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Supporting documents for this product:

(Link path included for easy copy/paste sharing, click on links to open document or access by visiting Pella.com)

Test Reports:

https://media.pella.com/professional/adm/CertificationReports/Test_Reports_AS-Clad.pdf?utm_source=pdfdoc

CSI Specs

(readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Wood-CSI_Specs/08552-R.rtf?utm_source=pdfdoc

AIA Masterspec

(readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Wood-CSI_Specs/Masterspec/085200_fl.doc?utm_source=pdfdoc

Detailed Product Description

(readable using Microsoft Word or other text editing application):

Clad: https://media.pella.com/professional/adm/Clad-Wood/PR-DoubleHung-C.rtf?utm_source=pdfdoc

Wood: https://media.pella.com/professional/adm/Clad-Wood/PR-DoubleHung-W.rtf?utm_source=pdfdoc

Size Tables

(requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/ASCDHEV_D.dwg?utm_source=pdfdoc

CAD cross sections

(requires appropriate CAD software to read and use):

Clad: https://media.pella.com/professional/adm/Clad-Wood/ASRM5DH3_D.dwg?utm_source=pdfdoc

Wood: https://media.pella.com/professional/adm/Clad-Wood/ASWM4DHRPT3b.dwg?utm_source=pdfdoc

3D & BIM

(requires appropriate software to read and use):

https://media.pella.com/professional/adm/RevitFiles/PR-Revit/Window-Double_Hung-Pella-Reserve-Traditional.zip?utm_source=pdfdoc

Sketchup

(requires appropriate software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/PellaSKP_PellaReserve_Traditional_Double-Hung.zip?utm_source=pdfdoc

Combination Recommendations:

https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf?utm_source=pdfdoc

Installation Details:

https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf?utm_source=pdfdoc

Impact-Resistant Double-Hung, Complete Product Information:

https://media.pella.com/professional/adm/Clad-Wood/Pella-ImpactResistant_DoubleHung.pdf?utm_source=pdfdoc

Bay/Bow Details:

https://media.pella.com/professional/adm/Clad-Wood/Pella-Wood_BayBowWindows.pdf?utm_source=pdfdoc

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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.



Pella® Reserve™ Traditional Hung Window

Size and Performance Data

Air/Water/Structural Performance ₁	
Meets or Exceeds AAMA/WDMA Ratings	H-CW30 - CW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure) ₂	0.11
Water Resistance	4.6 – 7.5 psf
Design Pressure	30 – 50 psf

Other Performance Criteria	
Forced Entry Resistance Level (Minimum Security Grade) ₃	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ₄	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		
Clad Double-Hung Window	WITHOUT GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	28	24
	47" x 59"	11/16"	5mm	3mm	—	31	27
	45" x 65"	11/16"	3mm	6mm PVB	—	33	28
Wood Double-Hung Window	WITHOUT GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	26	22
	45" x 65"	11/16"	3mm	3mm	—	29	24

(—) = 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.



Pella® Reserve™ 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
	SunDefense+ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	NaturalSun+ Low-E
Additional Glass Options	
Annealed Glass	Tempered Glass
	Obscure Glass ₁
	Low-E Tinted Glass (Bronze, Gray and Green)
	Non-Impact Laminated Dual-Pane Insulating Glass
Gas Fill/High Altitude	
Argon	High altitude
Exterior	
Exterior Sash Profile	
Ogee	Putty Glaze
Exterior Finish	
EnduraClad® aluminum-clad exterior	EnduraClad Plus protective finish, Factory Primed Pine wood exterior, Unfinished Mahogany wood exterior
Cladding Colors	
Standard colors ₁	Feature Colors, Custom Colors ₁
Interior	
Unfinished wood	Factory primed
	Factory prefinished paint ₁
	Factory prefinished stain ₁
Wood Types	
Pine	Mahogany, Douglas Fir
Hardware	
Hardware Types	
Sash lifts, Cam-action lock	Simulated lock
	Air conditioner lock
	Historical spoon-style lock (surface mounted)
Hardware Finishes	
Champagne, White, Brown or Matte Black	Satin Brass, Satin Nickel, Oil-Rubbed Bronze, Distressed Bronze, Distressed Nickel ₄
Tilt-Wash Cleaning	
Tilt to interior on both sashes	—
Grilles	
Integral Light Technology® Grilles	
—	Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom
Grilles-Between-the-Glass	
—	Traditional, Prairie, Top Row ₁ , Cross, Custom-Equally Divided
Screens	
—	Integrated Rolscreen® - retractable screen, InView™ screens, in standard roll-form or premium extruded aluminum frame

(—) = Not Available

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

(2) Only available for Pella Reserve products with triple glazing. Not available with high altitude glazing.

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

(4) Antique Brass, Distressed Nickel, Distressed Bronze finishes available for Historical spoon-style lock only.

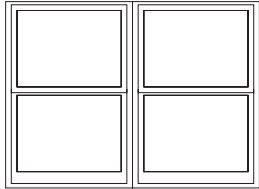


Combination Assemblies - Rectangular Units

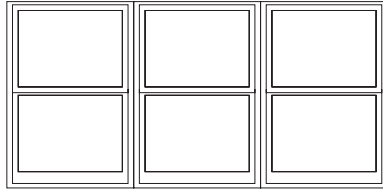
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are some examples of factory-assembled combinations. See the Combinations Recommendations document for typical mullions, requirements and limitations.

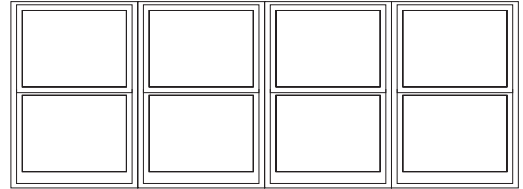
Contact your local Pella sales representative for more information.



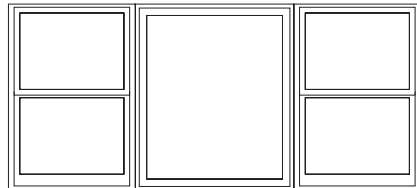
Two-Wide



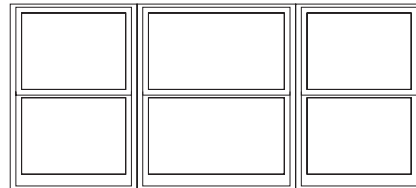
Three-Wide Equal



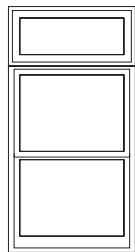
Four-Wide Equal



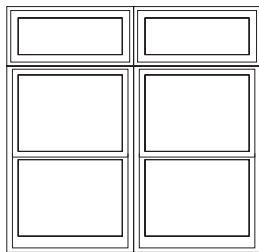
Center Fixed with Flankers



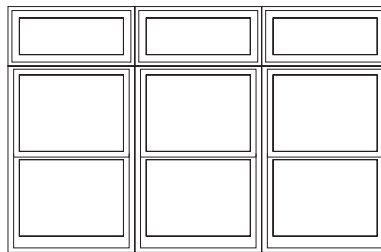
Three-Wide Unequal



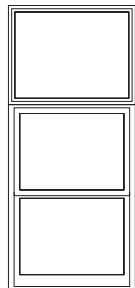
Transom over Single



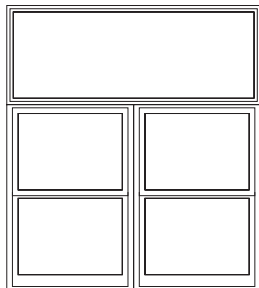
Two-Wide Transoms over Two-Wide



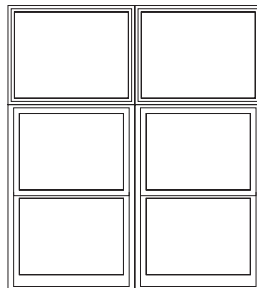
Three-Wide Transoms over Three-Wide



Clad Frame over Single



Single Clad Frame over Two-Wide



Two Wide Clad Frame over Two-Wide

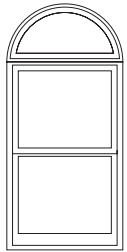


Combination Assemblies - Arch Top Units

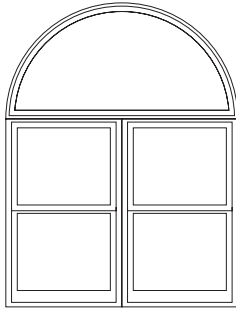
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements, below are some examples. See the Combinations Recommendations document for typical mullions, requirements and limitations.

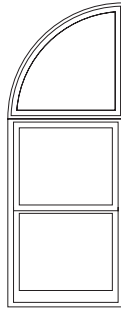
Contact your local Pella sales representative for more information.



Half Circle over Single



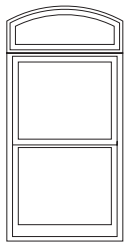
Half Circle over Two-Wide



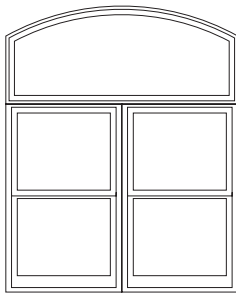
Left Quarter Circle over Single



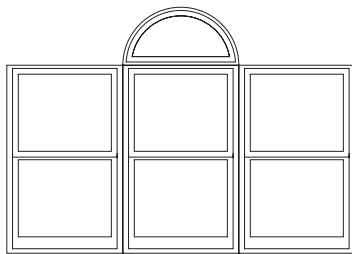
Right Quarter Circle over Single



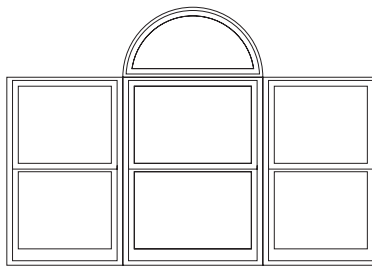
Arch Head over Single



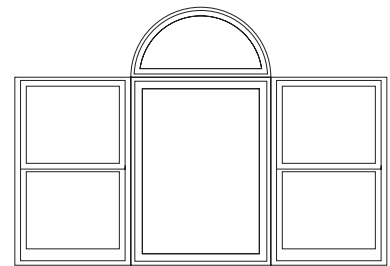
Arch Head over Two-Wide



Half Circle centered on Three-Wide Equal



Half Circle over Three-Wide Unequal



Half Circle over Center Fixed with Flankers



Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

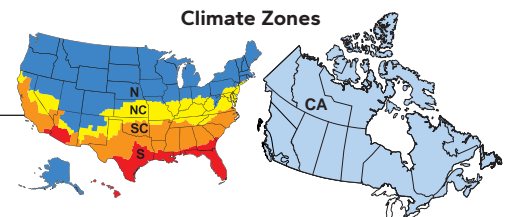
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada ²		
										Zone				ER	Zone	
Vent Dual-Pane Glazing - Aluminum-Clad Exterior										N	NC	SC	S		ER	CA
11/16"	Clear IG	PEL-N-232-01105-00001	2.5	2.5	air	0.46	0.60	0.62	44							
	with grilles-between-the-glass	PEL-N-232-01106-00001				0.46	0.53	0.55	44							
	with integral grilles	PEL-N-232-01107-00001				0.46	0.53	0.55	44							
11/16"	Clear IG	PEL-N-232-01109-00001	3	3	air	0.46	0.58	0.61	44							
	with grilles-between-the-glass	PEL-N-232-01110-00001				0.46	0.52	0.55	44							
	with integral grilles	PEL-N-232-01111-00001				0.46	0.52	0.55	44							
11/16"	Advanced Low-E IG	PEL-N-232-01141-00001	2.5	2.5	argon	0.29	0.28	0.53	60							
	with grilles-between-the-glass	PEL-N-232-01142-00001				0.29	0.25	0.47	60							
	with integral grilles	PEL-N-232-01143-00001				0.29	0.25	0.47	60							
11/16"	Advanced Low-E IG	PEL-N-232-01145-00001	3	3	argon	0.29	0.28	0.52	59							
	with grilles-between-the-glass	PEL-N-232-01146-00001				0.29	0.25	0.46	59							
	with integral grilles	PEL-N-232-01147-00001				0.29	0.25	0.46	59							
11/16"	SunDefense™ Low-E IG	PEL-N-232-01189-00001	2.5	2.5	argon	0.28	0.21	0.49	60			SC	S			
	with grilles-between-the-glass	PEL-N-232-01190-00001				0.28	0.19	0.43	60			SC	S			
	with integral grilles	PEL-N-232-01191-00001				0.29	0.19	0.43	60				S			
11/16"	SunDefense™ Low-E IG	PEL-N-232-01193-00001	3	3	argon	0.28	0.21	0.48	59			SC	S			
	with grilles-between-the-glass	PEL-N-232-01194-00001				0.28	0.19	0.43	59			SC	S			
	with integral grilles	PEL-N-232-01195-00001				0.29	0.19	0.43	59				S			
11/16"	SunDefense+ Low-E IG	PEL-N-232-01813-00001	2.5	2.5	argon	0.25	0.20	0.48	49		NC	SC	S			
	with grilles-between-the-glass	PEL-N-232-01814-00001				0.25	0.18	0.42	49		NC	SC	S			
	with integral grilles	PEL-N-232-01815-00001				0.25	0.18	0.42	49		NC	SC	S			
11/16"	SunDefense+ Low-E IG	PEL-N-232-01821-00001	3	3	argon	0.25	0.20	0.47	48		NC	SC	S			
	with grilles-between-the-glass	PEL-N-232-01822-00001				0.25	0.18	0.42	48		NC	SC	S			
	with integral grilles	PEL-N-232-01823-00001				0.26	0.18	0.42	48			SC	S			
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01165-00001	2.5	2.5	argon	0.25	0.28	0.52	48		NC					
	with grilles-between-the-glass	PEL-N-232-01166-00001				0.25	0.25	0.46	48		NC					
	with integral grilles	PEL-N-232-01167-00001				0.26	0.25	0.46	48							
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01169-00001	3	3	argon	0.25	0.27	0.51	47		NC					
	with grilles-between-the-glass	PEL-N-232-01170-00001				0.25	0.25	0.45	47		NC					
	with integral grilles	PEL-N-232-01171-00001				0.26	0.25	0.45	47							
11/16"	NaturalSun Low-E IG	PEL-N-232-01117-00001	2.5	2.5	argon	0.30	0.52	0.60	59							
	with grilles-between-the-glass	PEL-N-232-01118-00001				0.30	0.47	0.53	59							
	with integral grilles	PEL-N-232-01119-00001				0.30	0.47	0.53	59							
11/16"	NaturalSun Low-E IG	PEL-N-232-01121-00001	3	3	argon	0.30	0.52	0.59	58							
	with grilles-between-the-glass	PEL-N-232-01122-00001				0.30	0.46	0.53	58							
	with integral grilles	PEL-N-232-01123-00001				0.30	0.46	0.53	58							
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01781-00001	2.5	2.5	argon	0.26	0.48	0.58	47	N					35	CA
	with grilles-between-the-glass	PEL-N-232-01782-00001				0.26	0.43	0.52	47	N						
	with integral grilles	PEL-N-232-01783-00001				0.27	0.43	0.52	47							
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01789-00001	3	3	argon	0.26	0.47	0.58	46	N					34	CA
	with grilles-between-the-glass	PEL-N-232-01790-00001				0.26	0.42	0.51	46	N						
	with integral grilles	PEL-N-232-01791-00001				0.26	0.42	0.51	46	N						

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 2023 (Version 7) criteria.

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

Visit www.energystar.gov for Energy Star guidelines.
 Non Rectangular Unit thermal values will vary slightly.





Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

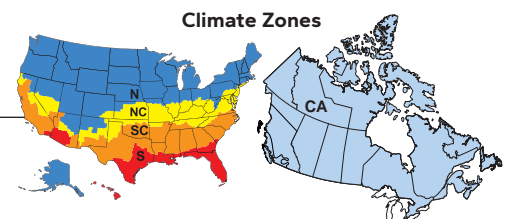
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada ²			
										Zone				ER	Zone		
										N	NC	SC	S			CA	
Tinted Glazing																	
11/16"	Bronze Advanced Low-E IG	PEL-N-232-01225-00002	5	3	argon	0.29	0.25	0.34	58								
	with grilles-between-the-glass	PEL-N-232-01226-00002				0.31	0.23	0.30	58					S			
	with integral grilles	PEL-N-232-01227-00002				0.30	0.23	0.30	58					S			
11/16"	Gray Advanced Low-E IG	PEL-N-232-01225-00003	5	3	argon	0.29	0.23	0.29	58					S			
	with grilles-between-the-glass	PEL-N-232-01226-00003				0.31	0.21	0.26	58					S			
	with integral grilles	PEL-N-232-01227-00003				0.30	0.21	0.26	58					S			
11/16"	Green Advanced Low-E IG	PEL-N-232-01225-00004	5	3	argon	0.29	0.28	0.46	58								
	with grilles-between-the-glass	PEL-N-232-01226-00004				0.31	0.25	0.41	58								
	with integral grilles	PEL-N-232-01227-00004				0.30	0.25	0.41	58								
Vent Dual-Pane High Altitude Glazing - Aluminum-Clad Exterior																	
11/16"	Advanced Low-E IG	PEL-N-232-01153-00001	2.5	2.5	air	0.32	0.28	0.53	56								
	with grilles-between-the-glass	PEL-N-232-01154-00001				0.32	0.25	0.47	56								
	with integral grilles	PEL-N-232-01155-00001				0.33	0.25	0.47	56								
11/16"	Advanced Low-E IG	PEL-N-232-01157-00001	3	3	air	0.32	0.28	0.52	55								
	with grilles-between-the-glass	PEL-N-232-01158-00001				0.32	0.25	0.46	55								
	with integral grilles	PEL-N-232-01159-00001				0.33	0.25	0.46	55								
11/16"	SunDefense™ Low-E IG	PEL-N-232-01201-00001	2.5	2.5	air	0.32	0.21	0.49	56					S			
	with grilles-between-the-glass	PEL-N-232-01202-00001				0.32	0.19	0.43	56					S			
	with integral grilles	PEL-N-232-01203-00001				0.33	0.19	0.43	56					S			
11/16"	SunDefense™ Low-E IG	PEL-N-232-01205-00001	3	3	air	0.32	0.21	0.48	55					S			
	with grilles-between-the-glass	PEL-N-232-01206-00001				0.32	0.19	0.43	55					S			
	with integral grilles	PEL-N-232-01207-00001				0.33	0.19	0.43	55					S			
11/16"	SunDefense+ Low-E IG	PEL-N-232-01809-00001	2.5	2.5	air	0.27	0.21	0.48	44			SC	S				
	with grilles-between-the-glass	PEL-N-232-01810-00001				0.27	0.19	0.42	44			SC	S				
	with integral grilles	PEL-N-232-01811-00001				0.28	0.19	0.42	44			SC	S				
11/16"	SunDefense+ Low-E IG	PEL-N-232-01817-00001	3	3	air	0.27	0.21	0.47	44			SC	S				
	with grilles-between-the-glass	PEL-N-232-01818-00001				0.27	0.19	0.42	44			SC	S				
	with integral grilles	PEL-N-232-01819-00001				0.28	0.19	0.42	43			SC	S				
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01177-00001	2.5	2.5	air	0.27	0.28	0.52	44								
	with grilles-between-the-glass	PEL-N-232-01178-00001				0.27	0.25	0.46	44								
	with integral grilles	PEL-N-232-01179-00001				0.28	0.25	0.46	44								
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01181-00001	3	3	air	0.28	0.27	0.51	43								
	with grilles-between-the-glass	PEL-N-232-01182-00001				0.28	0.25	0.45	43								
	with integral grilles	PEL-N-232-01183-00001				0.28	0.25	0.45	43								
11/16"	NaturalSun Low-E IG	PEL-N-232-01129-00001	2.5	2.5	air	0.33	0.52	0.60	56								
	with grilles-between-the-glass	PEL-N-232-01130-00001				0.33	0.47	0.53	56								
	with integral grilles	PEL-N-232-01131-00001				0.34	0.47	0.53	55								
11/16"	NaturalSun Low-E IG	PEL-N-232-01133-00001	3	3	air	0.33	0.51	0.59	55								
	with grilles-between-the-glass	PEL-N-232-01134-00001				0.33	0.46	0.52	55								
	with integral grilles	PEL-N-232-01135-00001				0.34	0.46	0.52	55								
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01777-00001	2.5	2.5	air	0.28	0.48	0.58	43								
	with grilles-between-the-glass	PEL-N-232-01778-00001				0.28	0.43	0.52	43								
	with integral grilles	PEL-N-232-01779-00001				0.29	0.43	0.52	43								
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01785-00001	3	3	air	0.28	0.47	0.58	43								
	with grilles-between-the-glass	PEL-N-232-01786-00001				0.28	0.42	0.51	43								
	with integral grilles	PEL-N-232-01787-00001				0.29	0.42	0.51	42								

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 2023 (Version 7) criteria.

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 Non Rectangular Unit thermal values will vary slightly.





Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

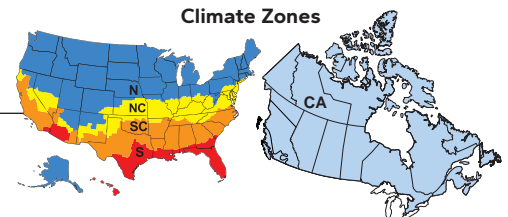
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada ²			
										Zone				ER	Zone		
Vent Dual-Pane Glazing - Wood Exterior										N	NC	SC	S			CA	
11/16"	Clear IG	PEL-N-234-01105-00001	2.5	2.5	air	0.45	0.60	0.62	44								
	with grilles-between-the-glass	PEL-N-234-01106-00001				0.45	0.54	0.56	44								
	with integral grilles	PEL-N-234-01107-00001				0.45	0.54	0.56	44								
11/16"	Clear IG	PEL-N-234-01109-00001	3	3	air	0.45	0.59	0.62	43								
	with grilles-between-the-glass	PEL-N-234-01110-00001				0.45	0.53	0.55	43								
	with integral grilles	PEL-N-234-01111-00001				0.46	0.53	0.55	43								
11/16"	Advanced Low-E IG	PEL-N-234-01141-00001	2.5	2.5	argon	0.28	0.28	0.53	59								
	with grilles-between-the-glass	PEL-N-234-01142-00001				0.28	0.25	0.47	59								
	with integral grilles	PEL-N-234-01143-00001				0.29	0.25	0.47	59								
11/16"	Advanced Low-E IG	PEL-N-234-01145-00001	3	3	argon	0.28	0.28	0.52	58								
	with grilles-between-the-glass	PEL-N-234-01146-00001				0.28	0.25	0.47	58								
	with integral grilles	PEL-N-234-01147-00001				0.29	0.25	0.47	58								
11/16"	SunDefense™ Low-E IG	PEL-N-234-01189-00001	2.5	2.5	argon	0.28	0.21	0.49	60			SC	S				
	with grilles-between-the-glass	PEL-N-234-01190-00001				0.28	0.19	0.44	60			SC	S				
	with integral grilles	PEL-N-234-01191-00001				0.28	0.19	0.44	60			SC	S				
11/16"	SunDefense™ Low-E IG	PEL-N-234-01193-00001	3	3	argon	0.28	0.21	0.49	59			SC	S				
	with grilles-between-the-glass	PEL-N-234-01194-00001				0.28	0.19	0.43	59			SC	S				
	with integral grilles	PEL-N-234-01195-00001				0.28	0.19	0.43	59			SC	S				
11/16"	SunDefense+ Low-E IG	PEL-N-234-01813-00001	2.5	2.5	argon	0.24	0.21	0.48	49		NC	SC	S				
	with grilles-between-the-glass	PEL-N-234-01814-00001				0.24	0.19	0.43	49		NC	SC	S				
	with integral grilles	PEL-N-234-01815-00001				0.25	0.19	0.43	49		NC	SC	S				
11/16"	SunDefense+ Low-E IG	PEL-N-234-01821-00001	3	3	argon	0.24	0.21	0.47	47		NC	SC	S				
	with grilles-between-the-glass	PEL-N-234-01822-00001				0.24	0.19	0.42	47		NC	SC	S				
	with integral grilles	PEL-N-234-01823-00001				0.25	0.19	0.42	47		NC	SC	S				
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01165-00001	2.5	2.5	argon	0.24	0.28	0.52	48		NC						
	with grilles-between-the-glass	PEL-N-234-01166-00001				0.24	0.25	0.46	48		NC						
	with integral grilles	PEL-N-234-01167-00001				0.25	0.25	0.46	48		NC						
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01169-00001	3	3	argon	0.24	0.28	0.51	47		NC						
	with grilles-between-the-glass	PEL-N-234-01170-00001				0.24	0.25	0.46	47		NC						
	with integral grilles	PEL-N-234-01171-00001				0.25	0.25	0.46	47		NC						
11/16"	NaturalSun Low-E IG	PEL-N-234-01117-00001	2.5	2.5	argon	0.29	0.53	0.60	59						34	CA	
	with grilles-between-the-glass	PEL-N-234-01118-00001				0.29	0.47	0.53	59								
	with integral grilles	PEL-N-234-01119-00001				0.30	0.47	0.53	59								
11/16"	NaturalSun Low-E IG	PEL-N-234-01121-00001	3	3	argon	0.29	0.52	0.59	58								
	with grilles-between-the-glass	PEL-N-234-01122-00001				0.29	0.46	0.53	58								
	with integral grilles	PEL-N-234-01123-00001				0.30	0.46	0.53	58								
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01781-00001	2.5	2.5	argon	0.25	0.48	0.59	47	N					36	CA	
	with grilles-between-the-glass	PEL-N-234-01782-00001				0.25	0.43	0.52	47	N							
	with integral grilles	PEL-N-234-01783-00001				0.26	0.43	0.52	47	N							
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01789-00001	3	3	argon	0.25	0.47	0.58	46	N					35	CA	
	with grilles-between-the-glass	PEL-N-234-01790-00001				0.25	0.42	0.52	46	N							
	with integral grilles	PEL-N-234-01791-00001				0.26	0.42	0.52	46	N							

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
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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 2023 (Version 7) criteria.

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 Non Rectangular Unit thermal values will vary slightly.





Pella® Reserve™ 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		
										N	NC	SC	S			CA	
Tinted Glazing																	
11/16"	Bronze Advanced Low-E IG	PEL-N-234-01225-00002	5	3	argon	0.29	0.25	0.34	57								
	with grilles-between-the-glass	PEL-N-234-01226-00002				0.30	0.23	0.30	57					S			
	with integral grilles	PEL-N-234-01227-00002				0.30	0.23	0.30	57					S			
11/16"	Gray Advanced Low-E IG	PEL-N-234-01225-00003	5	3	argon	0.29	0.23	0.29	57					S			
	with grilles-between-the-glass	PEL-N-234-01226-00003				0.30	0.21	0.26	57					S			
	with integral grilles	PEL-N-234-01227-00003				0.30	0.21	0.26	57					S			
11/16"	Green Advanced Low-E IG	PEL-N-234-01225-00004	5	3	argon	0.29	0.28	0.46	57								
	with grilles-between-the-glass	PEL-N-234-01226-00004				0.30	0.25	0.41	57								
	with integral grilles	PEL-N-234-01227-00004				0.30	0.25	0.41	57								
Vent Dual-Pane High Altitude Glazing - Wood Exterior																	
11/16"	Advanced Low-E IG	PEL-N-234-01153-00001	2.5	2.5	air	0.31	0.28	0.53	56								
	with grilles-between-the-glass	PEL-N-234-01154-00001				0.31	0.26	0.47	56								
	with integral grilles	PEL-N-234-01155-00001				0.32	0.26	0.47	56								
11/16"	Advanced Low-E IG	PEL-N-234-01157-00001	3	3	air	0.32	0.28	0.52	55								
	with grilles-between-the-glass	PEL-N-234-01158-00001				0.32	0.26	0.47	55								
	with integral grilles	PEL-N-234-01159-00001				0.33	0.26	0.47	55								
11/16"	SunDefense™ Low-E IG	PEL-N-234-01201-00001	2.5	2.5	air	0.31	0.21	0.49	56					S			
	with grilles-between-the-glass	PEL-N-234-01202-00001				0.31	0.19	0.44	56					S			
	with integral grilles	PEL-N-234-01203-00001				0.32	0.19	0.44	56					S			
11/16"	SunDefense™ Low-E IG	PEL-N-234-01205-00001	3	3	air	0.31	0.21	0.49	55					S			
	with grilles-between-the-glass	PEL-N-234-01206-00001				0.31	0.19	0.43	55					S			
	with integral grilles	PEL-N-234-01207-00001				0.32	0.19	0.43	55					S			
11/16"	SunDefense+ Low-E IG	PEL-N-234-01809-00001	2.5	2.5	air	0.26	0.21	0.48	45			SC		S			
	with grilles-between-the-glass	PEL-N-234-01810-00001				0.26	0.19	0.43	45			SC		S			
	with integral grilles	PEL-N-234-01811-00001				0.27	0.19	0.43	45			SC		S			
11/16"	SunDefense+ Low-E IG	PEL-N-234-01817-00001	3	3	air	0.27	0.21	0.47	43			SC		S			
	with grilles-between-the-glass	PEL-N-234-01818-00001				0.27	0.19	0.42	43			SC		S			
	with integral grilles	PEL-N-234-01819-00001				0.28	0.19	0.42	43			SC		S			
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01177-00001	2.5	2.5	air	0.27	0.28	0.52	44								
	with grilles-between-the-glass	PEL-N-234-01178-00001				0.27	0.25	0.46	44								
	with integral grilles	PEL-N-234-01179-00001				0.27	0.25	0.46	44								
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01181-00001	3	3	air	0.27	0.28	0.51	43								
	with grilles-between-the-glass	PEL-N-234-01182-00001				0.27	0.25	0.46	43								
	with integral grilles	PEL-N-234-01183-00001				0.28	0.25	0.46	43								
11/16"	NaturalSun Low-E IG	PEL-N-234-01129-00001	2.5	2.5	air	0.32	0.53	0.60	55								
	with grilles-between-the-glass	PEL-N-234-01130-00001				0.32	0.47	0.53	55								
	with integral grilles	PEL-N-234-01131-00001				0.33	0.47	0.53	55								
11/16"	NaturalSun Low-E IG	PEL-N-234-01133-00001	3	3	air	0.33	0.52	0.59	54								
	with grilles-between-the-glass	PEL-N-234-01134-00001				0.33	0.46	0.53	54								
	with integral grilles	PEL-N-234-01135-00001				0.33	0.46	0.53	54								
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01777-00001	2.5	2.5	air	0.27	0.48	0.59	44								
	with grilles-between-the-glass	PEL-N-234-01778-00001				0.27	0.43	0.52	44								
	with integral grilles	PEL-N-234-01779-00001				0.28	0.43	0.52	43								
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01785-00001	3	3	air	0.28	0.47	0.58	42								
	with grilles-between-the-glass	PEL-N-234-01786-00001				0.28	0.42	0.52	42								
	with integral grilles	PEL-N-234-01787-00001				0.28	0.42	0.52	42								

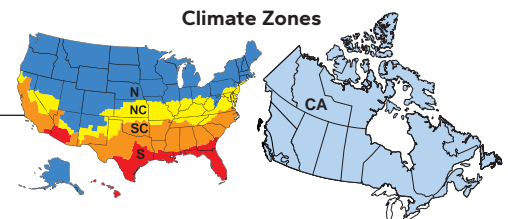
R-Value = 1/U-Factor
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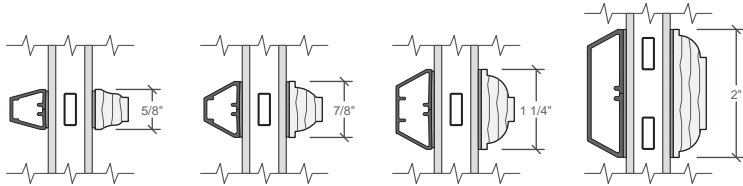




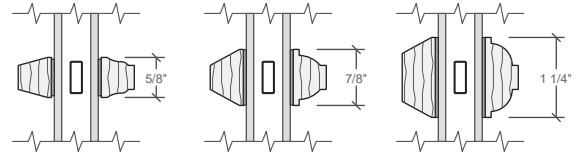
Grille Profiles

Traditional Style Collection - Integral Light Technology®

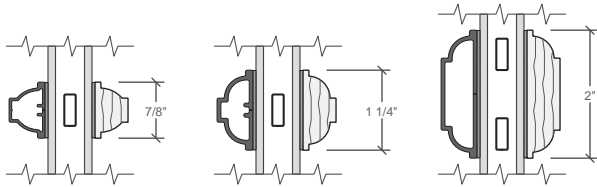
Putty Glaze and Ogee Grilles
Clad Exterior - Wood Interior



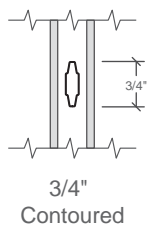
Putty Glaze and Ogee Grilles
Wood Exterior - Wood Interior



Ogee Grilles
Clad Exterior - Wood Interior



Grilles-Between-the-Glass



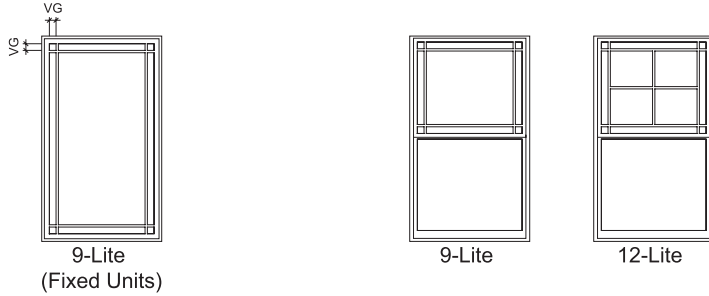
Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



Grille Patterns

Integral light technology® Grilles

Prairie Lite Patterns

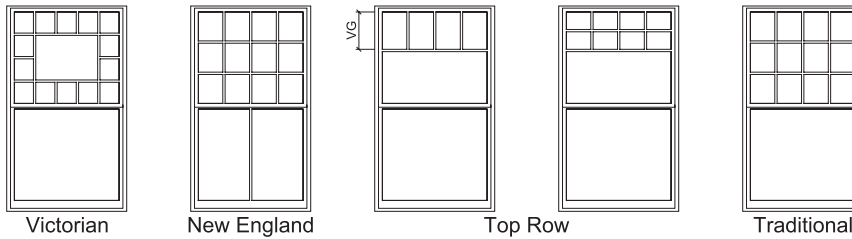


Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

Available in transoms ≥ 1'3" height and width.

