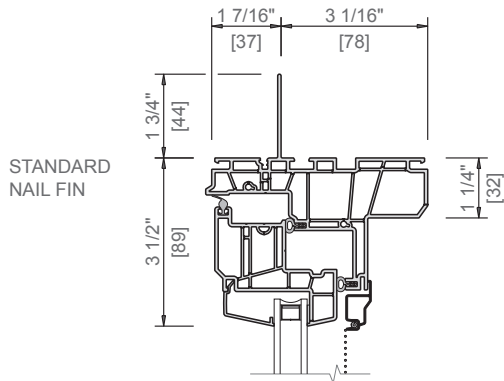
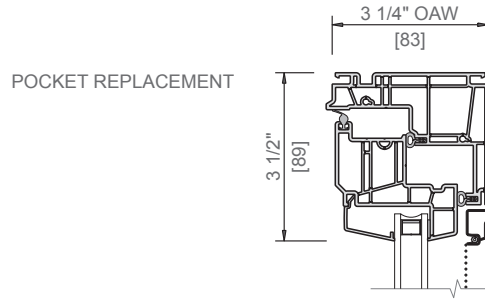
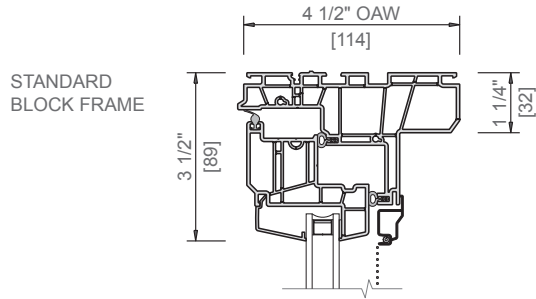


Scale 3" = 1' 0"  
All dimensions are approximate.

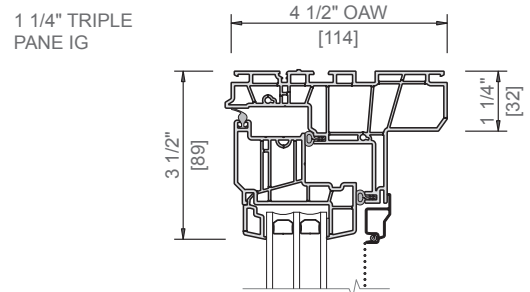
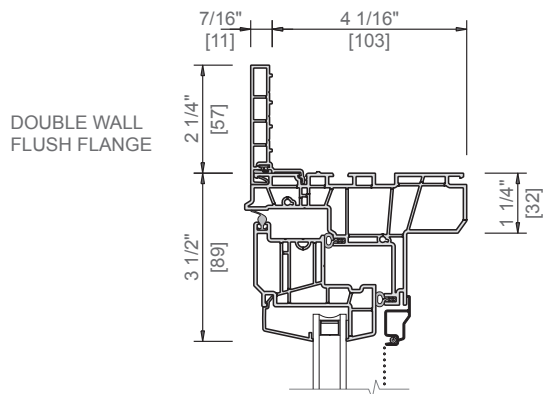
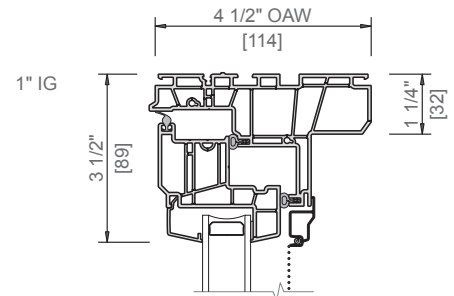


