



Product Selection Guide

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Supporting documents for this product:

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

https://media.pella.com/professional/adm/Wood-CSI_Specs/08552-HIG.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):

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

Size Tables (requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/ASCM6HIGE_D.dwg?utm_source=pdfdoc

CAD cross sections (requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/AS-RES-M6DH-HiG-Detail_D.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

Installation Details:

https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.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™ Impact-Resistant Hung Window

Size and Performance Data

	Clad
Sizes	
Standard Double-Hung Vent/Fixed Sizes	●
Transom Sizes	●
Egress Sizes	●
Cottage Sash Split	●
Variable Sash Split	●
Special Sizes Available	●
Performance¹ — Impact-Resistant Glass	
Meets or Exceeds AAMA/WDMA Ratings	H-CW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 wind pressure)	0.11
Water Resistance	7.5 psf
Design Pressure	50 psf
Other Performance Criteria	
Forced Entry Resistance Level (Minimum Security Grade) ²	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ³	40/45

Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested ₄	Glazing System			STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness		
Clad Hung Window Impact Resistant Glazing	With Grilles-Between-the-Glass or No Grilles					
	48" x 60"	13/16"	3mm	7.6mm PVB	34	28

(—) = Not Available

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values.

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

(3) Glazing configurations may result in higher operational forces.

(4) 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™ Impact-Resistant Hung Window

Glazing Performance - Total Unit

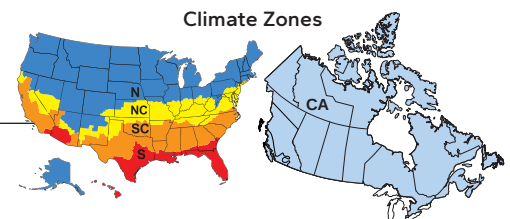
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	U-Factor	SHGC	VLT %	CR	Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.						U. S.				Canada 2	
										Zone		ER	Zone		
Laminated Impact-Resistant										N	NC	SC	S	CA	
13/16"	Clear IG	PEL-N-235-02713-00001	3	8	Air	0.43	0.51	0.55	44						
	with grilles-between-the-glass	PEL-N-235-02714-00001				0.44	0.45	0.49	44						
	with integral grilles	PEL-N-235-02715-00001				0.44	0.45	0.49	44						
13/16"	Advanced Low-E IG	PEL-N-235-02737-00001	3	8	Argon	0.28	0.25	0.47	58						
	with grilles-between-the-glass	PEL-N-235-02738-00001				0.29	0.23	0.42	58				S		
	with integral grilles	PEL-N-235-02739-00001				0.29	0.23	0.42	58				S		
13/16"	SunDefense™ Low-E IG	PEL-N-235-02865-00001	3	8	Argon	0.28	0.19	0.44	58			SC	S		
	with grilles-between-the-glass	PEL-N-235-02866-00001				0.29	0.17	0.39	58				S		
	with integral grilles	PEL-N-235-02867-00001				0.28	0.17	0.39	58			SC	S		
Tinted Glazing															
13/16"	Bronze Advanced Low-E IG	PEL-N-235-02785-00001	5	8	Argon	0.30	0.23	0.18	56				S		
	with grilles-between-the-glass	PEL-N-235-02786-00001				0.32	0.21	0.16	56				S		
	with integral grilles	PEL-N-235-02787-00001				0.31	0.21	0.16	56				S		
13/16"	Gray Advanced Low-E IG	PEL-N-235-02817-00001	5	8	Argon	0.30	0.24	0.22	56						
	with grilles-between-the-glass	PEL-N-235-02818-00001				0.32	0.21	0.19	56				S		
	with integral grilles	PEL-N-235-02819-00001				0.31	0.21	0.19	56				S		
13/16"	Green Advanced Low-E IG	PEL-N-235-02849-00001	5	8	Argon	0.30	0.24	0.37	56						
	with grilles-between-the-glass	PEL-N-235-02850-00001				0.32	0.22	0.33	56				S		
	with integral grilles	PEL-N-235-02851-00001				0.31	0.22	0.33	56				S		

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

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The Canadian values shown are based on the updated ENERGY STAR® 2020 initiative.

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



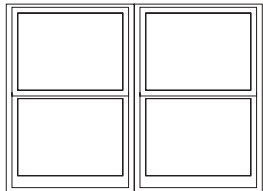


Combination Assemblies

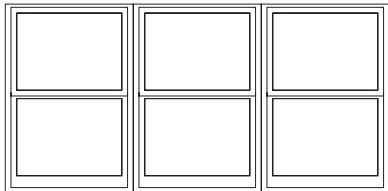
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullered together by a reinforcing mullion. Refer to local performance requirements, restrictions and installation instructions when mulling units.

See the Combination Recommendations document for typical combinations requirements and limitations.

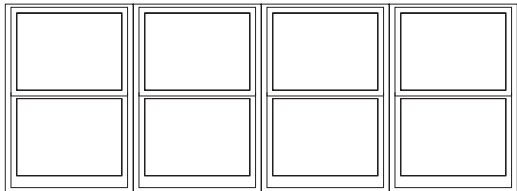
Contact your local Pella sales representative for more information.