Available in all standard and special sizes.

Other Available Patterns

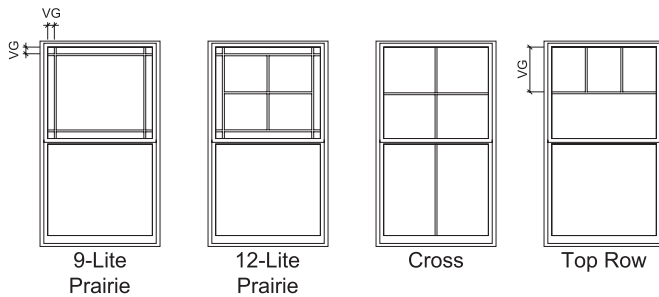


VG = Visible Glass

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

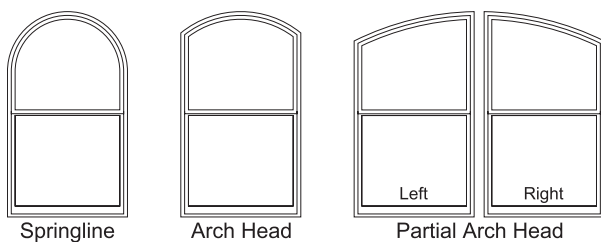
- Minimum DH frame height 35".

- 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.

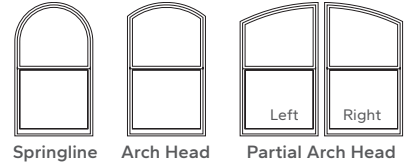




Pella® Reserve™ Traditional Hung Window

Size Tables - Equal Sash

Fixed Transoms									
		(552)	(654)	(756)	(857)	(959)	(1 060)	(1 162)	(1 238)
		(533)	(635)	(737)	(838)	(940)	(1 041)	(1 143)	(1 219)
Opening	Frame	1' 9 3/4"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
1' 9 3/4"	1' 2"	2114	2514	2914	3314	3714	4114	4514	4814
1' 5"	1' 2"	2117	2517	2917	3317	3717	4117	4517	4817
1' 5 3/4"	1' 2"	2125	2525	2925	3325	3725	4125	4525	4825
2' 1"	2' 11"	2135	2535	2935	3335	3735	4135	4535	4835
3' 5 3/4"	3' 5"	2141	2541	2941	3341	3741	4141	4541	4841
3' 11 3/4"	3' 11"	2147	2547	2947	3347	3747	4147	4547	4847
4' 5 3/4"	4' 5"	2153	2553	2953	3353	3753	4153	4553	4853
4' 9 3/4"	4' 9"	2157	2557	2957	3357	3757	4157	4557	4857
4' 11 3/4"	4' 11"	2159	2559	2959	3359	3759	4159	4559	4859
5' 5 3/4"	5' 5"	2165	2565	2965	3365	3765	4165	4565	4865
5' 11 3/4"	5' 11"	2171	2571	2971	3371	3771	4171	4571	4871
6' 5 3/4"	6' 5"	2177	2577	2977	3377	3777	4177	4577	4877
7' 0 3/4"	7' 0"	2184	2584	2984	3384	3784	4184	4584	4884



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

Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size 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
Brickmould				
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 impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolcreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Fixed

Fixed Units

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening	3' 5 ³ / ₄ "	3' 11 ³ / ₄ "	4' 5 ³ / ₄ "	4' 11 ³ / ₄ "
Frame	3' 5"	3' 11"	4' 5"	4' 11"
(908) (889)				
(1 060) (1 041)				
(1 213) (1 194)				
(1 365) (1 346)				
(1 467) (1 448)				
(1 518) (1 499)				
(1 670) (1 651)				
(1 822) (1 803)				

Opening Dimensions

Clad Exterior Units:

Dimensions shown in standard size 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 impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Grille patterns will align with companion hung window with equal sash split.

5-lite high grille patterns may be ordered in 5'5" fixed units to match cottage sash vent units.

Grilles are equally-divided on fixed units with odd-number lites high.



Pella® Reserve™ Traditional Hung Window

Size Tables - Cottage Sash

VENT UNITS

	(552) (533)	(654) (635)	(756) (737)	(857) (838)	(959) (940)	(1 060) (1 041)	(1 162) (1 143)	(1 238) (1 219)
Opening	1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"	3' 9 3/4"	4' 0 3/4"
Frame	1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
(1 060) (1 041)								
(1 213) (1 194)								
(1 365) (1 346)								
(1 467) (1 448)								
(1 518) (1 499)								
(1 670) (1 651)								
(1 822) (1 803)								
(1 822) (1 803)								

Egress Notes:
 Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Opening Dimensions

Clad Exterior Units:
 Dimensions shown in standard size 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 impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.
 Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.
 Cottage units have unequal sash split. Sash glass ratio is 40% upper sash to 60% Lower sash.
 Vent variable units have unequal sash split. Sash glass ratio is determined by checkrail heights. See unit sections for dimension requirements.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Equal Sash Sizes

Transoms

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(375) (356)	1' 2 3/4"	1' 2 3/4"	1' 2 3/4"	1' 2 3/4"	1' 2 3/4"	1' 2 3/4"	1' 2 3/4"
(451) (432)	1' 5 3/4"	1' 5 3/4"	1' 5 3/4"	1' 5 3/4"	1' 5 3/4"	1' 5 3/4"	1' 5 3/4"
(654) (635)	2' 1 3/4"	2' 1 3/4"	2' 1 3/4"	2' 1 3/4"	2' 1 3/4"	2' 1 3/4"	2' 1 3/4"
	23.5 x 14	27.5 x 14	29.5 x 14	31.5 x 14	35.5 x 14	39.5 x 14	41.5 x 14
	23.5 x 17	27.5 x 17	29.5 x 17	31.5 x 17	35.5 x 17	39.5 x 17	41.5 x 17
	23.5 x 25	27.5 x 25	29.5 x 25	31.5 x 25	35.5 x 25	39.5 x 25	41.5 x 25

Vent Units

(921) (902)	3' 0 1/4"	3' 0 1/4"	3' 0 1/4"	3' 0 1/4"	3' 0 1/4"	3' 0 1/4"	3' 0 1/4"
(972) (953)	3' 2 1/4"	3' 2 1/4"	3' 2 1/4"	3' 2 1/4"	3' 2 1/4"	3' 2 1/4"	3' 2 1/4"
(1 073) (1 054)	3' 6 1/4"	3' 6 1/4"	3' 6 1/4"	3' 6 1/4"	3' 6 1/4"	3' 6 1/4"	3' 6 1/4"
(1 175) (1 156)	3' 10 1/4"	3' 10 1/4"	3' 10 1/4"	3' 10 1/4"	3' 10 1/4"	3' 10 1/4"	3' 10 1/4"
(1 226) (1 206)	4' 0 1/4"	4' 0 1/4"	4' 0 1/4"	4' 0 1/4"	4' 0 1/4"	4' 0 1/4"	4' 0 1/4"
(1 327) (1 308)	4' 4 1/4"	4' 4 1/4"	4' 4 1/4"	4' 4 1/4"	4' 4 1/4"	4' 4 1/4"	4' 4 1/4"
(1 378) (1 359)	4' 6 1/4"	4' 6 1/4"	4' 6 1/4"	4' 6 1/4"	4' 6 1/4"	4' 6 1/4"	4' 6 1/4"
(1 473) (1 461)	4' 10 1/4"	4' 10 1/4"	4' 10 1/4"	4' 10 1/4"	4' 10 1/4"	4' 10 1/4"	4' 10 1/4"
	23.5 x 35.5	27.5 x 35.5	29.5 x 35.5	31.5 x 35.5	35.5 x 35.5	39.5 x 35.5	41.5 x 35.5
	23.5 x 37.5	27.5 x 37.5	29.5 x 37.5	31.5 x 37.5	35.5 x 37.5	39.5 x 37.5	41.5 x 37.5
	23.5 x 41.5	27.5 x 41.5	29.5 x 41.5	31.5 x 41.5	35.5 x 41.5	39.5 x 41.5	41.5 x 41.5
	23.5 x 45.5	27.5 x 45.5	29.5 x 45.5	31.5 x 45.5	35.5 x 45.5	39.5 x 45.5	41.5 x 45.5
	23.5 x 47.5	27.5 x 47.5	29.5 x 47.5	31.5 x 47.5	35.5 x 47.5	39.5 x 47.5	41.5 x 47.5
	23.5 x 51.5	27.5 x 51.5	29.5 x 51.5	31.5 x 51.5	35.5 x 51.5	39.5 x 51.5	41.5 x 51.5
	23.5 x 53.5	27.5 x 53.5	29.5 x 53.5	31.5 x 53.5	35.5 x 53.5	39.5 x 53.5	41.5 x 53.5
	23.5 x 57.5	27.5 x 57.5	29.5 x 57.5	31.5 x 57.5	35.5 x 57.5	39.5 x 57.5	41.5 x 57.5

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

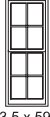
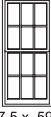












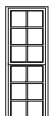
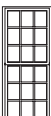





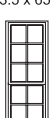
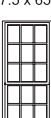
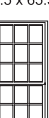




Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Sizes

Vent Units

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening	2' 0 1/4"	2' 4 1/4"	2' 6"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(1 530) (1 511)							
	23.5 x 59.5	27.5 x 59.5	29.5 x 59.5	31.5 x 59.5	35.5 x 59.5 E ₁	39.5 x 59.5 E	41.5 x 59.5 E
(1 581) (1 562)							
	23.5 x 61.5	27.5 x 61.5	29.5 x 61.5	31.5 x 61.5 E ₁	35.5 x 61.5 E	39.5 x 61.5 E	41.5 x 61.5 E
(1 683) (1 664)							
	23.5 x 65.5	27.5 x 65.5	29.5 x 65.5	31.5 x 65.5 E ₁	35.5 x 65.5 E	39.5 x 65.5 E	41.5 x 65.5 E
(1 835) (1 816)							
	23.5 x 71.5	27.5 x 71.5 E ₁	29.5 x 71.5 E ₁	31.5 x 71.5 E	35.5 x 71.5 E	39.5 x 71.5 E	41.5 x 71.5 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolcreens meet egress requirements.

Not to scale.





























































Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Cottage Sash Sizes

Cottage Vent Units

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)								
Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"								
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"								
(1 073) (1 054)	3' 6 1/4"	3' 5 1/2"							23.5 x 41.5	27.5 x 41.5	29.5 x 41.5	31.5 x 41.5	35.5 x 41.5	39.5 x 41.5	41.5 x 41.5
(1 175) (1 156)	3' 10 1/4"	3' 9 1/2"							23.5 x 45.5	27.5 x 45.5	29.5 x 45.5	31.5 x 45.5	35.5 x 45.5	39.5 x 45.5	41.5 x 45.5
(1 226) (1 206)	4' 0 1/4"	3' 11 1/2"							23.5 x 47.5	27.5 x 47.5	29.5 x 47.5	31.5 x 47.5	35.5 x 47.5	39.5 x 47.5	41.5 x 47.5
(1 327) (1 308)	4' 4 1/4"	4' 3 1/2"							23.5 x 51.5	27.5 x 51.5	29.5 x 51.5	31.5 x 51.5	35.5 x 51.5	39.5 x 51.5	41.5 x 51.5
(1 378) (1 359)	4' 6 1/4"	4' 5 1/2"							23.5 x 53.5	27.5 x 53.5	29.5 x 53.5	31.5 x 53.5	35.5 x 53.5	39.5 x 53.5	41.5 x 53.5
(1 473) (1 461)	4' 10 1/4"	4' 9 1/2"							23.5 x 57.5	27.5 x 57.5	29.5 x 57.5	31.5 x 57.5	35.5 x 57.5	39.5 x 57.5	41.5 x 57.5
(1 530) (1 511)	5' 0 1/4"	4' 11 1/2"							23.5 x 59.5	27.5 x 59.5	29.5 x 59.5	31.5 x 59.5	35.5 x 59.5	39.5 x 59.5	41.5 x 59.5
(1 581) (1 561.5)	5' 2 1/4"	5' 1 1/2"							23.5 x 61.5	27.5 x 61.5	29.5 x 61.5	31.5 x 61.5	35.5 x 61.5	39.5 x 61.5	41.5 x 61.5
(1 683) (1 664)	5' 6 1/4"	5' 5 1/2"							23.5 x 65.5	27.5 x 65.5	29.5 x 65.5	31.5 x 65.5	35.5 x 65.5	39.5 x 65.5	41.5 x 65.5
(1 835) (1 816)	6' 0 1/4"	5' 11 1/2"							23.5 x 71.5	27.5 x 71.5	29.5 x 71.5	31.5 x 71.5	35.5 x 71.5	39.5 x 71.5	41.5 x 71.5

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Fixed Sizes

Fixed Units	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)	
Opening	3' 5 ³ / ₄ "	3' 11 ³ / ₄ "	4' 5 ³ / ₄ "	4' 11 ³ / ₄ "	3' 5 ³ / ₄ "	3' 11 ³ / ₄ "	4' 5 ³ / ₄ "	4' 11 ³ / ₄ "	
Frame	3' 5"	3' 11"	4' 5"	4' 11"	3' 5"	3' 11"	4' 5"	4' 11"	
(921) (902)	3' 0 ¹ / ₄ "	2' 11 ¹ / ₂ "	41 x 35.5	47 x 35.5	53 x 35.5	59 x 35.5	(1 530) (1 511)	5' 0 ¹ / ₄ "	4' 11 ¹ / ₂ "
(972) (953)	3' 2 ¹ / ₄ "	3' 1 ¹ / ₂ "	41 x 37.5	47 x 37.5	53 x 37.5	59 x 37.5	(1 581) (1 562)	5' 2 ¹ / ₄ "	5' 1 ¹ / ₂ "
(1 073) (1 054)	3' 6 ¹ / ₄ "	3' 5 ¹ / ₂ "	41 x 41.5	47 x 41.5	53 x 41.5	59 x 41.5	(1 683) (1 664)	5' 6 ¹ / ₄ "	5' 5 ¹ / ₂ "
(1 175) (1 156)	3' 10 ¹ / ₄ "	3' 9 ¹ / ₂ "	41 x 45.5	47 x 45.5	53 x 45.5	59 x 45.5	(1 835) (1 816)	6' 0 ¹ / ₄ "	5' 11 ¹ / ₂ "
(1 226) (1 206)	4' 0 ¹ / ₄ "	3' 11 ¹ / ₂ "	41 x 47.5	47 x 47.5	53 x 47.5	59 x 47.5			
(1 327) (1 308)	4' 4 ¹ / ₄ "	4' 3 ¹ / ₂ "	41 x 51.5	47 x 51.5	53 x 51.5	59 x 51.5			
(1 378) (1 359)	4' 6 ¹ / ₄ "	4' 5 ¹ / ₂ "	41 x 53.5	47 x 53.5	53 x 53.5	59 x 53.5			
(1 473) (1 461)	4' 10 ¹ / ₄ "	4' 9 ¹ / ₂ "	41 x 57.5	47 x 57.5	53 x 57.5	59 x 57.5			

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Special Sizes and Dimensions

Special Size Frame Dimensions*

Sash configuration	Vent-Equal	Cottage	Fixed
Sash Glass Ratio Top % : Bottom %	50 : 50	40 : 60	NA
Shortest Unit Frame Size	24-3/8" (619)	40-1/4" (1022)	17" (432)
Tallest Unit Frame Size	96" (2 438)	81" (2 057)	71" (1803)
Unit Frame Width Range	14" to 48" (356 to 1219)	14" to 48" (356 to 1219)	17" to 59" (432 to 1499)

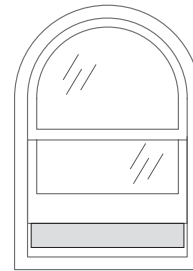
Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size tables are rough opening dimensions.