AWNING

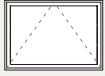
UNIT SECTIONS  
Installation Types



Additional glazing options

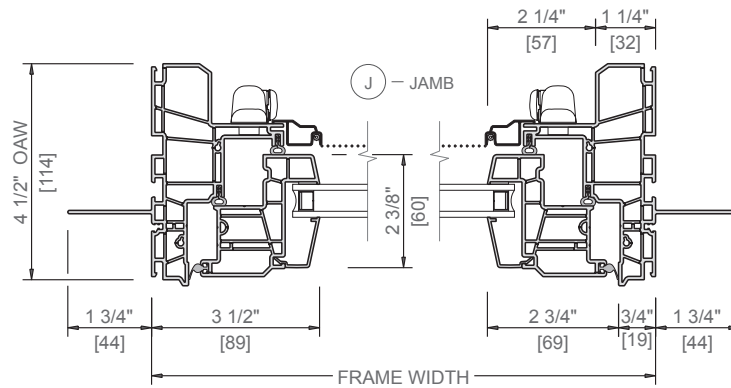
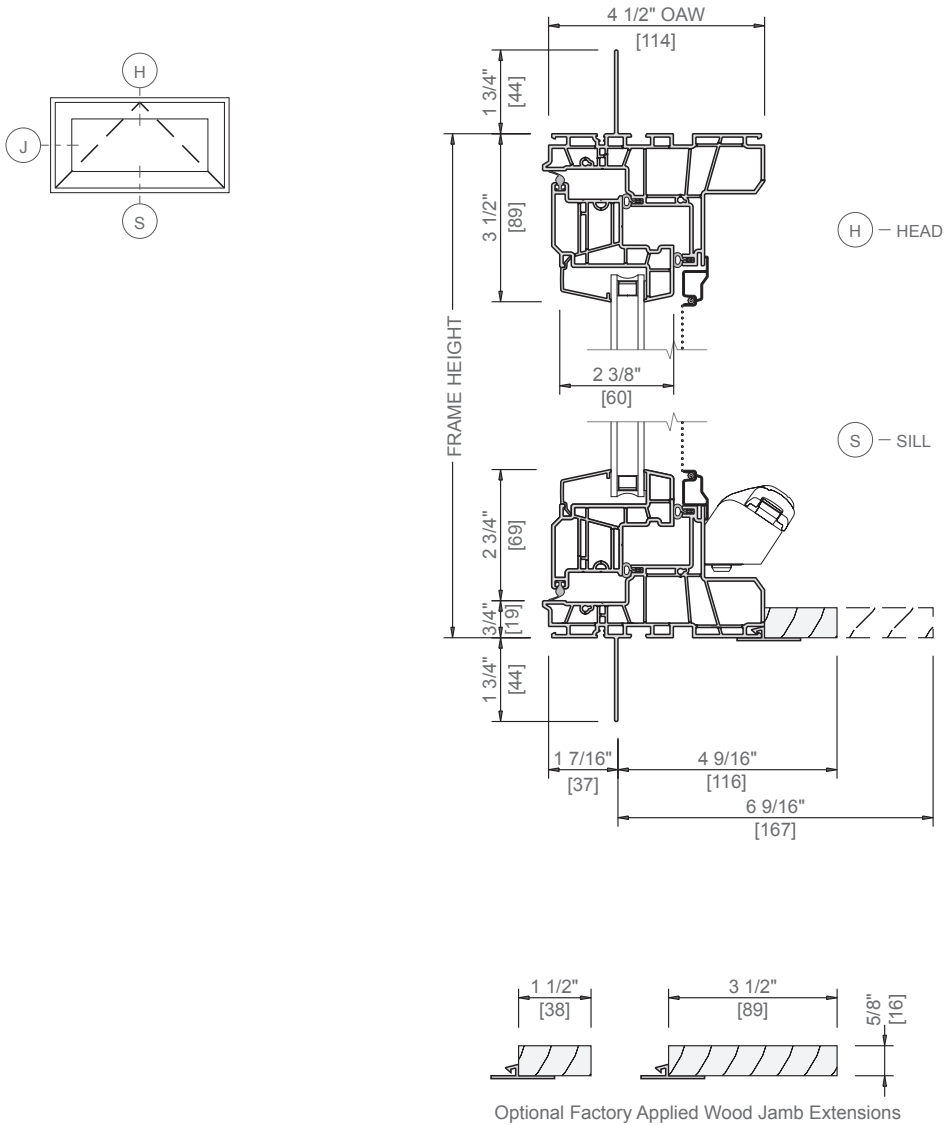


Scale 3" = 1' 0"  
All dimensions are approximate.

