



City of Ocala
Growth Management Department
201 S.E. 3rd Street, 2nd Floor
352-629-8421 | www.ocalafl.org

Case File # _____
COA _____ - _____
Meeting Date: _____
Product Approval # _____

Application for a Certificate of Appropriateness (COA)

As required by [Section 94-82\(g\)](#) of the City of Ocala Code of Ordinances, Ocala Historic Preservation Advisory Board (OHPAB) decisions on the COAs will be based on the [Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings](#) the [Ocala Historic Preservation Design Guidelines](#), and the [Ocala Historic Preservation Code](#).

COA Application Procedure:

1. Arrange an informal pre-application conference with Planning staff.
2. Fill out and submit COA application and required material to Planning staff 30 days prior to OHPAB meeting. Please email application packets: historic@ocalafl.org.
3. Attend OHPAB meeting or send a representative with a letter of authorization.
4. Meetings are held the 1st Thursday of each month at 4:00 p.m.
5. Meeting Location: City Council Chambers, 2nd floor of City Hall (110 SE Watula Ave.)

If applicant fails to notify staff and does not attend the meeting, the application may be tabled for one month. If applicant fails to notify staff and does not attend the next monthly meeting, the application may be denied without prejudice.

There is no application fee; however, if work is performed without an approved COA, a fee of \$100 will be assessed.

Parcel #:	2820-046-003	Property Address:	722 NE 2nd St. Ocala, FL 34470
Owner:	Andrew and Samantha Harrison	Owner Address:	722 NE 2nd St. Ocala, FL 34470
Owner Phone #:	954-850-6685	Owner Email:	andrew5180@me.com
Will there be an additional meeting representative? ☐ Yes ☐ No (If yes, representative will need a letter of authorization*)			
If yes, name of representative:			
Rep. Phone #:		Rep. Email:	

Project Type:	☒ Addition ☐ Alteration ☐ Repair	☐ New Construction ☐ Reroof ☐ Relocation	☐ Site Work ☐ Fence ☐ Other _____
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Describe, by list, specific changes you are requesting to do to your property. Include the types of materials to be used, as well as dimensions. A site plan must be provided for additions to buildings, new construction (including garages, sheds, other accessory buildings), fences and site work (including driveways, parking areas and other improvements). The site plan must show setbacks of the proposed new work items from property lines. Attach additional pages as necessary.

- Add a 1 bedroom and 1 bathroom additon to the rear of existing residence
- Exterior siding will be similar to existing
- Change a set of windows to a set of French doors on the rear of the house
- Add a deck to the rear of the house
- - Proposed windows: Pella Reserve traditional wood FL17769
 - Grille/ Muttons will be a New England style to match existing style on home
 - Grille Dimensions will be Ogee profiles in 5/8" with a recess depth approx. 3/8"
- Proposed Doors: Pella Reserve Out swing Traditional wood FL14293
 - Details will be the same as windows to match
- Roof materials: GAF Timberline shingles black/ Charcoal in color; FL10124-R36

Required additional materials for submission:

- ☐ Completed and signed COA application
- ☐ Detailed drawings and specifications for all new materials – windows, doors, siding, roofing materials, fencing etc.
- ☐ Site plan
- ☐ Copy of property deed or proof of ownership
- ☐ Authorization letter for non-property owner representative*
- ☐ For New Construction: a set of building plans, no larger than 11 x 17, for structural changes or new construction. This includes all four elevations with drawn to scale dimensions. *
- ☐ Please list any additional attachments:

Applicant Signature

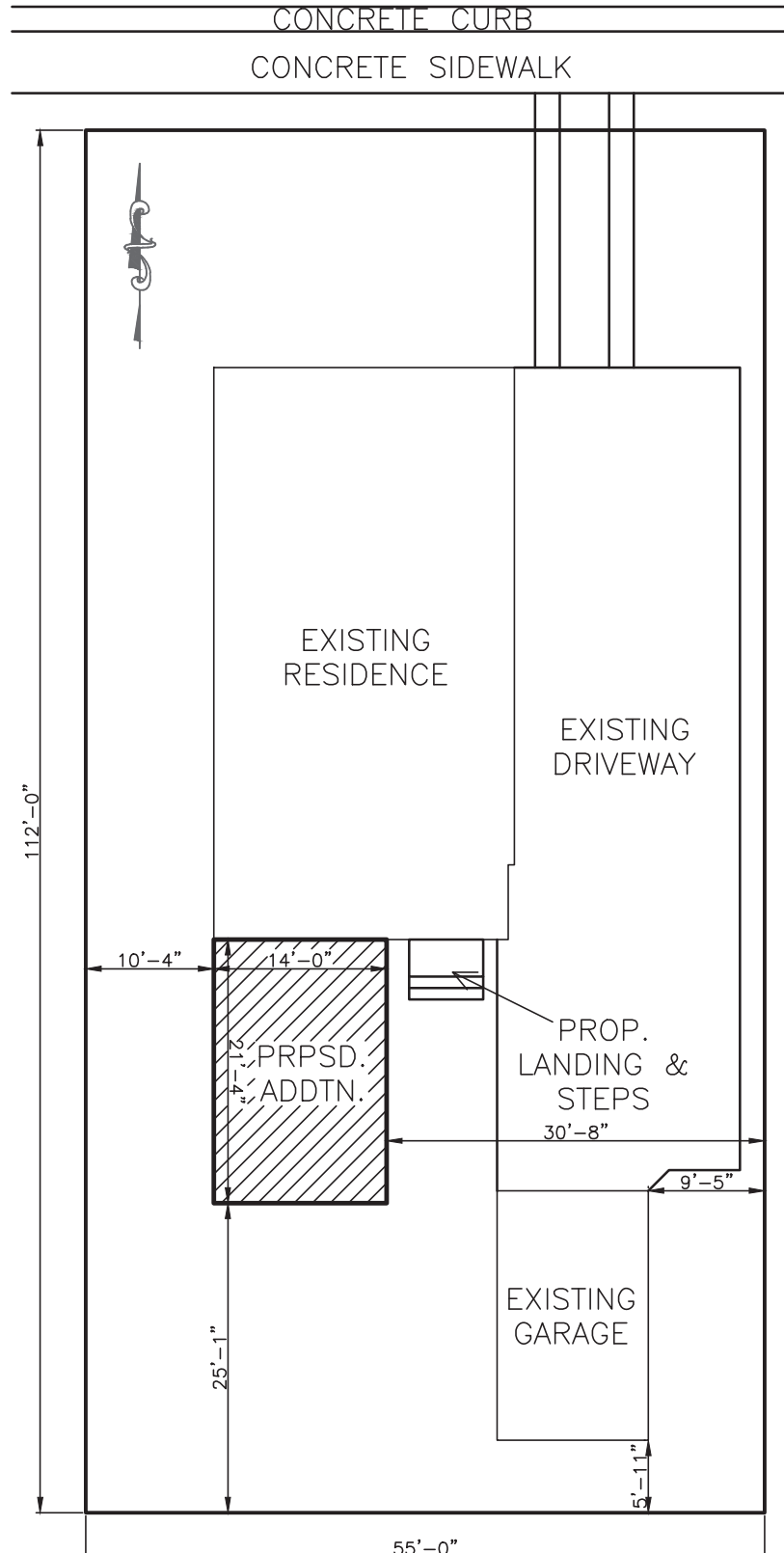
6/6/2026

Date

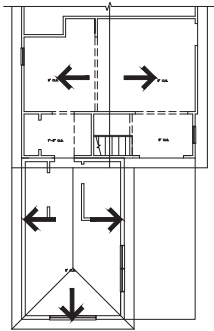
Site Plan

SCALE:
1" = 15'

NE 2ND STREET



Elevations



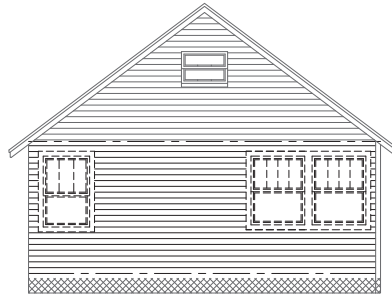
Roof Plan

SCALE: 1/8" = 1'-0"



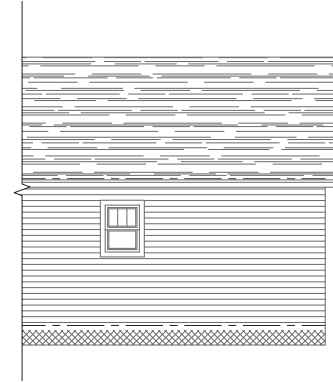
Demo Left Elevation

SCALE: 1/4" = 1'-0"



Demo Rear Elevation

SCALE: 1/4" = 1'-0"



Demo Right Elevation

SCALE: 1/4" = 1'-0"



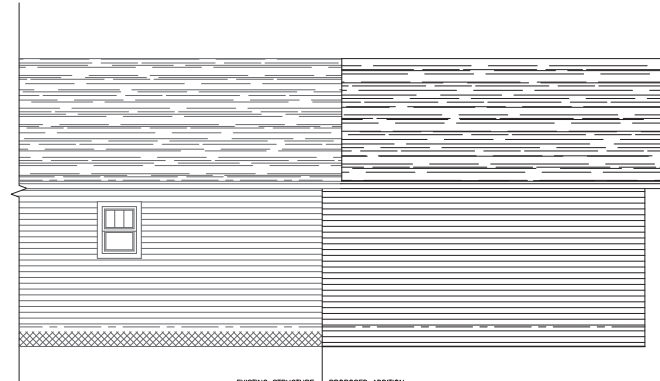
Prop. Left Elevation

SCALE: 1/4" = 1'-0"



Prop. Rear Elevation

SCALE: 1/4" = 1'-0"



Prop. Right Elevation

SCALE: 1/4" = 1'-0"

**BUILDING
IDENTIFICATION NOTE**
MARION COUNTY ORDINANCE #2004-24, REQUIRES
HOUSE NUMBERS INSTALLED AT LEAST 4" HIGH AND
A COLOR THAT CONTRASTS WITH THE COLOR OF
YOUR STRUCTURE. IF THE STRUCTURE IS 50' OR
MORE FROM THE STREET, THE NUMBER SHALL BE
ADDITIONALLY AFFIXED TO A PERMANENT FIXTURE.

CLIENT	DESCRIPTION	DATE
Harrison Residence	1	1/24/2026
772 NE 2nd Street, Ocala, FL 34470		
Marion County		
ELEVATIONS/ROOF PLAN		
D. White Construction LLC		
Phone: 352-234-3430		
dwhite@whiteconst.com		
P.I.D.: 2820-046-003		
CDE PROJ. NO.: 500.20.005		
DESIGNED: J.E.B.	CHECKED: J.E.B.	
SHEET NO.		
S5		

Caliber Design & Engineering LLC
2300 SE 17th STREET
UNIT 1002
OCALA, FL 34471
(352) 769-6296

Photos

COA26-0024; Photos Case File #136; 722 NE 2nd Street





Window Material Information

Pella® Reserve™

Traditional Wood & Clad/Wood



Exquisitely designed windows and doors with unparalleled historical detailing.

Double-Hung Interior



Double-Hung Exterior



- **Easy-to-learn Pella Steady Set® interior installation system**

Pella Steady Set Interior Installation System is a revolutionary, award-winning and safer way to install new construction windows.¹ The simple system is the fastest, most labor efficient wood window installation system with uncompromising quality.² Available on select windows.

- **Historical Details**

Our most historically authentic line of wood windows and patio doors. Featuring through-stile construction, deliberate proportions and intricate profiles. Pella Reserve – Traditional products are the ideal choice for historical renovations and traditional building projects.

- **Authentic hardware**

Complement your project with historically authentic spoon-lock window hardware. Our Antiek casement window hardware is inspired by period furniture to deliver authentic traditional style.

- **Architectural interest**

Pella's Integral Light Technology® grille helps capture the look of true-divided-light without sacrificing energy performance. Further your aesthetic with the putty profile, recreated with historically accurate angles to provide meaningful depth and a realistic shadow. Pella Reserve products offer the industry's deepest sash dimension.

- **Virtually unlimited customization**

If you can dream it, we can build it with our most customizable product line. From extra tall to extra wide, Pella can craft unique windows that complement your aesthetic. Custom sizes, grille patterns and designs, finishes, wood types and glass options are available.

- **Tailor-made solutions**

From preliminary drawings to installation, Pella's expert team of architects, engineers, drafters and consultants can work to deliver custom window and door solutions for your project. Partner with Pella to achieve your unique vision without concessions.

- **Intentional innovation**

The award-winning Integrated Rolscreen® retractable screen preserves aesthetics and the view. It is a double- and single-hung screen that appears when you open the window and rolls away, out of sight, when you close it.

- **Durable interiors and extruded aluminum exteriors**

To help you save time on the jobsite, interior finish options are available in a variety of colors, or primed and ready-to-paint. To complement your exterior aesthetic, choose from our carefully curated color palette or define your own custom color for your project.

- **ENERGY STAR® certified³**

Pella wood products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states.

- **Testing beyond requirements**

All wood products and testing are not created equal. Pella raises the bar on industry standard testing and beyond to deliver long-lasting products and reduced callbacks. Every Pella wood window and door passes 5, on average, quality checks before it arrives on the jobsite.

- **Best limited lifetime warranty⁴**

Pella Reserve products are covered by the best limited lifetime warranty in the business for wood windows and patio doors.⁴

Available in these window and patio door styles:



Special shape windows also available.

^{1,2,3,4} See back cover for disclosures.

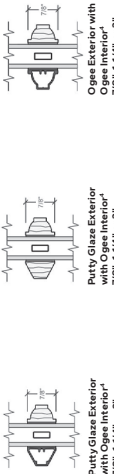
Product Specifications

Window & Patio Door Styles		Min. Width	Min. Height	Max. Width	Max. Height	Performance Values			Frame / Install
						U-Factor	SHGC	STC	
Awning		13-3/4"	13-3/4"	59"	59"	LC30 - CW50	0.25-0.29	0.18-0.47	27-35
Casement		13-3/4"	13-3/4"	47"	108"	R35-CW50	0.25-0.29	0.18-0.47	27-34
Fixed Casement		10"	10"	14-4"	144"	R35-CW50	0.25-0.29	0.18-0.47	27-35
Double-Hung		14"	24-3/8"	48"	96"	CW30-CW50	0.25-0.30	0.19-0.53	28-35
Precision Fit Double-Hung		13-3/2"	23-3/4"	48"	84"	CW40-CW50	0.25-0.31	0.19-0.53	26-30
Monumental Hung		13-3/4"	24"	72"	144"	LC25-CW50	0.25-0.30	0.17-0.47	29-34
In-Swing Hinged Patio Door (Single)		18"	36"	48"	119-1/2"	LC40-LC55	0.25-0.29	0.14-0.40	31-35
In-Swing Hinged Patio Door (Double)		36"	36"	96"	119-1/2"	LC40-LC55	0.25-0.29	0.14-0.40	31-35
Out-Swing Hinged Patio Door (Single)		18"	36"	48"	119-1/2"	R50-LC70	0.25-0.30	0.14-0.39	30-36
Out-Swing Hinged Patio Door (Double)		36"	36"	96"	119-1/2"	R50-LC70	0.25-0.30	0.14-0.39	30-36
Sliding Patio Door (OX, XO)		60"	74"	120"	120"	R20-LC50	0.26-0.31	0.20-0.51	0.28-0.33
Sliding Patio Door (OXO)		90"	74"	180"	120"	R20-LC35	0.26-0.31	0.20-0.51	—
Sliding Patio Door (OXXO)		117"	74"	237"	120"	R20-LC35	0.26-0.31	0.20-0.51	—
Multi-Slide Patio Door		40-1/4"	50-1/2"	701-3/8"	119-1/2"	R15-LC25 ¹	0.30-0.36	0.15-0.46	31
Bifold Patio Door		31-1/4"	55-1/2"	312"	119-1/2"	R15-LC25 ¹	0.26-0.44	0.13-0.45	—

Window sizes available in 1/8" increments
Special sizes available. For more information regarding performance, visit [Pella.com/performance](#). For more information regarding frame and installation types, visit [PellaADM.com](#).

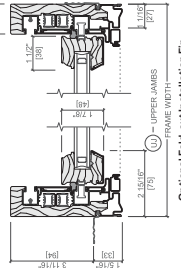
Grilles

Choose the look of true divided light without sacrificing energy performance.



Cross Sections

The double-hung cross sections provide visual reference to the historic putty exterior profile and traditional, beveled Ogee interior that add architectural interest to your project.



^{1,2} See back cover for disclosures.

Window Hardware

Get a timeless look with authentic styles in classic finishes.

Classic Collection

Finishes:

Champagne

White

Brown

Matte Black

Oh-Rubbed Bronze

Satin Nickel

Satin Brass

Create a distinct and charming look with distressed finishes.

Rustic Collection

Finishes:

Oh-Rubbed Bronze

Distressed Nickel

Select from popular designs and finishes to suit every style.

Essential Collection

Finishes:

Champagne

White

Brown

Matte Black

Oh-Rubbed Bronze

Satin Nickel

Satin Brass

Patio Door Hardware

Choose timeless pieces, created in collaboration with Baldwin® Hardware, for a look that will never go out of style.

Classic Collection

Finishes:

Matte Black

Oh-Rubbed Bronze

Satin Nickel

Satin Brass

Essential Collection

Finishes:

Champagne

White

Brown

Matte Black

Oh-Rubbed Bronze

Satin Nickel

Satin Brass

Additional hardware collections available. Visit [PellaADM.com](#) for more information.

^{1,2} See back cover for disclosures.

Colors

Wood Types

Choose the wood species that best complements your project's interior.

Custom solutions:



Pine



Douglas Fir



Mahogany



White Oak



Red Oak



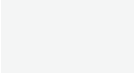
Cherry



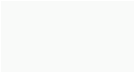
Maple

Prefinished Pine Interior Colors

Custom interior finishes, unfinished or primed and ready-to-paint are also available.



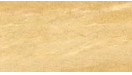
White



Bright White



Linen White



Natural



Golden Oak



Early American



Provincial



Dark Mahogany



Charcoal



Black

Extruded Aluminum-Clad Exterior Colors

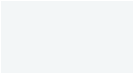
Our low-maintenance EnduraClad® exterior finish resists fading. Take durability one step further with EnduraClad Plus which also resists chalking and corrosion.⁷



Custom colors are also available.



Black



White



Brown



Fossil



Iron Ore



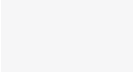
Portobello



Putty



Almond



Classic White



Brick Red



Hartford Green



Pearl Gray



Soft Linen



Satin Steel



Matte Gray



Wolf Gray



Spice Red



Sage



Frost Blue



Blue Ash

Screens

Rolscreen®

Rolscreen soft-closing retractable screens roll out of sight when not in use. Available on casement windows.

Integrated Rolscreen®

A concealed retractable screen that moves seamlessly with the sash of a single- or double-hung window — appearing when you open the window and rolling out of sight when you close it.

TuffScreen® by Phifer®

The TuffScreen® is 2.5x stronger than a standard screen.⁸ It is tear, puncture and damage resistant, standing up to pets, children and harsh weather. Available on sliding patio doors.

⁷All trademarks are property of their respective owners

Flat

InView™ screens are clearer than conventional screens and come standard.



The Best Limited Lifetime Warranty in the Industry
We know your reputation matters and you stake your reputation on quality, dependable products. That's why we have the best limited lifetime warranty in the industry for wood windows and patio doors.²

¹ Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.

² Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty or contact Pella Customer Service.

³ Ratings are contingent on product configurations.

⁴ Color-matched to your product's interior and exterior color. Offering may vary by product type. See Pella sales representative for details.

⁵ Flush multi-slide handle is a Pella exclusive design.

⁶ Flush multi-slide handle is not available in Champagne.

⁷ EnduraClad Plus protective finish is not available with all colors. See your local Pella sales representative for availability.

⁸ Based on the composite results of a 5-panel strength analysis comparing TuffScreen and standard screening.



Product Selection Guide

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Document Navigation Tips:

Items listed in the table of contents above are active links that will take you to the corresponding page.

The Pella logo on each page is a link back to this table of contents.

Bookmarks are also included in this PDF document and are available as an additional navigation option.

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_PR-Clad.pdf

CSI Specs

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

https://media.pella.com/professional/adm/Wood-CSI_Specs/08552-R.rtf

AIA Masterspec

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

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

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>

Wood: <https://media.pella.com/professional/adm/Clad-Wood/PR-DoubleHung-W.rtf>

Size Tables

(requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/ASCDHEV_D.dwg

CAD cross sections

(requires appropriate CAD software to read and use):

Clad: https://media.pella.com/professional/adm/Clad-Wood/ASRM5DH3_D.dwg

Wood: <https://media.pella.com/professional/adm/Clad-Wood/ASWM4DHRPT3b.dwg>

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

Sketchup

(requires appropriate software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/PellaSKP_PellaReserve_Traditional_Double-Hung.zip

Combination Recommendations:

https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf

Installation Details:

https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf

Impact-Resistant Double-Hung, Complete Product Information:

https://media.pella.com/professional/adm/Clad-Wood/Pella-ImpactResistant_DoubleHung.pdf

Bay/Bow Details:

https://media.pella.com/professional/adm/Clad-Wood/Pella-Wood_BayBowWindows.pdf

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Pella® Reserve™ Traditional Hung Window

Size and Performance Data

Air/Water/Structural Performance₁

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
	Clear (no Low-E coating)
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.

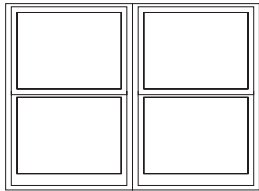


Combination Assemblies - Rectangular Units

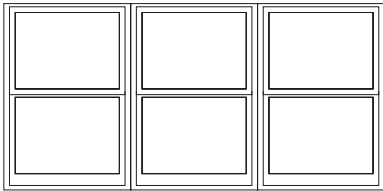
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a combination or reinforcing mullion.

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.

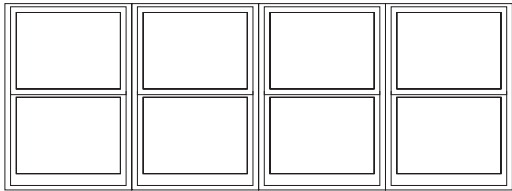
Contact your local Pella sales representative for more information.



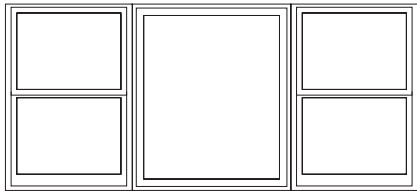
Two-Wide



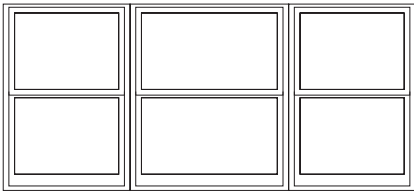
Three-Wide Equal



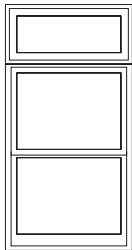
Four-Wide Equal



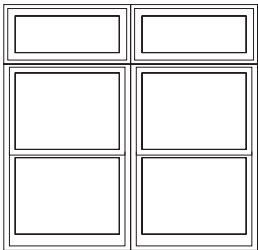
Center Fixed with Flankers



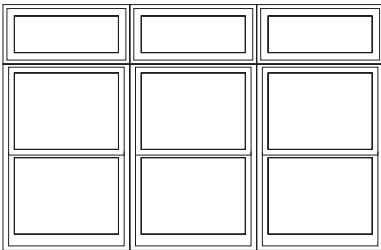
Three-Wide Unequal



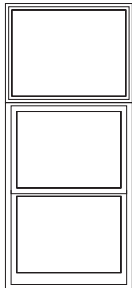
Transom over
Single



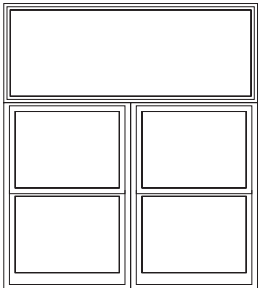
Two-Wide Transoms over
Two-Wide



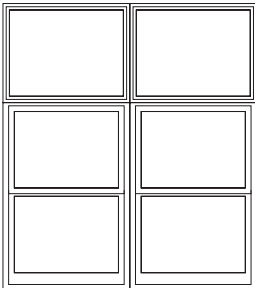
Three-Wide Transoms over
Three-Wide



Clad Frame over
Single



Single Clad Frame over
Two-Wide



Two Wide Clad Frame over
Two-Wide



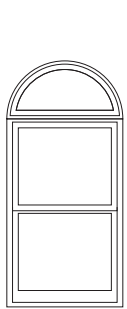
Pella® Reserve™ Traditional Hung Window

Combination Assemblies - Arch Top Units

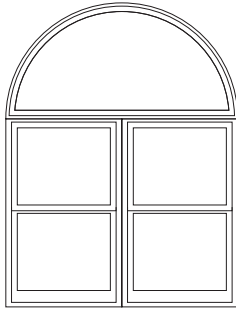
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a combination or reinforcing mullion.

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.

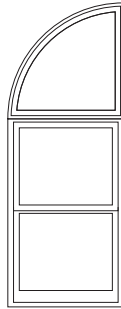
Contact your local Pella sales representative for more information.



Half Circle over
Single



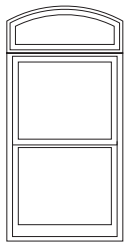
Half Circle over
Two-Wide



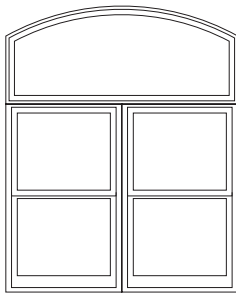
Left Quarter Circle
over Single



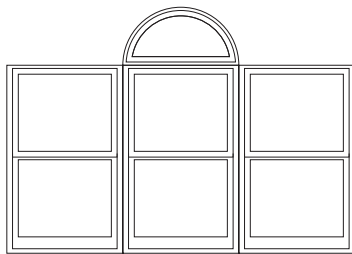
Right Quarter Circle
over Single



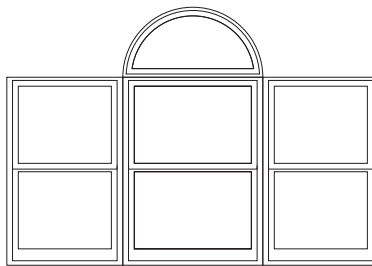
Arch Head over
Single



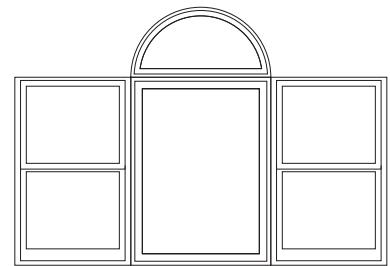
Arch Head over
Two-Wide



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	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					

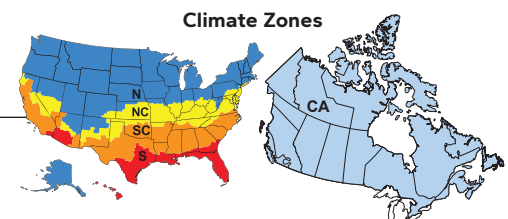
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(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
Tinted Glazing										N	NC	SC	S	CA	
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						
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						

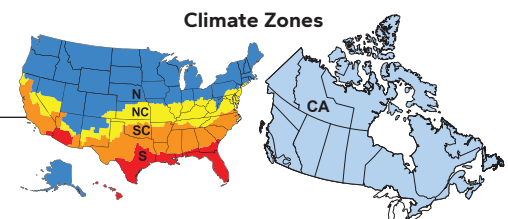
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Pella® Reserve™ Traditional Hung Window

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					

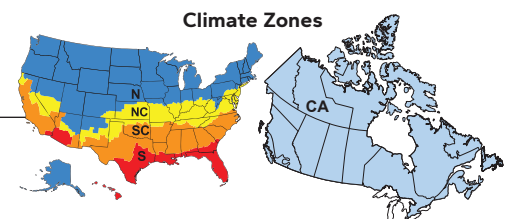
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(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
Tinted Glazing										N	NC	SC	S	CA	
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						

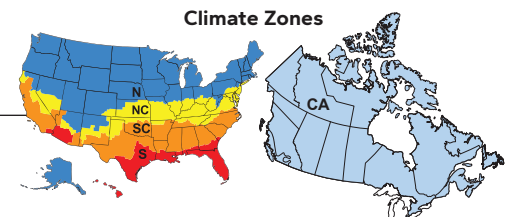
R-Value = 1/U-Factor
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(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

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Non Rectangular Unit thermal values will vary slightly.

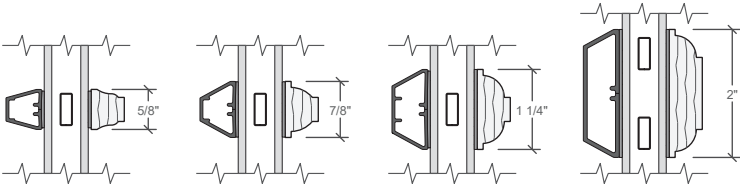




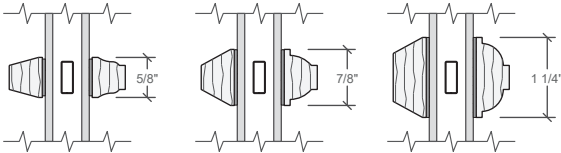
Grille Profiles

Traditional Style Collection - Integral Light Technology®

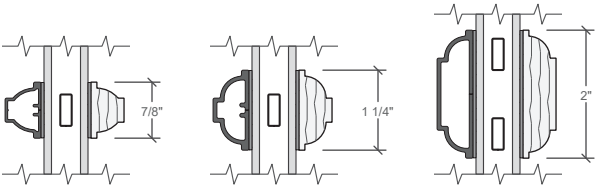
Putty Glaze and Ogee Grilles
Clad Exterior - Wood Interior



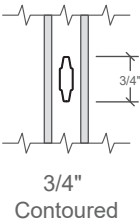
Putty Glaze and Ogee Grilles
Wood Exterior - Wood Interior



Ogee Grilles
Clad Exterior - Wood Interior



Grilles-Between-the-Glass



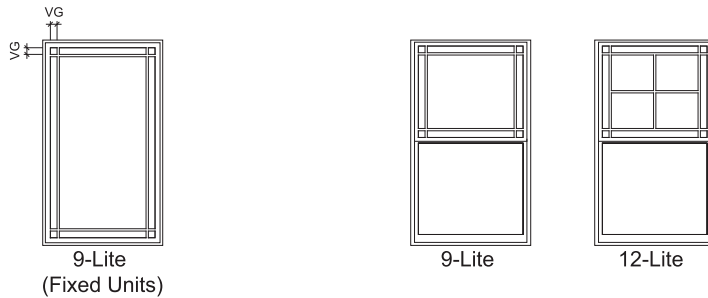
Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



Grille Patterns

Integral light technology® Grilles

Prairie Lite Patterns

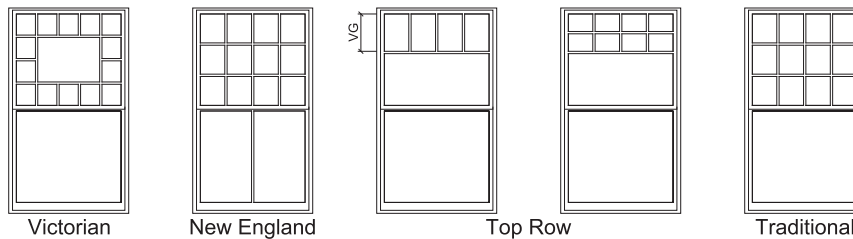


Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

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

Available in all standard and special sizes.

Other Available Patterns

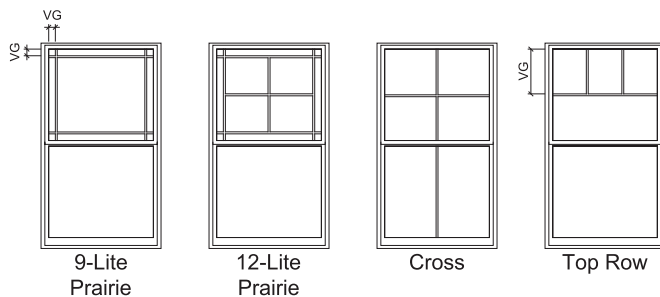


VG = Visible Glass

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

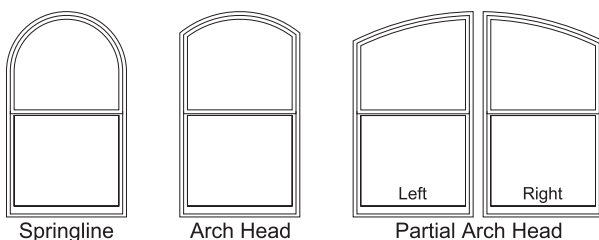
- Minimum DH frame height 35".

- 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.





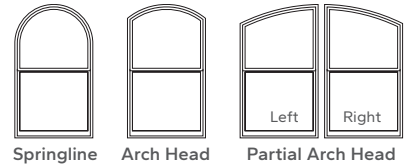
Pella® Reserve™ Traditional Hung Window

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	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"	
(375) (356)									
(451) (432)									
(654) (635)									
Vent Units									
(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)									
(1 975) (1 956)									
(2 153) (2 134)									

Not to scale.

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



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

For clad and wood units with 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.



