

AWNING

SECTION DIRECTORY



Brand Directory

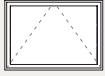
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Pella ProLine

Grille Types

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General Notes:

Specifications subject to change without notice. Go to www.PellaADM.com for most current technical data.
For complete CSI Format Specifications browse online at www.PellaADM.com.

Abbreviations:

P = Pending. Data not available at time of publication. Go to www.PellaADM.com for most current technical data.

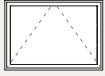
HGP = Hinged Glass Panel

PVB = Polyvinyl butyral. This is a laminate material used in Pella HurricaneShield® glazing and is the same material traditionally used in car windshield applications.

SGP = SentryGlas® Plus from DuPont®. This is a stiffer laminate material which is optional in select HurricaneShield impact-resistant glazing products.

SentryGlas Plus and DuPont are registered trademarks of E. I. DuPont De Nemours & Company.

HA = High Altitude Glass. See Wood / Clad Overview section for more information.



AWNING

BRAND SUMMARY

Awning



Awning Windows are perfect for contemporary or traditional applications and feature all the Pella innovations you demand. Pella's EnduraGuard protection formula, together with our immersion-treatment method, provides strong protection on every exterior wood surface of your windows and patio doors. This innovation provides advanced protection against the effects of moisture, decay, stains from mold and mildew - as well as termite damage. The exterior of the wood windows feature aluminum cladding with Pella's low-maintenance EnduraClad® protective finish, or EnduraClad® Plus protective finish. We maintain our high standard of energy efficiency with weatherstripping at the sides of sash, and full perimeter weatherstripping to reduce air infiltration. Pella maintains its high standards by taking the time to test virtually every vent unit for air infiltration so you know you're getting a quality product.



ARCHITECT SERIES®

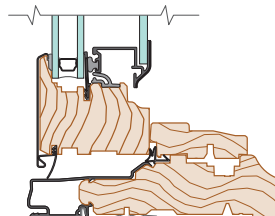
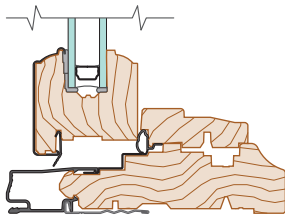
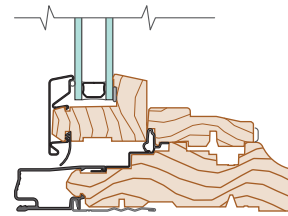
- A wide range of glazing options as well as HurricaneShield® impact-resistant Awnings
- Divided light options available in Integral Light Technology® grilles, grilles-between-the-glass or wood removable grilles in standard and custom patterns
- EnduraClad exterior finish in standard and feature colors plus nearly unlimited custom colors
- InView™ screens or Vivid View® screens

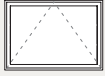
DESIGNER SERIES®

- Simplicity of insulated glass with the distinction of exclusive options
- Snap-in between-glass shades and blinds as well as removable between-the-glass grilles
- EnduraClad exterior finish in standard and feature colors plus nearly unlimited custom colors
- InView™ screens or Vivid View® screens

PELLA® PROLINE 450

- EnduraClad exterior finish in standard and feature colors
- Removable roomside grilles, grilles-between-the-glass, Simulated-Divided-Light grilles
- Prefinished stain, prefinished White, Bright White, Linen White or factory primed interiors
- Stainless steel operating arms and hinges resist rust and corrosion
- InView™ screens or Vivid View® screens

Triple-Pane
Glazing System



AWNING

PRODUCT SELECTION GUIDE

Size and Performance Data



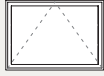
Awning	ARCHITECT SERIES		DESIGNER SERIES	PELLA PROLINE
	Clad	Wood	Clad	Clad
SIZES				
Standard Vent/Fixed Sizes	●	●	●	●
Standard Fixed Sizes	●	●	●	●
Special Sizes Available	●	●	●	●
Custom Sizes	●	●	–	–
PERFORMANCE₁				
Meets or Exceeds AAMA/WDMA Ratings	CW40-CW50 Hallmark Certified	CW40-CW50 Hallmark Certified	R25-R50 Hallmark Certified	R45-R50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	0.05	0.05	0.05	0.05
Water Resistance	7.5 psf	7.5 psf	7.5-10.7 psf	7.5 psf
Design Pressure	50 psf	50 psf	50-70 psf	50 psf
HurricaneShield® Impact-Resistant Awnings	CW60-CW85 Hallmark Certified	CW60 Hallmark Certified	–	–
OTHER PERFORMANCE CRITERIA				
Forced Entry Resistance Level (Minimum Security Grade) ₂	10	10	10	10

Large Awning	ARCHITECT SERIES		DESIGNER SERIES
	Clad	Wood	Clad
SIZES			
Standard Vent Sizes	●	●	●
Special Sizes Available	●	●	●
PERFORMANCE₁			
Meets or Exceeds AAMA/WDMA Ratings	CW40 Hallmark Certified	CW40 Hallmark Certified	R25-R50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	0.05	0.05	0.05
Water Resistance	7.5 psf	7.5 psf	10.7 psf
Design Pressure	40 psf	40 psf	50 psf
OTHER PERFORMANCE CRITERIA			
Forced Entry Resistance Level (Minimum Security Grade) ₂	10	10	10

(–) = Not Available

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values. Values shown are for standard and special sizes; Custom sizes may not have the same values. Contact your local sales representative for complete information.

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



AWNING

PRODUCT SELECTION GUIDE

Features and Options



	ARCHITECT SERIES		DESIGNER SERIES	PELLA PROLINE
	Clad	Wood		
GLAZING				
Glazing Type				
Dual-Pane Insulating Glass	S	S	-	S
Triple-Pane Insulating Glass	O	O	-	-
Designer Series® triple-pane glazing	-	-	S	-
Insulated Glass Options/Low-E Types				
Advanced Low-E	S	S	S	S
SunDefense™ Low-E	O	O	O	O
AdvancedComfort Low-E	O	O	O	O
NaturalSun Low-E	O	O	O	O
Insulating Glass with Clear Hinged Glass Panel	-	-	O	-
Clear (no Low-E coating)	O	O	O	-
Additional Glass Options				
Annealed Glass	S	S	S	S
Tempered Glass	O	O	O	O
Obscure Glass ₁	O	O	O	O
Tinted Glass (Bronze, Gray and Green)	O	O	O	-
Non-Impact Laminated Single-Pane Glass	O	O	-	-
Non-Impact Laminated Dual-Pane Insulating Glass	O	O	O	-
HurricaneShield® Impact Resistant Products with Laminated Single-Pane Glass	O	O	-	-
HurricaneShield® Impact Resistant Products with Laminated Dual-Pane 11/16" Insulating Glass	O	O	-	-
Gas Fill/High Altitude				
Argon	S	S	S	S
Krypton ₇	O	O	-	-
High altitude	O	O	O	O
High altitude with argon	O ₅	O	-	-
EXTERIOR				
EnduraClad® protective finish	S	-	S	S
EnduraClad Plus protective finish	O	-	O	-
Primed Wood	-	S	-	-
Unfinished Mahogany Wood	-	O	-	-
Cladding Colors				
White, Tan, Putty or Brown	S	-	S	S
23 Feature Colors ₄	O	-	O	O
Custom Colors ₁	O	-	O	-
INTERIOR				
Unfinished Wood	S	S	S	S
Factory primed	O	O	O	O
Factory prefinished paint ₁	O ₆	O ₆	O	O
Factory prefinished stain ₁	O	O	O	O
WOOD TYPES				
Pine	S	S	S	S
Mahogany, Alder, Douglas Fir	O	O	-	-

	ARCHITECT SERIES		DESIGNER SERIES	PELLA PROLINE
	Clad	Wood		
HARDWARE				
Champagne, White or Brown	S	S	S	S
Bright Brass, Satin Nickel or Oil-Rubbed Bronze	O	O	O	O
Sash Locks				
SureLock® System	S	S	S	S
Unison Lock System ₂	S	S	S	S
Hinging				
Awning–Stainless Steel	S	S	S	S
Large Awning–Side Hinge	-	-	S	-
Large Awning–Wash Hinge	S	S	-	-
Impact-Resistant–Wash Hinge	S	S	-	-
SCREENS				
InView™ screens	O	O	O	O
Vivid View® screens	O	O	O	O
GRILLES				
Integral Light Technology® Grilles				
Traditional, Prairie, Top Row, Cross, New England, Victorian, Simulated French, Custom	O	O	-	-
Removable Pine Wood Interior Grilles				
Traditional	O	O	-	O
Prairie, Top Row, Cross, New England, Victorian, Custom	O	O	-	-
Removable Between-Glass Grilles				
Traditional, Prairie, Top Row, Cross, New England, Custom	-	-	O	-
Grilles-Between-the-Glass				
Traditional, Prairie, Cross, Top Row ₁ , Custom-Equally Divided	O	O	-	O
Simulated Divided Light₅ with Optional Spacer				
Traditional, Prairie, Cross, Top Row, Custom-Equally Divided	-	-	-	O
WINDOW FASHIONS₃				
Cellular Fabric Shades₁				
Between-Glass Bottom-Up	-	-	O	-
Between-Glass Top-Down	-	-	O	-
Slimshade® Blinds₁				
Between-Glass Bottom-Up	-	-	O	-
Between-Glass Tilt-Only	-	-	O	-

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

(1) Contact your local Pella sales representative for current designs and color options.

(2) Unit height determines availability.

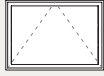
(3) For detailed information see Between-the-Glass options in the Clad/Wood Overview section.

(4) See the Clad/Wood Overview section for feature color options. Popular White, Hartford Green, Black and Brick Red are the only feature color options available for Pella ProLine Morning Sky Gray and Portobello in Spring 2015.

(5) Available with Low-E argon-insulated glass only.

(6) Not available on Mahogany, Alder and Douglas Fir interiors.

(7) Only available with Triple-Pane glazing, not available with high altitude glazing.



AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Wood

Vent Awning and Large Awning



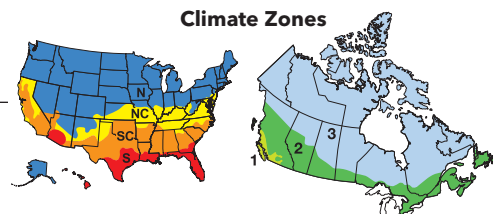
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂		
										Zone				ER	Zone	
VENT UNITS										N	NC	SC	S	1	2	3
11/16"	Clear IG	PEL-N-11-09073-00001	2.5	2.5	air	0.45	0.55	57	44							
	with grilles-between-the-glass	PEL-N-11-09695-00001				0.45	0.50	52	44							
	with integral grilles	PEL-N-11-09283-00001				0.44	0.50	52	44							
11/16"	Clear IG	PEL-N-11-09074-00001	3	3	air	0.45	0.54	56	44							
	with grilles-between-the-glass	PEL-N-11-09696-00001				0.45	0.49	51	44							
	with integral grilles	PEL-N-11-09284-00001				0.45	0.49	51	44							
11/16"	Advanced Low-E IG	PEL-N-11-09031-00001	2.5	2.5	argon	0.29	0.26	48	61							
	with grilles-between-the-glass	PEL-N-11-09653-00001				0.29	0.24	44	61							
	with integral grilles	PEL-N-11-09241-00001				0.29	0.24	44	61							
11/16"	Advanced Low-E IG	PEL-N-11-09032-00001	3	3	argon	0.29	0.26	48	59							
	with grilles-between-the-glass	PEL-N-11-09654-00001				0.29	0.24	43	59							
	with integral grilles	PEL-N-11-09242-00001				0.29	0.24	43	59							
11/16"	SunDefense™ Low-E IG	PEL-N-11-09044-00001	2.5	2.5	argon	0.28	0.19	45	61					16		
	with grilles-between-the-glass	PEL-N-11-09666-00001				0.28	0.18	41	61							
	with integral grilles	PEL-N-11-09254-00001				0.29	0.18	41	61							
11/16"	SunDefense™ Low-E IG	PEL-N-11-09045-00001	3	3	argon	0.28	0.19	44	60					16		
	with grilles-between-the-glass	PEL-N-11-09667-00001				0.28	0.18	40	60							
	with integral grilles	PEL-N-11-09255-00001				0.29	0.18	40	60							
11/16"	AdvancedComfort Low-E IG	PEL-N-11-10701-00001	2.5	2.5	argon	0.26	0.26	47	48					22		
	with grilles-between-the-glass	PEL-N-11-10687-00001				0.26	0.23	43	48					20		
	with integral grilles	PEL-N-11-10659-00001				0.26	0.23	43	48					20		
11/16"	AdvancedComfort Low-E IG	PEL-N-11-10646-00001	3	3	argon	0.26	0.25	47	47					22		
	with grilles-between-the-glass	PEL-N-11-10688-00001				0.26	0.23	42	47					20		
	with integral grilles	PEL-N-11-10660-00001				0.26	0.23	42	47					20		
11/16"	NaturalSun Low-E IG	PEL-N-30-07922-00001	2.5	2.5	argon	0.30	0.48	55	60					30		
	with grilles-between-the-glass	PEL-N-30-08544-00001				0.30	0.44	50	60					28		
	with integral grilles	PEL-N-30-08132-00001				0.30	0.44	50	60					28		
11/16"	NaturalSun Low-E IG	PEL-N-30-07923-00001	3	3	argon	0.29	0.48	54	59					31		
	with grilles-between-the-glass	PEL-N-30-08545-00001				0.29	0.43	49	59					28		
	with integral grilles	PEL-N-30-08133-00001				0.30	0.43	49	59					27		
TINTED GLAZING																
11/16"	Bronze Advanced Low-E IG	PEL-N-11-08989-00001	5	3	argon	0.29	0.23	31	59							
	with grilles-between-the-glass	PEL-N-11-09611-00001				0.31	0.21	28	59							
	with integral grilles	PEL-N-11-09199-00001				0.30	0.21	28	59							
11/16"	Gray Advanced Low-E IG	PEL-N-11-09015-00001	5	3	argon	0.29	0.21	27	59							
	with grilles-between-the-glass	PEL-N-11-09637-00001				0.31	0.19	24	59							
	with integral grilles	PEL-N-11-09225-00001				0.30	0.19	24	59							
11/16"	Green Advanced Low-E IG	PEL-N-11-09022-00001	5	3	argon	0.29	0.23	38	59							
	with grilles-between-the-glass	PEL-N-11-09644-00001				0.31	0.21	34	59							
	with integral grilles	PEL-N-11-09232-00001				0.30	0.21	34	59							

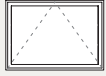
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(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.

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





AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Wood
Vent Awning and Large Awning



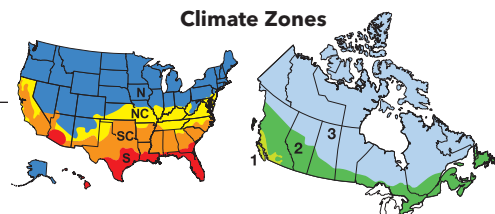
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown									
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ²					
										Zone				ER	Zone				
HIGH ALTITUDE GLAZING										N	NC	SC	S				1	2	3
11/16"	Advanced Low-E IG	PEL-N-11-09108-00001	2.5	2.5	air	0.32	0.26	48	56										
	with grilles-between-the-glass	PEL-N-11-09730-00001				0.32	0.24	44	56										
	with integral grilles	PEL-N-11-09318-00001				0.32	0.24	44	56										
11/16"	Advanced Low-E IG	PEL-N-11-09109-00001	3	3	air	0.32	0.26	48	55										
	with grilles-between-the-glass	PEL-N-11-09731-00001				0.32	0.24	43	55										
	with integral grilles	PEL-N-11-09319-00001				0.32	0.24	43	55										
11/16"	SunDefense Low-E IG	PEL-N-11-09121-00001	2.5	2.5	air	0.31	0.20	45	57										
	with grilles-between-the-glass	PEL-N-11-09743-00001				0.31	0.18	41	57										
	with integral grilles	PEL-N-11-09331-00001				0.32	0.18	41	57										
11/16"	SunDefense Low-E IG	PEL-N-11-09122-00001	3	3	air	0.32	0.20	44	56										
	with grilles-between-the-glass	PEL-N-11-09744-00001				0.32	0.18	40	56										
	with integral grilles	PEL-N-11-09332-00001				0.32	0.18	40	56										
11/16"	AdvancedComfort Low-E IG	PEL-N-11-10652-00001	2.5	2.5	air	0.28	0.26	47	44						20				
	with grilles-between-the-glass	PEL-N-11-10694-00001				0.28	0.23	43	44						18				
	with integral grilles	PEL-N-11-10666-00001				0.28	0.23	43	44						18				
11/16"	AdvancedComfort Low-E IG	PEL-N-11-10653-00001	3	3	air	0.28	0.26	47	43						20				
	with grilles-between-the-glass	PEL-N-11-10695-00001				0.28	0.23	42	43						18				
	with integral grilles	PEL-N-11-10667-00001				0.28	0.23	42	43						18				
11/16"	NaturalSun Low-E IG	PEL-N-30-07999-00001	2.5	2.5	air	0.33	0.48	55	56						26				
	with grilles-between-the-glass	PEL-N-30-08621-00001				0.33	0.44	50	56										
	with integral grilles	PEL-N-30-08209-00001				0.33	0.44	50	56										
11/16"	NaturalSun Low-E IG	PEL-N-30-08000-00001	3	3	air	0.33	0.47	54	55						26				
	with grilles-between-the-glass	PEL-N-30-08622-00001				0.33	0.43	49	55										
	with integral grilles	PEL-N-30-08210-00001				0.33	0.43	49	55										

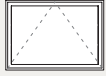
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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Wood