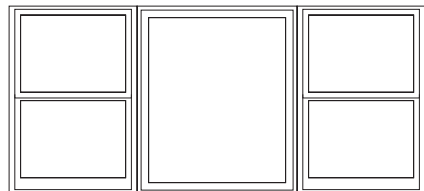
Two-Wide



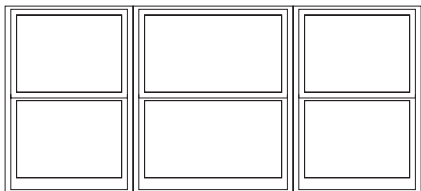
Three-Wide Equal



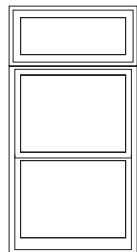
Four-Wide Equal



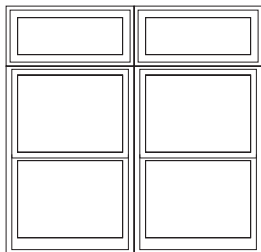
Center Fixed with Flankers



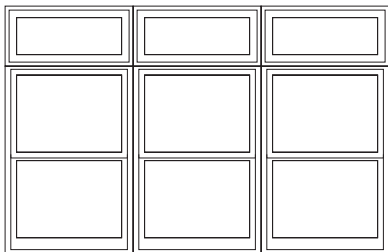
Three-Wide Unequal



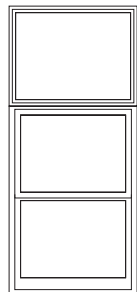
Transom over
Single



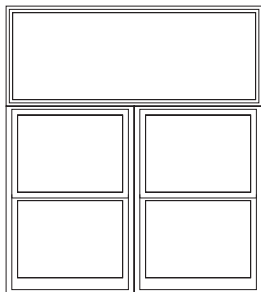
Two-Wide Transoms over
Two-Wide



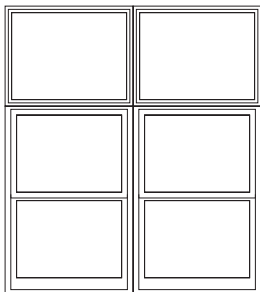
Three-Wide Transoms over
Three-Wide



Clad Frame over
Single



Single Clad Frame over
Two-Wide



Two Wide Clad Frame over
Two-Wide

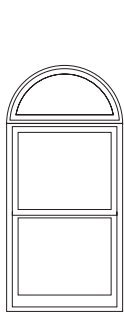


Combination Assemblies

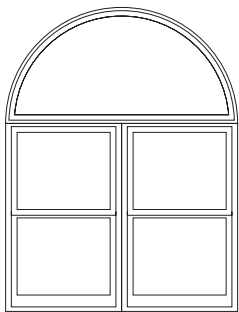
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a reinforcing mullion. Refer to local performance requirements, restrictions and installation instructions when mulling units.

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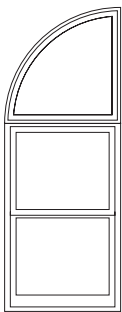
Contact your local Pella sales representative for more information.



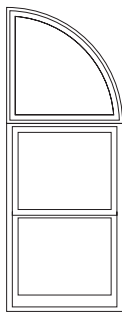
Half Circle over
Single



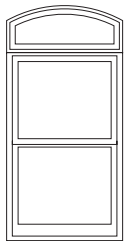
Half Circle over
Two-Wide



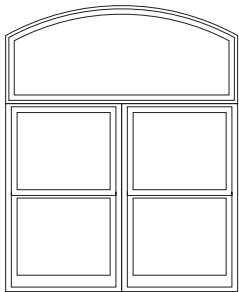
Left Quarter Circle
over Single



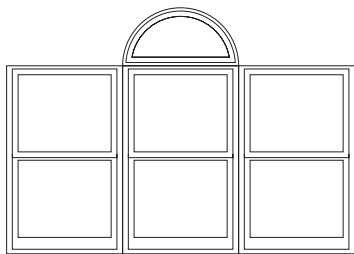
Right Quarter Circle
over Single



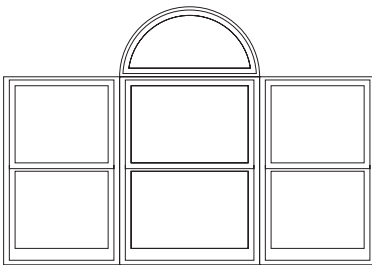
Arch Head over
Single



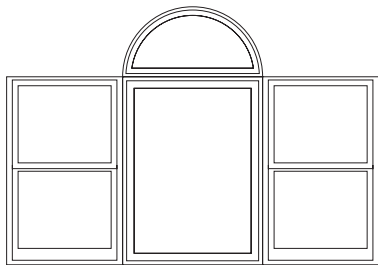
Arch Head over
Two-Wide



Half Circle centered on
Three-Wide Equal



Half Circle over
Three-Wide Unequal



Half Circle over
Center Fixed with Flankers

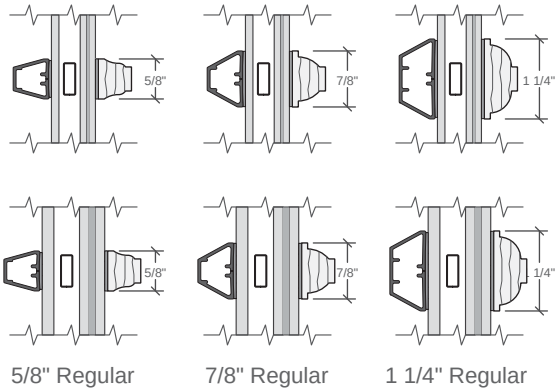


Grille Profiles

Traditional Style Collection - Integral Light Technology

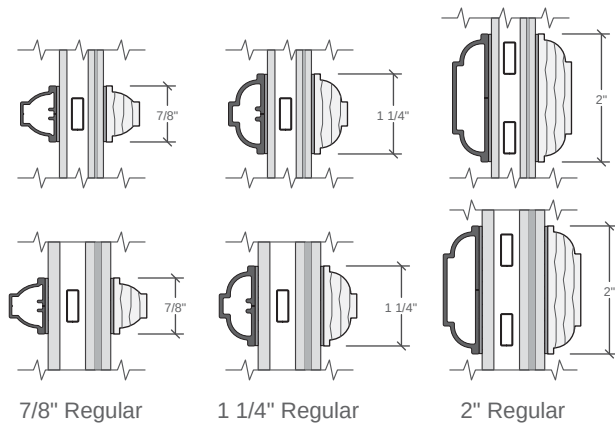
Putty Glaze and Ogee Grilles

Clad Exterior - Wood Interior

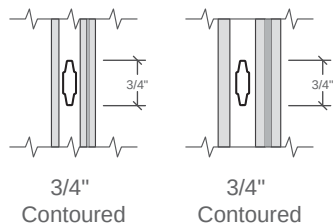


Ogee Grilles

Clad Exterior - Wood Interior



Grilles-Between-the-Glass



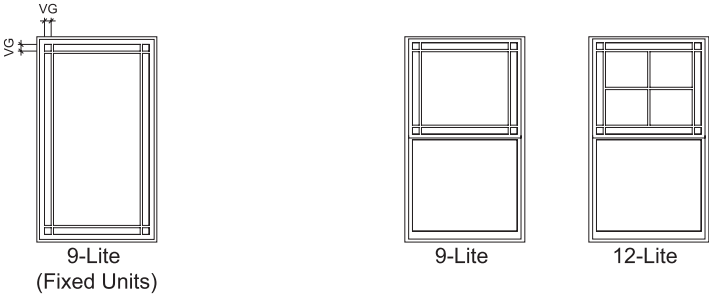
Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.