Pella® Reserve™ Traditional Hung Window

Size Tables - Fixed

Fixed Units				
Opening	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
	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)	 4135	 4735	 5335	 5935
(1 060) (1 041)	 4141	 4741	 5341	 5941
(1 213) (1 194)	 4147	 4747	 5347	 5947
(1 365) (1 346)	 4153	 4753	 5353	 5953
(1 467) (1 448)	 4157	 4757	 5357	 5957
(1 518) (1 499)	 4159	 4759	 5359	 5959
(1 670) (1 651)	 4165	 4765	 5365	 5965
(1 822) (1 803)	 4171	 4771	 5371	 5971

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)	 VG2141	 VG2541	 VG2941	 VG3341	 VG3741	 VG4141	 VG4541	 VG4841
(1 213) (1 194)	 VG2147	 VG2547	 VG2947	 VG3347	 VG3747	 VG4147	 VG4547	 VG4847
(1 365) (1 346)	 VG2153	 VG2553	 VG2953	 VG3353	 VG3753	 VG4153	 VG4553	 VG4853
(1 467) (1 448)	 VG2157	 VG2557	 VG2957	 VG3357	 VG3757	 VG4157	 VG4557	 VG4857
(1 518) (1 499)	 VG2159	 VG2559	 VG2959	 VG3359	 VG3759	 VG4159	 VG4559	 VG4859
(1 670) (1 651)	 VG2165	 VG2565	 VG2965	 VG3365	 VG3765	 VG4165	 VG4565	 VG4865
(1 822) (1 803)	 VG2171	 VG2571	 VG2971	 VG3371	 VG3771	 VG4171	 VG4571	 VG4871
(1 822) (1 803)	 VG2177	 VG2577	 VG2977	 VG3377	 VG3777	 VG4177	 VG4577	 VG4877

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.

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 sub sill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with 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"							
		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
(451) (432)	1' 5 3/4"							
		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
(654) (635)	2' 1 3/4"							
		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"							
		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)	3' 2 1/4"							
		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)	3' 6 1/4"							
		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"							
		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"							
		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"							
		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"							
		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"							
		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 E1	39.5 x 57.5 E	41.5 x 57.5 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.

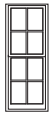
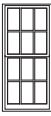
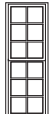
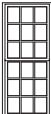
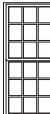
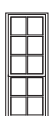
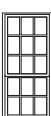
Clear opening (egress) information does not take into consideration the addition of a Roloscreen (or any other accessory) to the product. Consult your local building code to ensure products with Roloscreens meet egress requirements.

Not to scale.

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



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)	5' 0 1/4"					 E ₁	 E	 E
	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
	5' 2 1/4"				 E ₁	 E	 E	 E
	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"				 E ₁	 E	 E	 E
	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"				 E	 E	 E	 E
	5' 11 1/2"	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"							
		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
	3' 10 1/4"							
		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
	4' 0 1/4"							
		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
	4' 4 1/4"							
		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"							
		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
	4' 10 1/4"							
		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
	5' 0 1/4"							
		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
	5' 2 1/4"							
		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"							
		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
	5' 10 1/4"							
		23.5 x 69.5	27.5 x 69.5	29.5 x 69.5	31.5 x 69.5	35.5 x 69.5	39.5 x 69.5	41.5 x 69.5
	6' 0 1/4"							
		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
	6' 4 1/4"							
		23.5 x 75.5	27.5 x 75.5	29.5 x 75.5	31.5 x 75.5	35.5 x 75.5	39.5 x 75.5	41.5 x 75.5

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 Roloscreen (or any other accessory) to the product. Consult your local building code to ensure products with Roloscreens meet egress requirements.

Not to scale.

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



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 "					(1 530) (1 511)	5' 0 ¹ / ₄ "				
	3' 2 ¹ / ₄ "						5' 2 ¹ / ₄ "				
	3' 6 ¹ / ₄ "						5' 1 ¹ / ₂ "				
	3' 10 ¹ / ₄ "						5' 6 ¹ / ₄ "				
	4' 0 ¹ / ₄ "						5' 5 ¹ / ₂ "				
	4' 4 ¹ / ₄ "						6' 0 ¹ / ₄ "				
	4' 6 ¹ / ₄ "										
	4' 10 ¹ / ₄ "										



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" (1 022)	17" (432)
Tallest Unit Frame Size	96" (2 438)	81" (2 057)	71" (1 803)
Unit Frame Width Range	14" to 48" (356 to 1 219)	14" to 48" (356 to 1 219)	17" to 59" (432 to 1 499)

Opening Dimensions

Clad Exterior Units:

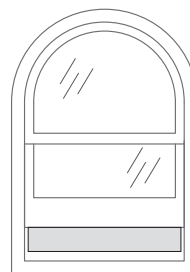
Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:

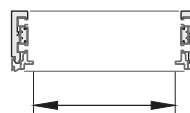
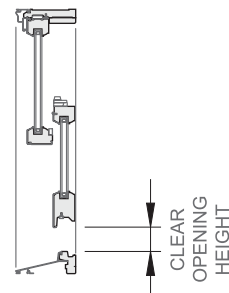
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

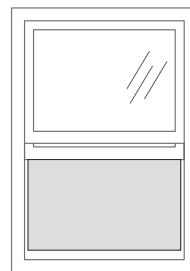
For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.



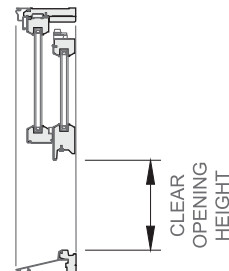
Shaded portion shows vent area.



CLEAR OPENING
WIDTH



Shaded portion shows vent area.



Equal Sash Rectangular Only

	Vent Units	Fixed and Transom Units
Visible Glass	Width = Frame - 5.647" Height = (Frame - 8.681") ÷ 2	Width = Frame - 5.75" Height = Frame - 5.75"
Actual Glass	Width = Frame - 4.375" Height = (Frame - 5.983") ÷ 2	Width = Frame - 4.375" Height = Frame - 4.375"
Clear Opening*	COW = Frame Width - 3.4375" COH = (Frame Height ÷ 2) - 4.4375"	— —
Vent Area Ft²	(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 Ft²	Visible Glass Ft²	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 Ft²	Visible Glass Ft²	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	E1	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 Ft²	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 Ft²	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 Ft²	Visible Glass Ft²	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

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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

Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	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 Ft²	Visible Glass Ft²	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 Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
31.5 x 35.5		27-13/16	13-5/16	2.6	4.8	2.5	3	CW50	CW45
31.5 x 37.5		27-13/16	14-5/16	2.8	5.2	2.5	3	CW50	CW45
31.5 x 41.5		27-13/16	16-5/16	3.2	5.9	2.5	3	CW50	CW45
31.5 x 45.5		27-13/16	18-5/16	3.5	6.6	2.5	3	CW50	CW45
31.5 x 47.5		27-13/16	19-5/16	3.7	7.0	2.5	3	CW50	CW45
31.5 x 51.5		27-13/16	21-5/16	4.1	7.7	2.5	3	CW50	CW45
31.5 x 53.5		27-13/16	22-5/16	4.3	8.0	2.5	3	CW50	CW45
31.5 x 57.5		27-13/16	24-5/16	4.7	8.8	2.5	3	CW50	CW45
31.5 x 59.5		27-13/16	25-5/16	4.9	9.1	2.5	3	CW50	CW45
31.5 x 61.5	E ₁	27-13/16	26-5/16	5.1	9.5	2.5	3	CW50	CW45
31.5 x 65.5	E ₁	27-13/16	28-5/16	5.5	10.2	2.5	3	CW50	CW45
31.5 x 71.5	E	27-13/16	31-5/16	6.0	11.3	2.5	3	CW50	CW45
35.5 x 35.5		31-13/16	13-5/16	2.9	5.6	2.5	3	CW50	CW45
35.5 x 37.5		31-13/16	14-5/16	3.2	6.0	2.5	3	CW50	CW45
35.5 x 41.5		31-13/16	16-5/16	3.6	6.8	2.5	3	CW50	CW45
35.5 x 45.5		31-13/16	18-5/16	4.0	7.6	2.5	3	CW50	CW45
35.5 x 47.5		31-13/16	19-5/16	4.3	8.0	2.5	3	CW50	CW45
35.5 x 51.5		31-13/16	21-5/16	4.7	8.9	2.5	3	CW50	CW45
35.5 x 53.5		31-13/16	22-5/16	4.9	9.3	2.5	3	CW50	CW45
35.5 x 57.5	E ₁	31-13/16	24-5/16	5.4	10.1	2.5	3	CW50	CW45
35.5 x 59.5	E ₁	31-13/16	25-5/16	5.6	10.5	2.5	3	CW50	CW45
35.5 x 61.5	E	31-13/16	26-5/16	5.8	10.9	2.5	3	CW50	CW45
35.5 x 65.5	E	31-13/16	28-5/16	6.3	11.8	2.5	3	CW50	CW45
35.5 x 71.5	E	31-13/16	31-5/16	6.9	13.0	2.5	3	CW50	CW45
39.5 x 35.5		35-13/16	13-5/16	3.3	6.3	2.5	3	CW50	CW45
39.5 x 37.5		35-13/16	14-5/16	3.6	6.8	2.5	3	CW50	CW45
39.5 x 41.5		35-13/16	16-5/16	4.1	7.7	2.5	3	CW50	CW45
39.5 x 45.5		35-13/16	18-5/16	4.6	8.7	2.5	3	CW50	CW45
39.5 x 47.5		35-13/16	19-5/16	4.8	9.1	2.5	3	CW50	CW45
39.5 x 51.5		35-13/16	21-5/16	5.3	10.1	2.5	3	CW50	CW45
39.5 x 53.5		35-13/16	22-5/16	5.5	10.5	2.5	3	CW50	CW45
39.5 x 57.5	E	35-13/16	24-5/16	6.0	11.5	2.5	3	CW50	CW45
39.5 x 59.5	E	35-13/16	25-5/16	6.3	11.9	2.5	3	CW50	CW45
39.5 x 61.5	E	35-13/16	26-5/16	6.5	12.4	2.5	3	CW50	CW45
39.5 x 65.5	E	35-13/16	28-5/16	7.0	13.4	2.5	3	CW50	CW45
39.5 x 71.5	E	35-13/16	31-5/16	7.8	14.8	2.5	3	CW45	CW45
41.5 x 35.5		37-13/16	13-5/16	3.5	6.7	2.5	3	CW50	CW45
41.5 x 37.5		37-13/16	14-5/16	3.8	7.2	2.5	3	CW50	CW45
41.5 x 41.5		37-13/16	16-5/16	4.3	8.2	2.5	3	CW50	CW45
41.5 x 45.5		37-13/16	18-5/16	4.8	9.2	2.5	3	CW50	CW45
41.5 x 47.5		37-13/16	19-5/16	5.1	9.7	2.5	3	CW50	CW45
41.5 x 51.5		37-13/16	21-5/16	5.6	10.7	2.5	3	CW50	CW45
41.5 x 53.5		37-13/16	22-5/16	5.9	11.2	2.5	3	CW50	CW45
41.5 x 57.5	E	37-13/16	24-5/16	6.4	12.2	2.5	3	CW50	CW45
41.5 x 59.5	E	37-13/16	25-5/16	6.6	12.7	2.5	3	CW50	CW45
41.5 x 61.5	E	37-13/16	26-5/16	6.9	13.1	2.5	3	CW50	CW45
41.5 x 65.5	E	37-13/16	28-5/16	7.4	14.1	2.5	3	CW45	CW45
41.5 x 71.5	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 Ft²	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 Ft²	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 Ft²	Visible Glass Ft²	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 Ft²	Visible Glass Ft²	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 [Standard]₁ [Custom]₁.

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.

(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.

(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.

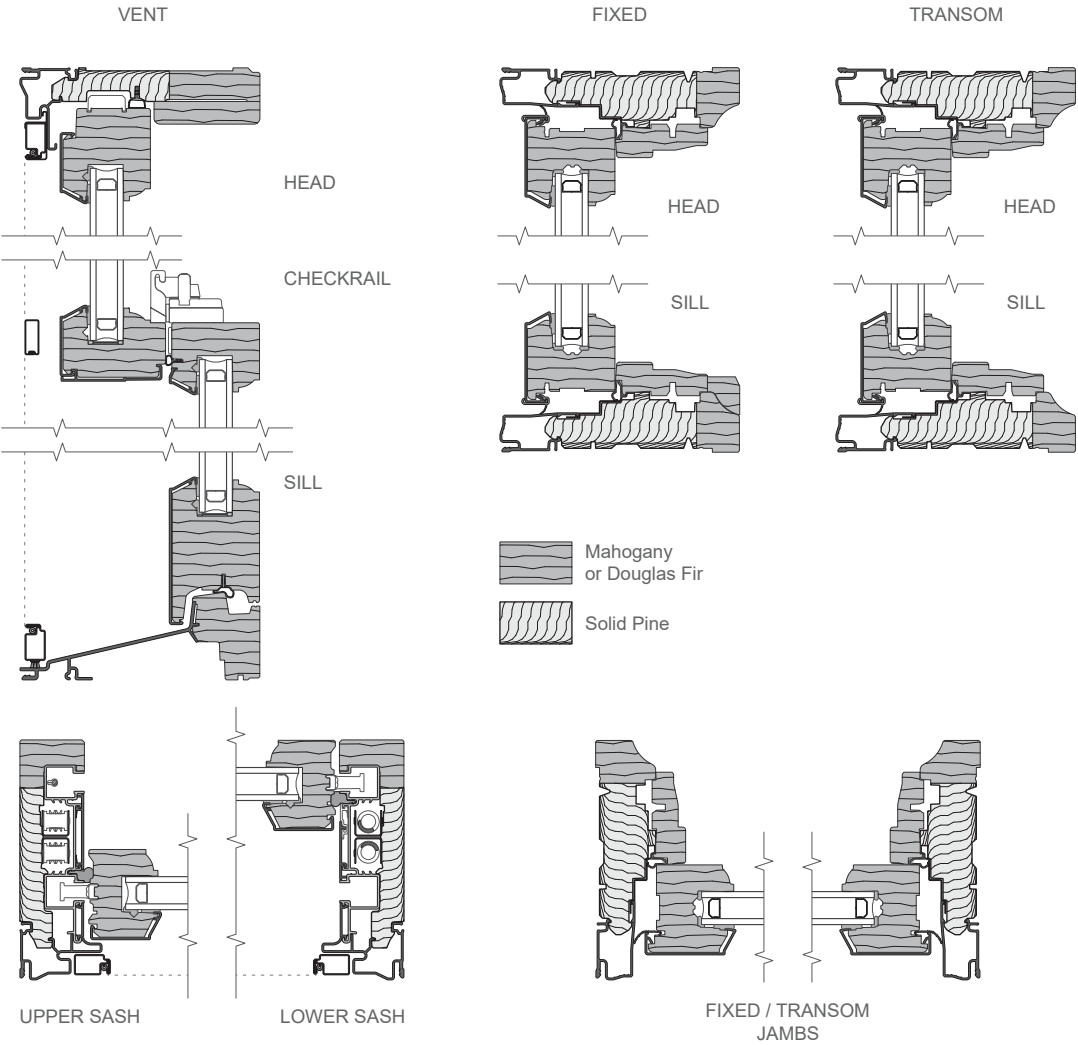
(4) Full screens are available on units ≤ 96" height.

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



Pella® Reserve™ Traditional Hung Window

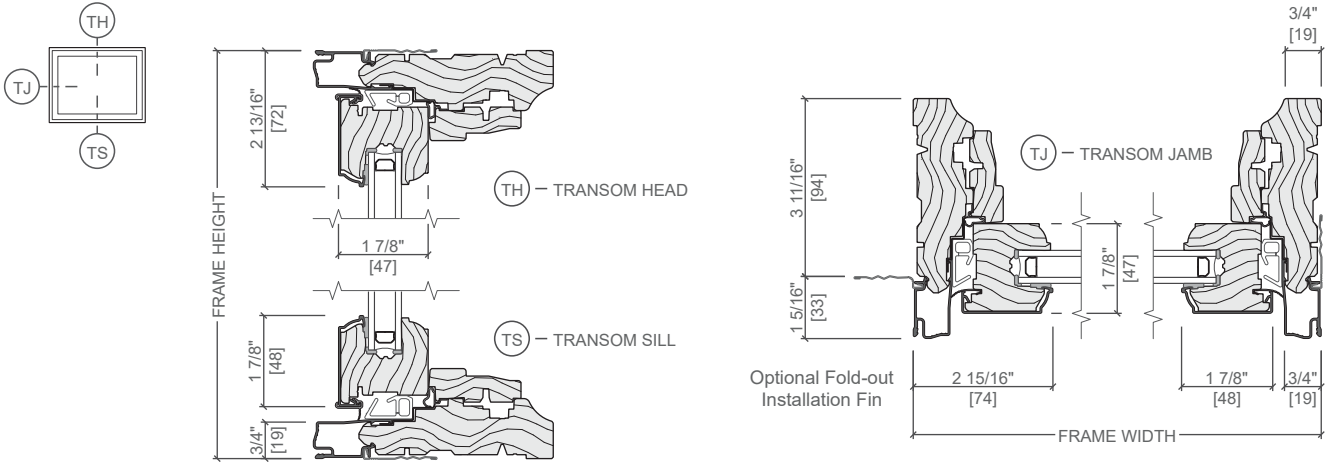
Unit Sections – Wood Collection



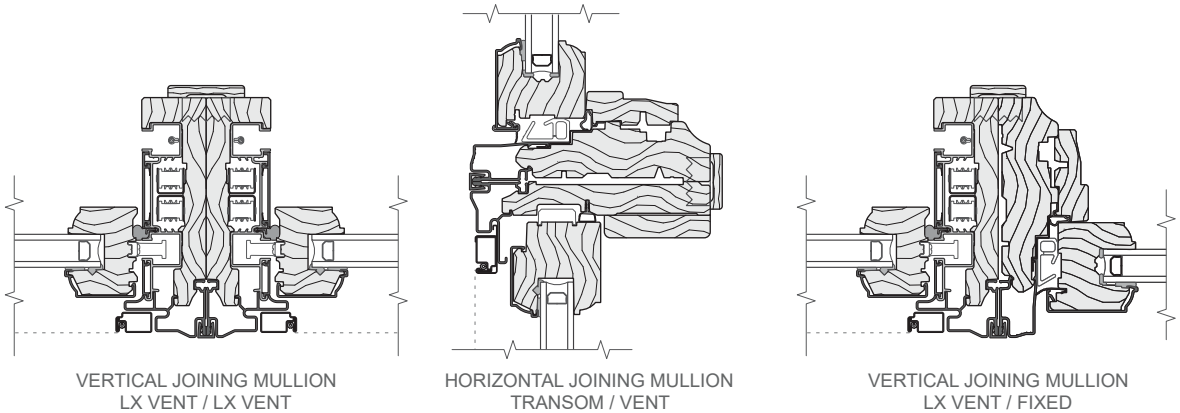


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



Typical Joining Mullions



Scale 3" = 1' 0"

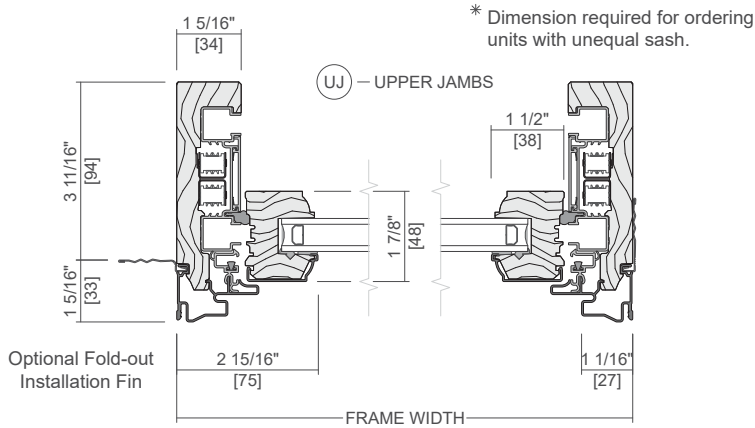
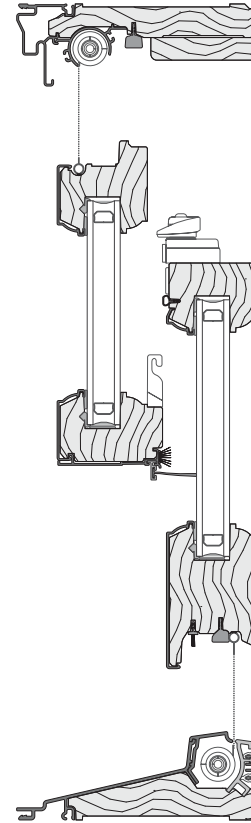
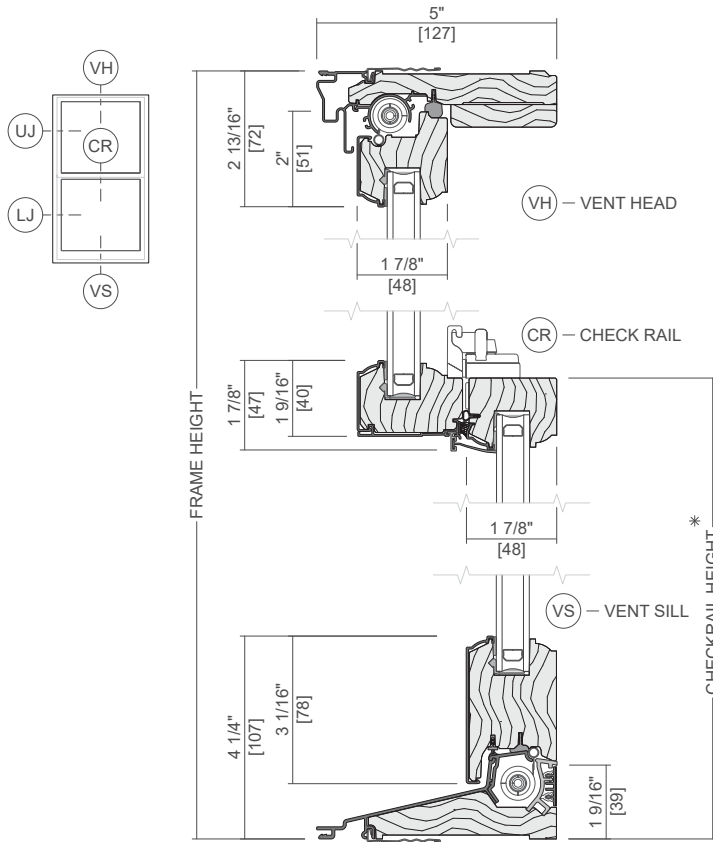
All dimensions are approximate.

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

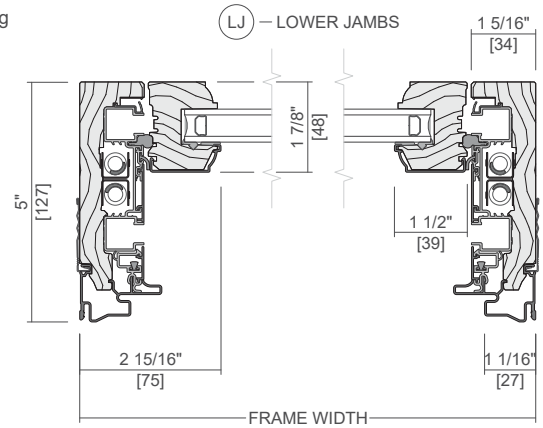


Pella® Reserve™ Traditional Hung Window

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



* Dimension required for ordering units with unequal sash.



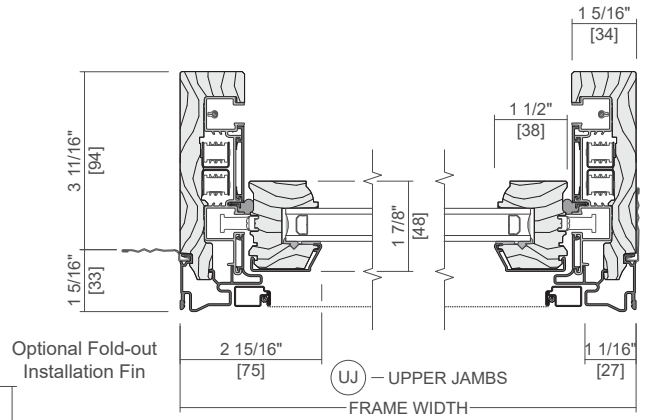
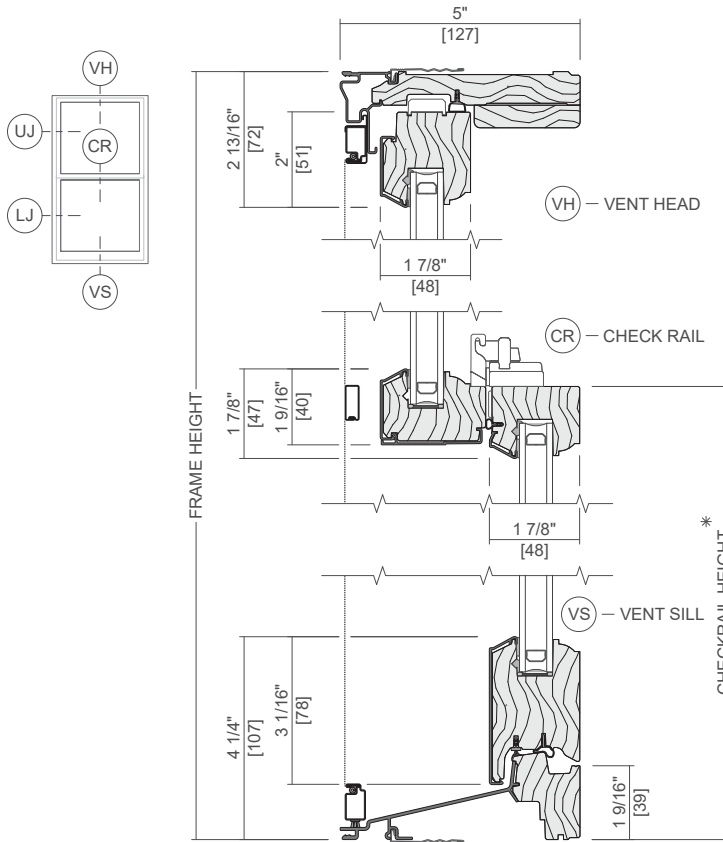
Scale 3" = 1' 0"

All dimensions are approximate.

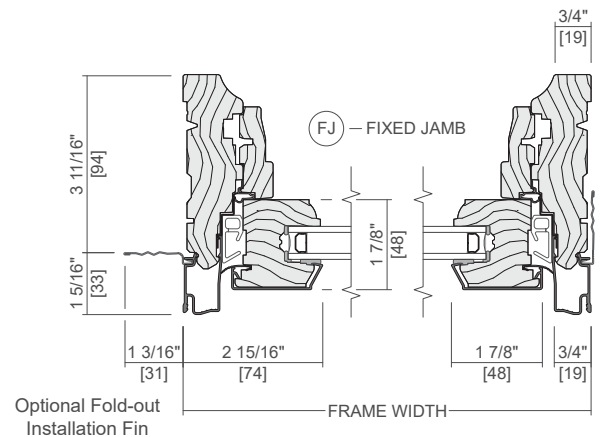
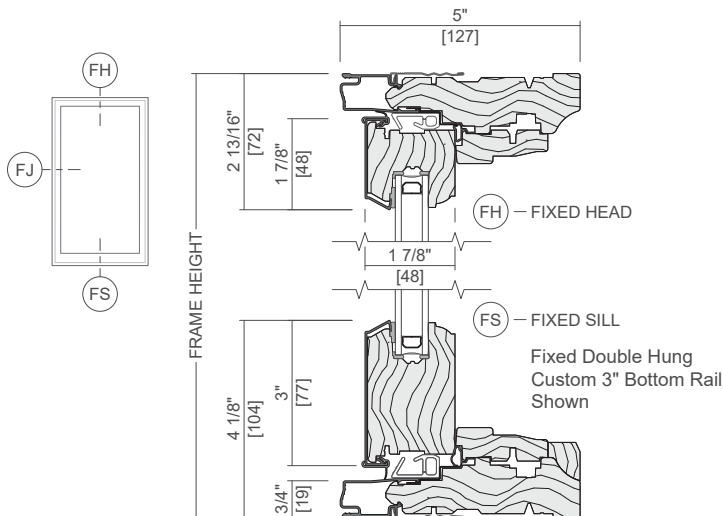
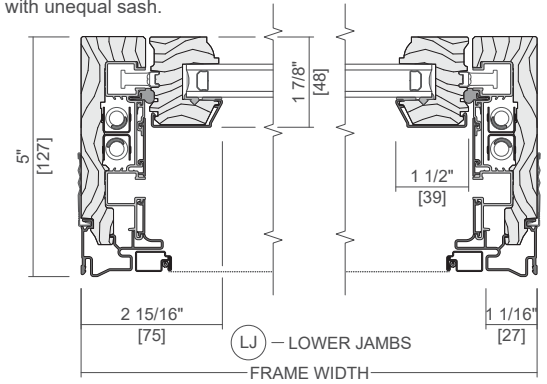


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



* Dimension required for ordering units with unequal sash.



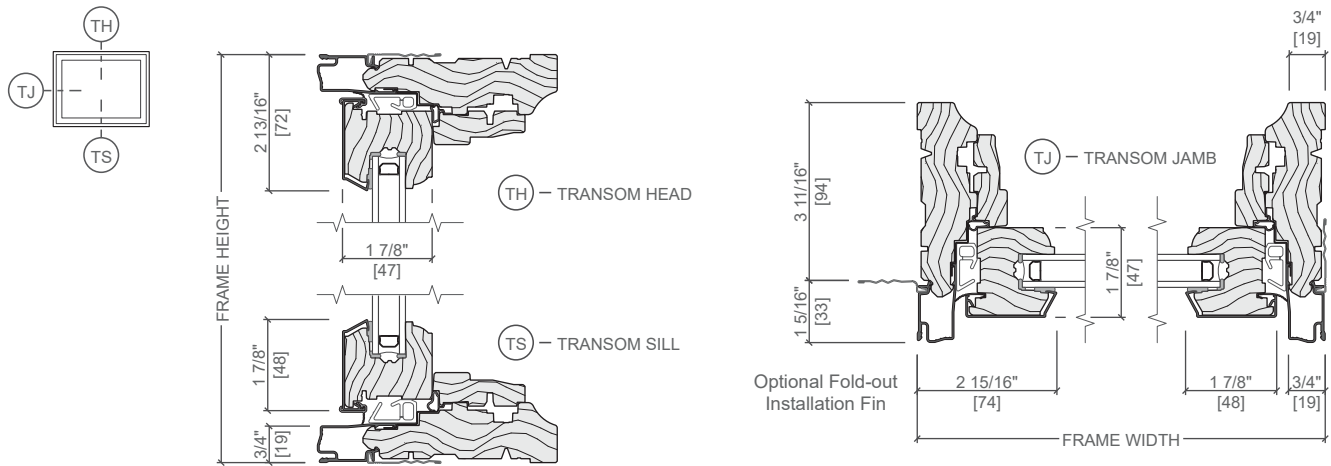
Scale 3" = 1' 0"

All dimensions are approximate.

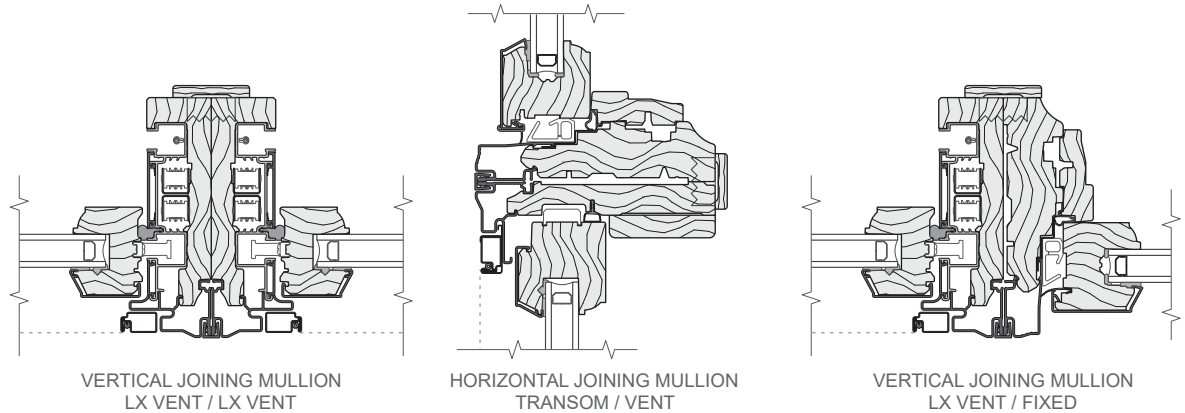


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



Typical Joining Mullions



Scale 3" = 1' 0"

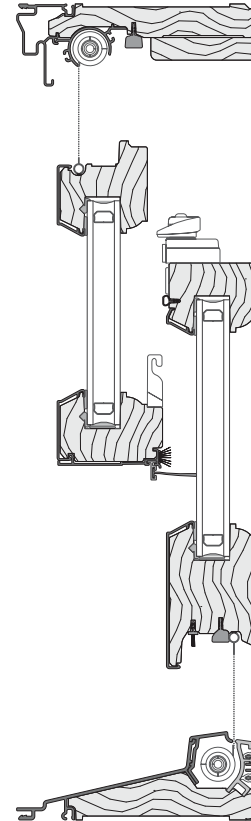
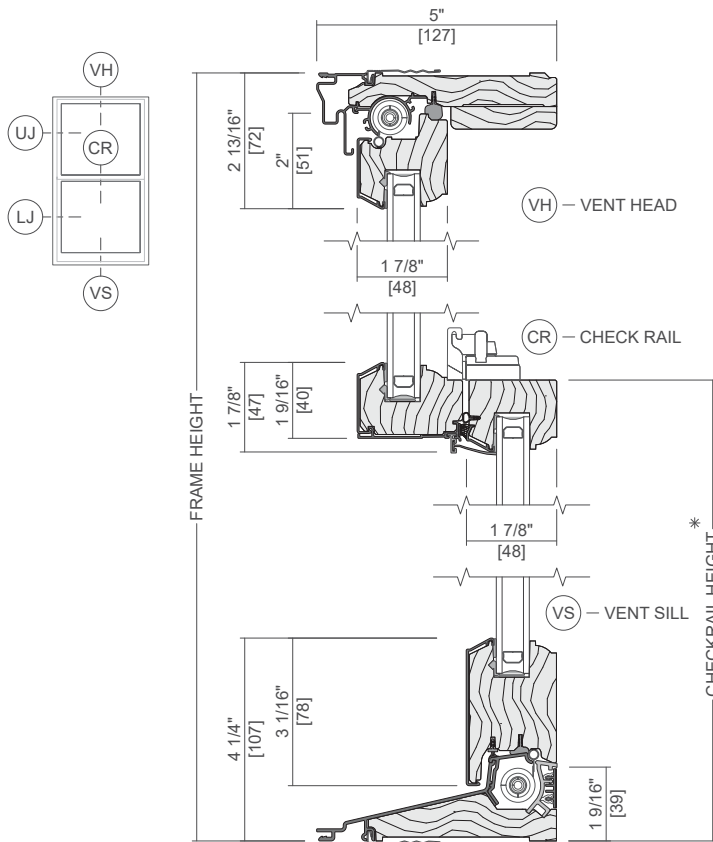
All dimensions are approximate.

