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Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.



Pella® 150 Series Double-Hung Window

Size and Performance Data

	Replacement Frame		New Construction Frame	
	Standard	High Performance	Standard	High Performance
Sizes				
Standard Sizes	●	●	●	●
Special Sizes Available Built on 1/8" Increments	●	●	●	●
Frames				
Replacement Frame for 3-1/4" Frame Depth	●	●	—	—
Nail Fin for 2-1/8" Wall Depth	—	—	●	●
Interior Primed Wood Jamb Extensions (2-1/8" wall depth only)	—	—	●	●
Performance₁				
Meets or Exceeds AAMA/WDMA Ratings	H-R20 – R35 AAMA Certified	H-R50 AAMA Certified	H-R20 – R35 AAMA Certified	H-R50 AAMA Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure.)	0.24	0.24	0.24	0.24
Design Pressure	20 – 35 psf	50 psf	20 – 35 psf	50 psf
Water Penetration Resistance	3.0 – 5.25 psf	7.5 psf	3.0 – 5.25 psf	7.5 psf
Forced Entry Resistance (Minimum Security Grade)	10	10	10	10
Maximum Operating Force (lbs) (Initiate Motion/Maintain Motion)	21	21	21	21

Sound Transmission Class and Outdoor-Indoor Transmission Class

Series	Frame Size Tested ₂	Glazing System			STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness		
3-1/4" Frame Depth Replacement Double-Hung - Dual Pane Insulating Glass	36" x 60"	3/4"	3 mm	3 mm	26	22
	36" x 60"	3/4"	2.5 mm	2.5 mm	25	22

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.

(—) = Not Available

(1) Published performance data is for single unit only. 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.



East Region Only



Pella® 150 Series Double-Hung Window

Features and Options

	Replacement Frame	New Construction Frame
Frame		
Perimeter Foam	S	—
Glazing (3/4" Insulating Glass)		
Glazing Type		
Dual-pane insulating glass	S	S
Insulated Glass Options / Low-E Types		
Advanced Low-E	O	O
NaturalSun Low-E	O	O
NaturalSun+ Low-E	O	O
SunDefense™ Low-E	O	O
SunDefense+ Low-E	O	O
Clear (no Low-E coating)	S	S
Additional Glass Options		
Annealed glass	S	S
Tempered glass	O	O
Obscure glass ¹	O	O
Gas Fill / High Altitude		
Argon	O	O
Interior / Exterior Color		
White	S	S
Almond	O	O
Fossil	O	O
Grilles-Between-the-Glass		
Grille Types		
3/4" Contour	O	O
Grille Patterns		
Traditional	O	O
Prairie	O	O
Top Row	O	O

S = Standard; O = Optional

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



East Region Only



Pella® 150 Series Double-Hung Window

Glazing Performance - Total Unit

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown			
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.			
										Zone			
Vent — 3-1/4" Frame Depth (Standard Performance ≤36" Wide and ≤62" High)										N	NC	SC	S
3/4"	Clear IG	PEL-A-303-00130-00001	2.5	2.5	air	0.47	0.60	0.62	43				
	with Grilles-between-the-glass	PEL-A-303-00130-00002				0.47	0.54	0.55	43				
3/4"	Advanced Low-E IG	PEL-A-303-00188-00001	2.5	2.5	air	0.33	0.28	0.53	53				
	with Grilles-between-the-glass	PEL-A-303-00188-00002				0.33	0.26	0.47	53				
3/4"	Advanced Low-E IG	PEL-A-303-00191-00001	2.5	2.5	argon	0.30	0.28	0.53	57				
	with Grilles-between-the-glass	PEL-A-303-00191-00002				0.30	0.25	0.47	57				
3/4"	NaturalSun Low-E IG	PEL-A-303-00187-00001	2.5	2.5	air	0.34	0.50	0.60	53				
	with Grilles-between-the-glass	PEL-A-303-00187-00002				0.34	0.45	0.53	53				
3/4"	NaturalSun Low-E IG	PEL-A-303-00138-00001	2.5	2.5	argon	0.30	0.49	0.60	56				
	with Grilles-between-the-glass	PEL-A-303-00138-00002				0.30	0.44	0.53	56				
3/4"	NaturalSun+ Low-E IG	PEL-A-303-00193-00001	2.5	2.5	argon	0.26	0.48	0.59	45	N			
	with grilles-between-the-glass	PEL-A-303-00193-00002				0.26	0.43	0.52	45	N			
3/4"	SunDefense™ Low-E IG	PEL-A-303-00189-00001	2.5	2.5	air	0.33	0.21	0.49	53				
	with Grilles-between-the-glass	PEL-A-303-00189-00002				0.33	0.19	0.44	53				
3/4"	SunDefense™ Low-E IG	PEL-A-303-00192-00001	2.5	2.5	argon	0.29	0.21	0.49	57				S
	with Grilles-between-the-glass	PEL-A-303-00192-00002				0.29	0.19	0.44	57				S
3/4"	SunDefense+ Low-E IG	PEL-A-303-00194-00001	2.5	2.5	argon	0.25	0.21	0.48	46		NC	SC	S
	with grilles-between-the-glass	PEL-A-303-00194-00002				0.25	0.19	0.43	46		NC	SC	S
Vent — 3-1/4" Frame Depth (Standard Performance ≤36" Wide and ≤62" High)													
3/4"	Clear IG	PEL-A-302-00177-00001	2.5	2.5	air	0.47	0.60	0.62	42				
	with Grilles-between-the-glass	PEL-A-302-00177-00002				0.47	0.53	0.55	42				
3/4"	Advanced Low-E IG	PEL-A-302-00235-00001	2.5	2.5	air	0.33	0.28	0.53	53				
	with Grilles-between-the-glass	PEL-A-302-00235-00002				0.33	0.26	0.47	53				
3/4"	Advanced Low-E IG	PEL-A-302-00238-00001	2.5	2.5	argon	0.30	0.28	0.53	55				
	with Grilles-between-the-glass	PEL-A-302-00238-00002				0.30	0.25	0.47	55				
3/4"	NaturalSun Low-E IG	PEL-A-302-00234-00001	2.5	2.5	air	0.34	0.50	0.60	53				
	with Grilles-between-the-glass	PEL-A-302-00234-00002				0.34	0.44	0.53	53				
3/4"	NaturalSun Low-E IG	PEL-A-302-00185-00001	2.5	2.5	argon	0.30	0.49	0.60	55				
	with Grilles-between-the-glass	PEL-A-302-00185-00002				0.30	0.44	0.53	55				
3/4"	NaturalSun+ Low-E IG	PEL-A-302-00240-00001	2.5	2.5	argon	0.26	0.48	0.59	45	N			
	with grilles-between-the-glass	PEL-A-302-00240-00002				0.26	0.43	0.52	45	N			
3/4"	SunDefense™ Low-E IG	PEL-A-302-00236-00001	2.5	2.5	air	0.33	0.21	0.49	54				
	with Grilles-between-the-glass	PEL-A-302-00236-00002				0.33	0.19	0.44	54				
3/4"	SunDefense™ Low-E IG	PEL-A-302-00239-00001	2.5	2.5	argon	0.29	0.21	0.49	57				S
	with Grilles-between-the-glass	PEL-A-302-00239-00002				0.29	0.19	0.44	57				S
3/4"	SunDefense+ Low-E IG	PEL-A-302-00241-00001	2.5	2.5	argon	0.25	0.20	0.48	46		NC	SC	S
	with grilles-between-the-glass	PEL-A-302-00241-00002				0.25	0.18	0.43	46		NC	SC	S

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

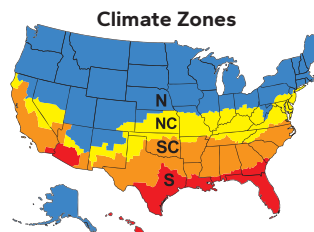
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (version 7) criteria.

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

For more information, see the ENERGY STAR guidelines.

Performance values on this page reflect units with standard performance. For performance values on units with a performance upgrade option, please contact Pella Corporation.

Size may affect the performance values.



East Region Only



Pella® 150 Series Double-Hung Window

Glazing Performance - Total Unit

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown			
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.			
										Zone			
Vent — 3-1/4" Frame Depth (Standard Performance >36" Wide or >62" High, or High Performance)										N	NC	SC	S
3/4"	Clear IG	PEL-A-303-00130-00001	2.5	2.5	air	0.47	0.60	0.62	43				
	with Grilles-between-the-glass	PEL-A-303-00130-00002				0.47	0.54	0.55	43				
3/4"	Advanced Low-E IG	PEL-A-303-00132-00001	2.5	2.5	air	0.33	0.29	0.53	53				
	with Grilles-between-the-glass	PEL-A-303-00132-00002				0.33	0.26	0.47	53				
3/4"	Advanced Low-E IG	PEL-A-303-00135-00001	2.5	2.5	argon	0.30	0.28	0.53	56				
	with Grilles-between-the-glass	PEL-A-303-00135-00002				0.30	0.26	0.47	56				
3/4"	NaturalSun Low-E IG	PEL-A-303-00131-00001	2.5	2.5	air	0.34	0.50	0.60	53				
	with Grilles-between-the-glass	PEL-A-303-00131-00002				0.34	0.44	0.53	53				
3/4"	NaturalSun Low-E IG	PEL-A-303-00134-00001	2.5	2.5	argon	0.31	0.49	0.60	56				
	with Grilles-between-the-glass	PEL-A-303-00134-00002				0.31	0.44	0.53	56				
3/4"	NaturalSun+ Low-E IG	PEL-A-303-00139-00001	2.5	2.5	argon	0.27	0.48	0.59	44				
	with grilles-between-the-glass	PEL-A-303-00139-00002				0.27	0.43	0.52	44				
3/4"	SunDefense™ Low-E IG	PEL-A-303-00133-00001	2.5	2.5	air	0.33	0.21	0.49	54				
	with Grilles-between-the-glass	PEL-A-303-00133-00002				0.33	0.19	0.44	54				
3/4"	SunDefense™ Low-E IG	PEL-A-303-00136-00001	2.5	2.5	argon	0.30	0.21	0.49	57				S
	with Grilles-between-the-glass	PEL-A-303-00136-00002				0.30	0.19	0.44	57				S
3/4"	SunDefense+ Low-E IG	PEL-A-303-00140-00001	2.5	2.5	argon	0.26	0.21	0.48	46			SC	S
	with grilles-between-the-glass	PEL-A-303-00140-00002				0.26	0.19	0.43	46			SC	S
Vent — 3-1/4" Frame Depth (Standard Performance >36" Wide or >62" High, or High Performance)										N	NC	SC	S
3/4"	Clear IG	PEL-A-302-00177-00001	2.5	2.5	air	0.47	0.60	0.62	42				
	with Grilles-between-the-glass	PEL-A-302-00177-00002				0.47	0.53	0.55	42				
3/4"	Advanced Low-E IG	PEL-A-302-00179-00001	2.5	2.5	air	0.33	0.28	0.53	52				
	with Grilles-between-the-glass	PEL-A-302-00179-00002				0.33	0.26	0.47	52				
3/4"	Advanced Low-E IG	PEL-A-302-00182-00001	2.5	2.5	argon	0.30	0.28	0.53	55				
	with Grilles-between-the-glass	PEL-A-302-00182-00002				0.30	0.25	0.47	55				
3/4"	NaturalSun Low-E IG	PEL-A-302-00178-00001	2.5	2.5	air	0.34	0.49	0.60	52				
	with Grilles-between-the-glass	PEL-A-302-00178-00002				0.34	0.44	0.53	52				
3/4"	NaturalSun Low-E IG	PEL-A-302-00181-00001	2.5	2.5	argon	0.31	0.49	0.60	55				
	with Grilles-between-the-glass	PEL-A-302-00181-00002				0.31	0.44	0.53	55				
3/4"	NaturalSun+ Low-E IG	PEL-A-302-00186-00001	2.5	2.5	argon	0.27	0.48	0.59	44				
	with grilles-between-the-glass	PEL-A-302-00186-00002				0.27	0.43	0.52	44				
3/4"	SunDefense™ Low-E IG	PEL-A-302-00180-00001	2.5	2.5	air	0.33	0.21	0.49	53				
	with Grilles-between-the-glass	PEL-A-302-00180-00002				0.33	0.19	0.44	53				
3/4"	SunDefense™ Low-E IG	PEL-A-302-00183-00001	2.5	2.5	argon	0.30	0.21	0.49	56				S
	with Grilles-between-the-glass	PEL-A-302-00183-00002				0.30	0.19	0.44	56				S
3/4"	SunDefense+ Low-E IG	PEL-A-302-00187-00001	2.5	2.5	argon	0.26	0.20	0.48	46			SC	S
	with grilles-between-the-glass	PEL-A-302-00187-00002				0.26	0.18	0.43	46			SC	S