Triple-Pane Glazing



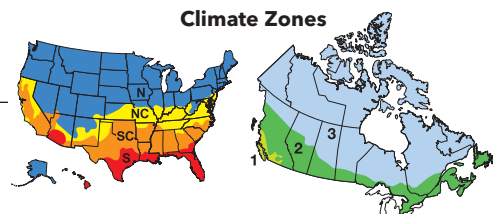
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performane Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown									
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂					
											Zone				ER	Zone				
VENT											N	NC	SC	S				1	2	3
1"	Advanced Low-E IG	PEL-N-30-08069-00001	3	3	3	argon	0.22	0.24	42	71					26					
	with grilles-between-the-glass	PEL-N-30-08691-00001					0.23	0.22	38	71					24					
	with integral grilles	PEL-N-30-09749-00001					0.23	0.22	38	71					24					
1"	Advanced Low-E IG	PEL-N-30-09709-00001	3	3	3	krypton	0.19	0.23	42	74					29					
	with grilles-between-the-glass	PEL-N-30-09710-00001					0.19	0.21	38	74					28					
	with integral grilles	PEL-N-30-09711-00001					0.20	0.21	38	74					27					
1"	SunDefense™ Low-E IG	PEL-N-30-08076-00001	3	3	3	argon	0.22	0.18	39	71					23					
	with grilles-between-the-glass	PEL-N-30-08698-00001					0.23	0.16	35	71					20					
	with integral grilles	PEL-N-30-09757-00001					0.23	0.16	35	71					20					
1"	SunDefense™ Low-E IG	PEL-N-30-09725-00001	3	3	3	krypton	0.19	0.17	39	74					26					
	with grilles-between-the-glass	PEL-N-30-09726-00001					0.19	0.16	35	74					25					
	with integral grilles	PEL-N-30-09727-00001					0.20	0.16	35	74					24					
1"	NaturalSun Low-E IG	PEL-N-30-08064-00001	3	3	3	argon	0.23	0.39	48	71					33					
	with grilles-between-the-glass	PEL-N-30-08686-00001					0.23	0.36	43	71					32					
	with integral grilles	PEL-N-30-09741-00001					0.23	0.36	43	71					32					
1"	NaturalSun Low-E IG	PEL-N-30-09693-00001	3	3	3	krypton	0.19	0.39	48	74					38					
	with grilles-between-the-glass	PEL-N-30-09694-00001					0.19	0.36	43	74					37					
	with integral grilles	PEL-N-30-09695-00001					0.20	0.36	43	74					35					
HIGH ALTITUDE GLAZING																				
1"	Advanced Low-E IG	PEL-N-30-08085-00001	3	3	3	air	0.26	0.24	42	67					21					
	with grilles-between-the-glass	PEL-N-30-08707-00001					0.26	0.22	38	67					20					
	with integral grilles	PEL-N-30-09773-00001					0.26	0.22	38	67					20					
1"	SunDefense Low-E IG	PEL-N-30-08092-00001	3	3	3	air	0.25	0.18	39	67					19					
	with grilles-between-the-glass	PEL-N-30-08714-00001					0.26	0.16	35	67					16					
	with integral grilles	PEL-N-30-09781-00001					0.26	0.16	35	67					16					
1"	NaturalSun Low-E IG	PEL-N-30-08080-00001	3	3	3	air	0.26	0.39	48	66					30					
	with grilles-between-the-glass	PEL-N-30-08702-00001					0.26	0.35	43	67					27					
	with integral grilles	PEL-N-30-09765-00001					0.27	0.35	53	66					26					

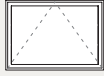
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
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 CR = Condensation Resistance
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(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values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

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

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





AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Wood Exterior

Vent Awning and Large Awning



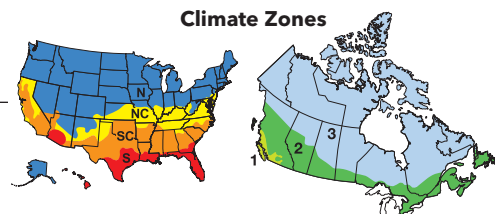
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone	ER	Zone						
						N	NC	SC	S	1	2	3						
VENT																		
11/16"	Clear IG	PEL-N-39-04782-00001	3	3	air	0.43	0.55	57	45									
	with integral grilles	PEL-N-39-05388-00001				0.43	0.50	52	45									
11/16"	Clear IG	PEL-N-39-04783-00001	3	3	air	0.44	0.54	56	44									
	with integral grilles	PEL-N-39-05389-00001				0.44	0.49	51	44									
11/16"	Advanced Low-E IG	PEL-N-39-04740-00001	2.5	2.5	argon	0.27	0.26	48	61					21				
	with integral grilles	PEL-N-39-05346-00001				0.28	0.24	44	61					19				
11/16"	Advanced Low-E IG	PEL-N-39-04741-00001	3	3	argon	0.27	0.26	48	60					21				
	with integral grilles	PEL-N-39-05347-00001				0.28	0.24	43	60					19				
11/16"	SunDefense™ Low-E IG	PEL-N-39-04753-00001	2.5	2.5	argon	0.27	0.19	45	61					17				
	with integral grilles	PEL-N-39-05359-00001				0.27	0.18	41	61					16				
11/16"	SunDefense™ Low-E IG	PEL-N-39-04754-00001	3	3	argon	0.27	0.19	44	60					17				
	with integral grilles	PEL-N-39-05360-00001				0.27	0.18	40	60					16				
11/16"	AdvancedComfort Low-E IG	PEL-N-39-06315-00001	2.5	2.5	argon	0.24	0.24	47	49					24				
	with integral grilles	PEL-N-39-06357-00001				0.24	0.23	43	49					23				
11/16"	AdvancedComfort Low-E IG	PEL-N-39-06316-00001	3	3	argon	0.24	0.25	47	47					24				
	with integral grilles	PEL-N-39-06358-00001				0.24	0.23	42	47					23				
11/16"	NaturalSun Low-E IG	PEL-N-40-03914-00001	2.5	2.5	argon	0.28	0.48	55	61					32				
	with integral grilles	PEL-N-40-04520-00001				0.28	0.44	50	61					30				
11/16"	NaturalSun Low-E IG	PEL-N-40-03915-00001	3	3	argon	0.28	0.47	54	60					32				
	with integral grilles	PEL-N-40-04521-00001				0.28	0.43	49	59					30				
TINTED GLAZING																		
11/16"	Bronze Advanced Low-E IG	PEL-N-39-04698-00001	5	3	argon	0.29	0.23	31	59									
	with integral grilles	PEL-N-39-05304-00001				0.29	0.21	28	59									
11/16"	Gray Advanced Low-E IG	PEL-N-39-04724-00001	5	3	argon	0.28	0.21	27	59					17				
	with integral grilles	PEL-N-39-05330-00001				0.29	0.19	24	59									
11/16"	Green Advanced Low-E IG	PEL-N-39-04731-00001	5	3	argon	0.28	0.22	38	59					17				
	with integral grilles	PEL-N-39-05337-00001				0.29	0.21	34	59									
HIGH ALTITUDE GLAZING																		
11/16"	Advanced Low-E IG	PEL-N-39-04817-00001	2.5	2.5	air	0.30	0.26	48	57									
	with integral grilles	PEL-N-39-05423-00001				0.31	0.24	44	57									
11/16"	Advanced Low-E IG	PEL-N-39-04818-00001	3	3	air	0.31	0.26	48	56									
	with integral grilles	PEL-N-39-05424-00001				0.31	0.24	43	56									
11/16"	SunDefense Low-E IG	PEL-N-39-04830-00001	2.5	2.5	air	0.30	0.20	45	57									
	with integral grilles	PEL-N-39-05436-00001				0.30	0.18	41	57									
11/16"	SunDefense Low-E IG	PEL-N-39-04831-00001	3	3	air	0.30	0.20	44	56									
	with integral grilles	PEL-N-39-05437-00001				0.31	0.18	40	56									
11/16"	AdvancedComfort Low-E IG	PEL-N-39-06322-00001	2.5	2.5	air	0.26	0.25	47	44					22				
	with integral grilles	PEL-N-39-06364-00001				0.26	0.23	43	44					20				
11/16"	AdvancedComfort Low-E IG	PEL-N-39-06323-00001	3	3	air	0.27	0.25	47	43					20				
	with integral grilles	PEL-N-39-06365-00001				0.27	0.23	42	43					19				
11/16"	NaturalSun Low-E IG	PEL-N-40-03991-00001	2.5	2.5	air	0.31	0.48	55	57					29				
	with integral grilles	PEL-N-40-04597-00001				0.31	0.44	50	57					26				
11/16"	NaturalSun Low-E IG	PEL-N-40-03992-00001	3	3	air	0.31	0.47	54	55					28				
	with integral grilles	PEL-N-40-04598-00001				0.31	0.43	49	55					26				

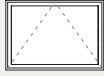
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(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2015 (Version 6) criteria.

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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Wood Exterior

Triple-Pane Glazing



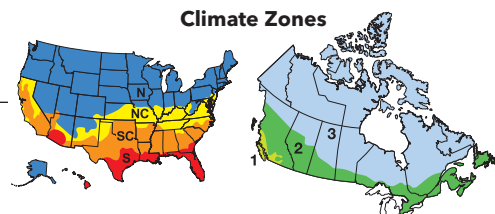
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performane Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown									
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.									
											Zone				Canada ₂					
											N	NC	SC	S	ER			1	2	3
1"	Advanced Low-E IG	PEL-N-40-04061-00001	3	3	3	argon	0.21	0.23	42	72					27					
	with grilles-between-the-glass	PEL-N-40-04667-00001					0.21	0.21	38	72					26					
	with integral grilles	PEL-N-40-04263-00001					0.21	0.21	38	72					26					
1"	Advanced Low-E IG	PEL-N-40-05645-00001	3	3	3	krypton	0.18	0.23	42	76					30					
	with grilles-between-the-glass	PEL-N-40-05646-00001					0.18	0.21	38	76					29					
	with integral grilles	PEL-N-40-05647-00001					0.18	0.21	38	76					29					
1"	SunDefense™ Low-E IG	PEL-N-40-04068-00001	3	3	3	argon	0.21	0.18	39	72					24					
	with grilles-between-the-glass	PEL-N-40-04674-00001					0.21	0.16	35	72					23					
	with integral grilles	PEL-N-40-04270-00001					0.21	0.16	35	72					23					
1"	SunDefense™ Low-E IG	PEL-N-40-05661-00001	3	3	3	krypton	0.18	0.17	39	76					27					
	with grilles-between-the-glass	PEL-N-40-05662-00001					0.18	0.16	35	76					26					
	with integral grilles	PEL-N-40-05663-00001					0.18	0.16	35	76					26					
1"	NaturalSun Low-E IG	PEL-N-40-04056-00001	3	3	3	argon	0.21	0.39	48	71					36					
	with grilles-between-the-glass	PEL-N-40-04662-00001					0.21	0.35	43	71					34					
	with integral grilles	PEL-N-40-04258-00001					0.21	0.35	43	71					34					
1"	NaturalSun Low-E IG	PEL-N-40-05629-00001	3	3	3	krypton	0.18	0.39	48	75					40					
	with grilles-between-the-glass	PEL-N-40-05630-00001					0.18	0.35	43	75					37					
	with integral grilles	PEL-N-40-05631-00001					0.19	0.35	43	75					36					
HIGH ALTITUDE GLAZING																				
1"	Advanced Low-E IG	PEL-N-40-04077-00001	3	3	3	air	0.24	0.24	42	67					24					
	with grilles-between-the-glass	PEL-N-40-04683-00001					0.24	0.22	38	67					22					
	with integral grilles	PEL-N-40-04279-00001					0.24	0.22	38	67					22					
1"	SunDefense Low-E IG	PEL-N-40-04084-00001	3	3	3	air	0.24	0.18	39	67					20					
	with grilles-between-the-glass	PEL-N-40-04690-00001					0.24	0.16	35	67					19					
	with integral grilles	PEL-N-40-04286-00001					0.24	0.16	35	67					19					
1"	NaturalSun Low-E IG	PEL-N-40-04072-00001	3	3	3	air	0.24	0.39	48	67					32					
	with grilles-between-the-glass	PEL-N-40-04678-00001					0.24	0.35	43	67					30					
	with integral grilles	PEL-N-40-04274-00001					0.25	0.35	43	67					29					

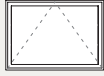
R-Value = 1/U-Factor
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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Wood Awning

HurricaneShield® Impact-Resistant Glazing



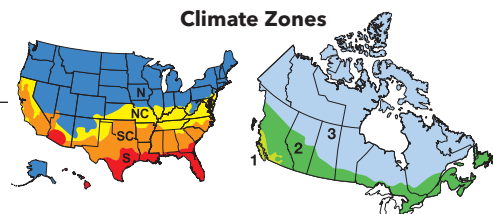
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown										
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.										
										Zone				ER	Zone					
HURRICANESHIELD® LAMINATED IMPACT-RESISTANT											N	NC	SC	S	1			2	3	
9/16"	Clear Single(SGP)	PEL-N-30-07903-00001	14	NA	NA	0.78	0.45	48	16											
	with applied grilles	PEL-N-30-08113-00001				0.78	0.41	44	16											
11/16"	Clear	PEL-N-30-07921-00001	3	7	argon	0.45	0.51	55	44											
	with grilles-between-the-glass	PEL-N-30-08543-00001				0.45	0.46	50	44											
	with integral grilles	PEL-N-30-08131-00001				0.45	0.46	50	44											
11/16"	Advanced Low-E IG	PEL-N-30-07959-00001	3	7	argon	0.34	0.26	47	55											
	with grilles-between-the-glass	PEL-N-30-08581-00001				0.35	0.24	42	55											
	with integral grilles	PEL-N-30-08169-00001				0.35	0.24	42	55											
11/16"	SunDefense™ Low-E IG	PEL-N-30-07972-00001	3	7	argon	0.33	0.20	43	55											
	with grilles-between-the-glass	PEL-N-30-08594-00001				0.35	0.18	39	55											
	with integral grilles	PEL-N-30-08182-00001				0.34	0.18	39	55											
1"	Clear	PEL-N-30-07920-00001	5	10	argon	0.42	0.49	54	46											
	with grilles-between-the-glass	PEL-N-30-08542-00001				0.42	0.44	49	46											
	with integral grilles	PEL-N-30-08130-00001				0.42	0.44	49	46											
1"	Advanced Low-E IG	PEL-N-30-07958-00001	5	10	argon	0.29	0.25	46	58											
	with grilles-between-the-glass	PEL-N-30-08580-00001				0.29	0.23	42	58											
	with integral grilles	PEL-N-30-08168-00001				0.29	0.23	42	58											
1"	SunDefense Low-E IG	PEL-N-30-07971-00001	5	10	argon	0.28	0.19	43	58											
	with grilles-between-the-glass	PEL-N-30-08593-00001				0.29	0.18	38	58											
	with integral grilles	PEL-N-30-08181-00001				0.29	0.18	38	58											
TINTED GLAZING LAMINATED IMPACT-RESISTANT																				
9/16"	Bronze Single (SGP)	PEL-N-30-07905-00001	14	NA	NA	0.78	0.40	35	16											
	with applied grilles	PEL-N-30-08115-00001				0.78	0.37	32	16											
11/16"	Bronze Advanced Low-E IG	PEL-N-30-07950-00001	3	7	argon	0.34	0.25	34	55											
	with grilles-between-the-glass	PEL-N-30-08572-00001				0.35	0.23	31	55											
	with integral grilles	PEL-N-30-08160-00001				0.35	0.23	31	55											
1"	Bronze IG	PEL-N-30-07949-00001	5	10	argon	0.42	0.37	35	46											
	with grilles-between-the-glass	PEL-N-30-08571-00001				0.42	0.33	32	46											
	with integral grilles	PEL-N-30-08159-00001				0.42	0.33	32	46											
9/16"	Gray Single (SGP)			NA	NA	0.78	0.38	29	16											
	with applied grilles					0.78	0.35	26	16											
11/16"	Gray Advanced Low-E IG	PEL-N-30-07961-00001	3	7	argon	0.34	0.25	31	55											
	with grilles-between-the-glass	PEL-N-30-08583-00001				0.35	0.23	28	55											
	with integral grilles	PEL-N-30-08171-00001				0.35	0.23	28	55											
1"	Gray IG	PEL-N-30-07960-00001	5	10	argon	0.42	0.33	30	46											
	with grilles-between-the-glass	PEL-N-30-08582-00001				0.42	0.30	27	46											
	with integral grilles	PEL-N-30-08170-00001				0.42	0.30	27	46											
9/16"	Green Single (SGP)	PEL-N-30-07907-00001	14	NA	NA	0.78	0.39	49	16											
	with applied grilles	PEL-N-30-08117-00001				0.78	0.35	44	16											
11/16"	Green Advanced Low-E IG	PEL-N-30-07963-00001	3	7	argon	0.34	0.25	42	55											
	with grilles-between-the-glass	PEL-N-30-08585-00001				0.35	0.23	38	55											
	with integral grilles	PEL-N-30-08173-00001				0.35	0.23	38	55											
1"	Green IG	PEL-N-30-07962-00001	5	10	argon	0.42	0.30	43	46											
	with grilles-between-the-glass	PEL-N-30-08584-00001				0.42	0.27	39	46											
	with integral grilles	PEL-N-30-08172-00001				0.42	0.27	39	46											

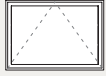
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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Wood

Vent Awning and Large Awning



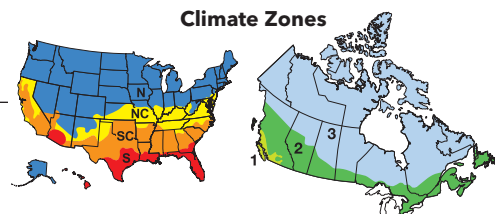
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown									
			Ext.	Mid	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂					
											Zone				ER	Zone				
VENT WITH TRIPLE-PANE GLAZING WITH CLEAR HGP											N	NC	SC	S						
5/8"	Clear IG	PEL-N-17-01343-00001	3	3	3	air	0.36	0.44	47	58										
5/8"	Advanced Low-E IG	PEL-N-17-01396-00001	2.5	2.5	2.5	argon	0.28	0.22	40	62					18					
5/8"	Advanced Low-E IG	PEL-N-17-01403-00001	3	3	3	argon	0.28	0.22	40	62					18					
5/8"	SunDefense™ Low-E IG	PEL-N-17-01354-00001	2.5	2.5	2.5	argon	0.28	0.17	37	62										
5/8"	SunDefense™ Low-E IG	PEL-N-17-01361-00001	3	3	3	argon	0.28	0.17	37	62										
5/8"	SunDefense™ Low-E IG	PEL-N-17-01368-00001	4	4	4	argon	0.29	0.17	36	62										
5/8"	AdvancedComfort Low-E IG	PEL-N-17-01576-00001	2.5	2.5	2.5	argon	0.26	0.22	39	63					20					
5/8"	AdvancedComfort Low-E IG	PEL-N-17-01624-00001	3	3	3	argon	0.26	0.22	39	63					20					
5/8"	NaturalSun Low-E IG	PEL-N-17-01510-00001	2.5	2.5	2.5	argon	0.28	0.41	46	62					29					
5/8"	NaturalSun Low-E IG	PEL-N-17-01517-00001	3	3	3	argon	0.29	0.40	45	62					27					
TINTED GLAZING WITH CLEAR HGP																				
5/8"	Bronze Advanced Low-E IG	PEL-N-17-01432-00001	5	3	2.5	argon	0.30	0.19	26	61										
5/8"	Bronze Advanced Low-E IG	PEL-N-17-01433-00001	5	3	3	argon	0.30	0.19	26	62										
5/8"	Gray Advanced Low-E IG	PEL-N-17-01456-00001	5	3	2.5	argon	0.30	0.18	22	61										
5/8"	Gray Advanced Low-E IG	PEL-N-17-01457-00001	5	3	3	argon	0.30	0.18	22	62										
5/8"	Green Advanced Low-E IG	PEL-N-17-01480-00001	5	3	2.5	argon	0.30	0.19	31	61										
5/8"	Green Advanced Low-E IG	PEL-N-17-01481-00001	5	3	3	argon	0.30	0.19	31	62										
HIGH ALTITUDE GLAZING WITH CLEAR HGP																				
5/8"	Advanced Low-E IG	PEL-N-17-01414-00001	2.5	2.5	2.5	air	0.30	0.22	40	62										
5/8"	Advanced Low-E IG	PEL-N-17-01421-00001	3	3	3	air	0.31	0.22	40	62										
5/8"	AdvancedComfort Low-E IG	PEL-N-17-01570-00001	2.5	2.5	2.5	air	0.27	0.22	39	63					19					
5/8"	AdvancedComfort Low-E IG	PEL-N-17-01618-00001	3	3	3	air	0.28	0.22	39	63					18					
5/8"	NaturalSun Low-E IG	PEL-N-17-01768-00001	2.5	2.5	2.5	air	0.30	0.39	46	61					25					
5/8"	NaturalSun Low-E IG	PEL-N-17-01775-00001	3	3	3	air	0.31	0.38	45	61										