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

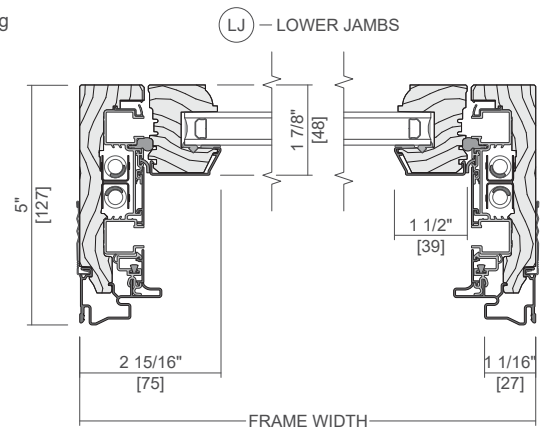
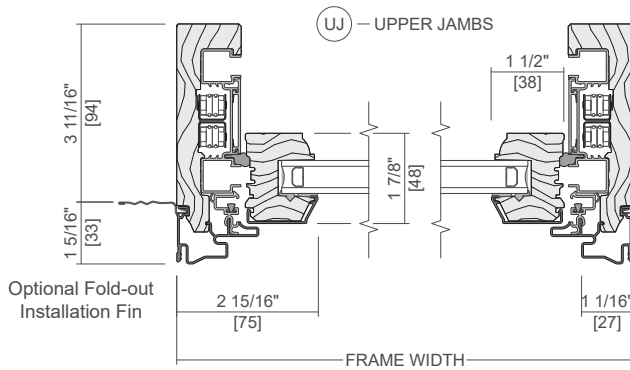


Pella® Reserve™ Traditional Hung Window

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



* Dimension required for ordering units with unequal sash.



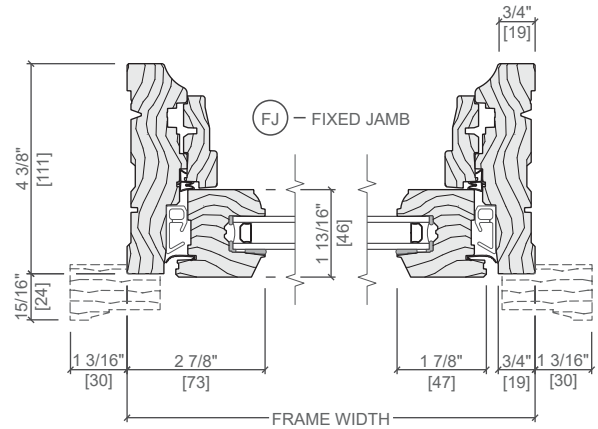
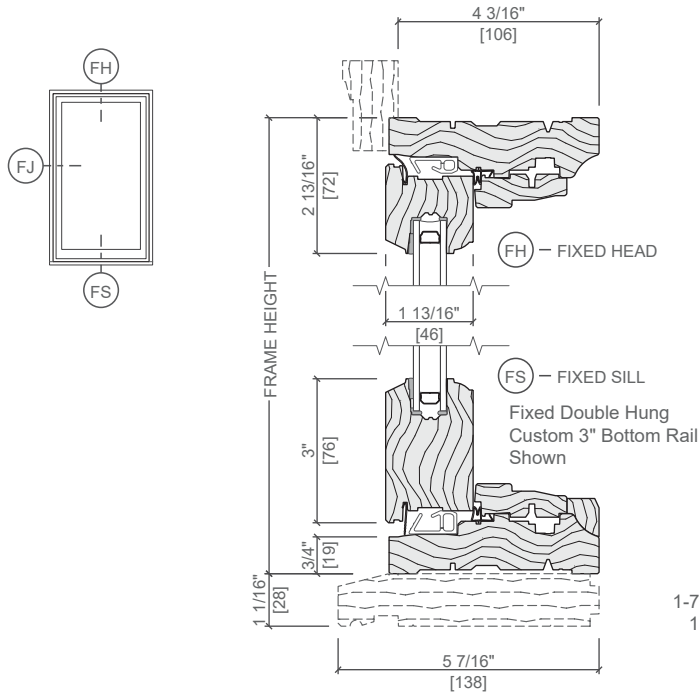
Scale 3" = 1' 0"

All dimensions are approximate.

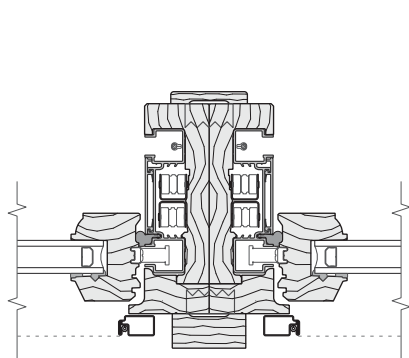
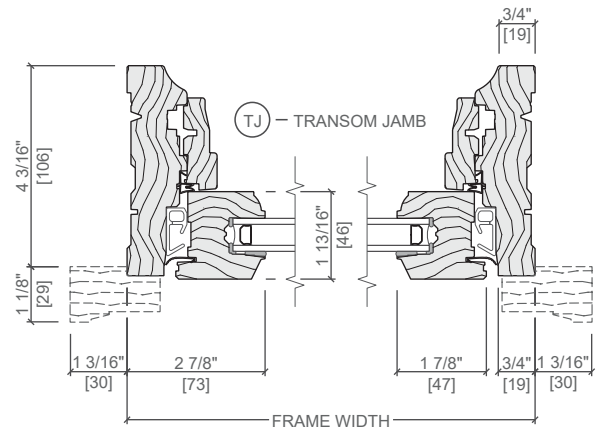
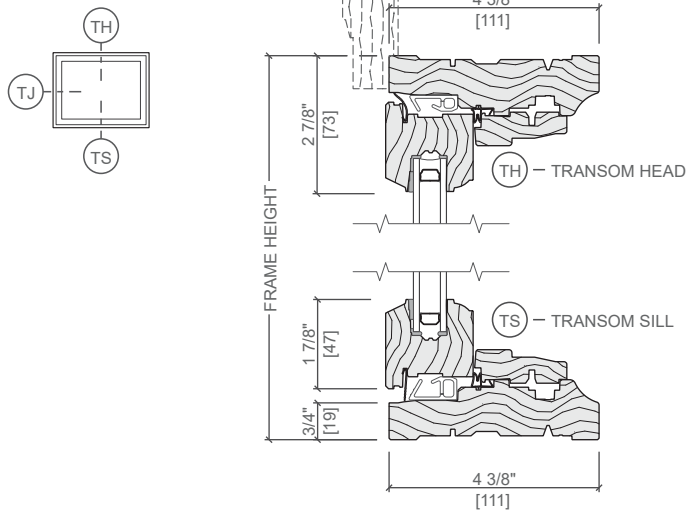


Pella® Reserve™ Traditional Hung Window

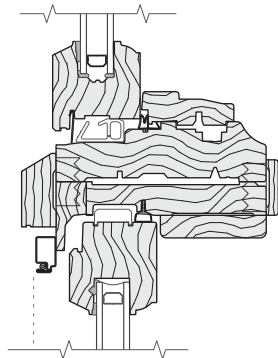
Unit Sections - Wood Exterior Putty Glaze Exterior Profile



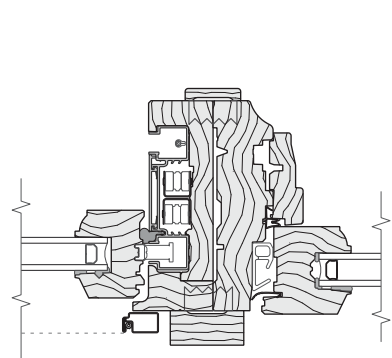
1-78" Brickmould #3443
1-1/8" Subsill #3544
Shown



VERTICAL JOINING MULLION
LX VENT / LX VENT



HORIZONTAL JOINING MULLION
TRANSOM / VENT



VERTICAL JOINING MULLION
LX VENT / FIXED

Scale 3" = 1' 0"

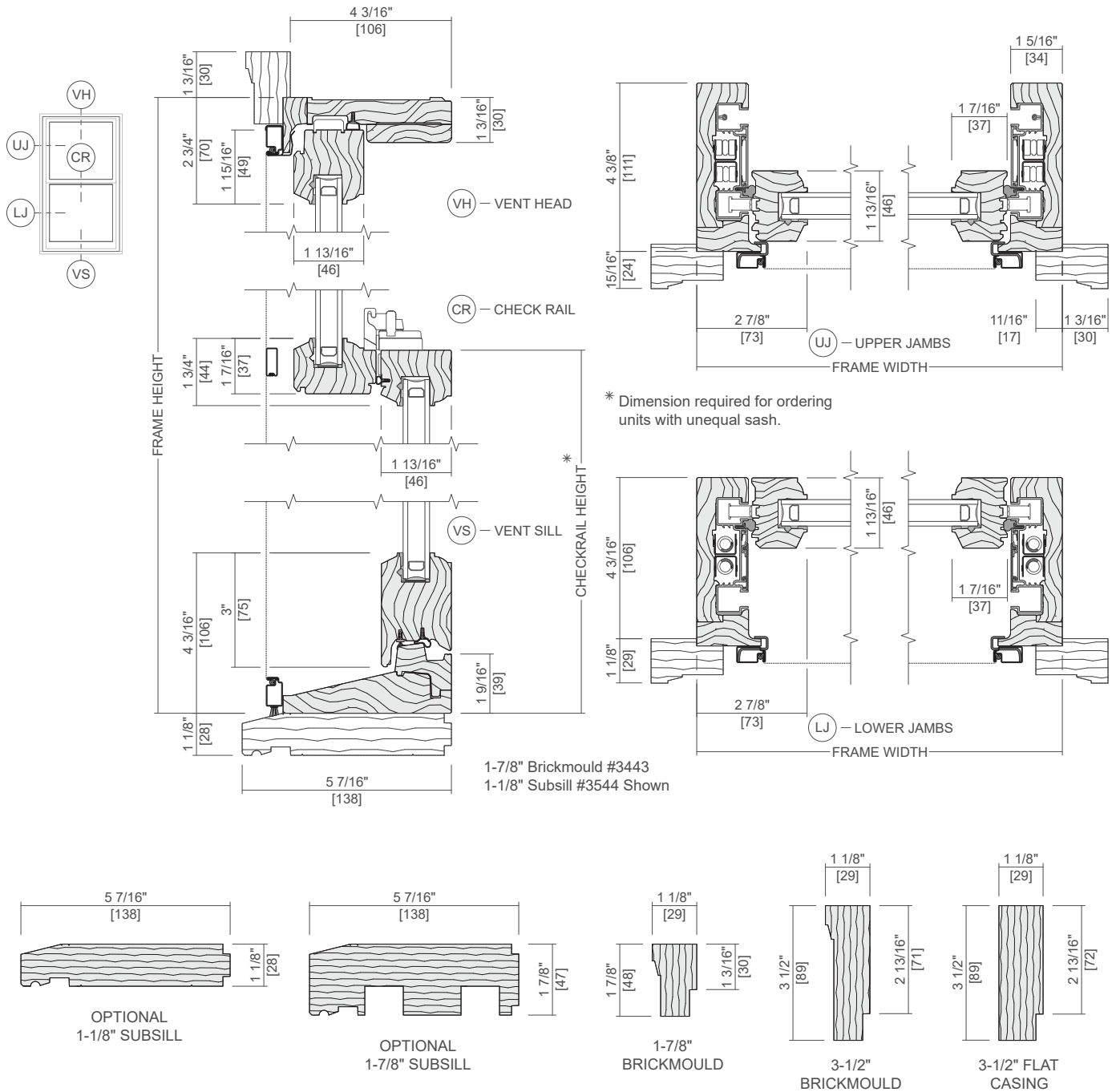
All dimensions are approximate.

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



Pella® Reserve™ Traditional Hung Window

Unit Sections - Wood Exterior Putty Glaze Exterior Profile



Scale 3" = 1' 0"

All dimensions are approximate.

Door Material Information



Supporting Documents.....	OSD-2
Product Selection Guide	
Size and Performance Data.....	OSD-3
Sound Transmission Class and Outdoor-Indoor Transmission Class	OSD-3
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Pella Reserve Out-Swing Patio Door

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Pella Reserve Commercial Out-Swing Door

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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.



Supporting Documents

Supporting documents for this product:

Test Reports:

https://media.pella.com/professional/adm/CertificationReports/Test_Reports_PR-Clad.pdf

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

https://media.pella.com/professional/adm/Wood-CSI_Specs/08551-R.rtf

AIA Masterspec

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

[AIA Masterspec: https://media.pella.com/professional/adm/Wood-CSI_Specs/Masterspec/085200_fl.doc](https://media.pella.com/professional/adm/Wood-CSI_Specs/Masterspec/085200_fl.doc)

Detailed Product Description

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

Clad: <https://media.pella.com/professional/adm/Clad-Wood/PR-OutSwingDoor-C.rtf>

Wood: <https://media.pella.com/professional/adm/Clad-Wood/PR-OutSwingDoor-W.rtf>

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

https://media.pella.com/professional/adm/Clad-Wood/ASR-OF-Elev_D.dwg

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

https://media.pella.com/professional/adm/Clad-Wood/ASR-OF-Details_D.dwg

3D & BIM (requires appropriate software to read and use):

<https://media.pella.com/professional/adm/RevitFiles/PR-Revit/Door-Out-Swing-Pella-Reserve-Traditional.zip>

Sketchup (requires appropriate software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/PellaSKP_PellaReserve_Traditional_Hinged_Door_Out-Swing.zip

Combination Recommendations:

https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf

Installation Details:

https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf

Impact-Resistant Out-Swing Door, Complete Product Information:

https://media.pella.com/professional/adm/Clad-Wood/Pella-ImpactResistant_OutSwingDoor.pdf

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Pella® Reserve™ Traditional Out-Swing Patio Door

Size and Performance Data

Residential

	Clad	Wood
Sizes		
Standard door sizes	●	●
Standard sidelight sizes	●	●
Standard transom sizes — fixed frame direct set	●	●
Fixed casement	●	●
Wide stile casement	●	●
Special sizes	●	●
Custom sizes and shapes	●	●
Single-Swing Door Width		
2' 2", 2' 6", 2' 10", 3' 0", 3' 2"	●	●
Double-Swing Door Width (Active-Passive or Passive-Active)		
4' 2", 5' 0", 5' 7", 6' 0", 6' 3"	●	●
Door Heights		
6' 7-1/2", 6' 10", 7' 2", 8' 0", 9' 0", 10' 0"	●	●

Commercial

	Clad	Wood
Sizes		
Standard sidelight sizes	●	●
3' 2" Single door widths	●	●
6' 0" Double door widths	●	●
7' 2" and 8' 0" door heights	●	●
Configurations		
Double-swing doors	●	●
Single-swing door (left- or right-hinged)	●	●
Performance¹		
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	0.15	0.15
Water Resistance	0	0
Design Pressure	—	—

Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested ₂	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
Clad Out-Swing	WITHOUT GRILLES						
	71-1/4" x 81-1/2"	13/16"	3 mm	3 mm	—	30	25
	71-1/4" x 81-1/2"	13/16"	3 mm	7.6 mm PVB	—	35	29
Clad Out-Swing with Impact-Resistant LaminatedGlass	WITHOUT GRILLES						
	71-1/4" x 81-1/2"	7/8"	8.6 mm PVB	4.7 mm	—	34	30

(—) = Not Applicable

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. Doors supplied without latching hardware are not AAMA/WDMA performance certified. See Design Data pages in this section for specific product performance class and grade values.

(2) 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 Out-Swing Patio Door

Size and Performance Data

		Clad	Wood
Performance data			
Doors 8' 0" Tall and Under	Standard Sill		
	Meets or Exceeds AAMA / WDMA Ratings ¹	LC70 Hallmark Certified	LC70 Hallmark Certified
	Air Infiltration (cfm / ft ² of frame @ 1.57 psf wind pressure)	0.15	0.15
	Water Resistance	10.66 psf	10.66 psf
	Design Pressure	70 psf	70 psf
	Low Profile Sill		
	Water Resistance	0 psf	0 psf
Doors over 8' Tall up to 10' 0"	Standard Sill		
	Meets or Exceeds AAMA / WDMA Ratings ¹	LC50 Hallmark Certified	LC50 Hallmark Certified
	Air Infiltration (cfm / ft ² of frame @ 1.57 psf wind pressure)	0.15	0.15
	Water Resistance	7.52 psf	7.52 psf
	Design Pressure	50 psf	50 psf
	Low Profile Sill		
	Water Resistance	0 psf	0 psf
Other Performance Criteria			
Forced Entry Resistance Level (Minimum Security Grade) ²		40	40
Additional Performance data			
Doors 8' 0" Tall and Under	Products with Impact-Resistant Glass		
	Meets or Exceeds AAMA / WDMA Ratings ¹	LC70	LC70
	Air Infiltration (cfm / ft ² of frame @ 1.57 psf wind pressure)	0.15	0.15
	Water Resistance	10.66 psf	10.66 psf
	Design Pressure	70 psf	70 psf
Doors over 8' Tall up to 10' 0"	Products with Impact-Resistant Glass		
	Meets or Exceeds AAMA / WDMA Ratings ¹	LC50	LC50
	Air Infiltration (cfm / ft ² of frame @ 1.57 psf wind pressure)	0.15	0.15
	Water Resistance	7.52 psf	7.52 psf
	Design Pressure	50 psf	50 psf

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. Doors supplied without latching hardware are not AAMA/WDMA performance certified. 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. Valid only if Pella supplied locking system is used.



Pella® Reserve™ Traditional Out-Swing Patio Door

Features and Options

Standard	Options / Upgrades
Glazing	
Glazing Type	
Dual-Pane Insulating Glass	Triple-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
	Clear (no Low-E coating)
Additional Glass Options	
Tempered Glass	Obscure Glass ¹
	Tinted Glass (Bronze, Gray and Green)
	Impact-Resistant Laminated Dual-Pane Insulating Glass (Residential only)
Gas Fill/High Altitude	
Argon	High altitude
Wood Types	
Pine	Mahogany, Douglas Fir
Exterior	
EnduraClad® protective finish	EnduraClad Plus protective finish
	Factory Primed Pine wood exterior
	Unfinished Mahogany wood exterior
Cladding Colors¹	
Standard colors	Feature Colors, Custom Colors
Interior	
Unfinished Wood	Factory primed ³ , Factory prefinished paint ³ , Factory prefinished stain
Hardware⁴	
White, Champagne, Brown, Matte Black	Satin Brass, Satin Nickel, Oil-Rubbed Bronze
Locking System	
Multi-Point	—
Key lock	—
Grilles	
Integral Light Technology® Grilles	
—	Traditional, Prairie, Top Row, Cross, New England, Victorian, Custom
Grilles-Between-the-Glass	
—	Traditional, Prairie, Top Row, Cross

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

(2) ADA sill finishes available in mill or bronze anodized only.

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

(4) Operating hardware for commercial products is not included.

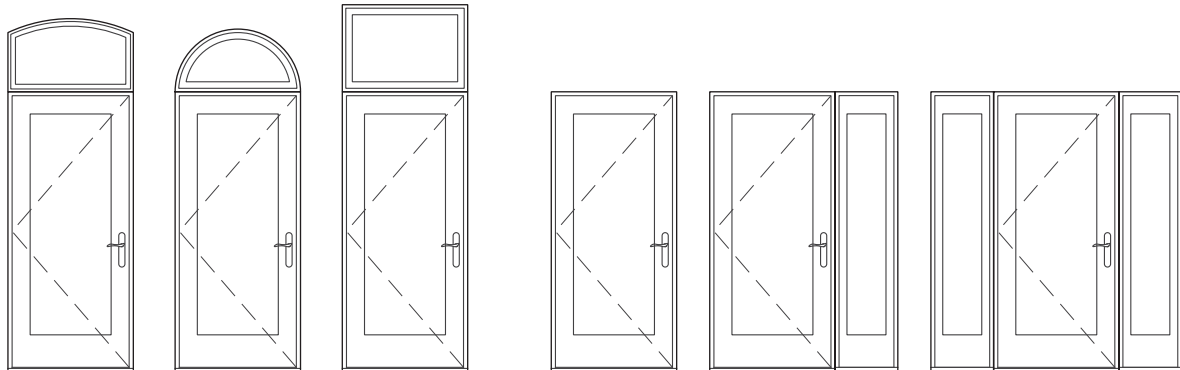


Combinations

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

Pella window combinations are available in an endless variety of arrangements. Below are examples of common configurations, see the Combinations Recommendations document for typical mullions, requirements and limitations.

Contact your local Pella sales representative for more information.



Arch Head over
Single

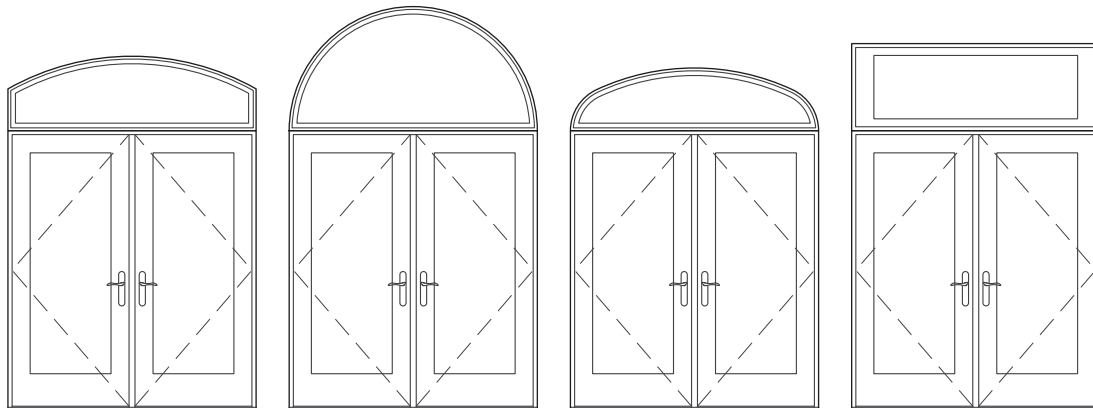
Half Circle over
Single

Transom over
Single¹

Single with
Left Sidelight

Single with
Right Sidelight

Single with
Double Sidelight

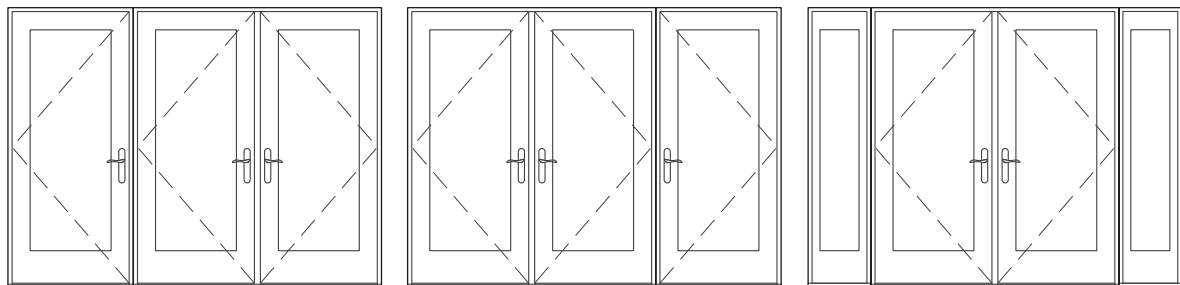


Arch Head over
Double

Half Circle over
Double

Elliptical over
Double

Transom over
Double



Double with
Single Left

Double with
Single Right

Double with
Double Sidelights

(1) Other rectangular profiles are also available as combination options.



Pella® Reserve™ Traditional Out-Swing Patio Door

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	CA	
13/16"	Clear IG	PEL-N-212-06617-00001	3	3	Air	0.40	0.44	0.46	45						
	with grilles-between-the-glass	PEL-N-212-06618-00001				0.40	0.38	0.39	45						
	with integral grilles	PEL-N-212-06619-00001				0.40	0.38	0.39	45						
13/16"	Advanced Low-E IG	PEL-N-212-06649-00001	3	3	Argon	0.28	0.21	0.39	61			SC	S		
	with grilles-between-the-glass	PEL-N-212-06650-00001				0.28	0.19	0.33	61			SC	S		
	with integral grilles	PEL-N-212-06651-00001				0.28	0.19	0.33	61			SC	S		
13/16"	SunDefense™ Low-E IG	PEL-N-212-06625-00001	3	3	Argon	0.27	0.16	0.36	61			SC	S		
	with grilles-between-the-glass	PEL-N-212-06626-00001				0.27	0.14	0.31	61			SC	S		
	with integral grilles	PEL-N-212-06627-00001				0.28	0.14	0.31	61			SC	S		
13/16"	SunDefense+ Low-E IG	PEL-N-212-10237-00001	3	3	Argon	0.24	0.16	0.35	48	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-10238-00001				0.24	0.14	0.30	48	N	NC	SC	S		
	with integral grilles	PEL-N-212-10239-00001				0.25	0.14	0.30	48	N	NC	SC	S		
13/16"	AdvancedComfort Low-E IG	PEL-N-212-06633-00001	3	3	Argon	0.24	0.21	0.38	48	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-06634-00001				0.24	0.18	0.33	48	N	NC	SC	S		
	with integral grilles	PEL-N-212-06635-00001				0.25	0.18	0.33	48	N	NC	SC	S		
13/16"	NaturalSun Low-E IG	PEL-N-212-06641-00001	3	3	Argon	0.28	0.39	0.44	60						
	with grilles-between-the-glass	PEL-N-212-06642-00001				0.28	0.34	0.38	60						
	with integral grilles	PEL-N-212-06643-00001				0.29	0.34	0.38	60						
13/16"	NaturalSun+ Low-E IG	PEL-N-212-10205-00001	3	3	Argon	0.25	0.36	0.43	47	N	NC				
	with grilles-between-the-glass	PEL-N-212-10206-00001				0.25	0.31	0.37	47	N	NC				
	with integral grilles	PEL-N-212-10207-00001				0.26	0.31	0.37	47	N	NC				
Tinted Glazing															
13/16"	Bronze Advanced Low-E IG	PEL-N-212-06693-00001	5	3	Argon	0.27	0.19	0.25	62			SC	S		
	with integral grilles with grilles	PEL-N-212-06694-00001				0.27	0.17	0.22	62			SC	S		
	with integral grilles	PEL-N-212-06695-00001				0.28	0.17	0.22	62			SC	S		
13/16"	Gray Advanced Low-E IG	PEL-N-212-06701-00001	5	3	Argon	0.27	0.17	0.22	62			SC	S		
	with grilles-between-the-glass	PEL-N-212-06702-00001				0.27	0.15	0.19	62			SC	S		
	with integral grilles	PEL-N-212-06703-00001				0.28	0.15	0.19	62			SC	S		
13/16"	Green Advanced Low-E IG	PEL-N-212-06709-00001	5	3	Argon	0.27	0.21	0.34	62			SC	S		
	with grilles-between-the-glass	PEL-N-212-06710-00001				0.27	0.19	0.29	62			SC	S		
	with integral grilles	PEL-N-212-06711-00001				0.28	0.19	0.29	62			SC	S		
High Altitude Glazing															
13/16"	Advanced Low-E IG	PEL-N-212-06645-00001	3	3	Air	0.30	0.22	0.39	57						
	with grilles-between-the-glass	PEL-N-212-06646-00001				0.30	0.19	0.33	57						
	with integral grilles	PEL-N-212-06647-00001				0.31	0.19	0.33	58						
13/16"	SunDefense™ Low-E IG	PEL-N-212-06621-00001	3	3	Air	0.30	0.16	0.36	58						
	with grilles-between-the-glass	PEL-N-212-06622-00001				0.30	0.14	0.31	58						
	with integral grilles	PEL-N-212-06623-00001				0.30	0.14	0.31	58						
13/16"	SunDefense+ Low-E IG	PEL-N-212-10233-00001	3	3	Air	0.26	0.16	0.35	45	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-10234-00001				0.26	0.14	0.30	45	N	NC	SC	S		
	with integral grilles	PEL-N-212-10235-00001				0.27	0.14	0.30	45			SC	S		
13/16"	AdvancedComfort Low-E IG	PEL-N-212-06629-00001	3	3	Air	0.26	0.21	0.38	45	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-06630-00001				0.26	0.18	0.33	45	N	NC	SC	S		
	with integral grilles	PEL-N-212-06631-00001				0.27	0.18	0.33	45			SC	S		
13/16"	NaturalSun Low-E IG	PEL-N-212-06637-00001	3	3	Air	0.31	0.39	0.44	57						
	with grilles-between-the-glass	PEL-N-212-06638-00001				0.31	0.34	0.38	57						
	with integral grilles	PEL-N-212-06639-00001				0.31	0.34	0.38	57						
13/16"	NaturalSun+ Low-E IG	PEL-N-212-10201-00001	3	3	Air	0.27	0.36	0.43	44						
	with grilles-between-the-glass	PEL-N-212-10202-00001				0.27	0.31	0.37	44						
	with integral grilles	PEL-N-212-10203-00001				0.28	0.31	0.37	44						

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

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.
ENERGY STAR® values are updated to 2023 (Version 7) criteria.

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

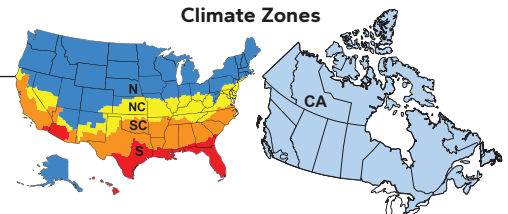
U-Factor values shown are based on a standard sill and pine interior.

Visit www.energystar.gov for Energy Star guidelines.

Rev. 04/02/2024

Pella 2026 Architectural Design Manual | Division 08 – Openings | Windows and Doors | www.Pella.com

Climate Zones





Pella® Reserve™ Traditional Out-Swing Patio Door

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.	Mid	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada ₂	
											Zone				ER	Zone
Vent Triple-Pane Glazing - Aluminum-Clad Exterior											N	NC	SC	S		CA
1"	Advanced Low-E IG	PEL-N-212-07005-00001	3	3	3	Argon	0.23	0.20	0.35	70	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-07006-00001					0.23	0.17	0.29	70	N	NC	SC	S		
	with integral grilles	PEL-N-212-07007-00001					0.23	0.17	0.29	70	N	NC	SC	S		
1"	SunDefense™ Low-E IG	PEL-N-212-07017-00001	3	3	3	Argon	0.22	0.15	0.32	70	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-07018-00001					0.23	0.13	0.27	70	N	NC	SC	S		
	with integral grilles	PEL-N-212-07019-00001					0.23	0.13	0.27	70	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-212-06993-00001	3	3	3	Argon	0.23	0.32	0.39	70	N	NC				
	with grilles-between-the-glass	PEL-N-212-06994-00001					0.23	0.28	0.33	70	N	NC				
	with integral grilles	PEL-N-212-06995-00001					0.23	0.28	0.33	70	N	NC				
High Altitude Glazing																
1"	Advanced Low-E IG	PEL-N-212-07009-00001	3	3	3	Air	0.25	0.20	0.35	66	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-07010-00001					0.26	0.17	0.29	66	N	NC	SC	S		
	with integral grilles	PEL-N-212-07011-00001					0.26	0.17	0.29	66	N	NC	SC	S		
1"	SunDefense Low-E IG	PEL-N-212-07021-00001	3	3	3	Air	0.25	0.15	0.32	66	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-212-07022-00001					0.26	0.13	0.27	66	N	NC	SC	S		
	with integral grilles	PEL-N-212-07023-00001					0.26	0.13	0.27	66	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-212-06997-00001	3	3	3	Air	0.25	0.32	0.39	66	N	NC				
	with grilles-between-the-glass	PEL-N-212-06998-00001					0.26	0.28	0.33	66	N	NC				
	with integral grilles	PEL-N-212-06999-00001					0.26	0.28	0.33	66	N	NC				

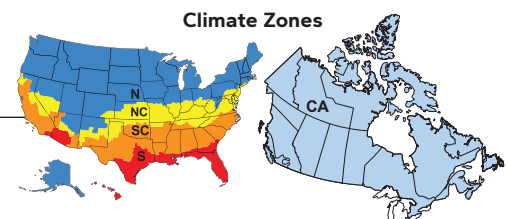
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

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

U-Factor values shown are based on a standard sill and pine interior.

Visit www.energystar.gov for Energy Star guidelines.