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

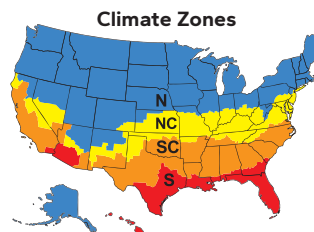
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East Region Only



Pella® 150 Series Double-Hung Window

Glazing Performance - Total Unit

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown			
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.			
										Zone			
Vent — 3-1/4" Frame Depth and Foam (Standard Performance ≤36" Wide and ≤62" High)										N	NC	SC	S
3/4"	Advanced Low-E IG	PEL-A-303-00227-00001	2.5	2.5	air	0.32	0.28	0.53	53				
	with Grilles-between-the-glass	PEL-A-303-00227-00002				0.32	0.26	0.47	53				
3/4"	Advanced Low-E IG	PEL-A-303-00230-00001	2.5	2.5	argon	0.28	0.28	0.53	56				
	with Grilles-between-the-glass	PEL-A-303-00230-00002				0.28	0.25	0.47	56				
3/4"	NaturalSun Low-E IG	PEL-A-303-00226-00001	2.5	2.5	air	0.32	0.50	0.60	52				
	with Grilles-between-the-glass	PEL-A-303-00226-00002				0.32	0.45	0.53	52				
3/4"	NaturalSun Low-E IG	PEL-A-303-00229-00001	2.5	2.5	argon	0.29	0.50	0.60	56				
	with Grilles-between-the-glass	PEL-A-303-00229-00002				0.29	0.45	0.53	56				
3/4"	NaturalSun+ Low-E IG	PEL-A-303-00232-00001	2.5	2.5	argon	0.25	0.48	0.59	44	N			
	with grilles-between-the-glass	PEL-A-303-00232-00002				0.25	0.43	0.52	44	N			
3/4"	SunDefense™ Low-E IG	PEL-A-303-00228-00001	2.5	2.5	air	0.31	0.21	0.49	53				S
	with Grilles-between-the-glass	PEL-A-303-00228-00002				0.31	0.19	0.44	53				S
3/4"	SunDefense™ Low-E IG	PEL-A-303-00231-00001	2.5	2.5	argon	0.28	0.21	0.49	57			SC	S
	with Grilles-between-the-glass	PEL-A-303-00231-00002				0.28	0.19	0.44	57			SC	S
3/4"	SunDefense+ Low-E IG	PEL-A-303-00233-00001	2.5	2.5	argon	0.24	0.21	0.48	46		NC	SC	S
	with grilles-between-the-glass	PEL-A-303-00233-00002				0.24	0.19	0.43	46		NC	SC	S
Vent — 3-1/4" Frame Depth and Foam (Standard Performance ≤36" Wide and ≤62" High)													
3/4"	Advanced Low-E IG	PEL-A-302-00274-00001	2.5	2.5	air	0.32	0.28	0.53	53				
	with Grilles-between-the-glass	PEL-A-302-00274-00002				0.32	0.25	0.47	53				
3/4"	Advanced Low-E IG	PEL-A-302-00238-00001	2.5	2.5	argon	0.28	0.28	0.53	57				
	with Grilles-between-the-glass	PEL-A-302-00238-00002				0.28	0.25	0.47	57				
3/4"	NaturalSun Low-E IG	PEL-A-302-00273-00001	2.5	2.5	air	0.32	0.50	0.60	53				
	with Grilles-between-the-glass	PEL-A-302-00273-00002				0.32	0.44	0.53	53				
3/4"	NaturalSun Low-E IG	PEL-A-302-00185-00001	2.5	2.5	argon	0.29	0.49	0.60	56				
	with Grilles-between-the-glass	PEL-A-302-00185-00002				0.29	0.44	0.53	56				
3/4"	NaturalSun+ Low-E IG	PEL-A-302-00279-00001	2.5	2.5	argon	0.25	0.48	0.59	44	N			
	with grilles-between-the-glass	PEL-A-302-00279-00002				0.25	0.43	0.52	44	N			
3/4"	SunDefense™ Low-E IG	PEL-A-302-00275-00001	2.5	2.5	air	0.31	0.21	0.49	53				S
	with Grilles-between-the-glass	PEL-A-302-00275-00002				0.31	0.19	0.44	53				S
3/4"	SunDefense™ Low-E IG	PEL-A-302-00278-00001	2.5	2.5	argon	0.28	0.21	0.49	57			SC	S
	with Grilles-between-the-glass	PEL-A-302-00278-00002				0.28	0.19	0.44	57			SC	S
3/4"	SunDefense+ Low-E IG	PEL-A-302-00241-00001	2.5	2.5	argon	0.24	0.20	0.48	46		NC	SC	S
	with grilles-between-the-glass	PEL-A-302-00241-00002				0.24	0.18	0.43	46		NC	SC	S

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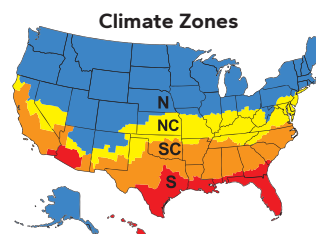
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East Region Only



Pella® 150 Series Double-Hung Window

Glazing Performance - Total Unit

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown			
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.			
										Zone			
Vent — 3-1/4" Frame Depth with Foam (Standard Performance >36" Wide or >62" High, or High Performance)										N	NC	SC	S
3/4"	Advanced Low-E IG	PEL-A-303-00149-00001	2.5	2.5	air	0.32	0.28	0.53	53				
	with Grilles-between-the-glass	PEL-A-303-00149-00002				0.32	0.26	0.47	53				
3/4"	Advanced Low-E IG	PEL-A-303-00152-00001	2.5	2.5	argon	0.29	0.28	0.53	56				
	with Grilles-between-the-glass	PEL-A-303-00152-00002				0.29	0.26	0.47	56				
3/4"	NaturalSun Low-E IG	PEL-A-303-00148-00001	2.5	2.5	air	0.33	0.50	0.60	52				
	with Grilles-between-the-glass	PEL-A-303-00148-00002				0.33	0.44	0.53	52				
3/4"	NaturalSun Low-E IG	PEL-A-303-00151-00001	2.5	2.5	argon	0.30	0.50	0.60	55				
	with Grilles-between-the-glass	PEL-A-303-00151-00002				0.30	0.45	0.53	55				
3/4"	NaturalSun+ Low-E IG	PEL-A-303-00154-00001	2.5	2.5	argon	0.26	0.48	0.59	44	N			
	with grilles-between-the-glass	PEL-A-303-00154-00002				0.26	0.43	0.52	44	N			
3/4"	SunDefense™ Low-E IG	PEL-A-303-00150-00001	2.5	2.5	air	0.32	0.21	0.49	53				S
	with Grilles-between-the-glass	PEL-A-303-00150-00002				0.32	0.19	0.44	53				S
3/4"	SunDefense™ Low-E IG	PEL-A-303-00153-00001	2.5	2.5	argon	0.29	0.21	0.49	56				S
	with Grilles-between-the-glass	PEL-A-303-00153-00002				0.29	0.19	0.44	56				S
3/4"	SunDefense+ Low-E IG	PEL-A-303-00155-00001	2.5	2.5	argon	0.25	0.21	0.48	45		NC	SC	S
	with grilles-between-the-glass	PEL-A-303-00155-00002				0.25	0.19	0.43	45		NC	SC	S
Vent — 3-1/4" Frame Depth with Foam (Standard Performance >36" Wide or >62" High, or High Performance)										N	NC	SC	S
3/4"	Advanced Low-E IG	PEL-A-302-00196-00001	2.5	2.5	air	0.32	0.28	0.53	53				
	with Grilles-between-the-glass	PEL-A-302-00196-00002				0.32	0.25	0.47	53				
3/4"	Advanced Low-E IG	PEL-A-302-00199-00001	2.5	2.5	argon	0.29	0.28	0.53	56				
	with Grilles-between-the-glass	PEL-A-302-00199-00002				0.29	0.25	0.47	56				
3/4"	NaturalSun Low-E IG	PEL-A-302-00195-00001	2.5	2.5	air	0.33	0.50	0.60	52				
	with Grilles-between-the-glass	PEL-A-302-00195-00002				0.33	0.44	0.53	52				
3/4"	NaturalSun Low-E IG	PEL-A-302-00198-00001	2.5	2.5	argon	0.30	0.49	0.60	56				
	with Grilles-between-the-glass	PEL-A-302-00198-00002				0.30	0.44	0.53	56				
3/4"	NaturalSun+ Low-E IG	PEL-A-302-00201-00001	2.5	2.5	argon	0.26	0.48	0.59	44	N			
	with grilles-between-the-glass	PEL-A-302-00201-00002				0.26	0.43	0.52	44	N			
3/4"	SunDefense™ Low-E IG	PEL-A-302-00197-00001	2.5	2.5	air	0.32	0.21	0.49	53				S
	with Grilles-between-the-glass	PEL-A-302-00197-00002				0.32	0.19	0.44	53				S
3/4"	SunDefense™ Low-E IG	PEL-A-302-00200-00001	2.5	2.5	argon	0.29	0.21	0.49	57				S
	with Grilles-between-the-glass	PEL-A-302-00200-00002				0.29	0.19	0.44	57				S
3/4"	SunDefense+ Low-E IG	PEL-A-302-00202-00001	2.5	2.5	argon	0.25	0.20	0.48	46		NC	SC	S
	with grilles-between-the-glass	PEL-A-302-00202-00002				0.25	0.18	0.43	46		NC	SC	S

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

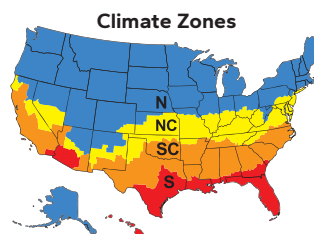
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2023 (version 7) criteria.

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

For more information, see the ENERGY STAR guidelines.

