



Product Selection Guide

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Document Navigation Tips:

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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:

- Test Reports:
- https://media.pella.com/professional/adm/CertificationReports/Test_Reports_LS-Dual.pdf?utm_source=pdfdoc
 - https://media.pella.com/professional/adm/CertificationReports/Test_Reports_LS-Triple.pdf?utm_source=pdfdoc
- CSI Specs (readable using Microsoft Word or other text editing application):
- https://media.pella.com/professional/adm/Wood-CSI_Specs/08551.rtf?utm_source=pdfdoc
- Detailed Product Description (readable using Microsoft Word or other text editing application):
- https://media.pella.com/professional/adm/Clad-Wood-LS/PellaLifestyleSrs-AW_DPD.rtf?utm_source=pdfdoc
- Size Tables (requires appropriate CAD software to read and use):
- https://media.pella.com/professional/adm/Clad-Wood-LS/LSCAWE_D.dwg?utm_source=pdfdoc
- CAD cross sections (requires appropriate CAD software to read and use):
- https://media.pella.com/professional/adm/Clad-Wood-LS/LS-AW_XSEC.dwg?utm_source=pdfdoc
- 3D & BIM (requires appropriate software to read and use):
- https://media.pella.com/professional/adm/RevitFiles/LS-Revit/Window-Awning-Pella-Lifestyle_Series.zip?utm_source=pdfdoc
- Sketchup (requires appropriate software to read and use):
- https://media.pella.com/professional/adm/Clad-Wood-LS/PellaSKP_LifestyleSeries_Awning.zip?utm_source=pdfdoc
- Combination Recommendations:
- https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf?utm_source=pdfdoc
- Installation Details:
- https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf?utm_source=pdfdoc

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Lifestyle Series Casement

Performance Data

Size and Performance Data

	Dual-Pane Glazing	Triple-Pane Glazing
Sizes		
Standard vent/fixed sizes	●	●
Special sizes available	●	●
Performance₁		
Meets or Exceeds AAMA/WDMA Ratings	LC30 - LC50 Hallmark Certified	R20 - CW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure) ₂	0.05	0.05
Water Resistance	4.59 - 7.52 psf	7.5 psf
Design Pressure	30 - 50 psf	20 - 50 psf
Other Performance Criteria		
Forced Entry Resistance Level (Minimum Security Grade) ₃	40	40
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ₄	15/6	15/6

Sound Transmission Class / Outdoor-Indoor Transmission Class

Frame Size Tested ₄	Glazing System				STC Rating	OITC Rating
	Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness (ML)		
VENT – Dual-Pane Glass						
23" x 59"	11/16"	2.5mm	2.5mm	–	25	22
23" x 59"	11/16"	5mm	3mm	–	31	26
FIXED – Dual-Pane Glass						
47"x 59"	11/16"	3mm	3mm	—	28	24
47"x 59"	11/16"	5mm	3mm	—	30	28
VENT – Triple-Pane Glass						
23" x 59"	11/16"	2.5mm	2.5mm	2.5mm	31	25
23" x 59"	11/16"	5mm	3mm	4mm	36	31
23" x 59" with shade	11/16"	5mm	3mm	4mm	37	34
23" x 59" with blind	11/16"	5mm	3mm	4mm	36	32
FIXED – Triple-Pane Glass						
47"x 59"	11/16"	3mm	3mm	3mm	33	27
47"x 59"	11/16"	5mm	3mm	4mm	35	30
47"x 59" with shade	11/16"	5mm	3mm	4mm	37	31
47"x 59" with blind	11/16"	5mm	3mm	4mm	35	30
47"x 59"	11/16"	4mm	6mm	4mm	35	29
47"x 59" with shade	11/16"	4mm	6mm	4mm	37	31
47"x 59" with blind	11/16"	4mm	6mm	4mm	36	30

(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. Values shown are for standard and special sizes. Contact your local sales representative for complete information.

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



Lifestyle Series Casement

Features and Options

Standard	Options / Upgrades
Glazing	
Glazing Type	
Dual-Pane Glazing	Triple-Pane Glazing with Clear Hinged Glass Panel
Insulated Glass Options/Low-E Types	
Advanced Low-E	SunDefense™ Low-E
	SunDefense+ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	NaturalSun+ Low-E
Glass Performance Package Options	
Base Package (Dual-Pane)	Performance Package - Triple-Pane
	Sound Control Package - Triple-Pane with STC glass
	Energy Efficiency Package - Triple-Pane with AdvancedComfort Low-E
	Ultimate Performance Package - Triple-Pane with AdvancedComfort Low-E and STC glass
Additional Glass Options	
Annealed Glass	STC Glazing Options
	Tempered Glass
	Obscure Glass ¹
Gas Fill/High Altitude	
Argon	High altitude (Air-filled only)
Exterior	
EnduraClad® Cladding Colors¹	
4 Standard colors	8 Feature colors
Interior¹	
Unfinished wood	Factory primed, Factory prefinished paint, Factory prefinished stain
Wood Types	
Pine	—
Hardware	
Champagne, White, Brown or Matte Black	Satin Nickel, Satin Brass
Sash Locks	
Innovative Locking System, Unison Lock System ²	—
Hinging	
Large Awning—Wash Hinge	Side-Pivot
Grilles	
Simulated-Divided-Light with Optional Spacer (Dual-Pane glazing)	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
Simulated-Divided-Light with Grilles-Between-the-Glass (Triple-Pane glazing)	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
Grilles-Between-the-Glass	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
Integrated Between-the-Glass Options (Triple-Pane Only)¹	
Cellular Fabric Shades	
—	Raise-and-lower bottom-up
Slimshade® Blinds	
—	Raise-and-lower bottom-up
Screens	
—	InView™ screens, Rolscreen® Retractable Screen

(—) = Not Available

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

(2) Unit height determines availability.

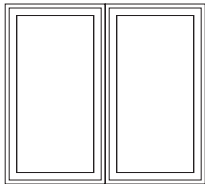


Combination Assemblies

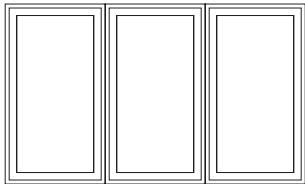
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Some units can be fixed or vent depending on availability. Refer to Combinations section for requirements and limitations.

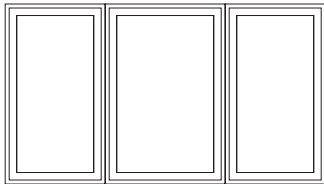
Contact your local Pella sales representative for more information.



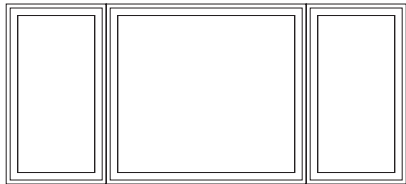
Two-Wide



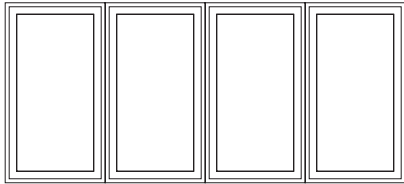
Three-Wide Equal



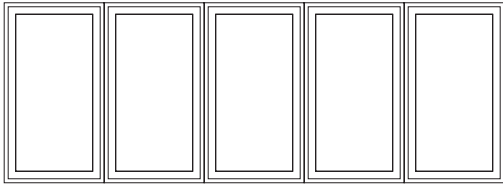
Three-Wide Unequal



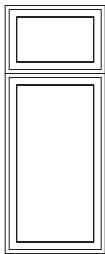
Center Fixed with Flankers



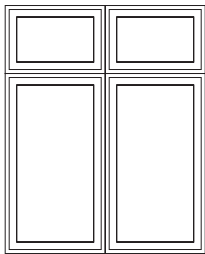
Four-Wide



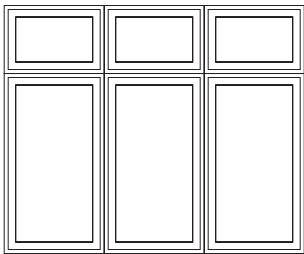
Five-Wide



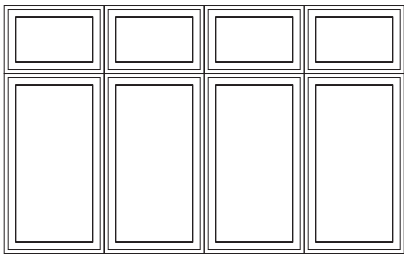
Transom over
Single



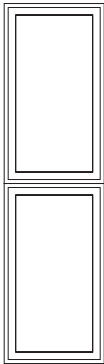
Two-Wide Transom
over Two-Wide



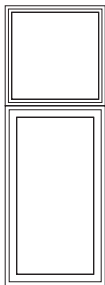
Three-Wide Transom over
Three-Wide



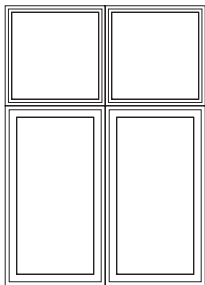
Four-Wide Transom over
Four-Wide



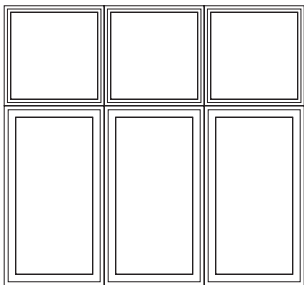
Two-High



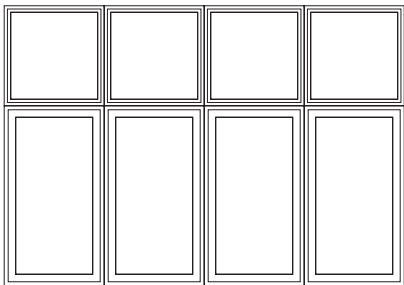
Clad Frame over
Single



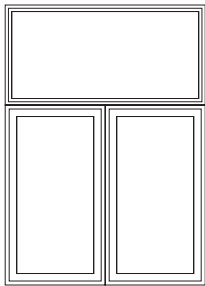
Two-Wide Clad Frame over
Two-Wide



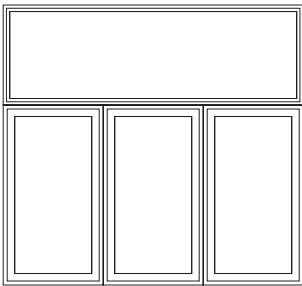
Three-Wide Clad Frame over
Three-Wide



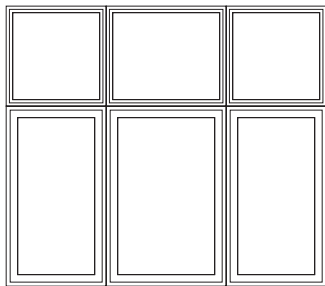
Four-Wide Clad Frame over
Four-Wide



Single Clad Frame over
Two-Wide



Single Clad Frame over
Three-Wide



Three-Wide Clad Frame over
Three-Wide Unequal



Lifestyle Series Casement

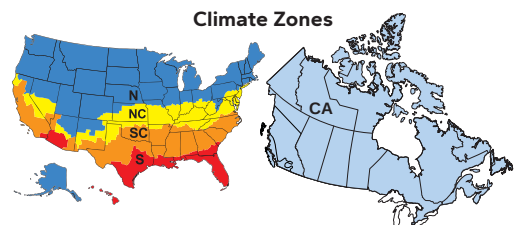
Glazing Performance - Total Unit

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
Dual-Pane Vent										N	NC	SC	S	CA	
11/16"	Advanced LowE IG	PEL-N-14-00677-00001	2.5	2.5	Argon	0.29	0.27	0.51	58						
	with grilles-between-the-glass	PEL-N-14-00678-00001				0.29	0.25	0.47	58						
	with Simulated Divided Light	PEL-N-14-00679-00001				0.29	0.25	0.47	58						
11/16"	Advanced LowE IG	PEL-N-14-00685-00001	3	3	Argon	0.28	0.27	0.51	58						
	with grilles-between-the-glass	PEL-N-14-00686-00001				0.28	0.25	0.46	58						
	with Simulated Divided Light	PEL-N-14-00687-00001				0.29	0.25	0.46	58						
11/16"	SunDefense™ Low-E IG	PEL-N-14-00777-00001	2.5	2.5	Argon	0.28	0.20	0.48	59			SC	S		
	with grilles-between-the-glass	PEL-N-14-00778-00001				0.28	0.19	0.43	59			SC	S		
	with Simulated Divided Light	PEL-N-14-00779-00001				0.29	0.19	0.43	59				S		
11/16"	SunDefense™ Low-E IG	PEL-N-14-00785-00001	3	3	Argon	0.28	0.20	0.47	58			SC	S		
	with grilles-between-the-glass	PEL-N-14-00786-00001				0.28	0.19	0.43	58			SC	S		
	with Simulated Divided Light	PEL-N-14-00787-00001				0.29	0.19	0.43	58				S		
11/16"	SunDefense+ Low-E IG	PEL-N-14-01089-00001	2.5	2.5	argon	0.25	0.20	0.47	47		NC	SC	S		
	with grilles-between-the-glass	PEL-N-14-01090-00001				0.25	0.18	0.42	47		NC	SC	S		
	with Simulated Divided Light	PEL-N-14-01091-00001				0.25	0.18	0.42	47		NC	SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-14-01097-00001	3	3	argon	0.25	0.20	0.46	46		NC	SC	S		
	with grilles-between-the-glass	PEL-N-14-01098-00001				0.25	0.18	0.42	46		NC	SC	S		
	with Simulated Divided Light	PEL-N-14-01099-00001				0.25	0.18	0.42	46		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-14-00737-00001	2.5	2.5	Argon	0.25	0.27	0.50	46		NC				
	with grilles-between-the-glass	PEL-N-14-00738-00001				0.25	0.25	0.46	46		NC				
	with Simulated Divided Light	PEL-N-14-00739-00001				0.25	0.25	0.46	46		NC				
11/16"	AdvancedComfort Low-E IG	PEL-N-14-00745-00001	3	3	Argon	0.25	0.27	0.50	45		NC				
	with grilles-between-the-glass	PEL-N-14-00746-00001				0.25	0.25	0.45	45		NC				
	with Simulated Divided Light	PEL-N-14-00747-00001				0.26	0.25	0.45	45						
11/16"	NaturalSun LowE IG	PEL-N-14-00637-00001	2.5	2.5	Argon	0.29	0.51	0.58	58						
	with grilles-between-the-glass	PEL-N-14-00638-00001				0.29	0.47	0.53	58						
	with Simulated Divided Light	PEL-N-14-00639-00001				0.30	0.47	0.53	58						
11/16"	NaturalSun LowE IG	PEL-N-14-00645-00001	3	3	Argon	0.29	0.50	0.58	57						
	with grilles-between-the-glass	PEL-N-14-00646-00001				0.29	0.46	0.52	57						
	with Simulated Divided Light	PEL-N-14-00647-00001				0.30	0.46	0.52	57						
11/16"	NaturalSun+ LowE IG	PEL-N-14-01065-00001	2.5	2.5	argon	0.25	0.47	0.57	44	N				36	CA
	with grilles-between-the-glass	PEL-N-14-01066-00001				0.25	0.43	0.52	45	N				34	CA
	with Simulated Divided Light	PEL-N-14-01067-00001				0.26	0.43	0.52	45	N					
11/16"	NaturalSun+ LowE IG	PEL-N-14-01073-00001	3	3	argon	0.26	0.46	0.56	45	N				34	CA
	with grilles-between-the-glass	PEL-N-14-01074-00001				0.26	0.42	0.51	45	N					
	with Simulated Divided Light	PEL-N-14-01075-00001				0.26	0.42	0.51	45	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 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.
Visit www.energystar.gov for Energy Star guidelines.