Pella® Reserve™ Traditional Out-Swing Patio Door

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	
13/16"	Clear IG	PEL-N-219-06521-00001	3	3	Air	0.39	0.45	0.46	46							
	with grilles-between-the-glass	PEL-N-219-06522-00001				0.39	0.38	0.39	46							
	with integral grilles	PEL-N-219-06523-00001				0.40	0.38	0.39	46							
13/16"	Advanced Low-E IG	PEL-N-219-06537-00001	3	3	Argon	0.27	0.22	0.39	62			SC	S			
	with grilles-between-the-glass	PEL-N-219-06538-00001				0.27	0.19	0.33	62			SC	S			
	with integral grilles	PEL-N-219-06539-00001				0.28	0.19	0.33	62			SC	S			
13/16"	SunDefense™ Low-E IG	PEL-N-219-06529-00001	3	3	Argon	0.27	0.16	0.36	62			SC	S			
	with grilles-between-the-glass	PEL-N-219-06530-00001				0.27	0.14	0.31	63			SC	S			
	with integral grilles	PEL-N-219-06531-00001				0.28	0.14	0.31	63			SC	S			
13/16"	SunDefense+ Low-E IG	PEL-N-219-08533-00001	3	3	Argon	0.24	0.16	0.35	39	N	NC	SC	S			
	with grilles-between-the-glass	PEL-N-219-08534-00001				0.24	0.14	0.30	39	N	NC	SC	S			
	with integral grilles	PEL-N-219-08535-00001				0.25	0.14	0.30	39	N	NC	SC	S			
13/16"	AdvancedComfort Low-E IG	PEL-N-219-06553-00001	3	3	Argon	0.24	0.21	0.38	49	N	NC	SC	S			
	with grilles-between-the-glass	PEL-N-219-06554-00001				0.24	0.18	0.33	49	N	NC	SC	S			
	with integral grilles	PEL-N-219-06555-00001				0.25	0.18	0.33	49	N	NC	SC	S			
13/16"	NaturalSun Low-E IG	PEL-N-219-06545-00001	3	3	Argon	0.28	0.39	0.44	61							
	with grilles-between-the-glass	PEL-N-219-06546-00001				0.28	0.34	0.38	61							
	with integral grilles	PEL-N-219-06547-00001				0.29	0.34	0.38	61							
13/16"	NaturalSun+ Low-E IG	PEL-N-219-08509-00001	3	3	Argon	0.25	0.36	0.43	49	N	NC					
	with grilles-between-the-glass	PEL-N-219-08510-00001				0.25	0.31	0.37	49	N	NC					
	with integral grilles	PEL-N-219-08511-00001				0.26	0.31	0.37	49	N	NC					
Tinted Glazing																
13/16"	Bronze Advanced Low-E IG	PEL-N-219-06573-00002	5	3	Argon	0.27	0.19	0.25	62			SC	S			
	with grilles-between-the-glass	PEL-N-219-06574-00002				0.27	0.17	0.22	62			SC	S			
	with integral grilles	PEL-N-219-06575-00002				0.28	0.17	0.22	62			SC	S			
13/16"	Gray Advanced Low-E IG	PEL-N-219-06573-00003	5	3	Argon	0.27	0.18	0.22	62			SC	S			
	with grilles-between-the-glass	PEL-N-219-06574-00003				0.27	0.15	0.19	62			SC	S			
	with integral grilles	PEL-N-219-06575-00003				0.28	0.15	0.19	62			SC	S			
13/16"	Green Advanced Low-E IG	PEL-N-219-06573-00004	5	3	Argon	0.27	0.22	0.34	62			SC	S			
	with grilles-between-the-glass	PEL-N-219-06574-00004				0.27	0.19	0.29	62			SC	S			
	with integral grilles	PEL-N-219-06575-00004				0.28	0.19	0.29	62			SC	S			
High Altitude Glazing																
13/16"	Advanced Low-E IG	PEL-N-219-06533-00001	3	3	Air	0.30	0.22	0.39	59							
	with grilles-between-the-glass	PEL-N-219-06534-00001				0.30	0.19	0.33	59							
	with integral grilles	PEL-N-219-06535-00001				0.30	0.19	0.33	59							
13/16"	SunDefense Low-E IG	PEL-N-219-06525-00001	3	3	Air	0.30	0.16	0.36	59							
	with grilles-between-the-glass	PEL-N-219-06526-00001				0.30	0.14	0.31	59							
	with integral grilles	PEL-N-219-06527-00001				0.30	0.14	0.31	59							
13/16"	SunDefense+ Low-E IG	PEL-N-219-08529-00001	3	3	Air	0.26	0.16	0.35	49	N	NC	SC	S			
	with grilles-between-the-glass	PEL-N-219-08530-00001				0.26	0.14	0.30	49	N	NC	SC	S			
	with integral grilles	PEL-N-219-08531-00001				0.27	0.14	0.30	52			SC	S			
13/16"	AdvancedComfort Low-E IG	PEL-N-219-06549-00001	3	3	Air	0.26	0.21	0.38	45	N	NC	SC	S			
	with grilles-between-the-glass	PEL-N-219-06550-00001				0.26	0.19	0.33	45	N	NC	SC	S			
	with integral grilles	PEL-N-219-06551-00001				0.27	0.19	0.33	45			SC	S			
13/16"	NaturalSun Low-E IG	PEL-N-219-06541-00001	3	3	Air	0.30	0.39	0.44	58							
	with grilles-between-the-glass	PEL-N-219-06542-00001				0.30	0.34	0.38	58							
	with integral grilles	PEL-N-219-06543-00001				0.31	0.34	0.38	58							
13/16"	NaturalSun+ Low-E IG	PEL-N-219-08505-00001	3	3	Air	0.26	0.36	0.43	41	N	NC					
	with grilles-between-the-glass	PEL-N-219-08506-00001				0.26	0.31	0.37	41	N	NC					
	with integral grilles	PEL-N-219-08507-00001				0.27	0.31	0.37	41							

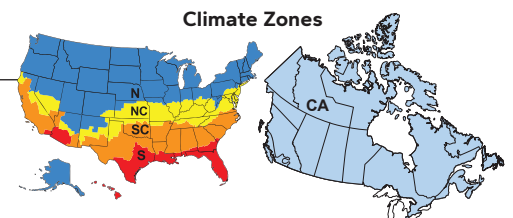
R-Value = 1/U-Factor, SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission, CR = Condensation Resistance
ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.
ENERGY STAR® values are updated to 2023 (Version 7) criteria.

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

U-Factor values shown are based on a standard sill and pine interior.

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Pella® Reserve™ Traditional Out-Swing Patio Door

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.	Mid	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada ₂	
											Zone				ER	Zone
Vent Triple-Pane Glazing - Wood Exterior											N	NC	SC	S		CA
1"	Advanced Low-E IG	PEL-N-219-06713-00001	3	3	3	Argon	0.22	0.20	0.35	70	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-219-06714-00001					0.23	0.17	0.29	70	N	NC	SC	S		
	with integral grilles	PEL-N-219-06715-00001					0.23	0.17	0.29	70	N	NC	SC	S		
1"	SunDefense™ Low-E IG	PEL-N-219-06725-00001	3	3	3	Argon	0.22	0.15	0.32	70	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-219-06726-00001					0.23	0.13	0.27	70	N	NC	SC	S		
	with integral grilles	PEL-N-219-06727-00001					0.23	0.13	0.27	70	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-219-06701-00001	3	3	3	Argon	0.23	0.32	0.39	70	N	NC				
	with grilles-between-the-glass	PEL-N-219-06702-00001					0.23	0.28	0.33	70	N	NC				
	with integral grilles	PEL-N-219-06703-00001					0.23	0.28	0.33	70	N	NC				
High Altitude Glazing																
1"	Advanced Low-E IG	PEL-N-219-06709-00001	3	3	3	Air	0.25	0.20	0.35	67	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-219-06710-00001					0.26	0.17	0.29	67	N	NC	SC	S		
	with integral grilles	PEL-N-219-06711-00001					0.25	0.17	0.29	67	N	NC	SC	S		
1"	SunDefense Low-E IG	PEL-N-219-06721-00001	3	3	3	Air	0.25	0.15	0.32	67	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-219-06722-00001					0.25	0.13	0.27	67	N	NC	SC	S		
	with integral grilles	PEL-N-219-06723-00001					0.25	0.13	0.27	67	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-219-06697-00001	3	3	3	Air	0.25	0.32	0.39	67	N	NC				
	with grilles-between-the-glass	PEL-N-219-06698-00001					0.26	0.28	0.33	67	N	NC				
	with integral grilles	PEL-N-219-06699-00001					0.26	0.28	0.33	67	N	NC				

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

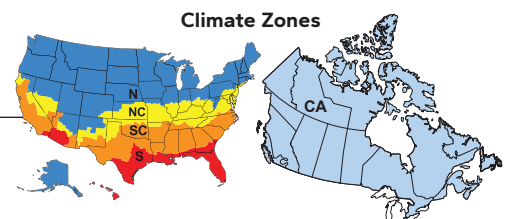
ER = Canadian Energy Rating

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

U-Factor values shown are based on a standard sill and pine interior.

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Pella® Reserve™ Traditional Out-Swing Patio Door

Glazing Performance - Total Unit Impact-Resistant Glass

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
Dual-Pane Laminated Impact-Resistant Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA	
7/8"	Clear IG PVB	PEL-N-212-06945-00001	8	5	air	0.41	0.39	0.44	44						
	with grilles-between-the-glass	PEL-N-212-06946-00001				0.41	0.33	0.38	44						
	with integral grilles	PEL-N-212-06947-00001				0.42	0.33	0.38	44						
7/8"	Advanced Low-E IG PVB	PEL-N-212-06949-00001	8	5	argon	0.29	0.21	0.38	59						
	with grilles-between-the-glass	PEL-N-212-06950-00001				0.30	0.19	0.33	59						
	with integral grilles	PEL-N-212-06951-00001				0.30	0.19	0.33	59						
7/8"	SunDefense™ Low-E IG	PEL-N-212-06953-00001	8	5	argon	0.28	0.17	0.35	59			SC	S		
	with grilles-between-the-glass	PEL-N-212-06954-00001				0.30	0.15	0.30	59						
	with integral grilles	PEL-N-212-06955-00001				0.30	0.15	0.30	59						
Dual-Pane Tinted Laminated Impact-Resistant Glazing - Aluminum-Clad Exterior															
7/8"	Bronze IG PVB	PEL-N-212-06957-00001	8	5	air	0.41	0.26	0.18	44						
	with grilles-between-the-glass	PEL-N-212-06958-00001				0.41	0.23	0.15	44						
	with integral grilles	PEL-N-212-06959-00001				0.40	0.23	0.15	44						
7/8"	Gray IG PVB	PEL-N-212-06961-00001	8	5	air	0.41	0.29	0.21	44						
	with grilles-between-the-glass	PEL-N-212-06962-00001				0.41	0.25	0.18	44						
	with integral grilles	PEL-N-212-06963-00001				0.40	0.25	0.18	44						
7/8"	Green IG PVB	PEL-N-212-06965-00001	8	5	air	0.41	0.35	0.36	44						
	with grilles-between-the-glass	PEL-N-212-06966-00001				0.41	0.30	0.31	44						
	with integral grilles	PEL-N-212-06967-00001				0.40	0.30	0.31	44						

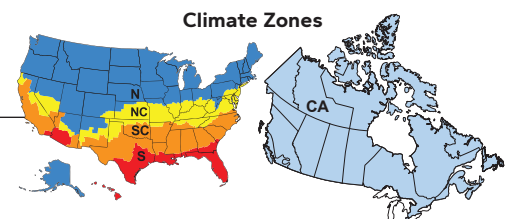
R-Value = 1/U-Factor
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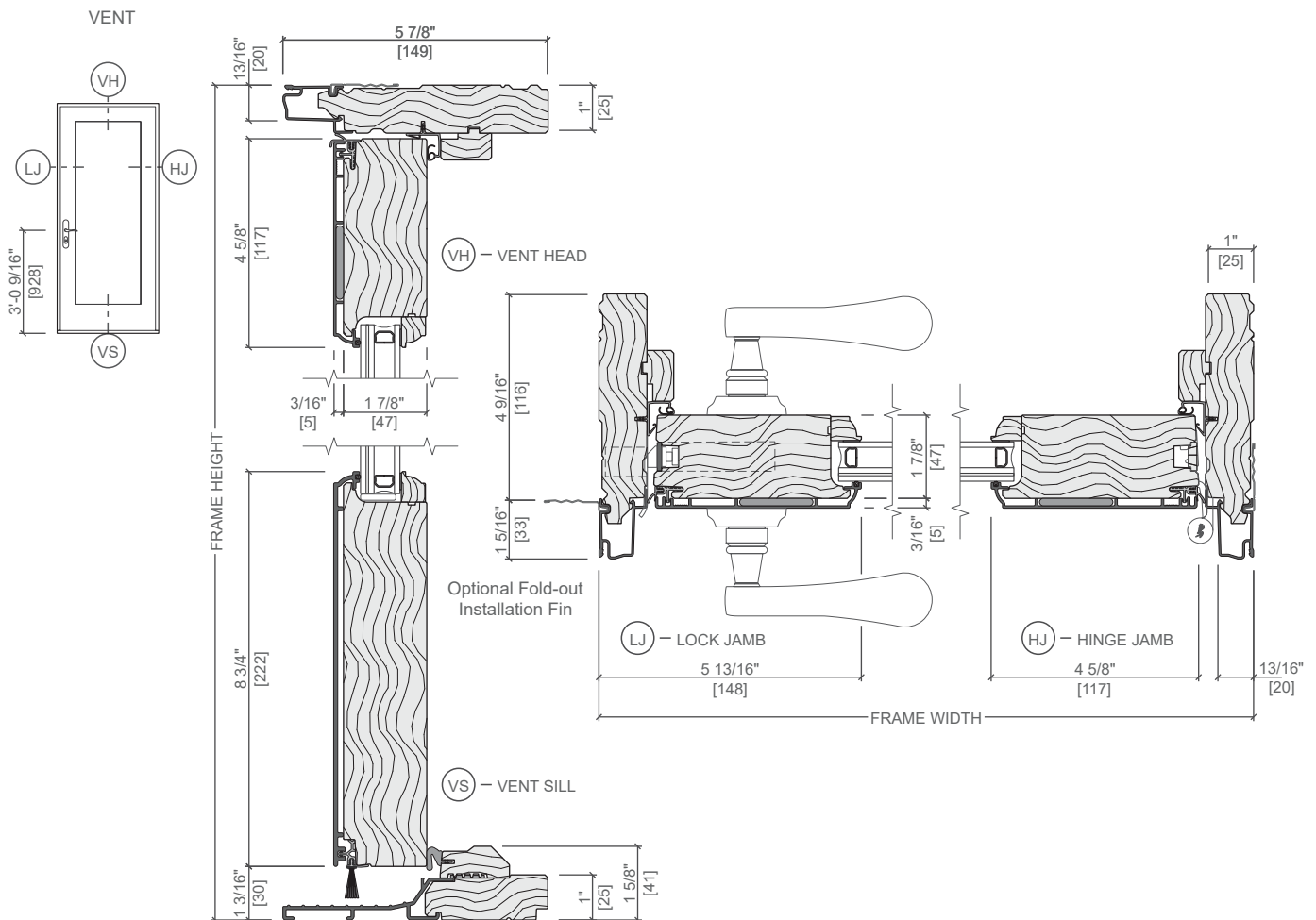


Pella® Reserve™ Traditional Out-Swing Patio Door

Impact-Resistant Glass

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

	Clad
	7/8" Insulated Glass PVB
Maximum Performance Grade¹	
Vent units 6' 10" tall and under	+70 / -70
Vent units 8' tall and under	+70 / -70
Vent units over 8' tall up to 10' tall	+50 / -50
Fixed units 6' 10" tall and under	+70 / -70
Fixed units 8' tall and under	+70 / -70
Fixed units over 8' tall up to 10' tall	+50 / -50
Certification	
Hallmark	411-H-1188
FPAS	FL 14302



(—) = Not applicable

(1) Units are tested for air/water/structural and impact-resistance, and certified for wind zone 4, large missile rating D.

Transoms are not available with impact-resistant Glazing.

For clear opening, vent area, visible glass, and frame area, see clad Design Data pages.

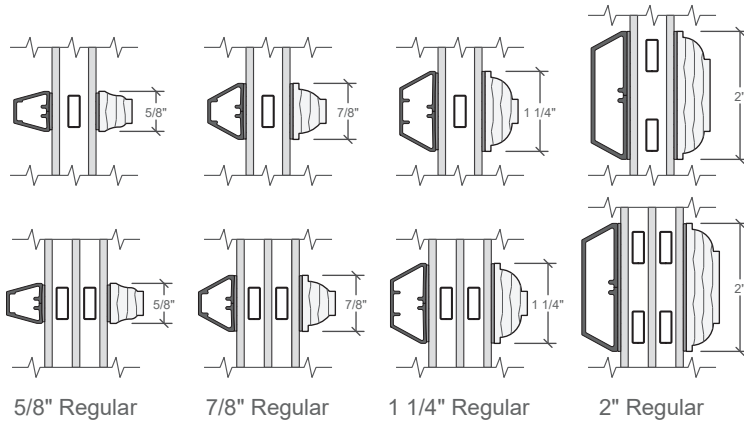
Doors with low profile sills, curved glass in rectangular panel, custom stiles and rails, and no-lock no-bore hardware options are not certified to above standards.



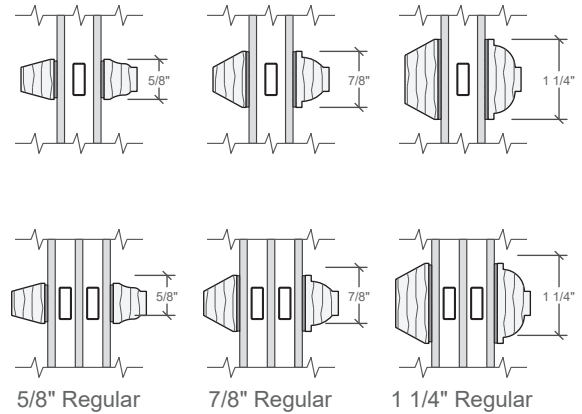
Grille Profiles

Traditional Style Collection - Integral Light Technology®

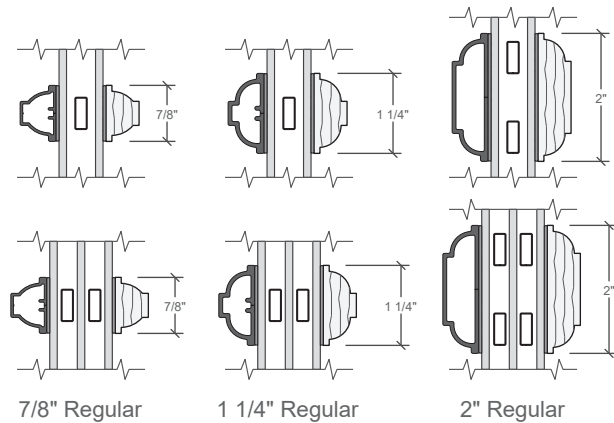
Putty Glaze and Ogee Grilles
Clad Exterior - Wood Interior



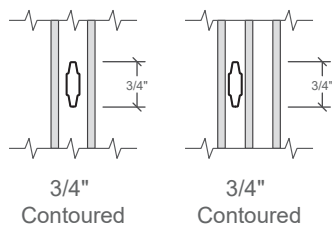
Putty Glaze and Ogee Grilles
Wood Exterior - Wood Interior



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.

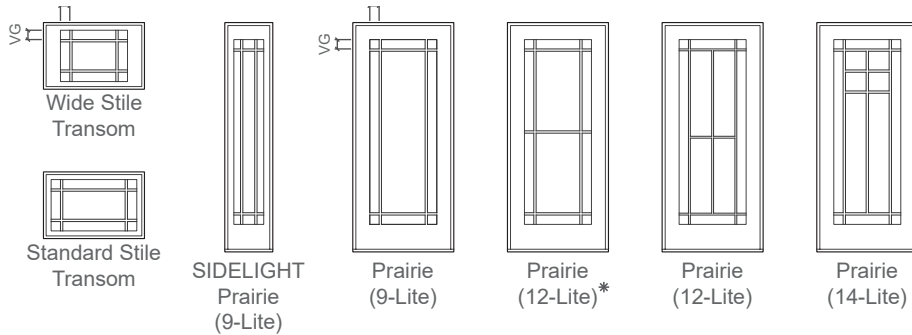
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



Grille Patterns

Integral Light Technology® Grilles

Prairie Lite Patterns



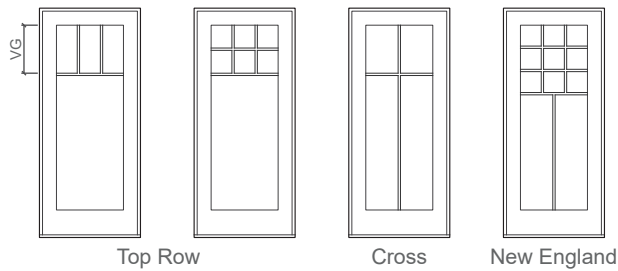
All sidelights and transoms will have 9 lights.

Standard corner lite dimension for Prairie patterns = 3-1/2" VG.

Integral Light Technology Grilles

- 9-Lite available in all standard and special sizes.
- 12-Lite available at 8' height; other heights available per custom drawing.
- 14-Lite available in units > 2' 1-1/2" width.

Other Available Patterns



Top Row

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

Cross

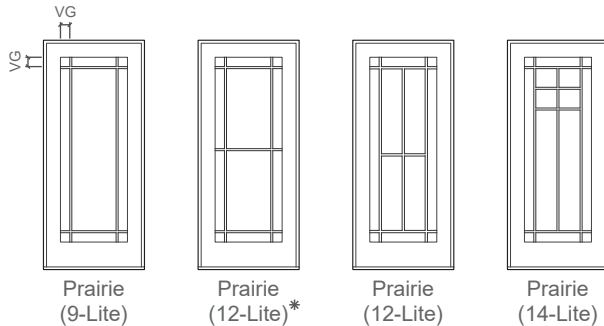
- Standard visible glass to separator bar = one-quarter of total visible glass height.

New England

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

Grilles-Between-the-Glass

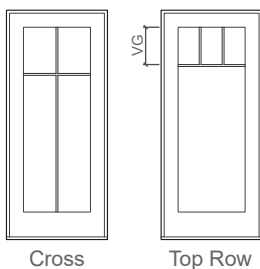
Prairie Lite Patterns



Prairie

- Standard corner lite dimension = 3-1/2" VG.
- 9-Lite available in units < 7' 0-3/4" height.
- * Prairie in heights > 7' 0-1/2" will have 12 lites.
- 12-Lite available in units ≤ 7' 2" height.

Other Available Patterns



Cross

- Horizontal bar is 1/4 of visible glass from the top in door panels.
- Not available in transoms.

Top Row

- Horizontal bar may be ordered 12", 14" or 16" from the top VG.
- Transoms with frame heights ≥ 21", the horizontal bar will be positioned at 1/2 the visible glass height.
- Top Row not available in transoms with frame height < 21".

For traditional patterns, see size tables.

VG = Visible Glass

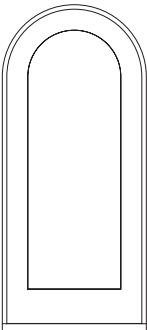
Lite dimensions noted can vary.

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

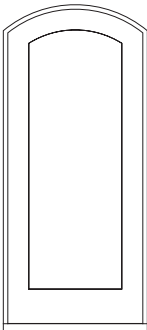


Custom Shapes

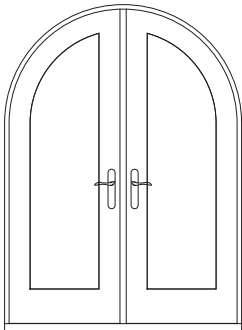
Pella Reserve Out-Swing French doors are available in custom shapes shown below, and additional shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.



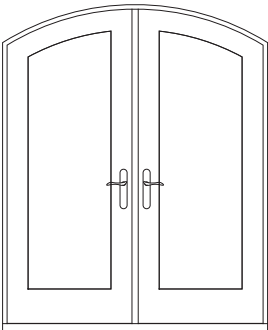
Full Springline



Full Arch Head



Full Springline

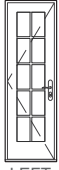
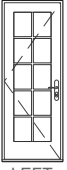
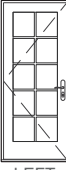
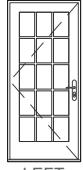
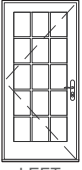


Full Arch Head

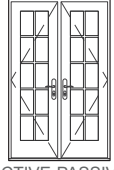
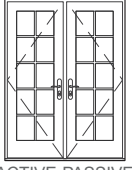
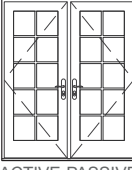
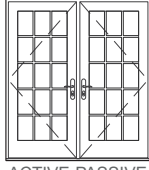
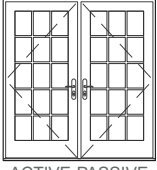


Size Tables

6' 7 1/2" Single Doors and Sidelight

	Opening	1' 6 3/4" (476)	2' 2 1/8" (664)	2' 6 3/4" (781)	2' 10 1/4" (870)	3' 0 3/4" (933)	3' 2 5/8" (981)
	Frame	1' 6" (457)	2' 1 3/8" (645)	2' 6" (762)	2' 9 1/2" (851)	3' 0" (914)	3' 1 7/8" (962)
(2 032) (2 019)	6' 8"						
	6' 7 1/2"	SIDELIGHT 1880	LEFT 2680	LEFT 3080	LEFT 3480	LEFT 3680	LEFT 3880

6' 7 1/2" Double-Swing Doors

	Opening	4' 2 3/4" (1 289)	5' 0" (1 524)	5' 7" (1 702)	6' 0" (1 829)	6' 3 3/4" (1 924)
	Frame	4' 2" (1 270)	4' 11 1/4" (1 505)	5' 6 1/4" (1 682)	5' 11 1/4" (1 810)	6' 3" (1 905)
(2 032) (2 019)	6' 8"					
	6' 7 1/2"	ACTIVE-PASSIVE 5080	ACTIVE-PASSIVE 6080	ACTIVE-PASSIVE 6780	ACTIVE-PASSIVE 7280	ACTIVE-PASSIVE 7580

Not to scale.

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

All doors and sidelights are glazed with tempered glass.

For windows and patio doors with impact-resistant glass, see product instructions or refer to local building code requirements.

Single doors - Left-hand shown. Right-hand and fixed are available.

Double-swing doors - Active-Passive shown. Passive-Active also available.

For Wood Units Only:

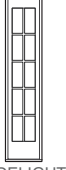
To determine masonry dimensions when using Pella 1-7/8" brickmould, add 1-5/8" to frame height and 3-1/8" to frame width. When using Pella 3-1/2" brickmould, add 6-3/8" to frame width and 3-1/4" to frame height.



Pella® Reserve™ Traditional Out-Swing Patio Door

Size Tables

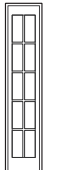
6' 10" Single Doors and Sidelight

	Opening	1' 6 3/4" (476)	2' 2 1/8" (664)	2' 6 3/4" (781)	2' 10 1/4" (870)	3' 0 3/4" (933)	3' 2 5/8" (981)
	Frame	1' 6" (457)	2' 1 3/8" (645)	2' 6" (762)	2' 9 1/2" (851)	3' 0" (914)	3' 1 7/8" (962)
(2 083) (2 070)	6' 10"						
	6' 9 1/2"	SIDELIGHT 1882	LEFT 2682	LEFT 3082	LEFT 3482	LEFT 3682	LEFT 3882

6' 10" Double-Swing Doors

	Opening	4' 2 3/4" (1 289)	5' 0" (1 524)	5' 7" (1 702)	6' 0" (1 829)	6' 3 3/4" (1 924)
	Frame	4' 2" (1 270)	4' 11 1/4" (1 505)	5' 6 1/4" (1 682)	5' 11 1/4" (1 810)	6' 3" (1 905)
(2 083) (2 070)	6' 10"					
	6' 9 1/2"	ACTIVE-PASSIVE 5082	ACTIVE-PASSIVE 6082	ACTIVE-PASSIVE 6782	ACTIVE-PASSIVE 7282	ACTIVE-PASSIVE 7582

7' 2" Single Doors and Sidelight

	Opening	1' 6 3/4" (476)	2' 2 1/8" (664)	2' 6 3/4" (781)	2' 10 1/4" (870)	3' 0 3/4" (933)	3' 2 5/8" (981)
	Frame	1' 6" (457)	2' 1 3/8" (645)	2' 6" (762)	2' 9 1/2" (851)	3' 0" (914)	3' 1 7/8" (962)
(2 197) (2 184)	7' 2 1/2"						
	7' 2"	SIDELIGHT 1886	LEFT 2686	LEFT 3086	LEFT 3486	LEFT 3686	LEFT 3886

7' 2" Double-Swing Doors

	Opening	4' 2 3/4" (1 289)	5' 0" (1 524)	5' 7" (1 702)	6' 0" (1 829)	6' 3 3/4" (1 924)
	Frame	4' 2" (1 270)	4' 11 1/4" (1 505)	5' 6 1/4" (1 682)	5' 11 1/4" (1 810)	6' 3" (1 905)
(2 197) (2 184)	7' 2 1/2"					
	7' 2"	ACTIVE-PASSIVE 5086	ACTIVE-PASSIVE 6086	ACTIVE-PASSIVE 6786	ACTIVE-PASSIVE 7286	ACTIVE-PASSIVE 7586

Not to scale.

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

All doors and sidelights are glazed with tempered glass.

For windows and patio doors with impact-resistant glass, see product instructions or refer to local building code requirements.

Single doors - Left-hand shown. Right-hand and fixed are available.

Double-swing doors - Active-Passive shown. Passive-Active also available.

For Wood Units Only:

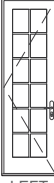
To determine masonry dimensions when using Pella 1-7/8" brickmould, add 1-5/8" to frame height and 3-1/8" to frame width. When using Pella 3-1/2" brickmould, add 6-3/8" to frame width and 3-1/4" to frame height.



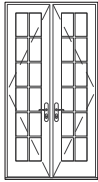
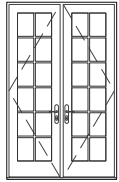
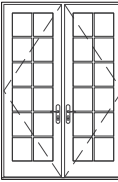
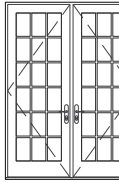
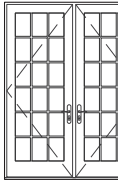
Pella® Reserve™ Traditional Out-Swing Patio Door

Size Tables

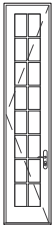
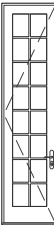
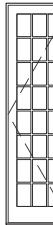
8' 0" Single Doors and Sidelight

	Opening	1' 6 3/4" (476)	2' 2 1/8" (664)	2' 6 3/4" (781)	2' 10 1/4" (870)	3' 0 3/4" (933)	3' 2 5/8" (981)
	Frame	1' 6" (457)	2' 1 3/8" (645)	2' 6" (762)	2' 9 1/2" (851)	3' 0" (914)	3' 1 7/8" (962)
(2 438) (2 426)	8' 0"						
		SIDELIGHT 1896	LEFT 2696	LEFT 3096	LEFT 3496	LEFT 3696	LEFT 3896

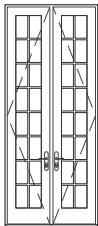
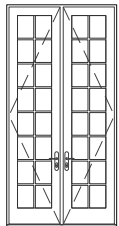
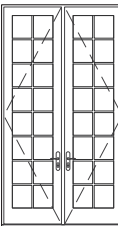
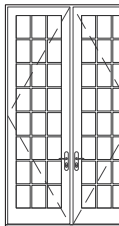
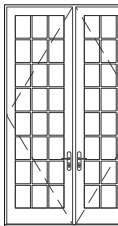
8' 0" Double-Swing Doors

	Opening	4' 2 3/4" (1 289)	5' 0" (1 524)	5' 7" (1 702)	6' 0" (1 829)	6' 3 3/4" (1 924)
	Frame	4' 2" (1 270)	4' 11 1/4" (1 505)	5' 6 1/4" (1 682)	5' 11 1/4" (1 810)	6' 3" (1 905)
(2 438) (2 426)	8' 0"					
		ACTIVE-PASSIVE 5096	ACTIVE-PASSIVE 6096	ACTIVE-PASSIVE 6796	ACTIVE-PASSIVE 7296	ACTIVE-PASSIVE 7596

10' 0" Single Doors

	Opening	2' 2 1/8" (664)	2' 6 3/4" (781)	2' 10 1/4" (870)	3' 0 3/4" (933)	3' 2 5/8" (981)
	Frame	2' 1 3/8" (645)	2' 6" (762)	2' 9 1/2" (851)	3' 0" (914)	3' 1 7/8" (962)
(3 048) (3 035)	10' 0"					
		LEFT 26120	LEFT 30120	LEFT 34120	LEFT 36120	LEFT 38120

10' 0" Double-Swing Doors

	Opening	4' 2 3/4" (1 289)	5' 0" (1 524)	5' 7" (1 702)	6' 0" (1 829)	6' 3 3/4" (1 924)
	Frame	4' 2" (1 270)	4' 11 1/4" (1 505)	5' 6 1/4" (1 682)	5' 11 1/4" (1 810)	6' 3" (1 905)
(3 048) (3 035)	10' 0"					
		ACTIVE-PASSIVE 50120	ACTIVE-PASSIVE 60120	ACTIVE-PASSIVE 67120	ACTIVE-PASSIVE 72120	ACTIVE-PASSIVE 75120

Not to scale.

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

All doors and sidelights are glazed with tempered glass.

For windows and patio doors with impact-resistant glass, see product instructions or refer to local building code requirements.

Single doors - Left-hand shown. Right-hand and fixed are available.

Double-swing doors - Active-Passive shown. Passive-Active also available.

For Wood Units Only:

To determine masonry dimensions when using Pella 1-7/8" brickmould, add 1-5/8" to frame height and 3-1/8" to frame width. When using Pella 3-1/2" brickmould, add 6-3/8" to frame width and 3-1/4" to frame height.