Performance values on this page reflect units with standard performance. For performance values on units with a performance upgrade option, please contact Pella Corporation.

Size may affect the performance values.



East Region Only



Grilles

Grille Profiles

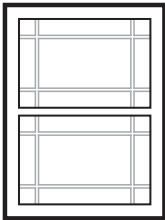
Grilles-Between-the-Glass



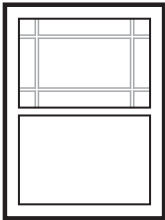
3/4" Contour Grille

Grille Patterns

Prairie Lite Patterns



9-Lite Prairie

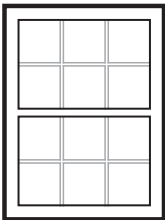


6-Lite Prairie

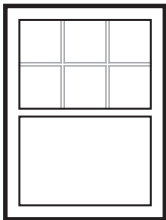
Prairie

- Specify upper or both sash.
- Approximately 4" from edge of sash to center of bar.
- Minimum actual glass is 13".

Other Available Patterns



Traditional



Top Row

Traditional

- Specify upper or both sash.
- Specify number of lites.
- Grilles must be equally divided on visible glass.
- Minimum 6" x 6" center-to-center.

Top Row

- Standard visible glass to separator bar must be $\leq 1/2$ upper actual glass.

For standard grille breakpoints, see size tables.

Maximum frame height for 25 Series is 72".



East Region Only



Pella® 150 Series Double-Hung Window

Standard Traditional Grille Breakpoints

FRAME HEIGHT		FRAME WIDTH			
		1-Wide	2-Wide	3-Wide	4-Wide
		< 17-1/2"	17-1/2" to 27-1/2"	27-5/8" to 44-3/8"	44-1/2" to 48"
1-High	23" to 29-3/8"				
2-High	29-1/2" to 65-1/2"				
3-High	65-5/8" to 71-1/2"				
4-High	71-5/8" to 78"				



East Region Only



Pella® 150 Series Double-Hung Window

Size Tables - 3-1/4" New Construction Frame

1-Wide Vent

	(610) (597)	(710) (699)	(762) (749)	(813) (800)	(914) (902)	(965) (953)	(1 016) (1 003)
Opening	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"
Frame	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	37 1/2"	39 1/2"
(1 829) (1 816)							
	2-0/3-0	2-4/3-0	2-6/3-0	2-8/3-0	3-0/3-0	3-2/3-0	3-4/3-0
(914) (902)							
	2-0/3-2	2-4/3-2	2-6/3-2	2-8/3-2	3-0/3-2	3-2/3-2	3-4/3-2
(965) (953)							
	2-0/3-6	2-4/3-6	2-6/3-6	2-8/3-6	3-0/3-6	3-2/3-6	3-4/3-6
(1 067) (1 054)							
	2-0/3-10	2-4/3-10	2-6/3-10	2-8/3-10	3-0/3-10	3-2/3-10	3-4/3-10
(1 160) (1 156)							
	2-0/4-0	2-4/4-0	2-6/4-0	2-8/4-0	3-0/4-0	3-2/4-0	3-4/4-0
(1 219) (1 207)							
	2-0/4-4	2-4/4-4	2-6/4-4	2-8/4-4	3-0/4-4	3-2/4-4	3-4/4-4
(1 321) (1 308)							
	2-0/4-6	2-4/4-6	2-6/4-6	2-8/4-6	3-0/4-6	3-2/4-6	3-4/4-6
(1 372) (1 359)							
	2-0/5-0	2-4/5-0	2-6/5-0	2-8/5-0	3-0/5-0 E ₁	3-2/5-0 E ₁	3-4/5-0 E
(1 524) (1 511)							
	2-0/5-2	2-4/5-2	2-6/5-2	2-8/5-2	3-0/5-2 E ₁	3-2/5-2 E	3-4/5-2 E
(1 575) (1 562)							
	2-0/5-6	2-4/5-6	2-6/5-6	2-8/5-6 E ₁	3-0/5-6 E	3-2/5-6 E	3-4/5-6 E
(1 676) (1 664)							
	2-0/6-0	2-4/6-0	2-6/6-0 E ₁	2-8/6-0 E ₁	3-0/6-0 E	3-2/6-0 E	3-4/6-0 E

Fixed Units

	(1 219) (1 207)	(1 372) (1 359)	(1 524) (1 511)
Opening	4' 0"	4' 6"	5' 0"
Frame	47 1/2"	53 1/2"	59 1/2"
(914) (902)			
	4-0/3-0	4-6/3-0	5-0/3-0
(965) (953)			
	4-0/3-2	4-6/3-2	5-0/3-2
(1 067) (1 054)			
	4-0/3-6	4-6/3-6	5-0/3-6
(1 160) (1 156)			
	4-0/3-10	4-6/3-10	5-0/3-10
(1 219) (1 207)			
	4-0/4-0	4-6/4-0	5-0/4-0
(1 321) (1 308)			
	4-0/4-4	4-6/4-4	5-0/4-4
(1 372) (1 359)			
	4-0/4-6	4-6/4-6	5-0/4-6
(1 524) (1 511)			
	4-0/5-0	4-6/5-0	5-0/5-0
(1 575) (1 562)			
	4-0/5-2	4-6/5-2	5-0/5-2
(1 676) (1 664)			
	4-0/5-6	4-6/5-6	5-0/5-6
(1 829) (1 816)			
	4-0/6-0	4-6/6-0	5-0/6-0

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.



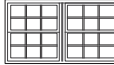
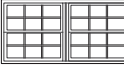
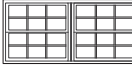
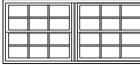
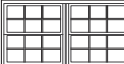
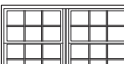
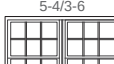
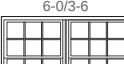
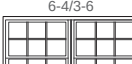
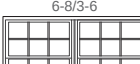
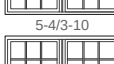
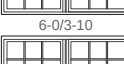
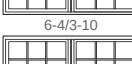
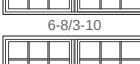
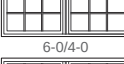
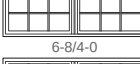
East Region Only



Pella® 150 Series Double-Hung Window

Size Tables - 3-1/4" New Construction Frame - Composite with Integral Mullion

2-Wide Vent Composites with Integral Mullion

		(1 219) (1 207)	(1 422) (1 410)	(1 524) (1 511)	(1 626) (1 613)	(1 829) (1 816)	(1 930) (1 918)	(2 032) (2 019)
Opening		4' 0"	4' 8"	5' 0"	5' 4"	6' 0"	6' 4"	6' 8"
Frame		47 1/2"	55 1/2"	59 1/2"	63 1/2"	71 1/2"	75 1/2"	79 1/2"
(914) (902) (965) (953) (1 067) (1 054) (1 160) (1 156) (1 219) (1 207) (1 321) (1 308) (1 372) (1 359) (1 524) (1 511) (1 575) (1 562) (1 676) (1 664) (1 829) (1 816)	3' 0"							
	3' 2"							
	3' 6"							
	3' 10"							
	4' 0"							
	4' 4"							
	4' 6"							
	5' 0"							
	5' 2"							
	5' 6"							
	6' 0"							

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.



East Region Only



Pella® 150 Series Double-Hung Window

Size Tables - 3-1/4" New Construction Frame - Composite with Integral Mullion

3-Wide Vent Composites with Integral Mullion

		(1 829) (1 816)	(2 134) (2 121)	(2 438) (2 426)	(2 438) (2 426)	(2 743) (2 731)
Opening		6' 0"	7' 0"	7' 6"	8' 0"	9' 0"
Frame		71 1/2"	83 1/2"	89 1/2"	95 1/2"	107 1/2"
(1 829) (1 816) (1 524) (1 511) (1 575) (1 562) (1 676) (1 664) (1 829) (1 816)	3' 0"					
	3' 2"					
	3' 6"					
	3' 10"					
	4' 0"					
	4' 4"					
	4' 6"					
	5' 0"					
	5' 2"					
	5' 6"					
	6' 0"					
	35 1/2"					
	37 1/2"					
	41 1/2"					
	45 1/2"					
	47 1/2"					
	51 1/2"					
	53 1/2"					
	59 1/2"					
	61 1/2"					
	65 1/2"					
	71 1/2"					

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.



East Region Only



Pella® 150 Series Double-Hung Window

Special Sizes and Dimensions

Replacement frame double-hung windows are made to order in 1/8" increments to fit the opening. Listed below are the minimum and maximum size ranges.

Single Vent	2-Wide Vent Composite	3-Wide Vent Composite
MINIMUM 14-1/2" W x 23-1/2" H (368 x 597)	MINIMUM 29-1/2" W x 23-1/2" H (749 x 597)	MINIMUM 44-1/2" W x 23-1/2" H (1130 x 597)
MAXIMUM 48 ft² (4.46 m²) 48" W x 78" H (1219 x 1981)	MAXIMUM 48 ft² (4.46 m²) W < 96-1/2" (2451) H ≤ 78" (1981)	MAXIMUM 48 ft² (4.46 m²) W < 108" (2743) H ≤ 78" (1981)

General Notes:

- To convert areas to square meters (m²), multiply square feet by 0.0929.
- Rough Opening = Frame Dimension + 1/4".
- Keep frame dimensions to the nearest 1/8" increment.
- If glass width/height ratio is > 5:1, then unit must be tempered.
- 2-Wide High Performance limited to 71-1/2" x 71-1/2".
- Optional Slope Sill Adaptor—14° angle.

Full Screen:

- Full Screen—If unit frame dimensions are >39" wide or > 53-1/2" high, spreader bar is included.

Miscellaneous Formulas

	Single Vent	2-Wide Vent	3-Wide Vent
Visible Glass	VGW = FW - 6-1/4"	VGW = (FW ÷ 2) - 6-3/4"	VGW = (FW ÷ 3) - 7-1/4"
	VGH = (FH ÷ 2) - 4"	VGH = (FH ÷ 2) - 4"	VGH = (FH ÷ 2) - 4"
Actual Glass	AGW = FW - 5-1/4"	AGW = (FW ÷ 2) - 5-1/2"	AGW = (FW ÷ 3) - 5-9/16"
	AGH = (FH ÷ 2) - 3"	AGH = (FH ÷ 2) - 3"	AGH = (FH ÷ 2) - 3"
Clear Opening	Equally Divided = (FW - 4-5/8) x (FH ÷ 2 - 5-11/16) ÷ 144	Equally Divided = (FW ÷ 2 - 4-7/8) x (FH ÷ 2 - 5-11/16) ÷ 144	Equally Divided = (FW ÷ 3 - 4-15/16) x (FH ÷ 2 - 5-11/16) ÷ 144

KEY:

AGW = Actual Glass Width
 AGH = Actual Glass Height
 FW = Frame Width
 FH = Frame Height
 VGW = Visible Glass Width
 VGH = Visible Glass Height



East Region Only

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.



