

Learn About Performance



RED RECTANGLES DENOTE
ARCHITECT'S SELECTIONS

MADE WITH CARE

We take pride in the little details and strive for perfection. Pella wood craftsmen who average over 14 years' experience tailor-make these windows and doors for you and your home.





ARCHITECT SERIES - TRADITIONAL SINGLE-HUNG WINDOW SPECS & INSTALL DETAILS

- Optional integrated wireless security sensors maintain aesthetics, streamline security installation and ensure no warranty loss is caused by post-installation drilling
- Performance class and grade CW30-CW50 and STC of 26-34
- Available in sizes from 14" x 24" to 54" x 96" in 1/8" increments
- Installation options include Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
- EnduraClad® aluminum-clad exteriors provide exceptional protection for lasting performance

REQUEST A PROJECT QUOTE

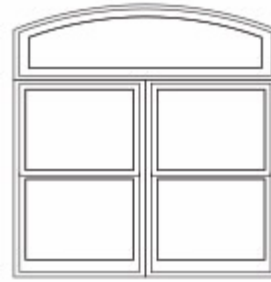


COMBINATIONS

Create window combinations to add architectural interest to your home. Other combinations are also available. See your Pella sales representative for the complete offering.



2 wide



Transom over 2 wide

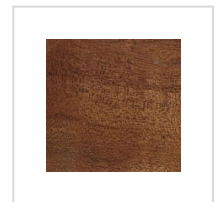
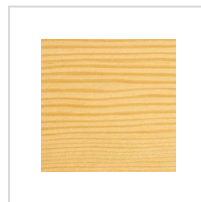
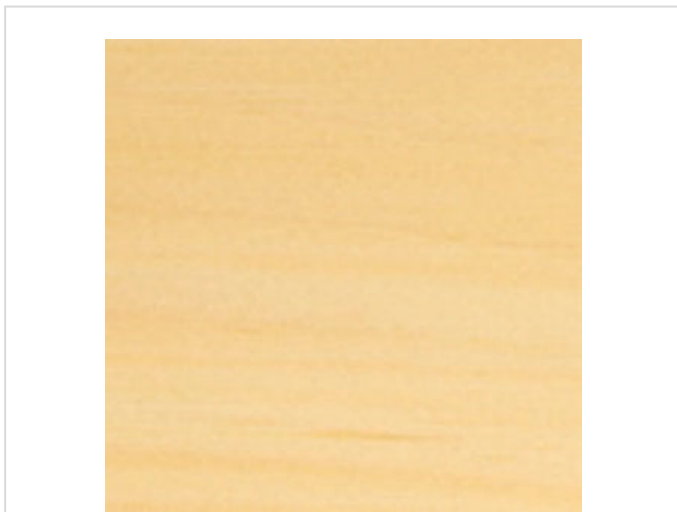


MATERIALS

Architect Series products offers three exquisite wood types to enhance your home's design. [Learn more about materials.](#)

And, we stand behind them with a limited lifetime warranty. See written Limited Warranty for details, including exceptions and limitations.

Materials



For Pros

Materials

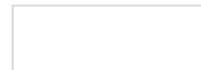
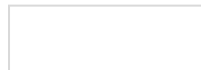
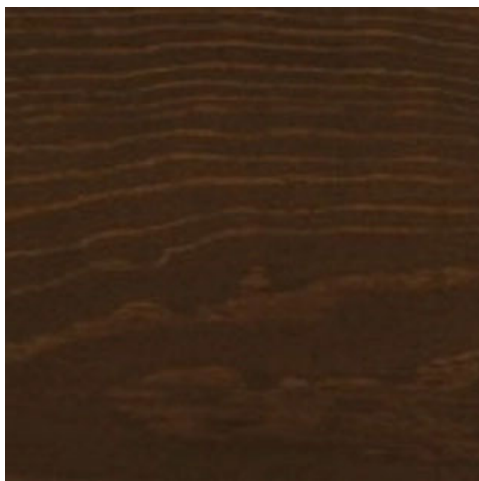
Pella's EnduraGuard® wood protection formula has three active ingredients. This powerful combination, together with our immersion-treatment method, helps ensure strong protection on every exterior wood surface of our products. The result is advanced protection against the effects of moisture, decay and stains from mold and mildew.



INTERIOR FINISHES

Pella wood products can arrive with factory-prefinished interiors in your choice of eleven beautiful stain colors or four paint colors. Primed ready-to-paint interiors are also available.²

Stains Paints



EXTERIOR FINISHES

Our low-maintenance, aluminum-clad exteriors with EnduraClad® resist chalking and fading and are available in 27 standard colors and custom options to meet your design needs. Take durability further with EnduraClad Plus protective finish, which meets the industry's highest exterior coating standard to defend against chalking and fading.⁵⁷

Exterior Finish



For Pros

Exterior Finishes

Aluminum-clad wood products are available with Pella's high performance EnduraClad® protective finishes or EnduraClad Plus protective exterior finishes to help keep your vision fresh and crisp for years.

- Durable, low-maintenance EnduraClad aluminum cladding with EnduraClad protective finish for most projects where resistance to fading, chalking, chemicals and abrasion is needed. Meets the performance requirements of AAMA 2603.