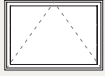


AWNING

UNIT SECTIONS  
Standard Nail Fin



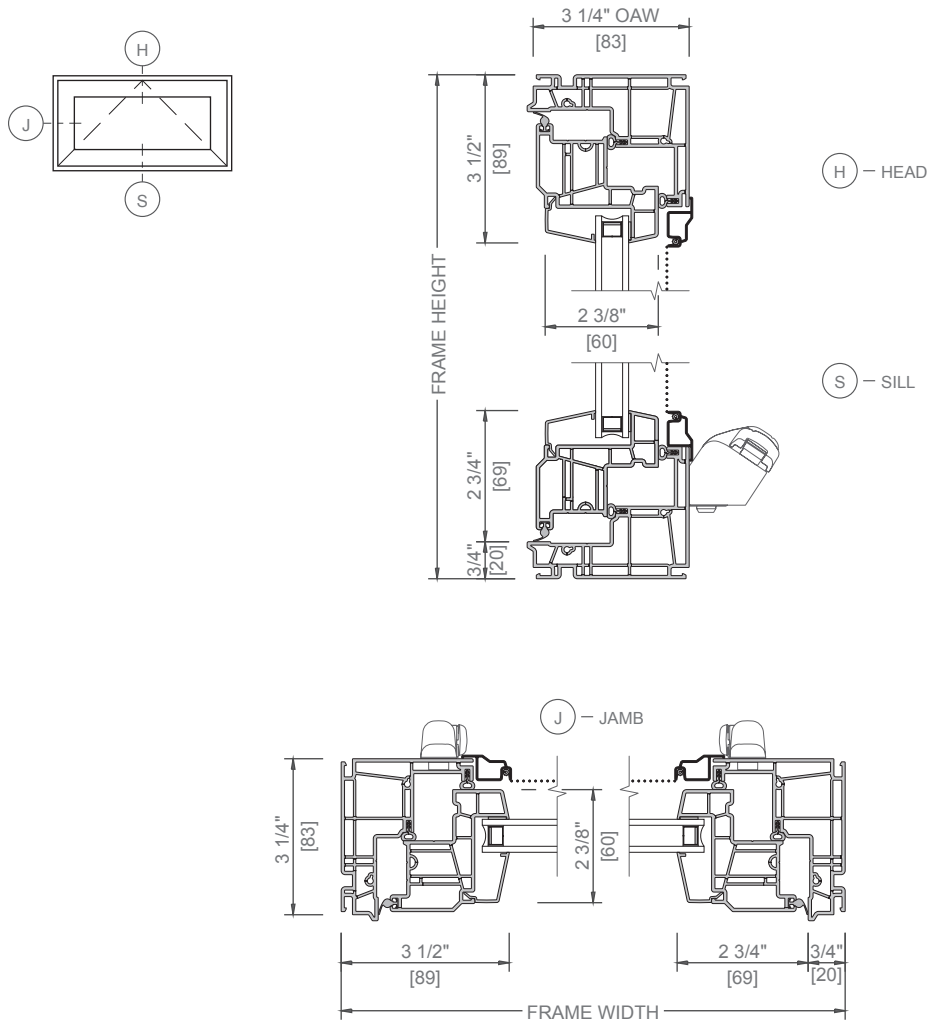
Scale 3" = 1' 0"  
All dimensions are approximate.