Pella® 150 Series Double-Hung Window

Design Data

1-Wide Vent - 3-1/4" New Construction Frame

Unit	Egress	Frame (Inches)		Clear Opening (Vent Units Only)			Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height	Width	Height	Ft²		Annealed	Tempered	Standard	Upgrade ²
2-0/3-0		23-1/2	35-1/2	18-7/8	12-1/16	1.5	3.3	2.5	3	R35	R50
2-0/3-2		23-1/2	37-1/2	18-7/8	13-1/16	1.7	3.5	2.5	3	R35	R50
2-0/3-6		23-1/2	41-1/2	18-7/8	15-1/16	1.9	4.0	2.5	3	R35	R50
2-0/3-10		23-1/2	45-1/2	18-7/8	17-1/16	2.2	4.5	2.5	3	R35	R50
2-0/4-0		23-1/2	47-1/2	18-7/8	18-1/16	2.3	4.7	2.5	3	R35	R50
2-0/4-4		23-1/2	51-1/2	18-7/8	20-1/16	2.6	5.2	2.5	3	R35	R50
2-0/4-6		23-1/2	53-1/2	18-7/8	21-1/16	2.7	5.5	2.5	3	R35	R50
2-0/5-0		23-1/2	59-1/2	18-7/8	24-1/16	3.1	6.2	2.5	3	R35	R50
2-0/5-2		23-1/2	61-1/2	18-7/8	25-1/16	3.2	6.4	2.5	3	R35	R50
2-0/5-6		23-1/2	65-1/2	18-7/8	27-1/16	3.5	6.9	2.5	3	R35	R50
2-0/6-0		23-1/2	71-1/2	18-7/8	30-1/16	3.9	7.6	2.5	3	R35	R50
2-4/3-0		27-1/2	35-1/2	22-7/8	12-1/16	1.9	4.1	2.5	3	R35	R50
2-4/3-2		27-1/2	37-1/2	22-7/8	13-1/16	2.0	4.4	2.5	3	R35	R50
2-4/3-6		27-1/2	41-1/2	22-7/8	15-1/16	2.3	4.9	2.5	3	R35	R50
2-4/3-10		27-1/2	45-1/2	22-7/8	17-1/16	2.7	5.5	2.5	3	R35	R50
2-4/4-0		27-1/2	47-1/2	22-7/8	18-1/16	2.8	5.8	2.5	3	R35	R50
2-4/4-4		27-1/2	51-1/2	22-7/8	20-1/16	3.1	6.4	2.5	3	R35	R50
2-4/4-6		27-1/2	53-1/2	22-7/8	21-1/16	3.3	6.7	2.5	3	R35	R50
2-4/5-0		27-1/2	59-1/2	22-7/8	24-1/16	3.8	7.6	2.5	3	R35	R50
2-4/5-2		27-1/2	61-1/2	22-7/8	25-1/16	3.9	7.9	2.5	3	R35	R50
2-4/5-6		27-1/2	65-1/2	22-7/8	27-1/16	4.3	8.5	2.5	3	R35	R50
2-4/6-0		27-1/2	71-1/2	22-7/8	30-1/16	4.7	9.4	2.5	3	R35	R50
2-6/3-0		29-1/2	35-1/2	24-7/8	12-1/16	2.0	4.4	2.5	3	R35	R50
2-6/3-2		29-1/2	37-1/2	24-7/8	13-1/16	2.2	4.8	2.5	3	R35	R50
2-6/3-6		29-1/2	41-1/2	24-7/8	15-1/16	2.6	5.4	2.5	3	R35	R50
2-6/3-10		29-1/2	45-1/2	24-7/8	17-1/16	2.9	6.1	2.5	3	R35	R50
2-6/4-0		29-1/2	47-1/2	24-7/8	18-1/16	3.1	6.4	2.5	3	R35	R50
2-6/4-4		29-1/2	51-1/2	24-7/8	20-1/16	3.4	7.0	2.5	3	R35	R50
2-6/4-6		29-1/2	53-1/2	24-7/8	21-1/16	3.6	7.3	2.5	3	R35	R50
2-6/5-0		29-1/2	59-1/2	24-7/8	24-1/16	4.1	8.3	2.5	3	R35	R50
2-6/5-2		29-1/2	61-1/2	24-7/8	25-1/16	4.3	8.6	2.5	3	R35	R50
2-6/5-6		29-1/2	65-1/2	24-7/8	27-1/16	4.6	9.3	2.5	3	R35	R50
2-6/6-0	E1	29-1/2	71-1/2	24-7/8	30-1/16	5.1	10.3	2.5	3	R35	R50

1 of 2

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.

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.

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

(2) Indicates performance with additional steel reinforcement in sash cavity.

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



East Region Only



Pella® 150 Series Double-Hung Window

Design Data

1-Wide Vent - 3-1/4" New Construction Frame

Unit	Egress	Frame (Inches)		Clear Opening (Vent Units Only)			Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height	Width	Height	Ft²		Annealed	Tempered	Standard	Upgrade ²
2-8/3-0		31-1/2	35-1/2	26-7/8	12-1/16	2.2	4.8	2.5	3	R35	R50
2-8/3-2		31-1/2	37-1/2	26-7/8	13-1/16	2.4	5.2	2.5	3	R35	R50
2-8/3-6		31-1/2	41-1/2	26-7/8	15-1/16	2.8	5.9	2.5	3	R35	R50
2-8/3-10		31-1/2	45-1/2	26-7/8	17-1/16	3.1	6.6	2.5	3	R35	R50
2-8/4-0		31-1/2	47-1/2	26-7/8	18-1/16	3.3	6.9	2.5	3	R35	R50
2-8/4-4		31-1/2	51-1/2	26-7/8	20-1/16	3.7	7.6	2.5	3	R35	R50
2-8/4-6		31-1/2	53-1/2	26-7/8	21-1/16	3.9	8.0	2.5	3	R35	R50
2-8/5-0		31-1/2	59-1/2	26-7/8	24-1/16	4.5	9.0	2.5	3	R35	R50
2-8/5-2		31-1/2	61-1/2	26-7/8	25-1/16	4.6	9.4	2.5	3	R35	R50
2-8/5-6	E1	31-1/2	65-1/2	26-7/8	27-1/16	5.0	10.1	2.5	3	R35	R50
2-8/6-0	E1	31-1/2	71-1/2	26-7/8	30-1/16	5.6	11.1	2.5	3	R35	R50
3-0/3-0		35-1/2	35-1/2	30-7/8	12-1/16	2.5	5.6	2.5	3	R35	R50
3-0/3-2		35-1/2	37-1/2	30-7/8	13-1/16	2.8	6.0	2.5	3	R35	R50
3-0/3-6		35-1/2	41-1/2	30-7/8	15-1/16	3.2	6.8	2.5	3	R35	R50
3-0/3-10		35-1/2	45-1/2	30-7/8	17-1/16	3.6	7.6	2.5	3	R35	R50
3-0/4-0		35-1/2	47-1/2	30-7/8	18-1/16	3.8	8.0	2.5	3	R35	R50
3-0/4-4		35-1/2	51-1/2	30-7/8	20-1/16	4.3	8.8	2.5	3	R35	R50
3-0/4-6		35-1/2	53-1/2	30-7/8	21-1/16	4.5	9.2	2.5	3	R35	R50
3-0/5-0	E1	35-1/2	59-1/2	30-7/8	24-1/16	5.1	10.5	2.5	3	R35	R50
3-0/5-2	E1	35-1/2	61-1/2	30-7/8	25-1/16	5.3	10.9	2.5	3	R35	R50
3-0/5-6	E	35-1/2	65-1/2	30-7/8	27-1/16	5.8	11.7	2.5	3	R35	R50
3-0/6-0	E	35-1/2	71-1/2	30-7/8	30-1/16	6.4	12.9	3	3	R35	R50
3-2/3-0		37-1/2	35-1/2	32-7/8	12-1/16	2.7	6.0	2.5	3	R25	R50
3-2/3-2		37-1/2	37-1/2	32-7/8	13-1/16	2.9	6.4	2.5	3	R25	R50
3-2/3-6		37-1/2	41-1/2	32-7/8	15-1/16	3.4	7.3	2.5	3	R25	R50
3-2/3-10		37-1/2	45-1/2	32-7/8	17-1/16	3.9	8.1	2.5	3	R25	R50
3-2/4-0		37-1/2	47-1/2	32-7/8	18-1/16	4.1	8.6	2.5	3	R25	R50
3-2/4-4		37-1/2	51-1/2	32-7/8	20-1/16	4.5	9.4	2.5	3	R25	R50
3-2/4-6		37-1/2	53-1/2	32-7/8	21-1/16	4.8	9.9	2.5	3	R25	R50
3-2/5-0	E1	37-1/2	59-1/2	32-7/8	24-1/16	5.5	11.2	2.5	3	R25	R50
3-2/5-2	E	37-1/2	61-1/2	32-7/8	25-1/16	5.7	11.6	2.5	3	R25	R50
3-2/5-6	E	37-1/2	65-1/2	32-7/8	27-1/16	6.1	12.5	3	3	R25	R50
3-2/6-0	E	37-1/2	71-1/2	32-7/8	30-1/16	6.8	13.8	3	3	R25	R50
3-4/3-0		39-1/2	35-1/2	34-7/8	12-1/16	2.9	6.3	2.5	3	R25	R50
3-4/3-2		39-1/2	37-1/2	34-7/8	13-1/16	3.1	6.8	2.5	3	R25	R50
3-4/3-6		39-1/2	41-1/2	34-7/8	15-1/16	3.6	7.7	2.5	3	R25	R50
3-4/3-10		39-1/2	45-1/2	34-7/8	17-1/16	4.1	8.7	2.5	3	R25	R50
3-4/4-0		39-1/2	47-1/2	34-7/8	18-1/16	4.3	9.1	2.5	3	R25	R50
3-4/4-4		39-1/2	51-1/2	34-7/8	20-1/16	4.8	10.0	2.5	3	R25	R50
3-4/4-6		39-1/2	53-1/2	34-7/8	21-1/16	5.1	10.5	2.5	3	R25	R50
3-4/5-0	E	39-1/2	59-1/2	34-7/8	24-1/16	5.8	11.9	2.5	3	R25	R50
3-4/5-2	E	39-1/2	61-1/2	34-7/8	25-1/16	6.0	12.4	3	3	R25	R50
3-4/5-6	E	39-1/2	65-1/2	34-7/8	27-1/16	6.5	13.3	3	3	R25	R50
3-4/6-0	E	39-1/2	71-1/2	34-7/8	30-1/16	7.2	14.7	3	3	R25	R50

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.

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.

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

(2) Indicates performance with additional steel reinforcement in sash cavity.