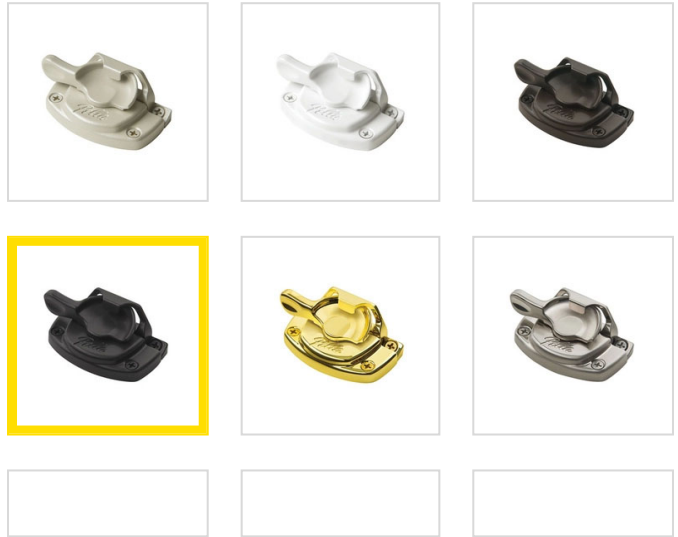
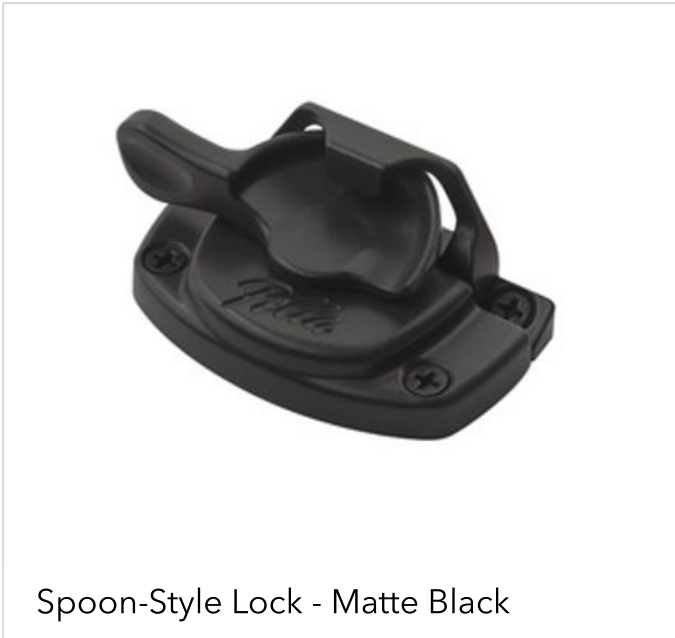
strength 70% fluoropolymer resin finishes can deliver. Meets the performance requirements of AAMA 2605.

STYLING YOUR WINDOW

HARDWARE

Pella's hardware styles are available in today's most popular finishes.

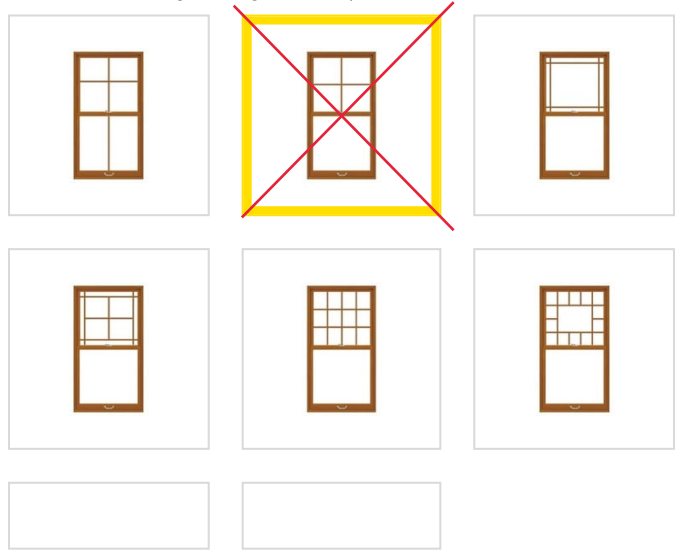
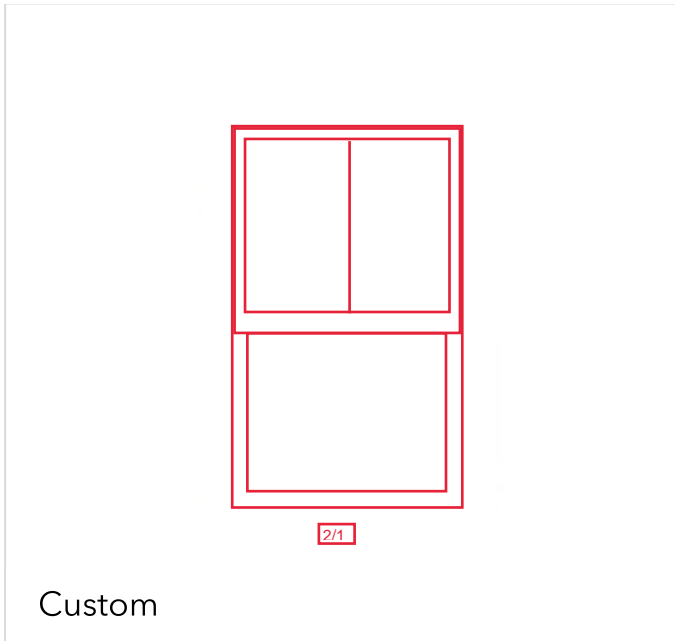
Classic Collection Rustic Collection Essential Collection



GRILLE PATTERNS

Grilles give the appearance of individual windowpanes. Pella offers many grille patterns to help enhance your home's architectural style.





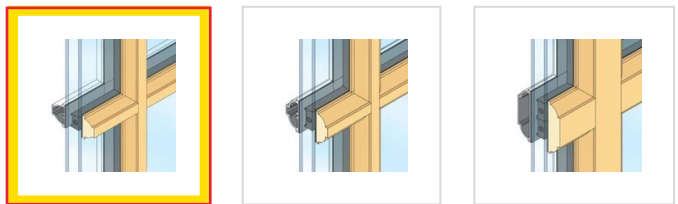
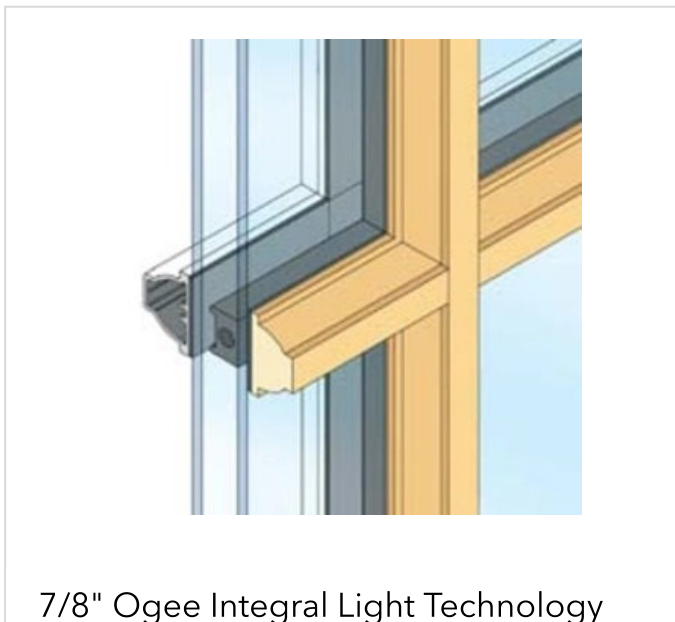
GRILLE PROFILES