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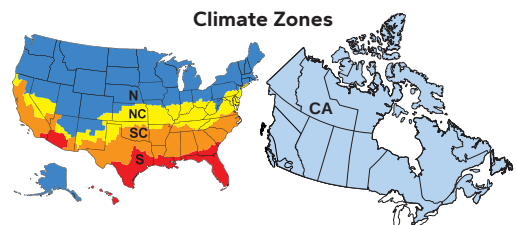
Glazing Performance - Total Unit

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	
Dual-Pane Vent – High Altitude Glazing										N	NC	SC	S	CA	
11/16"	Advanced LowE IG	PEL-N-14-00673-00001	2.5	2.5	Air	0.32	0.28	0.51	55						
	with grilles-between-the-glass	PEL-N-14-00674-00001				0.32	0.25	0.47	55						
	with Simulated Divided Light	PEL-N-14-00675-00001				0.32	0.25	0.47	55						
11/16"	Advanced LowE IG	PEL-N-14-00681-00001	3	3	Air	0.32	0.28	0.51	54						
	with grilles-between-the-glass	PEL-N-14-00682-00001				0.32	0.25	0.46	54						
	with Simulated Divided Light	PEL-N-14-00683-00001				0.33	0.25	0.46	54						
11/16"	SunDefense™ Low-E IG	PEL-N-14-00773-00001	2.5	2.5	Air	0.31	0.21	0.48	55				S		
	with grilles-between-the-glass	PEL-N-14-00774-00001				0.31	0.19	0.43	55				S		
	with Simulated Divided Light	PEL-N-14-00775-00001				0.32	0.19	0.43	55				S		
11/16"	SunDefense Low-E IG	PEL-N-14-00781-00001	3	3	Air	0.32	0.21	0.47	54				S		
	with grilles-between-the-glass	PEL-N-14-00782-00001				0.32	0.19	0.43	54				S		
	with Simulated Divided Light	PEL-N-14-00783-00001				0.32	0.19	0.43	54				S		
11/16"	SunDefense+ Low-E IG	PEL-N-14-01085-00001	2.5	2.5	Air	0.27	0.20	0.47	43			SC	S		
	with grilles-between-the-glass	PEL-N-14-01086-00001				0.27	0.19	0.42	43			SC	S		
	with Simulated Divided Light	PEL-N-14-01087-00001				0.27	0.19	0.42	43			SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-14-01093-00001	3	3	Air	0.27	0.20	0.46	41			SC	S		
	with grilles-between-the-glass	PEL-N-14-01094-00001				0.27	0.19	0.42	42			SC	S		
	with Simulated Divided Light	PEL-N-14-01095-00001				0.28	0.19	0.42	42			SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-14-00733-00001	2.5	2.5	Air	0.27	0.27	0.50	43						
	with grilles-between-the-glass	PEL-N-14-00734-00001				0.27	0.25	0.46	43						
	with Simulated Divided Light	PEL-N-14-00735-00001				0.28	0.25	0.46	43						
11/16"	AdvancedComfort Low-E IG	PEL-N-14-00741-00001	3	3	Air	0.27	0.27	0.50	42						
	with grilles-between-the-glass	PEL-N-14-00742-00001				0.27	0.25	0.45	42						
	with Simulated Divided Light	PEL-N-14-00743-00001				0.28	0.25	0.45	42						
11/16"	NaturalSun LowE IG	PEL-N-14-00633-00001	2.5	2.5	Air	0.33	0.51	0.58	54						
	with grilles-between-the-glass	PEL-N-14-00634-00001				0.33	0.47	0.53	54						
	with Simulated Divided Light	PEL-N-14-00635-00001				0.33	0.47	0.53	54						
11/16"	NaturalSun LowE IG	PEL-N-14-00641-00001	3	3	Air	0.33	0.50	0.58	54						
	with grilles-between-the-glass	PEL-N-14-00642-00001				0.33	0.46	0.52	54						
	with Simulated Divided Light	PEL-N-14-00643-00001				0.34	0.46	0.52	54						
11/16"	NaturalSun+ LowE IG	PEL-N-14-01061-00001	2.5	2.5	Air	0.28	0.47	0.57	41						
	with grilles-between-the-glass	PEL-N-14-01062-00001				0.28	0.43	0.52	41						
	with Simulated Divided Light	PEL-N-14-01063-00001				0.29	0.43	0.52	41						
11/16"	NaturalSun+ LowE IG	PEL-N-14-01069-00001	3	3	Air	0.28	0.46	0.56	40						
	with grilles-between-the-glass	PEL-N-14-01070-00001				0.28	0.42	0.51	41						
	with Simulated Divided Light	PEL-N-14-01071-00001				0.29	0.42	0.51	41						

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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Lifestyle Series Casement

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 ²					
			ENCt.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada ₂	
										Zone				ER	Zone
										Dual-Pane Fixed					
11/16"	Advanced LowE IG	PEL-N-229-00861-00001	2.5	2.5	argon	0.27	0.31	0.58	58						
	with grilles-between-the-glass	PEL-N-229-00862-00001				0.27	0.28	0.52	58						
	with Simulated Divided Light	PEL-N-229-00863-00001				0.28	0.28	0.52	58						
11/16"	Advanced LowE IG	PEL-N-229-00949-00001	3	3	argon	0.27	0.31	0.58	57						
	with grilles-between-the-glass	PEL-N-229-00950-00001				0.27	0.28	0.51	57						
	with Simulated Divided Light	PEL-N-229-00951-00001				0.28	0.28	0.51	57						
11/16"	Advanced LowE IG	PEL-N-229-00965-00001	4	4	argon	0.28	0.30	0.57	55						
	with grilles-between-the-glass	PEL-N-229-00966-00001				0.29	0.28	0.51	55						
	with Simulated Divided Light	PEL-N-229-00967-00001				0.29	0.28	0.51	55						
11/16"	SunDefense™ Low-E IG	PEL-N-229-01045-00001	2.5	2.5	argon	0.27	0.23	0.54	58			SC	S		
	with grilles-between-the-glass	PEL-N-229-01046-00001				0.27	0.21	0.48	58			SC	S		
	with Simulated Divided Light	PEL-N-229-01047-00001				0.28	0.21	0.48	58			SC	S		
11/16"	SunDefense Low-E IG	PEL-N-229-01053-00001	3	3	argon	0.27	0.23	0.53	57			SC	S		
	with grilles-between-the-glass	PEL-N-229-01054-00001				0.27	0.21	0.48	57			SC	S		
	with Simulated Divided Light	PEL-N-229-01055-00001				0.28	0.21	0.48	57			SC	S		
11/16"	SunDefense Low-E IG	PEL-N-229-01061-00001	4	4	argon	0.28	0.23	0.53	55			SC	S		
	with grilles-between-the-glass	PEL-N-229-01062-00001				0.29	0.21	0.47	55				S		
	with Simulated Divided Light	PEL-N-229-01063-00001				0.29	0.21	0.47	55				S		
11/16"	SunDefense+ Low-E IG	PEL-N-229-01493-00001	2.5	2.5	argon	0.23	0.22	0.53	46		NC	SC	S		
	with grilles-between-the-glass	PEL-N-229-01494-00001				0.23	0.20	0.47	46		NC	SC	S		
	with Simulated Divided Light	PEL-N-229-01495-00001				0.24	0.20	0.47	46		NC	SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-229-01501-00001	3	3	argon	0.23	0.22	0.52	45		NC	SC	S		
	with grilles-between-the-glass	PEL-N-229-01502-00001				0.23	0.20	0.47	45		NC	SC	S		
	with Simulated Divided Light	PEL-N-229-01503-00001				0.24	0.20	0.47	45		NC	SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-229-01509-00001	4	4	argon	0.24	0.22	0.52	43		NC	SC	S		
	with grilles-between-the-glass	PEL-N-229-01510-00001				0.25	0.20	0.46	43		NC	SC	S		
	with Simulated Divided Light	PEL-N-229-01511-00001				0.25	0.20	0.46	43		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-229-00997-00001	2.5	2.5	argon	0.23	0.30	0.57	46		NC				
	with grilles-between-the-glass	PEL-N-229-00998-00001				0.23	0.27	0.51	46		NC				
	with Simulated Divided Light	PEL-N-229-00999-00001				0.24	0.27	0.51	46		NC				
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01005-00001	3	3	argon	0.23	0.30	0.56	45		NC				
	with grilles-between-the-glass	PEL-N-229-01006-00001				0.23	0.27	0.50	45		NC				
	with Simulated Divided Light	PEL-N-229-01007-00001				0.24	0.27	0.50	45		NC				
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01013-00001	4	4	argon	0.24	0.30	0.55	43		NC				
	with grilles-between-the-glass	PEL-N-229-01014-00001				0.25	0.27	0.50	43		NC				
	with Simulated Divided Light	PEL-N-229-01015-00001				0.25	0.27	0.50	43		NC				
11/16"	NaturalSun LowE IG	PEL-N-229-00901-00001	2.5	2.5	argon	0.28	0.58	0.66	57					38	CA
	with grilles-between-the-glass	PEL-N-229-00902-00001				0.28	0.52	0.59	57					35	CA
	with Simulated Divided Light	PEL-N-229-00903-00001				0.29	0.52	0.59	57					34	CA
11/16"	NaturalSun LowE IG	PEL-N-229-00909-00001	3	3	argon	0.28	0.57	0.65	56					38	CA
	with grilles-between-the-glass	PEL-N-229-00910-00001				0.28	0.51	0.58	56					34	CA
	with Simulated Divided Light	PEL-N-229-00911-00001				0.29	0.51	0.58	56						
11/16"	NaturalSun LowE IG	PEL-N-229-00917-00001	4	4	argon	0.29	0.55	0.65	55					35	CA
	with grilles-between-the-glass	PEL-N-229-00918-00001				0.30	0.50	0.58	55						
	with Simulated Divided Light	PEL-N-229-00919-00001				0.30	0.50	0.58	55						
11/16"	NaturalSun+ LowE IG	PEL-N-229-01445-00001	2.5	2.5	argon	0.24	0.53	0.64	45	N				41	CA
	with grilles-between-the-glass	PEL-N-229-01446-00001				0.24	0.47	0.58	45	N				37	CA
	with Simulated Divided Light	PEL-N-229-01447-00001				0.25	0.47	0.58	45	N				36	CA
11/16"	NaturalSun+ LowE IG	PEL-N-229-01453-00001	3	3	argon	0.24	0.52	0.64	44	N				40	CA
	with grilles-between-the-glass	PEL-N-229-01454-00001				0.24	0.46	0.57	44	N				37	CA
	with Simulated Divided Light	PEL-N-229-01455-00001				0.25	0.46	0.57	44	N				35	CA
11/16"	NaturalSun+ LowE IG	PEL-N-229-01461-00001	4	4	argon	0.25	0.50	0.63	42	N				38	CA
	with grilles-between-the-glass	PEL-N-229-01462-00001				0.26	0.45	0.56	42	N					
	with Simulated Divided Light	PEL-N-229-01463-00001				0.26	0.45	0.56	42	N					

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



Lifestyle Series Casement

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
Dual-Pane Fixed – High Altitude Glazing										N	NC	SC	S	CA	
11/16"	Advanced LowE IG	PEL-N-229-00857-00001	2.5	2.5	air	0.31	0.31	0.58	54						
	with grilles-between-the-glass	PEL-N-229-00858-00001				0.31	0.28	0.52	54						
	with Simulated Divided Light	PEL-N-229-00859-00001				0.32	0.28	0.52	54						
11/16"	Advanced LowE IG	PEL-N-229-00945-00001	3	3	air	0.31	0.31	0.58	53						
	with grilles-between-the-glass	PEL-N-229-00946-00001				0.31	0.28	0.51	53						
	with Simulated Divided Light	PEL-N-229-00947-00001				0.32	0.28	0.51	53						
11/16"	Advanced LowE IG	PEL-N-229-00961-00001	4	4	air	0.33	0.31	0.57	51						
	with grilles-between-the-glass	PEL-N-229-00962-00001				0.34	0.28	0.51	51						
	with Simulated Divided Light	PEL-N-229-00963-00001				0.34	0.28	0.51	51						
11/16"	SunDefense™ Low-E IG	PEL-N-229-01041-00001	2.5	2.5	air	0.31	0.23	0.54	55				S		
	with grilles-between-the-glass	PEL-N-229-01042-00001				0.31	0.21	0.48	55				S		
	with Simulated Divided Light	PEL-N-229-01043-00001				0.28	0.21	0.48	53			SC	S		
11/16"	SunDefense Low-E IG	PEL-N-229-01049-00001	3	3	air	0.31	0.23	0.53	54				S		
	with grilles-between-the-glass	PEL-N-229-01050-00001				0.31	0.21	0.48	54				S		
	with Simulated Divided Light	PEL-N-229-01051-00001				0.32	0.21	0.48	54				S		
11/16"	SunDefense Low-E IG	PEL-N-229-01057-00001	4	4	air	0.32	0.23	0.53	52				S		
	with grilles-between-the-glass	PEL-N-229-01058-00001				0.34	0.21	0.47	52						
	with Simulated Divided Light	PEL-N-229-01059-00001				0.34	0.21	0.47	52						
11/16"	SunDefense+ Low-E IG	PEL-N-229-01489-00001	2.5	2.5	air	0.25	0.23	0.53	42		NC	SC	S		
	with grilles-between-the-glass	PEL-N-229-01490-00001				0.25	0.21	0.47	42		NC	SC	S		
	with Simulated Divided Light	PEL-N-229-01491-00001				0.26	0.21	0.47	42			SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-229-01497-00001	3	3	air	0.26	0.23	0.52	41			SC	S		
	with grilles-between-the-glass	PEL-N-229-01498-00001				0.26	0.21	0.47	41			SC	S		
	with Simulated Divided Light	PEL-N-229-01499-00001				0.27	0.21	0.47	41			SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-229-01505-00001	4	4	air	0.27	0.23	0.52	39			SC	S		
	with grilles-between-the-glass	PEL-N-229-01506-00001				0.28	0.21	0.46	39			SC	S		
	with Simulated Divided Light	PEL-N-229-01507-00001				0.28	0.21	0.46	39			SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-229-00993-00001	2.5	2.5	air	0.26	0.30	0.57	42						
	with grilles-between-the-glass	PEL-N-229-00994-00001				0.26	0.27	0.51	42						
	with Simulated Divided Light	PEL-N-229-00995-00001				0.26	0.27	0.51	42						
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01001-00001	3	3	air	0.26	0.30	0.56	41						
	with grilles-between-the-glass	PEL-N-229-01002-00001				0.26	0.27	0.50	41						
	with Simulated Divided Light	PEL-N-229-01003-00001				0.27	0.27	0.50	41						
11/16"	AdvancedComfort Low-E IG	PEL-N-229-01009-00001	4	4	air	0.27	0.30	0.55	39						
	with grilles-between-the-glass	PEL-N-229-01010-00001				0.28	0.27	0.50	39						
	with Simulated Divided Light	PEL-N-229-01011-00001				0.28	0.27	0.50	39						
11/16"	NaturalSun LowE IG	PEL-N-229-00897-00001	2.5	2.5	air	0.32	0.57	0.66	54						
	with grilles-between-the-glass	PEL-N-229-00898-00001				0.32	0.52	0.59	54						
	with Simulated Divided Light	PEL-N-229-00899-00001				0.33	0.52	0.59	54						
11/16"	NaturalSun LowE IG	PEL-N-229-00905-00001	3	3	air	0.32	0.56	0.65	53						
	with grilles-between-the-glass	PEL-N-229-00906-00001				0.32	0.51	0.58	53						
	with Simulated Divided Light	PEL-N-229-00907-00001				0.33	0.51	0.58	53						
11/16"	NaturalSun LowE IG	PEL-N-229-00913-00001	4	4	air	0.34	0.55	0.65	51						
	with grilles-between-the-glass	PEL-N-229-00914-00001				0.35	0.49	0.58	51						
	with Simulated Divided Light	PEL-N-229-00915-00001				0.35	0.49	0.58	51						
11/16"	NaturalSun+ LowE IG	PEL-N-229-01441-00001	2.5	2.5	air	0.26	0.52	0.64	41	N				37	CA
	with grilles-between-the-glass	PEL-N-229-01442-00001				0.26	0.47	0.58	41	N				35	CA
	with Simulated Divided Light	PEL-N-229-01443-00001				0.27	0.47	0.58	41						
11/16"	NaturalSun+ LowE IG	PEL-N-229-01449-00001	3	3	air	0.27	0.51	0.64	40					36	CA
	with grilles-between-the-glass	PEL-N-229-01450-00001				0.27	0.46	0.57	40						
	with Simulated Divided Light	PEL-N-229-01451-00001				0.28	0.46	0.57	40						
11/16"	NaturalSun+ LowE IG	PEL-N-229-01457-00001	4	4	air	0.28	0.50	0.63	38					34	CA
	with grilles-between-the-glass	PEL-N-229-01458-00001				0.29	0.45	0.56	38						
	with Simulated Divided Light	PEL-N-229-01459-00001				0.29	0.45	0.56	38						