Grille Patterns

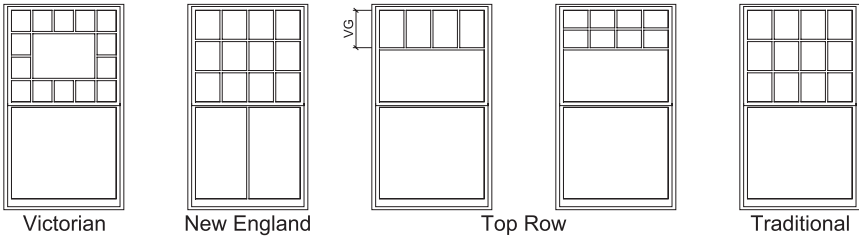
Integral Light Technology® Grille Patterns

Prairie Lite Patterns



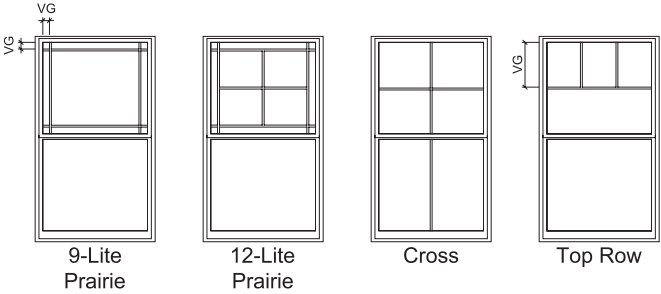
Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
Available in transoms ≥ 1'3" height and width.
Available in all standard and special sizes.

Other Available Integral Light Technology Grille 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.



Pella® Reserve™ Impact-Resistant Hung Window

Size Tables

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"
(908) (889)	2' 11 3/4"								
		2135	2535	2935	3335	3735	4135	4535	4835
	3' 5 3/4"								
		2141	2541	2941	3341	3741	4141	4541	4841
	3' 11"								
		2147	2547	2947	3347	3747	4147	4547	4847
	4' 5"								
		2153	2553	2953	3353	3753	4153	4553	4853
	4' 9"								
		2157	2557	2957	3357	3757	4157	4557	4857
(1 060) (1 041)	4' 11 3/4"								
		2159	2559	2959	3359	3759 E1	4159 E	4559 E	4859
	5' 5"								
		2165	2565	2965	3365 E1	3765 E	4165 E	4565	4865
	5' 11"								
		2171	2571	2971 E1	3371 E	3771 E	4171	4571	4871
	6' 5 3/4"								
		2177	2577	2977 E1	3377 E3	3777 E2	4177	4577 E2	4877 E2
	7' 0 3/4"								
		2184	2584 E1	2984	3384 E2	3784 E2	4184	4584 E2	4884

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.

E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E3 = With optional side pivot hardware, 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 and egress ratings for impact-resistant units.

Opening Dimensions

Clad exterior units:

Dimensions shown in tables are rough opening dimensions.

For 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.



Pella® Reserve™ Impact-Resistant Hung Window

Replacement Size Table

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"
(921) (902)	 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
(972) (953)	 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
(1 073) (1 054)	 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)	 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)	 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) (1 499)	 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)	 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)	 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)	 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	 35.5 x 61.5 E ₁	 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	 29.5 x 71.5 E ₁	 31.5 x 71.5 E ₁	 35.5 x 71.5 E	 39.5 x 71.5 E	

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Windows using the standard balance meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

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

E2 = Windows using the upgraded balance meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E3 = Window using the upgraded balance meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions and egress ratings for impact-resistant units.

Opening Dimensions

Clad exterior units:

Dimensions shown in tables are rough opening dimensions.

For 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.



Pella® Reserve™ Impact-Resistant Hung Window

Miscellaneous Formulas

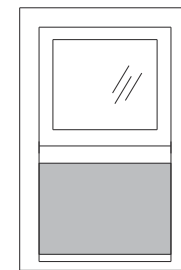
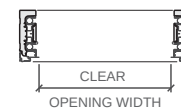
Frame Dimensions	Minimum	Maximum
Rectangular Only	13-3/4" W x 24" H (349 x 610 mm)	54" W x 96" H (372 x 2 438 mm)

Miscellaneous Formulas

Vent (Equal Sash)	
Visible Glass (inches)	Width = Frame - 7.594
	Height = (Frame - 10.572) ÷ 2
Actual Glass (inches)	Width = Frame - 6.245
	Height = (Frame - 7.874) ÷ 2
Clear Opening (inches)	COW = Frame - 4.928
	Standard Balances: COH = AGH - 1.313*
	Upgraded Balances: COH = AGH - 8.688
Vent Area (ft²)	(COW x COH) ÷ 144

* Addition of Sash Lug will reduce Clear Opening width and height by 1.25"