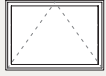
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(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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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Wood

Vent Awning



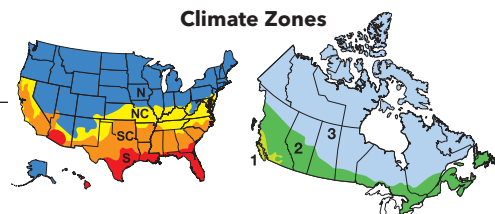
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ²			
										Zone				ER	Zone		
VENT										N	NC	SC	S		1	2	3
11/16"	Advanced LowE IG	PEL-N-37-00267-00001	2.5	2.5	argon	0.30	0.27	52	55					18			
	with grilles-between-the-glass	PEL-N-37-00266-00001				0.30	0.25	47	55					17			
	with Simulated Divided Light	PEL-N-37-00268-00001				0.30	0.25	47	55					17			
11/16"	Advanced LowE IG	PEL-N-37-00282-00001	3	3	argon	0.30	0.27	51	54					18			
	with grilles-between-the-glass	PEL-N-37-00281-00001				0.30	0.25	46	54					17			
	with Simulated Divided Light	PEL-N-37-00283-00001				0.30	0.25	46	54					17			
11/16"	SunDefense™ Low-E IG	PEL-N-37-00270-00001	2.5	2.5	argon	0.29	0.20	48	56					15			
	with grilles-between-the-glass	PEL-N-37-00269-00001				0.29	0.19	43	56					15			
	with Simulated Divided Light	PEL-N-37-00271-00001				0.29	0.19	43	56					15			
11/16"	SunDefense Low-E IG	PEL-N-37-00285-00001	3	3	argon	0.29	0.21	47	55					16			
	with grilles-between-the-glass	PEL-N-37-00284-00001				0.29	0.19	43	55					15			
	with Simulated Divided Light	PEL-N-37-00286-00001				0.29	0.19	43	55					15			
11/16"	AdvancedComfort Low-E IG	PEL-N-37-00456-00001	2.5	2.5	argon	0.26	0.27	50	45					23			
	with grilles-between-the-glass	PEL-N-37-00455-00001				0.26	0.25	46	45					22			
	with Simulated Divided Light	PEL-N-37-00457-00001				0.26	0.25	46	45					22			
11/16"	AdvancedComfort Low-E IG	PEL-N-37-00459-00001	3	3	argon	0.26	0.27	50	44					23			
	with grilles-between-the-glass	PEL-N-37-00458-00001				0.26	0.25	45	44					22			
	with Simulated Divided Light	PEL-N-37-00460-00001				0.26	0.25	45	44					22			
11/16"	NaturalSun LowE IG	PEL-N-37-00264-00001	2.5	2.5	argon	0.31	0.51	58	55					31			
	with grilles-between-the-glass	PEL-N-37-00263-00001				0.31	0.47	53	55					28			
	with Simulated Divided Light	PEL-N-37-00265-00001				0.31	0.47	53	55					28			
11/16"	NaturalSun LowE IG	PEL-N-37-00279-00001	3	3	argon	0.31	0.50	58	54					30			
	with grilles-between-the-glass	PEL-N-37-00278-00001				0.31	0.46	52	54					28			
	with Simulated Divided Light	PEL-N-37-00280-00001				0.31	0.46	52	54					28			

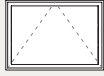
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

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

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

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AWNING

GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Wood Awning

Vent Awning High Altitude with Glazing



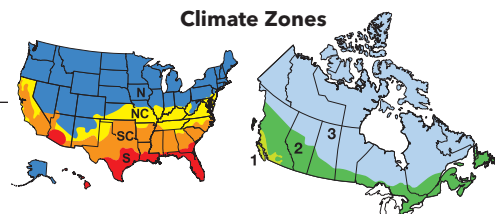
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.							
										Zone		ER	Zone				
HIGH ALTITUDE GLAZING										N	NC	SC	S	1	2	3	
11/16"	Advanced LowE IG	PEL-N-37-00297-00001	2.5	2.5	air	0.33	0.28	52	52								
	with grilles-between-the-glass	PEL-N-37-00296-00001				0.33	0.25	47	52								
	with Simulated Divided Light	PEL-N-37-00298-00001				0.33	0.25	47	52								
11/16"	Advanced LowE IG	PEL-N-37-00312-00001	3	3	air	0.33	0.28	51	51								
	with grilles-between-the-glass	PEL-N-37-00311-00001				0.33	0.25	46	51								
	with Simulated Divided Light	PEL-N-37-00313-00001				0.33	0.25	46	51								
11/16"	SunDefense™ Low-E IG	PEL-N-37-00300-00001	2.5	2.5	air	0.33	0.21	48	52								
	with grilles-between-the-glass	PEL-N-37-00299-00001				0.33	0.19	43	52								
	with Simulated Divided Light	PEL-N-37-00301-00001				0.33	0.19	43	52								
11/16"	SunDefense Low-E IG	PEL-N-37-00315-00001	3	3	air	0.33	0.21	47	51								
	with grilles-between-the-glass	PEL-N-37-00314-00001				0.33	0.19	43	51								
	with Simulated Divided Light	PEL-N-37-00316-00001				0.33	0.19	43	51								
11/16"	AdvancedComfort Low-E IG	PEL-N-37-00462-00001	2.5	2.5	air	0.28	0.27	50	41					21			
	with grilles-between-the-glass	PEL-N-37-00461-00001				0.28	0.25	46	41					19			
	with Simulated Divided Light	PEL-N-37-00463-00001				0.28	0.25	46	41					19			
11/16"	AdvancedComfort Low-E IG	PEL-N-37-00465-00001	3	3	air	0.29	0.27	50	40					19			
	with grilles-between-the-glass	PEL-N-37-00464-00001				0.29	0.25	45	40					18			
	with Simulated Divided Light	PEL-N-37-00466-00001				0.29	0.25	45	40					18			
11/16"	NaturalSun LowE IG	PEL-N-37-00294-00001	2.5	2.5	air	0.34	0.51	58	52					27			
	with grilles-between-the-glass	PEL-N-37-00293-00001				0.34	0.47	53	52					25			
	with Simulated Divided Light	PEL-N-37-00295-00001				0.34	0.47	53	52					25			
11/16"	NaturalSun LowE IG	PEL-N-37-00309-00001	3	3	air	0.34	0.50	58	51					26			
	with grilles-between-the-glass	PEL-N-37-00308-00001				0.34	0.46	52	51					24			
	with Simulated Divided Light	PEL-N-37-00310-00001				0.34	0.46	52	51					24			

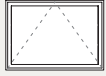
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 VLT % = Visible Light Transmission
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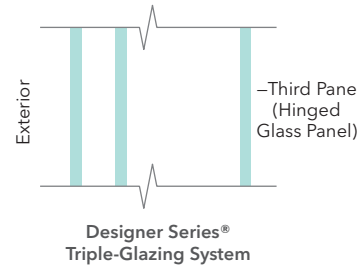
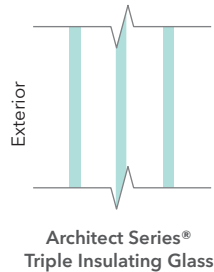
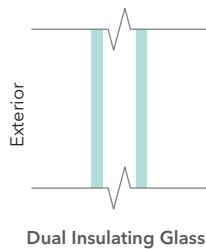
AWNING

SOUND TRANSMISSION CLASS

Outdoor-Indoor Transmission Class

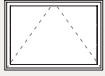


Product	Frame Size Tested ¹	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness (HGP)		
ARCHITECT SERIES CLAD WINDOW	VENT DUAL-PANE GLAZING WITH INTEGRAL GRILLES						
	53" x 29"	1 1/16"	2.5mm	2.5mm	–	27	24
	VENT DUAL-PANE GLAZING WITH REMOVABLE OR NO GRILLES						
	53" x 29"	1 1/16"	2.5mm	2.5mm	–	27	23
	FIXED DUAL-PANE GLAZING WITH INTEGRAL GRILLES						
	47" x 59"	1 1/16"	3mm	3mm	–	30	27
ARCHITECT SERIES CLAD WINDOW WITH HURRICANESHIELD® IMPACT-RESISTANT	VENT WITH REMOVABLE OR NO GRILLES						
	53" x 29"	9/16"	13.6mm SGP	–	–	34	31
	53" x 29"	9/16"	13.6mm PVB	–	–	36	32
	53" x 29"	1"	5mm	10.1mm SGP	–	35	30
	53" x 29"	1"	5mm	10.1mm PVB	–	34	30
	FIXED WITH REMOVABLE OR NO GRILLES						
DESIGNER SERIES CLAD WINDOW	VENT - TRIPLE-PANE GLAZING						
	59" x 23"	5/8"	2.5mm	2.5mm	2.5mm	31	26
	59" x 23"	5/8"	6.1 PVB	3mm	3mm	34	30
	FIXED - TRIPLE-PANE GLAZING						
	47" x 59"	5/8"	3mm	3mm	3mm	32	28
	PELLA PROLINE 450 CLAD WINDOW	VENT					
59" x 23"		1 1/16"	2.5mm	2.5mm	–	26	22
FIXED							
	47" x 59"	1 1/16"	3mm	3mm	–	27	24



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

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



AWNING

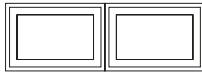
COMBINATION ASSEMBLIES



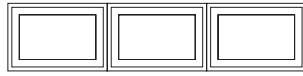
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullered together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Some units can be fixed or vent depending on availability, and may vary between Architect Series®, Designer Series® and Pella® ProLine. Go to www.PellaADM.com for typical combinations and requirements and limitations related to mulling various combinations.

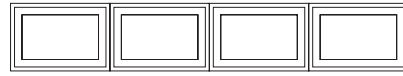
Contact your local Pella sales representative for more information.



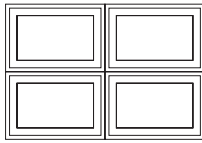
Two-Wide



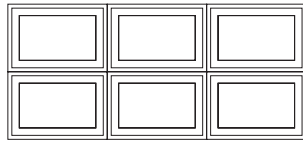
Three-Wide



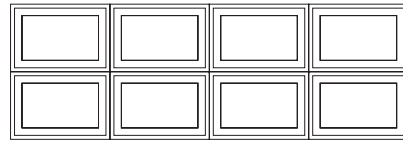
Four-Wide



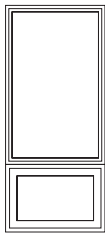
Two-Wide
Two-High



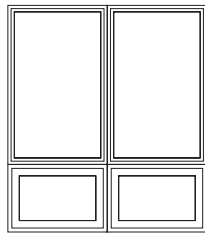
Three-Wide
Two-High



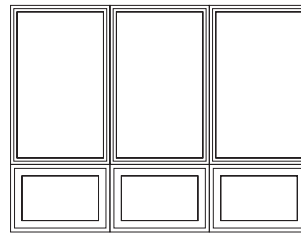
Four-Wide
Two-High



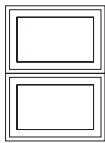
Clad Frame over
Single-Wide



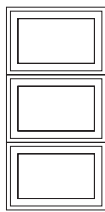
Two-Wide Clad Frame
over Two-Wide



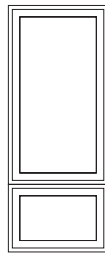
Three-Wide Clad Frame
over Three-Wide



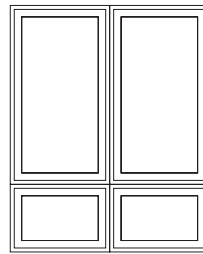
Two-High



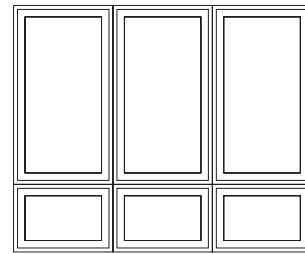
Three-High



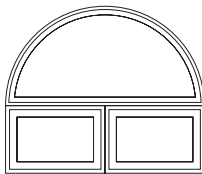
Casement over
Single



Two-Wide Casement over
Two-Wide Awning



Three-Wide Casement over
Three-Wide Awning



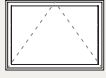
Half Circle over
Two-Wide



[Click to view Clad-Wood Combinations Sections](#)

- [Combination Recommendations Downloadable PDF.](#)
- [Combination Size Tables Downloadable PDF.](#)

See the Installation and Performance section at www.PellaADM.com for standard size range charts.



AWNING

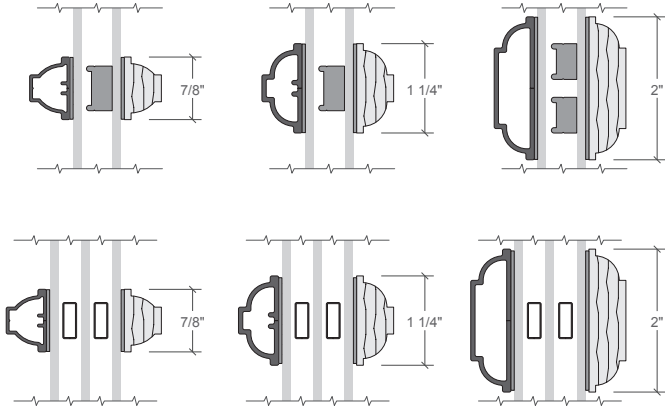
GRILLE TYPES

Typical Grille Profiles

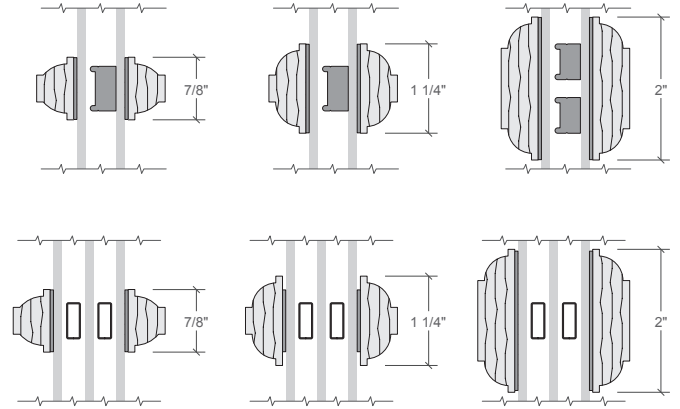


Integral Light Technology

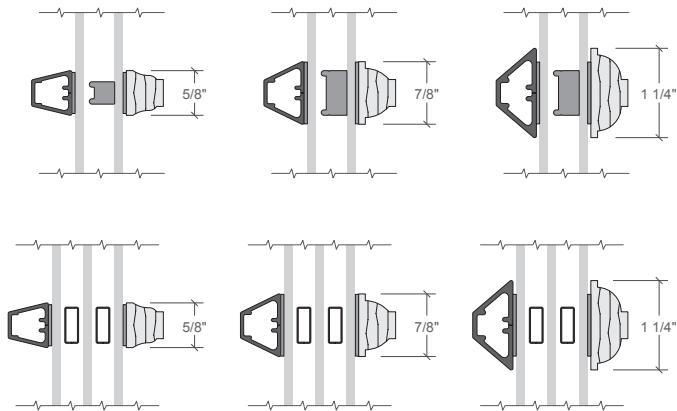
Ogee Grilles Clad Exterior - Wood Interior₁



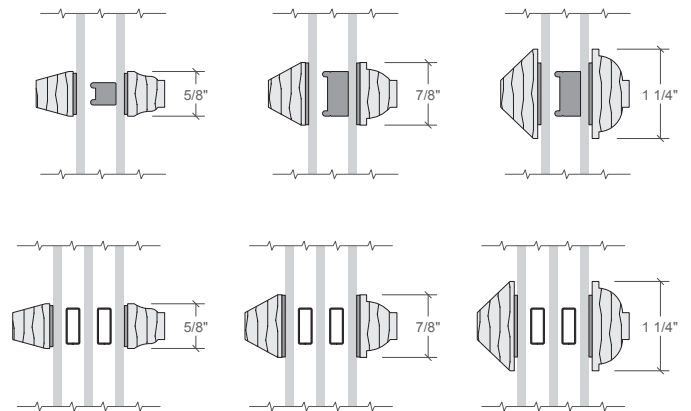
Ogee Grilles Wood Exterior - Wood Interior₂



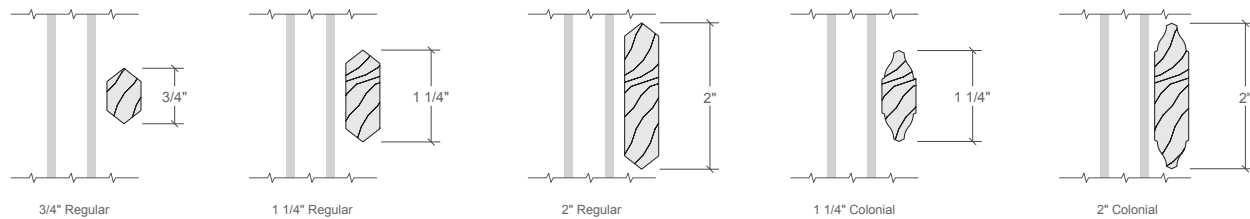
Putty Glaze and Ogee Grilles Clad Exterior - Wood Interior_{1,3}



Putty Glaze and Ogee Grilles Wood Exterior - Wood Interior_{2,3}



Removable Interior Pine Grilles



3/4" Regular

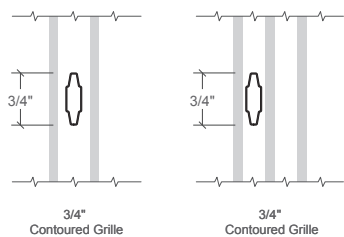
1 1/4" Regular

2" Regular

1 1/4" Colonial

2" Colonial

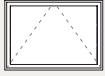
Grilles-Between-the-Glass



3/4" Contoured Grille

3/4" Contoured Grille

(1) Available in Pine, Mahogany, Alder or Douglas Fir to match complete unit.
 (2) Available in Pine or Mahogany to match complete unit.
 (3) Putty Exterior/Putty Interior, Ogee Exterior/Putty Interior are also available.