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



Lifestyle Series Casement

Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	PENDING NFRC Certified Product #	Glass (mm)			Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown ²							
			Ext.	Mid	Int.		U-Factor ₁	SHGC	VLT	CR	U. S.				Canada ₂			
											Zone				ER	Zone		
Triple-Pane Vent with Clear HGP											N	NC	SC	S	CA			
11/16"	Advanced Low-E IG	PEL-N-245-00361-00001	2.5	2.5	2.5	argon	0.24	0.27	0.50	69		NC						
11/16"	Advanced Low-E IG w/ GBG	PEL-N-245-00362-00001	2.5	2.5	2.5	argon	0.24	0.24	0.44	69		NC						
11/16"	Advanced Low-E IG w/ SDL	PEL-N-245-00362-00002	2.5	2.5	2.5	argon	0.24	0.24	0.44	69		NC						
11/16"	Advanced Low-E IG	PEL-N-245-00363-00001	3	3	3	argon	0.24	0.27	0.49	69		NC						
11/16"	Advanced Low-E IG w/ GBG	PEL-N-245-00364-00001	3	3	3	argon	0.24	0.24	0.44	69		NC						
11/16"	Advanced Low-E IG w/ SDL	PEL-N-245-00364-00002	3	3	3	argon	0.24	0.24	0.44	69		NC						
11/16"	Advanced Low-E IG	PEL-N-245-00441-00001	5	3	4	argon	0.25	0.26	0.48	67		NC						
11/16"	Advanced Low-E IG w/ GBG	PEL-N-245-00442-00001	5	3	4	argon	0.25	0.24	0.43	67		NC						
11/16"	Advanced Low-E IG w/ SDL	PEL-N-245-00442-00002	5	3	4	argon	0.25	0.24	0.43	67		NC						
11/16"	AdvancedComfort Low-E IG	PEL-N-245-00269-00001	2.5	2.5	2.5	argon	0.20	0.26	0.49	74	N	NC			30	CA		
11/16"	AdvancedComfort Low-E IG w/ GBG	PEL-N-245-00270-00001	2.5	2.5	2.5	argon	0.20	0.24	0.43	74	N	NC			29	CA		
11/16"	AdvancedComfort Low-E IG w/ SDL	PEL-N-245-00270-00002	2.5	2.5	2.5	argon	0.20	0.24	0.43	74	N	NC			29	CA		
11/16"	AdvancedComfort Low-E IG	PEL-N-245-00271-00001	3	3	3	argon	0.20	0.26	0.48	74	N	NC			30	CA		
11/16"	AdvancedComfort Low-E IG w/ GBG	PEL-N-245-00272-00001	3	3	3	argon	0.20	0.23	0.43	74	N	NC	SC	S	28	CA		
11/16"	AdvancedComfort Low-E IG w/ SDL	PEL-N-245-00272-00002	3	3	3	argon	0.20	0.23	0.43	74	N	NC	SC	S	28	CA		
11/16"	AdvancedComfort Low-E IG	PEL-N-245-00333-00001	5	3	4	argon	0.20	0.25	0.47	74	N	NC			29	CA		
11/16"	AdvancedComfort Low-E IG w/ GBG	PEL-N-245-00334-00001	5	3	4	argon	0.21	0.23	0.42	74	N	NC	SC	S	27	CA		
11/16"	AdvancedComfort Low-E IG w/ SDL	PEL-N-245-00334-00002	5	3	4	argon	0.21	0.23	0.42	74	N	NC	SC	S	27	CA		
11/16"	SunDefense™ Low-E IG	PEL-N-245-00385-00001	2.5	2.5	2.5	argon	0.23	0.20	0.46	69		NC	SC	S				
11/16"	SunDefense™ Low-E IG w/ GBG	PEL-N-245-00386-00001	2.5	2.5	2.5	argon	0.23	0.18	0.41	69		NC	SC	S				
11/16"	SunDefense™ Low-E IG w/ SDL	PEL-N-245-00386-00002	2.5	2.5	2.5	argon	0.23	0.18	0.41	69		NC	SC	S				
11/16"	SunDefense™ Low-E IG	PEL-N-245-00387-00001	3	3	3	argon	0.24	0.20	0.45	69		NC	SC	S				
11/16"	SunDefense™ Low-E IG w/ GBG	PEL-N-245-00388-00001	3	3	3	argon	0.24	0.18	0.41	69		NC	SC	S				
11/16"	SunDefense™ Low-E IG w/ SDL	PEL-N-245-00388-00002	3	3	3	argon	0.24	0.18	0.41	69		NC	SC	S				
11/16"	SunDefense™ Low-E IG	PEL-N-245-00457-00001	5	3	4	argon	0.24	0.20	0.45	67		NC	SC	S				
11/16"	SunDefense™ Low-E IG w/ GBG	PEL-N-245-00458-00001	5	3	4	argon	0.25	0.18	0.40	67		NC	SC	S				
11/16"	SunDefense™ Low-E IG w/ SDL	PEL-N-245-00458-00002	5	3	4	argon	0.25	0.18	0.40	67		NC	SC	S				
11/16"	SunDefense+ Low-E IG	PEL-N-245-00281-00001	2.5	2.5	2.5	argon	0.19	0.19	0.45	74	N	NC	SC	S	27	CA		
11/16"	SunDefense+ Low-E IG w/ GBG	PEL-N-245-00282-00001	2.5	2.5	2.5	argon	0.19	0.18	0.40	74	N	NC	SC	S	26	CA		
11/16"	SunDefense+ Low-E IG w/ SDL	PEL-N-245-00282-00002	2.5	2.5	2.5	argon	0.19	0.18	0.40	74	N	NC	SC	S	26	CA		
11/16"	SunDefense+ Low-E IG	PEL-N-245-00283-00001	3	3	3	argon	0.20	0.19	0.44	74	N	NC	SC	S	26	CA		
11/16"	SunDefense+ Low-E IG w/ GBG	PEL-N-245-00284-00001	3	3	3	argon	0.20	0.18	0.40	74	N	NC	SC	S	25	CA		
11/16"	SunDefense+ Low-E IG w/ SDL	PEL-N-245-00284-00002	3	3	3	argon	0.20	0.18	0.40	74	N	NC	SC	S	25	CA		
11/16"	SunDefense+ Low-E IG	PEL-N-245-00341-00001	5	3	4	argon	0.20	0.19	0.44	74	N	NC	SC	S	26	CA		
11/16"	SunDefense+ Low-E IG w/ GBG	PEL-N-245-00342-00001	5	3	4	argon	0.21	0.18	0.39	74	N	NC	SC	S	24	CA		
11/16"	SunDefense+ Low-E IG w/ SDL	PEL-N-245-00342-00002	5	3	4	argon	0.21	0.18	0.39	74	N	NC	SC	S	24	CA		
11/16"	NaturalSun Low-E IG	PEL-N-245-00349-00001	2.5	2.5	2.5	argon	0.24	0.50	0.56	68	N				39	CA		
11/16"	NaturalSun Low-E IG w/ GBG	PEL-N-245-00350-00001	2.5	2.5	2.5	argon	0.24	0.45	0.50	68	N				36	CA		
11/16"	NaturalSun Low-E IG w/ SDL	PEL-N-245-00350-00002	2.5	2.5	2.5	argon	0.24	0.45	0.50	68	N				36	CA		
11/16"	NaturalSun Low-E IG	PEL-N-245-00351-00001	3	3	3	argon	0.24	0.49	0.56	68	N				38	CA		
11/16"	NaturalSun Low-E IG w/ GBG	PEL-N-245-00352-00001	3	3	3	argon	0.24	0.44	0.50	68	N				35	CA		
11/16"	NaturalSun Low-E IG w/ SDL	PEL-N-245-00352-00002	3	3	3	argon	0.24	0.44	0.50	68	N				35	CA		
11/16"	NaturalSun Low-E IG	PEL-N-245-00433-00001	5	3	4	argon	0.25	0.47	0.55	66	N				36	CA		
11/16"	NaturalSun Low-E IG w/ GBG	PEL-N-245-00434-00001	5	3	4	argon	0.26	0.42	0.49	66	N							
11/16"	NaturalSun Low-E IG w/ SDL	PEL-N-245-00434-00002	5	3	4	argon	0.26	0.42	0.49	66	N							
11/16"	NaturalSun+ Low-E IG	PEL-N-245-00257-00001	2.5	2.5	2.5	argon	0.20	0.45	0.55	74	N				41	CA		
11/16"	NaturalSun+ Low-E IG w/ GBG	PEL-N-245-00258-00001	2.5	2.5	2.5	argon	0.20	0.41	0.49	74	N				38	CA		
11/16"	NaturalSun+ Low-E IG w/ SDL	PEL-N-245-00258-00002	2.5	2.5	2.5	argon	0.20	0.41	0.49	74	N				38	CA		
11/16"	NaturalSun+ Low-E IG	PEL-N-245-00259-00001	3	3	3	argon	0.20	0.44	0.54	74	N				40	CA		
11/16"	NaturalSun+ Low-E IG w/ GBG	PEL-N-245-00260-00001	3	3	3	argon	0.20	0.40	0.48	74	N	NC			38	CA		
11/16"	NaturalSun+ Low-E IG w/ SDL	PEL-N-245-00260-00002	3	3	3	argon	0.20	0.40	0.48	74	N	NC			38	CA		
11/16"	NaturalSun+ Low-E IG	PEL-N-245-00325-00001	5	3	4	argon	0.21	0.42	0.54	74	N				38	CA		
11/16"	NaturalSun+ Low-E IG w/ GBG	PEL-N-245-00326-00001	5	3	4	argon	0.21	0.38	0.48	74	N	NC			35	CA		
11/16"	NaturalSun+ Low-E IG w/ SDL	PEL-N-245-00326-00002	5	3	4	argon	0.21	0.38	0.48	74	N	NC			35	CA		

(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.
Visit www.energystar.gov for Energy Star guidelines.