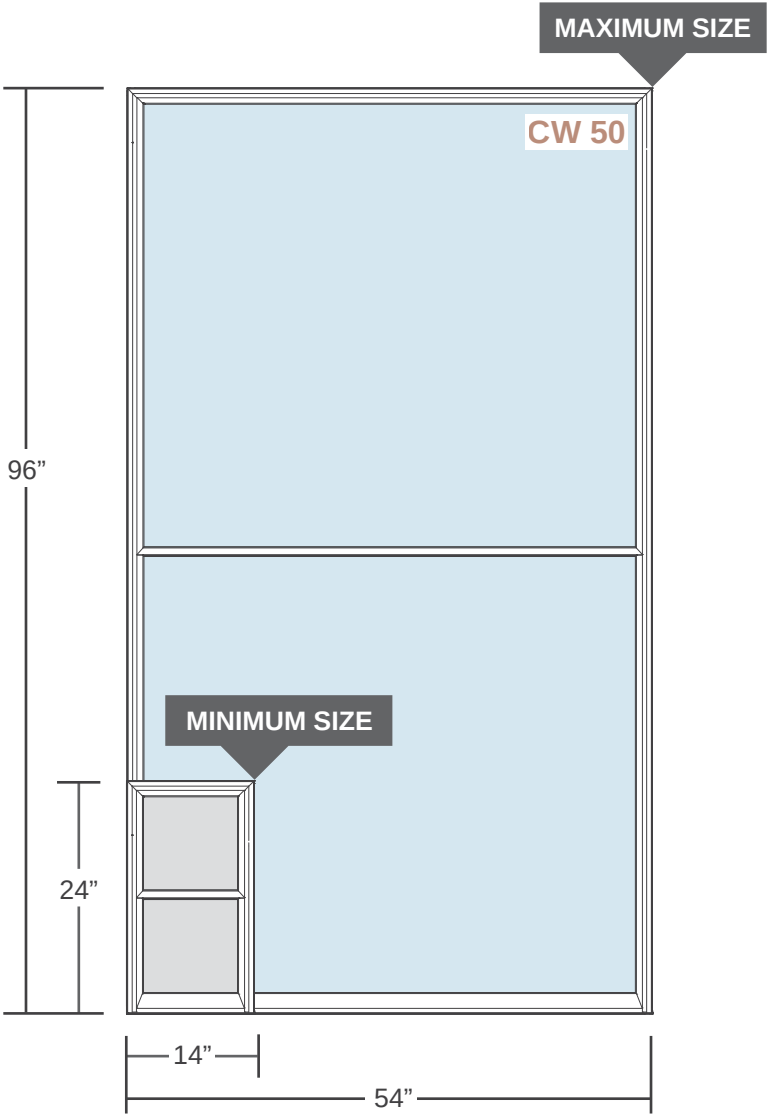
- Standard balance not available when sash weight > 70 lbs.
- Vivid View Screen Cloth not available when Frame Height > 84" or frame width > 48" & frame height > 48"



Shaded portion

Sash Configuration	Vent-Equal	Cottage	Fixed
Sash Glass Ratio % (Top : Bottom)	50 : 50	40 : 60	NA
Shortest Unit Frame Size	24-3/8" (889)	42-1/4" (1 073)	17" (432)
Tallest Unit Frame Size **	96" (2 438)	71" (1 803)	71" (1 803)
Unit Frame Width Range	14" to 54" (533 to 1 372)	21" to 52-1/4" (533 to 1 327)	17" to 59" (432 to 1 499)

** See size tables for width restrictions on taller units. Units wider than 48" are limited to 65" height.



Maximum performance when glazed with the appropriate glass thickness.



Pella® Reserve™ Impact-Resistant Hung Window

Design Data — Large Missile Rating D

13/16" Laminated Insulated Glass											
Unit	Egress	Clear Opening			Vent Area Ft ² (Standard Balance)	Vent Area Ft ² (Balance Upgrade)	Visible Glass Ft ²	Frame Area Ft ²	PVB ₁		
		Width (Inches)	Height (Standard Balance) (Inches)	Height (Balance Upgrade) (Inches)					CLAD		
									Design Pressure Large Missile Rating D	Hallmark Certified	Florida Product Approval System
2135		16-1/16	12-1/4	4-7/8	1.4	0.5	1.1	5.1	+50 / -50	411-H-1478	FL17769
2141		16-1/16	15-1/4	7-7/8	1.7	0.9	1.4	5.9	+50 / -50	411-H-1478	FL17769
2147		16-1/16	18-1/4	10-7/8	2.0	1.2	1.7	6.8	+50 / -50	411-H-1478	FL17769
2153		16-1/16	21-1/4	13-7/8	2.4	1.5	2.0	7.7	+50 / -50	411-H-1478	FL17769
2157		16-1/16	23-1/4	15-7/8	2.6	1.8	2.2	8.3	+50 / -50	411-H-1478	FL17769
2159		16-1/16	24-1/4	16-7/8	2.7	1.9	2.3	8.6	+50 / -50	411-H-1478	FL17769
2165		16-1/16	27-1/4	19-7/8	3.0	2.2	2.5	9.4	+50 / -50	411-H-1478	FL17769
2171		16-1/16	30-1/4	22-7/8	3.4	2.6	2.8	10.3	+50 / -50	411-H-1478	FL17769
2177		16-1/16	33-1/4	25-7/8	3.7	2.9	3.1	11.2	+50 / -50	411-H-1478	FL17769
2184		16-1/16	36-3/4	29-3/8	4.1	3.3	3.4	12.2	+50 / -50	411-H-1478	FL17769
2535		20-1/16	12-1/4	4-7/8	1.7	0.7	1.5	6.0	+50 / -50	411-H-1478	FL17769
2541		20-1/16	15-1/4	7-7/8	2.1	1.1	1.8	7.1	+50 / -50	411-H-1478	FL17769
2547		20-1/16	18-1/4	10-7/8	2.5	1.5	2.2	8.1	+50 / -50	411-H-1478	FL17769
2553		20-1/16	21-1/4	13-7/8	3.0	1.9	2.6	9.2	+50 / -50	411-H-1478	FL17769
2557		20-1/16	23-1/4	15-7/8	3.2	2.2	2.8	9.8	+50 / -50	411-H-1478	FL17769
2559		20-1/16	24-1/4	16-7/8	3.4	2.4	2.9	10.2	+50 / -50	411-H-1478	FL17769
2565		20-1/16	27-1/4	19-7/8	3.8	2.8	3.3	11.2	+50 / -50	411-H-1478	FL17769
2571		20-1/16	30-1/4	22-7/8	4.2	3.2	3.7	12.3	+50 / -50	411-H-1478	FL17769
2577		20-1/16	33-1/4	25-7/8	4.6	3.6	4.0	13.3	+50 / -50	411-H-1478	FL17769
2584	E1	20-1/16	36-3/4	29-3/8	5.1	4.1	4.4	14.5	+50 / -50	411-H-1478	FL17769
2935		24-1/16	12-1/4	4-7/8	2.0	0.8	1.8	7.0	+50 / -50	411-H-1478	FL17769
2941		24-1/16	15-1/4	7-7/8	2.5	1.3	2.3	8.2	+50 / -50	411-H-1478	FL17769
2947		24-1/16	18-1/4	10-7/8	3.1	1.8	2.7	9.4	+50 / -50	411-H-1478	FL17769
2953		24-1/16	21-1/4	13-7/8	3.6	2.3	3.2	10.6	+50 / -50	411-H-1478	FL17769
2957		24-1/16	23-1/4	15-7/8	3.9	2.7	3.5	11.4	+50 / -50	411-H-1478	FL17769
2959		24-1/16	24-1/4	16-7/8	4.1	2.8	3.6	11.8	+50 / -50	411-H-1478	FL17769
2965		24-1/16	27-1/4	19-7/8	4.6	3.3	4.0	13.0	+50 / -50	411-H-1478	FL17769
2971	E1	24-1/16	30-1/4	22-7/8	5.1	3.8	4.5	14.2	+50 / -50	411-H-1478	FL17769
2977	E1	24-1/16	33-1/4	25-7/8	5.6	4.3	4.9	15.5	+50 / -50	411-H-1478	FL17769
2984		24-1/16	36-3/4	29-3/8	6.1	4.9	5.5	16.9	+50 / -50	411-H-1478	FL17769
3335		28-1/16	12-1/4	4-7/8	2.4	1.0	2.2	8.0	+50 / -50	411-H-1478	FL17769
3341		28-1/16	15-1/4	7-7/8	3.0	1.5	2.7	9.3	+50 / -50	411-H-1478	FL17769
3347		28-1/16	18-1/4	10-7/8	3.6	2.1	3.2	10.7	+50 / -50	411-H-1478	FL17769
3353		28-1/16	21-1/4	13-7/8	4.1	2.7	3.7	12.1	+50 / -50	411-H-1478	FL17769
3357		28-1/16	23-1/4	15-7/8	4.5	3.1	4.1	13.0	+50 / -50	411-H-1478	FL17769
3359		28-1/16	24-1/4	16-7/8	4.7	3.3	4.3	13.5	+50 / -50	411-H-1478	FL17769
3365	E1	28-1/16	27-1/4	19-7/8	5.3	3.9	4.8	14.8	+50 / -50	411-H-1478	FL17769
3371	E	28-1/16	30-1/4	22-7/8	5.9	4.5	5.3	16.2	+50 / -50	411-H-1478	FL17769
3377	E, E3	28-1/16	33-1/4	25-7/8	6.5	5.0	5.9	17.6	+50 / -50	411-H-1478	FL17769
3384	E, E2	28-1/16	36-3/4	29-3/8	7.2	5.7	6.5	19.2	+50 / -50	411-H-1478	FL17769