Pella® Reserve™ Traditional Out-Swing Patio Door

Size Tables

Wide Stile Transoms for Single Doors

	Opening		2' 2 1/8" (664)		2' 6 3/4" (781)		2' 10 1/4" (870)		3' 0 3/4" (933)		3' 2 5/8" (981)	
	Frame		2' 1 3/8" (645)		2' 6" (762)		2' 9 1/2" (851)		3' 0" (914)		3' 1 7/8" (962)	
(451) (432)	2' 1 3/4" 1' 5 3/4"	1' 5"		2617		3017		3417		3617		3817
		2' 1"		2625		3025		3425		3625		3825

Standard Stile Transoms for Single Doors

(451) (432)	2' 1 3/4" 1' 5 3/4"	1' 5"		2617		3017		3417		3617		3817
		2' 1"		2625		3025		3425		3625		3825

Fixed Frame Direct Sets for Single Doors

(451) (432)	2' 1 3/4" 1' 5 3/4"	1' 5"		2617		3017		3417		3617		3817
		2' 1"		2625		3025		3425		3625		3825

Wide Stile Transoms for Double-Swing Doors

	Opening		4' 2 3/4" (1 289)		5' 0" (1 524)		5' 7" (1 702)		6' 0" (1 829)		6' 3 3/4" (1 924)	
	Frame		4' 2" (1 270)		4' 11 1/4" (1 505)		5' 6 1/4" (1 682)		5' 11 1/4" (1 810)		6' 3" (1 905)	
(451) (432)	2' 1 3/4" 1' 5 3/4"	1' 5"		5017		6017		6717		7217		7517
		2' 1"		5025		6025		6725		7225		7525

Standard Stile Transoms for Double-Swing Doors

(451) (432)	2' 1 3/4" 1' 5 3/4"	1' 5"		5017		6017		6717		7217		7517
		2' 1"		5025		6025		6725		7225		7525

Fixed Frame Direct Sets for Double-Swing Doors

(451) (432)	2' 1 3/4" 1' 5 3/4"	1' 5"		5017		6017		6717		7217		7517
		2' 1"		5025		6025		6725		7225		7525

Not to scale.

 Tempered glass is standard.

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



Pella® Reserve™ Traditional Out-Swing Patio Door

Special Sizes and Dimensions

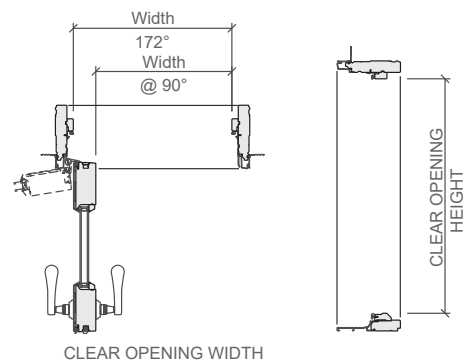
Special Size Frame Dimensions ¹

Door Type	Non-Impact Glazing				Products with Impact-Resistant Glass ²			
	Frame Width		Frame Height		Frame Width		Frame Height	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Transoms	25-3/8" (645)	75" (1 905)	14" (356)	25" (635)	25-3/8" (645)	75" (1 905)	14" (356)	25" (635)
Sidelights (Fixed)	18" (457)	65" (457)	36" (914)	119-1/2" (3 035)	12" (305)	42" (1 067)	48" (1 219)	96" (2 438)
Single Doors	18" (457)	48" (1 219)	36" (914)	119-1/2" (3 035)	24" (610)	37-7/8" (962)	76-3/8" (1 940)	119-1/2" (3 035)
Double Doors	36" (914)	96" (2 438)	36" (914)	119-1/2" (3 035)	48" (1 219)	75" (1 905)	73-3/8" (1 864)	119-1/2" (3 035)

Miscellaneous Formulas

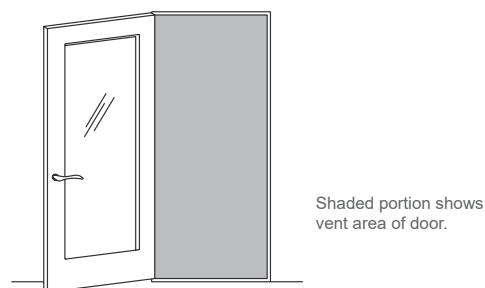
	Visible Glass		Actual Glass	
	Width	Height	Width	Height
Transoms — Fixed Frame Direct Set	FW - 3-1/4"	FH - 3-1/4"	FW - 2"	FH - 2"
Transoms — Fixed Casement	FW - 5-3/4"	FH - 5-3/4"	FW - 4-3/8"	FH - 4-3/8"
Transoms — Wide Stile Casement	FW - 11-5/8"		FW - 10-1/4"	
Sidelights (Fixed)	FW - 6-5/8"	FH - 15-3/4"	FW - 5-5/8"	FH - 4-3/8"
Single Doors	FW - 11-5/8"		FW - 10-5/8"	
Double Doors	(FW ÷ 2) - 11-1/4"		(FW ÷ 2) - 10-1/4"	

Clear Opening Schematic



Clad and Wood Clear Opening Dimensions

	Clad and Wood		
		Width	Height
Clear Opening (@ 90°)	Single Door	FW - 5-3/8"	FH - 3-1/16"
	Double Doors (Active/Single Panel)	(FW ÷ 2) - 5"	
	Double Doors (Both Panels)	(FW ÷ 2) - 7-7/16"	
Clear Opening (@ 172°)	Single Door	FW - 3-5/16"	FH - 3-1/16"
	Double Doors (Active/Single Panel)	(FW ÷ 2) - 2-15/16"	
	Double Doors (Both Panels)	(FW ÷ 2) - 3-15/16"	



FW = Frame Width, FH = Frame Height

(1) Available within size range shown.

(2) Rectangular Units Only.

Keep frame dimensions to the nearest 1/8" increment.



Pella® Reserve™ Traditional Out-Swing Patio Door

Design Data

Out-Swing Design Data											
	Unit		Clear Opening (Inches)				Vent Area Ft²	Vent Area (ADA) Ft²	Visible Glass Ft²	Standard Glass Thickness (mm) Tempered	Performance Class & Grade ₃
			Width ₁		Standard Sill Unit Height	ADA Sill Unit Height₂					
			170°	90°							
6' 7-1/2" Doors	2680	F	—	—	—	—	—	—	6.1	3	LC70
	3080	F	—	—	—	—	—	—	8.1	3	LC70
	3480	F	—	—	—	—	—	—	9.7	3	LC70
	3680	F	—	—	—	—	—	—	10.8	3	LC70
	3880	F	—	—	—	—	—	—	11.6	3	LC70
	2680	L/R	22-1/16	20	76-1/4	77-7/16	11.3	11.5	6.1	3	LC70
	3080	L/R	26-11/16	24-5/8	76-1/4	77-7/16	13.8	14.0	8.1	3	LC70
	3480	L/R	30-3/16	28-1/8	76-1/4	77-7/16	15.6	15.9	9.7	3	LC70
	3680	L/R	32-11/16	30-5/8	76-1/4	77-7/16	17.0	17.2	10.8	3	LC70
	3880	L/R	34-9/16	32-1/2	76-1/4	77-7/16	17.9	18.2	11.6	3	LC70
	5080	PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	76-1/4	77-7/16	24.5	24.9	12.2	3	LC70
	6080	PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	76-1/4	77-7/16	29.4	29.9	16.3	3	LC70
	6780	PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	76-1/4	77-7/16	33.1	33.7	19.4	3	LC70
	7280	PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	76-1/4	77-7/16	35.8	36.3	21.6	3	LC70
	7580	PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	76-1/4	77-7/16	37.7	38.4	23.2	3	LC70
6' 10" Doors	3082	F	—	—	—	—	—	—	8.4	3	LC70
	3682	F	—	—	—	—	—	—	11.1	3	LC70
	2682	L/R	22-1/16	20	78-1/4	79-7/16	11.6	11.8	6.3	3	LC70
	3082	L/R	26-11/16	24-5/8	78-1/4	79-7/16	14.2	14.4	8.4	3	LC70
	3482	L/R	30-3/16	28-1/8	78-1/4	79-7/16	16.0	16.3	10.0	3	LC70
	3682	L/R	32-11/16	30-5/8	78-1/4	79-7/16	17.4	17.7	11.1	3	LC70
	3882	L/R	34-9/16	32-1/2	78-1/4	79-7/16	18.4	18.7	12.0	3	LC70
	5082	PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	78-1/4	79-7/16	25.2	25.6	12.6	3	LC70
	6082	PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	78-1/4	79-7/16	30.2	30.7	16.8	3	LC70
	6782	PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	78-1/4	79-7/16	34.0	34.5	20.0	3	LC70
	7282	PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	78-1/4	79-7/16	36.7	37.3	22.3	3	LC70
	7582	PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	78-1/4	79-7/16	38.7	39.3	24.0	3	LC70

(—) = Not applicable

(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.

(2) Water resistance is 0 psf for units with a low profile sill.

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

All doors and sidelights are glazed with tempered glass.



Pella® Reserve™ Traditional Out-Swing Patio Door

Design Data

Out-Swing Design Data											
Unit		Clear Opening (Inches)				Vent Area Ft²	Vent Area (ADA) Ft²	Visible Glass Ft²	Standard Glass Thickness (mm) Tempered	Performance Class & Grade₃	
		Width₁		Standard Sill Unit Height	ADA Sill Unit Height₂						
		170°	90°								
7' 2" Doors	3086	F	—	—	—	—	—	9.0	3	LC70	
	3686	F	—	—	—	—	—	11.9	3	LC70	
	2686	L/R	22-1/16	20	82-3/4	83-15/16	12.3	12.5	6.7	3	LC70
	3086	L/R	26-11/16	24-5/8	82-3/4	83-15/16	15.0	15.2	9.0	3	LC70
	3486	L/R	30-3/16	28-1/8	82-3/4	83-15/16	17.0	17.2	10.7	3	LC70
	3686	L/R	32-11/16	30-5/8	82-3/4	83-15/16	18.4	18.7	11.9	3	LC70
	3886	L/R	34-9/16	32-1/2	82-3/4	83-15/16	19.5	19.8	12.8	3	LC70
	5086	PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	82-3/4	83-15/16	26.6	27.0	13.4	3	LC70
	6086	PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	82-3/4	83-15/16	31.9	32.4	17.9	3	LC70
	6786	PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	82-3/4	83-15/16	36.0	36.5	21.3	3	LC70
	7286	PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	82-3/4	83-15/16	38.8	39.4	23.8	3	LC70
	7586	PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	82-3/4	83-15/16	41.0	41.6	25.6	3	LC70
8' 0" Doors	3096	F	—	—	—	—	—	10.2	3	LC70	
	3696	F	—	—	—	—	—	13.5	3	LC70	
	2696	L/R	22-1/16	20	92-1/4	93-7/16	13.7	13.9	7.6	3	LC70
	3096	L/R	26-11/16	24-5/8	92-1/4	93-7/16	16.7	16.9	10.2	3	LC70
	3496	L/R	30-3/16	28-1/8	92-1/4	93-7/16	18.9	19.2	12.1	3	LC70
	3696	L/R	32-11/16	30-5/8	92-1/4	93-7/16	20.5	20.8	13.5	3	LC70
	3896	L/R	34-9/16	32-1/2	92-1/4	93-7/16	21.7	22.0	14.5	3	LC70
	5096	PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	92-1/4	93-7/16	29.7	30.1	15.2	3	LC70
	6096	PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	92-1/4	93-7/16	35.6	36.1	20.4	3	LC70
	6796	PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	92-1/4	93-7/16	40.1	40.6	24.2	3	LC70
	7296	PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	92-1/4	93-7/16	43.3	43.9	27.0	3	LC70
	7596	PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	92-1/4	93-7/16	45.7	46.3	29.1	3	LC70
10' 0" Doors	30120	F	—	—	—	—	—	13.2	5	LC50	
	36120	F	—	—	—	—	—	17.6	5	LC50	
	26120	L/R	22-1/16	20	116-1/4	117-7/16	17.3	17.5	9.9	5	LC50
	30120	L/R	26-11/16	24-5/8	116-1/4	117-7/16	21.0	21.3	13.2	5	LC50
	34120	L/R	30-3/16	28-1/8	116-1/4	117-7/16	23.9	24.1	15.8	5	LC50
	36120	L/R	32-11/16	30-5/8	116-1/4	117-7/16	25.9	26.2	17.6	5	LC50
	38120	L/R	34-9/16	32-1/2	116-1/4	117-7/16	27.4	27.7	18.9	5	LC50
	50120	PA/AP	46-11/16 / 22-1/16	42-9/16 / 20	116-1/4	117-7/16	37.5	37.9	19.8	5	LC50
	60120	PA/AP	55-15/16 / 26-11/16	51-13/16 / 24-5/8	116-1/4	117-7/16	44.9	45.4	26.5	5	LC50
	67120	PA/AP	62-15/16 / 30-5/16	58-13/16 / 28-1/8	116-1/4	117-7/16	50.5	51.1	31.5	5	LC50
	72120	PA/AP	67-15/16 / 32-11/16	63-13/16 / 30-5/8	116-1/4	117-7/16	54.6	55.2	35.1	5	LC50
	75120	PA/AP	71-9/16 / 34-5/8	67-9/16 / 32-1/2	116-1/4	117-7/16	57.6	58.2	37.8	5	LC50

(—) = Not applicable

(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.

(2) Water resistance is 0 psf for units with a low profile sill.

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

All doors and sidelights are glazed with tempered glass.

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



Pella® Reserve™ Traditional Out-Swing Patio Door

Design Data

Transoms — Fixed Frame Direct Set

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)			Performance Class & Grade ₂
		Dual-Pane Glazing		Triple-Pane Glazing	
		Annealed	Tempered	Annealed or Tempered	
2617	2.1	3	3	3	CW90
2625	3.3	3	3	3	CW90
3017	2.6	3	3	3	CW90
3025	4.0	3	3	3	CW90
3417	2.9	3	3	3	CW90
3425	4.6	3	3	3	CW90
3617	3.1	3	3	3	CW90
3625	4.9	3	3	3	CW90
3817	3.3	3	3	3	CW90
3825	5.2	3	3	3	CW90
5017	4.5	3	3	3	CW90
5025	7.1	3	3	3	CW75
6017	5.3	3	3	3	CW90
6025	8.5	3	3	3	CW55
6717	6.0	3	3	3	CW60
6725	9.5	3	3	3	CW50
7217	6.5	3	3	3	CW60
7225	10.3	3	3	3	CW45
7517	6.8	3	3	3	CW60
7525	10.8	3	3	3	CW45

Transoms — Fixed Casement

2617	1.5	2.5	3	3	CW50
2625	2.6	2.5	3	3	CW50
3017	1.9	2.5	3	3	CW50
3025	3.2	2.5	3	3	CW50
3417	2.2	2.5	3	3	CW50
3425	3.7	2.5	3	3	CW50
3617	2.4	2.5	3	3	CW50
3625	4.0	2.5	3	3	CW50
3817	2.5	2.5	3	3	CW50
3825	4.3	2.5	3	3	CW50
5017	3.5	2.5	3	3	CW50
5025	5.9	2.5	3	3	CW50
6017	4.2	2.5	3	3	CW50
6025	7.2	2.5	3	3	CW45/CW50
6717	4.7	2.5	3	3	R15 ₁
6725	8.1	2.5	3	3	R15 ₁
7217	5.1	—	3	3	R15 ₁
7225	8.8	2.5	3	3	R15 ₁
7517	5.4	—	3	3	R15 ₁
7525	9.3	2.5	3	3	R15 ₁

Transoms — Wide Stile Casement

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)			Performance Class & Grade ₂
		Dual-Pane Glazing		Triple-Pane Glazing	
		Annealed	Tempered	Annealed or Tempered	
2617	1.1	2.5	3	3	CW50
2625	1.8	2.5	3	3	CW50
3017	1.4	2.5	3	3	CW50
3025	2.5	2.5	3	3	CW50
3417	1.7	2.5	3	3	CW50
3425	2.9	2.5	3	3	CW50
3617	1.9	2.5	3	3	CW50
3625	3.3	2.5	3	3	CW50
3817	2.1	2.5	3	3	CW50
3825	3.5	2.5	3	3	CW50
5017	3.0	2.5	3	3	CW50
5025	5.1	2.5	3	3	CW50
6017	3.7	2.5	3	3	CW50
6025	6.4	2.5	3	3	CW50
6717	4.3	2.5	3	3	R15 ₁
6725	7.3	2.5	3	3	R15 ₁
7217	4.7	2.5	3	3	R15 ₁
7225	8.0	2.5	3	3	R15 ₁
7517	5.0	—	3	3	R15 ₁
7525	8.5	2.5	3	3	R15 ₁

Sidelights

1880	5.0	—	3	3	LC70
1882	5.2	—	3	3	LC70
1886	5.5	—	3	3	LC70
1896	6.3	—	3	3	LC70

(—) = Not applicable

(1) Units are not AAMA/WDMA performance certified. Units are engineered to meet the performance class and grade shown.

(2) Maximum performance when glazed with the appropriate glass thickness. Second number indicates Performance Upgrade Class and Grade, Performance upgrade requires specific installation methods to meet the stated performance.

All doors and sidelights are glazed with tempered glass.

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



Detailed Product Descriptions - 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], edge-banded and veneered on straight members. Curved members may have finger-jointed surfaces.
- Exterior surfaces are clad with aluminum at the head and jambs.
- Components are assembled with screws, staples and concealed corner locks.
- Frame depth is 5-7/8" (149mm) for a wall depth of 4-9/16" (116mm).
- Jamb extensions available to adapt door to wall thickness between 4-9/16" (116mm) to 7" (178mm).
- Optional factory-applied EnduraClad® exterior trim.
- Solid extruded aluminum sill with [Mill] [Nickel] [Bronze] [Black] [anodized to match anodized cladding] finish. [Mahogany threshold for mahogany door] [[oak] [composite black] threshold for [pine] [douglas fir] door].
– or –
- Sill is 1/2" low profile. Material and finish is extruded aluminum with [mill] [bronze] [anodized to match anodized cladding] finish.

Door panels

- 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 veneered with [clear pine] [mahogany] [douglas fir] on straight members. Curved members may have finger-jointed surfaces.
- Exterior surfaces are clad with extruded aluminum.
- Panel stiles and rails are three-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Units over 8' height have panel stiles constructed with LVL core with finger-jointed edge bands on both sides and veneered on both faces.
- Corners are urethane-silicone hybrid sealed and secured with metal fasteners.
- Panel thickness is 2-1/16" (52mm).
- Panel exterior profile is [ogee] [putty glaze], interior profile is ogee.

Weatherstripping

- Dual-durometer extruded polymer along jambs, head and sill.
- Dual-durometer extruded polymer rainscreen along top and sides of panel.
- Bristle rainscreen along bottom of panel.

Glazing System

- Quality fully-tempered float glass complying with ASTM C 1048.
- Custom and high altitude glazing available.
- Silicone-glazed, 13/16" double-pane, dual-seal, insulating glass
 - [Clear] [Obscure] [Reflective Bronze] with air.
 - [Obscure Low-E with [argon][air]] [Advanced] [AdvancedComfort] [SunDefense™] [SunDefense+] [NaturalSun] [NaturalSun+] Low-E [with argon]].
 - [Bronze] [Gray] [Green] Advanced Low-E [with argon].
– or –
- Silicone-glazed, 13/16" double-pane, dual-seal, laminated, insulating glass
 - Clear with air.
 - [Advanced Low-E] [SunDefense™ Low-E] with argon.
 - [Bronze] [Gray] [Green] Advanced Low-E with argon.
– or –
- Silicone-glazed, 1" triple-pane, dual-seal, insulating glass
 - [Obscure Low-E [with argon]] [Advanced] [SunDefense™] [NaturalSun] Low-E [with argon].
– or –
- Silicone-glazed, 7/8" double-pane, dual-seal, impact-resistant, laminated, insulating glass
 - Clear with air.
 - [Bronze] [Gray] [Green] with air.
 - [Advanced] [SunDefense™] 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] [factory prefinished [paint] [stain]¹].

Hardware

Hinges

- Adjustable hinges standard to assist in installation.
- Doors 6' 10" to 7' 0" frame height will have three (3) hinges.
- Doors over 7' 0" frame height up to and including 8' 0" frame height will have four (4) hinges.
- Doors over 8' 3" frame height up to and including 9' 0" frame height will have five (5) hinges.
- Doors over 9' 0" frame height will have six (6) hinges.
- Hinge color to match exterior cladding.

Locks

- Mortised and keyed multi-point locking system, center deadbolt and shoot-bolts at head and sill will engage simultaneously.
- Doors 8' 0" frame height and below will have one (1) strike at the head, one (1) strike at the sill and one (1) center deadbolt.
- Doors over 8' 0" frame height up to and including 10' 0" frame height will have one (1) strike at the head, one (1) strike at the sill and three (3) locking points at the stile.
- Solid brass handles and keylock with K-keyway cylinder.
- Key cylinder finish is [Brass] [Stainless Steel] [Matte Black].

Finish

- Hardware finish is (Handle, Hinges and Strike) [baked enamel [White] [Champagne] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel]] [Oil-Rubbed Bronze] [Distressed Bronze] [Distressed Nickel] [Polished Nickel] [Polished Chrome].

Optional Products

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] [Cross] [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 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] [Ivory] [Harvest] [Cordovan] [Brickstone].
 - Exterior color⁴ is [Standard]¹.

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

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

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

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



Detailed Product Descriptions - 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 and exterior surfaces are [pine] [mahogany]. Any curved members may have visible finger-jointed surfaces.
- Exterior surfaces are [pine: primed] [mahogany: [primed] [ready to stain]]. Curved members may have finger jointed surfaces.
- Overall frame depth is 4-9/16" (116mm).
- Jamb extensions available to adapt door to wall thickness between 4-9/16" (116mm) to 7" (178mm).
- Solid extruded aluminum sill with [Mill] [Nickel] [Bronze] [Black] [anodized [Clear] [Light Bronze] [Dark Bronze] [Black] [Custom₃]] finish. [Mahogany threshold for mahogany door] [[oak] [composite black] threshold for [pine] [douglas fir] door].
– or –
- Sill is 1/2" low profile. Material and finish are extruded aluminum with [mill] [Bronze] [anodized [Clear] [Light Bronze] [Dark Bronze] [Black] [Custom₃]] finish.

Door panels

- 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 veneered with [pine] [mahogany]. Any curved members may have visible finger-jointed surfaces.
- Exterior surfaces are [wood composite: factory primed] [mahogany [factory primed] [unfinished, ready for site finishing]].
- Panel stiles and rails are five-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Corners are urethane-silicone hybrid sealed and secured with metal fasteners.
- Panel thickness is 2-1/16" (52mm).

Weatherstripping

- Dual-durometer extruded polymer along jambs, head and sill.
- Dual durometer extruded polymer rainscreen along top and sides of panel.
- Bristle rainscreen along bottom of panel.

Glazing System

- Quality fully-tempered float glass complying with ASTM C 1048.
- Custom and high altitude glazing available.
- Silicone-glazed, 13/16" double-pane, dual-seal, insulating glass
 - [Clear] [Obscure] [Reflective Bronze] with air.
 - [Obscure Low-E [with argon]] [Advanced] [AdvancedComfort] [SunDefense™] [SunDefense+] [NaturalSun] [NaturalSun+] Low-E [with argon]].
 - [Bronze] [Gray] [Green] Advanced Low-E [with argon].
– or –
- Silicone-glazed, 13/16" double-pane, dual-seal, laminated, insulating glass
 - Clear with air.
 - [Advanced] [SunDefense™] Low-E with argon.
 - [Bronze] [Gray] [Green] Advanced Low-E with argon.
– or –
- Silicone-glazed, 1" triple-pane, dual-seal, insulating glass
 - [Obscure Low-E [with argon]] [Advanced] [SunDefense™] [NaturalSun] Low-E [with argon]].

Exterior

- [Wood composite: primed with one coat acrylic latex] [mahogany: [primed with one coat acrylic latex] [Unfinished, ready for site finishing]].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [paint] [stain]₃].

Hardware

Hinges

- Adjustable hinges standard to assist in installation.
- Doors 6' 10" to 7' 0" frame height will have three (3) hinges.
- Doors over 7' 0" frame height up to and including 8' 0" frame height will have four (4) hinges.
- Doors over 8' 3" frame height up to and including 9' 0" frame height will have five (5) hinges.
- Doors over 9' 0" frame height will have six (6) hinges.
- Hinge color is White on primed units, Brown on unfinished.

Locks

- Mortised and keyed multi-point locking system, center deadbolt and shoot-bolts at head and sill will engage simultaneously.
- Doors 8' 0" frame height and below will have one (1) strike at the head, one (1) strike at the sill and one (1) center deadbolt.
- Doors over 8' 0" frame height up to and including 10' 0" frame height will have one (1) strike at the head, one (1) strike at the sill and three (3) locking points at the stile.
- Solid brass handles and keylock with K-keyway cylinder.
- Key cylinder finish is [Brass] [Stainless Steel] [Matte Black].

Finish

- Hardware finish is (Handle, Hinges and Strike) [baked enamel [White] [Champagne] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel]] [Oil-Rubbed Bronze] [Distressed Bronze] [Distressed Nickel] [Polished Nickel] [Polished Chrome].

Optional Products

Grilles

- Integral Light Technology® Grilles
 - Interior grilles are [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]₃].
 - Exterior grilles are [5/8"] [7/8"] [1-1/4"] putty glaze profile that are solid [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
 - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian].
 - 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 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] [Tan₂] [Brown₂] [Putty₂] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₄ is [standard₃].

(1) Available in clear or Low-E insulating glass with argon, and obscure insulated glass.

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

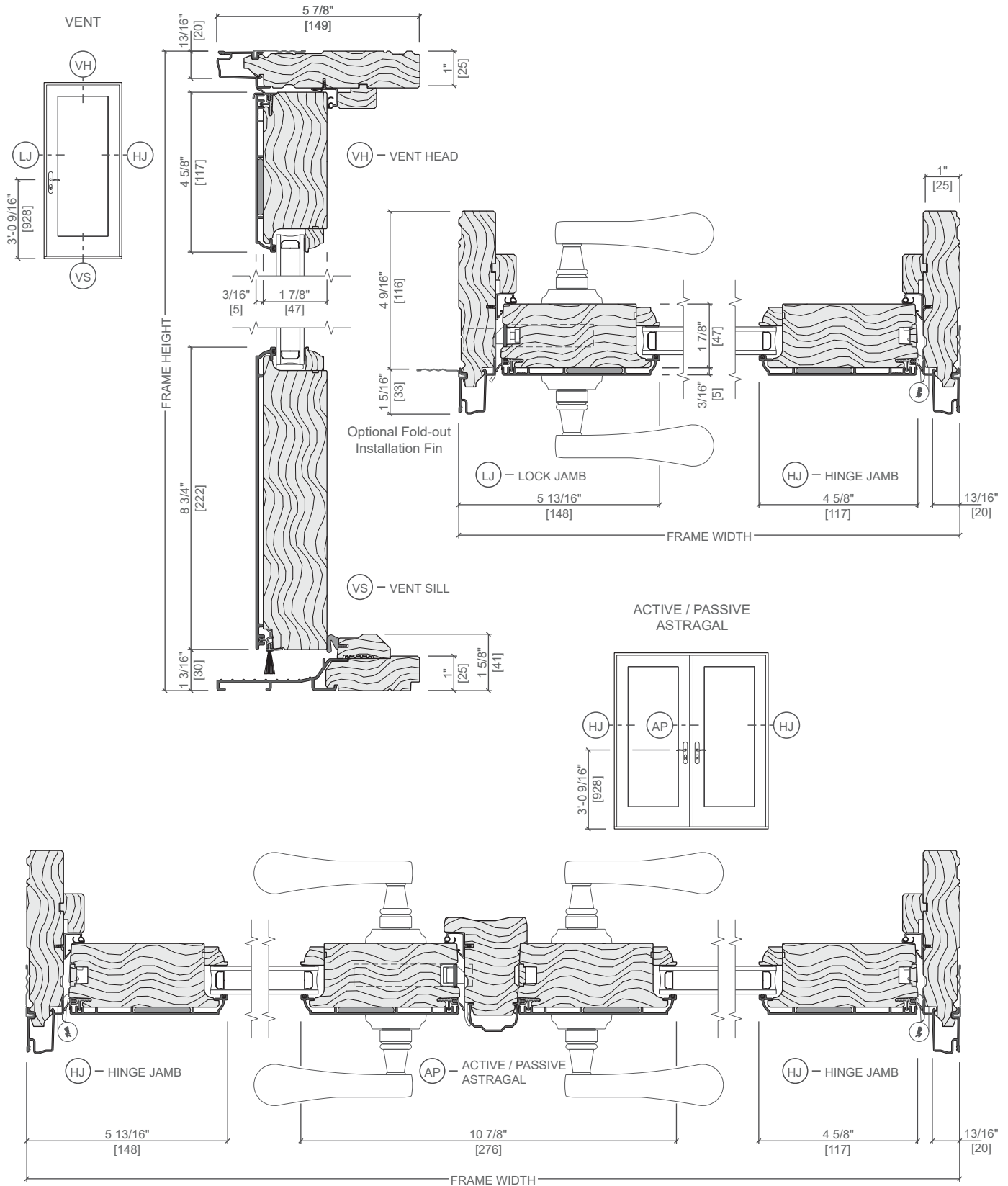
(3) Contact your local Pella sales representative for current color options.

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



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Aluminum-Clad Exterior, Ogee Exterior Profile



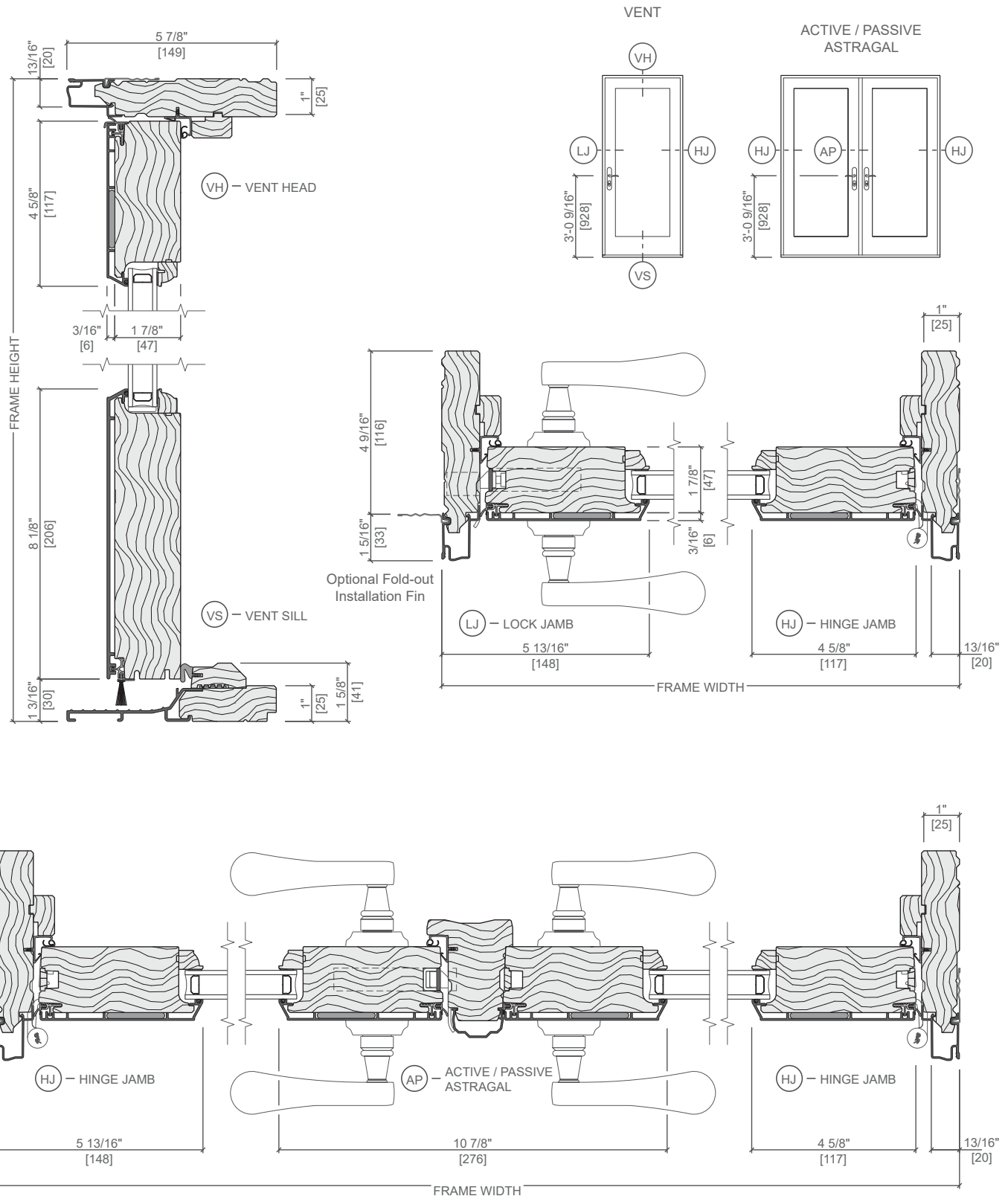
Scale 3" = 1' 0"

All dimensions are approximate.