AWNING

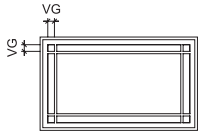
GRILLE TYPES

Typical Grille Patterns

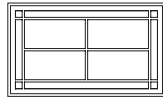


Integral Light Technology® Grilles and Removable Grille Patterns

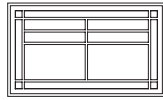
PRAIRIE LITE PATTERNS



9-Lite



12-Lite



14-Lite

Size range availability is for 3/4", 7/8" and 1-1/4" grille width. Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

9-Lite

- Available in all standard and special sizes.

12-Lite

- Available in units $\geq 1'9"$ and $\leq 2'11"$ in width, and $\geq 1'9"$ in height.

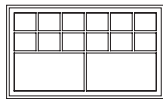
14-Lite

- Available in units $\geq 1'9"$ in width and $\geq 2'11"$ in height.

OTHER AVAILABLE PATTERNS



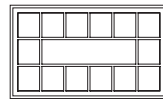
Cross



New England



Top Row



Victorian

Cross

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

New England

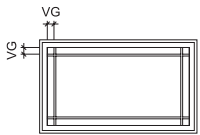
- Standard visible glass to separator bar = half of total visible glass height.

Top Row

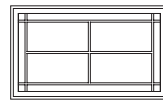
- Standard visible glass to separator bar = 14" or half of total visible glass height, whichever is smaller.

Grilles-Between-the-Glass Patterns

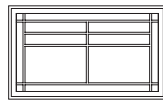
PRAIRIE LITE PATTERNS



9-Lite



12-Lite

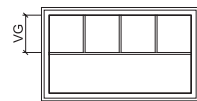


14-Lite

OTHER AVAILABLE PATTERNS



Cross



Top Row

Cross

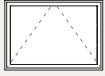
- Available for units with frame heights $\geq 35"$. Standard visible glass to separator bar = 1/4 of total visible glass height.

Top Row

- Standard visible glass to separator bar = 14" for frame heights $>35"$. Standard visible glass to separator bar = 21" for 35" frame heights and optional for 41" frame height. Separator bar at 12" or 16" optional for frame heights $>41"$.

For traditional patterns, see size tables.

VG = Visible Glass
 Lite dimensions noted can vary.
 Custom configurations are also available, for details contact your local Pella sales representative.



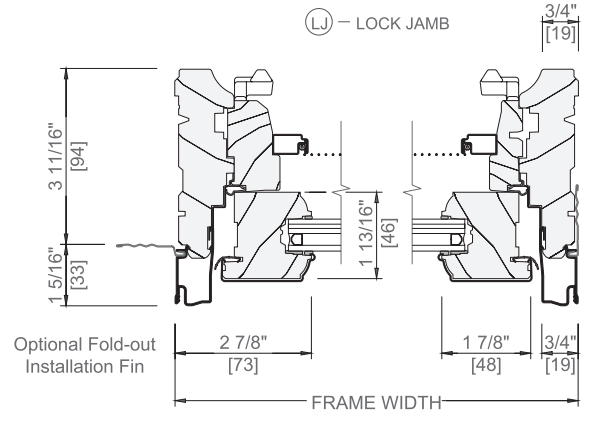
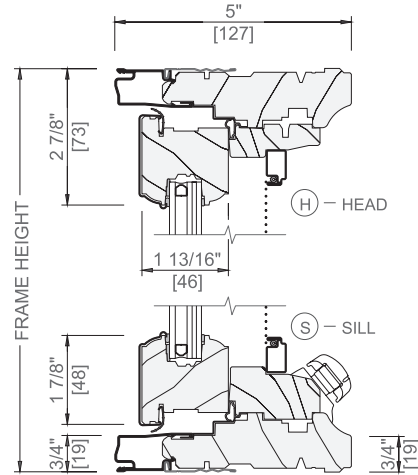
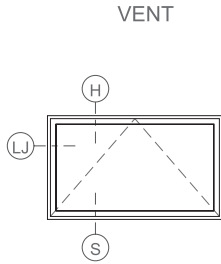
AWNING

HURRICANESHIELD® IMPACT-RESISTANT AWNING

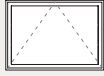


For a complete list of the HurricaneShield Impact-Resistant Glazing ratings, refer to the Coastal and High Winds section.

Product	Design Pressure Large Missile Rating D		Hallmark Certified	Miami-Dade County Approved	Florida Product Approval System
	Minimum	Maximum			
VENT UNITS					
9/16" Single-Laminated PVB	75	75	–	14-0811.23	FL10026.1
9/16" Single-Laminated SGP	75	+75 / -85	–	14-0811.23	FL10026.2
11/16" Insulated Glass PVB	75	75	411-H-1339	14-0811.23	FL10026.1
1" Insulated Glass PVB	75	75	411-H-1339	14-0811.23	FL10026.1
1" Insulated Glass SGP	75	+75 / -85	411-H-1339	14-0811.23	FL10026.2
LARGE FIXED UNITS					
9/16" Single-Laminated PVB	75	75	–	14-0811.25	FL10022.2
9/16" Single-Laminated SGP	75	+75 / -85	–	14-0811.25	FL10022.4
11/16" Insulated Glass PVB	+55 / -60	+60 / -75	411-H-1339	14-0811.25	FL10022.1
1" Insulated Glass PVB	+55 / -60	+60 / -75	411-H-1339	14-0811.25	FL10022.2
1" Insulated Glass SGP	+55 / -60	+60 / -85	411-H-1339	14-0811.25	FL10022.4



All sizes and glass types are tested for air/water/structural and impact-resistance, and are certified for wind zone 4, large missile rating D. Florida Product Approval System number not needed if Miami-Dade County approved.



AWNING

SIZE TABLES

Wood and Aluminum-Clad Wood
Standard Awning



Vent Units

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"
1' 5"					
(451) (432)					
(552) (533)					
(603) (584)					
(654) (635)					
(756) (737)					

Vent and Fixed Units

	(832) (813)	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening	2' 8 3/4"	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	2' 8"	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
1' 5"						
(451) (432)						
(552) (533)						
(603) (584)						
(654) (635)						
(756) (737)						

Fixed Units

(908) (889)						
(1 060) (1 041)						
(1 213) (1 194)						
(1 365) (1 346)						
(1 518) (1 499)						
(1 670) (1 651)						
(1 822) (1 803)						
(1 873) (1 854)						

Special Size Frame Dimensions*

	MINIMUM	MAXIMUM
VENT	1'5" W x 1'5" H (432 x 432)	4'5" W x 2'5" H (1 346 x 737)
FIXED	1'5" W x 1'5" H (432 x 432)	4'11" W x 6'1" H (1 499 x 1 854)

* Available within size range shown. Contact your local Pella representative for availability of Triple-Glazing on larger custom unit sizes. Keep frame dimensions to the nearest 1/4" increment. Frame height cannot exceed frame width on special size vent units.

Opening Dimensions

CLAD EXTERIOR UNITS: Dimensions shown in tables are rough opening dimensions.

WOOD EXTERIOR UNITS: Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

FRAME	ROUGH		MASONRY	
	Width	Height	Width	Height
STD	+ 3/4"	+ 1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+ 1-7/8"	+ 6-3/8"	+ 4-3/4"

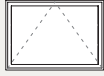
For clad and wood units with HurricaneShield® impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Ⓡ Fixed Units only

Traditional grille patterns shown. Refer to Clad/Wood Overview Section for additional patterns and profiles.

Contact your local Pella representative for the availability of custom sizes smaller or larger than the parameters shown, Triple-Glazing or other custom fixed shapes.




























AWNING

SIZE TABLES

Wood and Aluminum-Clad Wood
Large Awning



Vent Units

	(908) (889)	(1060) (1041)	(1213) (1194)	(1365) (1346)	(1518) (1499)
Opening	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
(908) (889)	 3535	 4135	 4735	 5335	 5935
(1060) (1041)	 3541	 4141	 4741	 5341	 5941
(1213) (1194)	 3547	 4147	 4747	 5347	 5947
(1365) (1346)	 3553	 4153	 4753	 5353	 5953
(1518) (1499)	 3559	 4159	 4759	 5359	 5959

Special Size Frame Dimensions*

	MINIMUM	MAXIMUM
VENT	1'9" W x 1'5" H (889 x 889)	4'11" W x 4'11" H (1 498 x 1 498)

* Available within size range shown.
Keep frame dimensions to the nearest 1/4" increment.

Opening Dimensions

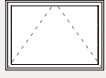
CLAD EXTERIOR UNITS: Dimensions shown in tables are rough opening dimensions.

WOOD EXTERIOR UNITS: Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

FRAME	ROUGH		MASONRY	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with HurricaneShield® impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.
Traditional grille patterns shown. Refer to Clad/Wood Overview Section for additional patterns and profiles.
All units are available as fixed in the Casement section.
Contact your local Pella representative for the availability of custom sizes smaller or larger than the parameters shown, Triple-Glazing or other custom fixed shapes.



AWNING

DESIGN DATA

Wood and Aluminum-Clad Wood
Standard Awning



VENT AND FIXED UNITS

Unit	Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)			Performance Class & Grade ⁽¹⁾
			Dual-Pane Glazing		Triple-Pane Glazing	
			Annealed	Tempered	Annealed or Tempered	
1717v	1.0	0.9	2.5	3	3	CW50
2121v	1.8	1.6	2.5	3	3	CW50
2323v	2.3	2.1	2.5	3	3	CW50
2525v	2.8	2.6	2.5	3	3	CW50
2929v	4.0	3.8	2.5	3	3	CW50
3217	2.2	2.1	2.5	3	3	CW50
3221	3.0	2.8	2.5	3	3	CW50
3223	3.4	3.1	2.5	3	3	CW50
3225	3.8	3.5	2.5	3	3	CW50
3229	4.5	4.2	2.5	3	3	CW50
3517	2.4	2.3	2.5	3	3	CW50
3521	3.3	3.1	2.5	3	3	CW50
3523	3.7	3.5	2.5	3	3	CW50
3525	4.2	3.9	2.5	3	3	CW50
3529	5.0	4.7	2.5	3	3	CW50
4117	2.9	2.8	2.5	3	3	CW50
4121	3.9	3.7	2.5	3	3	CW50
4123	4.5	4.2	2.5	3	3	CW50
4125	5.0	4.7	2.5	3	3	CW50
4129	6.0	5.7	2.5	3	3	CW50
4717	3.4	3.2	2.5	3	3	CW50
4721	4.6	4.4	2.5	3	3	CW50
4723	5.2	4.9	2.5	3	3	CW50
4725	5.8	5.5	2.5	3	3	CW50
4729	7.0	6.7	2.5	3	3	CW50
5317	3.9	3.7	2.5	3	3	CW50
5321	5.2	5.0	2.5	3	3	CW50
5323	5.9	5.7	2.5	3	3	CW50
5325	6.6	6.3	2.5	3	3	CW50
5329	7.9	7.6	2.5	3	3	CW50
5917F	-	4.2	2.5	3	3	CW50
5921F	-	5.6	2.5	3	3	CW50
5923F	-	6.4	2.5	3	3	CW45/CW50
5925F	-	7.1	2.5	3	3	CW45/CW50
5929F	-	8.6	2.5	3	3	CW45/CW50

FIXED UNITS

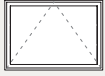
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)			Performance Class & Grade ⁽¹⁾
		Dual-Pane Glazing		Triple-Pane Glazing	
		Annealed	Tempered	Annealed or Tempered	
3235	5.3	2.5	3	3	CW50
3241	6.4	2.5	3	3	CW50
3247	7.5	2.5	3	3	CW50
3253	8.6	2.5	3	3	CW45/CW50
3259	9.7	2.5	3	3	CW50
3265	10.8	3	3	3	CW50
3271	11.9	3	3	3	CW45/CW50
3273	12.3	3	3	3	CW45/CW50
3535	5.9	2.5	3	3	CW50
3541	7.2	2.5	3	3	CW50
3547	8.4	2.5	3	3	CW50
3553	9.6	2.5	3	3	CW45/CW50
3559	10.8	3	3	3	CW50
3565	12.0	3	3	3	CW50
3571	13.3	3	3	3	CW45/CW50
3573	13.7	3	3	3	CW45/CW50
4135	7.2	2.5	3	3	CW50
4141	8.6	2.5	3	3	CW50
4147	10.1	3	3	3	CW50
4153	11.6	3	3	3	CW50
4159	13.0	3	3	3	CW50
4165	14.5	3	3	3	CW50
4171	16.0	3	3	3	CW45/CW50
4173	16.5	3	3	3	CW45/CW50
4735	8.4	2.5	3	3	CW50
4741	10.1	3	3	3	CW50
4747	11.8	3	3	3	CW50
4753	13.5	3	3	3	CW50
4759	15.3	3	3	3	CW50
4765	17.0	3	3	3	CW45/CW50
4771	18.7	4	4	4	CW50
4773	19.3	4	4	4	CW50
5335	9.6	2.5	3	3	CW45/CW50
5341	11.6	3	3	3	CW50
5347	13.5	3	3	3	CW50
5353	15.5	3	4	4	CW45/CW50
5359	17.5	4	4	4	CW40/CW50
5365	19.4	4	4	4	CW50
5371	21.4	4	4	4	CW50
5373	22.1	4	4	4	CW50
5929	8.6	2.5	3	3	CW45/CW50
5935	10.8	3	3	3	CW50
5941	13.0	3	3	3	CW50
5947	15.3	3	3	3	CW50
5953	17.5	4	4	4	CW40/CW50
5959	19.7	4	4	4	CW50
5965	21.9	4	4	4	CW50
5971	24.1	4	4	4	CW45/CW50
5973	24.9	4	4	4	CW50

Miscellaneous Formulas

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

V = Vent Only
F = Fixed Units only
(-) = Not Applicable

(1) Maximum performance when glazed with the appropriate glass thickness. Second value, where shown, requires tempered glass.



AWNING

DESIGN DATA

Wood and Aluminum-Clad Wood
Large Awning



VENT AND FIXED UNITS

Unit	Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
			Annealed	Tempered	
3535	1.2	5.9	2.5	3	CW40
3541	1.2	7.2	2.5	3	CW40
3547	1.2	8.4	2.5	3	CW40
3553	1.2	9.6	2.5	3	CW40
3559	1.2	10.8	3	3	CW40
4135	1.4	7.2	2.5	3	CW40
4141	1.4	8.6	2.5	3	CW40
4147	1.4	10.1	3	3	CW40
4153	1.4	11.6	3	3	CW40
4159	1.4	13	3	3	CW40
4735	1.7	8.4	2.5	3	CW40
4741	1.7	10.1	3	3	CW40
4747	1.7	11.8	3	3	CW40
4753	1.7	13.5	3	3	CW40
4759	1.7	15.3	3	3	CW40
5335	1.9	9.6	2.5	3	CW40
5341	1.9	11.6	3	3	CW40
5347	1.9	13.5	3	3	CW40
5353	1.9	15.5	3	4	CW40
5359	1.9	17.5	3	4	CW40
5935	2.1	10.8	3	3	CW40
5941	2.1	13	3	3	CW40
5947	2.1	15.3	3	3	CW40
5953	2.1	17.5	3	4	CW40
5959	2.1	19.7	4	4	CW40

Miscellaneous Formulas

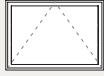
VISIBLE GLASS

Width = Frame - 5-3/4"
Height = Frame - 5-3/4"

ACTUAL GLASS

Width = Frame - 4-3/8"
Height = Frame - 4-3/8"

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



AWNING

DETAILED PRODUCT DESCRIPTIONS

Aluminum-Clad Awning and Large Awning



FRAME

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [[Awning] [Large Awning]: [Pine] [Mahogany] [Alder] [Douglas Fir]] [Impact-Resistant: [Pine] [Mahogany]].
- Exterior surfaces are clad with aluminum.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) wall depths.
- Optional factory-installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

SASH

- Select softwood, immersion treated with Pella's EnduraGuard wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [[Awning] [Large Awning]: [Pine] [Mahogany] [Alder] [Douglas Fir]] [Impact-Resistant: [Pine] [Mahogany]].
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is [1-13/16" (46mm) for 11/16"] [1-11/16" (43mm) for 9/16"] [2-1/8" (54mm) for 1"] glazings.

WEATHERSTRIPPING

- Dual weatherstripping.
 - Continuous, flexible santopren material in dual durometer design with welded corners, compressed between frame and sash for positive seal on all four sides.
 - Secondary thermoplastic vulcanizate (TPV) leaf-type weatherstrip between edge of sash and frame.

GLAZING SYSTEM 1

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E with argon] [SunDefense™ Low-E with argon] [NaturalSun Low-E with argon] [AdvancedComfort Low-E with argon]] [[bronze] [gray] [green] Advanced Low-E with argon]].
 - or -
- Silicone-glazed 1" triple-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E with argon] [Advanced Low-E with krypton] [SunDefense™ Low-E with argon] [SunDefense™ Low-E with krypton] [NaturalSun Low-E with argon] [NaturalSun Low-E with krypton]].
 - or -
- Impact-Resistant
 - Silicone-glazed 1" dual-seal impact-resistant insulating glass₁ [PVB] [SGP]. [[Tempered] [Annealed]] exterior light is [[multi-layer Low-E coated] [clear] [bronze] [gray] [green]]. Laminated clear interior light.
 - or -
 - Silicone-glazed 11/16" dual-seal impact-resistant insulating glass₁ [PVB]. [[Tempered] [Annealed]] exterior light is [[multi-layer Low-E coated] [clear]]. Laminated [clear] interior light, or [[tempered] [annealed]] exterior light is [[multi-layer Low-E coated]]. Laminated [[bronze] [gray] [green]] interior light.
 - or -
 - Silicone-glazed 9/16" [PVB] laminated glass [[clear] [bronze] [gray] [green]].
 - or -
 - Silicone-glazed 9/16" [SGP] laminated glass [[clear] [multi-layer Low-E] [bronze] [gray] [green]].