For the classic look of individual windowpanes, choose grilles-between-the-glass, removable roomside grilles or Integral Light Technology Grilles. [Learn more about grilles.](#)

Integral Light Technology® Grilles

Removable Roomside Wood Grilles

Grilles-Between-the-Glass



For Pros



Product Selection Guide

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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.



Architect Series® Traditional Hung Window

Size and Performance Data

	Clad LX	Wood LX	Clad SE
Sizes			
Standard double-hung vent/fixed sizes	●	●	●
Transom sizes	●	●	●
Egress sizes	●	●	●
Single-hung	●	●	–
Simulated-hung	●	●	–
Single-hung – arch head	●	●	–
Cottage sash split	●	●	●
Variable sash split	●	●	–
Special sizes available	●	●	●
Performance ¹			
Meets or Exceeds AAMA/WDMA Ratings	H-CW30 - CW50 Hallmark Certified	H-CW30 - CW45 Hallmark Certified	H-CW30 - CW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure) ₂	0.11	0.11	0.11
Water Resistance	4.6 - 7.5 psf	4.6 - 6.9 psf	4.6 - 7.5 psf
Design Pressure	30 - 50 psf	30 - 45 psf	30 - 50 psf
Products with Impact-resistant Glass	CW - 60 Hallmark Certified	–	–
Other Performance Criteria			
Forced Entry Resistance Level (Minimum Security Grade) ₃	10	10	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ₄	40/45	40/45	40/45

Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested ₅	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
Architect Series Wood LX window	WITH INTEGRAL GRILLES						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	27	24
	45" x 65"	11/16"	3 mm	6 mm Laminated	–	34	29
	WITH REMOVABLE OR NO GRILLES						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	26	22
	45" x 65"	11/16"	3 mm	3 mm	–	29	24
Architect Series Clad LX or SE window	WITH INTEGRAL GRILLES						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	27	25
	45" x 65"	11/16"	3 mm	3 mm	–	29	25
	45" x 65"	11/16"	3 mm	5 mm	–	33	29
	45" x 65"	11/16"	3 mm	6 mm Laminated	–	34	29
	WITH REMOVABLE OR NO GRILLES						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	26	22
	45" x 65"	11/16"	3 mm	3 mm	–	28	23
	45" x 65"	11/16"	3 mm	5 mm	–	32	28
45" x 65"	11/16"	3 mm	6 mm Laminated	–	33	28	

(–) = 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.

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

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

(4) Glazing configurations may result in higher operational forces

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



Architect Series® Traditional Hung Window

Features and Options

Standard	Options / Upgrades
Glazing	
Glazing Type	
Dual-Pane Insulating Glass	–
Insulated Glass Options/Low-E Types	
Advanced Low-E	SunDefense™ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	Clear (no Low-E coating)
Additional Glass Options	
Annealed Glass	Tempered Glass
	Obscure Glass ¹
	Tinted Glass (Bronze, Gray and Green)
	Impact-Resistant Glass (Laminated Dual-Pane Insulating Glass ²)
Gas Fill/High Altitude	
Argon	High altitude
Wood types	
Pine	Mahogany (clad and wood LX only), Douglas Fir (clad LX only)
Exterior¹	
EnduraClad® protective finish	EnduraClad Plus protective finish
	Factory Primed Pine wood exterior
	Unfinished Mahogany wood exterior
Interior	
Unfinished Wood	Factory primed ³ , Factory prefinished paint ³ , Factory prefinished stain
Hardware	
Hardware Finish	
Champagne, White, Brown or Matte Black	Bright Brass, Satin Nickel, Oil-Rubbed Bronze, Antique Brass, Distressed Bronze, Distressed Nickel
Sash Locks	
Cam-action lock	Simulated lock, Air conditioner lock, Historical spoon-style lock (surface mounted)
Tilt-Wash Cleaning	
Tilt to interior on both sashes	–
Other Hardware	
–	Sash lifts
Grilles	
Integral Light Technology® Grilles	
–	Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom
Roomside Removable Grilles	
–	Traditional, Prairie, Custom
Grilles-Between-the-Glass	
–	Traditional, Prairie, Top Row ¹ , Cross or Custom-Equally Divided
Screens	
–	Full-Height or Half-height InView™ screens or Vivid View® screens

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

(2) Low-E coatings are limited on Laminated Glass, see detailed product description or glazing performance for full details.

(3) Not available on Mahogany and Douglas Fir interiors.



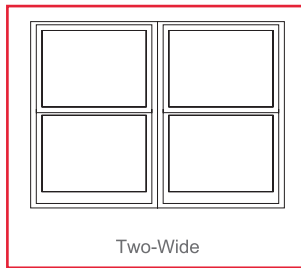
Architect Series® Traditional Hung Window

Combinations

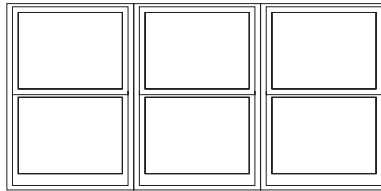
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullered together by a combination or reinforcing mullion.

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. Refer to Clad/Wood Overview Section for typical combinations requirements, and limitations related to mulling various combinations.