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Aluminum-Clad Exterior, Putty Glaze Exterior Profile



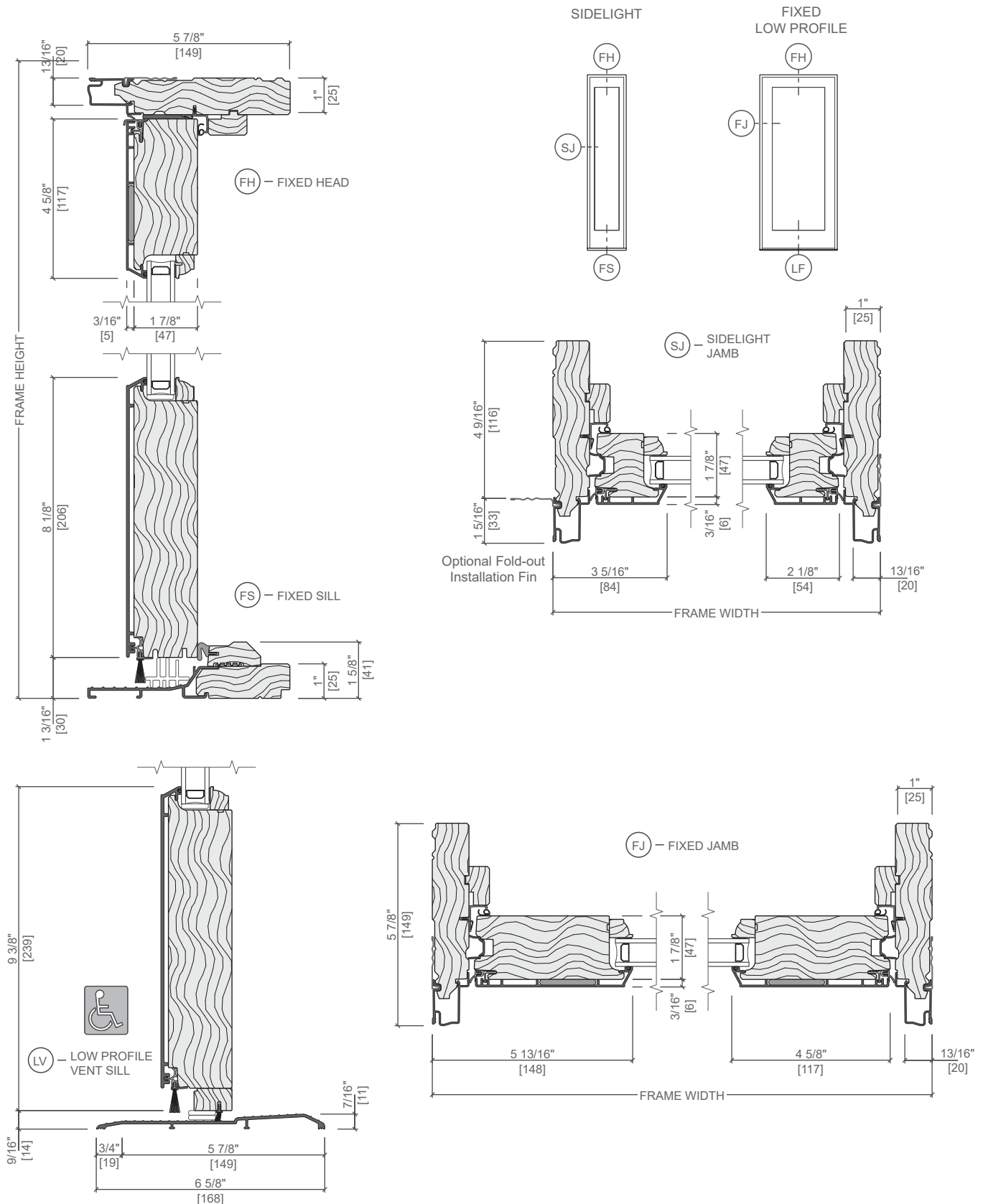
Scale 3" = 1' 0"

All dimensions are approximate.



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Aluminum-Clad Exterior, Putty Glaze Exterior Profile



Scale 3" = 1' 0"

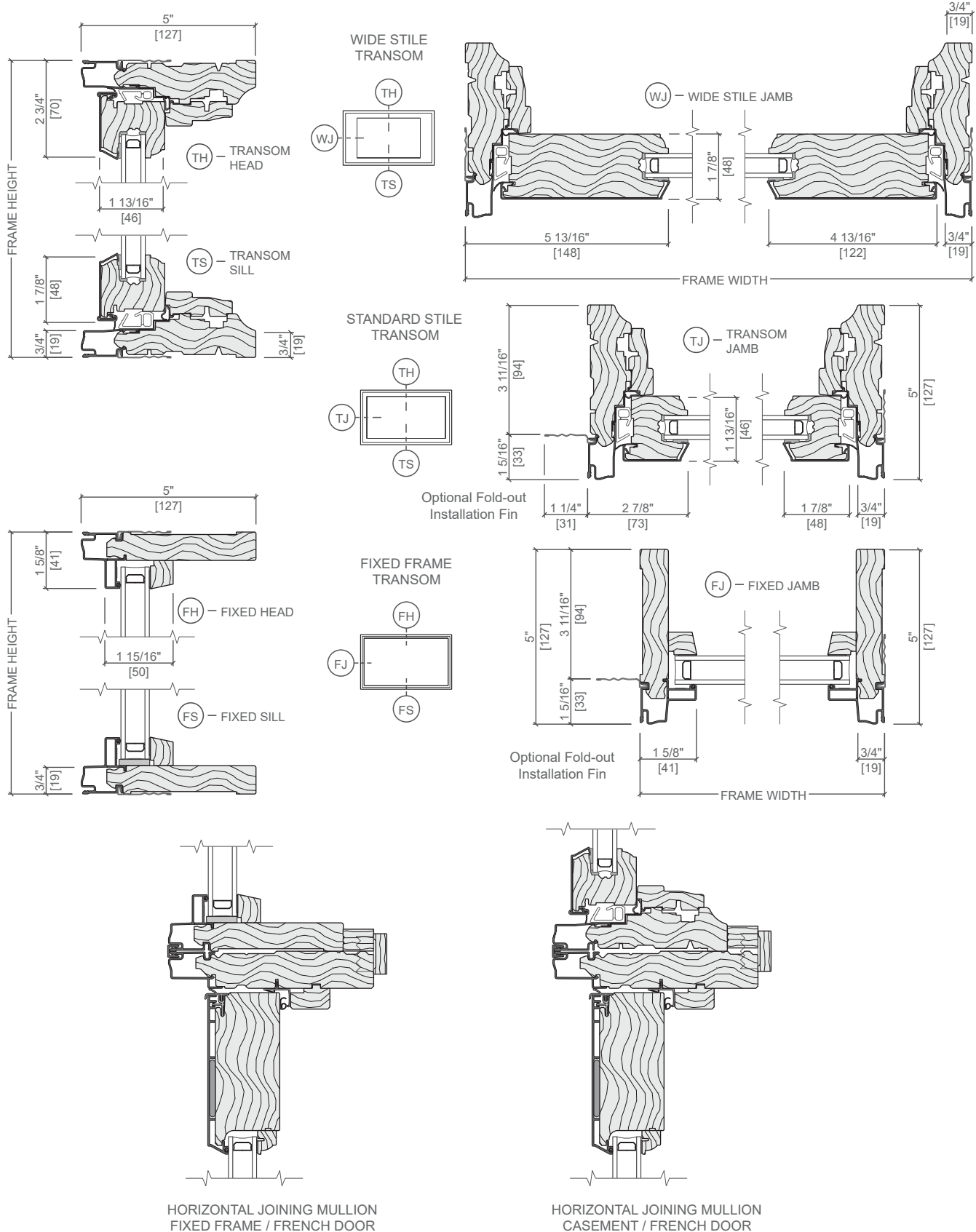
All dimensions are approximate.

Water resistance is 0 psf for units with a low profile sill.



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Aluminum-Clad Exterior, Putty Glaze Exterior Profile



Scale 3" = 1' 0"

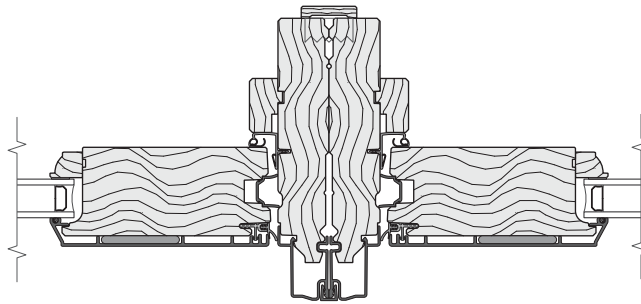
All dimensions are approximate.

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



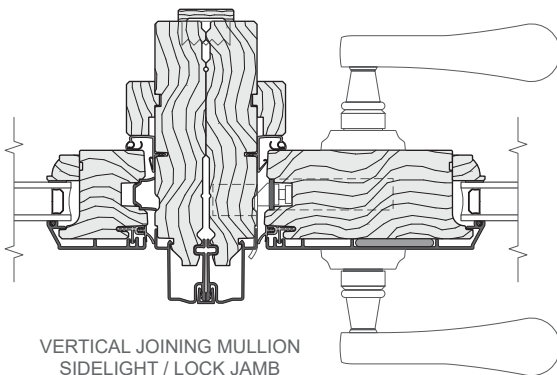
Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Aluminum-Clad Exterior, Putty Glaze Exterior Profile

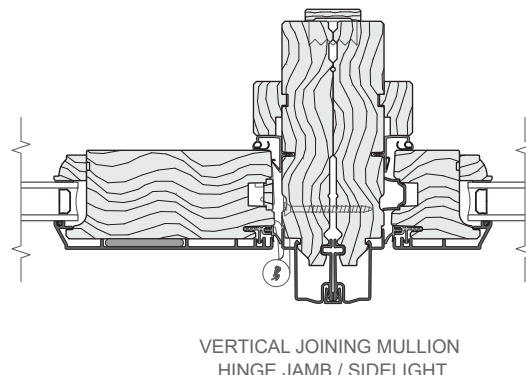


VERTICAL JOINING MULLION
FIXED PANELS

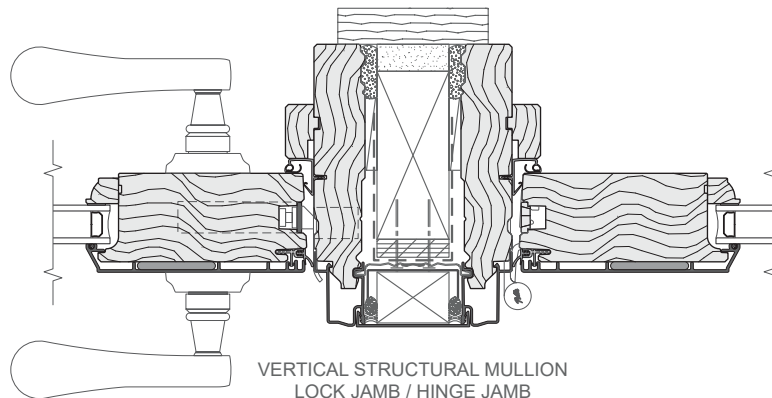
- Use standard joining mullions when joining fixed door panels.
- Sidelights or fixed panels may be joined directly to operable door panels. Composite must be installed with head drip fin and installation fins per standard installation instructions.
- Structural mullion must be used for all other combinations.



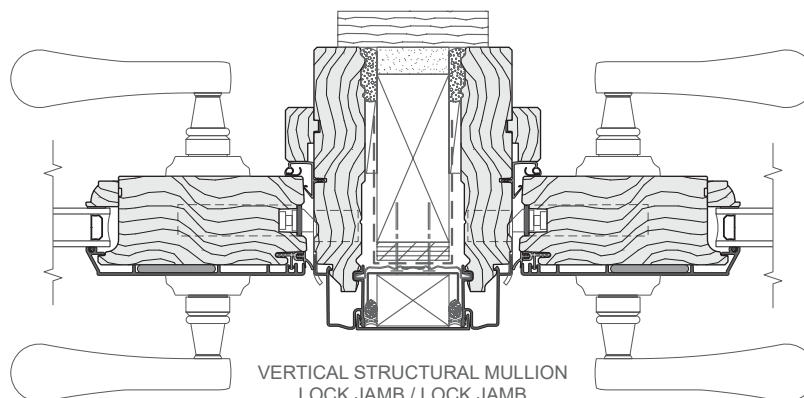
VERTICAL JOINING MULLION
SIDELIGHT / LOCK JAMB



VERTICAL JOINING MULLION
HINGE JAMB / SIDELIGHT



VERTICAL STRUCTURAL MULLION
LOCK JAMB / HINGE JAMB



VERTICAL STRUCTURAL MULLION
LOCK JAMB / LOCK JAMB

Scale 3" = 1' 0"

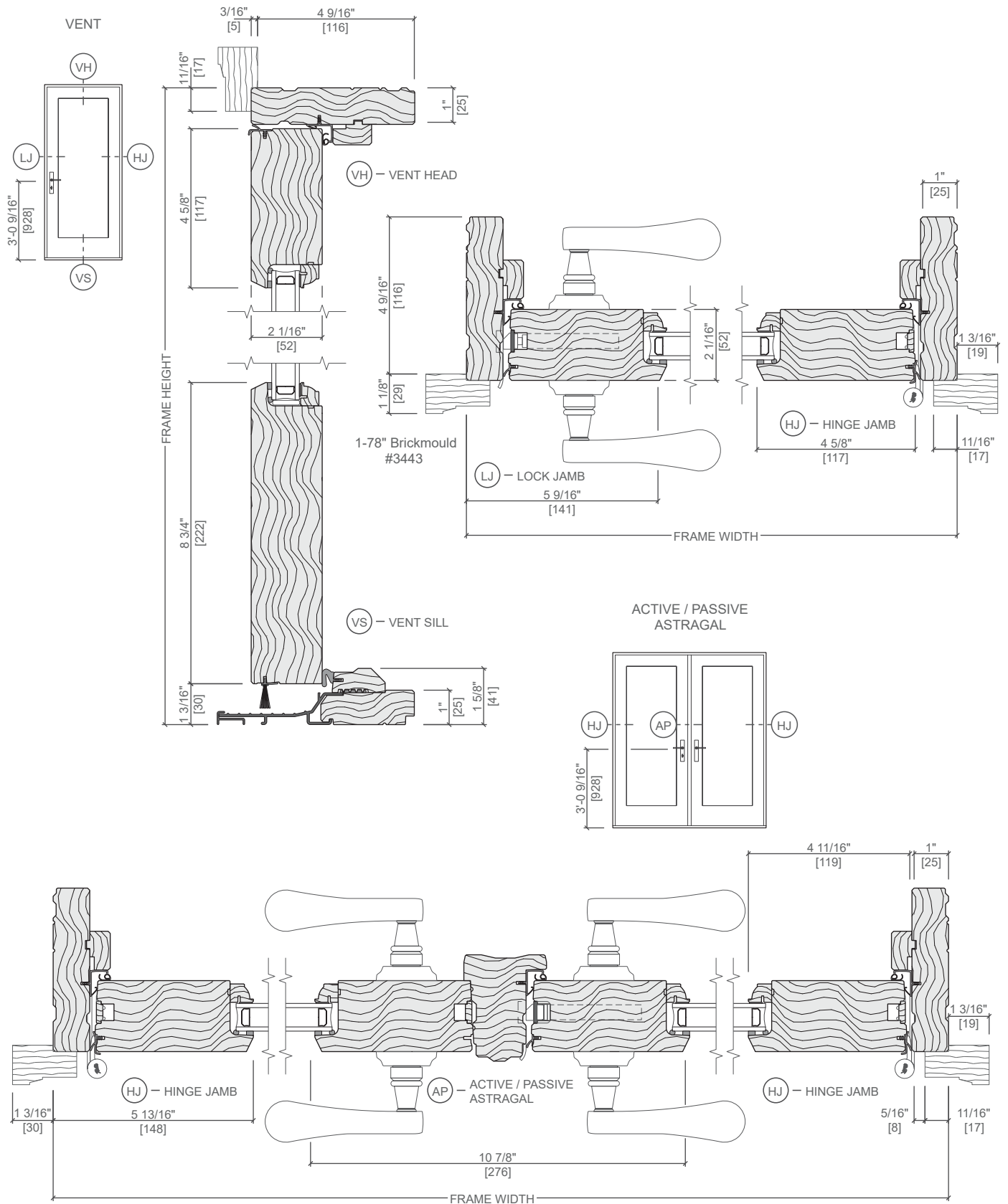
All dimensions are approximate.

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



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Wood Exterior, Putty Glaze Exterior Profile



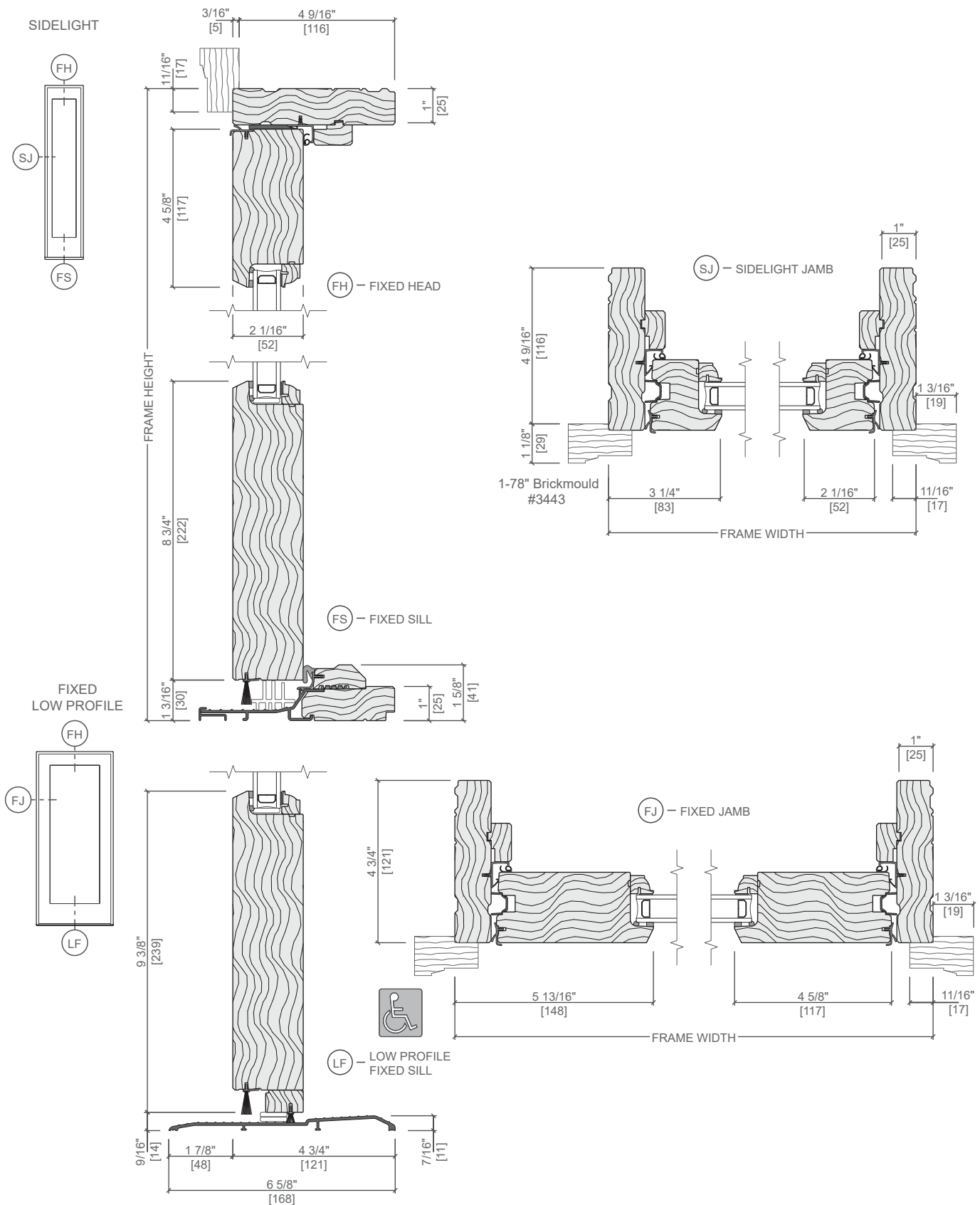
Scale 3" = 1' 0"

All dimensions are approximate.



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Wood Exterior, Putty Glaze Exterior Profile



Scale 3" = 1' 0"

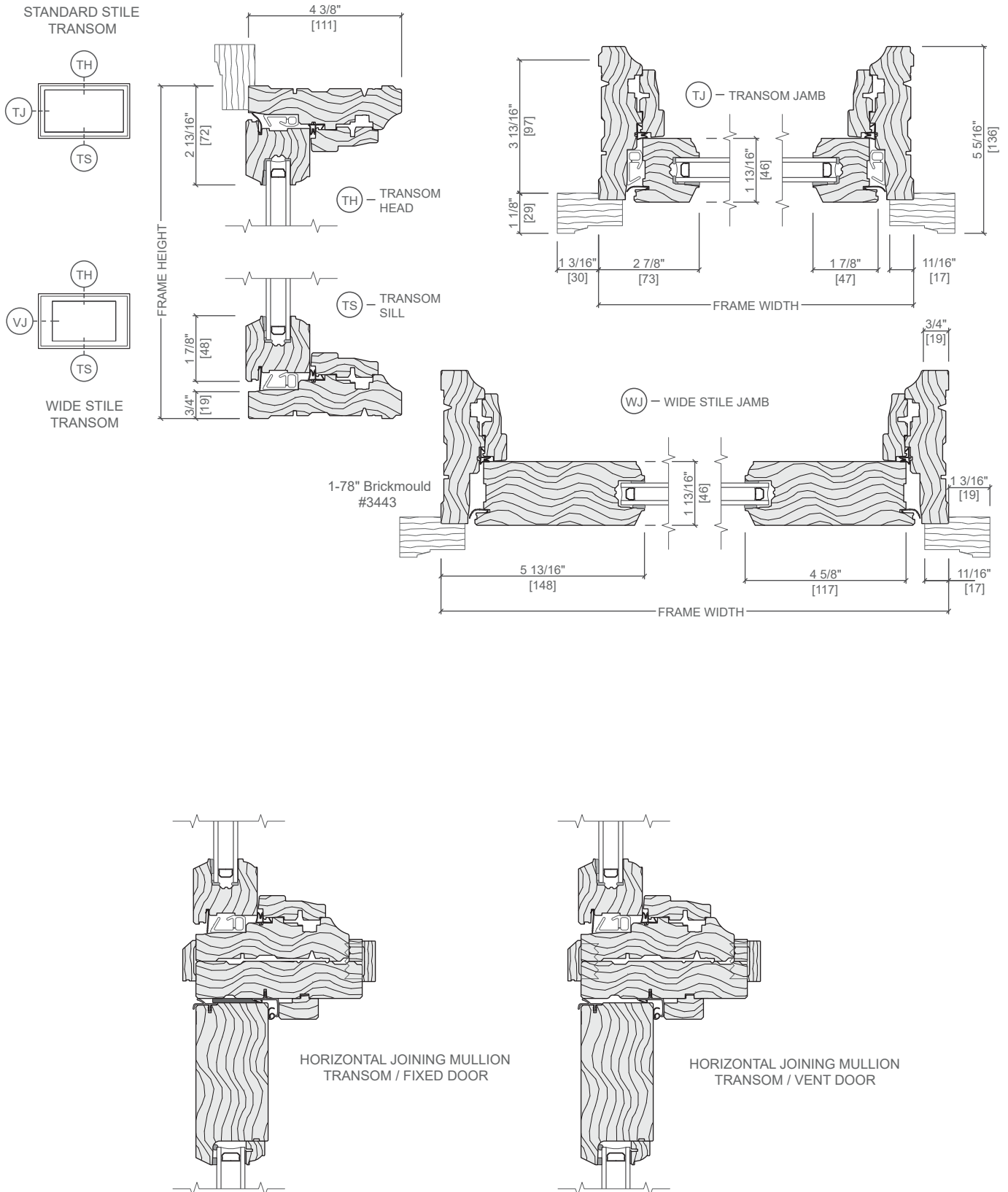
All dimensions are approximate.

Water resistance is 0 psf for units with a low profile sill.



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Wood Exterior, Putty Glaze Exterior Profile



Scale 3" = 1' 0"

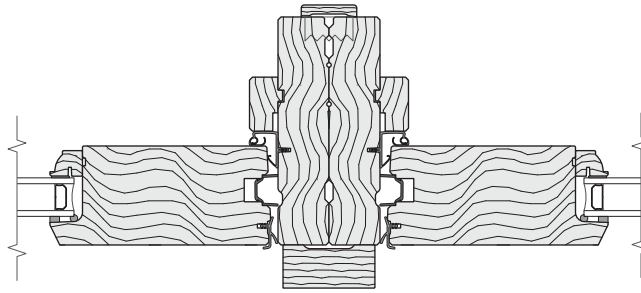
All dimensions are approximate.

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

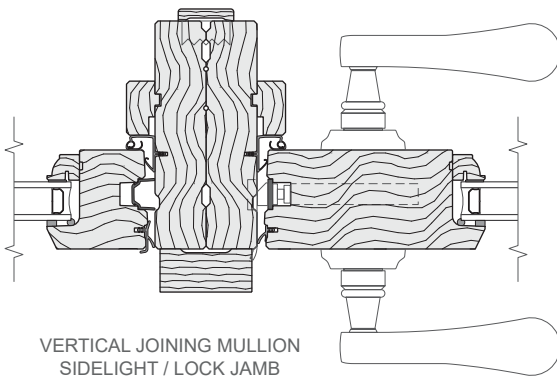


Pella® Reserve™ Traditional Out-Swing Patio Door

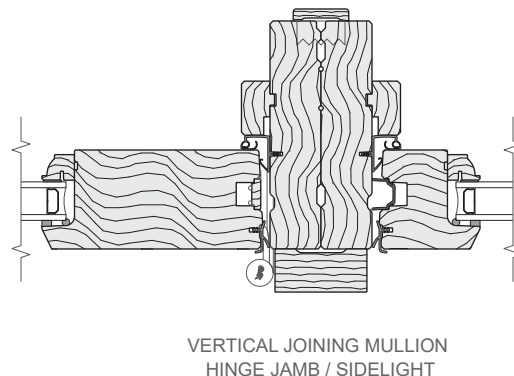
Unit Sections – Wood Exterior, Putty Glaze Exterior Profile



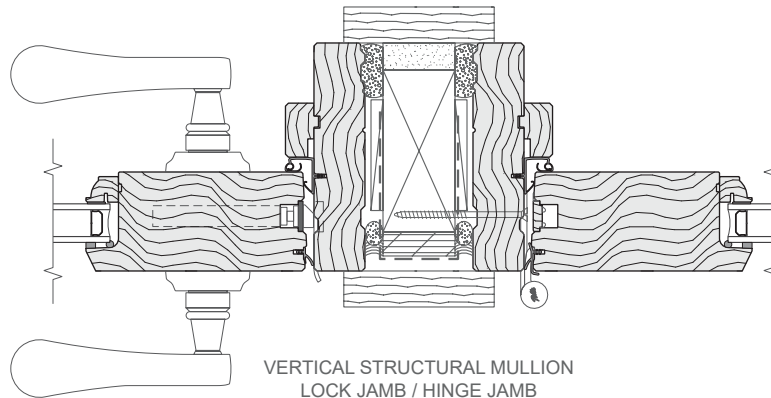
VERTICAL JOINING MULLION
FIXED PANELS



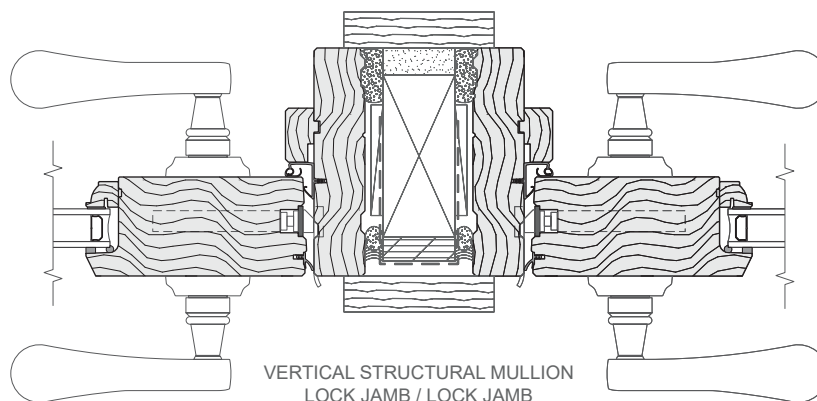
VERTICAL JOINING MULLION
SIDELIGHT / LOCK JAMB



VERTICAL JOINING MULLION
HINGE JAMB / SIDELIGHT



VERTICAL STRUCTURAL MULLION
LOCK JAMB / HINGE JAMB



VERTICAL STRUCTURAL MULLION
LOCK JAMB / LOCK JAMB

Scale 3" = 1' 0"

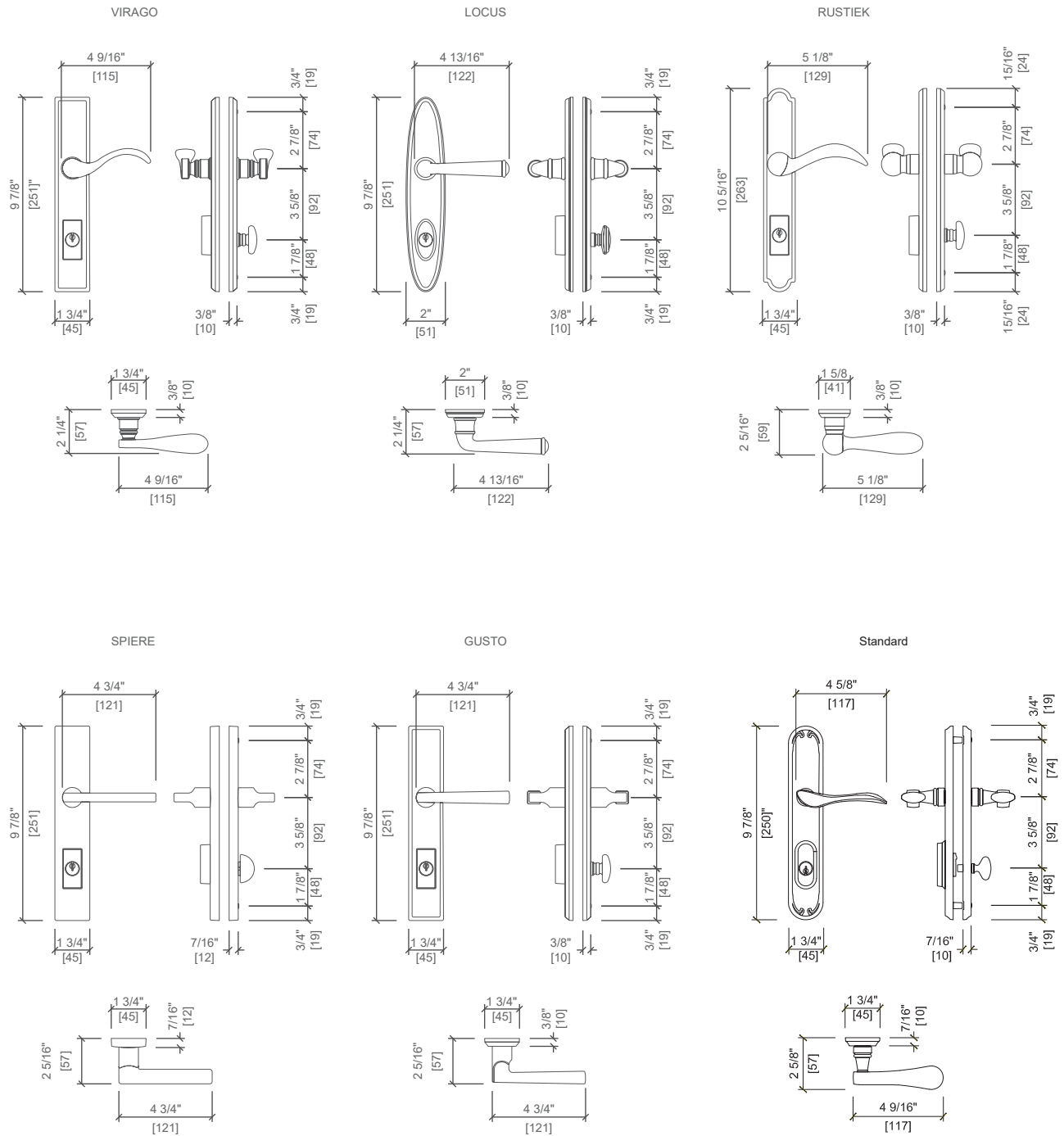
All dimensions are approximate.

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



Pella® Reserve™ Traditional Out-Swing Patio Door

Unit Sections – Handle Hardware Dimensions





Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	Glass (mm)		Gap Fill	Performance Values ¹			
		Ext.	Int.		U-Factor	SHGC	VLT	CR
Vent Dual-Pane Glazing - Aluminum-Clad Exterior								
13/16"	Clear IG	3	3	air	0.39	0.36	0.37	47
	with grilles-between-the-glass				0.39	0.31	0.31	47
	with integral grilles				0.40	0.31	0.31	47
13/16"	Advanced Low-E IG	3	3	argon	0.29	0.18	0.31	61
	with grilles-between-the-glass				0.29	0.15	0.26	61
	with integral grilles				0.30	0.15	0.26	61
13/16"	SunDefense™ Low-E IG	3	3	argon	0.29	0.13	0.29	62
	with grilles-between-the-glass				0.29	0.12	0.24	62
	with integral grilles				0.30	0.12	0.24	62
13/16"	AdvancedComfort Low-E IG	3	3	argon	0.27	0.17	0.31	48
	with grilles-between-the-glass				0.27	0.15	0.26	48
	with integral grilles				0.28	0.15	0.26	48
13/16"	NaturalSun Low-E IG	3	3	argon	0.30	0.32	0.36	60
	with grilles-between-the-glass				0.30	0.27	0.30	60
	with integral grilles				0.31	0.27	0.30	60
Tinted Glazing								
13/16"	Bronze Advanced Low-E IG	5	3	argon	0.29	0.16	0.20	62
	with integral grilles with grilles				0.29	0.14	0.17	62
	with integral grilles				0.30	0.14	0.17	62
13/16"	Gray Advanced Low-E IG	5	3	argon	0.29	0.15	0.17	62
	with grilles-between-the-glass				0.29	0.13	0.15	62
	with integral grilles				0.30	0.13	0.15	62
13/16"	Green Advanced Low-E IG	5	3	argon	0.29	0.18	0.28	62
	with grilles-between-the-glass				0.29	0.15	0.28	62
	with integral grilles				0.30	0.15	0.23	62
High Altitude Glazing								
13/16"	Advanced Low-E IG	3	3	air	0.31	0.18	0.31	58
	with grilles-between-the-glass				0.31	0.15	0.26	58
	with integral grilles				0.32	0.15	0.26	58
13/16"	SunDefense™ Low-E IG	3	3	air	0.31	0.14	0.29	58
	with grilles-between-the-glass				0.31	0.14	0.24	58
	with integral grilles				0.32	0.12	0.24	58
13/16"	AdvancedComfort Low-E IG	3	3	air	0.28	0.17	0.31	45
	with grilles-between-the-glass				0.28	0.15	0.26	45
	with integral grilles				0.29	0.15	0.26	45
13/16"	NaturalSun Low-E IG	3	3	air	0.32	0.32	0.36	57
	with grilles-between-the-glass				0.32	0.27	0.30	57
	with integral grilles				0.33	0.27	0.30	57

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

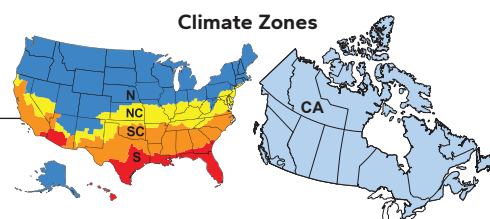
ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

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

U-Factor values shown are based on a standard sill and pine interior.