EXTERIOR

- Aluminum clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
 - Color is [White] [Tan] [Brown] [Putty] [feature 2] [custom 2].
 - or -
- Aluminum clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
 - Color is [White] [Tan] [Brown] [Putty] [feature 2] [custom 2].

(1) Insulating glass with argon is Low-E coated (except high altitude). All other insulating glass (including high altitude Low-E) is air-filled.

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

(3) Available in clear or Low-E insulating glass only with argon, clear insulated glass and obscure insulated glass. White exterior grille color and traditional patterns are the only options available for clear insulating glass.

(4) Tan, Brown or Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with tan or brown exterior.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.

INTERIOR

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

HARDWARE

- Roto operator assembly
 - Steel worm gear sash operator with hardened gears.
 - Operator base is zinc die cast with painted finish.
 - Operator linkage is stainless steel.
 - Exposed fasteners are stainless steel.
 - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
- Finish of integrated folding crank is [baked enamel, champagne] [baked enamel, white] [baked enamel, brown] [bright brass] [satin nickel] [oil-rubbed bronze].
- All vent units are available with operator located on the [Awning: left or right side as viewed from the exterior] [Large Awning or Impact-Resistant: bottom center of the unit].
- SureLock® System—A single handle locking system operates positive-acting arms that reach out and pull the sash into a locked position: [Awning: one lock installed on units with frame widths 29" and smaller, two unison operating locks installed on units with frame widths greater than 29"] [Large Awning: one lock installed on units with frame heights 41" and less, two unison operating locks installed on units with frame height over 41"].
- Lock handle finish is [baked enamel, champagne] [baked enamel, white] [baked enamel, brown] [bright brass] [satin nickel] [oil-rubbed bronze].

OPTIONAL PRODUCTS

Grilles

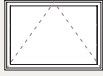
- Integral Light Technology® grilles
 - Interior grilles are [5/8" [putty] [ogee] profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile] that are solid [Pine] [Mahogany] [Alder] [Douglas Fir]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain 1]].
 - Exterior grilles are [5/8" putty profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile] that are extruded aluminum to match window cladding.
 - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian] [Simulated French (fixed units only)].
 - Insulating glass contains non-glare spacer between the panes of glass.
 - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with non-glare spacers.
 - or -
- Grilles-Between-the-Glass₃
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass (exterior air-space on triple-pane insulating glass).
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
 - Interior color is [White] [Tan₄] [Brown₄] [Putty₄] [Ivory] [Brickstone] [Harvest] [Cordovan].
 - Exterior color is [White] [Tan] [Brown] [Putty] [feature 2].
 - or -
- Removable Grilles
 - [[3/4" [1-1/4"] [2"] Regular] [[1-1/4"] [2"] Colonial] profile, with [Traditional] [Prairie]] patterns that are removable solid pine wood grilles steel-pinned at joints and fitted to sash with steel clips and tacks.
 - Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain 2]].
 - Exterior [unfinished, ready for site finishing] [factory primed] [factory prefinished, finish color matched to exterior claddings₅].

Screens

- InView™ screens
 - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel [Champagne] [White] [Brown].
 - or -
- Vivid View® screens
 - PVDF 21/17 mesh, minimum 78 percent light transmissive screen, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel [Champagne] [White] [Brown].

Hardware

- Optional factory applied 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.



AWNING

DETAILED PRODUCT DESCRIPTIONS

Wood Awning and Large Awning



FRAME

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [Pine] [Mahogany].
- Exterior surfaces are [Pine: [factory-primed]] [Mahogany: [factory-primed]] [ready-to-stain]].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) wall depths, with Pella's standard wood exterior.

SASH

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [Pine] [Mahogany].
- Exterior Surfaces: [Pine exterior surfaces are factory-primed] [Mahogany exterior surfaces are [factory-primed]] [ready-to-stain].
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-13/16" (46mm).

WEATHERSTRIPPING

- Dual weatherstripping.
 - Continuous, flexible santoprene material in dual durometer design with welded corners, compressed between frame and sash for positive seal on all four sides.
 - Secondary thermoplastic vulcanizate (TPV) leaf-type weatherstrip between edge of sash and frame.

GLAZING SYSTEM

- Quality float glass complying with ASTM C 1036.
 - Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E with Argon] [SunDefense™ Low-E with argon] [AdvancedComfort Low-E with argon] [NaturalSun Low-E with argon]] [[bronze] [gray] [green] Advanced Low-E with argon]].
 - Custom and high altitude [with argon] glazing available.
 - or -
 - Silicone-glazed 1" triple-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E with argon] [Advanced Low-E with krypton] [SunDefense™ Low-E with argon] [SunDefense™ Low-E with krypton] [NaturalSun Low-E with argon] [NaturalSun Low-E with krypton]].

INTERIOR

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen White] [Bright White] [stain₂]].

HARDWARE

- Roto operator assembly
 - Steel worm gear sash operator with hardened gears.
 - Operator base to be zinc die cast with painted finish.
 - Operator linkage, hinge slide, and hinge arms are stainless steel.
 - Exposed fasteners are stainless steel.
 - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
- Finish of integrated folding crank is [baked enamel, champagne] [baked enamel, white] [baked enamel, brown] [bright brass] [satin nickel] [oil-rubbed bronze].
- All vent units are available with operator located on the [Awning: left or right side as viewed from the exterior] [Large Awning: bottom center of the unit].
- SureLock® System—A single handle locking system operates positive-acting arms that reach out and pull the sash into a locked position: [Awning: one lock installed on units with frame width 29" and smaller, two unison operating locks installed on units with frame width greater than 29"] [Large Awning: one lock installed on units with frame heights 41" and less, two unison operating locks installed on units with frame height greater than 41"].
- Lock handle finish is [baked enamel, champagne] [baked enamel, white] [baked enamel, brown] [bright brass] [satin nickel] [oil-rubbed bronze].

OPTIONAL PRODUCTS

Grilles

- Integral Light Technology® grilles
 - Interior grilles are solid [5/8" [putty] [ogee] profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile] that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain₁]].
 - Exterior grilles are solid [5/8" putty profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile] that are [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
 - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian] [Simulated French (fixed units only)].
 - Insulating glass contains non-glare spacer between the panes of glass.
 - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.
 - or -
- Grilles-Between-the-Glass₁
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass (exterior air-space on triple-pane insulating glass).
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
 - Interior color is [White] [Tan₃] [Brown₃] [Putty₃] [Ivory] [Brickstone] [Harvest] [Cordovan].
 - Exterior color is [White] [Tan] [Brown] [Putty] [feature₂].
 - or -

Removable Grilles

- [[3/4"] [1-1/4"] [2"] Regular] [[1-1/4"] [2"] Colonial] profile, with [Traditional] [Prairie] patterns that are removable solid pine wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
 - Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain₂]].
 - Exterior [unfinished, ready for site finishing] [factory-primed] [finish color matched to exterior cladding].

Screens

- InView™ Screens
 - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, [Champagne] [White] [Brown].
 - or -
- Vivid View® Screens
 - PVDF 21/17 mesh, minimum 78 percent light transmissive screen, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, [Champagne] [White] [Brown].

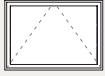
Hardware

- Optional factory applied 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) Available on units glazed with Low-E insulated glass with argon, clear insulated glass and obscure insulated glass. White exterior grille color and traditional pattern is the only option available for clear insulating glass.

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

(3) Tan, Brown or Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.



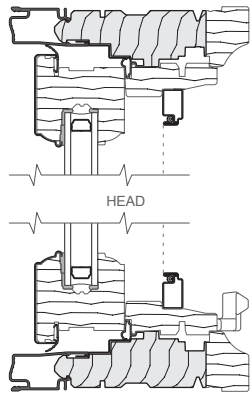
AWNING

UNIT SECTIONS - WOOD COLLECTION

Aluminum-Clad Wood

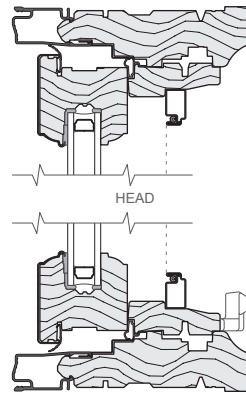


ALDER OR DOUGLAS FIR INTERIOR

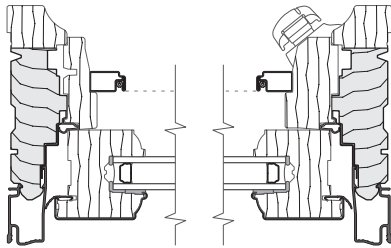


SILL

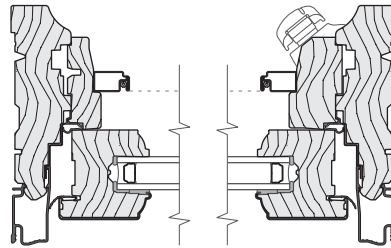
PINE OR MAHOGANY INTERIOR



SILL

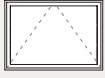


JAMBS



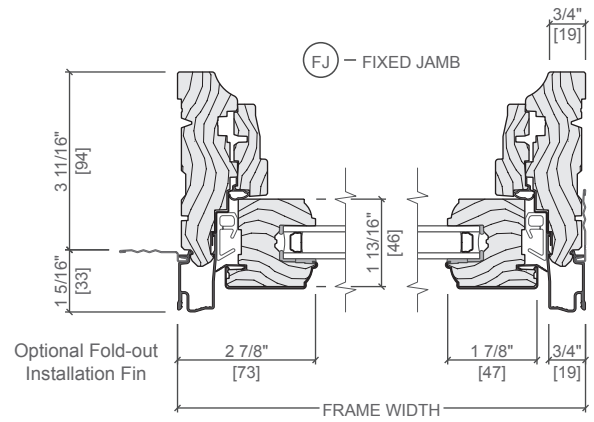
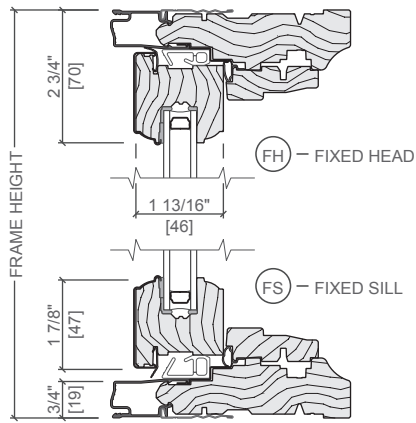
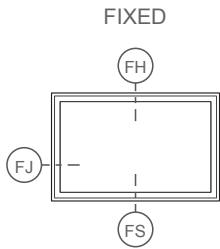
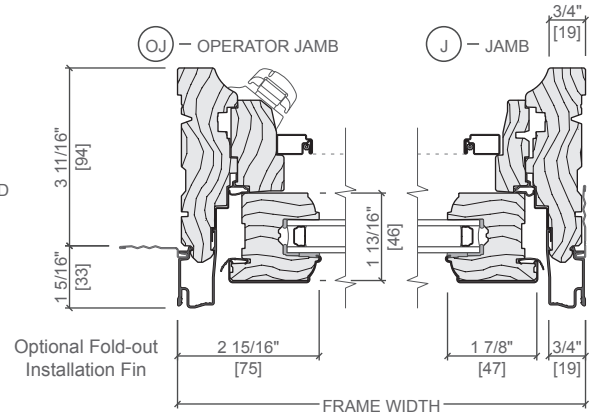
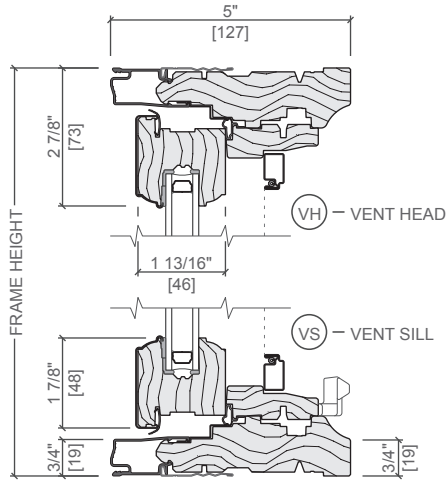
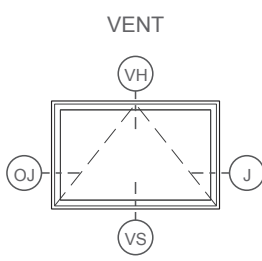
JAMBS



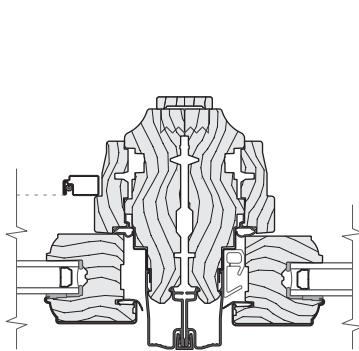


AWNING

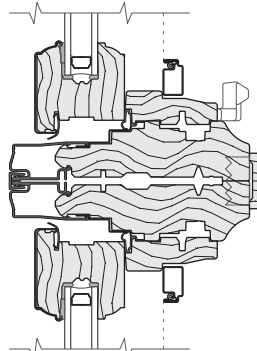
UNIT SECTIONS
Aluminum-Clad Wood



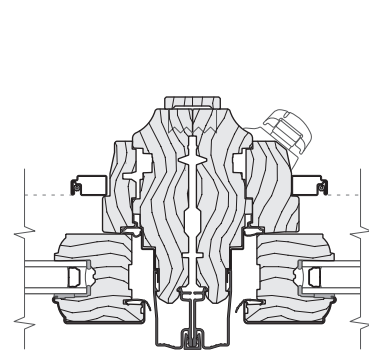
TYPICAL JOINING MULLIONS



VERTICAL JOINING MULLION
VENT / FIXED

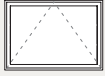


HORIZONTAL JOINING MULLION
VENT / VENT



VERTICAL JOINING MULLION
VENT / VENT

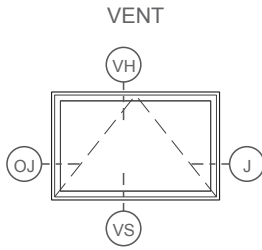
Scale 3" = 1' 0"
All dimensions are approximate.



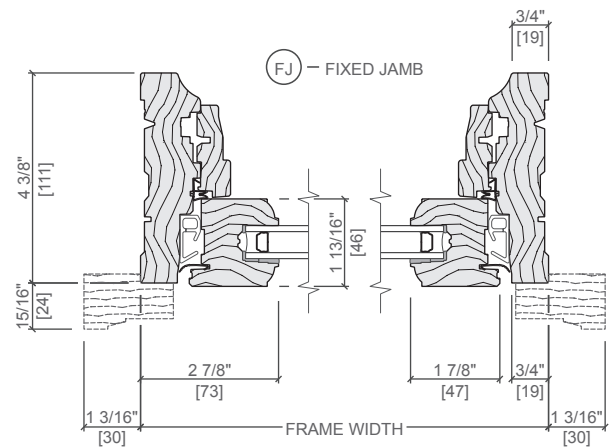
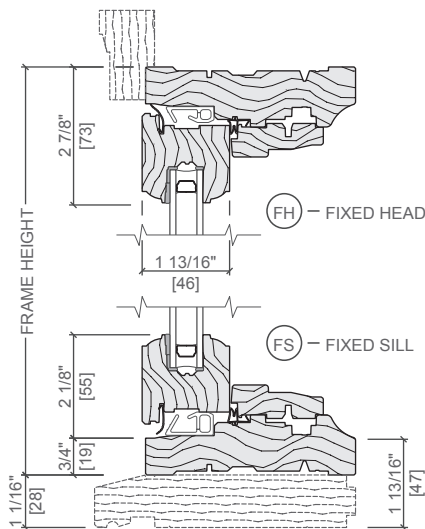
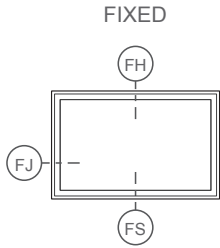
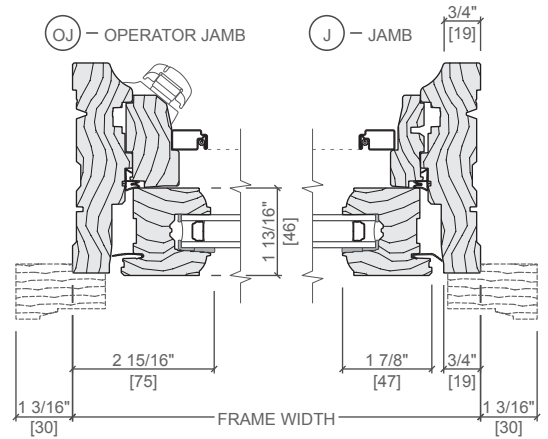
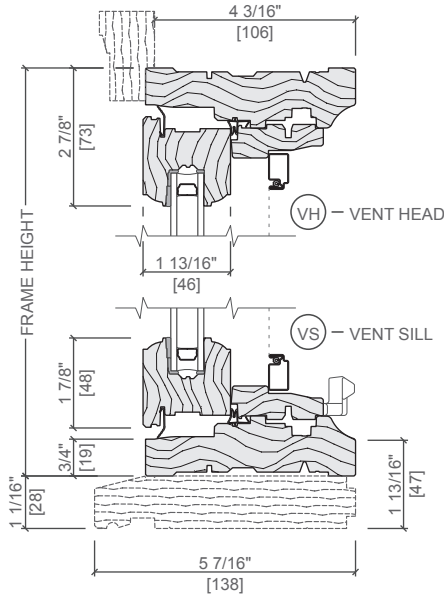
AWNING