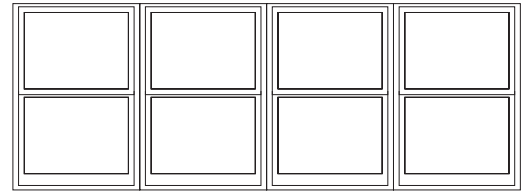
Contact your local Pella sales representative for more information.



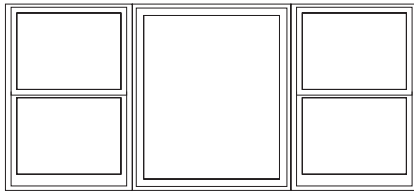
Two-Wide



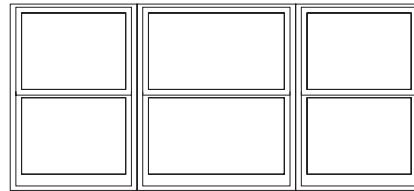
Three-Wide Equal



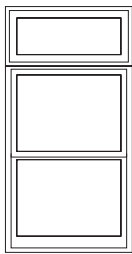
Four-Wide Equal



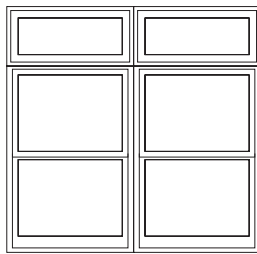
Center Fixed with Flankers



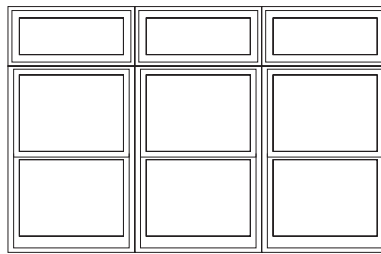
Three-Wide Unequal



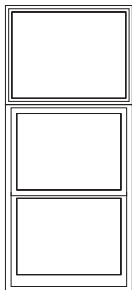
Transom over Single



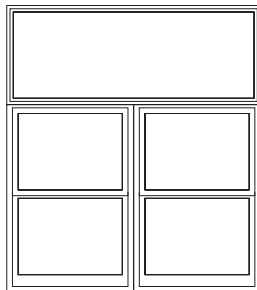
Two-Wide Transoms over Two-Wide



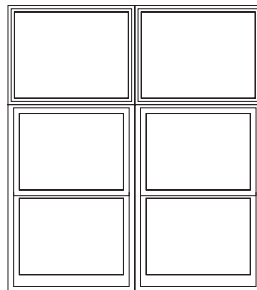
Three-Wide Transoms over Three-Wide



Clad Frame over Single



Single Clad Frame over Two-Wide



Two Wide Clad Frame over Two-Wide



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

• [Combination Recommendations Downloadable PDF.](#)



Architect Series® Traditional Hung Window

Glazing Performance - Total Unit

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
Vent Dual-Pane Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA
11/16"	Clear IG	PEL-N-232-00217-00001	2.5	2.5	Air	0.46	0.59	0.62	44					
	with grilles-between-the-glass	PEL-N-232-00218-00001				0.46	0.53	0.55	44					
	with integral grilles	PEL-N-232-00219-00001				0.46	0.53	0.55	44					
11/16"	Clear IG	PEL-N-232-00221-00001	3	3	Air	0.46	0.58	0.61	44					
	with grilles-between-the-glass	PEL-N-232-00222-00001				0.46	0.52	0.54	44					
	with integral grilles	PEL-N-232-00223-00001				0.46	0.52	0.54	44					
11/16"	Advanced Low-E IG	PEL-N-232-00253-00001	2.5	2.5	Argon	0.29	0.28	0.53	60		NC			
	with grilles-between-the-glass	PEL-N-232-00254-00001				0.29	0.25	0.47	60		NC	SC	S	
	with integral grilles	PEL-N-232-00255-00001				0.29	0.25	0.47	60		NC	SC	S	
11/16"	Advanced Low-E IG	PEL-N-232-00257-00001	3	3	Argon	0.29	0.28	0.52	59		NC			
	with grilles-between-the-glass	PEL-N-232-00258-00001				0.29	0.25	0.46	59		NC	SC	S	
	with integral grilles	PEL-N-232-00259-00001				0.29	0.25	0.46	59		NC	SC	S	
11/16"	SunDefense™ Low-E IG	PEL-N-232-00301-00001	2.5	2.5	Argon	0.28	0.21	0.49	60		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00302-00001				0.28	0.19	0.43	60		NC	SC	S	
	with integral grilles	PEL-N-232-00303-00001				0.29	0.19	0.43	60		NC	SC	S	
11/16"	SunDefense™ Low-E IG	PEL-N-232-00305-00001	3	3	Argon	0.28	0.21	0.48	60		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00306-00001				0.28	0.19	0.43	60		NC	SC	S	
	with integral grilles	PEL-N-232-00307-00001				0.29	0.19	0.43	60		NC	SC	S	
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00277-00001	2.5	2.5	Argon	0.25	0.27	0.51	49	N	NC			
	with grilles-between-the-glass	PEL-N-232-00278-00001				0.25	0.25	0.46	49	N	NC	SC	S	
	with integral grilles	PEL-N-232-00279-00001				0.26	0.25	0.46	49	N	NC	SC	S	
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00281-00001	3	3	Argon	0.25	0.27	0.51	48	N	NC			
	with grilles-between-the-glass	PEL-N-232-00282-00001				0.25	0.25	0.45	48	N	NC	SC	S	
	with integral grilles	PEL-N-232-00283-00001				0.26	0.25	0.45	48	N	NC	SC	S	
11/16"	NaturalSun Low-E IG	PEL-N-232-00229-00001	2.5	2.5	Argon	0.30	0.52	0.60	60	N				
	with grilles-between-the-glass	PEL-N-232-00230-00001				0.30	0.47	0.53	60	N				
	with integral grilles	PEL-N-232-00231-00001				0.30	0.47	0.53	60	N				
11/16"	NaturalSun Low-E IG	PEL-N-232-00233-00001	3	3	Argon	0.30	0.51	0.59	59	N				
	with grilles-between-the-glass	PEL-N-232-00234-00001				0.30	0.46	0.52	59	N				
	with integral grilles	PEL-N-232-00235-00001				0.30	0.46	0.52	59	N				
Tinted Glazing														
11/16"	Bronze Advanced Low-E IG	PEL-N-232-00325-00001	5	3	Argon	0.29	0.25	0.34	48		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00326-00001				0.31	0.22	0.30	48				S	
	with integral grilles	PEL-N-232-00327-00001				0.30	0.22	0.30	48		NC	SC	S	
11/16"	Gray Advanced Low-E IG	PEL-N-232-00333-00001	5	3	Argon	0.29	0.23	0.29	58		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00334-00001				0.31	0.21	0.26	58				S	
	with integral grilles	PEL-N-232-00335-00001				0.30	0.21	0.26	58		NC	SC	S	
11/16"	Green Advanced Low-E IG	PEL-N-232-00341-00001	5	3	Argon	0.29	0.28	0.46	58		NC			
	with grilles-between-the-glass	PEL-N-232-00342-00001				0.31	0.25	0.25	58				S	
	with integral grilles	PEL-N-232-00343-00001				0.30	0.25	0.41	58		NC	SC	S	