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





Pella® 150 Series Double-Hung Window

Design Data

1-Wide Fixed - 3-1/4" New Construction Frame

Unit	Frame (Inches)		Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ⁽¹⁾
	Width	Height		Annealed	Tempered	
4-0/2-0	47-1/2	23-1/2	5.4	2.5	3	R50
4-0/3-0	47-1/2	35-1/2	8.9	2.5	3	R50
4-0/3-2	47-1/2	37-1/2	9.5	2.5	3	R50
4-0/3-6	47-1/2	41-1/2	10.7	2.5	3	R50
4-0/3-10	47-1/2	45-1/2	11.9	2.5	3	R50
4-0/4-0	47-1/2	47-1/2	12.5	2.5	3	R50
4-0/4-4	47-1/2	51-1/2	13.6	2.5	3	R50
4-0/4-6	47-1/2	53-1/2	14.2	2.5	3	R50
4-0/5-0	47-1/2	59-1/2	16.0	2.5	3	R50
4-0/5-2	47-1/2	61-1/2	16.6	2.5	3	R25
4-0/5-6	47-1/2	65-1/2	17.8	2.5	3	R25
4-0/6-0	47-1/2	71-1/2	19.5	2.5	3	R25
4-6/2-0	53-1/2	23-1/2	6.2	2.5	3	R50
4-6/3-0	53-1/2	35-1/2	10.2	2.5	3	R50
4-6/3-2	53-1/2	37-1/2	10.9	2.5	3	R50
4-6/3-6	53-1/2	41-1/2	12.2	3	3	R50
4-6/3-10	53-1/2	45-1/2	13.6	3	3	R50
4-6/4-0	53-1/2	47-1/2	14.2	3	3	R50
4-6/4-4	53-1/2	51-1/2	15.6	3	3	R50
4-6/4-6	53-1/2	53-1/2	16.3	3	3	R50
4-6/5-0	53-1/2	59-1/2	18.3	3	3	R50
4-6/5-2	53-1/2	61-1/2	18.9	3	3	R25
4-6/5-6	53-1/2	65-1/2	20.3	3	3	R25
4-6/6-0	53-1/2	71-1/2	22.3	3	3	R25
5-0/2-0	59-1/2	23-1/2	6.9	3	3	R50
5-0/3-0	59-1/2	35-1/2	11.5	3	3	R50
5-0/3-2	59-1/2	37-1/2	12.2	3	3	R50
5-0/3-6	59-1/2	41-1/2	13.7	3	3	R50
5-0/3-10	59-1/2	45-1/2	15.2	3	3	R50
5-0/4-0	59-1/2	47-1/2	16.0	3	3	R50
5-0/4-4	59-1/2	51-1/2	17.5	3	3	R50
5-0/4-6	59-1/2	53-1/2	18.3	3	3	R50
5-0/5-0	59-1/2	59-1/2	20.5	3	3	R50
5-0/5-2	59-1/2	61-1/2	21.3	3	3	R25
5-0/5-6	59-1/2	65-1/2	22.8	3	3	R25
5-0/6-0	59-1/2	71-1/2	25.1	3	3	R25

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.

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

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



East Region Only



Pella® 150 Series Double-Hung Window

Design Data

2-Wide Vent - 3-1/4" New Construction Frame

Unit	Egress	Frame (Inches)		Clear Opening (Vent Units Only)			Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height	Width	Height	Ft²		Annealed	Tempered	Standard	Upgrade ²
4-0/3-0		47-1/2	35-1/2	18-7/8	12-1/16	1.5	6.5	2.5	3	R35	R50
4-0/3-2		47-1/2	37-1/2	18-7/8	13-1/16	1.7	7.0	2.5	3	R35	R50
4-0/3-6		47-1/2	41-1/2	18-7/8	15-1/16	1.9	7.9	2.5	3	R35	R50
4-0/3-10		47-1/2	45-1/2	18-7/8	17-1/16	2.2	8.9	2.5	3	R35	R50
4-0/4-0		47-1/2	47-1/2	18-7/8	18-1/16	2.3	9.3	2.5	3	R35	R50
4-0/4-4		47-1/2	51-1/2	18-7/8	20-1/16	2.6	10.3	2.5	3	R35	R50
4-0/4-6		47-1/2	53-1/2	18-7/8	21-1/16	2.7	10.7	2.5	3	R35	R50
4-0/5-0		47-1/2	59-1/2	18-7/8	24-1/16	3.1	12.2	2.5	3	R35	R50
4-0/5-2		47-1/2	61-1/2	18-7/8	25-1/16	3.2	12.6	2.5	3	R35	R50
4-0/5-6		47-1/2	65-1/2	18-7/8	27-1/16	3.5	13.6	2.5	3	R35	R50
4-0/6-0		47-1/2	71-1/2	18-7/8	30-1/16	3.9	15.0	2.5	3	R35	R50
4-8/3-0		55-1/2	35-1/2	22-7/8	12-1/16	1.9	8.0	2.5	3	R35	R50
4-8/3-2		55-1/2	37-1/2	22-7/8	13-1/16	2.0	8.6	2.5	3	R35	R50
4-8/3-6		55-1/2	41-1/2	22-7/8	15-1/16	2.3	9.8	2.5	3	R35	R50
4-8/3-10		55-1/2	45-1/2	22-7/8	17-1/16	2.7	10.9	2.5	3	R35	R50
4-8/4-0		55-1/2	47-1/2	22-7/8	18-1/16	2.8	11.5	2.5	3	R35	R50
4-8/4-4		55-1/2	51-1/2	22-7/8	20-1/16	3.1	12.7	2.5	3	R35	R50
4-8/4-6		55-1/2	53-1/2	22-7/8	21-1/16	3.3	13.3	2.5	3	R35	R50
4-8/5-0		55-1/2	59-1/2	22-7/8	24-1/16	3.8	15.0	2.5	3	R35	R50
4-8/5-2		55-1/2	61-1/2	22-7/8	25-1/16	3.9	15.6	2.5	3	R35	R50
4-8/5-6		55-1/2	65-1/2	22-7/8	27-1/16	4.3	16.8	2.5	3	R35	R50
4-8/6-0		55-1/2	71-1/2	22-7/8	30-1/16	4.7	18.5	2.5	3	R35	R50
5-0/3-0		59-1/2	35-1/2	24-7/8	12-1/16	2.0	8.8	2.5	3	R35	R50
5-0/3-2		59-1/2	37-1/2	24-7/8	13-1/16	2.2	9.4	2.5	3	R35	R50
5-0/3-6		59-1/2	41-1/2	24-7/8	15-1/16	2.6	10.7	2.5	3	R35	R50
5-0/3-10		59-1/2	45-1/2	24-7/8	17-1/16	2.9	12.0	2.5	3	R35	R50
5-0/4-0		59-1/2	47-1/2	24-7/8	18-1/16	3.1	12.6	2.5	3	R35	R50
5-0/4-4		59-1/2	51-1/2	24-7/8	20-1/16	3.4	13.9	2.5	3	R35	R50
5-0/4-6		59-1/2	53-1/2	24-7/8	21-1/16	3.6	14.5	2.5	3	R35	R50
5-0/5-0		59-1/2	59-1/2	24-7/8	24-1/16	4.1	16.5	2.5	3	R35	R50
5-0/5-2		59-1/2	61-1/2	24-7/8	25-1/16	4.3	17.1	2.5	3	R35	R50
5-0/5-6		59-1/2	65-1/2	24-7/8	27-1/16	4.6	18.4	2.5	3	R35	R50
5-0/6-0	E1	59-1/2	71-1/2	24-7/8	30-1/16	5.1	20.3	2.5	3	R35	R50

1 of 2

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.

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.

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

(2) Indicates performance with additional steel reinforcement in sash cavity.

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



East Region Only



Pella® 150 Series Double-Hung Window

Design Data

2-Wide Vent - 3-1/4" New Construction Frame

Unit	Egress	Frame (Inches)		Clear Opening (Vent Units Only)			Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹	
		Width	Height	Width	Height	Ft²		Annealed	Tempered	Standard	Upgrade ²
5-4/3-0		63-1/2	35-1/2	26-7/8	12-1/16	2.2	9.5	2.5	3	R35	R50
5-4/3-2		63-1/2	37-1/2	26-7/8	13-1/16	2.4	10.2	2.5	3	R35	R50
5-4/3-6		63-1/2	41-1/2	26-7/8	15-1/16	2.8	11.6	2.5	3	R35	R50
5-4/3-10		63-1/2	45-1/2	26-7/8	17-1/16	3.1	13.0	2.5	3	R35	R50
5-4/4-0		63-1/2	47-1/2	26-7/8	18-1/16	3.3	13.7	2.5	3	R35	R50
5-4/4-4		63-1/2	51-1/2	26-7/8	20-1/16	3.7	15.1	2.5	3	R35	R50
5-4/4-6		63-1/2	53-1/2	26-7/8	21-1/16	3.9	15.8	2.5	3	R35	R50
5-4/5-0		63-1/2	59-1/2	26-7/8	24-1/16	4.5	17.9	2.5	3	R35	R50
5-4/5-2		63-1/2	61-1/2	26-7/8	25-1/16	4.6	18.6	2.5	3	R35	R50
5-4/5-6	E ₁	63-1/2	65-1/2	26-7/8	27-1/16	5.0	20.0	2.5	3	R35	R50
5-4/6-0	E ₁	63-1/2	71-1/2	26-7/8	30-1/16	5.6	22.0	2.5	3	R35	R50
6-0/3-0		71-1/2	35-1/2	30-7/8	12-1/16	2.5	11.1	2.5	3	R35	R50
6-0/3-2		71-1/2	37-1/2	30-7/8	13-1/16	2.8	11.9	2.5	3	R35	R50
6-0/3-6		71-1/2	41-1/2	30-7/8	15-1/16	3.2	13.5	2.5	3	R35	R50
6-0/3-10		71-1/2	45-1/2	30-7/8	17-1/16	3.6	15.1	2.5	3	R35	R50
6-0/4-0		71-1/2	47-1/2	30-7/8	18-1/16	3.8	15.9	2.5	3	R35	R50
6-0/4-4		71-1/2	51-1/2	30-7/8	20-1/16	4.3	17.5	2.5	3	R35	R50
6-0/4-6		71-1/2	53-1/2	30-7/8	21-1/16	4.5	18.3	2.5	3	R35	R50
6-0/5-0	E ₁	71-1/2	59-1/2	30-7/8	24-1/16	5.1	20.7	2.5	3	R35	R50
6-0/5-2	E ₁	71-1/2	61-1/2	30-7/8	25-1/16	5.3	21.5	2.5	3	R35	R50
6-0/5-6	E	71-1/2	65-1/2	30-7/8	27-1/16	5.8	23.2	2.5	3	R35	R50
6-0/6-0	E	71-1/2	71-1/2	30-7/8	30-1/16	6.4	25.6	3	3	R35	R50
6-4/3-0		75-1/2	35-1/2	32-7/8	12-1/16	2.7	11.9	2.5	3	R25	—
6-4/3-2		75-1/2	37-1/2	32-7/8	13-1/16	2.9	12.8	2.5	3	R25	—
6-4/3-6		75-1/2	41-1/2	32-7/8	15-1/16	3.4	14.5	2.5	3	R25	—
6-4/3-10		75-1/2	45-1/2	32-7/8	17-1/16	3.9	16.2	2.5	3	R25	—
6-4/4-0		75-1/2	47-1/2	32-7/8	18-1/16	4.1	17.1	2.5	3	R25	—
6-4/4-4		75-1/2	51-1/2	32-7/8	20-1/16	4.5	18.8	2.5	3	R25	—
6-4/4-6		75-1/2	53-1/2	32-7/8	21-1/16	4.8	19.7	2.5	3	R25	—
6-4/5-0	E ₁	75-1/2	59-1/2	32-7/8	24-1/16	5.5	22.3	2.5	3	R25	—
6-4/5-2	E	75-1/2	61-1/2	32-7/8	25-1/16	5.7	23.2	2.5	3	R25	—
6-4/5-6	E	75-1/2	65-1/2	32-7/8	27-1/16	6.1	24.9	3	3	R25	—
6-4/6-0	E	75-1/2	71-1/2	32-7/8	30-1/16	6.8	27.5	3	3	R25	—
6-8/3-0		79-1/2	35-1/2	34-7/8	12-1/16	2.9	12.6	2.5	3	R25	—
6-8/3-2		79-1/2	37-1/2	34-7/8	13-1/16	3.1	13.5	2.5	3	R25	—
6-8/3-6		79-1/2	41-1/2	34-7/8	15-1/16	3.6	15.4	2.5	3	R25	—
6-8/3-10		79-1/2	45-1/2	34-7/8	17-1/16	4.1	17.2	2.5	3	R25	—
6-8/4-0		79-1/2	47-1/2	34-7/8	18-1/16	4.3	18.1	2.5	3	R25	—
6-8/4-4		79-1/2	51-1/2	34-7/8	20-1/16	4.8	19.9	2.5	3	R25	—
6-8/4-6		79-1/2	53-1/2	34-7/8	21-1/16	5.1	20.9	2.5	3	R25	—
6-8/5-0	E	79-1/2	59-1/2	34-7/8	24-1/16	5.8	23.6	2.5	3	R25	—
6-8/5-2	E	79-1/2	61-1/2	34-7/8	25-1/16	6.0	24.5	3	3	R25	—
6-8/5-6	E	79-1/2	65-1/2	34-7/8	27-1/16	6.5	26.4	3	3	R25	—
6-8/6-0	E	79-1/2	71-1/2	34-7/8	30-1/16	7.2	29.1	3	3	R25	—

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.