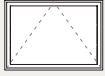
AWNING

UNIT SECTIONS

Block Pocket Replacement Frame



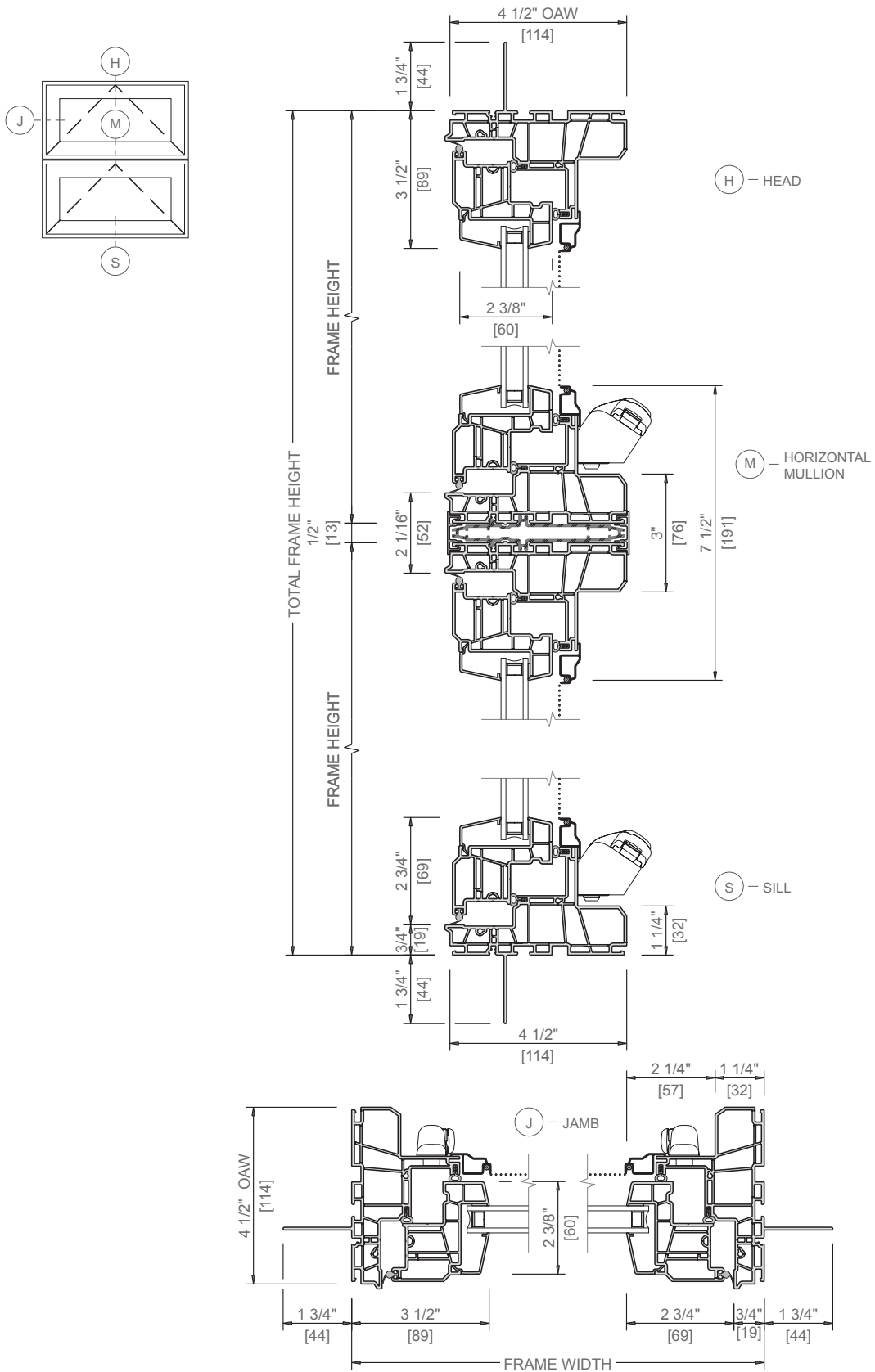
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All dimensions are approximate.