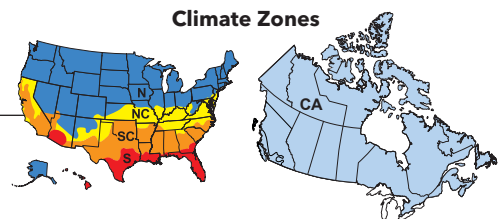
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

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

Non Rectangular Unit thermal values will vary slightly.





Architect Series® Traditional Hung Window

Glazing Performance - Total Unit

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	
Vent Dual-Pane High Altitude Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA		
11/16"	Advanced Low-E IG	PEL-N-232-00265-00001	2.5	2.5	Air	0.32	0.28	0.53	56							
	with grilles-between-the-glass	PEL-N-232-00265-00001				0.32	0.25	0.47	56				S			
	with integral grilles	PEL-N-232-00267-00001				0.33	0.25	0.47	56				S			
11/16"	Advanced Low-E IG	PEL-N-232-00269-00001	3	3	Air	0.32	0.28	0.52	55							
	with grilles-between-the-glass	PEL-N-232-00270-00001				0.32	0.25	0.46	55				S			
	with integral grilles	PEL-N-232-00271-00001				0.33	0.25	0.46	55				S			
11/16"	SunDefense Low-E IG	PEL-N-232-00313-00001	2.5	2.5	Air	0.32	0.21	0.49	57				S			
	with grilles-between-the-glass	PEL-N-232-00314-00001				0.32	0.19	0.43	57				S			
	with integral grilles	PEL-N-232-00315-00001				0.33	0.19	0.43	57				S			
11/16"	SunDefense Low-E IG	PEL-N-232-00317-00001	3	3	Air	0.32	0.21	0.48	56				S			
	with grilles-between-the-glass	PEL-N-232-00318-00001				0.32	0.19	0.43	56				S			
	with integral grilles	PEL-N-232-00319-00001				0.33	0.19	0.43	56				S			
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00289-00001	2.5	2.5	Air	0.27	0.28	0.51	45	N	NC					
	with grilles-between-the-glass	PEL-N-232-00290-00001				0.27	0.25	0.46	45	N	NC	SC	S			
	with integral grilles	PEL-N-232-00291-00001				0.28	0.25	0.46	45		NC	SC	S			
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00293-00001	3	3	Air	0.28	0.27	0.51	44		NC					
	with grilles-between-the-glass	PEL-N-232-00294-00001				0.28	0.25	0.45	44		NC	SC	S			
	with integral grilles	PEL-N-232-00295-00001				0.28	0.25	0.45	44		NC	SC	S			
11/16"	NaturalSun Low-E IG	PEL-N-232-00241-00001	2.5	2.5	Air	0.33	0.52	0.60	56							
	with grilles-between-the-glass	PEL-N-232-00242-00001				0.33	0.47	0.53	56							
	with integral grilles	PEL-N-232-00243-00001				0.34	0.47	0.53	56							
11/16"	NaturalSun Low-E IG	PEL-N-232-00245-00001	3	3	Air	0.33	0.51	0.59	55							
	with grilles-between-the-glass	PEL-N-232-00246-00001				0.33	0.46	0.52	55							
	with integral grilles	PEL-N-232-00247-00001				0.34	0.46	0.52	55							

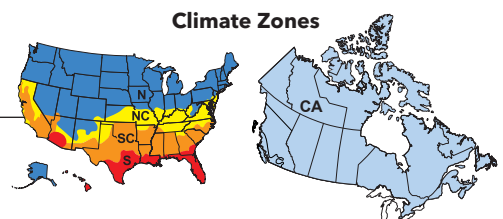
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

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

Non Rectangular Unit thermal values will vary slightly.