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.

E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E3 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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



Pella® Reserve™ Impact-Resistant Hung Window

Design Data — Large Missile Rating D

13/16" Laminated Insulated Glass

Unit	Egress	Clear Opening			Vent Area Ft² (Standard Balance)	Vent Area Ft² (Balance Upgrade)	Visible Glass Ft²	Frame Area Ft²	PVB ₁		
		Width (Inches)	Height (Standard Balance) (Inches)	Height (Balance Upgrade) (Inches)					CLAD		
									Design Pressure Large Missile Rating D	Hallmark Certified	Florida Product Approval System
3735		32-1/16	12-1/4	4-7/8	2.7	1.1	2.5	8.9	+50 / -50	411-H-1478	FL17769
3741		32-1/16	15-1/4	7-7/8	3.4	1.8	3.1	10.5	+50 / -50	411-H-1478	FL17769
3747		32-1/16	18-1/4	10-7/8	4.1	2.4	3.7	12.0	+50 / -50	411-H-1478	FL17769
3753		32-1/16	21-1/4	13-7/8	4.7	3.1	4.3	13.6	+50 / -50	411-H-1478	FL17769
3757		32-1/16	23-1/4	15-7/8	5.2	3.5	4.7	14.6	+50 / -50	411-H-1478	FL17769
3759	E ₁	32-1/16	24-1/4	16-7/8	5.4	3.8	4.9	15.1	+50 / -50	411-H-1478	FL17769
3765	E	32-1/16	27-1/4	19-7/8	6.1	4.4	5.6	16.7	+50 / -50	411-H-1478	FL17769
3771	E	32-1/16	30-1/4	22-7/8	6.7	5.1	6.2	18.2	+50 / -50	411-H-1478	FL17769
3777	E, E ₂	32-1/16	33-1/4	25-7/8	7.4	5.8	6.8	19.7	+50 / -50	411-H-1478	FL17769
3784	E ₂	32-1/16	—	29-3/8	—	6.5	7.5	21.5	+50 / -50	411-H-1478	FL17769
4135		36-1/16	12-1/4	4-7/8	3.1	1.2	2.8	9.9	+50 / -50	411-H-1478	FL17769
4141		36-1/16	15-1/4	7-7/8	3.8	2.0	3.5	11.6	+50 / -50	411-H-1478	FL17769
4147		36-1/16	18-1/4	10-7/8	4.6	2.7	4.2	13.3	+50 / -50	411-H-1478	FL17769
4153		36-1/16	21-1/4	13-7/8	5.3	3.5	4.9	15.0	+50 / -50	411-H-1478	FL17769
4157		36-1/16	23-1/4	15-7/8	5.8	4.0	5.4	16.2	+50 / -50	411-H-1478	FL17769
4159	E	36-1/16	24-1/4	16-7/8	6.1	4.2	5.6	16.7	+50 / -50	411-H-1478	FL17769
4165	E	36-1/16	27-1/4	19-7/8	6.8	5.0	6.3	18.5	+50 / -50	411-H-1478	FL17769
4171		36-1/16	—	22-7/8	—	5.7	7.0	20.2	+50 / -50	411-H-1478	FL17769
4177		36-1/16	—	25-7/8	—	6.5	7.7	21.9	+50 / -50	411-H-1478	FL17769
4184		36-1/16	—	29-3/8	—	7.4	8.5	23.9	+50 / -50	411-H-1478	FL17769
4535		40-1/16	12-1/4	4-7/8	3.4	1.4	3.2	10.9	+50 / -50	411-H-1478	FL17769
4541		40-1/16	15-1/4	7-7/8	4.2	2.2	4.0	12.8	+50 / -50	411-H-1478	FL17769
4547		40-1/16	18-1/4	10-7/8	5.1	3.0	4.7	14.6	+50 / -50	411-H-1478	FL17769
4553		40-1/16	21-1/4	13-7/8	5.9	3.9	5.5	16.5	+50 / -50	411-H-1478	FL17769
4557		40-1/16	23-1/4	15-7/8	6.5	4.4	6.0	17.8	+50 / -50	411-H-1478	FL17769
4559	E	40-1/16	24-1/4	16-7/8	6.7	4.7	6.3	18.4	+50 / -50	411-H-1478	FL17769
4565		40-1/16	—	19-7/8	—	5.5	7.1	20.3	+50 / -50	411-H-1478	FL17769
4571		40-1/16	—	22-7/8	—	6.4	7.8	22.1	+50 / -50	411-H-1478	FL17769
4577	E ₂	40-1/16	—	25-7/8	—	7.2	8.6	24.0	+50 / -50	411-H-1478	FL17769
4584	E ₂	40-1/16	—	29-3/8	—	8.2	9.5	24.1	+50 / -50	411-H-1478	FL17769
4835		40-1/16	12-1/4	4-7/8	3.7	1.5	3.4	11.6	+50 / -50	411-H-1478	FL17769
4841		43-1/16	15-1/4	7-7/8	4.6	2.4	4.3	13.6	+50 / -50	411-H-1478	FL17769
4847		43-1/16	18-1/4	10-7/8	5.5	3.3	5.1	15.6	+50 / -50	411-H-1478	FL17769
4853		43-1/16	21-1/4	13-7/8	6.4	4.2	6.0	17.6	+50 / -50	411-H-1478	FL17769
4857		43-1/16	23-1/4	15-7/8	7.0	4.7	6.5	19.0	+50 / -50	411-H-1478	FL17769
4859		43-1/16	—	16-7/8	—	5.0	6.8	19.6	+50 / -50	411-H-1478	FL17769
4865		43-1/16	—	19-7/8	—	5.9	7.6	21.6	+50 / -50	411-H-1478	FL17769
4871		43-1/16	—	22-7/8	—	6.8	8.5	23.6	+50 / -50	411-H-1478	FL17769
4877	E ₂	43-1/16	—	25-7/8	—	7.7	9.3	23.7	+50 / -50	411-H-1478	FL17769
4884	E ₂	43-1/16	—	29-3/8	—	8.8	10.3	23.8	+50 / -50	411-H-1478	FL17769