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



Lifestyle Series Casement

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 ²					
			Ext.	Mid	Int.		U-Factor ₁	SHGC	VLT	CR	U. S.				Canada ₂	
											Zone				ER	Zone
Triple-Pane Vent with High Altitude Glazing and Clear HGP											N	NC	SC	S	CA	
11/16"	Advanced Low-E HA IG	PEL-N-245-00367-00001	2.5	2.5	2.5	air	0.25	0.27	0.50	67		NC				
11/16"	Advanced Low-E HA IG w/ GBG	PEL-N-245-00368-00001	2.5	2.5	2.5	air	0.25	0.24	0.44	67		NC				
11/16"	Advanced Low-E HA IG w/ SDL	PEL-N-245-00368-00002	2.5	2.5	2.5	air	0.25	0.24	0.44	67		NC				
11/16"	Advanced Low-E HA IG	PEL-N-245-00369-00001	3	3	3	air	0.26	0.27	0.49	66						
11/16"	Advanced Low-E HA IG w/ GBG	PEL-N-245-00370-00001	3	3	3	air	0.26	0.24	0.44	66						
11/16"	Advanced Low-E HA IG w/ SDL	PEL-N-245-00370-00002	3	3	3	air	0.26	0.24	0.44	66						
11/16"	Advanced Low-E HA IG	PEL-N-245-00445-00001	5	3	4	air	0.27	0.26	0.48	65						
11/16"	Advanced Low-E HA IG w/ GBG	PEL-N-245-00446-00001	5	3	4	air	0.27	0.24	0.43	65						
11/16"	Advanced Low-E HA IG w/ SDL	PEL-N-245-00446-00002	5	3	4	air	0.27	0.24	0.43	65						
11/16"	AdvancedComfort Low-E HA IG	PEL-N-245-00275-00001	2.5	2.5	2.5	air	0.21	0.26	0.49	74	N	NC			29	CA
11/16"	AdvancedComfort Low-E HA IG w/ GBG	PEL-N-245-00276-00001	2.5	2.5	2.5	air	0.21	0.24	0.43	74	N	NC			27	CA
11/16"	AdvancedComfort Low-E HA IG w/ SDL	PEL-N-245-00276-00002	2.5	2.5	2.5	air	0.21	0.24	0.43	74	N	NC			27	CA
11/16"	AdvancedComfort Low-E HA IG	PEL-N-245-00277-00001	3	3	3	air	0.21	0.26	0.48	74	N	NC			29	CA
11/16"	AdvancedComfort Low-E HA IG w/ GBG	PEL-N-245-00278-00001	3	3	3	air	0.21	0.23	0.43	74	N	NC	SC	S	27	CA
11/16"	AdvancedComfort Low-E HA IG w/ SDL	PEL-N-245-00278-00002	3	3	3	air	0.21	0.23	0.43	74	N	NC	SC	S	27	CA
11/16"	AdvancedComfort Low-E HA IG	PEL-N-245-00337-00001	5	3	4	air	0.22	0.25	0.47	72	N	NC				
11/16"	AdvancedComfort Low-E HA IG w/ GBG	PEL-N-245-00338-00001	5	3	4	air	0.22	0.23	0.42	72	N	NC	SC	S		
11/16"	AdvancedComfort Low-E HA IG w/ SDL	PEL-N-245-00338-00002	5	3	4	air	0.22	0.23	0.42	72	N	NC	SC	S		
11/16"	SunDefense™ Low-E HA IG	PEL-N-245-00391-00001	2.5	2.5	2.5	air	0.25	0.20	0.46	67		NC	SC	S		
11/16"	SunDefense™ Low-E HA IG w/ GBG	PEL-N-245-00392-00001	2.5	2.5	2.5	air	0.25	0.18	0.41	67		NC	SC	S		
11/16"	SunDefense™ Low-E HA IG w/ SDL	PEL-N-245-00392-00002	2.5	2.5	2.5	air	0.25	0.18	0.41	67		NC	SC	S		
11/16"	SunDefense™ Low-E HA IG	PEL-N-245-00393-00001	3	3	3	air	0.26	0.20	0.45	66			SC	S		
11/16"	SunDefense™ Low-E HA IG w/ GBG	PEL-N-245-00394-00001	3	3	3	air	0.26	0.18	0.41	66			SC	S		
11/16"	SunDefense™ Low-E HA IG w/ SDL	PEL-N-245-00394-00002	3	3	3	air	0.26	0.18	0.41	66			SC	S		
11/16"	SunDefense™ Low-E HA IG	PEL-N-245-00461-00001	5	3	4	air	0.27	0.20	0.45	65			SC	S		
11/16"	SunDefense™ Low-E HA IG w/ GBG	PEL-N-245-00462-00001	5	3	4	air	0.27	0.18	0.40	65			SC	S		
11/16"	SunDefense™ Low-E HA IG w/ SDL	PEL-N-245-00462-00002	5	3	4	air	0.27	0.18	0.40	65			SC	S		
11/16"	SunDefense+ Low-E HA IG	PEL-N-245-00287-00001	2.5	2.5	2.5	air	0.21	0.19	0.45	74	N	NC	SC	S	25	CA
11/16"	SunDefense+ Low-E HA IG w/ GBG	PEL-N-245-00288-00001	2.5	2.5	2.5	air	0.21	0.18	0.40	74	N	NC	SC	S	24	CA
11/16"	SunDefense+ Low-E HA IG w/ SDL	PEL-N-245-00288-00002	2.5	2.5	2.5	air	0.21	0.18	0.40	74	N	NC	SC	S	24	CA
11/16"	SunDefense+ Low-E HA IG	PEL-N-245-00289-00001	3	3	3	air	0.21	0.19	0.44	74	N	NC	SC	S	25	CA
11/16"	SunDefense+ Low-E HA IG w/ GBG	PEL-N-245-00290-00001	3	3	3	air	0.21	0.18	0.40	74	N	NC	SC	S	24	CA
11/16"	SunDefense+ Low-E HA IG w/ SDL	PEL-N-245-00290-00002	3	3	3	air	0.21	0.18	0.40	74	N	NC	SC	S	24	CA
11/16"	SunDefense+ Low-E HA IG	PEL-N-245-00345-00001	5	3	4	air	0.22	0.19	0.44	73	N	NC	SC	S		
11/16"	SunDefense+ Low-E HA IG w/ GBG	PEL-N-245-00346-00001	5	3	4	air	0.22	0.18	0.39	73	N	NC	SC	S		
11/16"	SunDefense+ Low-E HA IG w/ SDL	PEL-N-245-00346-00002	5	3	4	air	0.22	0.18	0.39	73	N	NC	SC	S		
11/16"	NaturalSun Low-E HA IG	PEL-N-245-00355-00001	2.5	2.5	2.5	air	0.26	0.49	0.56	66	N				35	CA
11/16"	NaturalSun Low-E HA IG w/ GBG	PEL-N-245-00356-00001	2.5	2.5	2.5	air	0.26	0.44	0.50	66	N					
11/16"	NaturalSun Low-E HA IG w/ SDL	PEL-N-245-00356-00002	2.5	2.5	2.5	air	0.26	0.44	0.50	66	N					
11/16"	NaturalSun Low-E HA IG	PEL-N-245-00357-00001	3	3	3	air	0.26	0.48	0.56	66	N				35	CA
11/16"	NaturalSun Low-E HA IG w/ GBG	PEL-N-245-00358-00001	3	3	3	air	0.26	0.43	0.50	66	N					
11/16"	NaturalSun Low-E HA IG w/ SDL	PEL-N-245-00358-00002	3	3	3	air	0.26	0.43	0.50	66	N					
11/16"	NaturalSun Low-E HA IG	PEL-N-245-00437-00001	5	3	4	air	0.27	0.47	0.55	64						
11/16"	NaturalSun Low-E HA IG w/ GBG	PEL-N-245-00438-00001	5	3	4	air	0.28	0.42	0.49	64						
11/16"	NaturalSun Low-E HA IG w/ SDL	PEL-N-245-00438-00002	5	3	4	air	0.28	0.42	0.49	64						
11/16"	NaturalSun+ Low-E HA IG	PEL-N-245-00263-00001	2.5	2.5	2.5	air	0.21	0.45	0.55	74	N				40	CA
11/16"	NaturalSun+ Low-E HA IG w/ GBG	PEL-N-245-00264-00001	2.5	2.5	2.5	air	0.21	0.40	0.49	74	N	NC			37	CA
11/16"	NaturalSun+ Low-E HA IG w/ SDL	PEL-N-245-00264-00002	2.5	2.5	2.5	air	0.21	0.40	0.49	74	N	NC			37	CA
11/16"	NaturalSun+ Low-E HA IG	PEL-N-245-00265-00001	3	3	3	air	0.22	0.44	0.54	73	N				38	CA
11/16"	NaturalSun+ Low-E HA IG w/ GBG	PEL-N-245-00266-00001	3	3	3	air	0.22	0.39	0.48	73	N	NC			35	CA
11/16"	NaturalSun+ Low-E HA IG w/ SDL	PEL-N-245-00266-00002	3	3	3	air	0.22	0.39	0.48	73	N	NC			35	CA
11/16"	NaturalSun+ Low-E HA IG	PEL-N-245-00329-00001	5	3	4	air	0.22	0.42	0.54	72	N				36	CA
11/16"	NaturalSun+ Low-E HA IG w/ GBG	PEL-N-245-00330-00001	5	3	4	air	0.23	0.38	0.48	72	N	NC				
11/16"	NaturalSun+ Low-E HA IG w/ SDL	PEL-N-245-00330-00002	5	3	4	air	0.23	0.38	0.48	72	N	NC				

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Lifestyle Series Casement

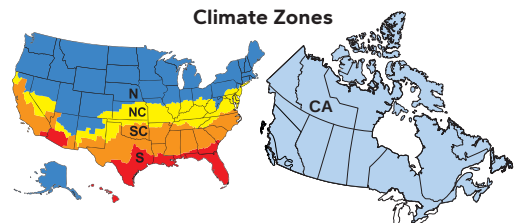
Glazing Performance - Total Unit

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 ₁	SHGC	VLT	CR	U. S.				Canada ₂	
											Zone				ER	Zone
Triple-Pane Fixed with Clear HGP											N	NC	SC	S	CA	
11/16"	Advanced Low-E IG	PEL-N-244-00361-00001	2.5	2.5	2.5	argon	0.22	0.27	0.50	69	N	NC				
11/16"	Advanced Low-E IG w/ GBG	PEL-N-244-00362-00001	2.5	2.5	2.5	argon	0.22	0.24	0.44	69	N	NC				
11/16"	Advanced Low-E IG w/ SDL	PEL-N-244-00362-00002	2.5	2.5	2.5	argon	0.22	0.24	0.44	69	N	NC				
11/16"	Advanced Low-E IG	PEL-N-244-00363-00001	3	3	3	argon	0.22	0.27	0.49	69	N	NC				
11/16"	Advanced Low-E IG w/ GBG	PEL-N-244-00364-00001	3	3	3	argon	0.22	0.24	0.44	69	N	NC				
11/16"	Advanced Low-E IG w/ SDL	PEL-N-244-00364-00002	3	3	3	argon	0.22	0.24	0.44	69	N	NC				
11/16"	Advanced Low-E IG	PEL-N-244-00365-00001	4	4	4	argon	0.23	0.26	0.48	67		NC				
11/16"	Advanced Low-E IG w/ GBG	PEL-N-244-00366-00001	4	4	4	argon	0.24	0.24	0.43	67		NC				
11/16"	Advanced Low-E IG w/ SDL	PEL-N-244-00366-00002	4	4	4	argon	0.24	0.24	0.43	67		NC				
11/16"	Advanced Low-E IG	PEL-N-244-00441-00001	5	3	4	argon	0.23	0.26	0.48	68		NC				
11/16"	Advanced Low-E IG w/ GBG	PEL-N-244-00442-00001	5	3	4	argon	0.24	0.24	0.43	68		NC				
11/16"	Advanced Low-E IG w/ SDL	PEL-N-244-00442-00002	5	3	4	argon	0.24	0.24	0.43	68		NC				
11/16"	AdvancedComfort Low-E IG	PEL-N-244-00269-00001	2.5	2.5	2.5	argon	0.18	0.26	0.49	74	N	NC			32	CA
11/16"	AdvancedComfort Low-E IG w/ GBG	PEL-N-244-00270-00001	2.5	2.5	2.5	argon	0.18	0.24	0.43	74	N	NC			31	CA
11/16"	AdvancedComfort Low-E IG w/ SDL	PEL-N-244-00270-00002	2.5	2.5	2.5	argon	0.18	0.24	0.43	74	N	NC			31	CA
11/16"	AdvancedComfort Low-E IG	PEL-N-244-00271-00001	3	3	3	argon	0.18	0.26	0.48	74	N	NC			32	CA
11/16"	AdvancedComfort Low-E IG w/ GBG	PEL-N-244-00272-00001	3	3	3	argon	0.18	0.23	0.43	74	N	NC	SC	S	31	CA
11/16"	AdvancedComfort Low-E IG w/ SDL	PEL-N-244-00272-00002	3	3	3	argon	0.18	0.23	0.43	74	N	NC	SC	S	31	CA
11/16"	AdvancedComfort Low-E IG	PEL-N-244-00273-00001	4	4	4	argon	0.19	0.25	0.47	74	N	NC			31	CA
11/16"	AdvancedComfort Low-E IG w/ GBG	PEL-N-244-00274-00001	4	4	4	argon	0.19	0.23	0.42	74	N	NC	SC	S	29	CA
11/16"	AdvancedComfort Low-E IG w/ SDL	PEL-N-244-00274-00002	4	4	4	argon	0.19	0.23	0.42	74	N	NC	SC	S	29	CA
11/16"	AdvancedComfort Low-E IG	PEL-N-244-00333-00001	5	3	4	argon	0.19	0.25	0.47	74	N	NC			31	CA
11/16"	AdvancedComfort Low-E IG w/ GBG	PEL-N-244-00334-00001	5	3	4	argon	0.19	0.23	0.42	75	N	NC	SC	S	29	CA
11/16"	AdvancedComfort Low-E IG w/ SDL	PEL-N-244-00334-00002	5	3	4	argon	0.19	0.23	0.42	75	N	NC	SC	S	29	CA
11/16"	SunDefense™ Low-E IG	PEL-N-244-00385-00001	2.5	2.5	2.5	argon	0.22	0.20	0.46	70	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ GBG	PEL-N-244-00386-00001	2.5	2.5	2.5	argon	0.22	0.18	0.41	70	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ SDL	PEL-N-244-00386-00002	2.5	2.5	2.5	argon	0.22	0.18	0.41	70	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-244-00387-00001	3	3	3	argon	0.22	0.20	0.45	69	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ GBG	PEL-N-244-00388-00001	3	3	3	argon	0.22	0.18	0.41	69	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ SDL	PEL-N-244-00388-00002	3	3	3	argon	0.22	0.18	0.41	69	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-244-00389-00001	4	4	4	argon	0.23	0.20	0.45	68		NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ GBG	PEL-N-244-00390-00001	4	4	4	argon	0.23	0.18	0.40	68		NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ SDL	PEL-N-244-00390-00002	4	4	4	argon	0.23	0.18	0.40	68		NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-244-00457-00001	5	3	4	argon	0.22	0.20	0.45	68	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ GBG	PEL-N-244-00458-00001	5	3	4	argon	0.23	0.18	0.40	68		NC	SC	S		
11/16"	SunDefense™ Low-E IG w/ SDL	PEL-N-244-00458-00002	5	3	4	argon	0.23	0.18	0.40	68		NC	SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-244-00281-00001	2.5	2.5	2.5	argon	0.18	0.19	0.45	74	N	NC	SC	S	28	CA
11/16"	SunDefense+ Low-E IG w/ GBG	PEL-N-244-00282-00001	2.5	2.5	2.5	argon	0.18	0.18	0.40	74	N	NC	SC	S	28	CA
11/16"	SunDefense+ Low-E IG w/ SDL	PEL-N-244-00282-00002	2.5	2.5	2.5	argon	0.18	0.18	0.40	74	N	NC	SC	S	28	CA
11/16"	SunDefense+ Low-E IG	PEL-N-244-00283-00001	3	3	3	argon	0.18	0.19	0.44	74	N	NC	SC	S	28	CA
11/16"	SunDefense+ Low-E IG w/ GBG	PEL-N-244-00284-00001	3	3	3	argon	0.18	0.18	0.40	74	N	NC	SC	S	28	CA
11/16"	SunDefense+ Low-E IG w/ SDL	PEL-N-244-00284-00002	3	3	3	argon	0.18	0.18	0.40	74	N	NC	SC	S	28	CA
11/16"	SunDefense+ Low-E IG	PEL-N-244-00285-00001	4	4	4	argon	0.19	0.19	0.44	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E IG w/ GBG	PEL-N-244-00286-00001	4	4	4	argon	0.19	0.18	0.39	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E IG w/ SDL	PEL-N-244-00286-00002	4	4	4	argon	0.19	0.18	0.39	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E IG	PEL-N-244-00341-00001	5	3	4	argon	0.19	0.19	0.44	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E IG w/ GBG	PEL-N-244-00342-00001	5	3	4	argon	0.19	0.18	0.39	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E IG w/ SDL	PEL-N-244-00342-00002	5	3	4	argon	0.19	0.18	0.39	74	N	NC	SC	S	27	CA

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SHGC = Solar Heat Gain Coefficient
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Lifestyle Series Casement