Architect Series® Traditional Hung Window

Glazing Performance - Total Unit

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	
Vent - Laminated Impact-Resistant Glass										N	NC	SC	S	CA		
13/16"	Clear IG	PEL-N-235-00601-00001	3	8	Air	0.44	0.51	0.55	44							
	with grilles-between-the-glass	PEL-N-235-00602-00001				0.44	0.45	0.49	44							
	with integral grilles	PEL-N-235-00603-00001				0.44	0.45	0.49	44							
13/16"	Advanced Low-E IG	PEL-N-235-00721-00001	3	8	Argon	0.28	0.25	0.47	59		NC	SC	S			
	with grilles-between-the-glass	PEL-N-235-00722-00001				0.29	0.23	0.41	59		NC	SC	S			
	with integral grilles	PEL-N-235-00723-00001				0.29	0.23	0.41	59		NC	SC	S			
13/16"	SunDefense™ Low-E IG	PEL-N-235-00897-00001	3	8	Argon	0.28	0.19	0.43	59		NC	SC	S			
	with grilles-between-the-glass	PEL-N-235-00898-00001				0.29	0.17	0.38	59		NC	SC	S			
	with integral grilles	PEL-N-235-00899-00001				0.29	0.17	0.38	59		NC	SC	S			
Tinted Laminated Impact-Resistant Glass																
13/16"	Bronze Advanced Low-E IG	PEL-N-235-00769-00001	5	8	Argon	0.31	0.23	0.19	57					S		
	with grilles-between-the-glass	PEL-N-235-00770-00001				0.32	0.21	0.16	56					S		
	with integral grilles	PEL-N-235-00771-00001				0.32	0.21	0.16	56					S		
13/16"	Gray Advanced Low-E IG	PEL-N-235-00801-00001	5	8	Argon	0.31	0.24	0.24	57					S		
	with grilles-between-the-glass	PEL-N-235-00802-00001				0.32	0.21	0.21	57					S		
	with integral grilles	PEL-N-235-00803-00001				0.32	0.21	0.21	57					S		
13/16"	Green Advanced Low-E IG	PEL-N-235-00833-00001	5	8	Argon	0.31	0.24	0.38	57					S		
	with grilles-between-the-glass	PEL-N-235-00834-00001				0.32	0.22	0.34	56					S		
	with integral grilles	PEL-N-235-00835-00001				0.32	0.22	0.34	57					S		

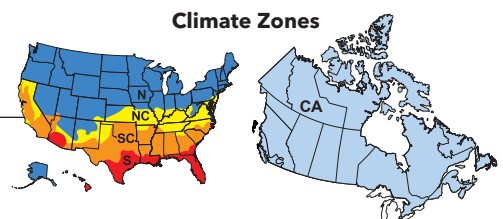
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
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(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

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

Non Rectangular Unit thermal values will vary slightly.



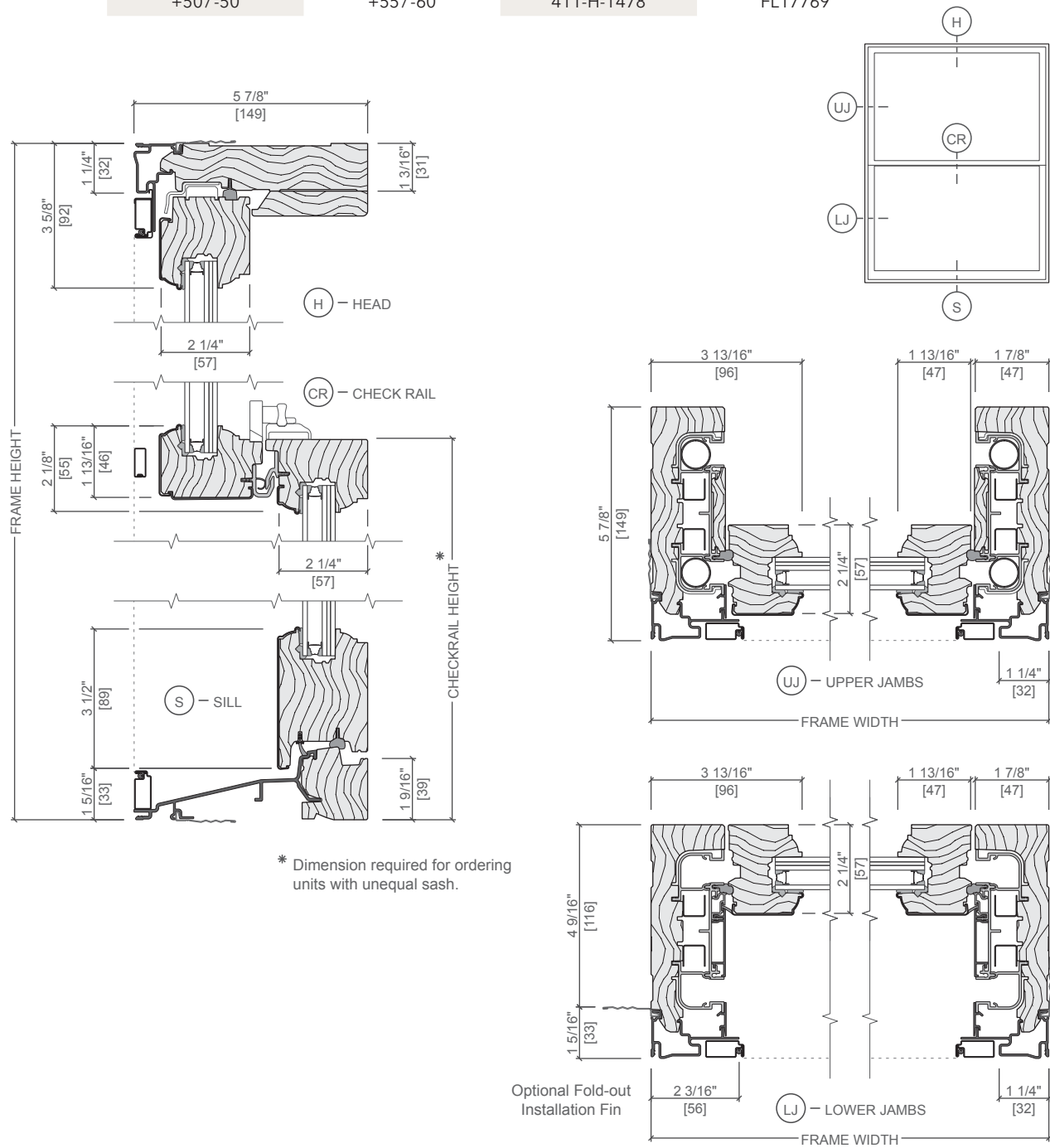


Architect Series® Traditional Hung Window

Products with Impact-Resistant Glass

For a complete list of ratings, refer to the Impact-Resistant product section.

Material	Design Pressure Large Missile Rating D		Hallmark Certified	Florida Product Approval System
	Minimum	Maximum		
PVB 1				
Clad	+50/-50	+55/-60	411-H-1478	FL17769



Click to view Impact-Resistant Section

[Double-Hung Downloadable PDF](#)

(1) All impact sizes and glass types are certified for wind zone 3, large missile rating D. Not approved for use in Miami-Dade County.