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.



East Region Only

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

(2) Indicates performance with additional steel reinforcement in sash cavity.

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



Pella® 150 Series Double-Hung Window

Design Data

3-Wide Vent - 3-1/4" New Construction Frame

Unit	Egress	Frame (Inches)		Clear Opening (Vent Units Only)			Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade¹
		Width	Height	Width	Height	Ft²		Annealed	Tempered	
6-0/3-0		71-1/2	35-1/2	18-7/8	12-1/16	1.5	9.5	2.5	3	R35
6-0/3-2		71-1/2	37-1/2	18-7/8	13-1/16	1.7	10.2	2.5	3	R35
6-0/3-6		71-1/2	41-1/2	18-7/8	15-1/16	1.9	11.6	2.5	3	R35
6-0/3-10		71-1/2	45-1/2	18-7/8	17-1/16	2.2	13.0	2.5	3	R35
6-0/4-0		71-1/2	47-1/2	18-7/8	18-1/16	2.3	13.6	2.5	3	R35
6-0/4-4		71-1/2	51-1/2	18-7/8	20-1/16	2.6	15.0	2.5	3	R35
6-0/4-6		71-1/2	53-1/2	18-7/8	21-1/16	2.7	15.7	2.5	3	R35
6-0/5-0		71-1/2	59-1/2	18-7/8	24-1/16	3.1	17.8	2.5	3	R25
6-0/5-2		71-1/2	61-1/2	18-7/8	25-1/16	3.2	18.5	2.5	3	R25
6-0/5-6		71-1/2	65-1/2	18-7/8	27-1/16	3.5	19.9	2.5	3	R25
6-0/6-0		71-1/2	71-1/2	18-7/8	30-1/16	3.9	21.9	2.5	3	R25
7-0/3-0		83-1/2	35-1/2	22-7/8	12-1/16	1.9	11.8	2.5	3	R35
7-0/3-2		83-1/2	37-1/2	22-7/8	13-1/16	2.0	12.7	2.5	3	R35
7-0/3-6		83-1/2	41-1/2	22-7/8	15-1/16	2.3	14.4	2.5	3	R35
7-0/3-10		83-1/2	45-1/2	22-7/8	17-1/16	2.7	16.1	2.5	3	R35
7-0/4-0		83-1/2	47-1/2	22-7/8	18-1/16	2.8	16.9	2.5	3	R35
7-0/4-4		83-1/2	51-1/2	22-7/8	20-1/16	3.1	18.7	2.5	3	R35
7-0/4-6		83-1/2	53-1/2	22-7/8	21-1/16	3.3	19.5	2.5	3	R35
7-0/5-0		83-1/2	59-1/2	22-7/8	24-1/16	3.8	22.1	2.5	3	R35
7-0/5-2		83-1/2	61-1/2	22-7/8	25-1/16	3.9	22.9	2.5	3	R35
7-0/5-6		83-1/2	65-1/2	22-7/8	27-1/16	4.3	24.7	2.5	3	R35
7-0/6-0		83-1/2	71-1/2	22-7/8	30-1/16	4.7	27.2	2.5	3	R35
7-6/3-0		88-1/2	35-1/2	24-7/8	12-1/16	2.0	12.9	2.5	3	R35
7-6/3-2		88-1/2	37-1/2	24-7/8	13-1/16	2.2	13.9	2.5	3	R35
7-6/3-6		88-1/2	41-1/2	24-7/8	15-1/16	2.6	15.8	2.5	3	R35
7-6/3-10		88-1/2	45-1/2	24-7/8	17-1/16	2.9	17.6	2.5	3	R35
7-6/4-0		88-1/2	47-1/2	24-7/8	18-1/16	3.1	18.6	2.5	3	R35
7-6/4-4		88-1/2	51-1/2	24-7/8	20-1/16	3.4	20.5	2.5	3	R35
7-6/4-6		88-1/2	53-1/2	24-7/8	21-1/16	3.6	21.4	2.5	3	R35
7-6/5-0		88-1/2	59-1/2	24-7/8	24-1/16	4.1	24.2	2.5	3	R35
7-6/5-2		88-1/2	61-1/2	24-7/8	25-1/16	4.3	25.2	2.5	3	R35
7-6/5-6		88-1/2	65-1/2	24-7/8	27-1/16	4.6	27.1	2.5	3	R35
7-6/6-0	E1	88-1/2	71-1/2	24-7/8	30-1/16	5.1	29.9	2.5	3	R35
8-0/3-0		95-1/2	35-1/2	26-7/8	12-1/16	2.2	14.1	2.5	3	R35
8-0/3-2		95-1/2	37-1/2	26-7/8	13-1/16	2.4	15.1	2.5	3	R35
8-0/3-6		95-1/2	41-1/2	26-7/8	15-1/16	2.8	17.2	2.5	3	R35
8-0/3-10		95-1/2	45-1/2	26-7/8	17-1/16	3.1	19.2	2.5	3	R35
8-0/4-0		95-1/2	47-1/2	26-7/8	18-1/16	3.3	20.2	2.5	3	R35
8-0/4-4		95-1/2	51-1/2	26-7/8	20-1/16	3.7	22.3	2.5	3	R35
8-0/4-6		95-1/2	53-1/2	26-7/8	21-1/16	3.9	23.3	2.5	3	R35
8-0/5-0		95-1/2	59-1/2	26-7/8	24-1/16	4.5	26.4	2.5	3	R35
8-0/5-2		95-1/2	61-1/2	26-7/8	25-1/16	4.6	27.4	2.5	3	R35
8-0/5-6	E1	95-1/2	65-1/2	26-7/8	27-1/16	5.0	29.4	2.5	3	R35
8-0/6-0	E1	95-1/2	71-1/2	26-7/8	30-1/16	5.6	32.5	2.5	3	R35
9-0/3-0		107-1/2	35-1/2	30-7/8	12-1/16	2.5	16.4	2.5	3	R35
9-0/3-2		107-1/2	37-1/2	30-7/8	13-1/16	2.8	17.6	2.5	3	R35
9-0/3-6		107-1/2	41-1/2	30-7/8	15-1/16	3.2	19.9	2.5	3	R35
9-0/3-10		107-1/2	45-1/2	30-7/8	17-1/16	3.6	22.3	2.5	3	R35
9-0/4-0		107-1/2	47-1/2	30-7/8	18-1/16	3.8	23.5	2.5	3	R35
9-0/4-4		107-1/2	51-1/2	30-7/8	20-1/16	4.3	25.9	2.5	3	R35
9-0/4-6		107-1/2	53-1/2	30-7/8	21-1/16	4.5	27.1	2.5	3	R35
9-0/5-0	E1	107-1/2	59-1/2	30-7/8	24-1/16	5.1	30.7	2.5	3	R35
9-0/5-2	E1	107-1/2	61-1/2	30-7/8	25-1/16	5.3	31.9	2.5	3	R35

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.

Pella® 150 Series vinyl window products are intended only for use less than 40 feet above ground level.



East Region Only

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

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



Pella® 150 Series Double-Hung Window

Detailed Product Description

Frame

- Overall frame depth is [3-1/4" replacement frame with optional sill adapter and head expander] [3-1/4" new construction frame with integral fin].
- Frame members are extruded, rigid uPVC [with optional foam insulation¹].
- Frame members are mitered and heat-fused to provide a fully welded corner assembly.

Sash

- Sash members are extruded, rigid uPVC [with optional foam insulation¹].
- Sash members are mitered and heat-fused to provide a fully welded corner assembly.
- Includes an integral extruded sash lift.

Weatherstripping

- Frame and sash is weatherstripped around the perimeter with a fin-type, pile weatherstripping.

Glazing System ²

- Quality float glass complying with ASTM C1036.
- Exterior face-glazed 3/4" sealed insulating glass.
- [[Annealed] [tempered]] [Clear] [[Advanced] [SunDefense™] [SunDefense+] [NaturalSun] [NaturalSun+] Low-E [with argon]] [obscure] Low-E [with argon]].

Interior / Exterior

- All window frame members have an integral color extruded throughout the profiles.
- All exposed PVC surfaces are smooth, glossy and uniform in appearance.
- Color: [Almond] [White] [Fossil].

Hardware

- Constant force balances connected to sash with stainless steel spring and concealed within the frame
- Upper and lower sashes are fully operable for ventilation.
- All fasteners are corrosion-resistant material compatible with uPVC.
- Locks are factory-installed, zinc die cast, self-aligning, cam action locks located on the checkrail.
- Two sash locks are installed on units with 29-1/2" or greater frame width.
- Tilt latches are factory installed and are located on the checkrail of the lower sash and the top rail of the upper sash.
- Factory pre-finished to match interior.

Screen

- Full-size with black vinyl coated 18/14 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201.
- Set in aluminum frame and fitted to exterior of window.
- Screens for windows with frame width >39" or frame height >53-1/2" have a screen spreader bar

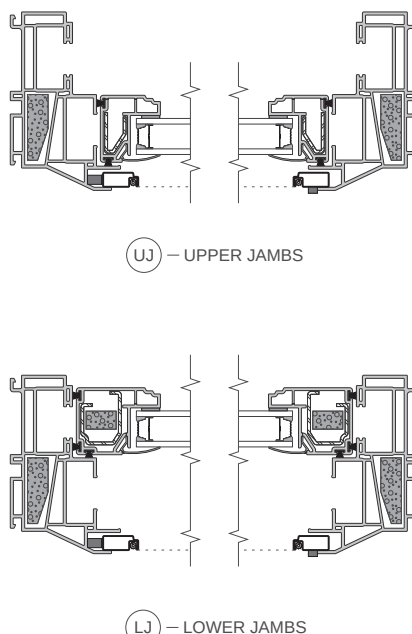
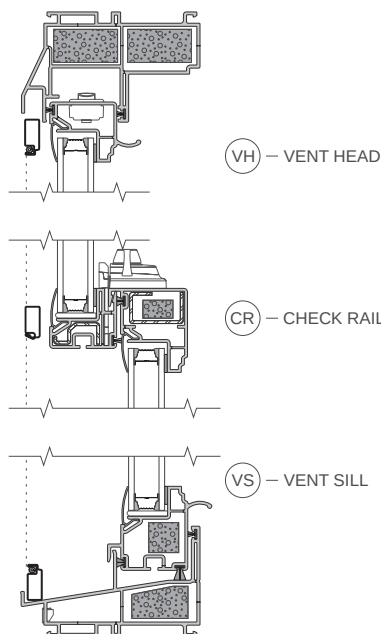
Optional Products

- Primed wood jamb extensions available on 2-1/8" wall depth frame-for [4-9/16"] and [6-9/16"] frame depth.