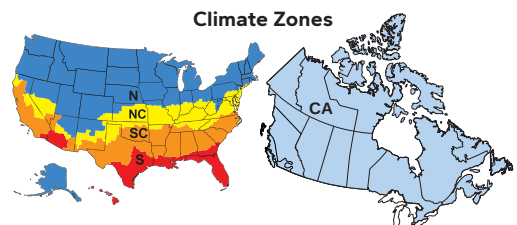
Glazing Performance - Total Unit

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 ₁	SHGC	VLT	CR	U. S.				Canada ₂	
											Zone				ER	Zone
Triple-Pane Fixed with Clear HGP											N	NC	SC	S	CA	
11/16"	NaturalSun Low-E IG	PEL-N-244-00349-00001	2.5	2.5	2.5	argon	0.23	0.50	0.56	69	N				40	CA
11/16"	NaturalSun Low-E IG w/ GBG	PEL-N-244-00350-00001	2.5	2.5	2.5	argon	0.23	0.45	0.50	69	N				37	CA
11/16"	NaturalSun Low-E IG w/ SDL	PEL-N-244-00350-00002	2.5	2.5	2.5	argon	0.23	0.45	0.50	69	N				37	CA
11/16"	NaturalSun Low-E IG	PEL-N-244-00351-00001	3	3	3	argon	0.23	0.49	0.56	68	N				39	CA
11/16"	NaturalSun Low-E IG w/ GBG	PEL-N-244-00352-00001	3	3	3	argon	0.23	0.44	0.50	68	N				37	CA
11/16"	NaturalSun Low-E IG w/ SDL	PEL-N-244-00352-00002	3	3	3	argon	0.23	0.44	0.50	68	N				37	CA
11/16"	NaturalSun Low-E IG	PEL-N-244-00353-00001	4	4	4	argon	0.23	0.47	0.55	67	N				38	CA
11/16"	NaturalSun Low-E IG w/ GBG	PEL-N-244-00354-00001	4	4	4	argon	0.24	0.43	0.49	67	N				35	CA
11/16"	NaturalSun Low-E IG w/ SDL	PEL-N-244-00354-00002	4	4	4	argon	0.24	0.43	0.49	67	N				35	CA
11/16"	NaturalSun Low-E IG	PEL-N-244-00433-00001	5	3	4	argon	0.23	0.47	0.55	67	N				38	CA
11/16"	NaturalSun Low-E IG w/ GBG	PEL-N-244-00434-00001	5	3	4	argon	0.24	0.42	0.49	67	N				34	CA
11/16"	NaturalSun Low-E IG w/ SDL	PEL-N-244-00434-00002	5	3	4	argon	0.24	0.42	0.49	67	N				34	CA
11/16"	NaturalSun+ Low-E IG	PEL-N-244-00257-00001	2.5	2.5	2.5	argon	0.19	0.45	0.55	74	N				42	CA
11/16"	NaturalSun+ Low-E IG w/ GBG	PEL-N-244-00258-00001	2.5	2.5	2.5	argon	0.19	0.41	0.49	74	N				40	CA
11/16"	NaturalSun+ Low-E IG w/ SDL	PEL-N-244-00258-00002	2.5	2.5	2.5	argon	0.19	0.41	0.49	74	N				40	CA
11/16"	NaturalSun+ Low-E IG	PEL-N-244-00259-00001	3	3	3	argon	0.19	0.44	0.54	74	N				42	CA
11/16"	NaturalSun+ Low-E IG w/ GBG	PEL-N-244-00260-00001	3	3	3	argon	0.19	0.40	0.48	74	N	NC			39	CA
11/16"	NaturalSun+ Low-E IG w/ SDL	PEL-N-244-00260-00002	3	3	3	argon	0.19	0.40	0.48	74	N	NC			39	CA
11/16"	NaturalSun+ Low-E IG	PEL-N-244-00261-00001	4	4	4	argon	0.19	0.43	0.54	74	N				41	CA
11/16"	NaturalSun+ Low-E IG w/ GBG	PEL-N-244-00262-00001	4	4	4	argon	0.20	0.38	0.48	74	N	NC			37	CA
11/16"	NaturalSun+ Low-E IG w/ SDL	PEL-N-244-00262-00002	4	4	4	argon	0.20	0.38	0.48	74	N	NC			37	CA
11/16"	NaturalSun+ Low-E IG	PEL-N-244-00325-00001	5	3	4	argon	0.19	0.42	0.54	74	N				40	CA
11/16"	NaturalSun+ Low-E IG w/ GBG	PEL-N-244-00326-00001	5	3	4	argon	0.20	0.38	0.48	74	N	NC			37	CA
11/16"	NaturalSun+ Low-E IG w/ SDL	PEL-N-244-00326-00002	5	3	4	argon	0.20	0.38	0.48	74	N	NC			37	CA

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SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

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Lifestyle Series Casement

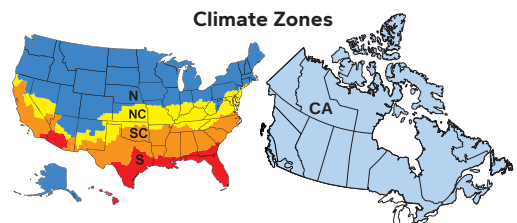
Glazing Performance - Total Unit

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 ²					
			Ext.	Mid	Int.		U-Factor ₁	SHGC	VLT	CR	U. S.				Canada ₂	
											Zone				ER	Zone
Triple-Pane Vent with High Altitude Glazing and Clear HGP											N	NC	SC	S		CA
11/16"	Advanced Low-E HA IG	PEL-N-244-00367-00001	2.5	2.5	2.5	air	0.24	0.27	0.50	67		NC			26	CA
11/16"	Advanced Low-E HA IG w/ GBG	PEL-N-244-00368-00001	2.5	2.5	2.5	air	0.24	0.24	0.44	67		NC			24	CA
11/16"	Advanced Low-E HA IG w/ SDL	PEL-N-244-00368-00002	2.5	2.5	2.5	air	0.24	0.24	0.44	67		NC			24	CA
11/16"	Advanced Low-E HA IG	PEL-N-244-00369-00001	3	3	3	air	0.24	0.27	0.49	66		NC			26	CA
11/16"	Advanced Low-E HA IG w/ GBG	PEL-N-244-00370-00001	3	3	3	air	0.24	0.24	0.44	66		NC			24	CA
11/16"	Advanced Low-E HA IG w/ SDL	PEL-N-244-00370-00002	3	3	3	air	0.24	0.24	0.44	66		NC			24	CA
11/16"	Advanced Low-E HA IG	PEL-N-244-00371-00001	4	4	4	air	0.25	0.26	0.48	65		NC			24	CA
11/16"	Advanced Low-E HA IG w/ GBG	PEL-N-244-00372-00001	4	4	4	air	0.26	0.24	0.43	65					21	CA
11/16"	Advanced Low-E HA IG w/ SDL	PEL-N-244-00372-00002	4	4	4	air	0.26	0.24	0.43	65					21	CA
11/16"	Advanced Low-E HA IG	PEL-N-244-00445-00001	5	3	4	air	0.25	0.26	0.48	65		NC			24	CA
11/16"	Advanced Low-E HA IG w/ GBG	PEL-N-244-00446-00001	5	3	4	air	0.26	0.24	0.43	65					21	CA
11/16"	Advanced Low-E HA IG w/ SDL	PEL-N-244-00446-00002	5	3	4	air	0.26	0.24	0.43	65					21	CA
11/16"	AdvancedComfort Low-E HA IG	PEL-N-244-00275-00001	2.5	2.5	2.5	air	0.20	0.26	0.49	74	N	NC			30	CA
11/16"	AdvancedComfort Low-E HA IG w/ GBG	PEL-N-244-00276-00001	2.5	2.5	2.5	air	0.20	0.24	0.43	74	N	NC			29	CA
11/16"	AdvancedComfort Low-E HA IG w/ SDL	PEL-N-244-00276-00002	2.5	2.5	2.5	air	0.20	0.24	0.43	74	N	NC			29	CA
11/16"	AdvancedComfort Low-E HA IG	PEL-N-244-00277-00001	3	3	3	air	0.20	0.26	0.48	73	N	NC			30	CA
11/16"	AdvancedComfort Low-E HA IG w/ GBG	PEL-N-244-00278-00001	3	3	3	air	0.20	0.23	0.43	73	N	NC	SC	S	28	CA
11/16"	AdvancedComfort Low-E HA IG w/ SDL	PEL-N-244-00278-00002	3	3	3	air	0.20	0.23	0.43	73	N	NC	SC	S	28	CA
11/16"	AdvancedComfort Low-E HA IG	PEL-N-244-00279-00001	4	4	4	air	0.21	0.25	0.47	72	N	NC			28	CA
11/16"	AdvancedComfort Low-E HA IG w/ GBG	PEL-N-244-00280-00001	4	4	4	air	0.21	0.23	0.42	72	N	NC	SC	S	27	CA
11/16"	AdvancedComfort Low-E HA IG w/ SDL	PEL-N-244-00280-00002	4	4	4	air	0.21	0.23	0.42	72	N	NC	SC	S	27	CA
11/16"	AdvancedComfort Low-E HA IG	PEL-N-244-00337-00001	5	3	4	air	0.21	0.25	0.47	72	N	NC			28	CA
11/16"	AdvancedComfort Low-E HA IG w/ GBG	PEL-N-244-00338-00001	5	3	4	air	0.21	0.23	0.42	72	N	NC	SC	S	27	CA
11/16"	AdvancedComfort Low-E HA IG w/ SDL	PEL-N-244-00338-00002	5	3	4	air	0.21	0.23	0.42	72	N	NC	SC	S	27	CA
11/16"	SunDefense™ Low-E HA IG	PEL-N-244-00391-00001	2.5	2.5	2.5	air	0.24	0.20	0.46	67		NC	SC	S	22	CA
11/16"	SunDefense™ Low-E HA IG w/ GBG	PEL-N-244-00392-00001	2.5	2.5	2.5	air	0.24	0.18	0.41	67		NC	SC	S	20	CA
11/16"	SunDefense™ Low-E HA IG w/ SDL	PEL-N-244-00392-00002	2.5	2.5	2.5	air	0.24	0.18	0.41	67		NC	SC	S	20	CA
11/16"	SunDefense™ Low-E HA IG	PEL-N-244-00393-00001	3	3	3	air	0.24	0.20	0.45	67		NC	SC	S	22	CA
11/16"	SunDefense™ Low-E HA IG w/ GBG	PEL-N-244-00394-00001	3	3	3	air	0.24	0.18	0.41	67		NC	SC	S	20	CA
11/16"	SunDefense™ Low-E HA IG w/ SDL	PEL-N-244-00394-00002	3	3	3	air	0.24	0.18	0.41	67		NC	SC	S	20	CA
11/16"	SunDefense™ Low-E HA IG	PEL-N-244-00395-00001	4	4	4	air	0.25	0.20	0.45	65		NC	SC	S	20	CA
11/16"	SunDefense™ Low-E HA IG w/ GBG	PEL-N-244-00396-00001	4	4	4	air	0.26	0.18	0.40	65			SC	S	18	CA
11/16"	SunDefense™ Low-E HA IG w/ SDL	PEL-N-244-00396-00002	4	4	4	air	0.26	0.18	0.40	65			SC	S	18	CA
11/16"	SunDefense™ Low-E HA IG	PEL-N-244-00461-00001	5	3	4	air	0.25	0.20	0.45	65		NC	SC	S	20	CA
11/16"	SunDefense™ Low-E HA IG w/ GBG	PEL-N-244-00462-00001	5	3	4	air	0.26	0.18	0.40	65			SC	S	18	CA
11/16"	SunDefense™ Low-E HA IG w/ SDL	PEL-N-244-00462-00002	5	3	4	air	0.26	0.18	0.40	65			SC	S	18	CA
11/16"	SunDefense+ Low-E HA IG	PEL-N-244-00287-00001	2.5	2.5	2.5	air	0.19	0.19	0.45	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E HA IG w/ GBG	PEL-N-244-00288-00001	2.5	2.5	2.5	air	0.19	0.18	0.40	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E HA IG w/ SDL	PEL-N-244-00288-00002	2.5	2.5	2.5	air	0.19	0.18	0.40	74	N	NC	SC	S	27	CA
11/16"	SunDefense+ Low-E HA IG	PEL-N-244-00289-00001	3	3	3	air	0.20	0.19	0.44	74	N	NC	SC	S	26	CA
11/16"	SunDefense+ Low-E HA IG w/ GBG	PEL-N-244-00290-00001	3	3	3	air	0.20	0.18	0.40	74	N	NC	SC	S	25	CA
11/16"	SunDefense+ Low-E HA IG w/ SDL	PEL-N-244-00290-00002	3	3	3	air	0.20	0.18	0.40	74	N	NC	SC	S	25	CA
11/16"	SunDefense+ Low-E HA IG	PEL-N-244-00291-00001	4	4	4	air	0.21	0.19	0.44	72	N	NC	SC	S	25	CA
11/16"	SunDefense+ Low-E HA IG w/ GBG	PEL-N-244-00292-00001	4	4	4	air	0.21	0.18	0.39	72	N	NC	SC	S	24	CA
11/16"	SunDefense+ Low-E HA IG w/ SDL	PEL-N-244-00292-00002	4	4	4	air	0.21	0.18	0.39	72	N	NC	SC	S	24	CA
11/16"	SunDefense+ Low-E HA IG	PEL-N-244-00345-00001	5	3	4	air	0.21	0.19	0.44	72	N	NC	SC	S	25	CA
11/16"	SunDefense+ Low-E HA IG w/ GBG	PEL-N-244-00346-00001	5	3	4	air	0.21	0.18	0.39	72	N	NC	SC	S	24	CA
11/16"	SunDefense+ Low-E HA IG w/ SDL	PEL-N-244-00346-00002	5	3	4	air	0.21	0.18	0.39	72	N	NC	SC	S	24	CA

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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Lifestyle Series Casement