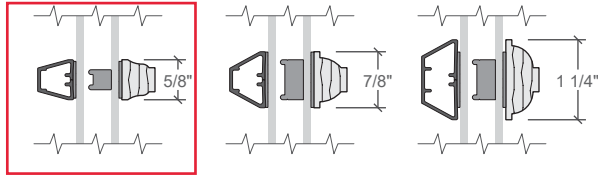


Architect Series® Traditional Hung Window

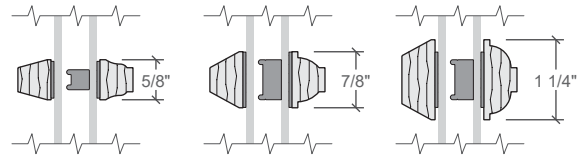
Grille Profiles

Integral Light Technology®

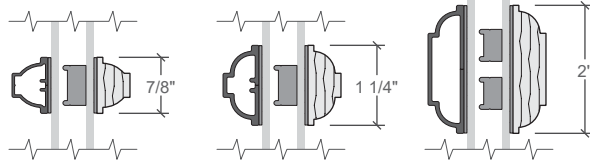
Putty and Ogee Glaze Grilles
Clad Exterior - Wood Interior



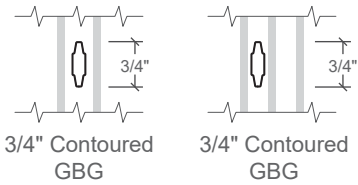
Putty and Ogee Glaze Grilles
Wood Exterior - Wood Interior



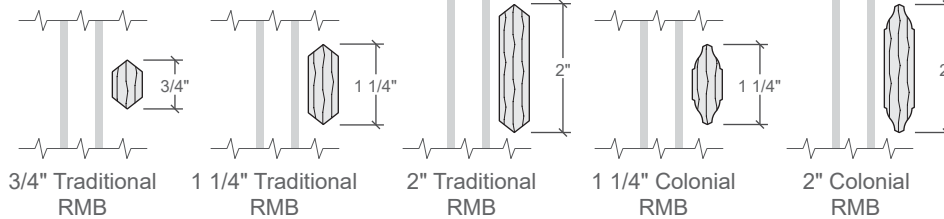
Ogee Glaze Grilles
Clad Exterior - Wood Interior



Contoured Aluminum -
Grilles-Between-the-Glass



Removable Interior Pine Grilles



Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.

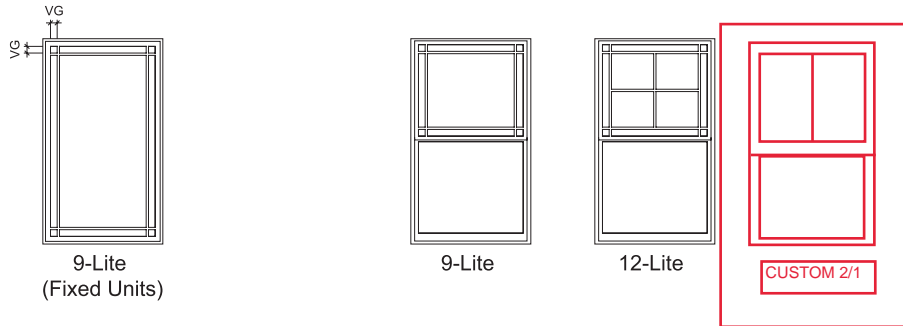


Architect Series® Traditional Hung Window

Grille Patterns

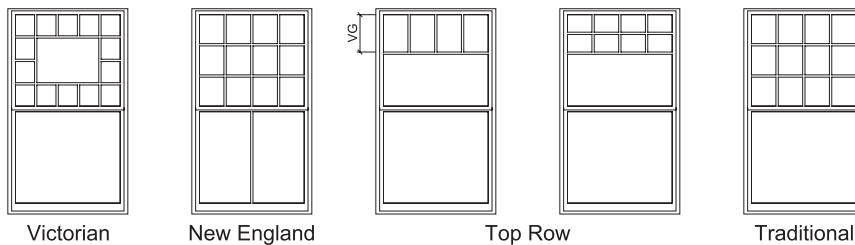
Integral light technology® Grilles and Roomside Removable Grilles

Prairie Lite Patterns



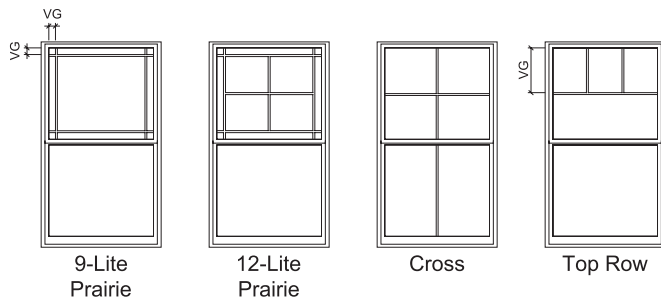
Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
Available in transoms ≥ 1'3" height and width.
Available in all standard and special sizes.

Other Available Patterns



VG = Visible Glass
Lite dimensions noted can vary.
For size and pattern availability contact your local Pella sales representative.

Grilles-Between-the-Glass

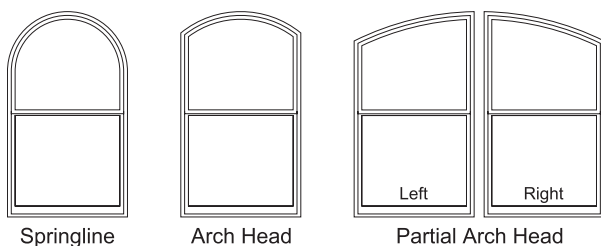


- Prairie**
 - Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
 - Available in transoms ≥ 1'3" height and width.
- Cross**
 - Minimum DH frame height 35".
 - Horizontal bar will be at 1/2" of the VG height of the top sash.
- Top Row**
 - Minimum DH frame height 35".
 - Horizontal bar will be at 1/2" of the VG height of the top sash.