Visit www.energystar.gov for Energy Star guidelines.





Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	Glass (mm)			Gap Fill	Performance Values ₁			
		Ext.	Mid	Int.		U-Factor	SHGC	VLT	CR
Vent Triple-Pane Glazing - Aluminum-Clad Exterior									
1"	Advanced Low-E IG	3	3	3	argon	0.25	0.16	0.28	62
	with grilles-between-the-glass					0.26	0.14	0.23	62
	with integral grilles					0.26	0.14	0.23	62
1"	SunDefense™ Low-E IG	3	3	3	argon	0.25	0.12	0.26	62
	with grilles-between-the-glass					0.26	0.11	0.21	62
	with integral grilles					0.26	0.11	0.21	62
1"	NaturalSun Low-E IG	3	3	3	argon	0.26	0.26	0.31	62
	with grilles-between-the-glass					0.26	0.22	0.26	62
	with integral grilles					0.26	0.22	0.26	62
High Altitude Glazing									
1"	Advanced Low-E IG	3	3	3	air	0.28	0.16	0.28	62
	with grilles-between-the-glass					0.28	0.14	0.23	62
	with integral grilles					0.28	0.14	0.23	62
1"	SunDefense Low-E IG	3	3	3	air	0.27	0.13	0.26	62
	with grilles-between-the-glass					0.27	0.11	0.21	62
	with integral grilles					0.28	0.11	0.21	62
1"	NaturalSun Low-E IG	3	3	3	air	0.28	0.26	0.31	62
	with grilles-between-the-glass					0.28	0.22	0.26	62
	with integral grilles					0.28	0.22	0.26	62

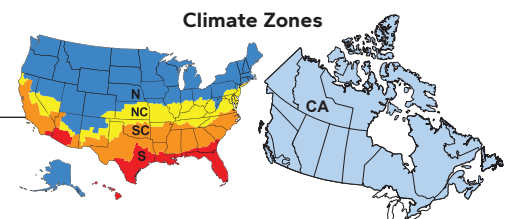
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

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U-Factor values shown are based on a standard sill and pine interior.

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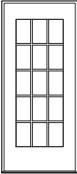
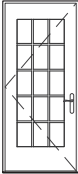
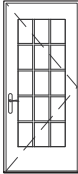
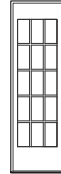
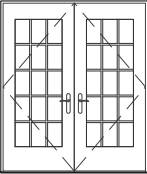
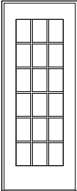
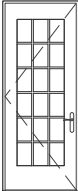
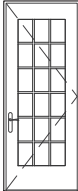
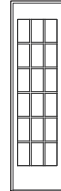
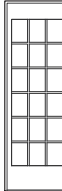
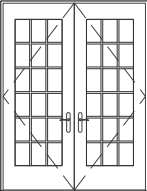




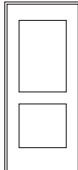
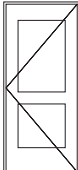
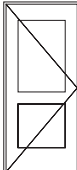
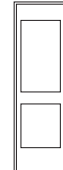
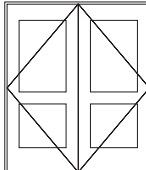
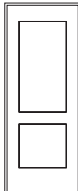
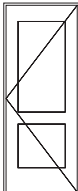
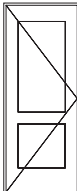
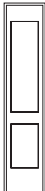
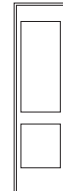
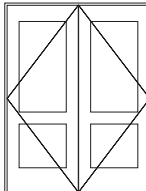
Pella® Reserve™ Commercial Out-Swing Door

Size Tables

7' 2" and 8' 0" Vent and Fixed Units - Clad

		(981) (962)	(981) (962)	(981) (962)	(540) (521)	(692) (673)	(845) (826)	(1 886) (1 867)
Opening		3' 2 5/8"	3' 2 5/8"	3' 2 5/8"	1' 9 1/4"	2' 3 1/4"	2' 9 1/4"	6' 2 1/4"
Frame		3' 1 7/8"	3' 1 7/8"	3' 1 7/8"	1' 8 1/2"	2' 2 1/2"	2' 8 1/2"	6' 1 1/2"
(2 197) (2 184)	7' 2 1/2"							
	7' 2"	FIXED 3886	LEFT 3886	RIGHT 3886	SIDELIGHT 2186	SIDELIGHT 2786	SIDELIGHT 3386	ACTIVE-ACTIVE 7486
(2 438) (2 426)	8' 0"							
	7' 11 1/2"	FIXED 3896	LEFT 3896	RIGHT 3896	SIDELIGHT 2196	SIDELIGHT 2796	SIDELIGHT 3396	ACTIVE-ACTIVE 7496

7' 2" and 8' 0" Vent and Fixed Units - Clad

Opening		3' 2 5/8" (981)	3' 2 5/8" (981)	3' 2 5/8" (981)	1' 9 1/4" (540)	2' 3 1/4" (692)	2' 9 1/4" (845)	6' 2 1/4" (1 886)
Frame		3' 1 7/8" (962)	3' 1 7/8" (962)	3' 1 7/8" (962)	1' 8 1/2" (521)	2' 2 1/2" (673)	2' 8 1/2" (826)	6' 1 1/2" (1 867)
(2 197) (2 184)	7' 2 1/2"							
	7' 2"	FIXED 3886	LEFT 3886	RIGHT 3886	SIDELIGHT 2186	SIDELIGHT 2786	SIDELIGHT 3386	ACTIVE-ACTIVE 7486
(2 438) (2 426)	8' 0"							
	7' 11 1/2"	FIXED 3896	LEFT 3896	RIGHT 3896	SIDELIGHT 2196	SIDELIGHT 2796	SIDELIGHT 3396	ACTIVE-ACTIVE 7496

Not to scale.

CL = Distance from bottom of door to center line of intermediate rail is 38".

Masonry dimensions are with Pella's 1-7/8" brickmould.

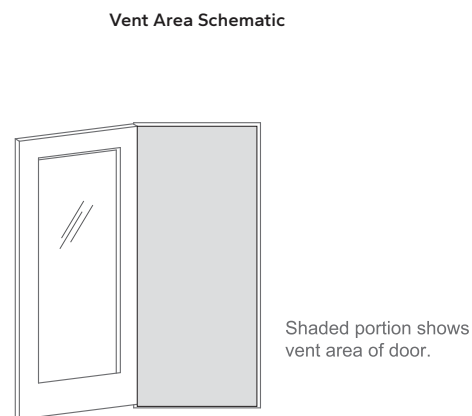
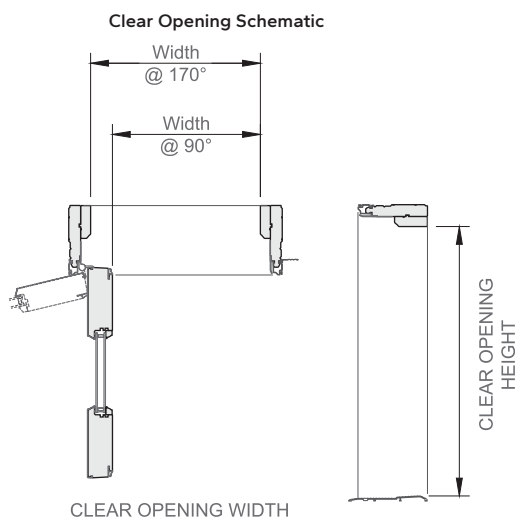
To determine masonry openings when using Pella's 3-1/2" brickmould, add an additional 3-1/4" to width and 1-5/8" to height.



Pella® Reserve™ Commercial Out-Swing Door

Design Data

Commercial Aluminum EnduraClad® Exterior Aluminum Cladding								
	Clad Units		Clear Opening (Inches)			Visible Glass Ft²		Standard Glass Thickness (mm) Tempered
			Width ¹		Height	Without Rail	With Rail	
			Open 170°	Open 90°				
7' 2" DOORS	3886	F	—	—	—	10.3	9.3	3
	3886	L/R	34	32-5/16	83-3/4	10.3	9.3	3
	7486	AA	70 / 34-15/16	65-7/8 / 32-7/8	83-3/4	20.6	18.7	3
8' 0" DOORS	3896	F	—	—	—	11.8	10.9	3
	3896	L/R	34	32-5/16	93-3/4	11.8	10.9	3
	7496	AA	70 / 34-15/16	65-7/8 / 32-7/8	93-3/4	23.7	21.8	3
SIDELIGHTS	2186	S/L	—	—	—	6.1	5.5	3
	2196	S/L	—	—	—	7.0	6.5	3
	2786	S/L	—	—	—	8.8	7.9	3
	2796	S/L	—	—	—	10.1	9.2	3
	3386	S/L	—	—	—	11.4	10.3	3
	3396	S/L	—	—	—	13.1	12.0	3



(—) = Not applicable

(1) All dimensions are approximate to the nearest 1/16". The second value, where shown, provides the clear opening for the active panel only.

All doors are glazed with 3mm tempered glass.

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



Hardware Parameters and Recommendations

Pella Reserve Commercial Out-Swing Doors are not supplied with locking hardware, closers, panic hardware, push plates or kick plates. Use the following guidelines when selecting these hardware items from your hardware supplier.

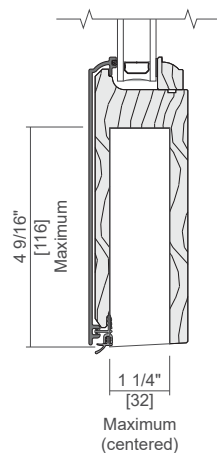
Mortise Locks: Maximum mortise rout dimensions are shown below for commercial doors with standard stile dimensions. Maximum height of the mortise rout is 10 inches. Routs should be sealed before the locks are installed for added moisture protection.

Cylinder Locks: Maximum diameter of cylinder lock bore is 2-1/8". Minimum backset is 2-3/8"; maximum backset is 2-3/4".

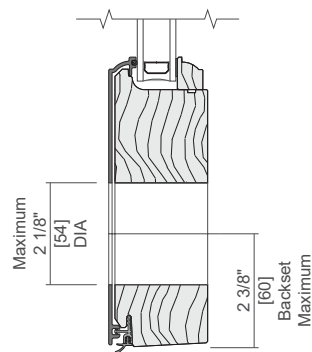
Door Closers: When door closers are being used, Pella recommends the use of surface applied door closers with mounting devices that anchor into the structural header of the rough opening. Devices that anchor to the door frame only are not approved for use on Pella doors. Concealed closers that are routed into the top of the door panel are not recommended.

Exit Devices: When exit devices are used, Pella recommends the use of surface mounted vertical rod hardware. Concealed vertical rod hardware is not recommended.

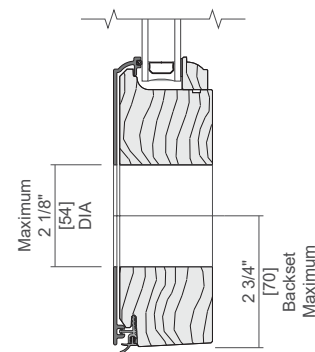
Kick plates and push plates: In commercial applications, Pella recommends the use of kick plates and push plates to protect the wood veneer.



6-1/16" STILE



4-5/8" STILE



6-1/16" STILE



Detailed Product Descriptions - 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], edge-banded and veneered.
- Exterior surfaces are clad with aluminum at the head and jambs.
- Components are assembled with screws, staples and concealed corner locks.
- Sill is 1/2" low profile. Extruded aluminum with [mill] [bronze] [anodized to match anodized cladding] finish.
- Frame depth is 5-7/8" (149mm) for a wall depth of 4-9/16" (116mm).
- Jamb extensions available to adapt door to wall thickness between 4-9/16" (116mm) to 7" (178mm).

Door panels

- 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 veneered with [clear pine] [mahogany] [douglas fir].
- Exterior surfaces are clad with extruded aluminum.
- Panel stiles and rails are five-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Panel lock stiles on all units and all stiles on units over 8' height are constructed with LVL core with finger-jointed edge bands on both sides and veneered on both faces.
- Corners are urethane-silicone hybrid sealed and secured with metal fasteners.
- Panel thickness is 2-1/16" (52mm).
- Panel exterior profile is [ogee] [putty glaze], interior profile is ogee.

Weatherstripping

- Dual-durometer extruded polymer along jambs, head and sill.
- Dual-durometer extruded polymer rainscreen along top and sides of panel.
- Bristle rainscreen along bottom of panel.

Glazing System

- Quality fully-tempered float glass complying with ASTM C 1048.
- Custom and high altitude glazing available.
- Silicone-glazed, 13/16" double-pane, dual-seal, insulating glass
 - [Clear] [Obscure] [Reflective Bronze] with air.
 - [Obscure Low-E [with argon]] [[Advanced] [[AdvancedComfort] [SunDefense™] [NaturalSun] Low-E [with argon]].
 - [Bronze] [Gray] [Green] Advanced Low-E [with argon].

- or -
- Silicone-glazed, 13/16" double-pane, dual-seal, laminated, insulating glass
 - Clear with air.
 - [Advanced] [SunDefense™] Low-E with argon.
 - [Bronze] [Gray] [Green] Advanced Low-E with argon.

- or -
- Silicone-glazed, 1" triple-pane, dual-seal, insulating glass
 - [Obscure Low-E [with argon]] [[Advanced] [SunDefense™] [NaturalSun] Low-E [with argon]].

Exterior

- Exterior aluminum surfaces are finished with EnduraClad® multi-step, baked-on finish.
 - Color is [Standard] [feature] [custom]₁.

- or -
- Exterior aluminum surfaces are finished with EnduraClad® Plus protective finish with 70% fluoropolymer resin, multi-step baked-on finish.
 - Color is [Standard] [feature] [custom]₁.

Interior

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

Hardware

Hinges

- Ball-bearing hinges
 - Doors 6' 10" and under frame height will have three (3) ball-bearing hinges.
 - Doors over 6' 10" frame height up to and including 8' 0" frame height will have four (4) ball bearing hinges.
 - Hinge finish [Colonial Bronze (Light Bronze, Dark Bronze, Black anodized sill finishes)] [Satin Nickel (Mill or Clear anodized sill finishes)] to complement the finish of the sill.

- or -
- Adjustable hinges to assist in installation (not available with anodized cladding).
 - Doors 6' 10" to 7' 0" frame height will have three (3) hinges.
 - Doors over 7' 0" frame height up to and including 8' 0" frame height will have four (4) hinges.
 - Doors over 8' 3" frame height up to and including 9' 0" frame height will have five (5) hinges.
 - Doors over 9' 0" frame height will have six (6) hinges.
 - Hinge color to match exterior cladding.

Optional Products

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] [Cross] [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 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] [Ivory] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₄ is [Standard₁].

Intermediate Rail and Flat Panel Options

- 6" Intermediate rail is three-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Clad Flat panel exterior is .080" Aluminum. Color is [Standard] [feature] [custom]₁.
- Flat panel is an LVL construction with Interior exposed surfaces are veneered with [pine] [mahogany] [douglas fir].
- Standard placement: 6" Intermediate Rail 38" OC from the bottom of the door sill.

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



Detailed Product Descriptions - 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 and exterior surfaces are [pine] [mahogany].
- Sill is 1/2" low profile. Material and finish are extruded aluminum with [mill] [Bronze] [anodized [Clear] [Light Bronze] [Dark Bronze] [Black] [Custom₁]] finish.
- Overall frame depth is 4-9/16" (116mm).
- Jamb extensions available to adapt door to wall thickness between 4-9/16" (116mm) to 7" (178mm).

Door panels

- 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 veneered with [pine] [mahogany].
- Panel stiles and rails are five-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Corners are urethane-silicone hybrid sealed and secured with metal fasteners.
- Panel thickness is 2-1/16" (52mm).

Weatherstripping

- Dual-durometer extruded polymer along jambs, head and sill.
- Panel extensions available to adapt door to wall thickness between 4-9/16" (116mm) to 7" (178mm).
- Bristle rainscreen along bottom of panel.

Glazing System

- Quality fully-tempered float glass complying with ASTM C 1048.
- Custom and high altitude glazing available.
- Silicone-glazed, 13/16" double-pane, dual-seal, insulating glass
 - [Clear] [Obscure] [Reflective Bronze] with air.
 - [Obscure Low-E [with argon]] [[Advanced] [[AdvancedComfort] [SunDefense™] [NaturalSun] Low-E [with argon]].
 - [Bronze] [Gray] [Green] Advanced Low-E [with argon].

- or -
- Silicone-glazed, 13/16" double-pane, dual-seal, laminated, insulating glass
 - Clear with air.
 - [Advanced] [SunDefense™] Low-E with argon.
 - [Bronze] [Gray] [Green] Advanced Low-E with argon.

- or -
- Silicone-glazed, 1" triple-pane, dual-seal, insulating glass
 - [Obscure Low-E [with argon]] [[Advanced] [SunDefense™] [NaturalSun] Low-E [with argon]].

Exterior

- [Wood composite: primed with one coat acrylic latex] [mahogany: [unfinished, ready for site finishing] [primed with one coat acrylic latex]].

Interior

- [Pine [primed with one coat acrylic latex] [Unfinished, ready for site finishing] [prefinished stained₁]] [mahogany: Unfinished, ready for site finishing].

Hardware

Hinges

- Ball-bearing hinges
 - Doors 6' 10" and under frame height will have three (3) ball-bearing hinges.
 - Doors over 6' 10" frame height up to and including 8' 0" frame height will have four (4) ball bearing hinges.
 - Hinge finish [Colonial Bronze (Light Bronze, Dark Bronze, Black anodized sill finishes)] [Satin Nickel (Mill or Clear anodized sill finishes)] to complement the finish of the sill.

- or -
- Adjustable hinges to assist in installation,
 - Doors 6' 10" to 7' 0" frame height will have three (3) hinges.
 - Doors over 7' 0" frame height up to and including 8' 0" frame height will have four (4) hinges.
 - Doors over 8' 3" frame height up to and including 9' 0" frame height will have five (5) hinges.
 - Doors over 9' 0" frame height will have six (6) hinges.

Optional Products

Grilles

- Integral Light Technology® grilles
 - Interior grilles are [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 [5/8"] [7/8"] [1-1/4"] putty glaze profile that are solid [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
 - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian].
 - 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 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] [Ivory] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₄ is [standard₁].

Intermediate Rail and Flat Panel Options

- 6" Intermediate rail is three-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and veneered on both sides.
- Wood Flat panel exterior is an LVL construction with exposed surfaces that are veneered with [pine] [mahogany]. Exteriors are [pine: primed] [mahogany [primed] [unfinished, ready for site finishing]].
- Flat panel is an LVL construction with Interior exposed surfaces are veneered with [pine] [mahogany].
- Standard placement: 6" Intermediate Rail 38" OC from the bottom of the door sill.

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

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

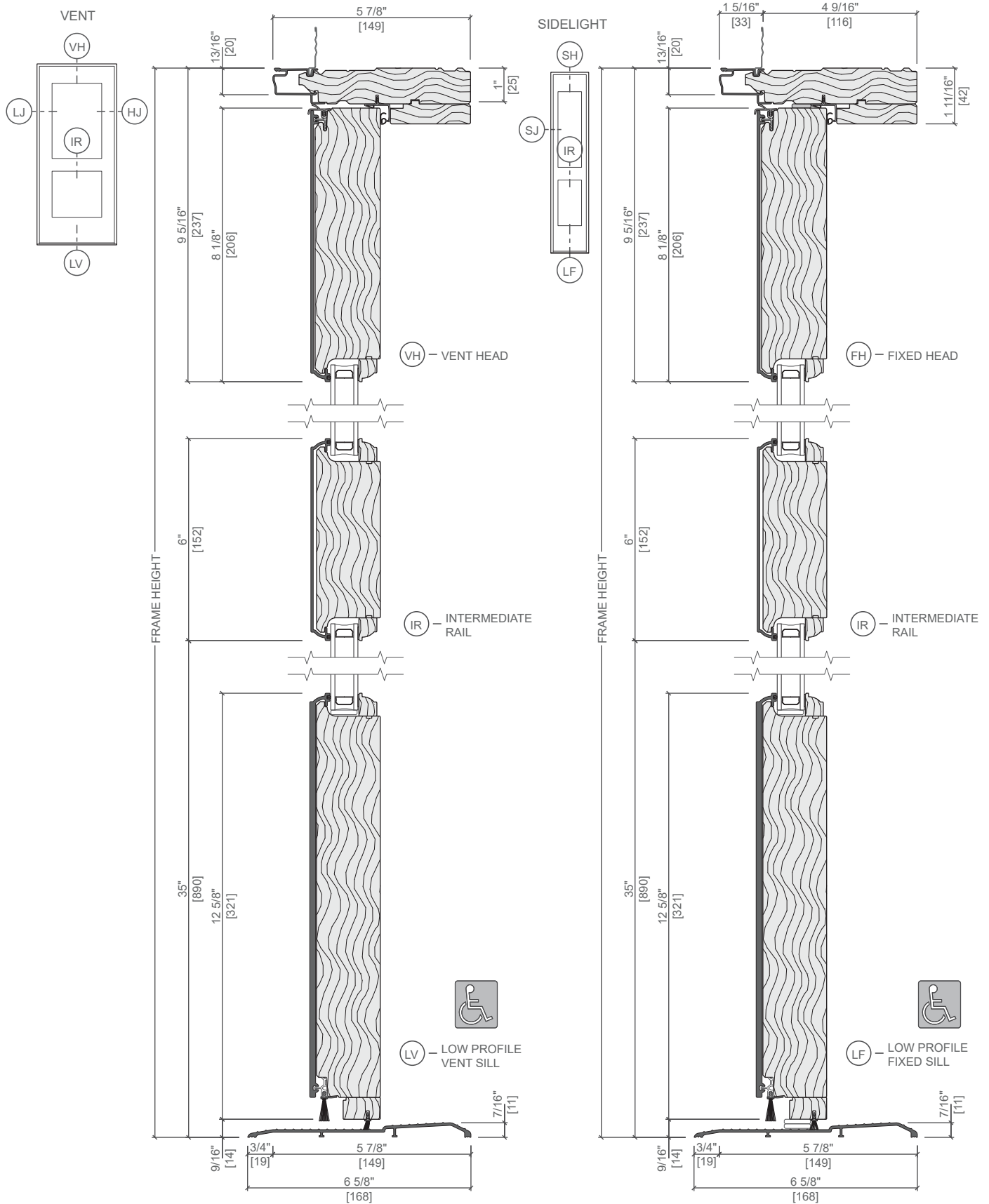
(3) Tan, Brown or Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

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



Pella® Reserve™ Commercial Out-Swing Door

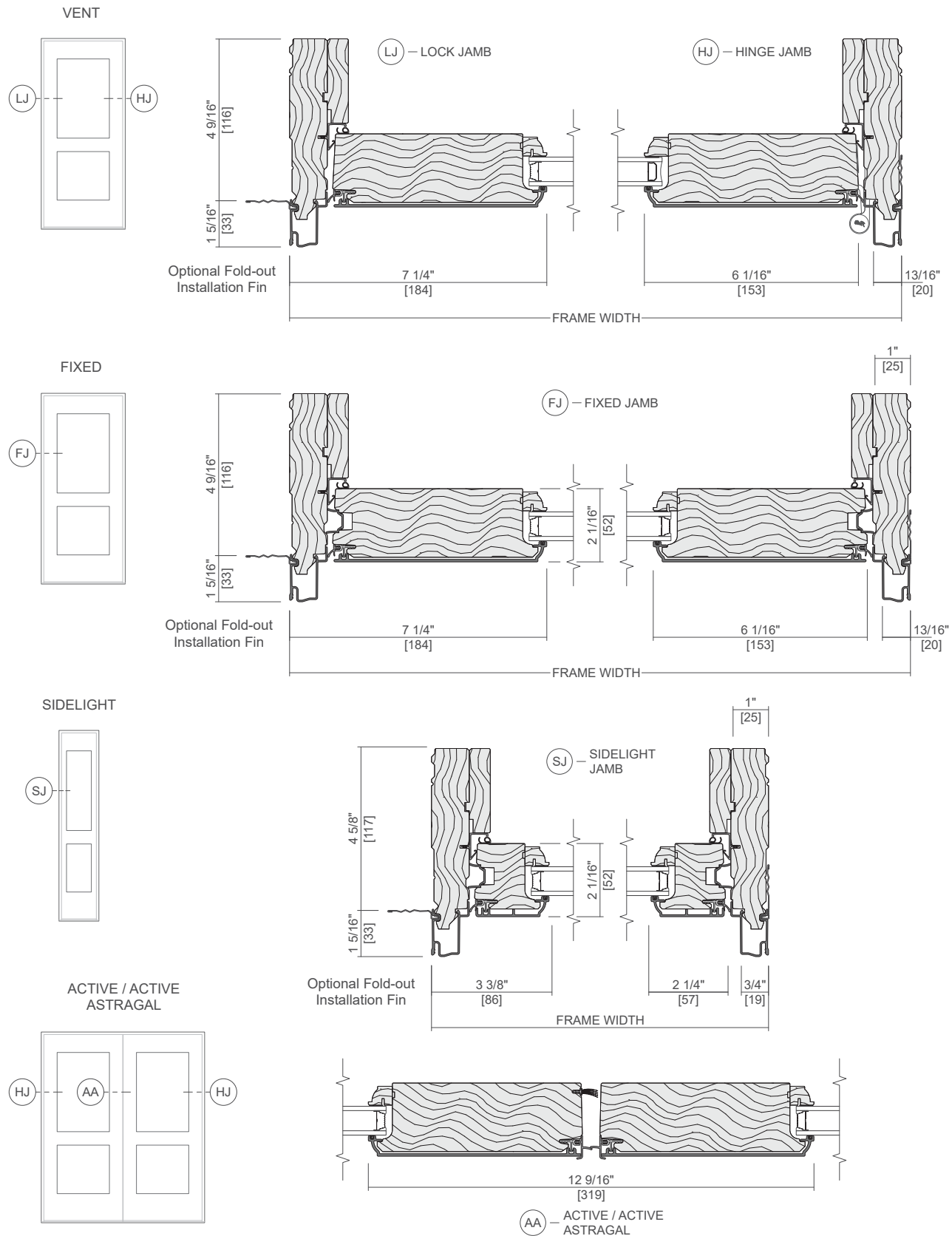
Unit Sections - Aluminum-Clad Exterior





Pella® Reserve™ Commercial Out-Swing Door

Unit Sections - Aluminum-Clad Exterior



Scale 3" = 1' 0"

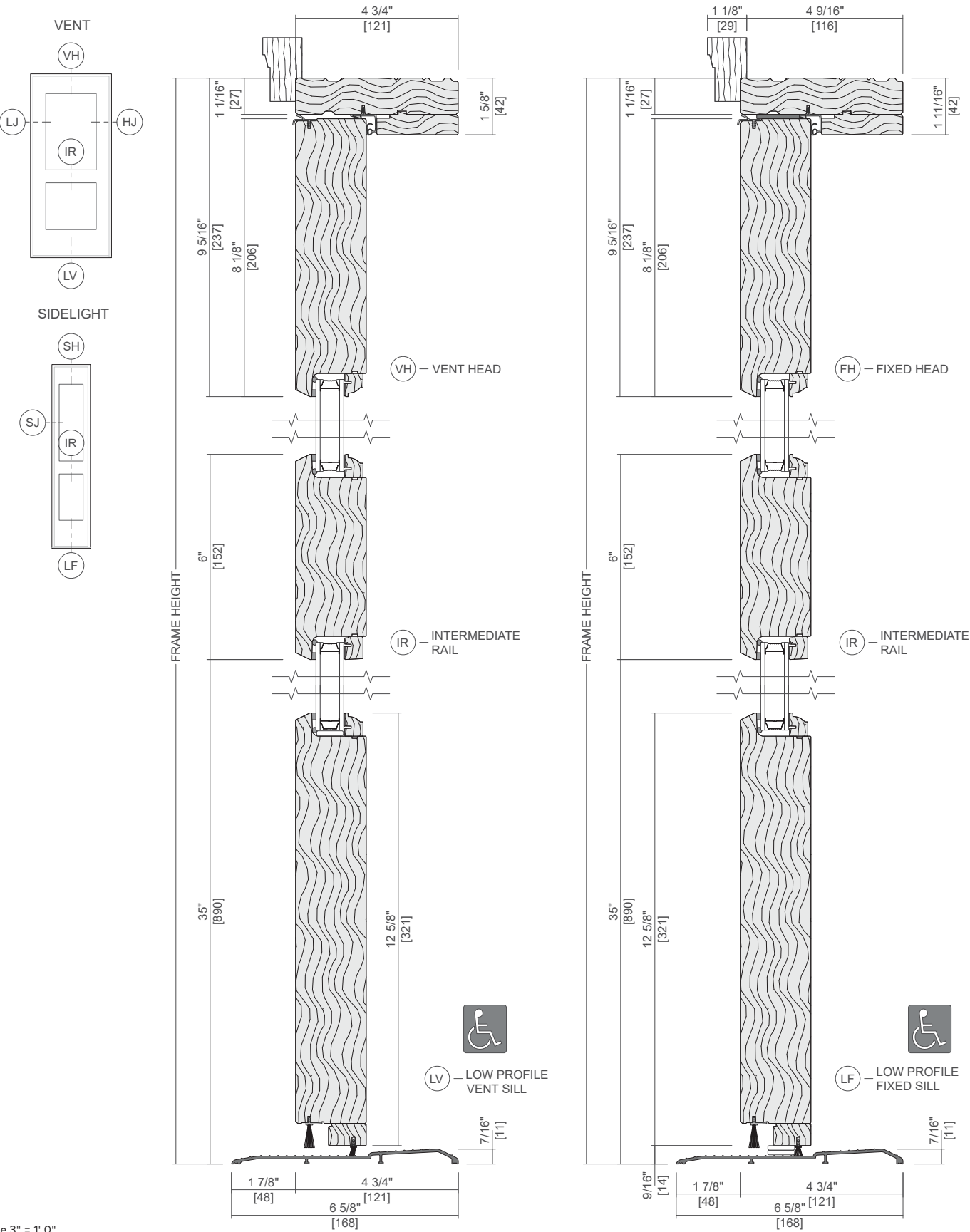
All dimensions are approximate.

Rev. 07/17/2024



Pella® Reserve™ Commercial Out-Swing Door

Unit Sections - Wood Exterior



Scale 3" = 1' 0"

All dimensions are approximate.

Water resistance is 0 psf for units with a low profile sill.

Rev. 07/17/2024

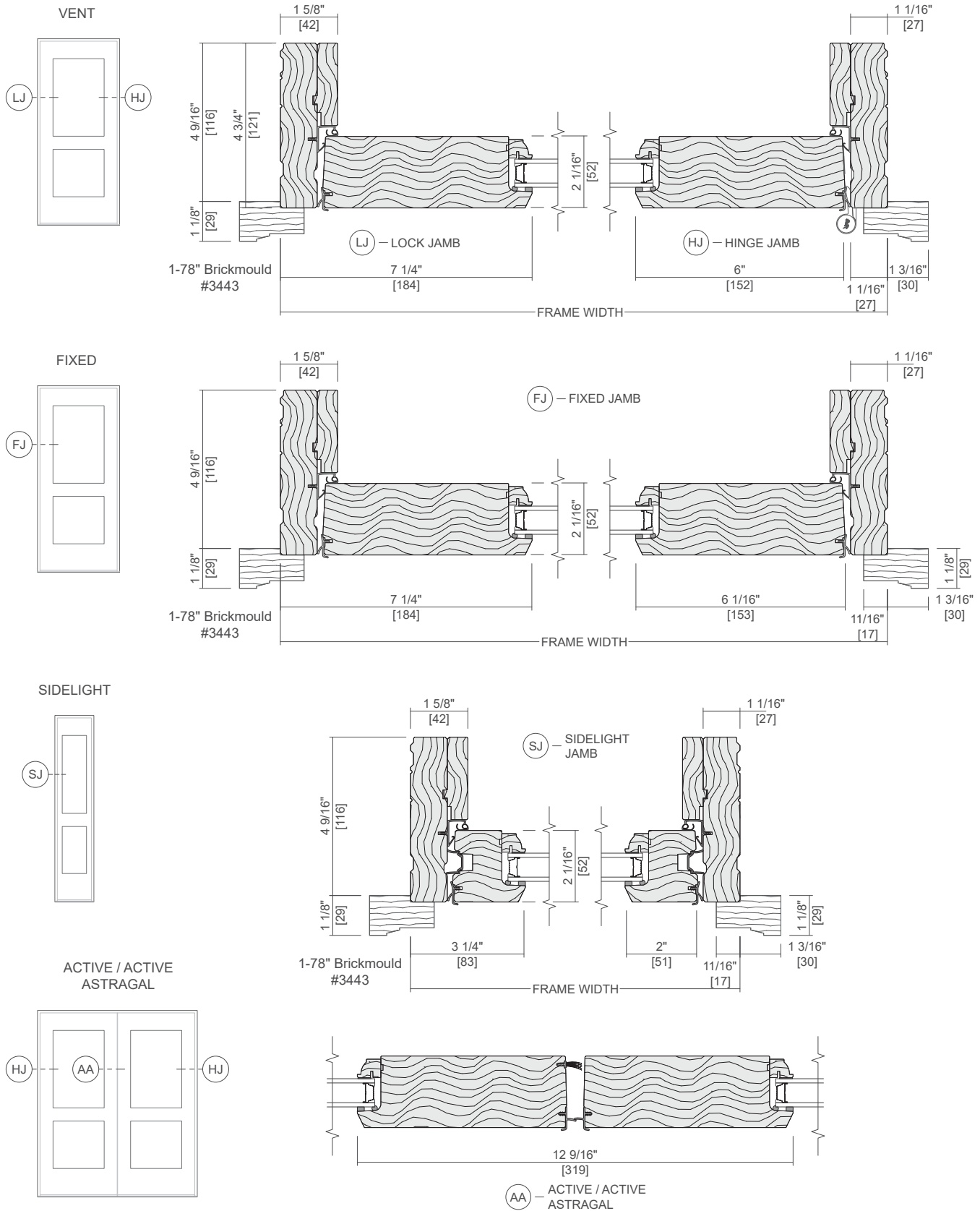
Pella 2026 Architectural Design Manual | Division 08 - Openings | Windows and Doors | www.Pella.com

OSD-45



Pella® Reserve™ Commercial Out-Swing Door

Unit Sections - Wood Exterior



Scale 3" = 1' 0"

All dimensions are approximate.