UNIT SECTIONS

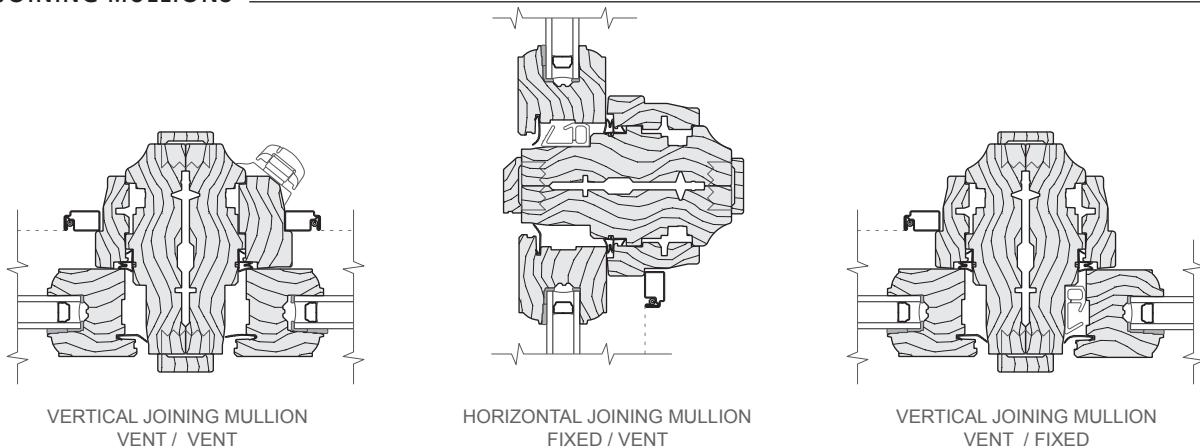
Wood Exterior



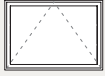
1-7/8" Brickmould
#3443 1-1/8" Subsill
#3544
Shown



TYPICAL JOINING MULLIONS



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



AWNING

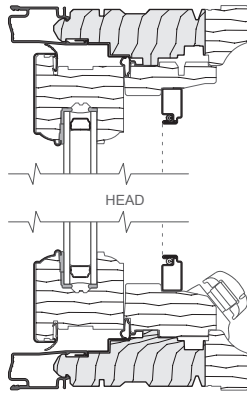
UNIT SECTIONS - WOOD COLLECTION

Aluminum-Clad Wood

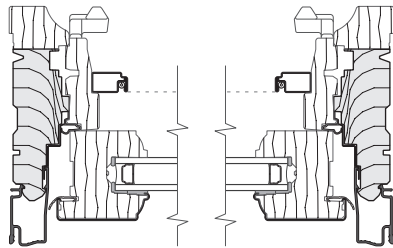
Large Awning



ALDER OR DOUGLAS FIR INTERIOR



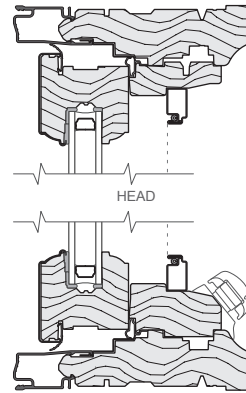
SILL



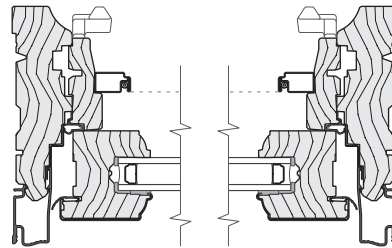
JAMBS



PINE OR MAHOGANY INTERIOR

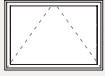


SILL



JAMBS



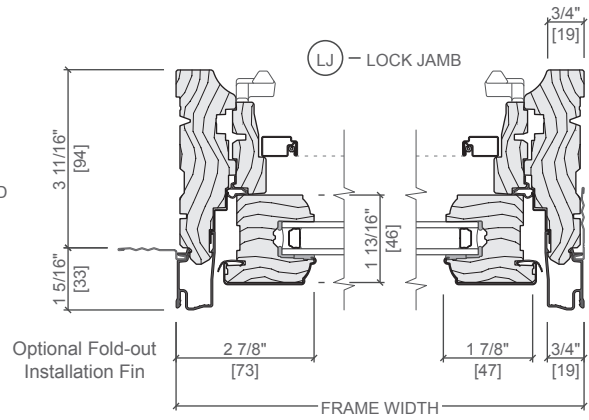
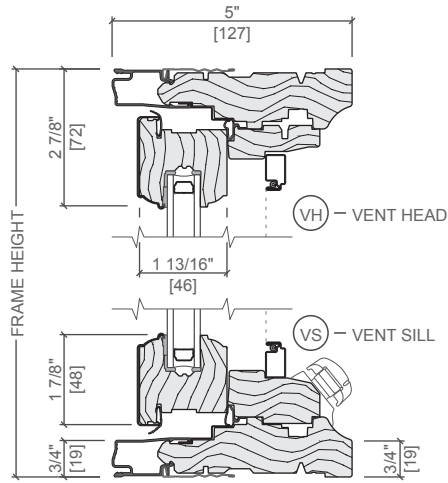
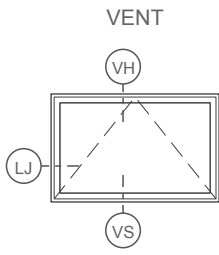


AWNING

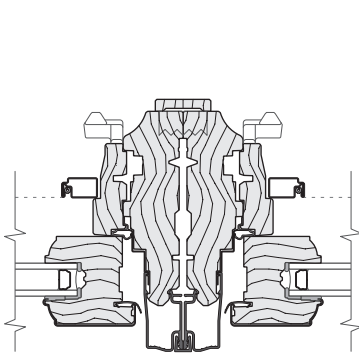
UNIT SECTIONS

Aluminum-Clad Wood

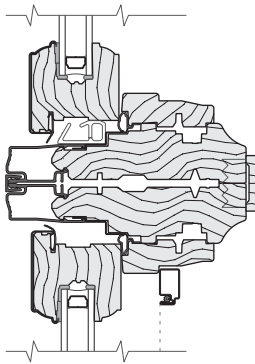
Large Awning



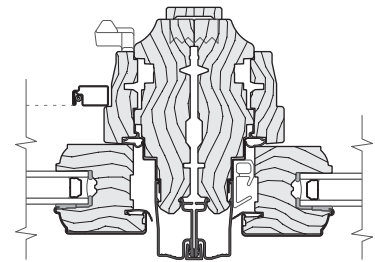
TYPICAL JOINING MULLIONS



VERTICAL JOINING MULLION
VENT / VENT



HORIZONTAL JOINING MULLION
FIXED / VENT

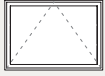


VERTICAL JOINING MULLION
VENT / FIXED

Scale 3" = 1' 0"

All dimensions are approximate.

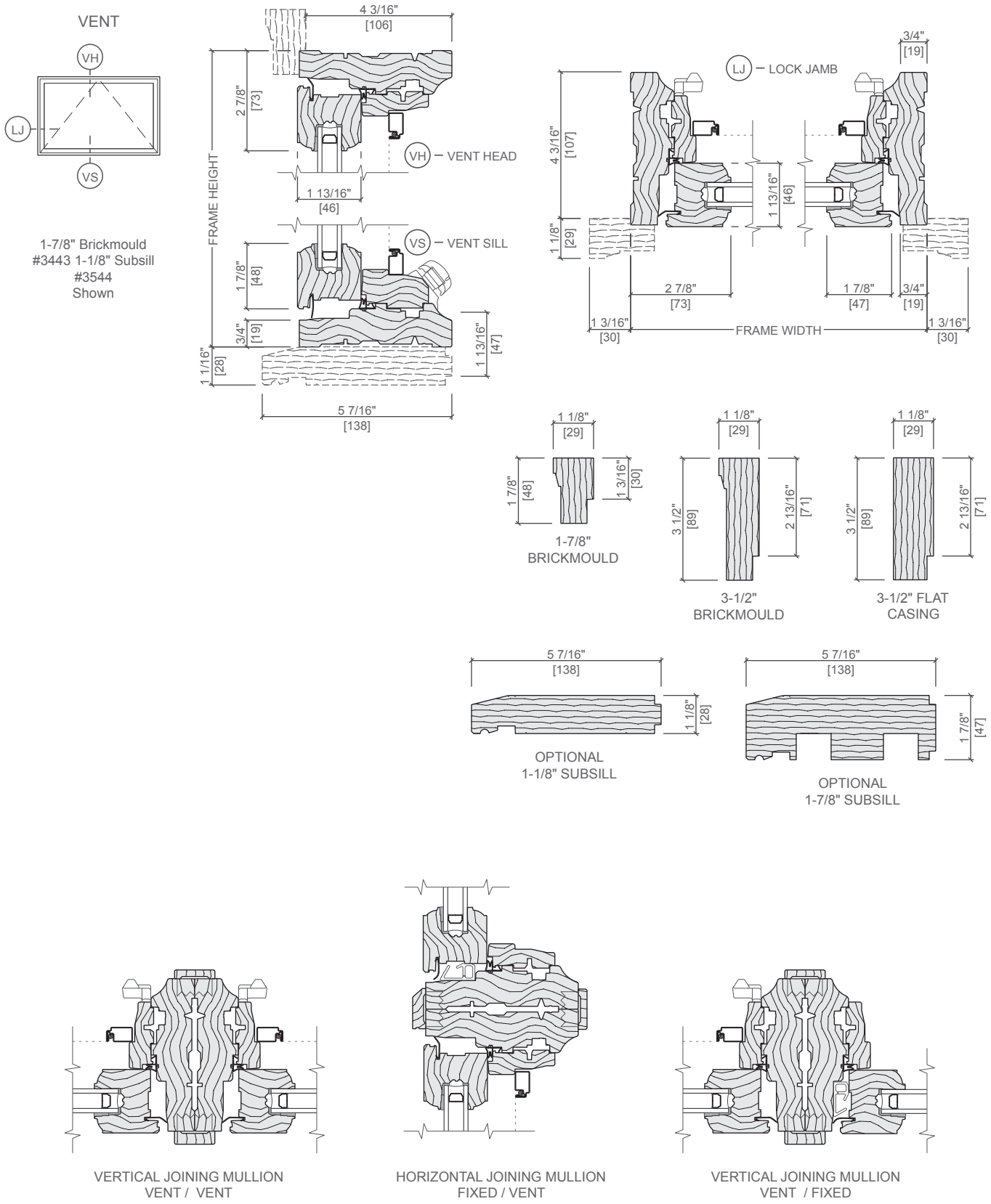
See www.PellaADM.com for mullion limitations and reinforcing requirements.



AWNING

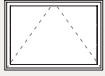
UNIT SECTIONS

Wood Exterior
Large Awning



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

See www.PellaADM.com for mullion limitations and reinforcing requirements.



AWNING

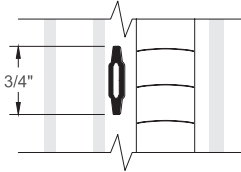
GRILLE TYPES

Typical Grille Profiles and Patterns

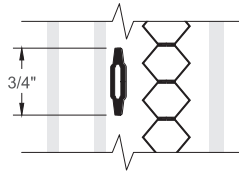


Grille Profiles

Removable Grilles Between-the-Glass



3/4" Triple-Pane with Slimshade Blind

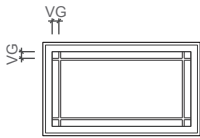


3/4" Triple-Pane with Cellular Fabric Shade

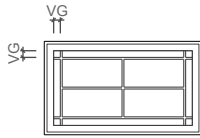
Grille Patterns

Removable Grilles-Between-the-Glass

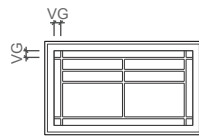
PRAIRIE LITE PATTERNS



9-Lite



12-Lite



14-Lite

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

9-Lite

- Available in all standard and special sizes.

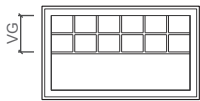
12-Lite

- Available in units $\geq 1'9"$ and $\leq 2'11"$ in width, and $\geq 1'9"$ in height.

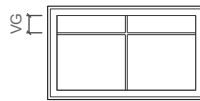
14-Lite

- Available in units $\geq 1'9"$ in width and $\geq 2'11"$ in height.

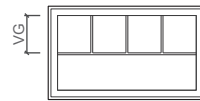
OTHER AVAILABLE PATTERNS



New England



Cross



Top Row

New England

- Standard visible glass to separator bar dimension = half of total visible glass height.

Top Row

- Standard visible glass to separator bar dimension = 14" or half of total visible glass height if frame height is $< 2'11"$, whichever is smaller.

Cross

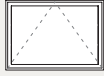
- Standard visible glass to separator bar dimension = one-quarter of total visible glass height.

For traditional patterns, see size tables.

VG = Visible Glass

Lite dimensions noted can vary.

Custom configurations are also available, for details contact your local Pella sales representative.



AWNING

SIZE TABLES

Aluminum-Clad Wood



Vent Units

Opening	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)
1' 5 3/4"					
1' 9 3/4"					
1' 11 3/4"					
2' 1 3/4"					
2' 5 3/4"					
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"
1' 5"	1717				
1' 9"		2121			
1' 11"			2323		
2' 1"				2525	
2' 5"					2929

Vent and Fixed Units

Opening	(832) (813)	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
2' 8 3/4"						
2' 11 3/4"						
3' 5 3/4"						
3' 11 3/4"						
4' 5 3/4"						
4' 11 3/4"						
Frame	2' 8"	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
2' 8"	3217	3517	4117	4717	5317	5917
2' 11"	3221	3521	4121	4721	5321	5921
3' 5"	3223	3523	4123	4723	5323	5923
3' 11"	3225	3525	4125	4725	5325	5925
4' 5"	3229	3529	4129	4729	5329	5929

Fixed Units

Opening	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
2' 11 3/4"					
3' 5 3/4"					
3' 11 3/4"					
4' 5 3/4"					
4' 11 3/4"					
5' 5 3/4"					
5' 11 3/4"					
6' 1 3/4"					
Frame	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
2' 11"	3235	3535	4135	4735	5335
3' 5"	3241	3541	4141	4741	5341
3' 11"	3247	3547	4147	4747	5347
4' 5"	3253	3553	4153	4753	5353
4' 11"	3259	3559	4159	4759	5359
5' 5"	3265	3565	4165	4765	5365
5' 11"	3271	3571	4171	4771	5371
6' 1"	3273	3573	4173	4773	5373

Special Size Frame Dimensions*

	MINIMUM	MAXIMUM
VENT	1'5" W x 1'5" H (432 x 432)	4'5" W x 2'5" H (1 346 x 737)
FIXED	1'5" W x 1'5" H (432 x 432)	4'11" W x 6'1" H (1 499 x 1 854)

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

Opening Dimensions

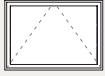
CLAD EXTERIOR UNITS: Dimensions shown in tables are rough opening dimensions.

Not to scale.

Ⓔ Fixed Units only

Traditional grille patterns shown. Refer to Clad/Wood Overview Section for additional patterns and profiles.

Contact your local Pella representative for the availability of custom sizes smaller or larger than the parameters shown or other custom fixed shapes.



AWNING

SIZE TABLES
Aluminum-Clad Wood
Large Awning



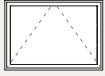
	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
(908) (889)					
(1 060) (1 041)					
(1 213) (1 194)					
(1 365) (1 346)					
(1 518) (1 499)					

Special Size Frame Dimensions*

	MINIMUM	MAXIMUM
VENT	2'5-1/4" W x 2'5-1/4" H (889 x 1 930)	4'11" W x 4'11" H (1 499 x 1 499)

* Available within size range shown.
Keep frame dimensions to the nearest 1/4" increment.

Not to scale.
Traditional grille patterns shown. Refer to Clad/Wood
Overview Section for additional patterns and profiles.



AWNING

DESIGN DATA

Aluminum-Clad Wood



VENT AND FIXED UNITS

Unit	Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
			Annealed	Tempered	Vent	Fixed
1717v	1.0	0.9	2.5	3	R70	–
2121v	1.8	1.6	2.5	3	R70	–
2323v	2.2	2.1	2.5	3	R70	–
2525v	2.8	2.6	2.5	3	R70	–
2929v	4.0	3.8	2.5	3	R65/R70	–
3217	2.1	2.1	2.5	3	R70	R50
3221	2.9	2.8	2.5	3	R60/R70	R50
3223	3.3	3.1	2.5	3	R60/R70	R50
3225	3.7	3.5	2.5	3	R60/R70	R50
3229	4.5	4.2	2.5	3	R50/R70	R50
3517	2.4	2.3	2.5	3	R70	R50
3521	3.2	3.1	2.5	3	R60/R70	R50
3523	3.7	3.5	2.5	3	R60/R70	R50
3525	4.1	3.9	2.5	3	R60/R70	R50
3529	4.9	4.7	2.5	3	R50/R70	R50
4117	2.8	2.8	2.5	3	R65/R70	R50
4121	3.8	3.7	2.5	3	R45/R70	R45/R50
4123	4.4	4.2	2.5	3	R45/R70	R45/R50
4125	4.9	4.7	2.5	3	R45/R70	R45/R50
4129	5.9	5.7	2.5	3	R45/R70	R45/R50
4717	3.3	3.2	2.5	3	R60/R70	R50
4721	4.5	4.4	2.5	3	R40/R70	R40/R50
4723	5.1	4.9	2.5	3	R35/R70	R35/R50
4725	5.7	5.5	2.5	3	R35/R70	R35/R50
4729	6.9	6.7	2.5	3	R35/R70	R35/R50
5317	3.7	3.7	2.5	3	R60/R70	R50
5321	5.1	5.0	2.5	3	R35/R70	R35/R50
5323	5.8	5.7	2.5	3	R30/R70	R30/R50
5325	6.5	6.3	2.5	3	R30/R70	R30/R50
5329	7.8	7.6	2.5	3	R30/R70	R30/R50
5917F	–	4.2	2.5	3	–	R50
5921F	–	5.6	2.5	3	–	R30/R50
5923F	–	6.4	2.5	3	–	R25/R50
5925F	–	7.1	2.5	3	–	R25/R50
5929F	–	8.6	2.5	3	–	R25/R50

FIXED UNITS

Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁
		Annealed	Tempered	
3235	5.3	2.5	3	R45/R50
3241	6.4	2.5	3	R35/R50
3247	7.5	2.5	3	R30/R50
3253	8.6	2.5	3	R25/R50
3259	9.7	2.5	3	R25/R50
3265	10.8	3.0	3	R30/R50
3271	11.9	3.0	3	R25/R50
3273	12.3	3.0	3	R25/R50
3535	5.9	2.5	3	R45/R50
3541	7.2	2.5	3	R35/R50
3547	8.4	2.5	3	R30/R50
3553	9.6	2.5	3	R25/R50
3559	10.8	3.0	3	R25/R50
3565	12.0	3.0	3	R30/R50
3571	13.3	3.0	3	R25/R50
3573	13.7	3.0	3	R25/R50
4135	7.2	2.5	3	CW35/CW50
4141	8.6	2.5	3	CW30/CW50
4147	10.1	2.5	3	R25/CW50
4153	11.6	3.0	3	CW35/CW50
4159	13.0	3.0	3	CW30/CW50
4165	14.5	3.0	3	CW30/CW50
4171	16.0	3.0	3	R25/CW50
4173	16.5	3.0	3	R25/CW50
4735	8.4	2.5	3	CW30/CW50
4741	10.1	2.5	3	R25/CW50
4747	11.8	3.0	3	CW35/CW50
4753	13.5	3.0	3	CW30/CW50
4759	15.3	3.0	3	R25/CW50
4765	17.0	3.0	3	R25/CW50
4771	18.7	4.0	4	CW30/CW50
4773	19.3	4.0	4	CW30/CW50
5335	9.6	2.5	3	R25/CW50
5341	11.6	3.0	3	CW35/CW50
5347	13.5	3.0	3	CW30/CW50
5353	15.5	3.0	4	R25/CW50
5359	17.5	3.0	4	R25/CW50
5365	19.4	4.0	4	CW30/CW50
5371	21.4	4.0	4	CW30/CW50
5373	22.1	4.0	4	CW30/CW50
5935	10.8	3.0	3	R25/CW50
5941	13.0	3.0	3	CW30/CW50
5947	15.3	3.0	3	R25/CW50
5953	17.5	3.0	4	R25/CW50
5959	19.7	4.0	4	CW30/CW50
5965	21.9	4.0	4	CW30/CW50
5971	24.1	4.0	4	R25/CW50
5973	24.9	4.0	4	R25/CW50

Miscellaneous Formulas

VISIBLE GLASS

Width = Frame - 6-1/2"
Height = Frame - 6-1/2"

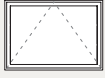
ACTUAL GLASS*

Width = Frame - 5-1/2"
Height = Frame - 5-1/2"

* Actual glass of exterior light. Hinged glass panel is 9/16" smaller.
To convert areas to square meters (m²), multiply square feet by 0.0929.