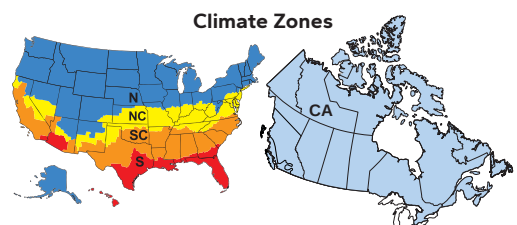
Glazing Performance - Total Unit

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 ₁	SHGC	VLT	CR	U. S.				Canada ₂	
											Zone				ER	Zone
Triple-Pane Vent with High Altitude Glazing and Clear HGP											N	NC	SC	S	CA	
11/16"	NaturalSun Low-E HA IG	PEL-N-244-00355-00001	2.5	2.5	2.5	air	0.25	0.49	0.56	67	N				37	CA
11/16"	NaturalSun Low-E HA IG w/ GBG	PEL-N-244-00356-00001	2.5	2.5	2.5	air	0.25	0.44	0.50	67	N				34	CA
11/16"	NaturalSun Low-E HA IG w/ SDL	PEL-N-244-00356-00002	2.5	2.5	2.5	air	0.25	0.44	0.50	67	N				34	CA
11/16"	NaturalSun Low-E HA IG	PEL-N-244-00357-00001	3	3	3	air	0.25	0.48	0.56	66	N				36	CA
11/16"	NaturalSun Low-E HA IG w/ GBG	PEL-N-244-00358-00001	3	3	3	air	0.25	0.43	0.50	66	N				34	CA
11/16"	NaturalSun Low-E HA IG w/ SDL	PEL-N-244-00358-00002	3	3	3	air	0.25	0.43	0.50	66	N				34	CA
11/16"	NaturalSun Low-E HA IG	PEL-N-244-00359-00001	4	4	4	air	0.26	0.47	0.55	65	N				35	CA
11/16"	NaturalSun Low-E HA IG w/ GBG	PEL-N-244-00360-00001	4	4	4	air	0.26	0.42	0.49	65	N				32	CA
11/16"	NaturalSun Low-E HA IG w/ SDL	PEL-N-244-00360-00002	4	4	4	air	0.26	0.42	0.49	65	N				32	CA
11/16"	NaturalSun Low-E HA IG	PEL-N-244-00437-00001	5	3	4	air	0.26	0.47	0.55	65	N				35	CA
11/16"	NaturalSun Low-E HA IG w/ GBG	PEL-N-244-00438-00001	5	3	4	air	0.26	0.42	0.49	65	N				32	CA
11/16"	NaturalSun Low-E HA IG w/ SDL	PEL-N-244-00438-00002	5	3	4	air	0.26	0.42	0.49	65	N				32	CA
11/16"	NaturalSun+ Low-E HA IG	PEL-N-244-00263-00001	2.5	2.5	2.5	air	0.20	0.45	0.55	73	N				41	CA
11/16"	NaturalSun+ Low-E HA IG w/ GBG	PEL-N-244-00264-00001	2.5	2.5	2.5	air	0.20	0.40	0.49	73	N	NC			38	CA
11/16"	NaturalSun+ Low-E HA IG w/ SDL	PEL-N-244-00264-00002	2.5	2.5	2.5	air	0.20	0.40	0.49	73	N	NC			38	CA
11/16"	NaturalSun+ Low-E HA IG	PEL-N-244-00265-00001	3	3	3	air	0.20	0.44	0.54	73	N				40	CA
11/16"	NaturalSun+ Low-E HA IG w/ GBG	PEL-N-244-00266-00001	3	3	3	air	0.20	0.39	0.48	73	N	NC			37	CA
11/16"	NaturalSun+ Low-E HA IG w/ SDL	PEL-N-244-00266-00002	3	3	3	air	0.20	0.39	0.48	73	N	NC			37	CA
11/16"	NaturalSun+ Low-E HA IG	PEL-N-244-00267-00001	4	4	4	air	0.21	0.42	0.54	72	N				38	CA
11/16"	NaturalSun+ Low-E HA IG w/ GBG	PEL-N-244-00268-00001	4	4	4	air	0.21	0.38	0.48	72	N	NC			36	CA
11/16"	NaturalSun+ Low-E HA IG w/ SDL	PEL-N-244-00268-00002	4	4	4	air	0.21	0.38	0.48	72	N	NC			36	CA
11/16"	NaturalSun+ Low-E HA IG	PEL-N-244-00329-00001	5	3	4	air	0.21	0.42	0.54	72	N				38	CA
11/16"	NaturalSun+ Low-E HA IG w/ GBG	PEL-N-244-00330-00001	5	3	4	air	0.21	0.38	0.48	72	N	NC			36	CA
11/16"	NaturalSun+ Low-E HA IG w/ SDL	PEL-N-244-00330-00002	5	3	4	air	0.21	0.38	0.48	72	N	NC			36	CA

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SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

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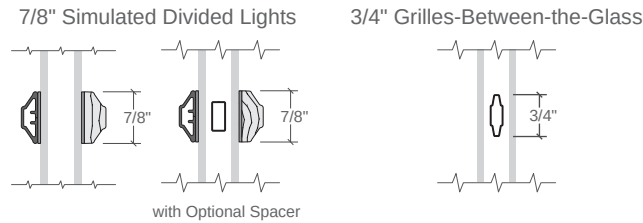




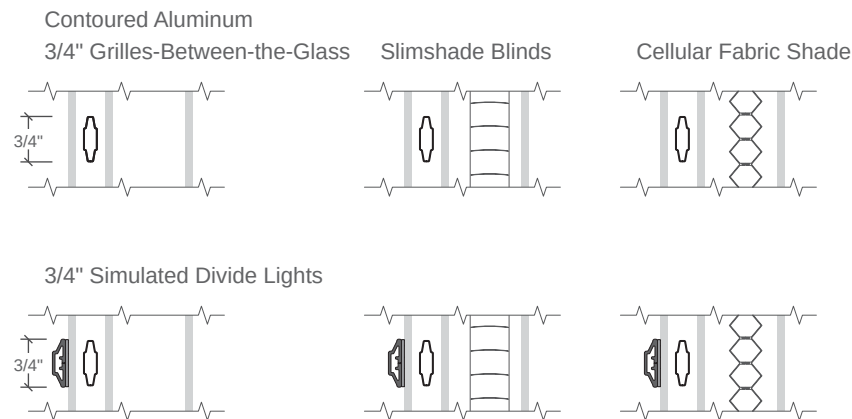
Lifestyle Series Casement

Grilles

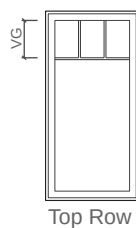
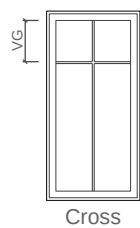
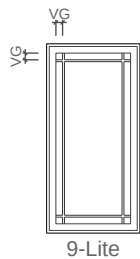
Grille Profiles – Dual-Pane



Grille Profiles – Triple-Pane



Grille Patterns



9-Lite Prairie

- Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
- Available in transoms $\geq$ 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.

VG = Visible Glass

Lite dimensions noted can vary.

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



Lifestyle Series Casement

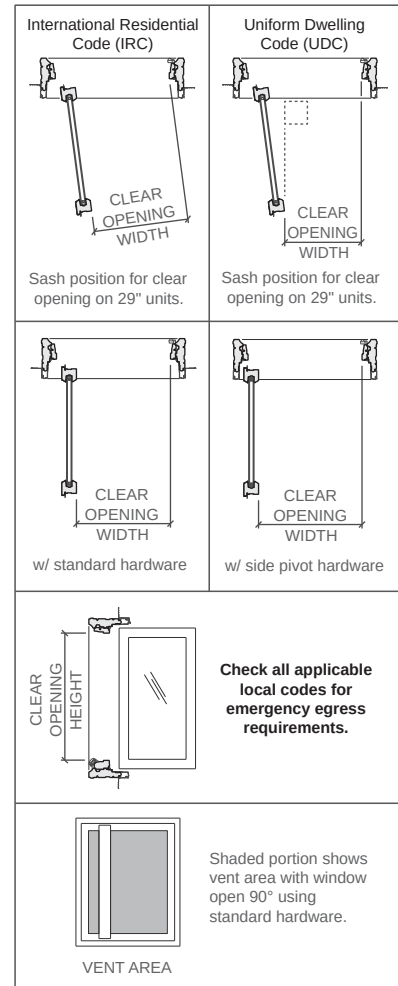
Standard Size Tables – Dual-Pane

Transoms

	(451) (432)		(552) (533)		(603) (584)		(654) (635)		(756) (737)		(832) (813)		(908) (889)	
	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame
	1' 5 3/4"	1' 5"	1' 9 3/4"	1' 9"	1' 11 3/4"	1' 11"	2' 1 3/4"	2' 1"	2' 5 3/4"	2' 5"	2' 8 3/4"	2' 8"	2' 11 3/4"	2' 11"
(451) (432)		1717		2117		2317		2517		2917		3217		3517
(552) (533)		1721		2121		2321		2521		2921		3221		3521
(603) (584)		1723		2123		2323		2523		2923		3223		3523
(654) (635)		1725		2125		2325		2525		2925		3225		3525
(756) (737)		1729		2129		2329		2529		2929		3229		3529

Vent Units

	(832) (813)		(908) (889)		(1 060) (1 041)		(1 213) (1 194)		(1 365) (1 346)		(1 518) (1 499)		(1 670) (1 651)		(1 822) (1 803)		(1 873) (1 854)	
	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame
	2' 8 3/4"	2' 8"	2' 11 3/4"	2' 11"	3' 5 3/4"	3' 5"	3' 11 3/4"	3' 11"	4' 5 3/4"	4' 5"	4' 11 3/4"	4' 11"	5' 5 3/4"	5' 5"	5' 11 3/4"	5' 11"	6' 1 3/4"	6' 1"
(832) (813)		1732		2132		2332		2532		2932		3232		3532				
(908) (889)		1735		2135		2335		2535		2935		3235		3535				
(1 060) (1 041)		1741		2141		2341		2541		2941		3241		3541				
(1 213) (1 194)		1747		2147		2347		2547		2947		3247		3547				
(1 365) (1 346)		1753		2153		2353		2553		2953		3253		3553				
(1 518) (1 499)		1759		2159		2359		2559		2959		3259		3559				
(1 670) (1 651)		1765		2165		2365		2565		2965		3265		3565				
(1 822) (1 803)		1771		2171		2371		2571		2971		3271		3571				
(1 873) (1 854)		1773		2173		2373		2573		2973		3273		3573				



Egress Notes:

Check all applicable local codes for emergency egress requirements.

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

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

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

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

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

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.

Egress information shown is for International Residential Code (IRC) standards only, see Design Data page for Uniform Dwelling Code (UDC) information.

Not to scale.

(F) = Fixed Units only

(T) = Tempered glass required due to aspect ratio.

Traditional grille patterns shown. Refer to Grilles page for additional patterns and profiles.

Transom standard sizes available up to 73" wide, see fixed size table for details.



Lifestyle Series Casement

Standard Size Tables – Dual-Pane

Fixed Units

		(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)	(1 873) (1 854)
Opening		1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"	6' 1 3/4"
Frame		1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"	6' 1"
(451) (432)	1' 5"												
(552) (533)	1' 9"												
(603) (584)	1' 11"												
(654) (635)	2' 1"												
(756) (737)	2' 5"												
(832) (813)	2' 8"												
(908) (889)	2' 11"												
(1 060) (1 041)	3' 5"												
(1 213) (1 194)	3' 11"												
(1 365) (1 346)	4' 5"												
(1 518) (1 499)	4' 11"												
(1 670) (1 651)	5' 5"												
(1 822) (1 803)	5' 11"												
(1 873) (1 854)	6' 1"												

Not to scale.

(T) = Tempered required due to aspect ratio.

Traditional grille patterns shown. Refer to Grilles page for additional patterns and profiles.



Lifestyle Series Casement

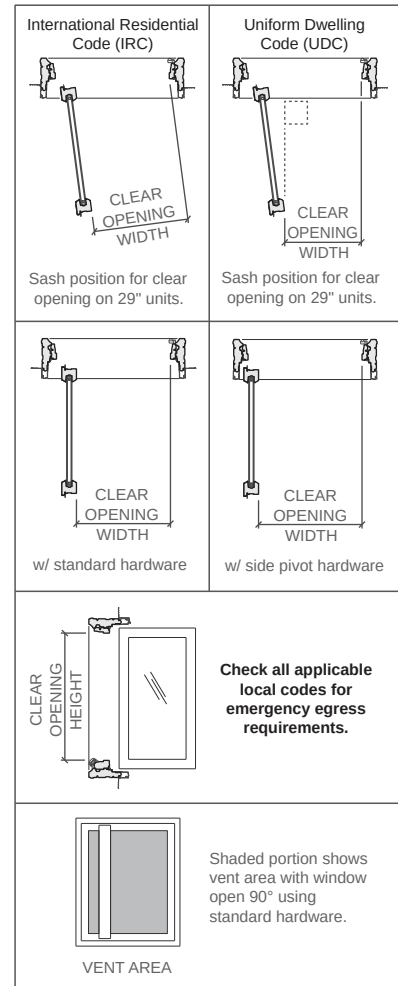
Standard Size Tables – Triple-Pane

Transoms

Opening	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)
	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"
1' 5"	1717	2117	2317	2517	2917	3217	3517
1' 9"	1721	2121	2321	2521	2921	3221	3521
1' 11"	1723	2123	2323	2523	2923	3223	3523
2' 1"	1725	2125	2325	2525	2925	3225	3525
2' 5"	1729	2129	2329	2529	2929	3229	3529

Vent Units

Opening	(832) (813)	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)	(1 670) (1 651)	(1 822) (1 803)	(1 873) (1 854)
	2' 8"	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"	5' 5"	5' 11"	6' 1"
2' 8"	1732	2132	2332	2532	2932	3232	3532		
2' 11"	1735	2135	2335	2535	2935	3235	3535		
3' 5"	1741	2141	2341	2541	2941	3241	3541		
3' 11"	1747	2147	2347	2547	2947	3247	3547		
4' 5"	1753	2153	2353	2553	2953	3253	3553		
4' 11"	1759	2159	2359	2559	2959	3259	3559		
5' 5"	1765	2165	2365	2565	2965	3265	3565		
5' 11"	1771	2171	2371	2571	2971	3271	3571		
6' 1"	1773	2173	2373	2573	2973	3273	3573		



Egress Notes:

Check all applicable local codes for emergency egress requirements.

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

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

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

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

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

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.

Egress information shown is for International Residential Code (IRC) standards only, see Design Data page for Uniform Dwelling Code (UDC) information.

Not to scale.

(F) = Fixed Units only

(T) = Tempered glass required due to aspect ratio.

Traditional grille patterns shown. Refer to Grilles page for additional patterns and profiles.

Transom standard sizes available up to 73" wide, see fixed size table for details.



Lifestyle Series Casement

Standard Size Tables – Triple-Pane

Fixed Units

	(451) (432)		(552) (533)		(603) (584)		(654) (635)		(756) (737)		(832) (813)		(908) (889)		(1 060) (1 041)		(1 213) (1 194)		(1 365) (1 346)		(1 518) (1 499)		(1 873) (1 854)	
	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame	Opening	Frame
	1' 5 3/4"	1' 5"	1' 9 3/4"	1' 9"	1' 11 3/4"	1' 11"	2' 1 3/4"	2' 1"	2' 5 3/4"	2' 5"	2' 8 3/4"	2' 8"	2' 11 3/4"	2' 11"	3' 5 3/4"	3' 5"	3' 11 3/4"	3' 11"	4' 5 3/4"	4' 5"	4' 11 3/4"	4' 11"	6' 1 3/4"	6' 1"
(451) (432)		1717		2117		2317		2517		2917		3217		3517		4117		4717		5317		5917		7317
(552) (533)		1721		2121		2321		2521		2921		3221		3521		4121		4721		5321		5921		7321
(603) (584)		1723		2123		2323		2523		2923		3223		3523		4123		4723		5323		5923		7323
(654) (635)		1725		2125		2325		2525		2925		3225		3525		4125		4725		5325		5925		7325
(756) (737)		1729		2129		2329		2529		2929		3229		3529		4129		4729		5329		5929		7329
(832) (813)		1732		2132		2332		2532		2932		3232		3532		4132		4732		5332		5932		
(908) (889)		1735		2135		2335		2535		2935		3235		3535		4135		4735		5335		5935		
(1 060) (1 041)		1741		2141		2341		2541		2941		3241		3541		4141		4741		5341		5941		
(1 213) (1 194)		1747		2147		2347		2547		2947		3247		3547		4147		4747		5347		5947		
(1 365) (1 346)		1753		2153		2353		2553		2953		3253		3553		4153		4753		5353		5953		
(1 518) (1 499)		1759		2159		2359		2559		2959		3259		3559		4159		4759		5359		5959		
(1 670) (1 651)		1765		2165		2365		2565		2965		3265		3565		4165		4765		5365		5965		
(1 822) (1 803)		1771		2171		2371		2571		2971		3271		3571		4171		4771		5371		5971		
(1 873) (1 854)		1773		2173		2373		2573		2973		3273		3573		4173		4773		5373		5973		

Not to scale.

(T) = Tempered required due to aspect ratio.

Traditional grille patterns shown. Refer to Grilles page for additional patterns and profiles.