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.

E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E3 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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



Detailed Product Description - Pella® Reserve™ Traditional

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].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Vinyl Jamb liner includes wood/clad inserts.
- Overall frame depth is 5-7/8" (149mm) for a wall depth of 4-9/16" (116mm).
- Optional factory applied jamb extensions available from 4-9/16" (116mm) and 7-3/16" (183mm) wall depths.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany (not available if sash weight > 200 lbs.)].
- Exterior surfaces are clad with extruded aluminum and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 2-1/4" (57mm).
- Exterior sash profile is [ogee] [putty glaze], interior profile is ogee.
- Double-hung upper sash (if sash weight ≤ 92 lbs.) has surface-mounted wash locks for tilt-in cleaning.
- Double-hung and single-hung lower sash (if sash weight ≤ 92 lbs.) has concealed wash locks in lower check rail for tilt-in cleaning.

Weatherstripping

- Santoprene-wrapped foam at head and sill.
- Full length glass filled polypropylene interlocker with integrated slip-coated thermoplastic elastomer leaf.
- Secondary nylon bristle rainstrip on lower sash at sill.
- Vinyl-wrapped foam with secondary nylon bristle rainstrip inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Impact-Resistant
 - Silicone-glazed 13/16" dual-seal impact-resistant insulating glass₂ PVB. [[tempered] [annealed]] exterior light is [[Advanced Low-E with argon] [clear]]. Laminated [clear] interior light, or [[tempered] [annealed]] exterior light is [[Advanced Low-E] [SunDefense] with argon] [clear]]. Laminated [[bronze] [gray] [green]] interior light.

Exterior

- Aluminum clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
 - Color is [Standard] [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] [custom]₁.

Interior

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

Hardware

- Galvanized block-and-tackle balances are attached to self-locking balance shoes connected to the sashes using zinc die cast terminals concealed within the frame.
 - or –
- Class 5 hybrid balance attached to [locking] [non-locking] balance shoes connected to the sashes using zinc die cast terminals and concealed within the frame.
 - or –
- Galvanized block-and-tackle balances combined with a Class 5 hybrid balance attached to non-locking balance shoes connected to the sashes using zinc die cast terminals and concealed within the frame.
- All balances comply with AAMA 902 specification
- Lock hardware is [standard lock (cam-action)] [spoon-style lock] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed, lower sash becomes operable)]. Two sash locks on all unit widths.
- Optional sash lift furnished for field installation. Two lifts on unit make width 37" and greater.
- Hardware Finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze] [Antique Brass] [Distressed Bronze] [Distressed Nickel].

Optional Products

Sash

- Exterior sash lugs
 - Optional factory applied accessory. Exterior finish is [Standard]₁ [Custom].

Grilles

- Integral Light Technology® grilles
 - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]].
 - Exterior grilles are [5/8" putty 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 (exterior air-space on triple-pane insulating glass)
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row]
 - Interior color is [White] [Tan₃] [Brown₃] [Putty₃] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₄ is [standard]₁.

Screens

- InView™ Screens
 - [Full-screen (not available on units > 120" tall)] [half-screen] black Vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [extruded (optional on units < 84" height, standard on units > 84")] [standard] 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 baked enamel, color to match window cladding.