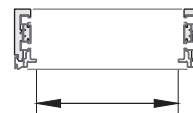
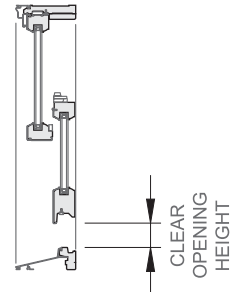
Wood Exterior Units:
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

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"

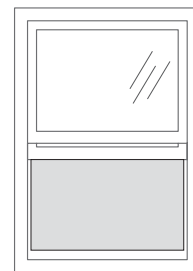
For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.



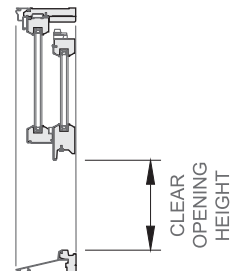
Shaded portion shows vent area.



CLEAR OPENING WIDTH



Shaded portion shows vent area.



Equal Sash Rectangular Only

Visible Glass	Vent Units	Fixed and Transom Units
	Width = Frame - 5.647"	Width = Frame - 5.75"
Height = (Frame - 8.681") ÷ 2	Height = Frame - 5.75"	
Actual Glass	Width = Frame - 4.375"	Width = Frame - 4.375"
	Height = (Frame - 5.983") ÷ 2	Height = Frame - 4.375"
Clear Opening*	COW = Frame Width - 3.4375"	—
	COH = (Frame Height ÷ 2) - 4.4375"	—
Vent Area Ft ²	(COW x COH) ÷ 144	—

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

* Some units with custom glazing may have limited travel. Integrated Rolscreen® is only available on sizes greater than or equal to 34" tall and 21" wide and less than or equal to 84" tall and 48" wide.

See your local Pella sales representative for specific size information.



Pella® Reserve™ Traditional Hung Window

Design Data

Vent Equal Sash for Single- and Double-Hung									
Unit	Egress	Clear Opening (Inches)		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
2135		17-5/16	13-1/16	1.6	2.8	2.5	3	CW50	CW45
2141		17-5/16	16-1/16	1.9	3.4	2.5	3	CW50	CW45
2147		17-5/16	19-1/16	2.3	4.1	2.5	3	CW50	CW45
2153		17-5/16	22-1/16	2.7	4.7	2.5	3	CW50	CW45
2157		17-5/16	24-1/16	2.9	5.2	2.5	3	CW50	CW45
2159		17-5/16	25-1/16	3.0	5.4	2.5	3	CW50	CW45
2165		17-5/16	28-1/16	3.4	6.0	2.5	3	CW50	CW45
2171		17-5/16	31-1/16	3.7	6.6	2.5	3	CW50	CW45
2177		17-5/16	34-1/16	4.1	7.3	2.5	3	CW50	CW45
2184		17-5/16	37-9/16	4.5	8.0	2.5	3	CW40	CW40
2535		21-5/16	13-1/16	1.9	3.5	2.5	3	CW50	CW45
2541		21-5/16	16-1/16	2.4	4.3	2.5	3	CW50	CW45
2547		21-5/16	19-1/16	2.8	5.1	2.5	3	CW50	CW45
2553		21-5/16	22-1/16	3.3	6.0	2.5	3	CW50	CW45
2557		21-5/16	24-1/16	3.6	6.5	2.5	3	CW50	CW45
2559		21-5/16	25-1/16	3.7	6.8	2.5	3	CW50	CW45
2565		21-5/16	28-1/16	4.2	7.6	2.5	3	CW50	CW45
2571		21-5/16	31-1/16	4.6	8.4	2.5	3	CW50	CW45
2577	E1	21-5/16	34-1/16	5.0	9.2	2.5	3	CW50	CW45
2584	E1	21-5/16	37-9/16	5.6	10.1	2.5	3	CW40	CW40
2935		25-5/16	13-1/16	2.3	4.3	2.5	3	CW50	CW45
2941		25-5/16	16-1/16	2.8	5.2	2.5	3	CW50	CW45
2947		25-5/16	19-1/16	3.4	6.2	2.5	3	CW50	CW45
2953		25-5/16	22-1/16	3.9	7.2	2.5	3	CW50	CW45
2957		25-5/16	24-1/16	4.2	7.8	2.5	3	CW50	CW45
2959		25-5/16	25-1/16	4.4	8.2	2.5	3	CW50	CW45
2965		25-5/16	28-1/16	4.9	9.1	2.5	3	CW50	CW45
2971	E1	25-5/16	31-1/16	5.5	10.1	2.5	3	CW50	CW45
2977	E	25-5/16	34-1/16	6.0	11.1	2.5	3	CW50	CW45
2984	E	25-5/16	37-9/16	6.6	12.2	2.5	3	CW40	CW40
3335		29-5/16	13-1/16	2.7	5.0	2.5	3	CW50	CW45
3341		29-5/16	16-1/16	3.3	6.1	2.5	3	CW50	CW45
3347		29-5/16	19-1/16	3.9	7.3	2.5	3	CW50	CW45
3353		29-5/16	22-1/16	4.5	8.4	2.5	3	CW50	CW45
3357		29-5/16	24-1/16	4.9	9.2	2.5	3	CW50	CW45
3359	E1	29-5/16	25-1/16	5.1	9.6	2.5	3	CW50	CW45
3365	E	29-5/16	28-1/16	5.7	10.7	2.5	3	CW50	CW45
3371	E	29-5/16	31-1/16	6.3	11.8	2.5	3	CW50	CW45
3377	E	29-5/16	34-1/16	6.9	13.0	2.5	3	CW50	CW45
3384	E	29-5/16	37-9/16	7.7	14.3	2.5	3	CW40	CW40

Continued on next page

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum design pressure when glazed with appropriate glass thickness.

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



Pella® Reserve™ Traditional Hung Window

Design Data

Vent Equal Sash for Single- and Double-Hung									
Unit	Egress	Clear Opening (Inches)		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ⁽¹⁾	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
3735		33-5/16	13-1/16	3.0	5.7	2.5	3	CW50	CW45
3741		33-5/16	16-1/16	3.7	7.0	2.5	3	CW50	CW45
3747		33-5/16	19-1/16	4.4	8.3	2.5	3	CW50	CW45
3753		33-5/16	22-1/16	5.1	9.6	2.5	3	CW50	CW45
3757	E ₁	33-5/16	24-1/16	5.6	10.5	2.5	3	CW50	CW45
3759	E	33-5/16	25-1/16	5.8	11.0	2.5	3	CW50	CW45
3765	E	33-5/16	28-1/16	6.5	12.3	2.5	3	CW50	CW45
3771	E	33-5/16	31-1/16	7.2	13.6	2.5	3	CW50	CW45
3777	E	33-5/16	34-1/16	7.9	14.9	2.5	3	CW50	CW45
3784	E	33-5/16	37-9/16	8.7	16.4	2.5	3	CW40	CW40
4135		37-5/16	13-1/16	3.4	6.5	2.5	3	CW50	CW45
4141		37-5/16	16-1/16	4.2	7.9	2.5	3	CW50	CW45
4147		37-5/16	19-1/16	4.9	9.4	2.5	3	CW50	CW45
4153		37-5/16	22-1/16	5.7	10.9	2.5	3	CW50	CW45
4157	E	37-5/16	24-1/16	6.2	11.9	2.5	3	CW50	CW45
4159	E	37-5/16	25-1/16	6.5	12.4	2.5	3	CW50	CW45
4165	E	37-5/16	28-1/16	7.3	13.8	2.5	3	CW50	CW45
4171	E	37-5/16	31-1/16	8.1	15.3	2.5	3	CW50	CW45
4177	E	37-5/16	34-1/16	8.8	16.8	2.5	3	CW45	CW45
4184	E	37-5/16	37-9/16	9.7	18.5	2.5	3	CW40	CW40
4535		41-5/16	13-1/16	3.7	7.2	2.5	3	CW50	CW45
4541		41-5/16	16-1/16	4.6	8.8	2.5	3	CW50	CW45
4547		41-5/16	19-1/16	5.5	10.5	2.5	3	CW50	CW45
4553		41-5/16	22-1/16	6.3	12.1	2.5	3	CW50	CW45
4557	E	41-5/16	24-1/16	6.9	13.2	2.5	3	CW50	CW45
4559	E	41-5/16	25-1/16	7.2	13.7	2.5	3	CW50	CW45
4565	E	41-5/16	28-1/16	8.1	15.4	2.5	3	CW50	CW45
4571	E	41-5/16	31-1/16	8.9	17.0	2.5	3	CW45	CW45
4577	E	41-5/16	34-1/16	9.8	18.7	2.5	3	CW45	CW45
4584	E	41-5/16	37-9/16	10.8	20.6	3	3	CW40	CW40
4835		44-5/16	13-1/16	4.0	7.7	2.5	3	CW50	CW45
4841		44-5/16	16-1/16	4.9	9.5	2.5	3	CW50	CW45
4847		44-5/16	19-1/16	5.9	11.3	2.5	3	CW50	CW45
4853		44-5/16	22-1/16	6.8	13.0	2.5	3	CW50	CW45
4857	E	44-5/16	24-1/16	7.4	14.2	2.5	3	CW50	CW45
4859	E	44-5/16	25-1/16	7.7	14.8	2.5	3	CW50	CW45
4865	E	44-5/16	28-1/16	8.6	16.6	2.5	3	CW45	CW45
4871	E	44-5/16	31-1/16	9.6	18.3	2.5	3	CW45	CW45
4877	E	44-5/16	34-1/16	10.5	20.1	3	3	CW45	CW45
4884	E	44-5/16	37-9/16	11.6	22.2	3	3	CW40	CW40

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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

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



Pella® Reserve™ Traditional Hung Window

Design Data

Fixed				
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
		Annealed	Tempered	
4135	7.2	2.5	3	CW50
4141	8.6	2.5	3	CW50
4147	10.1	3	3	CW50
4153	11.6	3	3	CW50
4157	12.5	3	3	CW50
4165	14.5	3	3	CW50
4171	16.0	3	3	CW45/CW50
4735	8.4	2.5	3	CW50
4741	10.1	3	3	CW50
4747	11.8	3	3	CW50
4753	13.5	3	3	CW50
4757	14.7	3	3	CW50
4759	15.3	3	3	CW50
4765	17.0	3	3	CW45/CW50
4771	18.7	4	4	CW50
5335	9.6	2.5	3	CW45/CW50
5341	11.6	3	3	CW50
5347	13.5	3	3	CW50
5353	15.5	3	4	CW45/CW50
5357	16.8	3	4	CW45/CW50
5359	17.5	3	4	CW40/CW50
5365	19.4	4	4	CW50
5371	21.4	4	4	CW50
5935	10.8	3	3	CW50
5941	13.0	3	3	CW50
5953	17.5	3	4	CW40/CW50
5957	19.0	4	4	CW50
5959	19.7	4	4	CW50
5965	21.9	4	4	CW50
5971	24.1	4	4	CW45/CW50

Transoms				
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
		Annealed	Tempered	
2114	0.9	2.5	3	CW50
2514	1.1	2.5	3	CW50
2914	1.3	2.5	3	CW50
3314	1.6	2.5	3	CW50
3714	1.8	2.5	3	CW50
4114	2.0	2.5	3	CW50
4514	2.2	2.5	3	CW50
4814	2.4	2.5	3	CW50
2117	1.2	2.5	3	CW50
2517	1.5	2.5	3	CW50
2917	1.8	2.5	3	CW50
3317	2.1	2.5	3	CW50
3717	2.4	2.5	3	CW50
4117	2.8	2.5	3	CW50
4517	3.1	2.5	3	CW50
4817	3.3	2.5	3	CW50
2125	2.0	2.5	3	CW50
2525	2.6	2.5	3	CW50
2925	3.1	2.5	3	CW50
3325	3.6	2.5	3	CW50
3725	4.2	2.5	3	CW50
4125	4.7	2.5	3	CW50
4525	5.2	2.5	3	CW50
4825	5.6	2.5	3	CW50

(1) Maximum design pressure when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.



Pella® Reserve™ Traditional Hung Window

Design Data

Cottage Sash for Single- and Double-Hung									
Unit	Egress	Clear Opening (Inches)		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height			Annealed	Tempered	Clad	Wood
VG2141		17-5/16	12-11/16	1.5	3.4	2.5	3	CW50	CW45
VG2147		17-5/16	15-1/16	1.8	4.1	2.5	3	CW50	CW45
VG2153		17-5/16	17-7/16	2.1	4.7	2.5	3	CW50	CW45
VG2157		17-5/16	19-1/16	2.3	5.2	2.5	3	CW50	CW45
VG2159		17-5/16	19-7/8	2.4	5.4	2.5	3	CW50	CW45
VG2165		17-5/16	22-1/4	2.7	6.0	2.5	3	CW50	CW45
VG2171		17-5/16	24-11/16	3.0	6.6	2.5	3	CW30	CW30
VG2541		21-5/16	12-11/16	1.9	4.3	2.5	3	CW50	CW45
VG2547		21-5/16	15-1/16	2.2	5.1	2.5	3	CW50	CW45
VG2553		21-5/16	17-7/16	2.6	6.0	2.5	3	CW50	CW45
VG2557		21-5/16	19-1/16	2.8	6.5	2.5	3	CW50	CW45
VG2559		21-5/16	19-7/8	2.9	6.8	2.5	3	CW50	CW45
VG2565		21-5/16	22-1/4	3.3	7.6	2.5	3	CW50	CW45
VG2571		21-5/16	24-11/16	3.7	8.4	2.5	3	CW30	CW30
VG2941		25-5/16	12-11/16	2.2	5.2	2.5	3	CW50	CW45
VG2947		25-5/16	15-1/16	2.7	6.2	2.5	3	CW50	CW45
VG2953		25-5/16	17-7/16	3.1	7.2	2.5	3	CW50	CW45
VG2957		25-5/16	19-1/16	3.4	7.8	2.5	3	CW50	CW45
VG2959		25-5/16	19-7/8	3.5	8.2	2.5	3	CW50	CW45
VG2965		25-5/16	22-1/4	3.9	9.1	2.5	3	CW50	CW45
VG2971		25-5/16	24-11/16	4.3	10.1	2.5	3	CW30	CW30
VG3341		29-5/16	12-11/16	2.6	6.1	2.5	3	CW50	CW45
VG3347		29-5/16	15-1/16	3.1	7.3	2.5	3	CW50	CW45
VG3353		29-5/16	17-7/16	3.6	8.4	2.5	3	CW50	CW45
VG3357		29-5/16	19-1/16	3.9	9.2	2.5	3	CW50	CW45
VG3359		29-5/16	19-7/8	4.1	9.6	2.5	3	CW50	CW45
VG3365		29-5/16	22-1/4	4.5	10.7	2.5	3	CW50	CW45
VG3371	E1	29-5/16	24-11/16	5.0	11.8	2.5	3	CW30	CW30