Lifestyle Series Casement

Special Sizes and Dimensions

Casement Special Size Frame Dimensions*

	Minimum	Maximum
Vent Dual-Pane	1' 5" W x 1' 5" H (17" x 17") (432 x 432)	2' 11" W x 6' 1" H (35" x 73") (889 x 1854)
Fixed Dual-Pane	1' 5" W x 1' 2" H (17" x 14") (432 x 356)	4' 11" W x 6' 1" H (59" x 73") (1499 x 1854)
Vent Triple-Pane	1' 5" W x 1' 5" H (17" x 17") (432 x 432)	2' 11" W x 6' 1" H (35" x 73") (889 x 1854)
Fixed Triple-Pane	1' 5" W x 1' 5" H (17" x 17") (432 x 432)	4' 11" W x 6' 1" H (59" x 73") (1499 x 1854)

Egress Formulas

Clear Opening Height

Frame Height - 4-1/8"

Clear Opening Width

Hinge	Frame Width	Formula
Standard	FW < 29"	FW - 9-3/4"
Standard (IRC)	FW ≥ 29" and ≤ 30-1/2"	FW - 9"
Standard (UDC)	FW ≥ 29" and ≤ 30-1/2"	FW - 9-3/4"
Standard	FW > 30-1/2"	FW - 9-3/4"
Side Pivot	FW ≥ 25" and < 35"	FW - 4-3/8"

Glass Formulas

	Formulas
Visible Glass Dual-Pane	Width = Frame - 4.92" Height = Frame - 4.92"
Visible Glass Triple-Pane	Width = Frame - 5.938" Height = Frame - 5.938"
Actual Glass ₁ Dual-Pane	Width = Frame - 4" Height = Frame - 4"
Actual Glass ₁ Triple-Pane	Width = Frame - 5" Height = Frame - 5"

Triple-Pane Integrated Window Fashions – Operator Handing Guide

Unit Type	Shade Operator Location from Exterior	Interior Hinged Glass Panel Style
Right-Hand Vent	Right	Bottom Hinge
Left-Hand Vent	Left	Bottom Hinge
Fixed	Left	Bottom Hinge
Large Fixed	Left	Bottom Hinge

* Available within size range shown.

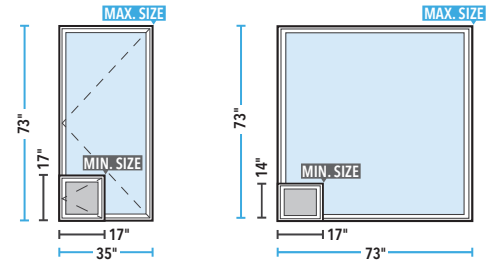
Keep frame dimensions to the nearest 1/4" increment. Frame height cannot exceed frame width on special size dual-pane vent units.

(1) Actual glass of exterior light. Interior Moveable Light is 9/16" smaller.

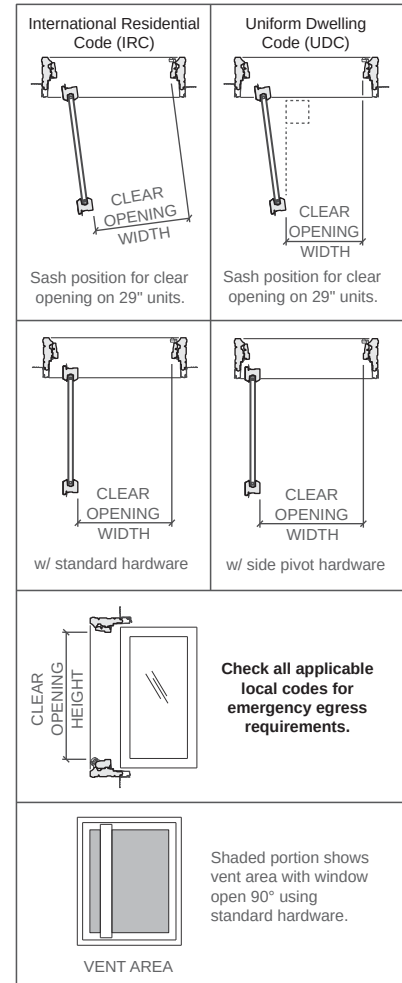
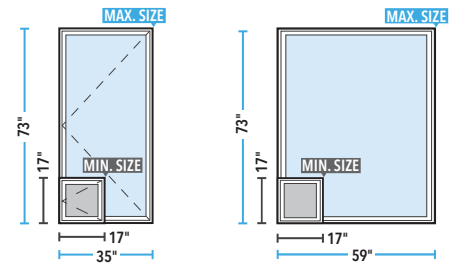
Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. You should consult your local building code to ensure products with Rolcreens meet egress requirements.

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

Dual-Pane



Triple-Pane



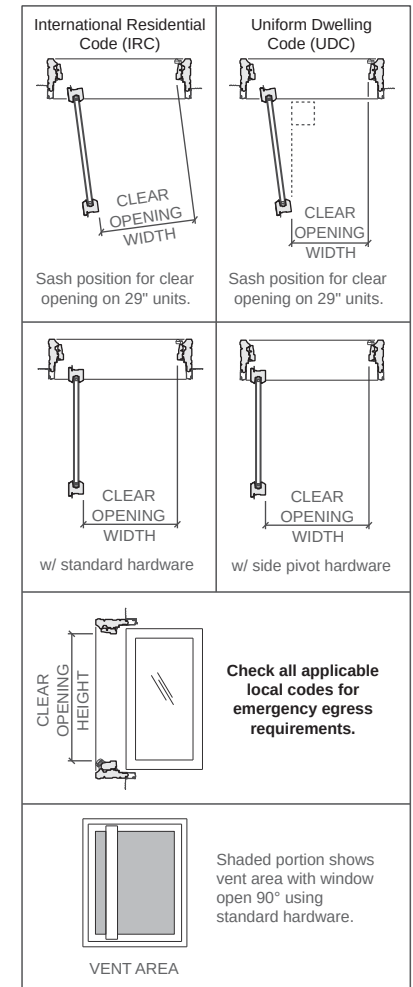


Lifestyle Series Casement

Design Data

Dual-Pane Vent										
Unit	Egress (IRC)	Egress (UDC)	Clear Opening			Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
			Width (Inches)	Height (Inches)	Ft²			Annealed	Tempered	
1717			7-1/4	12-7/8	0.6	0.8	1.0	2.5	3	LC50
1732			7-1/4	27-7/8	1.4	1.9	2.3	2.5	3	LC50
1735			7-1/4	30-7/8	1.6	2.1	2.5	2.5	3	LC50
1741			7-1/4	36-7/8	1.9	2.5	3.0	2.5	3	LC50
1747			7-1/4	42-7/8	2.2	3.0	3.5	2.5	3	LC50
1753			7-1/4	48-7/8	2.5	3.4	4.0	2.5	3	LC50
1759			7-1/4	54-7/8	2.8	3.8	4.5	2.5	3	LC50
1765			7-1/4	60-7/8	3.1	4.2	5.0	2.5	3	LC50
1771 _T			7-1/4	66-7/8	3.4	4.7	5.5	---	3	LC50
1773 _T			7-1/4	68-7/8	3.5	4.8	5.7	---	3	LC50
2121			11-1/4	16-7/8	1.3	1.5	1.8	2.5	3	LC50
2132			11-1/4	27-7/8	2.2	2.6	3.0	2.5	3	LC50
2135			11-1/4	30-7/8	2.4	2.9	3.4	2.5	3	LC50
2141			11-1/4	36-7/8	2.9	3.5	4.0	2.5	3	LC50
2147			11-1/4	42-7/8	3.3	4.1	4.7	2.5	3	LC50
2153			11-1/4	48-7/8	3.8	4.7	5.4	2.5	3	LC50
2159			11-1/4	54-7/8	4.3	5.3	6.0	2.5	3	LC45/LC50
2165			11-1/4	60-7/8	4.8	5.9	6.7	2.5	3	LC45/LC50
2171			11-1/4	66-7/8	5.2	6.5	7.4	2.5	3	LC40/LC50
2173			11-1/4	68-7/8	5.4	6.7	7.6	2.5	3	LC40/LC50
2323			13-1/4	18-7/8	1.7	2.0	2.3	2.5	3	LC50
2332			13-1/4	27-7/8	2.6	3.0	3.4	2.5	3	LC50
2335			13-1/4	30-7/8	2.8	3.3	3.8	2.5	3	LC50
2341			13-1/4	36-7/8	3.4	4.0	4.5	2.5	3	LC50
2347			13-1/4	42-7/8	3.9	4.7	5.3	2.5	3	LC50
2353			13-1/4	48-7/8	4.5	5.4	6.0	2.5	3	LC50
2359			13-1/4	54-7/8	5.0	6.0	6.8	2.5	3	LC45/LC50
2365			13-1/4	60-7/8	5.6	6.7	7.5	2.5	3	LC40/LC50
2371			13-1/4	66-7/8	6.2	7.4	8.3	2.5	3	LC35/LC50
2373			13-1/4	68-7/8	6.3	7.6	8.5	2.5	3	LC35/LC50
2525			15-1/4	20-7/8	2.2	2.5	2.8	2.5	3	LC50
2532			15-1/4	27-7/8	3.0	3.4	3.8	2.5	3	LC50
2535			15-1/4	30-7/8	3.3	3.8	4.2	2.5	3	LC50
2541	E ₃	E ₃	20-5/8	36-7/8	5.3	4.5	5.0	2.5	3	LC50
2547	E ₂	E ₂	20-5/8	42-7/8	6.1	5.3	5.9	2.5	3	LC50
2553	E ₂	E ₂	20-5/8	48-7/8	7.0	6.0	6.7	2.5	3	LC50
2559	E ₂	E ₂	20-5/8	54-7/8	7.9	6.8	7.5	2.5	3	LC45/LC50
2565	E ₂	E ₂	20-5/8	60-7/8	8.7	7.5	8.4	2.5	3	LC40/LC50
2571	E ₂	E ₂	20-5/8	66-7/8	9.6	8.3	9.2	2.5	3	LC35/LC50
2573	E ₂	E ₂	20-5/8	68-7/8	9.9	8.6	9.5	2.5	3	LC30/LC50

Continued on next page



Egress Notes:

Check all applicable local codes for emergency egress requirements.

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

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

(-) = Not Applicable

(T) = Tempered required due to aspect ratio.

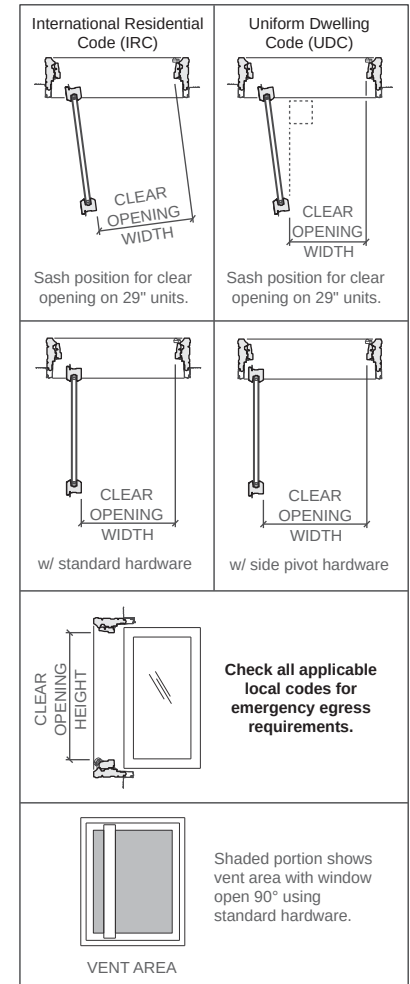
(1) Maximum performance when glazed with the appropriate glass thickness.



Lifestyle Series Casement

Design Data

Dual-Pane Vent										
Unit	Egress (IRC)	Egress (UDC)	Clear Opening			Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
			Width (Inches)	Height (Inches)	Ft ²			Annealed	Tempered	
2929			20	24-7/8	3.5	3.7	4.0	2.5	3	LC50
2932			20	27-7/8	3.9	4.1	4.5	2.5	3	LC50
2935	E ₃	E ₃	24-5/8	30-7/8	5.3	4.6	5.0	2.5	3	LC50
2941	E ₁ , E ₂	E ₂	24-5/8	36-7/8	6.3	5.5	6.0	2.5	3	LC50
2947	E	E ₂	20	42-7/8	6.0	6.4	7.0	2.5	3	LC50
2953	E	E ₂	20	48-7/8	6.8	7.4	8.0	2.5	3	LC50
2959	E	E ₂	20	54-7/8	7.6	8.3	9.0	2.5	3	LC45/LC50
2965	E	E ₂	20	60-7/8	8.5	9.2	10.0	2.5	3	LC30/LC50 ₍₂₎
2971	E	E ₂	20	66-7/8	9.3	10.1	11.1	3	3	LC30/LC50 ₍₂₎
2973	E	E ₂	20	68-7/8	9.6	10.4	11.4	3	3	LC30/LC50 ₍₂₎
3232	E ₃	E ₃	22-1/4	27-7/8	4.3	4.7	5.1	2.5	3	LC50
3235	E ₂	E ₂	27-5/8	30-7/8	5.9	5.2	5.7	2.5	3	LC50
3241	E ₁ , E ₂	E ₁ , E ₂	27-5/8	36-7/8	7.1	6.2	6.8	2.5	3	LC50
3247	E	E	22-1/4	42-7/8	6.6	7.3	7.9	2.5	3	LC50
3253	E	E	22-1/4	48-7/8	7.5	8.3	9.0	2.5	3	LC50
3259	E	E	22-1/4	54-7/8	8.4	9.4	10.2	2.5	3	LC45/LC50
3265	E	E	22-1/4	60-7/8	9.4	10.4	11.3	3	3	LC30/LC50 ₍₂₎
3271	E	E	22-1/4	66-7/8	10.3	11.5	12.4	3	3	LC30/LC50 ₍₂₎
3273	E	E	22-1/4	68-7/8	10.6	11.8	12.8	3	3	LC30/LC50 ₍₂₎
3535	E ₁ , E ₂	E ₁ , E ₂	30-5/8	30-7/8	6.6	5.8	6.3	2.5	3	LC50
3541	E	E	25-1/4	36-7/8	6.5	7.0	7.5	2.5	3	LC50
3547	E	E	25-1/4	42-7/8	7.5	8.2	8.8	2.5	3	LC50
3553	E	E	25-1/4	48-7/8	8.6	9.3	10.0	2.5	3	LC45/LC50
3559	E	E	25-1/4	54-7/8	9.6	10.5	11.3	3	3	LC50
3565	E	E	25-1/4	60-7/8	10.7	11.7	12.6	3	3	LC30/LC50 ₍₂₎
3571	E	E	25-1/4	66-7/8	11.7	12.9	13.8	3	3	LC30/LC50 ₍₂₎
3573	E	E	25-1/4	68-7/8	12.1	13.3	14.2	3	3	LC30/LC50 ₍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.

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

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

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.

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

(2) Second number shown requires tempered glass and DP kit. Florida certification documents DP50 with kit installed (Vent: FL 20675). Unit label will indicate DP30 since kit is not factory installed. Review Pella Instructions and FPAS documentation for installation requirements.