V = Vent Only
F = Fixed Units only
(-) = Not Applicable

(1) Maximum performance when glazed with the appropriate glass thickness. Second value requires tempered glass.
To convert areas to square meters (m²), multiply square feet by 0.0929.



AWNING

DESIGN DATA

Aluminum-Clad Wood
Large Awning



VENT AND FIXED UNITS

Unit	Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁
			Annealed	Tempered	
3535	1.2	5.6	2.5	3	CW45/CW50
3541	1.2	6.8	2.5	3	CW35/CW50
3547	1.2	8.0	2.5	3	CW30/CW50
3553	1.2	9.2	2.5	3	R25/CW50
3559	1.2	10.4	2.5	3	R25/CW50
4135	1.4	6.8	2.5	3	CW35/CW50
4141	1.4	8.3	2.5	3	CW30/CW50
4147	1.4	9.7	2.5	3	R25/CW50
4153	1.4	11.1	3	3	CW35/CW50
4159	1.4	12.6	3	3	CW30/CW50
4735	1.7	8.0	2.5	3	CW30/CW50
4741	1.7	9.7	2.5	3	R25/CW50
4747	1.7	11.4	3	3	CW35/CW50
4753	1.7	13.1	3	3	CW30/CW50
4759	1.7	14.8	3	3	R25/CW50
5335	1.9	9.2	3	3	R25/CW50
5341	1.9	11.1	3	3	CW35/CW50
5347	1.9	13.1	3	3	CW30/CW50
5353	1.9	15.0	3	4	R25/CW50
5359	1.9	17.0	3	4	R25/CW50
5935	2.1	10.4	2.5	3	R25/CW50
5941	2.1	12.6	3	3	CW30/CW50
5947	2.1	14.8	3	3	R25/CW50
5953	2.1	17.0	3	4	R25/CW50
5959	2.1	19.1	4	4	CW30/CW50

Miscellaneous Formulas

VISIBLE GLASS

Width = Frame - 6-1/2"
Height = Frame - 6-1/2"

ACTUAL GLASS*

Width = Frame - 5-1/2"
Height = Frame - 5-1/2"

* Actual glass of exterior light. Hinged glass panel is 9/16" smaller.
To convert areas to square meters (m²), multiply square feet by 0.0929.

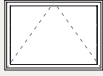
Shade Handing Guide

UNIT TYPE	LOCATION FROM EXTERIOR		INTERIOR HINGED GLASS PANEL STYLE
	Window Crank	Shade Operator	
Right-Hand Vent	Right	Left	Bottom Hinge
Left-Hand Vent	Left	Right	Bottom Hinge
Large Awning Vent	Bottom	Left	Bottom Hinge
Fixed with Frame Height > 29"	–	Left	Side Hinge
Fixed with Frame Height ≤ 29"	–	Left	Bottom Hinge
Large Fixed	–	Left	Side Hinge

(–) = Not Applicable

(1) Maximum performance when glazed with the appropriate glass thickness. Second value, where shown, requires tempered glass.

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



AWNING

DETAILED PRODUCT DESCRIPTIONS

Aluminum-Clad Wood Awning and Large Awning



FRAME

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 6-9/16" (167mm) wall depths.
- Optional factory-installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

SASH

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 2-3/16" (55mm).

WEATHERSTRIPPING

- Dual weatherstripping.
 - Continuous, flexible santoprene material in dual durometer design with welded corners, compressed between frame and sash for positive seal on all four sides.
 - Secondary thermoplastic vulcanizate (TPV) leaf-type weatherstrip between edge of sash and frame.

GLAZING SYSTEM 1

- Quality float glass complying with ASTM C 1036.
 - Triple-Pane Glazing
 - Exterior dual-seal insulating glass, silicone-glazed, [[annealed / heat strengthened] [tempered]] [[clear] [Advanced Low-E with argon] [SunDefense™ Low-E with Argon] [AdvancedComfort Low-E with argon] [NaturalSun Low-E with argon]] [[bronze] [gray] [green] [non-impact laminated] Advanced Low-E with argon]].
 - High altitude glazing available.
 - Interior hinged glass panel set in veneer covered aluminum frame, fitted to sash with continuous gasket seal, [[annealed] [tempered]] [[clear] [obscure]].
 - Airspace is 1-3/32".

EXTERIOR

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

INTERIOR

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

HARDWARE

- Roto operator assembly
 - Steel worm gear sash operator with hardened gears.
 - Operator base to be zinc die cast with painted finish.
 - Operator linkage, hinge slide, and hinge arms are stainless steel.
 - Exposed fasteners are stainless steel.
 - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
- Finish of integrated folding crank is [baked enamel, champagne] [baked enamel, white] [baked enamel, brown] [bright brass] [satin nickel] [oil-rubbed bronze].
- All vent units are available with operator located on the [Awning: left or right side as viewed from the exterior] [Large Awning: bottom center of the unit].
- SureLock® System—A single handle locking system operates positive-acting arms that reach out and pull the sash into a locked position: [Awning: one lock installed on units with frame width 29" and smaller, two unison operating locks installed on units with frame width greater than 29"] [Large Awning: one lock installed on units with frame heights less than 41", two unison operating locks installed on units with frame heights 41" and greater].
- Lock handle finish is [baked enamel, Champagne] [baked enamel, White] [baked enamel, Brown] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

OPTIONAL PRODUCTS

Grilles

- Removable Between-Glass Grilles
 - 3/4" profile with [Traditional] [Prairie] [Cross] [Top Row] [New England] patterns that are a contoured aluminum grille installed on the edge of the hinged glass panel.
 - Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain 1]]

Screens

- InView™ Screens
 - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, [Champagne] [White] [Brown].
 - or -
- Vivid View® Screens
 - PVDF 21/17 mesh, minimum 78 percent light transmissivity screen, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, [Champagne] [White] [Brown].

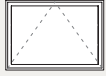
Window Fashions

- Slimshade® Blinds₁
 - 15mm aluminum slat [tilt-only] [bottom-up] blinds with polyester cord ladder, installed in sash between double glazing and interior hinged glass panel and controlled by built-in operating mechanism.
 - or -
- Cellular Fabric Shades₁
 - Spun bond Polyethylene Terephthalate (PET) cellular fabric, 11/16" in width, hidden polyester cord [bottom-up] [top-down].
 - Installed on the hinged glass panel and controlled by built-in operating mechanism.
 - Operated with cordless operator

Hardware

- Optional factory applied 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.

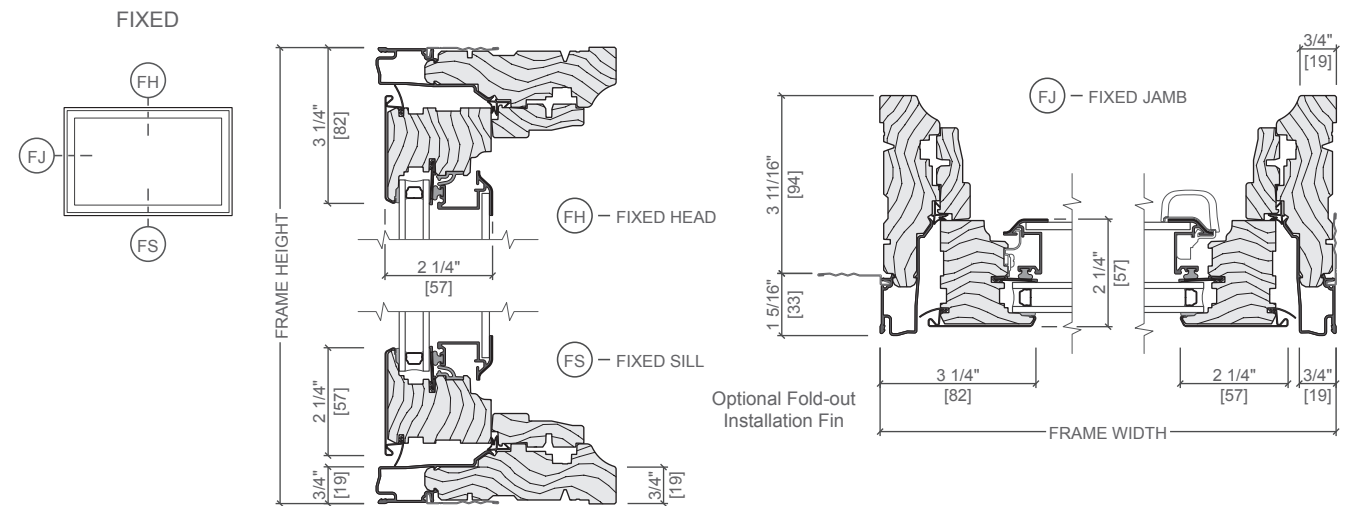
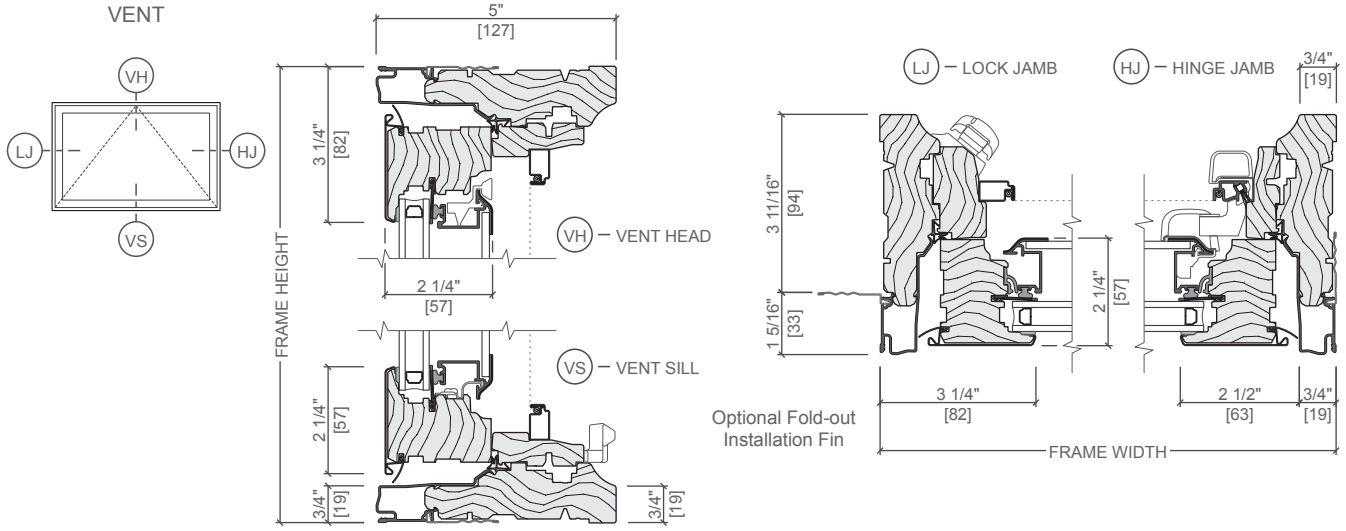
(1) Contact your local Pella sales representative for current designs and color options.



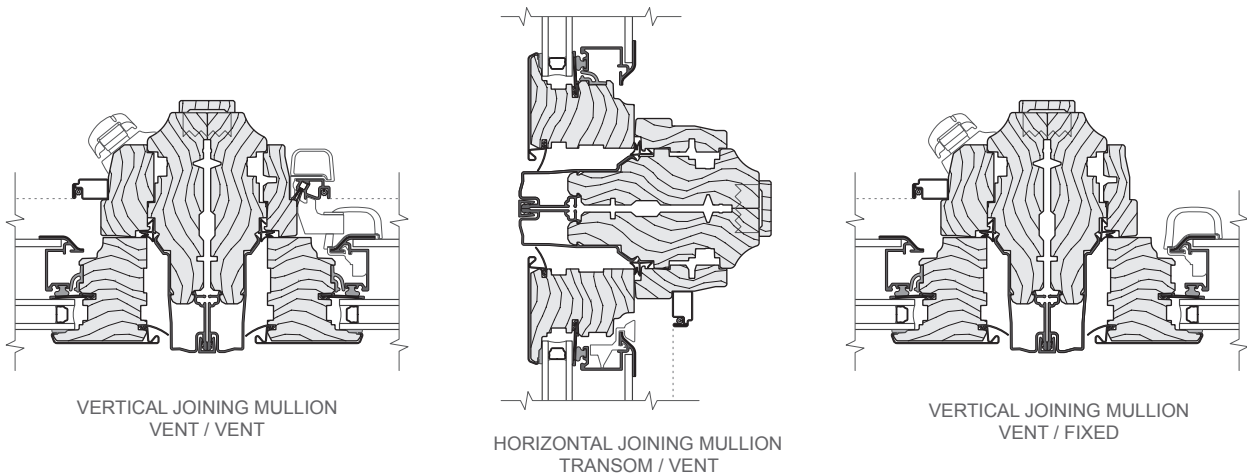
AWNING

UNIT SECTIONS

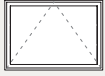
Aluminum-Clad Wood
Triple-Pane Glazing



TYPICAL JOINING MULLIONS



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

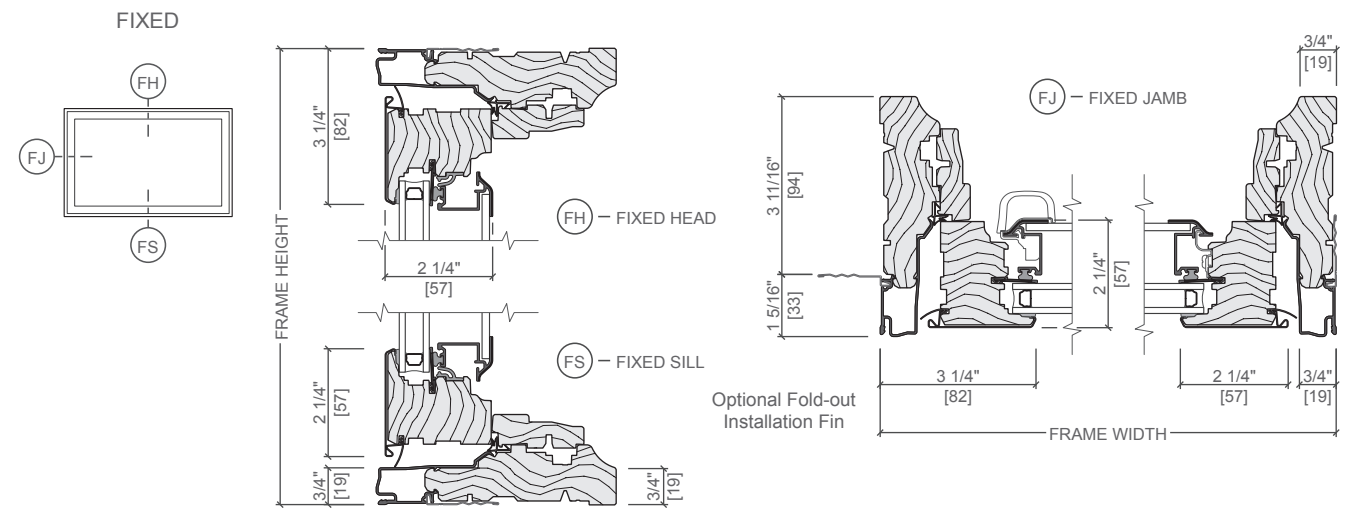
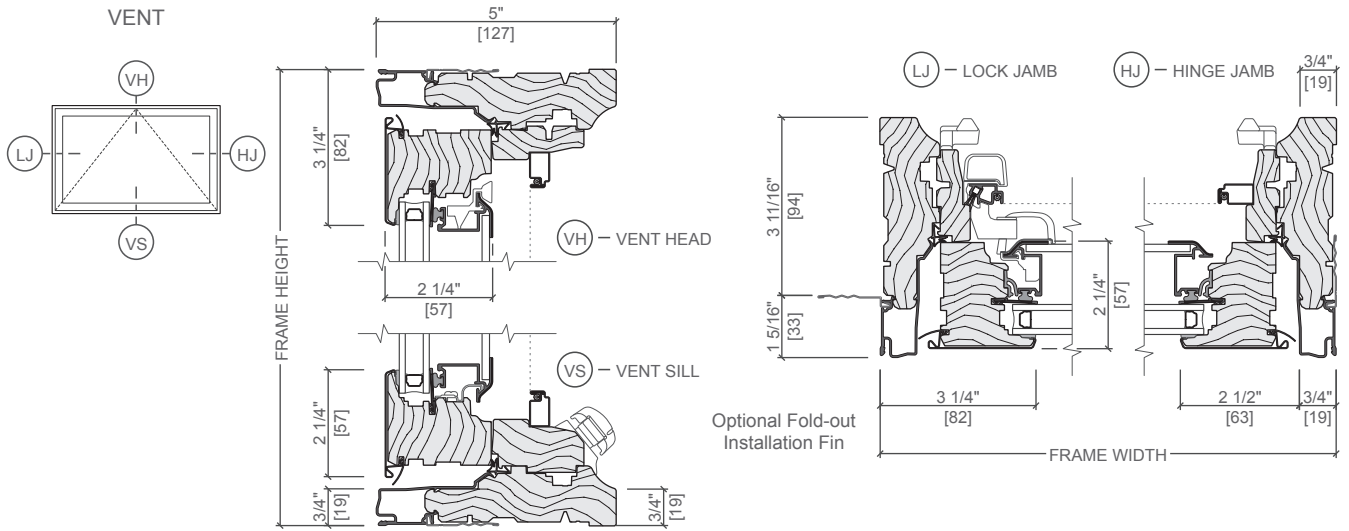