Continued on next page

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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

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



Pella® Reserve™ Traditional Hung Window

Design Data

Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height			Annealed	Tempered	Clad	Wood
VG3741		33-5/16	12-11/16	2.9	7.0	2.5	3	CW50	CW45
VG3747		33-5/16	15-1/16	3.5	8.3	2.5	3	CW50	CW45
VG3753		33-5/16	17-7/16	4.0	9.6	2.5	3	CW50	CW45
VG3757		33-5/16	19-1/16	4.4	10.5	2.5	3	CW50	CW45
VG3759		33-5/16	19-7/8	4.6	11.0	2.5	3	CW50	CW45
VG3765		33-5/16	22-1/4	5.2	12.3	2.5	3	CW50	CW45
VG3771	E	33-5/16	24-11/16	5.7	13.6	2.5	3	CW30	CW30
VG4141		37-5/16	12-11/16	3.3	7.9	2.5	3	CW50	CW45
VG4147		37-5/16	15-1/16	3.9	9.4	2.5	3	CW50	CW45
VG4153		37-5/16	17-7/16	4.5	10.9	2.5	3	CW50	CW45
VG4157		37-5/16	19-1/16	4.9	11.9	2.5	3	CW50	CW45
VG4159		37-5/16	19-7/8	5.2	12.4	2.5	3	CW50	CW45
VG4165		37-5/16	22-1/4	5.8	13.8	2.5	3	CW45	CW45
VG4171	E	37-5/16	24-11/16	6.4	15.3	2.5	3	CW30	CW30
VG4541		41-5/16	12-11/16	3.6	8.8	2.5	3	CW50	CW45
VG4547		41-5/16	15-1/16	4.3	10.5	2.5	3	CW50	CW45
VG4553		41-5/16	17-7/16	5.0	12.1	2.5	3	CW50	CW45
VG4557		41-5/16	19-1/16	5.5	13.2	2.5	3	CW45	CW45
VG4559		41-5/16	19-7/8	5.7	13.8	2.5	3	CW45	CW45
VG4565		41-5/16	22-1/4	6.4	15.4	2.5	3	CW45	CW45
VG4571	E	41-5/16	24-11/16	7.1	17.0	3	3	CW30	CW30
VG4841		44-5/16	12-11/16	3.9	9.5	2.5	3	CW50	CW45
VG4847		44-5/16	15-1/16	4.6	11.3	2.5	3	CW50	CW45
VG4853		44-5/16	17-7/16	5.4	13.0	2.5	3	CW45	CW45
VG4857		44-5/16	19-1/16	5.9	14.2	2.5	3	CW45	CW45
VG4859		44-5/16	19-7/8	6.1	14.8	2.5	3	CW45	CW45
VG4865		44-5/16	22-1/4	6.9	16.6	3	3	CW45	CW45
VG4871	E	44-5/16	24-11/16	7.6	18.3	3	3	CW30	CW30

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

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

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



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

Replacement Equal Sash for Single- and Double-Hung									
Unit	Egress	Clear Opening		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
23.5 x 35.5		19-13/16	13-5/16	1.8	3.3	2.5	3	CW50	CW45
23.5 x 37.5		19-13/16	14-5/16	2.0	3.6	2.5	3	CW50	CW45
23.5 x 41.5		19-13/16	16-5/16	2.2	4.1	2.5	3	CW50	CW45
23.5 x 45.5		19-13/16	18-5/16	2.5	4.6	2.5	3	CW50	CW45
23.5 x 47.5		19-13/16	19-5/16	2.7	4.8	2.5	3	CW50	CW45
23.5 x 51.5		19-13/16	21-5/16	2.9	5.3	2.5	3	CW50	CW45
23.5 x 53.5		19-13/16	22-5/16	3.1	5.6	2.5	3	CW50	CW45
23.5 x 57.5		19-13/16	24-5/16	3.3	6.1	2.5	3	CW50	CW45
23.5 x 59.5		19-13/16	25-5/16	3.5	6.3	2.5	3	CW50	CW45
23.5 x 61.5		19-13/16	26-5/16	3.6	6.5	2.5	3	CW50	CW45
23.5 x 65.5		19-13/16	28-5/16	3.9	7.0	2.5	3	CW50	CW45
23.5 x 71.5		19-13/16	31-5/16	4.3	7.8	2.5	3	CW50	CW45
27.5 x 35.5		23-13/16	13-5/16	2.2	4.1	2.5	3	CW50	CW45
27.5 x 37.5		23-13/16	14-5/16	2.4	4.4	2.5	3	CW50	CW45
27.5 x 41.5		23-13/16	16-5/16	2.7	5.0	2.5	3	CW50	CW45
27.5 x 45.5		23-13/16	18-5/16	3.0	5.6	2.5	3	CW50	CW45
27.5 x 47.5		23-13/16	19-5/16	3.2	5.9	2.5	3	CW50	CW45
27.5 x 51.5		23-13/16	21-5/16	3.5	6.5	2.5	3	CW50	CW45
27.5 x 53.5		23-13/16	22-5/16	3.7	6.8	2.5	3	CW50	CW45
27.5 x 57.5		23-13/16	24-5/16	4.0	7.4	2.5	3	CW50	CW45
27.5 x 59.5		23-13/16	25-5/16	4.2	7.7	2.5	3	CW50	CW45
27.5 x 61.5		23-13/16	26-5/16	4.4	8.0	2.5	3	CW50	CW45
27.5 x 65.5		23-13/16	28-5/16	4.7	8.6	2.5	3	CW50	CW45
27.5 x 71.5	E1	23-13/16	31-5/16	5.2	9.5	2.5	3	CW50	CW45
29.5 x 35.5		25-13/16	13-5/16	2.4	4.4	2.5	3	CW50	CW45
29.5 x 37.5		25-13/16	14-5/16	2.6	4.8	2.5	3	CW50	CW45
29.5 x 41.5		25-13/16	16-5/16	2.9	5.4	2.5	3	CW50	CW45
29.5 x 45.5		25-13/16	18-5/16	3.3	6.1	2.5	3	CW50	CW45
29.5 x 47.5		25-13/16	19-5/16	3.5	6.4	2.5	3	CW50	CW45
29.5 x 51.5		25-13/16	21-5/16	3.8	7.1	2.5	3	CW50	CW45
29.5 x 53.5		25-13/16	22-5/16	4.0	7.4	2.5	3	CW50	CW45
29.5 x 57.5		25-13/16	24-5/16	4.4	8.1	2.5	3	CW50	CW45
29.5 x 59.5		25-13/16	25-5/16	4.5	8.4	2.5	3	CW50	CW45
29.5 x 61.5		25-13/16	26-5/16	4.7	8.7	2.5	3	CW50	CW45
29.5 x 65.5	E1	25-13/16	28-5/16	5.1	9.4	2.5	3	CW50	CW45
29.5 x 71.5	E1	25-13/16	31-5/16	5.6	10.4	2.5	3	CW50	CW45

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Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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

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



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

Replacement Equal Sash for Single- and Double-Hung									
Unit	Egress	Clear Opening		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
31.5x35.5		27-13/16	13-5/16	2.6	4.8	2.5	3	CW50	CW45
31.5x37.5		27-13/16	14-5/16	2.8	5.2	2.5	3	CW50	CW45
31.5x41.5		27-13/16	16-5/16	3.2	5.9	2.5	3	CW50	CW45
31.5x45.5		27-13/16	18-5/16	3.5	6.6	2.5	3	CW50	CW45
31.5x47.5		27-13/16	19-5/16	3.7	7.0	2.5	3	CW50	CW45
31.5x51.5		27-13/16	21-5/16	4.1	7.7	2.5	3	CW50	CW45
31.5x53.5		27-13/16	22-5/16	4.3	8.0	2.5	3	CW50	CW45
31.5x57.5		27-13/16	24-5/16	4.7	8.8	2.5	3	CW50	CW45
31.5x59.5		27-13/16	25-5/16	4.9	9.1	2.5	3	CW50	CW45
31.5x61.5	E ₁	27-13/16	26-5/16	5.1	9.5	2.5	3	CW50	CW45
31.5x65.5	E ₁	27-13/16	28-5/16	5.5	10.2	2.5	3	CW50	CW45
31.5x71.5	E	27-13/16	31-5/16	6.0	11.3	2.5	3	CW50	CW45
35.5x35.5		31-13/16	13-5/16	2.9	5.6	2.5	3	CW50	CW45
35.5x37.5		31-13/16	14-5/16	3.2	6.0	2.5	3	CW50	CW45
35.5x41.5		31-13/16	16-5/16	3.6	6.8	2.5	3	CW50	CW45
35.5x45.5		31-13/16	18-5/16	4.0	7.6	2.5	3	CW50	CW45
35.5x47.5		31-13/16	19-5/16	4.3	8.0	2.5	3	CW50	CW45
35.5x51.5		31-13/16	21-5/16	4.7	8.9	2.5	3	CW50	CW45
35.5x53.5		31-13/16	22-5/16	4.9	9.3	2.5	3	CW50	CW45
35.5x57.5	E ₁	31-13/16	24-5/16	5.4	10.1	2.5	3	CW50	CW45
35.5x59.5	E ₁	31-13/16	25-5/16	5.6	10.5	2.5	3	CW50	CW45
35.5x61.5	E	31-13/16	26-5/16	5.8	10.9	2.5	3	CW50	CW45
35.5x65.5	E	31-13/16	28-5/16	6.3	11.8	2.5	3	CW50	CW45
35.5x71.5	E	31-13/16	31-5/16	6.9	13.0	2.5	3	CW50	CW45
39.5x35.5		35-13/16	13-5/16	3.3	6.3	2.5	3	CW50	CW45
39.5x37.5		35-13/16	14-5/16	3.6	6.8	2.5	3	CW50	CW45
39.5x41.5		35-13/16	16-5/16	4.1	7.7	2.5	3	CW50	CW45
39.5x45.5		35-13/16	18-5/16	4.6	8.7	2.5	3	CW50	CW45
39.5x47.5		35-13/16	19-5/16	4.8	9.1	2.5	3	CW50	CW45
39.5x51.5		35-13/16	21-5/16	5.3	10.1	2.5	3	CW50	CW45
39.5x53.5		35-13/16	22-5/16	5.5	10.5	2.5	3	CW50	CW45
39.5x57.5	E	35-13/16	24-5/16	6.0	11.5	2.5	3	CW50	CW45
39.5x59.5	E	35-13/16	25-5/16	6.3	11.9	2.5	3	CW50	CW45
39.5x61.5	E	35-13/16	26-5/16	6.5	12.4	2.5	3	CW50	CW45
39.5x65.5	E	35-13/16	28-5/16	7.0	13.4	2.5	3	CW50	CW45
39.5x71.5	E	35-13/16	31-5/16	7.8	14.8	2.5	3	CW45	CW45
41.5x35.5		37-13/16	13-5/16	3.5	6.7	2.5	3	CW50	CW45
41.5x37.5		37-13/16	14-5/16	3.8	7.2	2.5	3	CW50	CW45
41.5x41.5		37-13/16	16-5/16	4.3	8.2	2.5	3	CW50	CW45
41.5x45.5		37-13/16	18-5/16	4.8	9.2	2.5	3	CW50	CW45
41.5x47.5		37-13/16	19-5/16	5.1	9.7	2.5	3	CW50	CW45
41.5x51.5		37-13/16	21-5/16	5.6	10.7	2.5	3	CW50	CW45
41.5x53.5		37-13/16	22-5/16	5.9	11.2	2.5	3	CW50	CW45
41.5x57.5	E	37-13/16	24-5/16	6.4	12.2	2.5	3	CW50	CW45
41.5x59.5	E	37-13/16	25-5/16	6.6	12.7	2.5	3	CW50	CW45
41.5x61.5	E	37-13/16	26-5/16	6.9	13.1	2.5	3	CW50	CW45
41.5x65.5	E	37-13/16	28-5/16	7.4	14.1	2.5	3	CW45	CW45
41.5x71.5	E	37-13/16	31-5/16	8.2	15.6	2.5	3	CW45	CW45

Egress Notes:
 Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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

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



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

Replacement Fixed				
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
		Annealed	Tempered	
41x35.5	7.3	2.5	3	CW50
41x37.5	7.8	2.5	3	CW50
41x41.5	8.8	2.5	3	CW50
41x45.5	9.7	2.5	3	CW45/CW50
41x47.5	10.2	3.0	3	CW50
41x51.5	11.2	3.0	3	CW50
41x53.5	11.7	3.0	3	CW50
41x57.5	12.7	3.0	3	CW50
41x59.5	13.2	3.0	3	CW50
41x61.5	13.6	3.0	3	CW50
41x65.5	14.6	3.0	3	CW50
41x71.5	16.1	3.0	3	CW45/CW50
47x35.5	8.5	2.5	3	CW50
47x37.5	9.1	2.5	3	CW50
47x41.5	10.2	3.0	3	CW50
47x45.5	11.4	3.0	3	CW50
47x47.5	12.0	3.0	3	CW50
47x51.5	13.1	3.0	3	CW50
47x53.5	13.7	3.0	3	CW50
47x57.5	14.8	3.0	3	CW50
47x59.5	15.4	3.0	3	CW45/CW50
47x61.5	16.0	3.0	3	CW45/CW50
47x65.5	17.1	3.0	3	CW45/CW50
47x71.5	18.8	4.0	4	CW50
53x35.5	9.8	2.5	3	CW45/CW50
53x37.5	10.4	3.0	3	CW50
53x41.5	11.7	3.0	3	CW50
53x45.5	13.0	3.0	3	CW50
53x47.5	13.7	3.0	3	CW50
53x51.5	15.0	3.0	4	CW50
53x53.5	15.7	3.0	4	CW45/CW50
53x57.5	17.0	3.0	4	CW45/CW50
53x59.5	17.6	4.0	4	CW50
53x61.5	18.3	4.0	4	CW50
53x65.5	19.6	4.0	4	CW50
53x71.5	21.6	4.0	4	CW50
59x35.5	11.0	3.0	3	CW50
59x37.5	11.7	3.0	3	CW50
59x41.5	13.2	3.0	3	CW50
59x45.5	14.7	3.0	3	CW50
59x47.5	15.4	3.0	3	CW45/CW50
59x51.5	16.9	3.0	4	CW45/CW50
59x53.5	17.7	4.0	4	CW50
59x57.5	19.1	4.0	4	CW50
59x59.5	19.9	4.0	4	CW50
59x61.5	20.6	4.0	4	CW50
59x65.5	22.1	4.0	4	CW50
59x71.5	24.3	4.0	4	CW45/CW50

Replacement Transoms				
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
		Annealed	Tempered	
23.5x14	1.0	2.5	3	CW50
23.5x17	1.4	2.5	3	CW50
23.5x25	2.4	2.5	3	CW50
27.5x14	1.2	2.5	3	CW50
27.5x17	1.7	2.5	3	CW50
27.5x25	2.9	2.5	3	CW50
29.5x14	1.4	2.5	3	CW50
29.5x17	1.9	2.5	3	CW50
29.5x25	3.2	2.5	3	CW50
31.5x14	1.5	2.5	3	CW50
31.5x17	2.0	2.5	3	CW50
31.5x25	3.4	2.5	3	CW50
35.5x14	1.7	2.5	3	CW50
35.5x17	2.3	2.5	3	CW50
35.5x25	4.0	2.5	3	CW50
39.5x14	1.9	2.5	3	CW50
39.5x17	2.6	2.5	3	CW50
39.5x25	4.5	2.5	3	CW50
41.5x14	2.0	2.5	3	CW50
41.5x17	2.8	2.5	3	CW50
41.5x25	4.8	2.5	3	CW50