Grilles

- Grilles-Between-the-Glass
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Grilles match color of frame.
- Optional limited opening hardware for field installation available for vent units in extruded vinyl, color to match the unit; nominal 3-3/4" opening.
- Optional window opening control device available for factory or field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

Foam Insulation Inserts ¹



East Region Only

(1) Foam insulation inserts are not available with clear glazing.

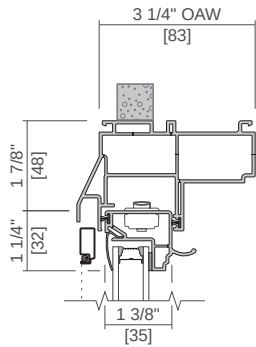
(2) SunDefense+ and NaturalSun+ are only available with argon fill, and are not available for obscure glass.



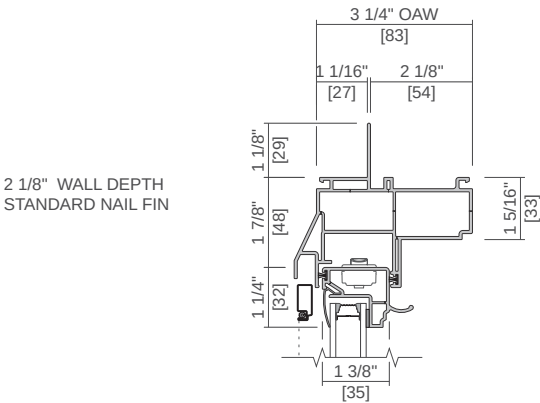
Pella® 150 Series Double-Hung Window

Frame Types

REPLACEMENT FRAME
Standard Block Frame with Foam Insulation



NEW CONSTRUCTION FRAME
Standard Nail Fin



2 1/8" WALL DEPTH
STANDARD NAIL FIN



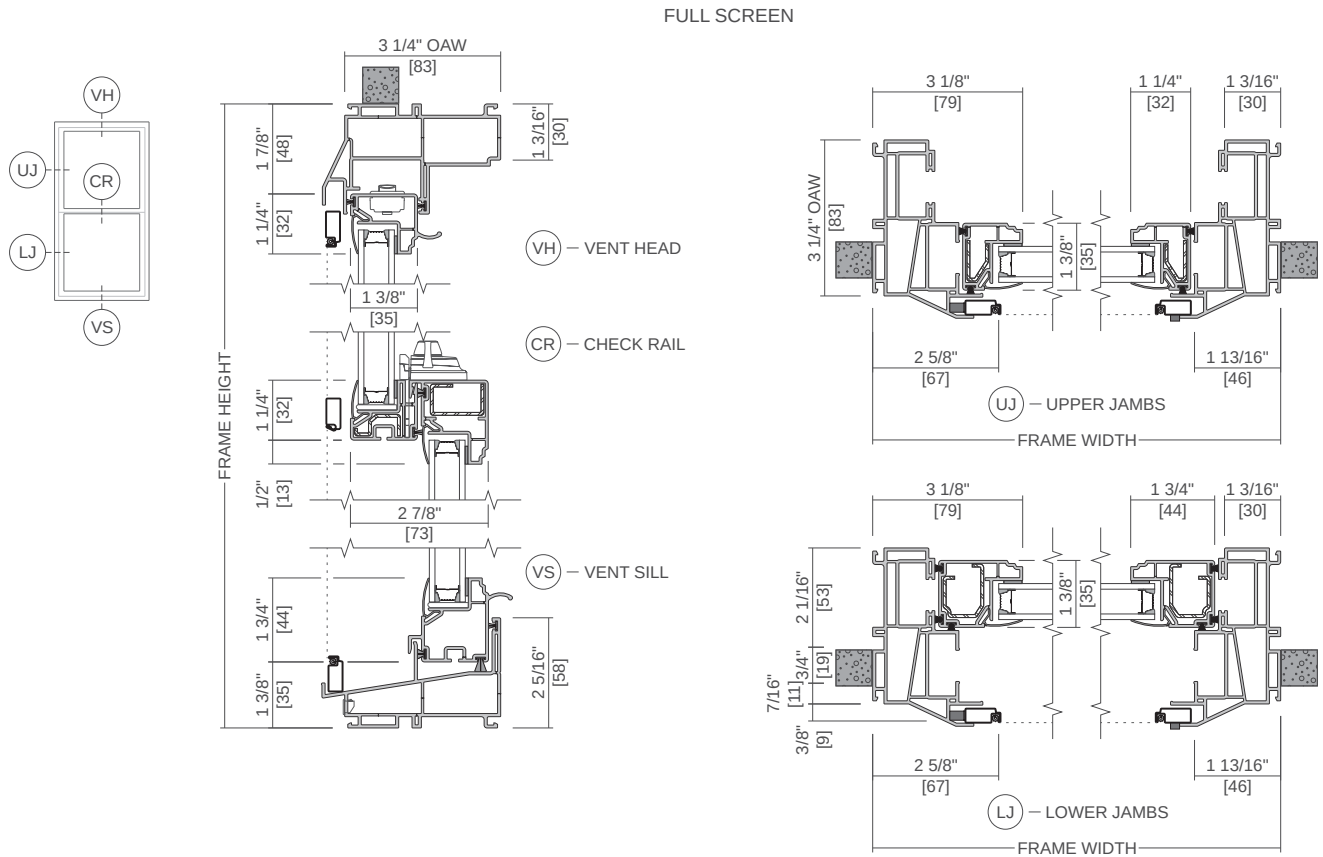
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Scale 3" = 1' 0"
All dimensions are approximate.



Pella® 150 Series Double-Hung Window

Unit Sections - 3-1/4" Replacement Frame



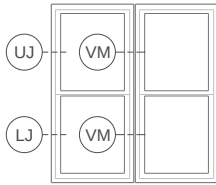
East Region Only

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

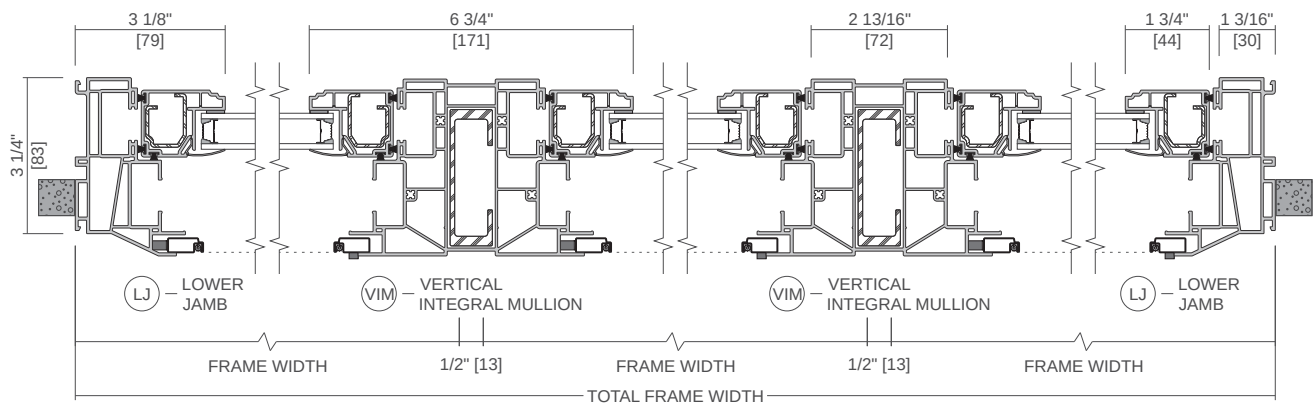
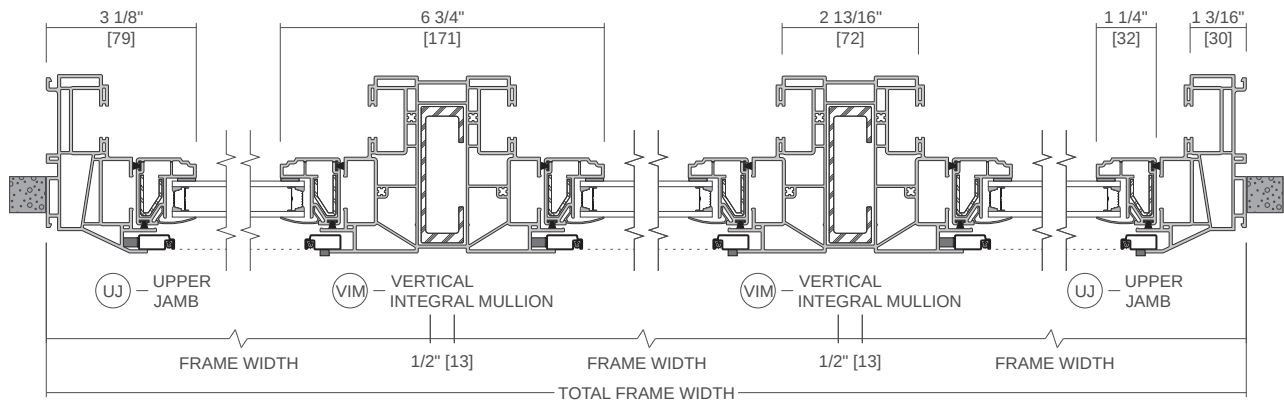
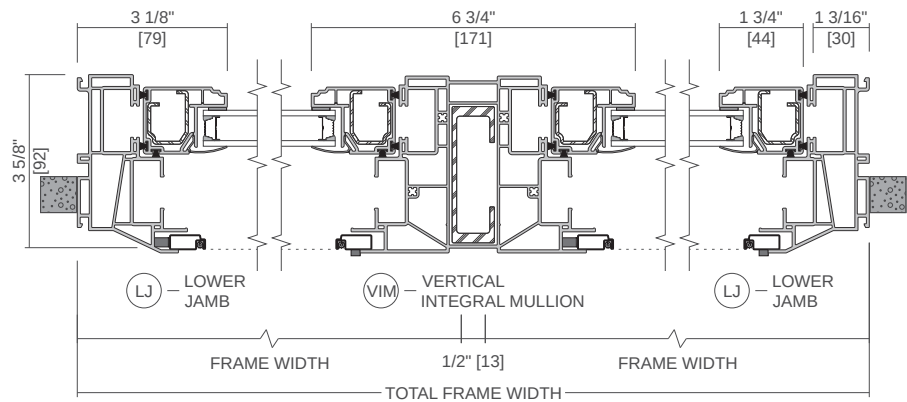
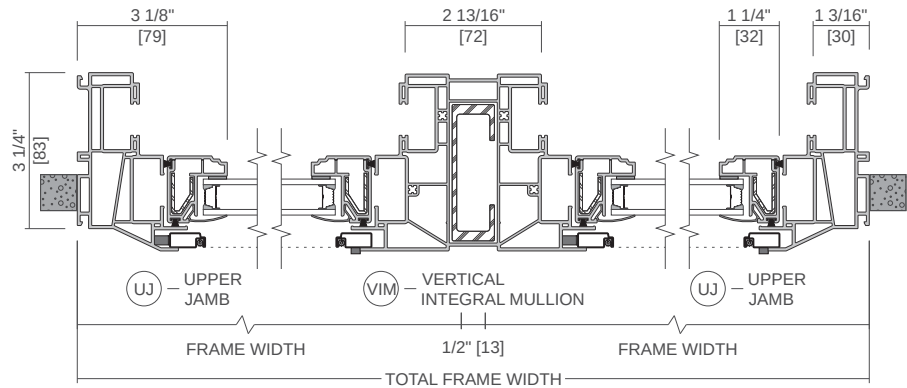
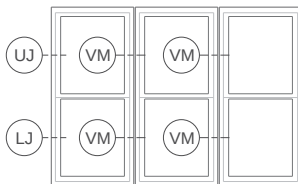