AWNING

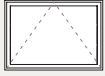
UNIT SECTIONS

Typical Factory-Assembled Joining Mullions with Standard Nail Fin



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

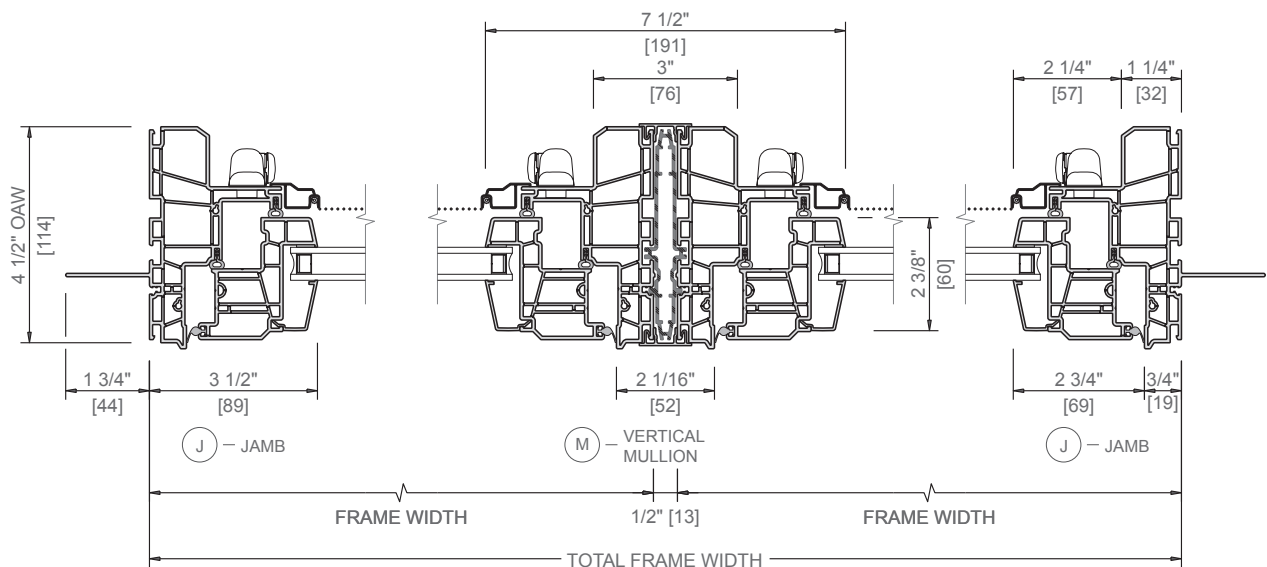
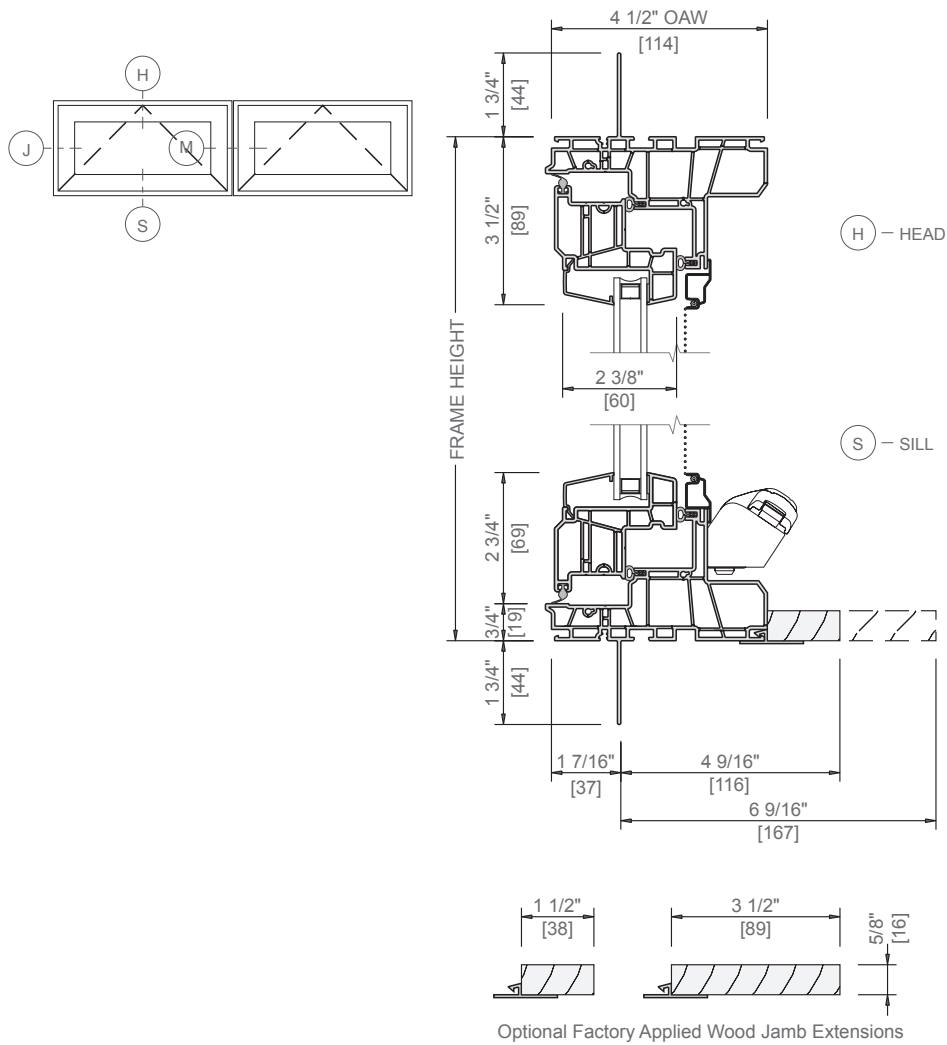
See Installation and Performance section for mulling limitations.



AWNING

UNIT SECTIONS

Typical Factory-Assembled Joining Mullions with Standard Nail Fin



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

See Installation and Performance section for mulling limitations.