Rev. 07/17/2024

Landing Material Information

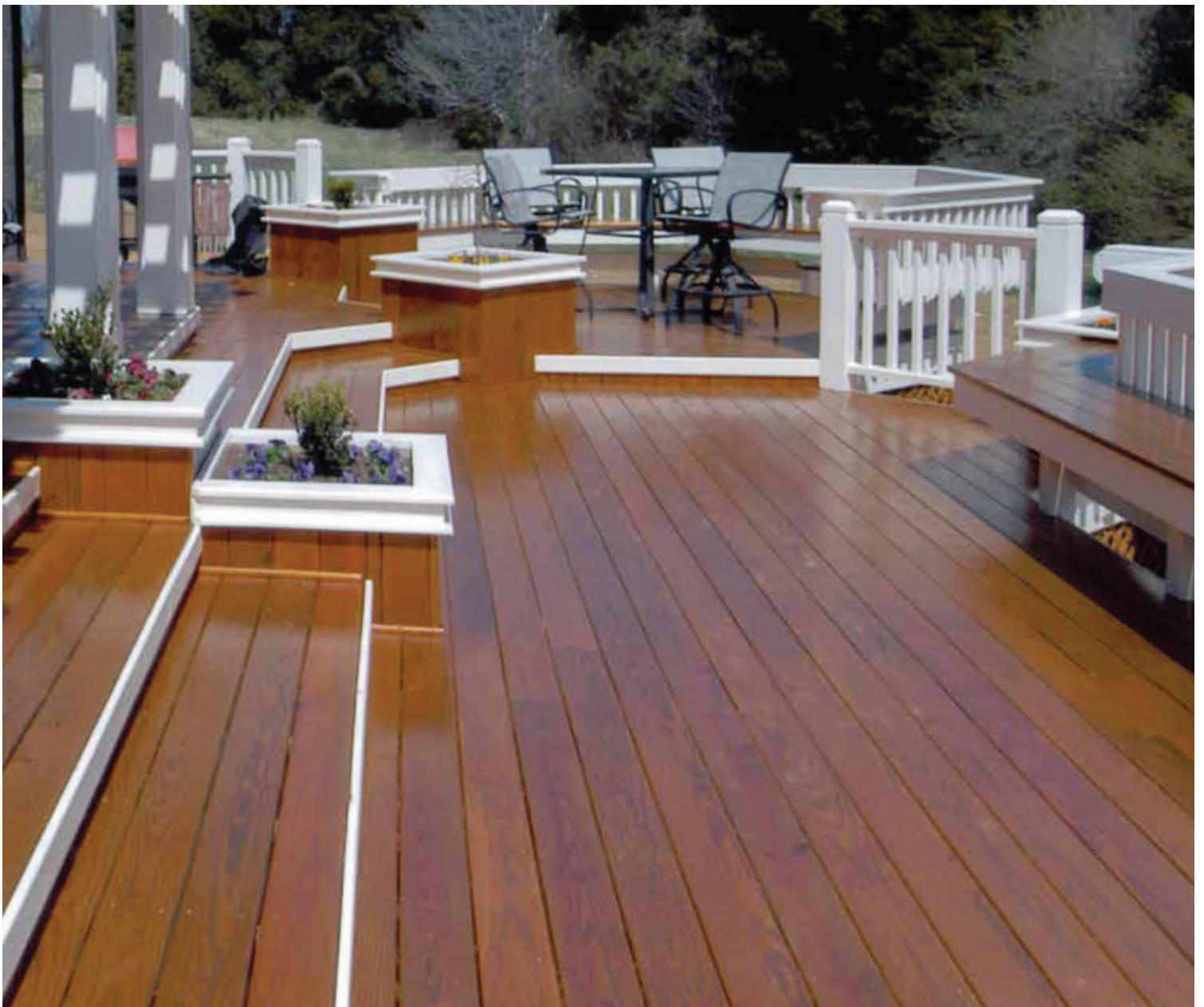


SOUTHERN YELLOW PINE DECKS



BEAUTIFUL—DURABLE—RENEWABLE

AmericanSoftwoods.com



CONTENTS

2	Quality
3	Safety first
4	Design considerations
5	Choosing your decking
6-7	Building a deck
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10	Weathering and surface finishes
11	The Green choice



QUALITY

Naturally good-looking, durable, easy to construct and environmentally-friendly, there's nothing like a timber deck to extend your living space outdoors. Southern Yellow Pine, the most popular choice for decking in America, is the natural choice in Europe too, where plentiful supplies of this beautiful, pressure-treated, certified timber are available.

Exposed to the elements, decks are external structural floors that must be able to support the loads placed on them for many years. Careful material selection, good design and installation practice, together with periodic maintenance, will ensure a timber deck provides a long and safe service life.

Quality

All Southern Yellow Pine decking components are manufactured in accordance with an independent, national quality scheme. This scheme not only ensures that the components themselves are manufactured consistently but that the level of preservative protection given to the component is appropriate to its end use. For example, posts to be embedded in the ground need a higher level of preservative protection than components such as deck boards that are out of ground contact. Under the Southern Yellow Pine quality scheme, every component must be either ink stamped or labelled to identify its quality and source. These marks are your reassurance that you are buying a quality material that is fit for purpose.



SAFETY FIRST



As with other construction materials, always put safety first when working with any kind of wood – treated or untreated. Avoid prolonged inhalation of sawdust. Use a dust mask and eye protection when sawing, sanding or machining wood. Wear gloves. After working with wood, wash exposed areas of skin thoroughly. Wash work garments separately from other clothing before reuse.

Treated wood should not be burned on open fires, in wood-burning stoves, fireplaces or residential boilers. Never use treated wood on barbecues. Dispose of off-cuts responsibly at your local authority's recycling facility.

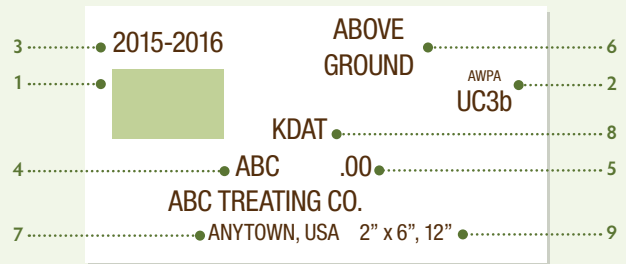
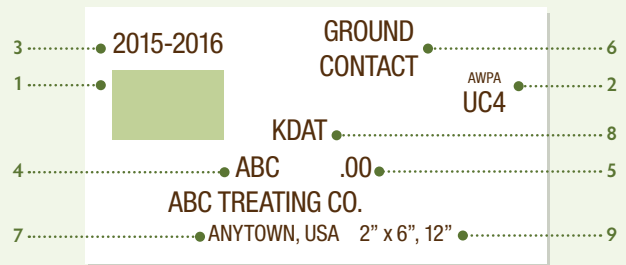
Inspect your deck periodically

Inspect the condition of the deck surface, structural connections and balustrade railings at least once a year. Wood is a natural material and seasonal wetting and drying can cause fixings to loosen. Tighten any loose fixing and hammer home any nail heads that may have started to protrude.

Preservatives

Southern Yellow Pine is particularly suitable for pressure treatment, providing predictable long-term durability and resistance to decay and insect attack. The latest generation of preservatives is approved for use by government agencies in the USA, UK and all major wood-using markets worldwide as safe for use in every construction environment, including contact with people, plants and pets. For more information please refer to Pressure-Treated Southern Yellow Pine at www.SouthernPineGlobal.com/publications

Typical quality marks for treated timber
(plastic and stamp or ink stamp)



1. ALSC inspection agency mark
2. AWA Use Category
3. Year of treatment, if required
4. Preservative used for treatment
5. Preservative retention
6. Exposure category
7. Treating company and location
8. DRY or KDAT (Kiln-dried after treatment), if applicable
9. Length and/or class

Tip:

Make sure the wood is suitably treated for its intended exposure. Check plastic end tags or ink stamps for 'above ground' or 'ground contact'.

DESIGN CONSIDERATIONS

The location and design of a deck can be influenced by several factors:

- How it will be used (for sunbathing, large parties, family relaxation, outdoor cooking)
- How it relates to the existing structure (compatibility with function, environment, style)
- Sunlight (sun or shade)
- Privacy (screen certain areas, avoid street noise, landscaping)
- Terrain (elevated deck, ground level, split level)
- Access to and from the home (adjoining kitchen, dining room, living room or bedroom)

Once the basic size, shape and location of the deck are determined, check with your Local Authority to find out if planning or building control consent is required prior to work commencing. Local Authority requirements may vary from one region to another so it's advisable not to purchase any materials or start work until you know that your deck is permitted.

It's important to locate the deck so as to avoid obstructing access to any buried electricity cables or manhole covers. If in doubt, contact utility providers before any digging begins to determine the exact location of buried cables or pipes to which access may be required in the future. Create a hatch in the deck to permit access to manhole covers if necessary.



Tip:

Where board ends abut one another, install an additional length of joist (measuring at least the width of three boards) to provide adequate support for fixings.



Photo © Manchester Deck Co.

CHOOSING YOUR DECKING

Southern Yellow Pine decking is produced in a variety of profiles and grades, along with water-repellent and kiln-dried after treatment (KDAT) options. See Table 1. Please note that Southern Yellow Pine decking components are manufactured in Imperial sizes only. Conversions to metric dimensions should be considered as approximate only.

Use the right preservative treatment

Make sure the wood is treated for its intended exposure. Check plastic end tags or stamps fixed to the timber for 'above ground' or 'ground contact'. Do not use timber marked 'above ground' for ground contact applications.



Photo © Manchester Deck Co.

Table 1. Southern Yellow Pine decking selection guide¹

Decking option	Grade	Nominal size	Actual Size	Lengths	Water-repellent ⁴ Kiln-dried after treatment (KDAT) ⁴
Radius edge ²	Premium	32 x 152mm (5/4" x 6")	25 x 140mm (1" x 5 1/2")	2.4m (8')	Check supplier
	Standard			3.0m (10')	
Dimension	No.1	51 x 102mm (2" x 4")	38 x 89mm (1 1/2" x 3 1/2")	3.65m (12')	
	No.2	51 x 152mm (2" x 6")	38 x 140mm (1 1/2" x 5 1/2")	4.27m (14')	
Patio ³	Patio 1	32 x 152mm (5/4" x 6")	29 x 140mm (1 1/2" x 5 1/2")	4.87m (16')	
	Patio 2				

¹ Consult your timber supplier to source the specific Southern Yellow Pine components you require.

² Radius Edge Decking (R.E.D.) is typically manufactured 6mm (1/4") round on all four edges, but may be offered 6mm (1/4") round on the top two edges only.

³ Patio typically manufactured 10mm (3/8") round on all four edges.

⁴ Built-in water repellent and kiln drying options improve decking performance by minimizing defects caused by the natural expansion and shrinkage that wood experiences over the seasons.



Dimension 51 x 102mm (2" x 4")



Patio decking



Radius edge decking



Dimension 51 x 152mm (2" x 6")

Deck layout

Plan the layout of your deck carefully; planning saves time and money, reducing cutting and waste. For example, no cuts are required if the width of your deck is designed to match a typical decking board length (e.g. 8', 10', 12', 14', 16' – or roughly 2.4m, 3.0m, 3.65m, 4.27m, 4.87m).

Tip:

Where deck boards have visible growth rings in an arc pattern, lay the boards with the top of the arc uppermost, 'bark side up', to help reduce cupping.

BUILDING A DECK

A deck is made up of many components – foundations, posts, beams, bracing, joists, decking, wall plates/ledger boards, edge boards, newel posts, balustrades and stairs – all requiring proper connections.

There are two common methods for supporting a deck. One is to attach the deck directly to a property with a wall plate, sometimes referred to as a ledger board. The proper installation of this wall plate is critical, to avoid bridging damp courses. The alternative method is to construct a non-ledger deck adjacent to the house, supported on all corners by vertical posts. The joists of the deck should be at least 25mm (1") away from the brickwork damp course.

Ground-level decks

Site preparation is important for ground-level decks. Prepare an area approximately 300mm (2 ft) larger than the footprint of the proposed deck. Remove any vegetation, turf or soil to a depth of 600mm (2" or 3") and backfill with ballast, crushed limestone or gravel to prevent water from collecting beneath the deck. Be sure the excavated ground slopes slightly to direct any runoff away from the deck and home. To prevent weeds and unwanted vegetation from growing beneath the deck, spread perforated black garden paper or geotextile membrane over the area. Secure the sheeting in place with proprietary clips or with gravel. At the exposed edges, cover with gravel, pebbles, or other decorative edging such as bark.

Figure 1:
Deck supported
by a ledger attached
to the house

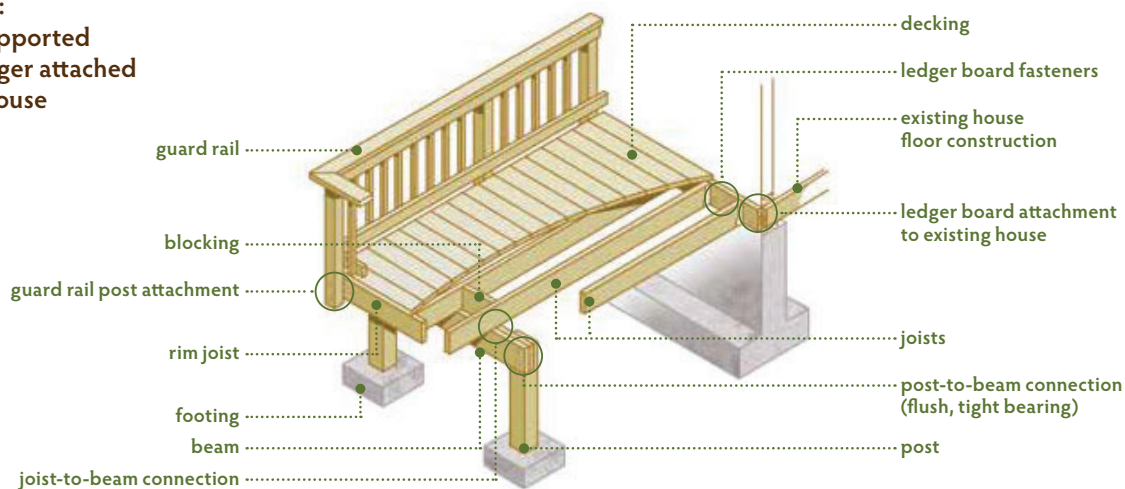
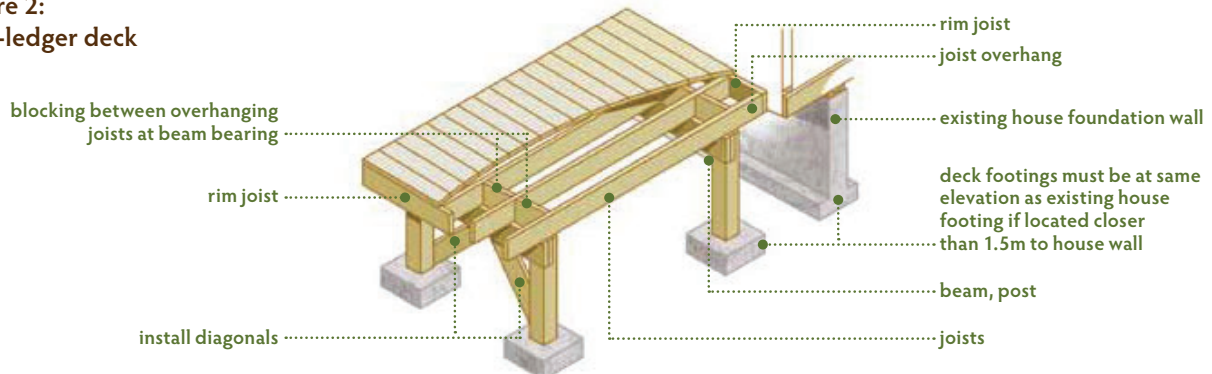


Figure 2:
Non-ledger deck





Posts

Posts for ground floor decks should be a minimum of 100mm x 100mm (4" x 4"). Posts for all other decks should be a minimum of 150mm x 150mm (6" x 6"). Use Southern Yellow Pine No.1 or No.2 grades in solid or laminated timber made from three sections of 50mm x 150mm (2" x 6"). The maximum installation height of posts is 3.65m (14') or the height of the first floor. For decks higher than 600mm (2') above the ground, diagonal bracing is recommended. Posts must be pressure-treated for ground contact use – check the grade stamps or end-tags for confirmation.

Support posts can be notched to accommodate a housing for the beam. However, this may expose untreated wood to decay if it is not re-treated on site. It also reduces the cross-section of the post, which may reduce its strength. To avoid notching, use a post cap metal connector to attach the beam directly to the top of the post. If high lateral loads are anticipated (e.g. wind), notching is not recommended.

Posts, and the foundations that secure them, transfer loads from the deck beam and framing to the ground and should be securely anchored to resist uplift in a strong wind. There are a number of ways posts may be secured. Details of deck posts that conform with UK practice can be found on The Timber Decking and Cladding Association (TDCA) website (www.tda.org.uk).

Ledger boards

When installing ledger boards (timber wall plates) on structural masonry walls, a minimum 15mm (½") gap should be allowed to permit water running down the wall to drain freely. The TDCA publishes details on fixing wall plates to structural walls. On timber frame properties, follow the recommendations for ledger board fixing given in the **Prescriptive Residential Wood Deck Construction Guide** (available at www.awc.org).

Connections

The proper selection and installation of decking fasteners is essential to long-term performance. The most common fixings are nails, screws or hidden fasteners. All hardware used with pressure treated wood in outdoor applications must be corrosion-resistant. Stainless steel or high performance coated fasteners are best. Hot-dipped galvanized fixings and connectors offer the minimum acceptable corrosion resistance. Do not use standard steel, brass, electro-plated or aluminium fixings and connectors. Always fix connectors using nails or screws made from the same metal to prevent galvanic corrosion. Much of the **Prescriptive Residential Wood Deck Construction Guide** is devoted to proper connection details and includes guidance for the following:

- Footing-to-post connections
- Post-to-beam connections
- Joist-to-beam connections
- Decking-to-joist connections
- Rim joist connections
- Bracing attachments
- Ledger board attachments
- Freestanding deck attachment to house
- Guard details and attachments
- Guard post attachments
- Stair details and attachment



Tip:

When attaching fixings near the ends of decking, pre-drill holes to help prevent splitting.

GETTING THE STRUCTURE RIGHT

Joists and beams

The span of a joist is measured from the centre of the post at one end of the joist to the centre of the post at the other end of the joist and does not include the length of any overhang. Use Table 2 to determine the joist span based on timber size and joist spacing. Refer to Table 3 for deck beam spans. Joists may rest on the beam and extend past the beam centre line up to $L_j/4$, or the joists may attach to the side of the beam using joist hangers. However, joists should not be attached to opposite sides of the same beam. Refer to the **Prescriptive Residential Wood Deck Construction Guide** for joist-to-beam connection details, plus beam assembly details where two or more members are used.

Spans

Southern Yellow Pine decking and 50 x 150mm (2" x 6") timber used for decking are both rated to span up to 600mm (24") between joist centres when installed perpendicular to the joist system (N.B. boards must span across at least three joists). However, limiting the joist centres to 400mm (16") reduces board deflection (bounce). When installing decking diagonally, always space joists at 400mm (16") centres.

Do not exceed maximum spans for structural deck components, such as joists and beams. Consult maximum span tables in the **Prescriptive Residential Wood Deck Construction Guide**.

Table 2. Southern Yellow Pine maximum joist spans (L_j)¹

Size	Joist Spacing (o.c.)					
	Allowable Span (L_j)			Allowable Overhang (L_o) ²		
	300mm (12")	400mm (16")	600mm (24")	300mm (12")	400mm (16")	600mm (24")
50 x 200mm (2" x 8")	3.99m (13' 1")	3.61m (11' 10")	2.95m (9' 8")	560mm (1' 10")	600mm (2' 0")	710mm (2' 4")
50 x 250mm (2" x 10")	4.93m (16' 2")	4.27m (14' 0")	3.48m (11' 5")	940mm (3' 1")	1.04m (3' 5")	864mm (2' 10")
50 x 300mm (2" x 12")	5.49m (18' 0") ³	4.88m (16' 6")	4.45m (13' 6")	1.37m (4' 6")	1.27m (4' 2")	1.02m (3' 4")

¹ Assumes 1.915 kN/m² live load, 0.479 kN/m² dead load, L/360 deflection, No. 2 grade and wet service conditions.

² Maximum allowable overhang cannot exceed L/4 or ¼ of actual main span. Assumes cantilever length/180 deflection with 100 kg point load.

³ Joist length prescriptively limited to 5.49 metres for footing design.

Table 3. Southern Yellow Pine deck beam spans (L_B)¹

Size ²	Joist Spans (L_j) less than or equal to:						
	1.83m (6')	2.44m (8')	3.05m (10')	3.66m (12')	4.27m (14')	4.88m (16')	5.49m (18')
(2) 50 x 150mm (2" x 6")	2.03m (6' 8")	1.73m (5' 8")	1.55m (5' 1")	1.40m (4' 7")	1.30m (4' 3")	1.22m (4' 0")	1.14m (3' 9")
(2) 50 x 200mm (2" x 8")	2.59m (8' 6")	2.23m (7' 4")	1.98m (6' 6")	1.80m (5' 11")	1.68m (5' 6")	1.55m (5' 1")	1.45m (4' 9")
(2) 50 x 250mm (2" x 10")	3.07m (10' 1")	2.67m (8' 9")	2.36m (7' 9")	2.16m (7' 1")	1.98m (6' 6")	1.85m (6' 1")	1.75m (5' 9")
(2) 50 x 300mm (2" x 12")	3.63m (11' 11")	3.15m (10' 4")	2.79m (9' 2")	2.54m (8' 4")	2.36m (7' 9")	2.21m (7' 3")	2.06m (6' 9")
(3) 50 x 150mm (2" x 6")	2.41m (7' 11")	2.18m (7' 2")	1.96m (6' 5")	1.78m (5' 10")	1.65m (5' 5")	1.52m (5' 0")	1.45m (4' 9")
(3) 50 x 200mm (2" x 8")	3.23m (10' 7")	2.82m (9' 3")	2.51m (8' 3")	2.29m (7' 6")	2.11m (6' 11")	1.96m (6' 5")	1.85m (6' 1")
(3) 50 x 250mm (2" x 10")	3.89m (12' 9")	3.25m (11' 0")	2.97m (9' 9")	2.67m (8' 9")	2.51m (8' 3")	2.34m (7' 8")	2.21m (7' 3")
(3) 50 x 300mm (2" x 12")	4.57m (15' 0")	3.96m (13' 0")	3.53m (11' 7")	3.20m (10' 6")	2.97m (9' 9")	2.77m (9' 1")	2.62m (8' 7")

¹ Assumes 1.915 kN/m² live load, 0.479 kN/m² dead load, L/360 simple span beam deflection limit, L/180 cantilever deflection limit, No. 2 stress grade and wet service conditions. Deck beam spans (L_B) can extend past the post centre line up to $L_B/4$.

² Beam depth must be equal to, or greater than, the joist depth if joist hangers are used.



Photo © Manchester Deck Co.

Parapets and balustrade rails

Under UK building regulations, any deck platform more than 600mm (24") above ground level must have a safety parapet/guard rail at least 1100mm (43") in height. Newel posts must be a minimum of 100 x 100mm (4" x 4"). Guard rails fitted to stairs must include a graspable handrail on at least one side.

Parapets must include a balustrade infill that prevents the passage of a 100mm (4") sphere. The TDCA (www.tda.org.uk) publishes a guide to safety parapets where compliance with UK building regulations is required. If a deck is under 600mm high, balustrades are considered decorative and need only be 900mm high.

All safety parapets (newel posts, horizontal rails, balusters) should be installed as an independent system. Do not incorporate ground support posts as part of the guard rail system. Guard rail posts should be properly connected to the rim joist using bolts.

Spacing boards

The width of pressure-treated Southern Yellow Pine decking may vary due to moisture contact, so spacing between boards should be adjusted at installation to compensate for shrinkage as the wood dries.

Most Southern Yellow Pine deck boards have either been air or kiln-dried after treatment to a moisture content of 18%, plus or minus 2%. This is the ideal condition for laying at any time of year in the UK, minimizing potential defects caused by shrinkage. A gap should always be left between one deck board and another to help ventilate the under deck area, facilitate drainage and allow for any change of dimensions in the board as its moisture content increases and decreases with each season. A minimum of 5mm ($\frac{1}{4}$ ") to a maximum of 10mm ($\frac{3}{8}$ ") is recommended. Leave a gap of 5mm ($\frac{1}{4}$ ") where a board end abuts a post.

Tip:

Upper ends of railing posts should be covered with caps or cut at an angle to shed water.

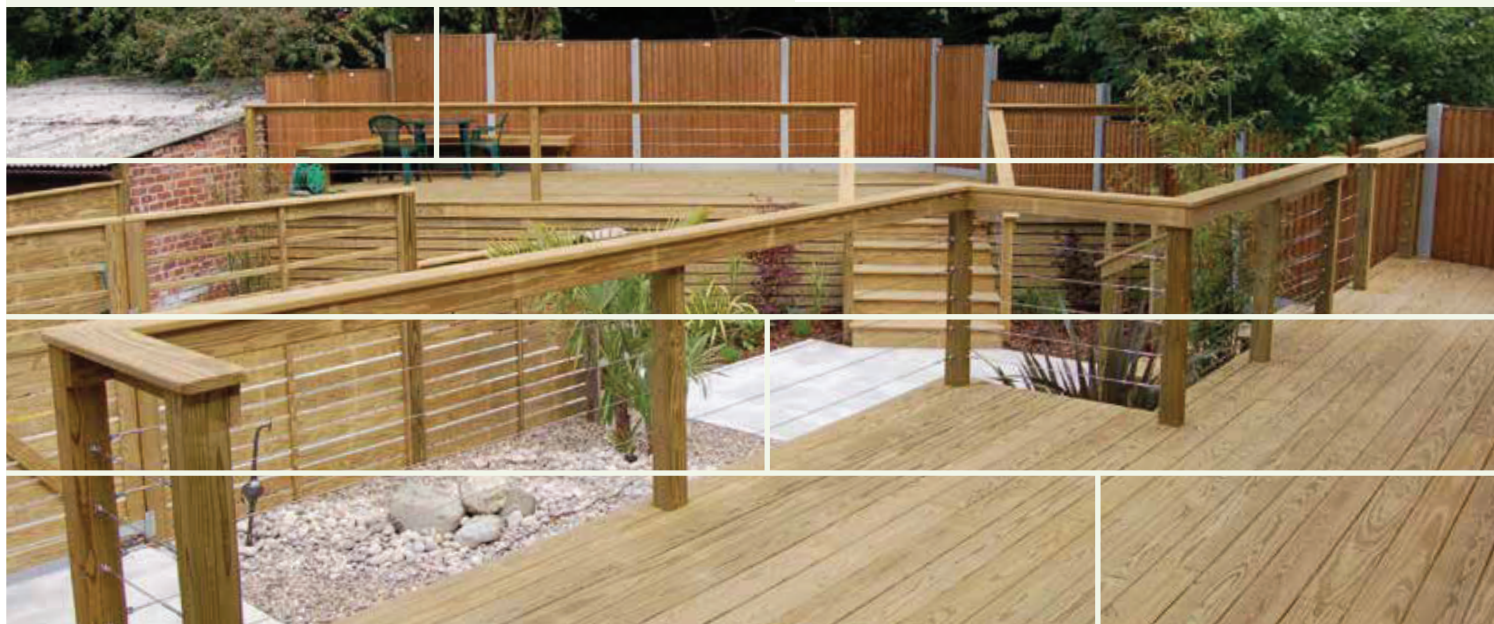


Photo © Manchester Deck Co.

WEATHERING AND SURFACE FINISHES

Horizontal deck surfaces are often directly exposed to sun and moisture, weathering rapidly. As repeated cycles of wetting and drying occur, surface checks (small cracks) can develop and exposed end-grain surfaces may begin to retain moisture.

With changes in its moisture content, wood used outdoors shrinks and swells continuously, subjecting any finishes to excessive stress. Although treated wood is protected against decay and insect attack, the application of a water-repellent sealer to all exposed surfaces is recommended when construction is complete. This sealer will help control surface checking (splitting or cracking) and help to maintain an attractive appearance. Over time, re-application of a sealer is recommended, perhaps every year or two.

Over several months, pressure-treated Southern Yellow Pine will weather naturally to an attractive silver-grey. Should you decide to paint or stain the treated material, you will find that it will accept a finish as readily as untreated Southern Yellow Pine. Most importantly, treated Southern Yellow Pine should be dry before any type of finish is applied.

Stain and paint manufacturers typically recommend a waiting period of between a week and two months from construction of a treated wood deck and applying a paint or stain. If the project was built with Southern Yellow Pine that was kiln-dried after treatment, the finish can be applied right away. When using paint, most manufacturers recommend two coats of an acrylic paint for best results on treated Southern Yellow Pine. Unless specifically manufactured for decking decoration, solid-colour stains should never be used on deck boards or stair treads as these will not withstand the wear of foot traffic.

For best results, always follow the manufacturer's application instructions.



Photo © Manchester Deck Co.

Maintenance

On weathered decks, the original colour of the wood can be restored (and surface mildew and mould removed) using a proprietary deck cleaner, brightener or restorer. If a pressure washer is used to clean a deck surface, care should be taken not to remove any of the wood itself.



Photo © Manchester Deck Co.

Tip:

The splash test

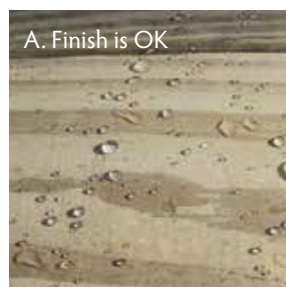
Regardless of a deck's age, when should you apply (or reapply) a finish? Here's the simple test:

First, be sure the wood surface is thoroughly dry. Splash water and observe its dispersion.

A. Water droplets form on contact when:

1. for newly constructed decks, the timber is not yet sufficiently dry to accept a finish, OR
2. for existing decks, the finish is performing satisfactorily.

B. If droplets do not form and water is absorbed into the wood, it's time to apply or reapply a sealer or stain.



A. Finish is OK



B. Time to reapply

THE GREEN CHOICE

Wood products are the most environmentally responsible building material available. Naturally renewable, wood acts as a carbon store and comes from forests that act as carbon sinks. In the US, forests are

widely recognized as stable and well-managed. Today, they cover about the same area as a century ago, and the growing stock has actually increased by 11% from 74,913 million m³ in 1990 to 82,941 million m³ in 2010.⁹

Wood products are the only major building products with a third-party certification system in place to verify their origination from sustainably managed resources.



Sustainable resources

Wood products are produced from trees, a naturally renewable resource. More wood is grown each year in the U.S. than is harvested.



Responsible manufacturing

Waste is virtually eliminated when trees are used to make wood products. Bark, trims and sawdust are used as an energy source to help power wood production facilities. It takes far less energy and fossil fuels to produce wood products than to manufacture concrete and steel.



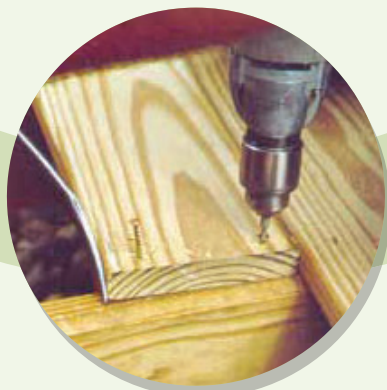
Quality construction

As a building material, wood offers a unique combination of benefits, including strength, affordability, ease-of-use and environmental superiority.



Recycle, renew

At the end of their initial service life, wood products are easily recycled for other uses. Wood contributes fewer greenhouse gas emissions than recycled steel and concrete.



Renovation, upgrade

The flexibility of wood makes renovating a home easy and affordable. Wood is builder-friendly, as well as environmentally friendly. Wood also enhances the aesthetic value of a home when used as flooring, cabinetry, furniture and moulding.



Long service life

The durability of wood products contributes to the long life of a home. Wood products also store carbon, reducing the amount of carbon in the atmosphere.

⁹ Global Forest Resources Assessment, FAO, 2010



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Contact us

This brochure is published by American Softwoods, which exists to promote the quality and benefits of pressure-treated Southern Yellow Pine to markets worldwide. American Softwoods is a member of The Timber Decking and Cladding Association (TDCA), an organization established to promote quality decking materials and best practice in the UK.

A wide range of UK-specific information, ranging from compliance with Local Authority planning and building control requirements to the TDCA's Code of Practice, is available from www.tda.org.uk. A free PDF download of the American Wood Council's **Prescriptive Residential Wood Deck Construction Guide** is available at www.awc.org.

Southern Forest Products Association's global representatives are ready to assist with product or technical information.

Find regional contacts at www.SouthernPineGlobal.com

Certified Southern Yellow Pine is widely available.
Visit www.SouthernPineGlobal.com/product-locator for suppliers.

The conditions under which timber is used in construction may vary widely, as does the quality of workmanship. Neither American Softwoods nor the organizations behind it have knowledge of the quality of workmanship or construction methods used on any construction project and, accordingly, do not warrant the design or performance of the timber in completed structures.

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