Hardware

- Optional factory applied limited opening device available for venting units; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

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

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

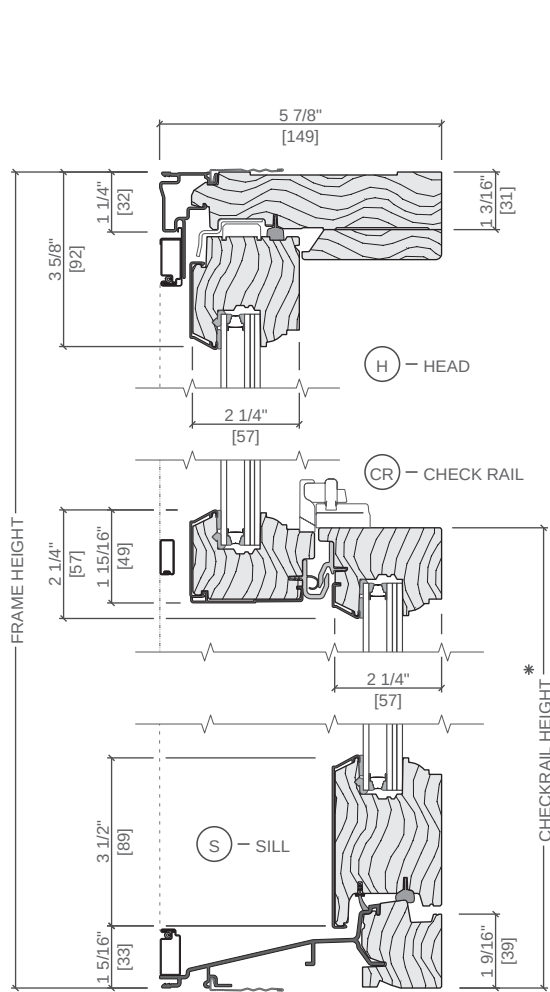
(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

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

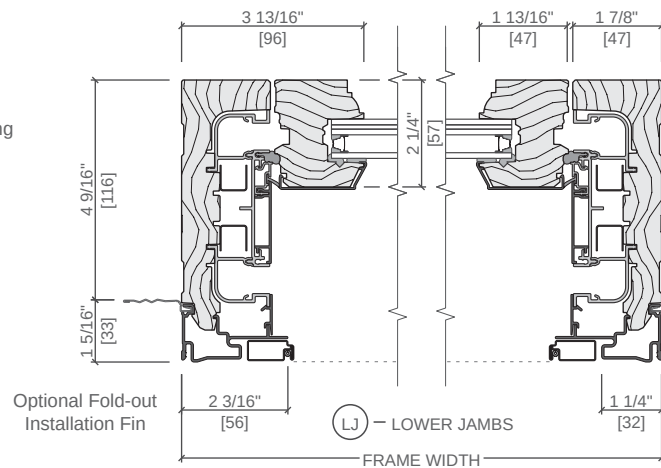
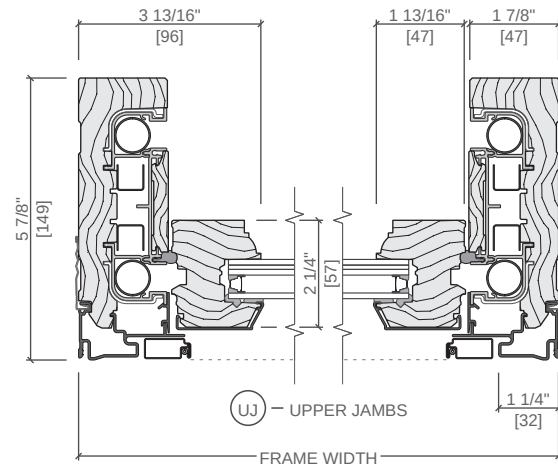
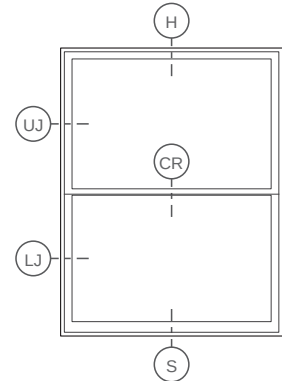


Pella® Reserve™ Impact-Resistant Hung Window

Unit Sections - 13/16" Laminated Insulated Glazing Pella® Reserve™ Traditional Double-Hung



* Dimension required for ordering units with unequal sash.



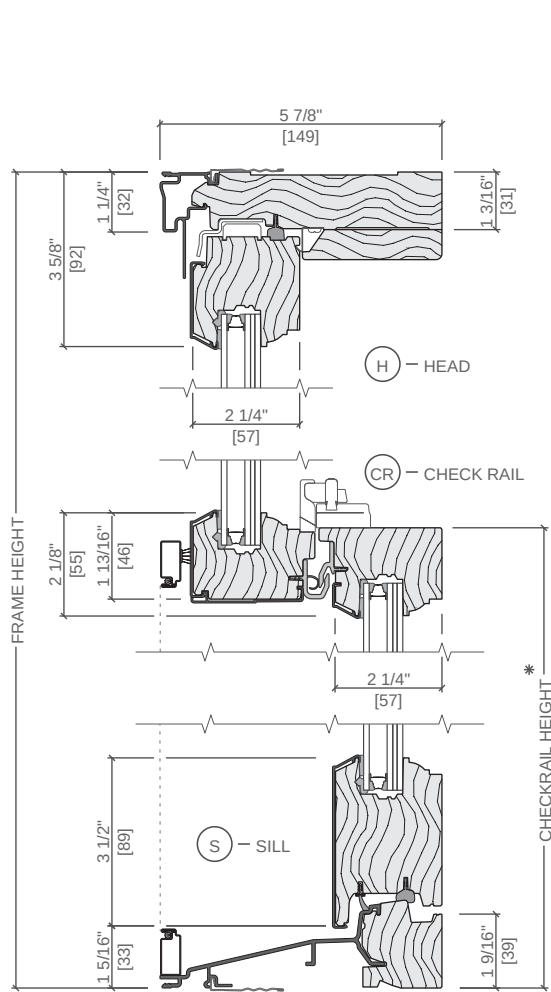
Scale 3" = 1' 0"

All dimensions are approximate.