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



Pella® Reserve™ Traditional Hung Window

Design Data

Replacement Cottage Sash for Single- and Double-Hung									
Unit	Egress	Clear Opening		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
VG23.5 x 41.5		19-13/16	12-7/8	1.8	4.1	2.5	3	CW50	CW45
VG23.5 x 45.5		19-13/16	14-1/2	2.0	4.6	2.5	3	CW50	CW45
VG23.5 x 47.5		19-13/16	15-1/4	2.1	4.8	2.5	3	CW50	CW45
VG23.5 x 51.5		19-13/16	16-7/8	2.3	5.3	2.5	3	CW50	CW45
VG23.5 x 53.5		19-13/16	17-11/16	2.4	5.6	2.5	3	CW50	CW45
VG23.5 x 57.5		19-13/16	19-1/4	2.7	6.1	2.5	3	CW50	CW45
VG23.5 x 59.5		19-13/16	19-15/16	2.8	6.3	2.5	3	CW50	CW45
VG23.5 x 61.5		19-13/16	20-7/8	2.9	6.5	2.5	3	CW50	CW45
VG23.5 x 65.5		19-13/16	22-1/2	3.1	7.0	2.5	3	CW40	CW40
VG23.5 x 71.5		19-13/16	24-7/8	3.4	7.8	2.5	3	CW30	CW30
VG27.5 x 41.5		23-13/16	12-7/8	2.1	5.0	2.5	3	CW50	CW45
VG27.5 x 45.5		23-13/16	14-1/2	2.4	5.6	2.5	3	CW50	CW45
VG27.5 x 47.5		23-13/16	15-1/4	2.5	5.9	2.5	3	CW50	CW45
VG27.5 x 51.5		23-13/16	16-7/8	2.8	6.5	2.5	3	CW50	CW45
VG27.5 x 53.5		23-13/16	17-11/16	2.9	6.8	2.5	3	CW50	CW45
VG27.5 x 57.5		23-13/16	19-1/4	3.2	7.4	2.5	3	CW50	CW45
VG27.5 x 59.5		23-13/16	19-15/16	3.3	7.7	2.5	3	CW50	CW45
VG27.5 x 61.5		23-13/16	20-7/8	3.5	8.0	2.5	3	CW50	CW45
VG27.5 x 65.5		23-13/16	22-1/2	3.7	8.6	2.5	3	CW40	CW40
VG27.5 x 71.5		23-13/16	24-7/8	4.1	9.5	2.5	3	CW30	CW30
VG29.5 x 41.5		25-13/16	12-7/8	2.3	5.4	2.5	3	CW50	CW45
VG29.5 x 45.5		25-13/16	14-1/2	2.6	6.1	2.5	3	CW50	CW45
VG29.5 x 47.5		25-13/16	15-1/4	2.7	6.4	2.5	3	CW50	CW45
VG29.5 x 51.5		25-13/16	16-7/8	3.0	7.1	2.5	3	CW50	CW45
VG29.5 x 53.5		25-13/16	17-11/16	3.2	7.4	2.5	3	CW50	CW45
VG29.5 x 57.5		25-13/16	19-1/4	3.5	8.1	2.5	3	CW50	CW45
VG29.5 x 59.5		25-13/16	19-15/16	3.6	8.4	2.5	3	CW50	CW45
VG29.5 x 61.5		25-13/16	20-7/8	3.7	8.7	2.5	3	CW50	CW45
VG29.5 x 65.5		25-13/16	22-1/2	4.0	9.4	2.5	3	CW40	CW40
VG29.5 x 71.5		25-13/16	24-7/8	4.5	10.4	2.5	3	CW30	CW30
VG31.5 x 41.5		27-13/16	12-7/8	2.5	5.9	2.5	3	CW50	CW45
VG31.5 x 45.5		27-13/16	14-1/2	2.8	6.6	2.5	3	CW50	CW45
VG31.5 x 47.5		27-13/16	15-1/4	3.0	7.0	2.5	3	CW50	CW45
VG31.5 x 51.5		27-13/16	16-7/8	3.3	7.7	2.5	3	CW50	CW45
VG31.5 x 53.5		27-13/16	17-11/16	3.4	8.0	2.5	3	CW50	CW45
VG31.5 x 57.5		27-13/16	19-1/4	3.7	8.8	2.5	3	CW50	CW45
VG31.5 x 59.5		27-13/16	19-15/16	3.9	9.1	2.5	3	CW50	CW45
VG31.5 x 61.5		27-13/16	20-7/8	4.0	9.5	2.5	3	CW50	CW45
VG31.5 x 65.5		27-13/16	22-1/2	4.3	10.2	2.5	3	CW40	CW40
VG31.5 x 71.5		27-13/16	24-7/8	4.8	11.3	2.5	3	CW30	CW30

Continued on next page

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



Pella® Reserve™ Traditional Hung Window

Design Data

Replacement Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
VG35.5 x 41.5		31-13/16	12-7/8	2.8	6.8	2.5	3	CW50	CW45
VG35.5 x 45.5		31-13/16	14-1/2	3.2	7.6	2.5	3	CW50	CW45
VG35.5 x 47.5		31-13/16	15-1/4	3.4	8.0	2.5	3	CW50	CW45
VG35.5 x 51.5		31-13/16	16-7/8	3.7	8.9	2.5	3	CW50	CW45
VG35.5 x 53.5		31-13/16	17-11/16	3.9	9.3	2.5	3	CW50	CW45
VG35.5 x 57.5		31-13/16	19-1/4	4.3	10.1	2.5	3	CW50	CW45
VG35.5 x 59.5		31-13/16	19-15/16	4.4	10.5	2.5	3	CW50	CW45
VG35.5 x 61.5		31-13/16	20-7/8	4.6	11.0	2.5	3	CW50	CW45
VG35.5 x 65.5		31-13/16	22-1/2	5.0	11.8	2.5	3	CW40	CW40
VG35.5 x 71.5	E ₁	31-13/16	24-7/8	5.5	13.0	2.5	3	CW30	CW30
VG39.5 x 41.5		35-13/16	12-7/8	3.2	7.7	2.5	3	CW50	CW45
VG39.5 x 45.5		35-13/16	14-1/2	3.6	8.7	2.5	3	CW50	CW45
VG39.5 x 47.5		35-13/16	15-1/4	3.8	9.1	2.5	3	CW50	CW45
VG39.5 x 51.5		35-13/16	16-7/8	4.2	10.1	2.5	3	CW50	CW45
VG39.5 x 53.5		35-13/16	17-11/16	4.4	10.5	2.5	3	CW50	CW45
VG39.5 x 57.5		35-13/16	19-1/4	4.8	11.5	2.5	3	CW50	CW45
VG39.5 x 59.5		35-13/16	19-15/16	5.0	11.9	2.5	3	CW50	CW45
VG39.5 x 61.5		35-13/16	20-7/8	5.2	12.4	2.5	3	CW45	CW45
VG39.5 x 65.5		35-13/16	22-1/2	5.6	13.4	2.5	3	CW40	CW40
VG39.5 x 71.5	E	35-13/16	24-7/8	6.2	14.8	2.5	3	CW30	CW30
VG41.5 x 41.5		37-13/16	12-7/8	3.4	8.2	2.5	3	CW50	CW45
VG41.5 x 45.5		37-13/16	14-1/2	3.8	9.2	2.5	3	CW50	CW45
VG41.5 x 47.5		37-13/16	15-1/4	4.0	9.7	2.5	3	CW50	CW45
VG41.5 x 51.5		37-13/16	16-7/8	4.4	10.7	2.5	3	CW50	CW45
VG41.5 x 53.5		37-13/16	17-11/16	4.6	11.2	2.5	3	CW50	CW45
VG41.5 x 57.5		37-13/16	19-1/4	5.1	12.2	2.5	3	CW45	CW45
VG41.5 x 59.5		37-13/16	19-15/16	5.3	12.7	2.5	3	CW45	CW45
VG41.5 x 61.5		37-13/16	20-7/8	5.5	13.2	2.5	3	CW45	CW45
VG41.5 x 65.5		37-13/16	22-1/2	5.9	14.1	2.5	3	CW40	CW40
VG41.5 x 71.5	E	37-13/16	24-7/8	6.5	15.6	2.5	3	CW30	CW30

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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

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



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 [clear pine] [mahogany] [douglas fir].
- 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 3-13/16" (97mm) and 9-3/16" (233mm).
- Vinyl jamb liner with wood / clad inserts.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.
- Optional factory-installed Pella Steady Set Installation System.

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] [mahogany] [douglas fir]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with extruded aluminum butt-jointed at all corners of the sash with through-stile construction and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Double-Hung: Upper sash has surface-mounted wash locks for easy tilt-in cleaning] [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 allowing sash to tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.
- Sash exterior profile is [ogee] [putty glaze], interior profile is ogee.

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.
- Kerf mounted bristle weatherstrip at sill.
- 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 dual-pane 11/16" dual-seal insulating glass [[annealed] [tempered]], [[clear] [[Advanced] [SunDefense™] [SunDefense+] [NaturalSun] [NaturalSun+] [AdvancedComfort] Low-E [with argon]] [[bronze] [gray] [green] Advanced Low-E [with Argon]]] [obscure] [Reflective Bronze].
– or –
- Silicone-glazed dual-pane 13/16" dual-seal [[annealed] [tempered]] non-impact laminated glass [[clear] [[Advanced] [SunDefense] 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] [feature] [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 is [standard] [feature] [custom]₁.

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: 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]] [Satin Brass] [Satin Nickel] [Oil-rubbed Bronze] [Distressed Bronze] [Distressed Nickel].

Optional Products

Sash

- Exterior sash lugs
 - Optional factory applied accessory. Exterior finish is [Standard₁] [Custom₁].

Grilles

- Integral Light Technology® grilles
 - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [pine] [mahogany] [douglas fir]. 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] [Tan₃] [Brown₃] [Putty₃] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
- Exterior color₄ is [standard]₁.

Screens

- Integrated Rolscreen® (for rectangular units only)₆
 - Retractable screen integrated into [lower sash] [both upper and lower sash]. Screen rollers are fixed and concealed within the frame, screen is held to the sash by magnets which release when the bottom sash is tilted for cleaning, and when the upper sash is opened past 18".
 - InView Screen cloth, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201.
– or –
- 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 a [standard roll-form] [premium extruded] 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.
 - Screen frame finish is [standard screen: baked enamel] [premium extruded: 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. 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.

Sensors

- Optional factory installed integrated security sensors available in vent units.

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

(2) Available in clear or Low-E insulating glass only.

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

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

(6) Integrated Rolscreen only available on sizes ≥ 34" tall and 21" wide, and ≤ 84" tall and 48" wide.



Detailed Product Description - Wood 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 [clear pine] [mahogany] (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Vinyl Jamb liner includes wood / clad inserts.
- Optional factory applied jamb extensions available between 4-5/16" (110mm) and 9-3/16" (233mm).

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] [mahogany (standard rectangular windows only)]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Sash exterior profile is putty glaze, interior profile is ogee.
- Corners [mortised and tenoned on rectangular units] [mitered on arch head units], glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- [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 in 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.
- Kerf mounted bristle weatherstrip at sill.
- 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 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon]] [bronze] [gray] [green] Advanced Low-E with argon].

Exterior

- [Pine: factory primed with one coat acrylic latex] [Mahogany: [factory primed with one coat acrylic latex] [Unfinished, ready for site finishing]].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: 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]] [satin brass] [satin nickel] [oil-rubbed bronze] [distressed bronze] [distressed nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
 - Interior grilles are solid [5/8"] [7/8"] [1-1/4"] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]₁].
 - Exterior grilles are solid [5/8"] [7/8"] [1-1/4"] putty glaze 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] [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] [Tan₃] [Brown₃] [Putty₃] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₅ is [standard]₁.

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 a [standard roll-form aluminum frame with 3/4" wide rails and stiles] [premium extruded aluminum frame with 1" wide rails and stiles] 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.

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. 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.

Sensors

- Optional factory installed integrated security sensors available in vent units.

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

(2) Available in clear or Low-E insulating glass with argon, 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.

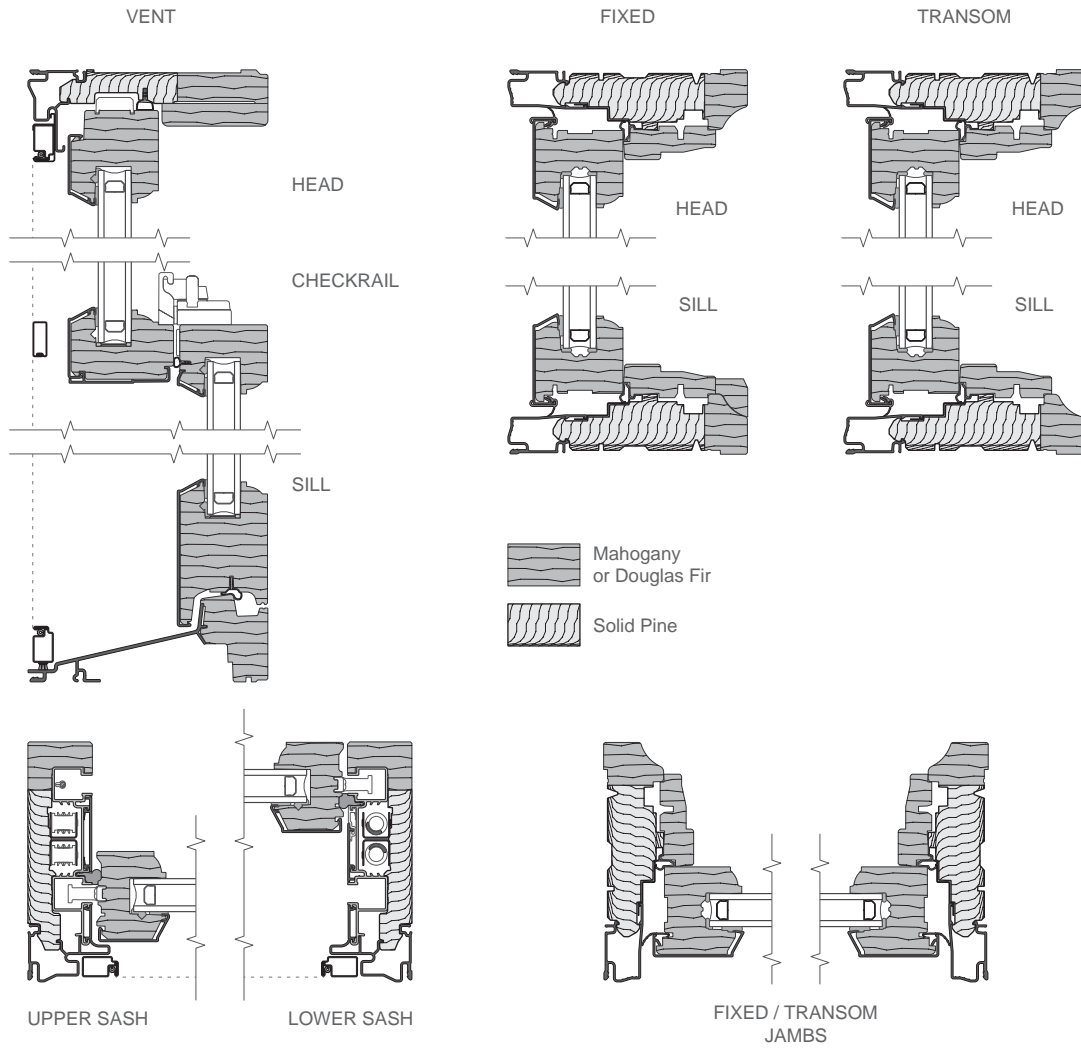
(4) Full screens are available on units ≤ 96" height.