Pella® 150 Series Double-Hung Window

Unit Sections - 3-1/4" Replacement Frame Composite with Integral Mullion



East Region Only



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

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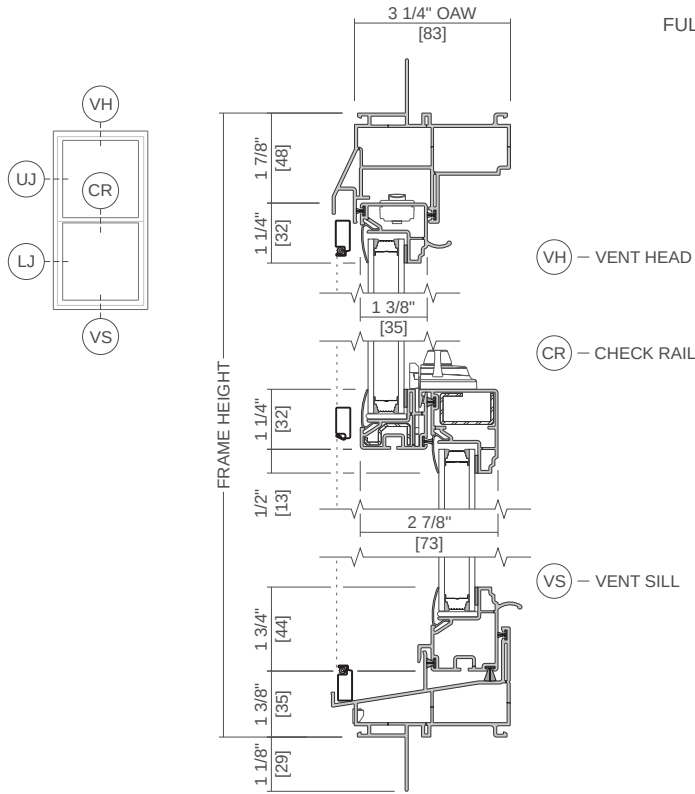
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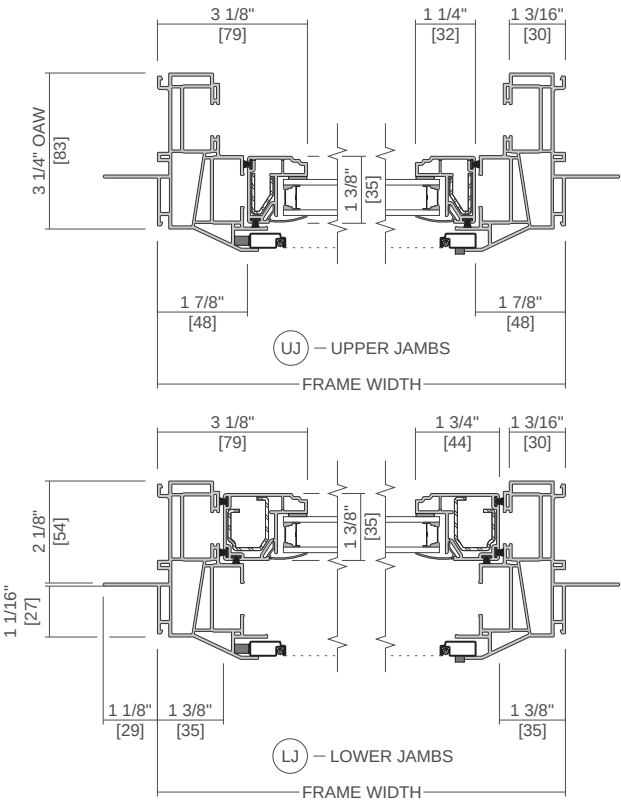


Pella® 150 Series Double-Hung Window

Unit Sections - 3-1/4" New Construction Frame



FULL SCREEN



East Region Only

Scale 3" = 1' 0"

All dimensions are approximate.

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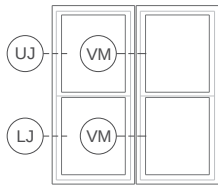
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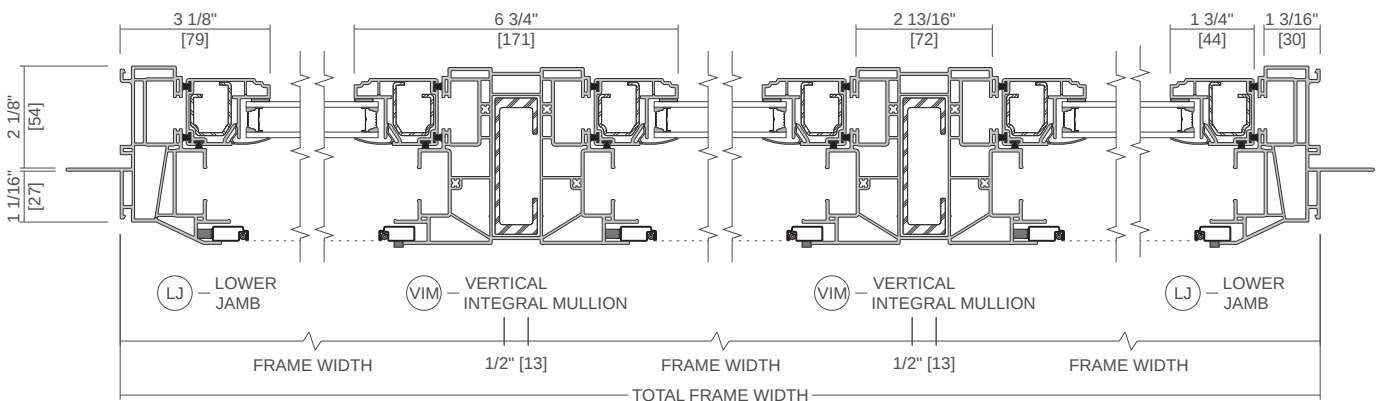
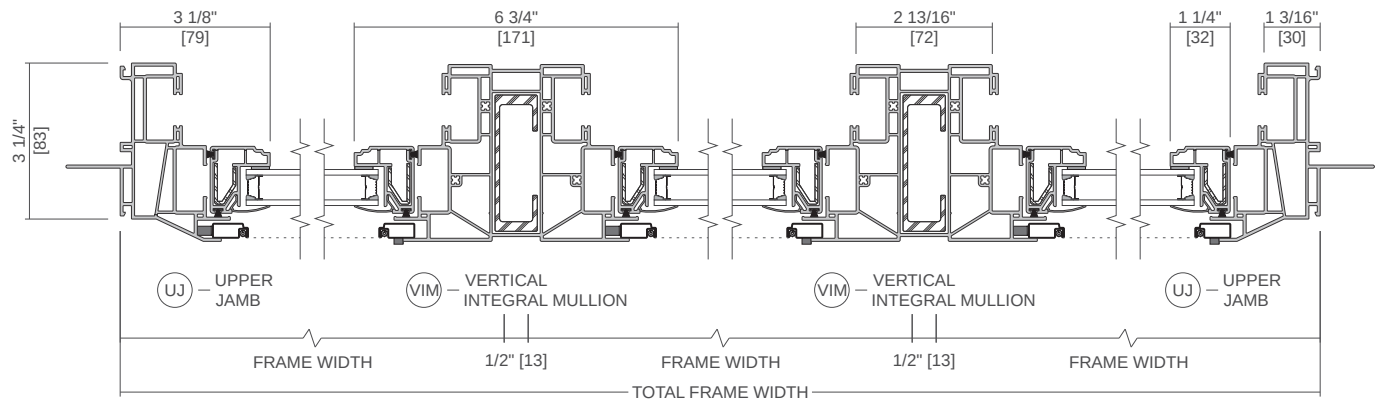
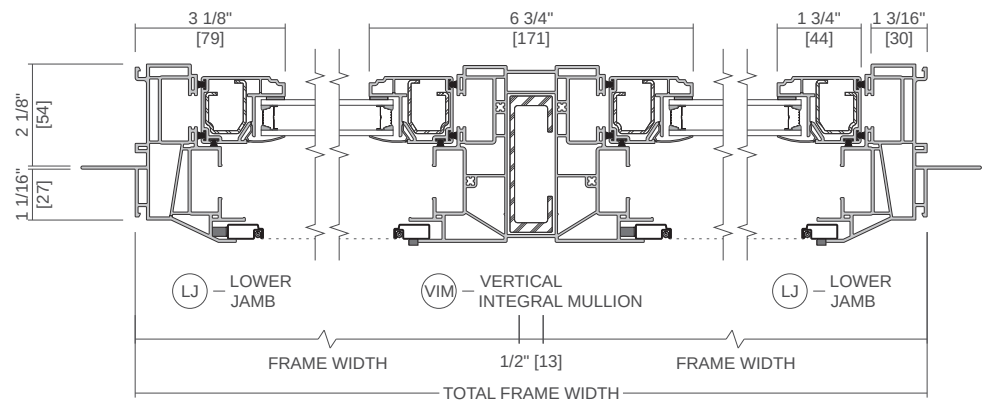
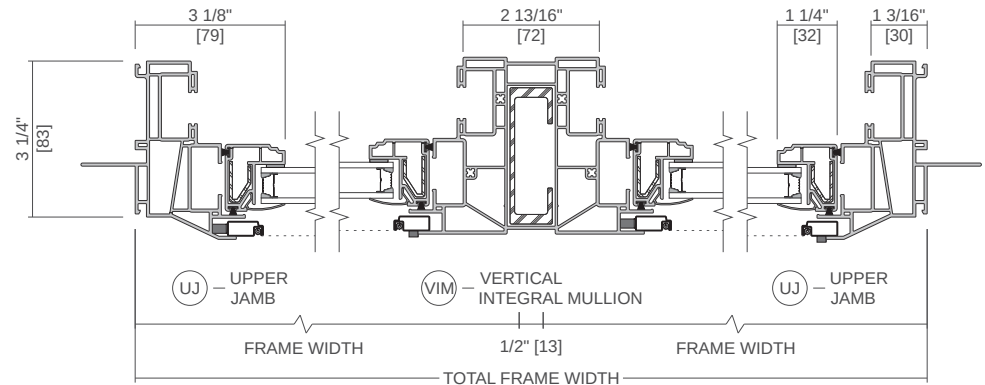
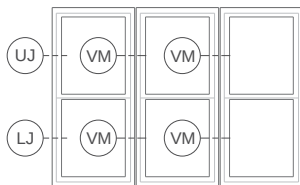


Pella® 150 Series Double-Hung Window

Unit Sections - 3-1/4" New Construction Frame Composite with Integral Mullion



East Region Only



Scale 3" = 1' 0"

All dimensions are approximate.

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V-DH-25