AWNING

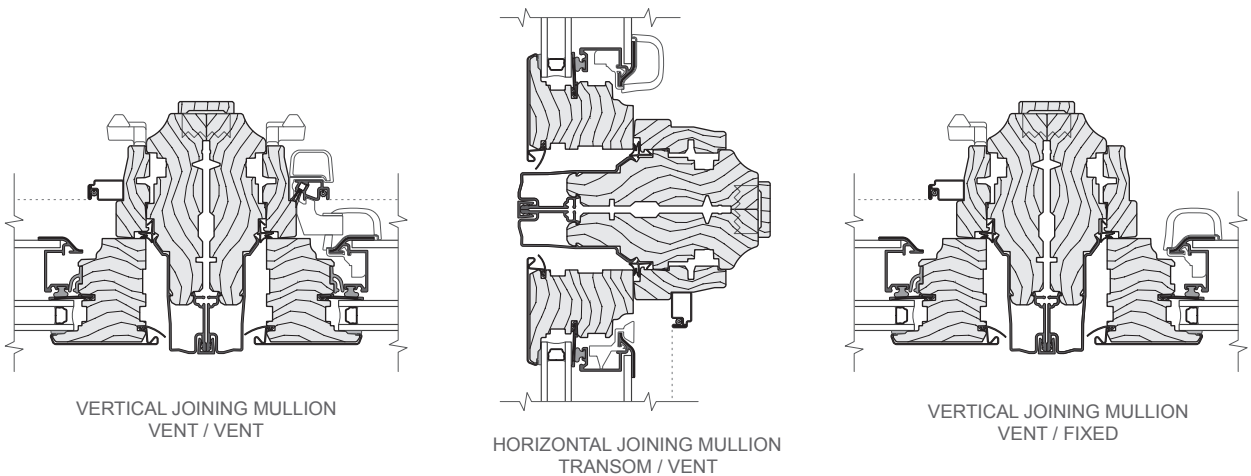
UNIT SECTIONS

Aluminum-Clad Wood

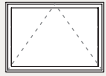
Large Awning Triple-Pane Glazing



TYPICAL JOINING MULLIONS



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



AWNING

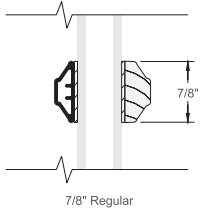
GRILLE TYPES

Removable, Grilles-Between-the-Glass and Simulated Divided Light

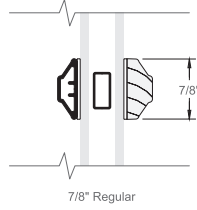


Grille Profiles

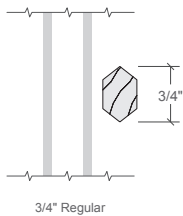
Simulated-Divided-Light Grilles



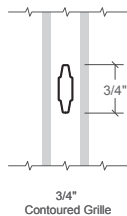
Simulated-Divided-Light Grilles with optional spacer



Removable Interior Pine Grilles

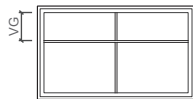
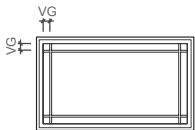


Grilles-Between-the-Glass



Grille Patterns

Grilles-Between-the-Glass and Simulated Divided Light Grilles



Prairie

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

Top Row

- Standard visible glass to separator bar = 1/2 of visible glass for frame heights greater than or equal to 21".

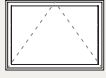
For traditional patterns, see size tables.

VG = Visible Glass

(1) Grilles are available in traditional patterns only.

Lite dimensions noted can vary.

Custom configurations are also available, for details contact your local Pella sales representative.



AWNING

SIZE TABLES

Aluminum-Clad Wood



Vent Units

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"
2' 5 3/4"	1717	2121	2323	2525	2929
2' 1 3/4"					
2' 1 1/4"					
2' 1"					
1' 9"					
1' 5"					

Vent and Fixed Units

	(832) (813)	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening	2' 8 3/4"	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	2' 8"	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
2' 5 3/4"	3217	3517	4117	4717	5317	5917
2' 1 3/4"	3221	3521	4121	4721	5321	5921
2' 1 1/4"	3223	3523	4123	4723	5323	5923
2' 1"	3225	3525	4125	4725	5325	5925
1' 9"	3229	3529	4129	4729	5329	5929

Fixed Units

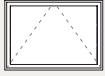
3' 5"	3241	3541	4141	4741	5341	5941
3' 11"	3247	3547	4147	4747	5347	5947
4' 5"	3253	3553	4153	4753	5353	5953
4' 11"	3259	3559	4159	4759	5359	5959
5' 5"	3265	3565	4165	4765	5365	5965
5' 11"	3271	3571	4171	4771	5371	5971

Special Size Frame Dimensions*

	MINIMUM	MAXIMUM
VENT	1'5" W x 1'5" H (432 x 432)	4'5" W x 2'5" H (1 346 x 737)
FIXED	1'5" W x 1'5" H (432 x 432)	4'11" W x 5'11" H (1 499 x 1 803)

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

Not to scale.
ⓔ Fixed Units only
Traditional grille patterns shown. Refer to Clad/Wood Overview Section for additional patterns and profiles.



AWNING

DESIGN DATA

Aluminum-Clad Wood



VENT AND FIXED UNITS

Unit	Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)				Performance Class & Grade ₁	
			Vent		Fixed		Vent	Fixed
			Annealed	Tempered	Annealed	Tempered		
1717	1.1	1.0	2.5	3	3	3	R50	R50
2121	2.0	1.8	2.5	3	3	3	R50	R50
2323	2.4	2.3	2.5	3	3	3	R50	R50
2525	3.0	2.8	2.5	3	3	3	R50	R50
2929	4.3	4.0	2.5	3	3	3	R50	R50
3217	2.2	2.3	2.5	3	3	3	R50	R50
3221	3.0	3.0	2.5	3	2.5	3	R50	R50
3223	3.4	3.4	2.5	3	2.5	3	R50	R50
3225	3.8	3.8	2.5	3	2.5	3	R50	R50
3229	4.6	4.5	2.5	3	2.5	3	R50	R50
3517	2.8	2.5	2.5	3	3	3	R50	R50
3521	3.7	3.4	2.5	3	2.5	3	R50	R50
3523	4.1	3.8	2.5	3	2.5	3	R50	R50
3525	4.5	4.2	2.5	3	2.5	3	R50	R50
3529	5.4	5.0	2.5	3	2.5	3	R50	R50
4117	3.4	3.0	2.5	3	3	3	R50	R50
4121	4.4	4.0	2.5	3	2.5	3	R50	R50
4123	4.9	4.5	2.5	3	2.5	3	R50	R50
4125	5.4	5.0	2.5	3	2.5	3	R50	R50
4129	6.4	6.0	2.5	3	2.5	3	R50	R50
4717	3.9	3.5	2.5	3	3	3	R50	R50
4721	5.1	4.7	2.5	3	2.5	3	R50	R50
4723	5.7	5.3	2.5	3	2.5	3	R50	R50
4725	6.3	5.9	2.5	3	2.5	3	R50	R50
4729	7.5	7.0	2.5	3	2.5	3	R50	R50
5317	4.4	4.0	2.5	3	3	3	R50	R50
5321	5.8	5.4	2.5	3	2.5	3	R50	R50
5323	6.5	6.0	2.5	3	2.5	3	R50	R50
5325	7.2	6.7	2.5	3	2.5	3	R50	R50
5329	8.5	8.0	2.5	3	2.5	3	R50	R50
5917F	–	4.5	–	–	3	3	–	R50
5921F	–	6.0	–	–	2.5	3	–	R50
5923F	–	6.8	–	–	2.5	3	–	R50
5925F	–	7.5	–	–	2.5	3	–	R50
5929F	–	9.0	–	–	2.5	3	–	R50

FIXED UNITS

Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁
		Annealed	Tempered	
		3241	6.8	3
3247	7.9	3	3	R50
3253	9.0	3	3	R50
3259	10.2	3	3	R50
3265	11.3	3	3	R50
3271	12.4	3	3	R50
3541	7.5	3	3	R50
3547	8.8	3	3	R50
3553	10.0	3	3	R50
3559	11.3	3	3	R50
3565	12.6	3	3	R50
3571	13.8	3	3	R45/R50
4141	9.0	3	3	R50
4147	10.5	3	3	R50
4153	12.0	3	3	R50
4159	13.6	3	3	R50
4165	15.1	3	3	R50
4171	16.6	3	3	R45/R50 _{TR}
4741	10.5	3	3	R50
4747	12.3	3	3	R50
4753	14.1	3	3	R50
4759	15.8	3	3	R45/R50 _{TR}
4765	17.6	4	4	R50
4771	19.3	4	4	R50
5341	12.0	3	3	R50
5347	14.1	3	3	R50
5353	16.1	3	4	R45/R50 _{TR}
5359	18.1	4	4	R50
5365	20.1	4	4	R50
5371	22.1	4	4	R50
5941	13.6	3	3	R50
5947	15.8	3	3	R45/R50 _{TR}
5953	18.1	4	4	R50
5959	20.3	4	4	R50
5965	22.6	4	4	R50
5971	24.8	4	4	R45/R50 _{TR}

Miscellaneous Formulas

VISIBLE
GLASS

Width = Frame - 4-15/16"
Height = Frame - 4-15/16"

ACTUAL
GLASS

Width = Frame - 4"
Height = Frame - 4"

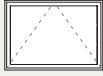
F = Fixed only

TR= Second number shown requires tempered glass.

(-) = Not Applicable

(1) Maximum performance when glazed with the appropriate glass thickness. Second value, where shown, requires tempered glass.

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



AWNING

DETAILED PRODUCT DESCRIPTIONS

Aluminum-Clad Wood



FRAME

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory-applied jamb extensions available.
- Optional factory-installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

SASH

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-3/4" (45mm).

WEATHERSTRIPPING

- Dual weatherstripping.
 - Continuous, flexible santoprene material in dual durometer design with welded corners, compressed between frame and sash for positive seal on all four sides.
 - Secondary thermoplastic vulcanizate (TPV) leaf-type weatherstrip between edge of sash and frame on the vertical sides and bottom side, and Santoprene® bulb-type weatherstrip between the edge of sash and frame on the top side.

GLAZING SYSTEM 1

- Quality float glass complying with ASTM C 1036.
- Silicone-glazed 11/16" [obscure] dual-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E with argon] [SunDefense™ Low-E with argon] [AdvancedComfort Low-E with argon] [NaturalSun Low-E with argon]].
- High altitude glazing available.

EXTERIOR

- Exterior aluminum surfaces are finished with EnduraClad® multi-stage finish system.
- Color is [Standard: [White] [Tan] [Brown] [Putty]] [Feature: [Poplar White] [Hartford Green] [Black] [Brick Red] [Morning Sky Gray (Spring 2015)] [Portobello (Spring 2015)]]].

INTERIOR

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen White] [Bright White] [stain₃]].

HARDWARE

- Roto operator assembly
 - Steel worm gear sash operator with hardened gears.
 - Operator base to be zinc die cast with painted finish.
 - Operator linkage, hinge slide, and hinge arms are stainless steel.
 - Exposed fasteners are stainless steel.
 - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
- Finish of operator crank is [champagne, for unfinished units prime] [white, for prefinished white units]. Operator crank also available in optional [bright brass] [satin nickel] [baked enamel, brown] [oil-rubbed bronze]. All vent units are available with operator located on the left or right side as viewed from the exterior.
- SureLock® System—A single handle locking system operates positive-acting arms that reach out and pull the sash into a locked position: one lock installed on units with frame width 29" and smaller, two unison operating locks installed on units with frame width over 29".
- Lock handle finish is [champagne, for unfinished units prime] [white, for prefinished white units] [baked enamel, brown]. Lock handle also available in optional [bright brass] [satin nickel] [oil-rubbed bronze].

OPTIONAL PRODUCTS

Grilles

- Simulated Divided Light [with spacer]
 - Grilles permanently bonded to the interior and exterior of glass.
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
 - Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain₂]]. Exterior grilles to match the exterior cladding color.
 - Available only on units glazed with Low-E insulated glass with argon.
- or -
- Grilles-Between-the-Glass₁
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Patterns are [Traditional] [9-Lite Prairie] [Top Row] [Custom - Equally Divided].
 - Interior color is [White] [Tan₂] [Brown₂] [Putty₂] [Ivory] [Brickstone] [Harvest] [Cordovan].
 - Exterior grilles match the exterior cladding color₄.
- Removable Grilles
 - 3/4" Traditional removable solid wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
 - Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain₃]].
 - Exterior [unfinished, ready for site finishing] [factory primed] [factory prefinished, finish color matched to exterior cladding₃].-
- or -

Flat Insect Screen

- InView™ Screens
 - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, [Champagne] [White] [Brown].
- or -
- Vivid View®
 - PVDF 21/17 mesh, minimum 78 percent light transmissive screen, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, [champagne] [white] [brown].

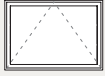
Hardware

- Optional factory applied 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) Available on units glazed with Low-E insulated glass with argon, clear insulated glass and obscure insulated glass. White exterior grille color and traditional pattern is the only option available for clear insulating glass.

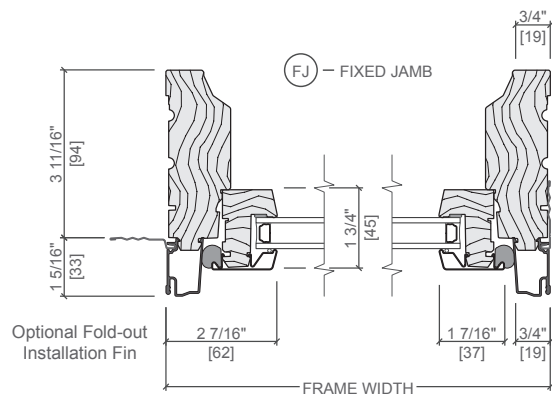
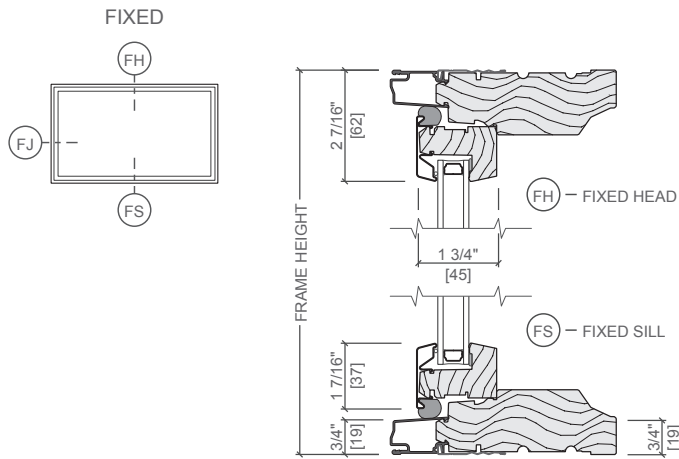
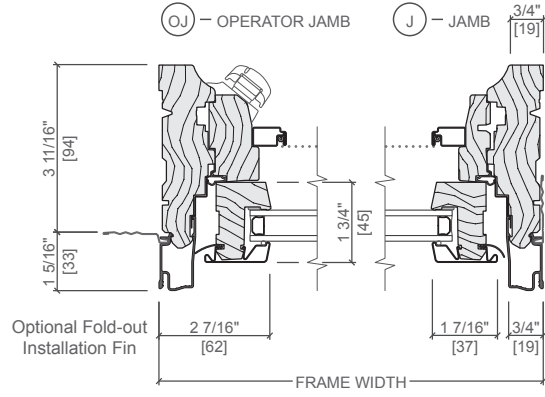
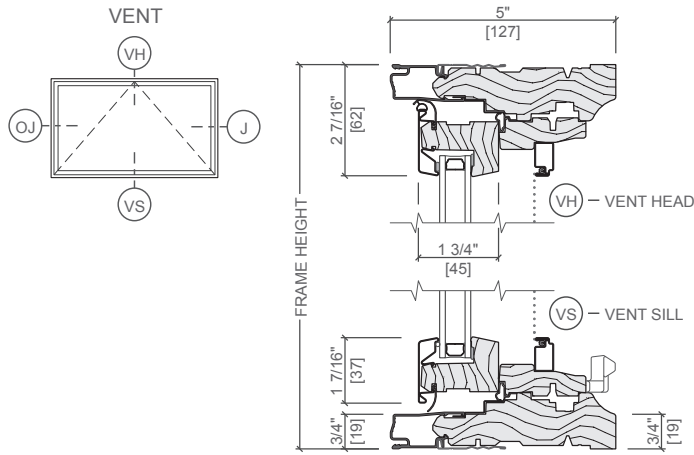
(2) Tan, brown and putty GBG colors are available in single-tone only (brown/brown, tan/tan or putty/putty) (Putty mono available spring 2015).

(3) Contact your local Pella sales representative for current color options.

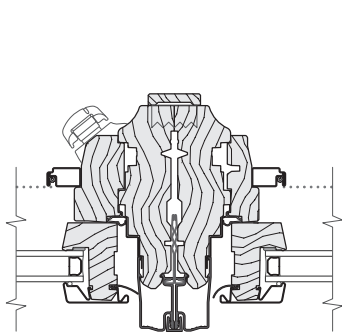


AWNING

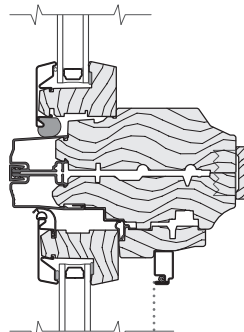
UNIT SECTIONS
Aluminum-Clad Wood



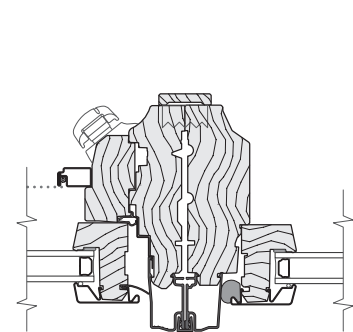
TYPICAL JOINING MULLIONS



VERTICAL JOINING MULLION
VENT / VENT



HORIZONTAL JOINING MULLION
FIXED / VENT



VERTICAL JOINING MULLION
VENT / FIXED

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