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



Pella® Reserve™ Traditional Hung Window

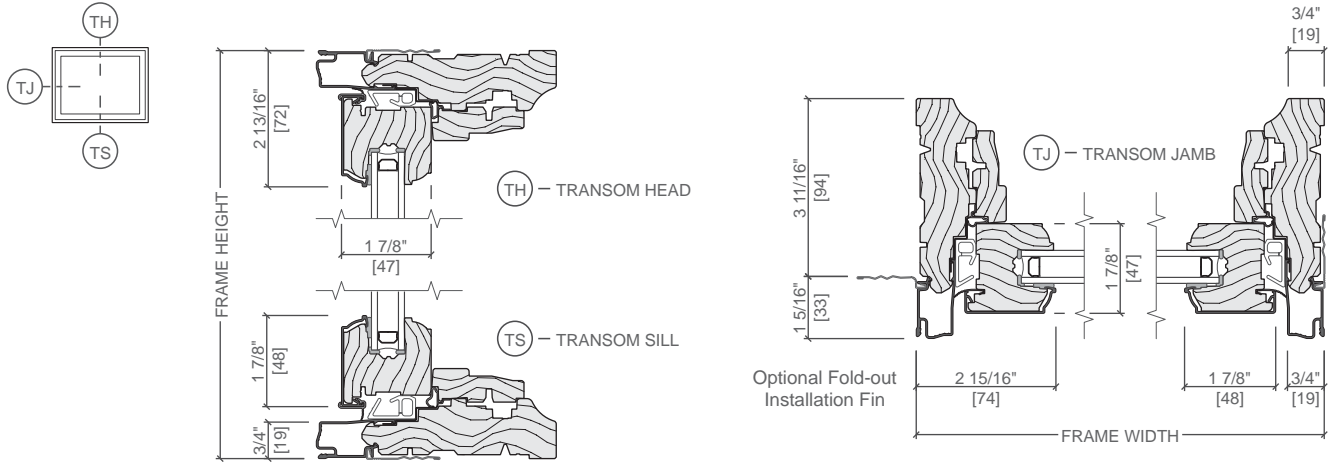
Unit Sections – Wood Collection



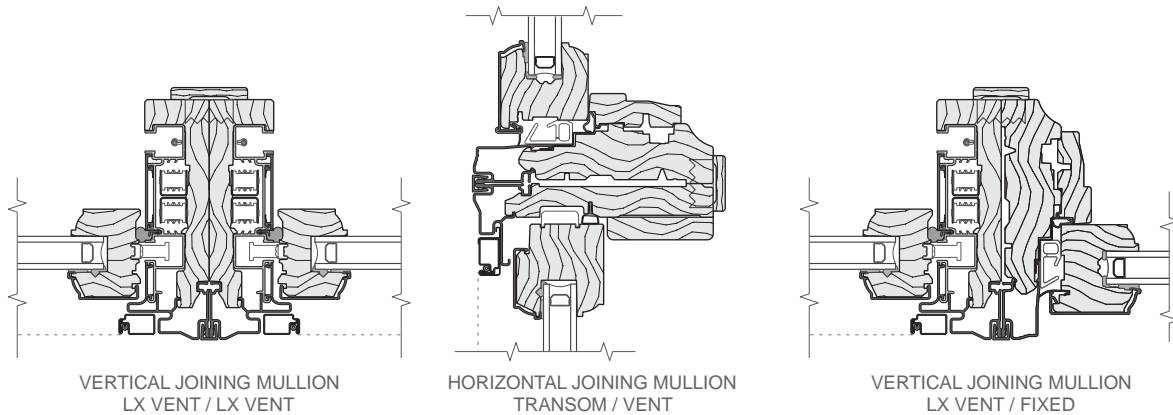


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



Typical Joining Mullions



Scale 3" = 1' 0"

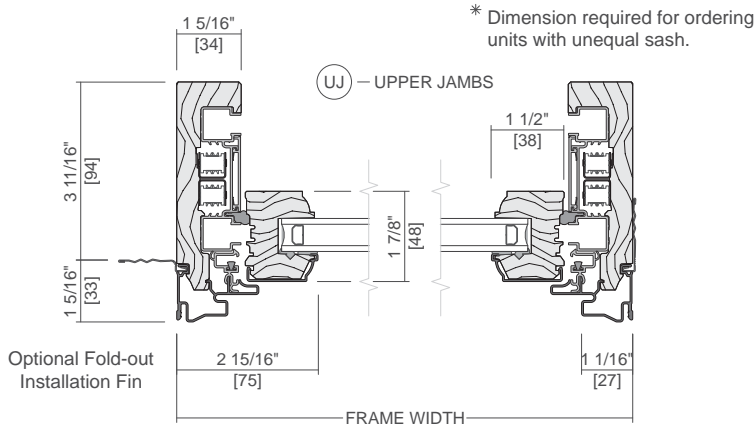
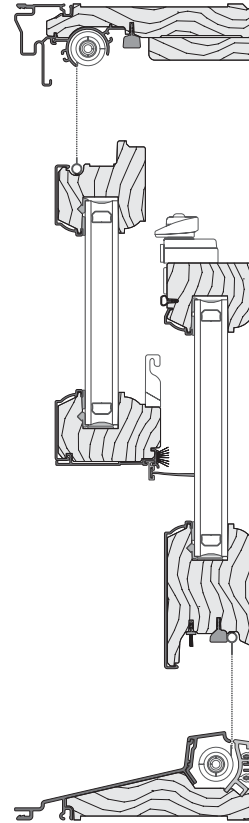
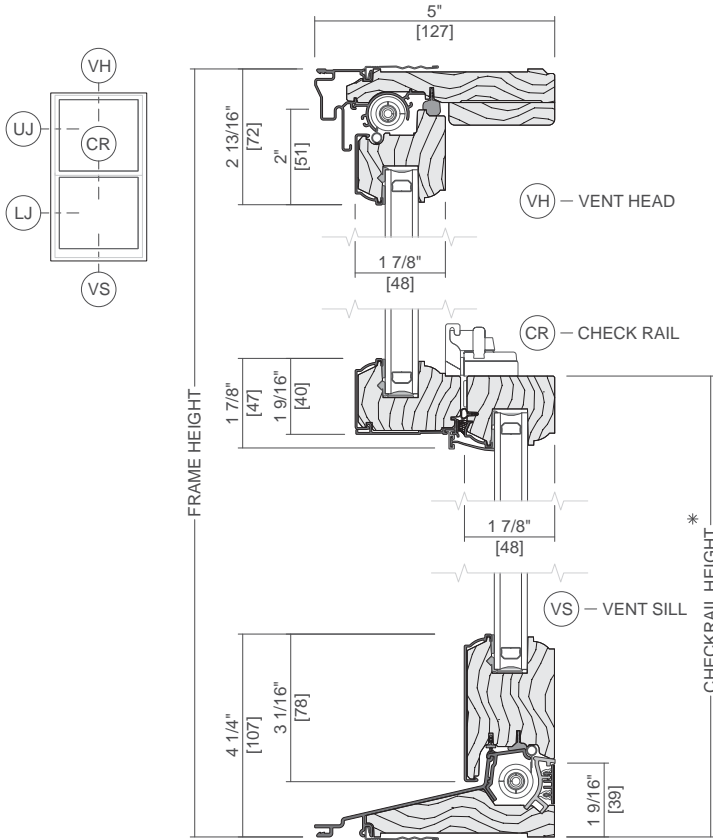
All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.

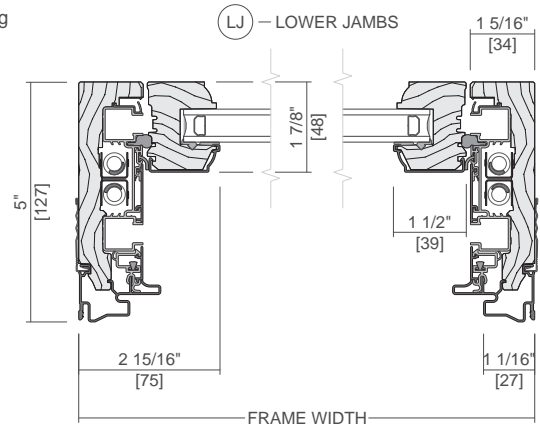


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile with Integrated Rolscreen®



* Dimension required for ordering units with unequal sash.



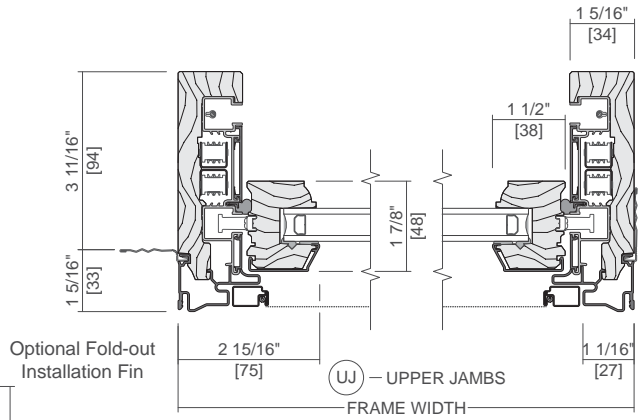
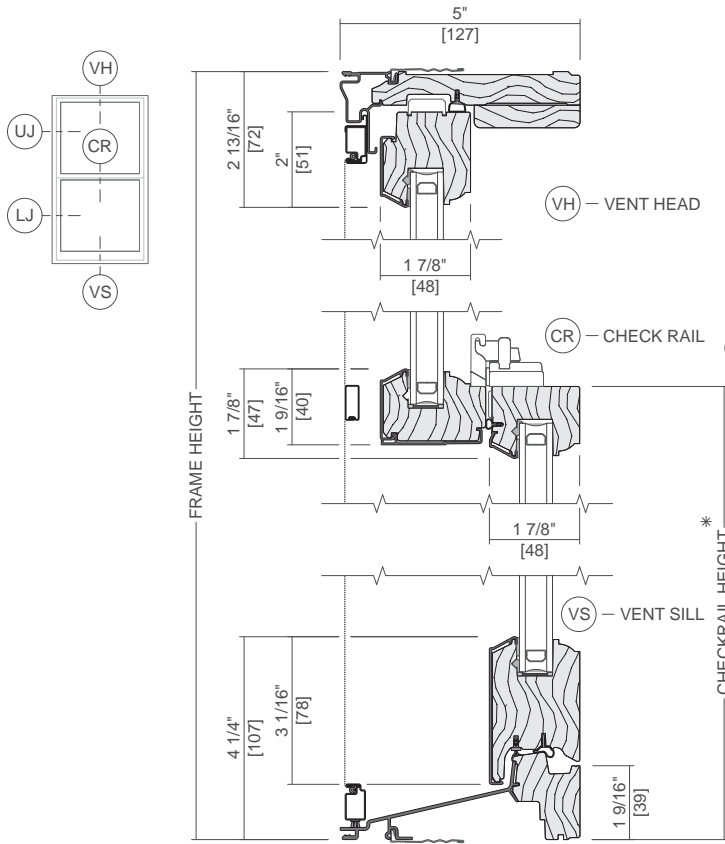
Scale 3" = 1' 0"

All dimensions are approximate.

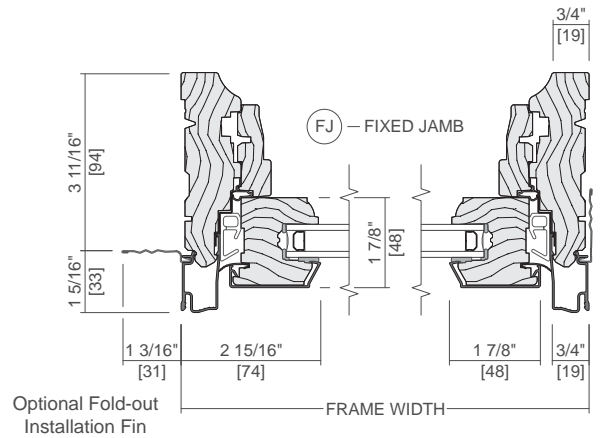
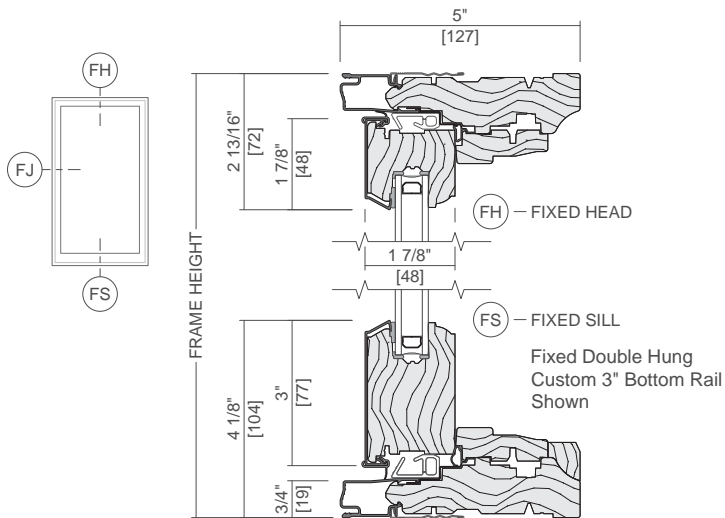
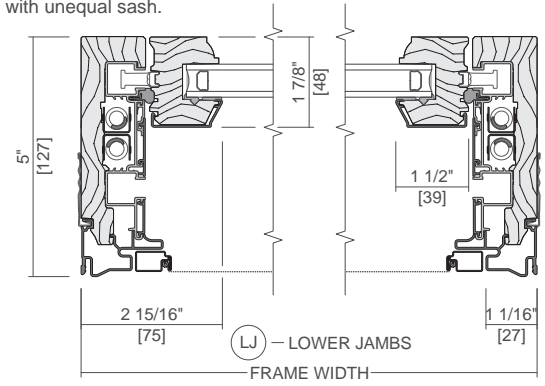


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



* Dimension required for ordering units with unequal sash.



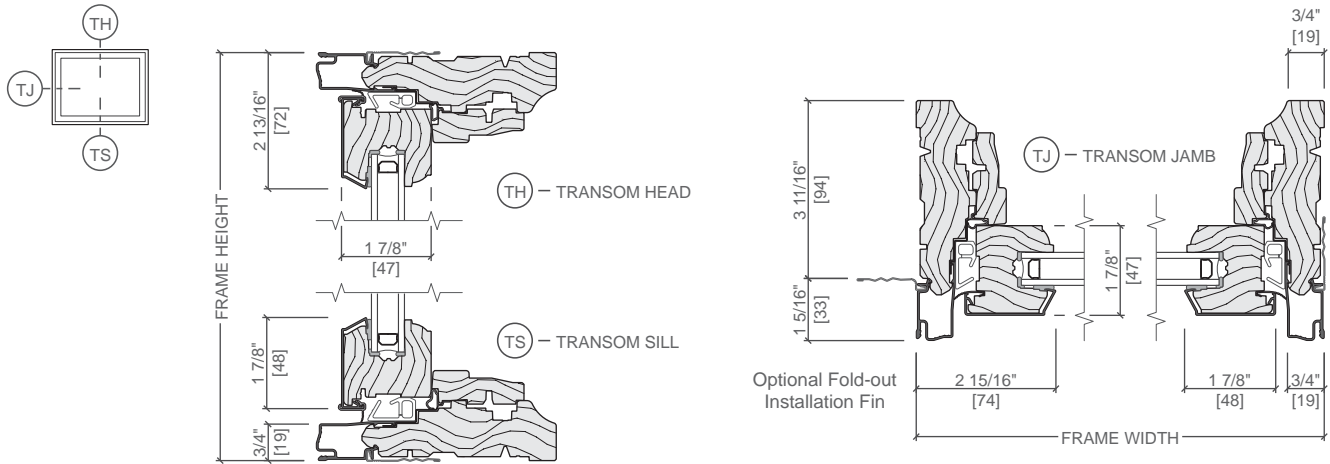
Scale 3" = 1' 0"

All dimensions are approximate.