For traditional patterns, see size tables.

Custom shapes

Pella Reserve single-hung windows are available in custom shapes shown below, and additional shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.





Architect Series® Traditional Hung Window

Detailed Product Description - Aluminum-Clad Exterior

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 [LX: [clear pine] [mahogany] [douglas fir]] [SE: clear pine].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- 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.
- Vinyl jamb liner [LX includes wood / clad inserts].
- 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 [LX: [clear pine] [mahogany] [douglas fir]] [SE: clear pine].
- Exterior surfaces are clad with aluminum and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Sash exterior and interior profile is ogee.
- Double-Hung: Upper sash has surface-mounted wash locks [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.

Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

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

Exterior

- Aluminum-clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
 - Color is [standard] [custom].
- 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 [standard] [custom].

Interior

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

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed, lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Bright Brass] [Satin Nickel] [Oil-rubbed Bronze] [Antique Brass] [Distressed Bronze] [Distressed Nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
 - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [LX: [pine] [mahogany] [douglas fir]] [SE: pine]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain] 1].
 - Exterior grilles are [5/8" putty glaze profile] [7/8" [putty glaze] [ogee] profile] [1-1/4" [putty glaze] [ogee] profile] [2" ogee profile] that are extruded aluminum.
 - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
 - 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-Glass₂

- Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
 - Interior color is [White] [Tan 3] [Brown 3] [Putty 3] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₅ is [standard] 1.
- or -

Roomside 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 [paint] [stain] 1].
 - Exterior [unfinished, ready for site finishing] [factory primed] [finish color matched to exterior cladding] 5.

Screens

- InView™ screens
 - [Half-Size] [Full-Size₄] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Insect screen frame finish is baked enamel, color to match window cladding.
- or -
- Vivid View® screens
 - [Half-Size] [Full-Size₄] PVDF 21 / 17 mesh, minimum 78 percent light transmissive screen, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Insect screen frame finish is baked enamel, color to match window cladding.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device available. 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.

(2) Available on units glazed with Low-E insulated glass with argon, clear insulated glass and obscure insulated glass.

(3) Tan, Brown and 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.

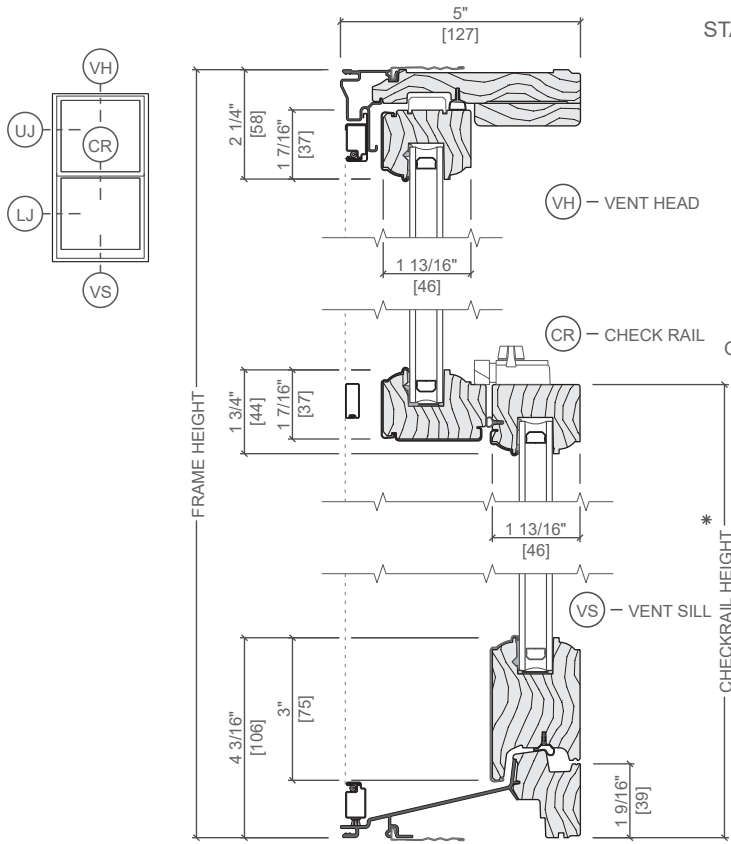
(4) Full screens are available on units ≤ 96" height.

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

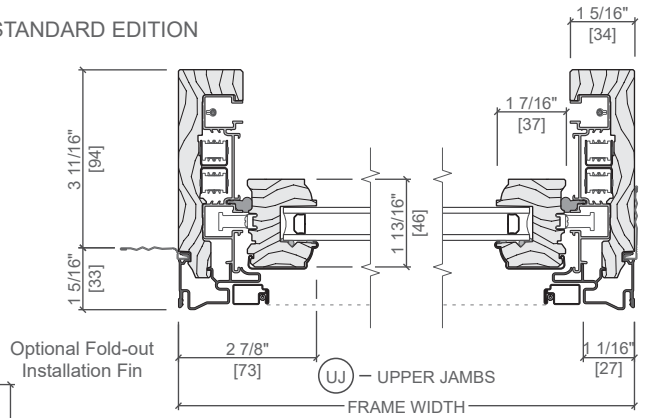


Architect Series® Traditional Hung Window

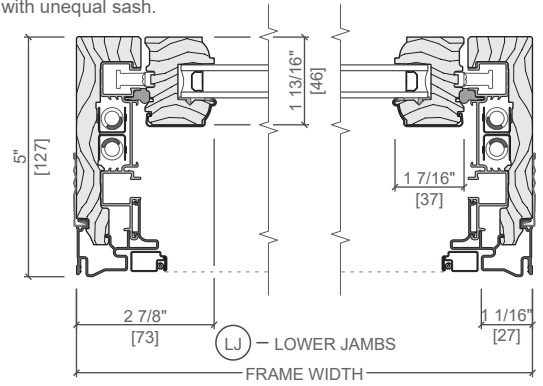
SE Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



STANDARD EDITION



* Dimension required for ordering units with unequal sash.



Scale 3" = 1' 0"

All dimensions are approximate.