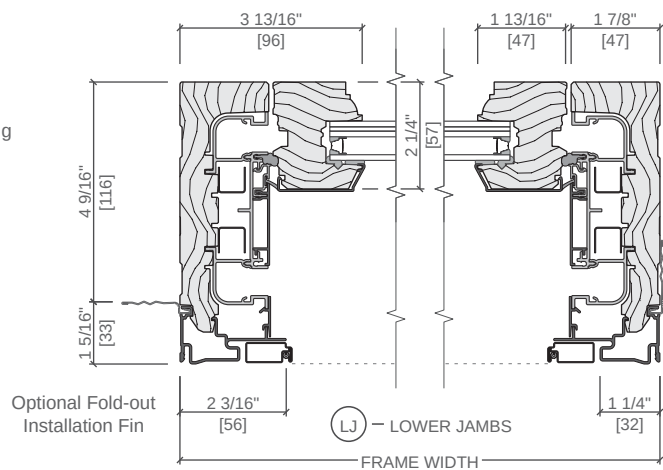
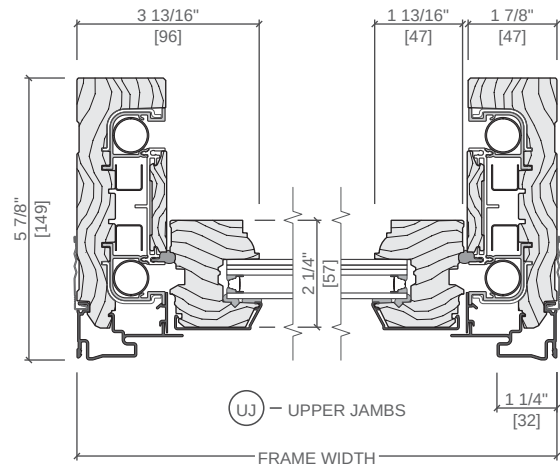
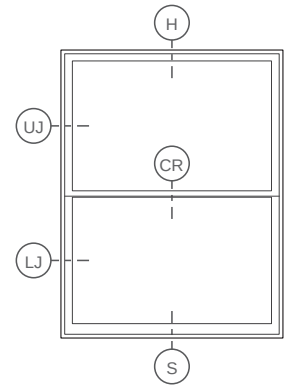


Pella® Reserve™ Impact-Resistant Hung Window

Unit Sections - 13/16" Laminated Insulated Glazing
Pella® Reserve™ Traditional Single-Hung



* Dimension required for ordering units with unequal sash.



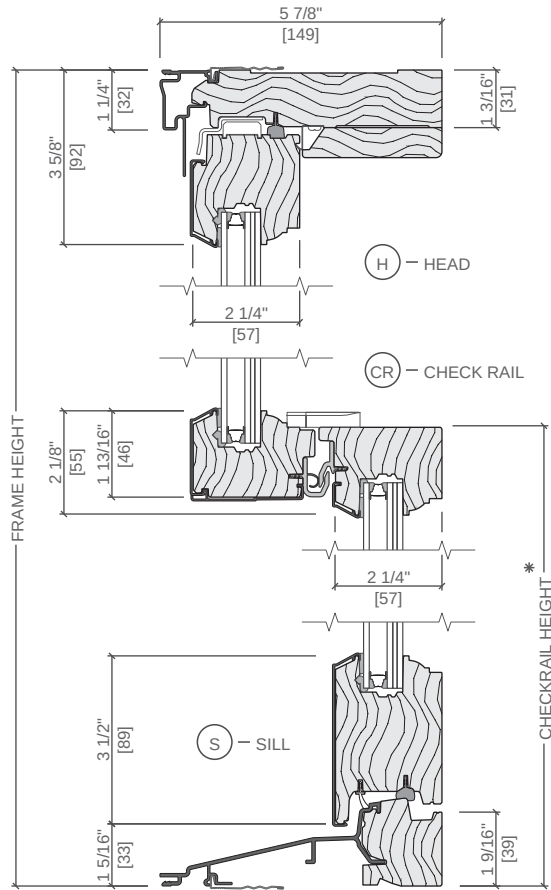
Scale 3" = 1' 0"

All dimensions are approximate.

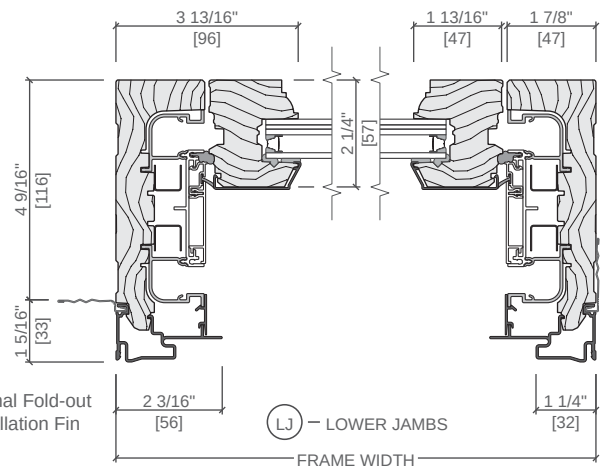
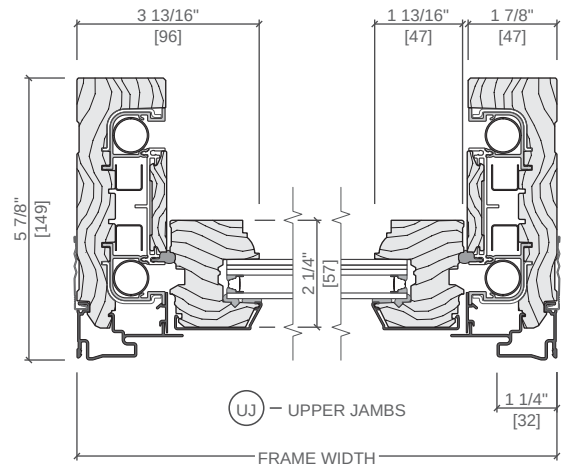
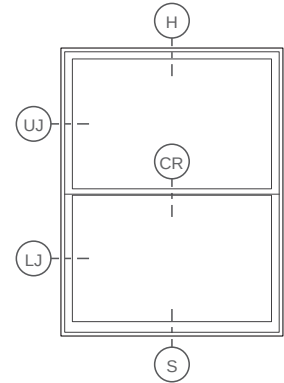


Pella® Reserve™ Impact-Resistant Hung Window

Unit Sections - 13/16" Laminated Insulated Glazing
Pella® Reserve™ Traditional Simulated-Hung



* Dimension required for ordering units with unequal sash.



Scale 3" = 1' 0"

All dimensions are approximate.