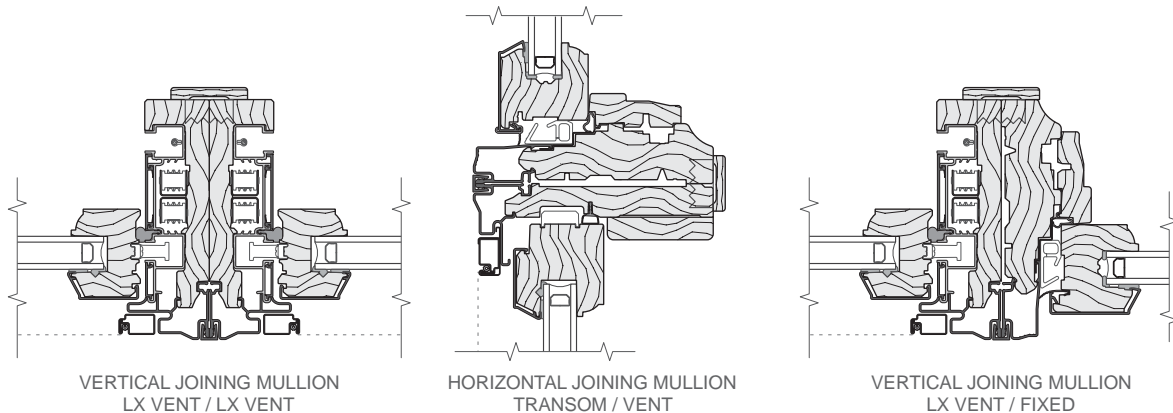


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



Typical Joining Mullions



Scale 3" = 1' 0"

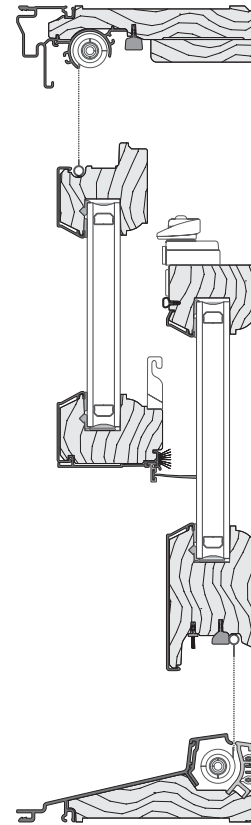
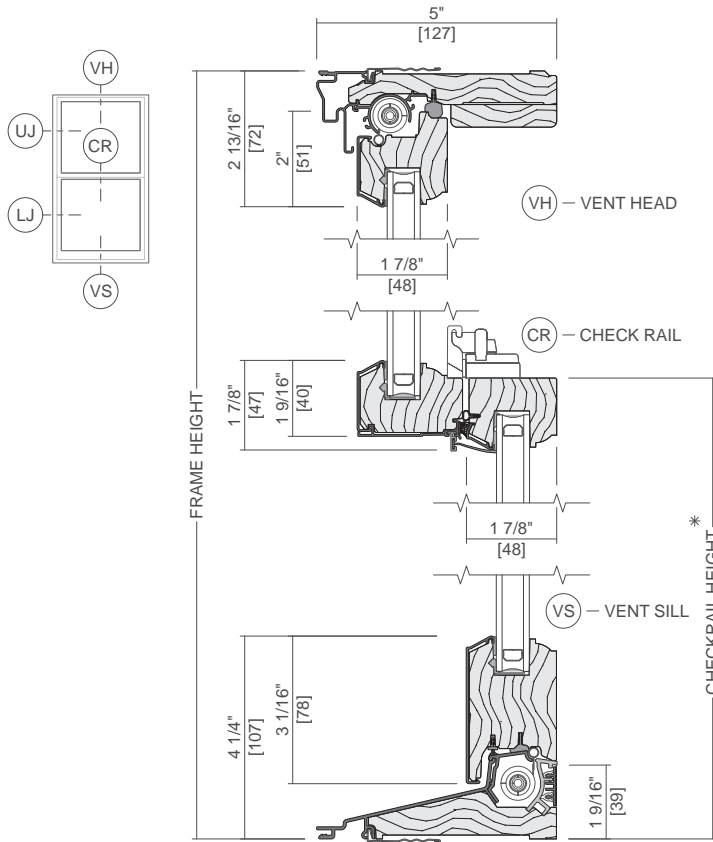
All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.

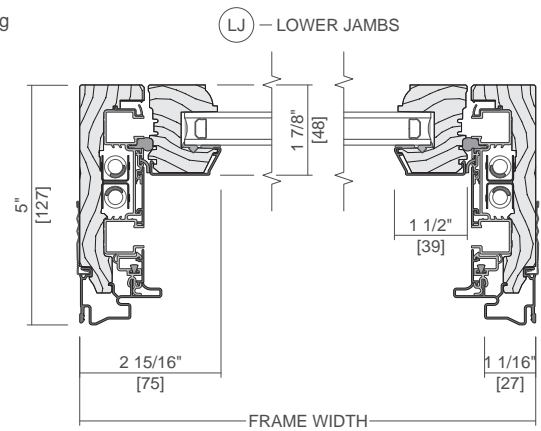
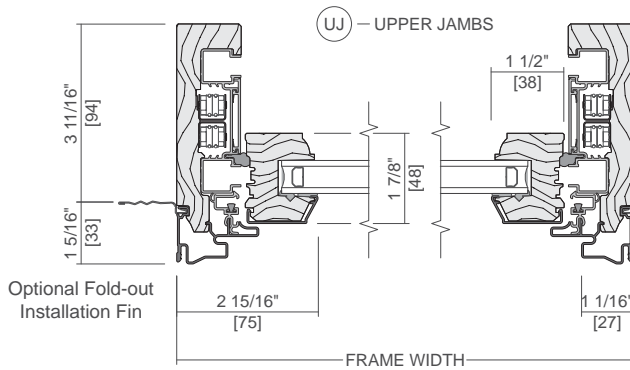


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile with Integrated Roloscreen®



* Dimension required for ordering units with unequal sash.



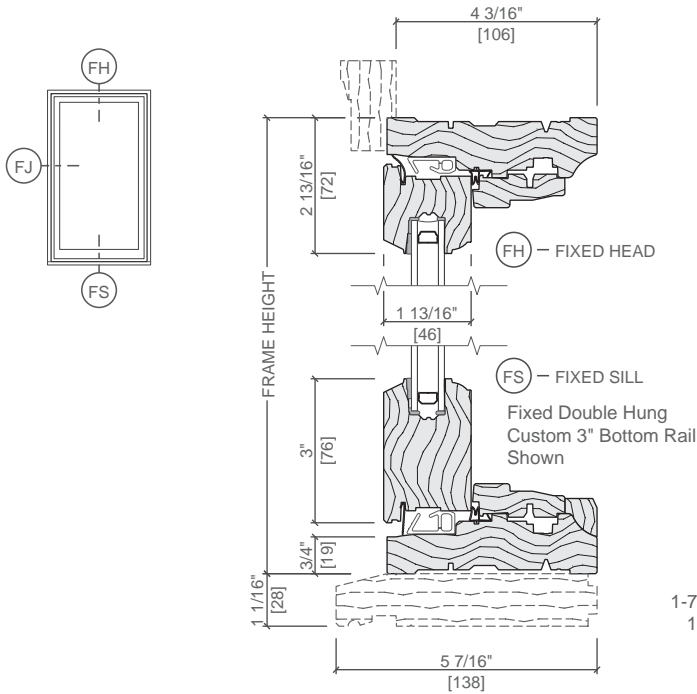
Scale 3" = 1' 0"

All dimensions are approximate.

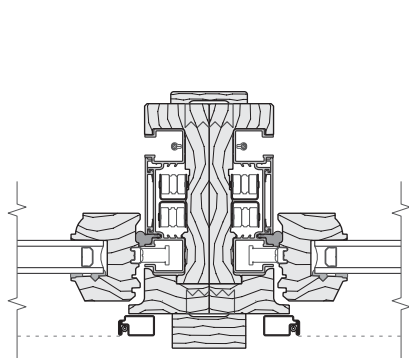
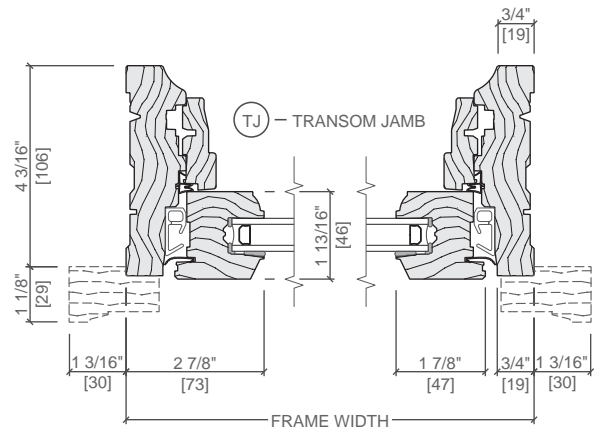
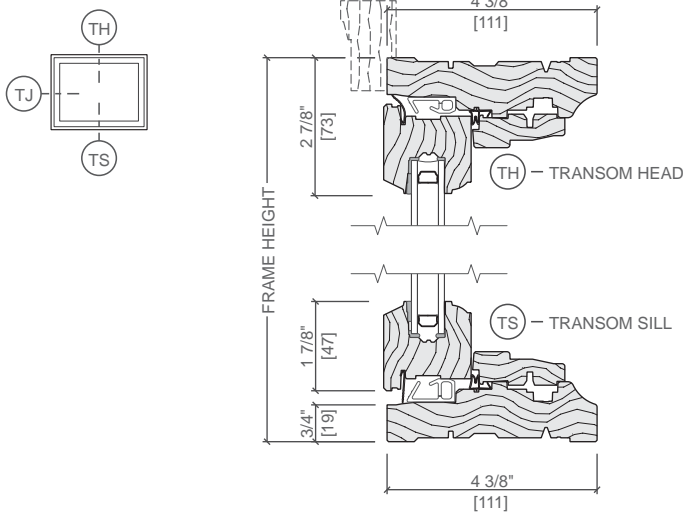
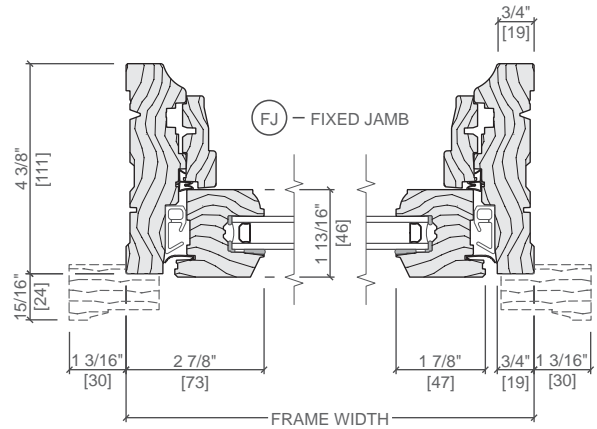


Pella® Reserve™ Traditional Hung Window

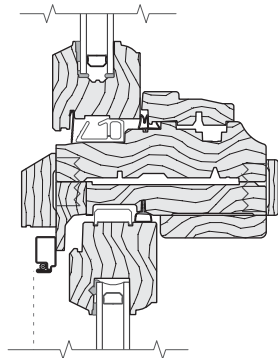
Unit Sections - Wood Exterior Putty Glaze Exterior Profile



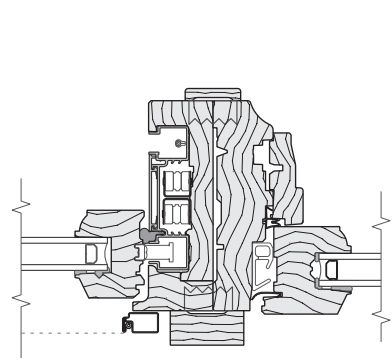
1-78" Brickmould #3443
1-1/8" Subsill #3544
Shown



VERTICAL JOINING MULLION
LX VENT / LX VENT



HORIZONTAL JOINING MULLION
TRANSOM / VENT



VERTICAL JOINING MULLION
LX VENT / FIXED

Scale 3" = 1' 0"

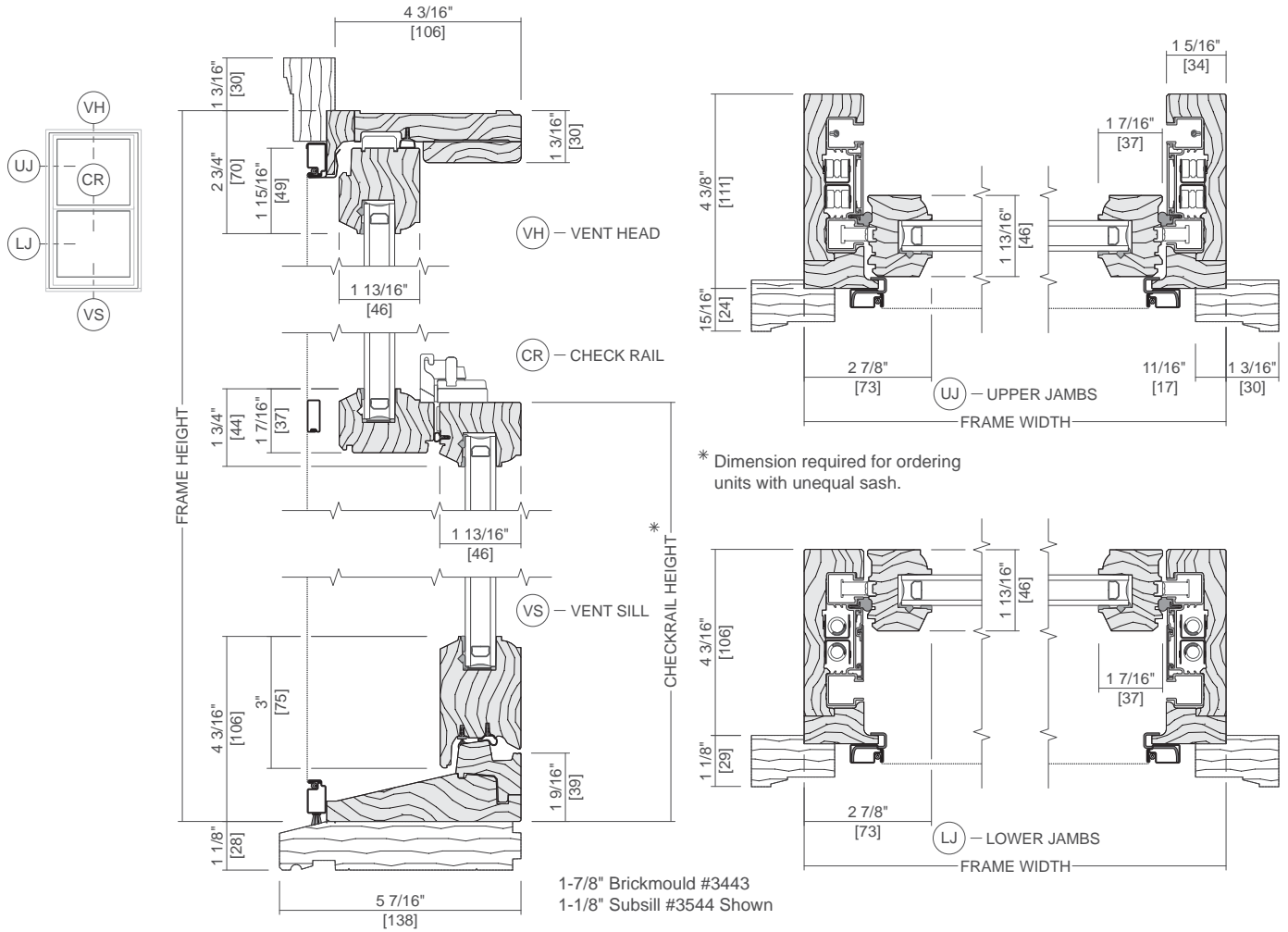
All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.

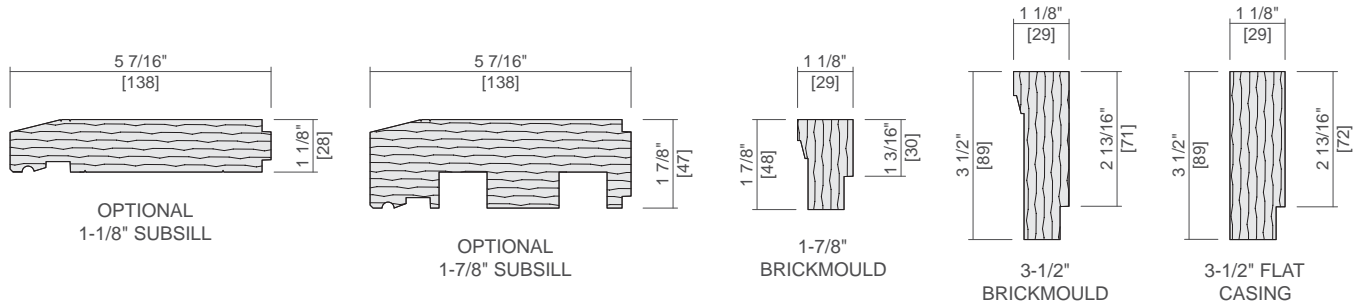


Pella® Reserve™ Traditional Hung Window

Unit Sections - Wood Exterior Putty Glaze Exterior Profile



* Dimension required for ordering units with unequal sash.



Scale 3" = 1' 0"

All dimensions are approximate.