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



Lifestyle Series Casement

Design Data

Dual-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
		Annealed	Tempered	Annealed	Tempered
1717	1.0	2.5	3	LC50	LC50
1721	1.3	2.5	3	LC50	LC50
1723	1.5	2.5	3	LC50	LC50
1725	1.7	2.5	3	LC50	LC50
1729	2.0	2.5	3	LC50	LC50
1732	2.3	2.5	3	LC50	LC50
1735	2.5	2.5	3	LC50	LC50
1741	3.0	2.5	3	LC50	LC50
1747	3.5	2.5	3	LC50	LC50
1753	4.0	2.5	3	LC50	LC50
1759	4.5	2.5	3	LC50	LC50
1765	5.0	2.5	3	LC50	LC50
1771 _T	5.5	---	3	---	LC50
1773 _T	5.7	---	3	---	LC50
2117	1.3	2.5	3	LC50	LC50
2121	1.8	2.5	3	LC50	LC50
2123	2.0	2.5	3	LC50	LC50
2125	2.2	2.5	3	LC50	LC50
2129	2.7	2.5	3	LC50	LC50
2132	3.0	2.5	3	LC50	LC50
2135	3.4	2.5	3	LC50	LC50
2141	4.0	2.5	3	LC50	LC50
2147	4.7	2.5	3	LC50	LC50
2153	5.4	2.5	3	LC50	LC50
2159	6.0	2.5	3	LC45	LC50
2165	6.7	2.5	3	LC45	LC50
2171	7.4	2.5	3	LC40	LC50
2173	7.6	2.5	3	LC40	LC50
2317	1.5	2.5	3	LC50	LC50
2321	2.0	2.5	3	LC50	LC50
2323	2.3	2.5	3	LC50	LC50
2325	2.5	2.5	3	LC50	LC50
2329	3.0	2.5	3	LC50	LC50
2332	3.4	2.5	3	LC50	LC50
2335	3.8	2.5	3	LC50	LC50
2341	4.5	2.5	3	LC50	LC50
2347	5.3	2.5	3	LC50	LC50
2353	6.0	2.5	3	LC50	LC50
2359	6.8	2.5	3	LC45	LC50
2365	7.5	2.5	3	LC40	LC50
2371	8.3	2.5	3	LC35	LC50
2373	8.5	2.5	3	LC35	LC50

Dual-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
		Annealed	Tempered	Annealed	Tempered
2517	1.7	2.5	3	LC50	LC50
2521	2.2	2.5	3	LC50	LC50
2523	2.5	2.5	3	LC50	LC50
2525	2.8	2.5	3	LC50	LC50
2529	3.4	2.5	3	LC50	LC50
2532	3.8	2.5	3	LC50	LC50
2535	4.2	2.5	3	LC50	LC50
2541	5.0	2.5	3	LC50	LC50
2547	5.9	2.5	3	LC50	LC50
2553	6.7	2.5	3	LC50	LC50
2559	7.5	2.5	3	LC45	LC50
2565	8.4	2.5	3	LC40	LC50
2571	9.2	2.5	3	LC35	LC50
2573	9.5	2.5	3	LC30	LC50
2917	2.0	2.5	3	LC50	LC50
2921	2.7	2.5	3	LC50	LC50
2923	3.0	2.5	3	LC50	LC50
2925	3.4	2.5	3	LC50	LC50
2929	4.0	2.5	3	LC50	LC50
2932	4.5	2.5	3	LC50	LC50
2935	5.0	2.5	3	LC50	LC50
2941	6.0	2.5	3	LC50	LC50
2947	7.0	2.5	3	LC50	LC50
2953	8.0	2.5	3	LC50	LC50
2959	9.0	2.5	3	LC45	LC50
2965	10.0	2.5	3	LC30	LC30/LC50 ⁽²⁾
2971	11.1	3	3	LC30	LC30/LC50 ⁽²⁾
2973	11.4	3	3	LC30	LC30/LC50 ⁽²⁾
3217	2.3	2.5	3	LC50	LC50
3221	3.0	2.5	3	LC50	LC50
3223	3.4	2.5	3	LC50	LC50
3225	3.8	2.5	3	LC50	LC50
3229	4.5	2.5	3	LC50	LC50
3232	5.1	2.5	3	LC50	LC50
3235	5.7	2.5	3	LC50	LC50
3241	6.8	2.5	3	LC50	LC50
3247	7.9	2.5	3	LC50	LC50
3253	9.0	2.5	3	LC50	LC50
3259	10.2	2.5	3	LC45	LC50
3265	11.3	3	3	LC30	LC30/LC50 ⁽²⁾
3271	12.4	3	3	LC30	LC30/LC50 ⁽²⁾
3273	12.8	3	3	LC30	LC30/LC50 ⁽²⁾

Continued on next page

(-) = Not Applicable

(T) = Tempered required due to aspect ratio.

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

(2) Second number shown requires tempered glass and DP kit. Florida certification documents DP50 with kit installed (Fixed: FL 20653). Unit label will indicate DP30 since kit is not factory installed.

Review Pella Instructions and FPAS documentation for installation requirements.

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



Lifestyle Series Casement

Design Data

Dual-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
		Annealed	Tempered	Annealed	Tempered
3517	2.5	2.5	3	LC50	LC50
3521	3.4	2.5	3	LC50	LC50
3523	3.8	2.5	3	LC50	LC50
3525	4.2	2.5	3	LC50	LC50
3529	5.0	2.5	3	LC50	LC50
3532	5.7	2.5	3	LC50	LC50
3535	6.3	2.5	3	LC50	LC50
3541	7.5	2.5	3	LC50	LC50
3547	8.8	2.5	3	LC50	LC50
3553	10.0	2.5	3	LC45	LC50
3559	11.3	3	3	LC50	LC50
3565	12.6	3	3	LC30	LC30/LC50 ₍₂₎
3571	13.8	3	3	LC30	LC30/LC50 ₍₂₎
3573	14.2	3	3	LC30	LC30/LC50 ₍₂₎
4117	3.0	2.5	3	LC50	LC50
4121	4.0	2.5	3	LC50	LC50
4123	4.5	2.5	3	LC50	LC50
4125	5.0	2.5	3	LC50	LC50
4129	6.0	2.5	3	LC50	LC50
4132	6.8	2.5	3	LC50	LC50
4135	7.5	2.5	3	LC50	LC50
4141	9.0	2.5	3	LC30	LC30
4147	10.5	3	3	LC30	LC30
4153	12.0	3	3	LC30	LC30
4159	13.6	3	3	LC30	LC30
4165	15.1	3	3	LC30	LC30
4171	16.6	3	3	LC30	LC30
4173	17.1	3	3	LC30	LC30
4717	3.5	2.5	3	LC50	LC50
4721	4.7	2.5	3	LC50	LC50
4723	5.3	2.5	3	LC50	LC50
4725	5.9	2.5	3	LC50	LC50
4729	7.0	2.5	3	LC50	LC50
4732	7.9	2.5	3	LC50	LC50
4735	8.8	2.5	3	LC50	LC50
4741	10.5	3	3	LC30	LC30
4747	12.3	3	3	LC30	LC30
4753	14.1	3	3	LC30	LC30
4759	15.8	3	3	LC30	LC30
4765	17.6	3	3	LC30	LC30
4771	19.3	4	4	LC30	LC30
4773	19.9	4	4	LC30	LC30

Dual-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
		Annealed	Tempered	Annealed	Tempered
5317	4.0	2.5	3	LC50	LC50
5321	5.4	2.5	3	LC50	LC50
5323	6.0	2.5	3	LC50	LC50
5325	6.7	2.5	3	LC50	LC50
5329	8.0	2.5	3	LC50	LC50
5332	9.0	2.5	3	LC50	LC50
5335	10.0	2.5	3	LC45	LC50
5341	12.0	3	3	LC30	LC30
5347	14.1	3	3	LC30	LC30
5353	16.1	3	4	LC30	LC30
5359	18.1	4	4	LC30	LC30
5365	20.1	4	4	LC30	LC30
5371	22.1	4	4	LC30	LC30
5373	22.7	4	4	LC30	LC30
5917	4.5	2.5	3	LC50	LC50
5921	6.0	2.5	3	LC45	LC50
5923	6.8	2.5	3	LC45	LC50
5925	7.5	2.5	3	LC45	LC50
5929	9.0	2.5	3	LC45	LC50
5932	10.2	2.5	3	LC45	LC50
5935	11.3	3	3	LC50	LC50
5941	13.6	3	3	LC30	LC30
5947	15.8	3	3	LC30	LC30
5953	18.1	4	4	LC30	LC30
5959	20.3	4	4	LC30	LC30
5965	22.6	4	4	LC30	LC30
5971	24.8	4	4	LC30	LC30
5973	25.6	5	5	LC30	LC30
7317T	5.7	---	3	---	LC50
7321	7.6	2.5	3	LC40	LC50
7323	8.5	2.5	3	LC35	LC50
7325	9.5	2.5	3	LC30	LC50
7329	11.4	3.0	3	LC30	LC30/LC50 ₍₂₎

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

(2) Second number shown requires tempered glass and DP kit. Florida certification documents DP50 with kit installed (Fixed: FL 20653). Unit label will indicate DP30 since kit is not factory installed.

Review Pella Instructions and FPAS documentation for installation requirements.

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

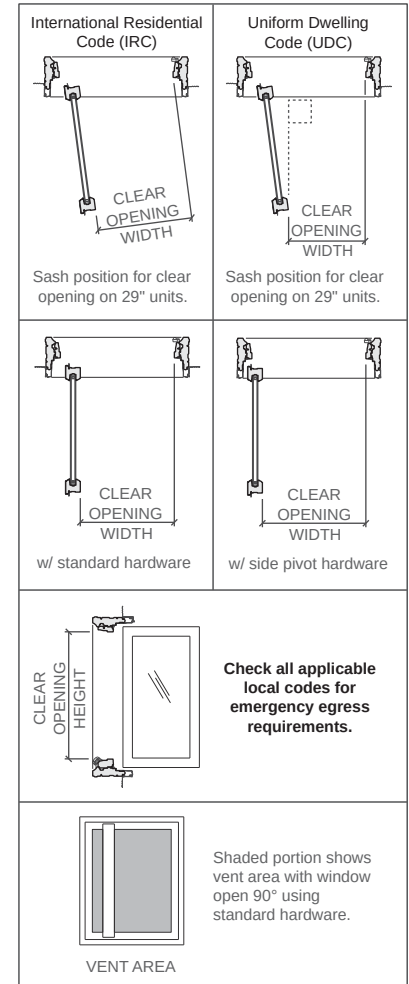


Lifestyle Series Casement

Design Data

Triple-Pane Vent										
Unit	Egress (IRC)	Egress (UDC)	Clear Opening			Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
			Width (Inches)	Height (Inches)	Ft ²			Annealed	Tempered	
1717			7-1/4	12-7/8	0.6	0.8	0.8	2.5	3	LC50
1732			7-1/4	27-7/8	1.4	1.8	2.0	2.5	3	LC50
1735			7-1/4	30-7/8	1.6	2.0	2.2	2.5	3	LC50
1741			7-1/4	36-7/8	1.9	2.4	2.7	2.5	3	LC50
1747			7-1/4	42-7/8	2.2	2.8	3.2	2.5	3	LC50
1753			7-1/4	48-7/8	2.5	3.2	3.6	2.5	3	LC50
1759			7-1/4	54-7/8	2.8	3.6	4.1	2.5	3	LC50
1765 _T			7-1/4	60-7/8	3.1	4.0	4.5	2.5	3	LC50
1771 _T			7-1/4	66-7/8	3.4	4.4	5.0	---	3	LC50
1773 _T			7-1/4	68-7/8	3.5	4.6	5.2	---	3	LC50
2121			11-1/4	16-7/8	1.3	1.5	1.6	2.5	3	LC50
2132			11-1/4	27-7/8	2.2	2.5	2.7	2.5	3	LC50
2135			11-1/4	30-7/8	2.4	2.8	3.0	2.5	3	LC50
2141			11-1/4	36-7/8	2.9	3.4	3.7	2.5	3	LC45/LC50
2147			11-1/4	42-7/8	3.3	4.0	4.3	2.5	3	LC35/LC50
2153			11-1/4	48-7/8	3.8	4.5	4.9	2.5	3	LC35/LC50
2159			11-1/4	54-7/8	4.3	5.1	5.6	2.5	3	LC30/LC50
2165			11-1/4	60-7/8	4.8	5.7	6.2	2.5	3	LC25/LC50
2171			11-1/4	66-7/8	5.2	6.2	6.8	2.5	3	LC25/LC50
2173			11-1/4	68-7/8	5.4	6.4	7.0	2.5	3	LC25/LC50
2323			13-1/4	18-7/8	1.7	1.9	2.0	2.5	3	LC50
2332			13-1/4	27-7/8	2.6	2.9	3.1	2.5	3	LC50
2335			13-1/4	30-7/8	2.8	3.2	3.4	2.5	3	LC50
2341			13-1/4	36-7/8	3.4	3.9	4.2	2.5	3	LC45/LC50
2347			13-1/4	42-7/8	3.9	4.5	4.9	2.5	3	LC35/LC50
2353			13-1/4	48-7/8	4.5	5.2	5.6	2.5	3	LC30/LC50
2359			13-1/4	54-7/8	5.0	5.8	6.3	2.5	3	LC25/LC50
2365			13-1/4	60-7/8	5.6	6.5	7.0	2.5	3	LC25/LC50
2371			13-1/4	66-7/8	6.2	7.2	7.7	2.5	3	R20/LC50
2373			13-1/4	68-7/8	6.3	7.4	7.9	2.5	3	R20/LC50
2525			15-1/4	20-7/8	2.2	2.4	2.5	2.5	3	LC50
2532			15-1/4	27-7/8	3.0	3.3	3.4	2.5	3	LC50
2535			15-1/4	30-7/8	3.3	3.6	3.8	2.5	3	LC50
2541	E ₃	E ₃	20-5/8	36-7/8	5.3	4.4	4.6	2.5	3	LC45/LC50
2547	E ₂	E ₂	20-5/8	42-7/8	6.1	5.1	5.4	2.5	3	LC35/LC50
2553	E ₂	E ₂	20-5/8	48-7/8	7.0	5.9	6.2	2.5	3	LC30/LC50
2559	E ₂	E ₂	20-5/8	54-7/8	7.9	6.6	7.0	2.5	3	LC25/LC50
2565	E ₂	E ₂	20-5/8	60-7/8	8.7	7.3	7.8	2.5	3	R20/LC50
2571	E ₂	E ₂	20-5/8	66-7/8	9.6	8.1	8.6	2.5	3	R20/LC50
2573	E ₂	E ₂	20-5/8	68-7/8	9.9	8.3	8.9	2.5	3	R20/LC50

Continued on next page



Egress Notes:

Check all applicable local codes for emergency egress requirements.

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

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

(-) = Not Applicable

(T) = Tempered required due to aspect ratio.

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

Second value, where shown, requires tempered glass.



Lifestyle Series Casement

Design Data

Triple-Pane Vent										
Unit	Egress (IRC)	Egress (UDC)	Clear Opening			Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ¹
			Width (Inches)	Height (Inches)	Ft ²			Annealed	Tempered	
2929			20	24-7/8	3.5	3.6	3.7	2.5	3	LC50
2932			20	27-7/8	3.9	4.0	4.2	2.5	3	LC50
2935	E ₃	E ₃	24-5/8	30-7/8	5.3	4.5	4.7	2.5	3	LC50
2941	E ₁ , E ₂	E ₂	24-5/8	36-7/8	6.3	5.4	5.6	2.5	3	LC45/LC50
2947	E	E ₂	20	42-7/8	6.0	6.3	6.6	2.5	3	LC35/LC50
2953	E	E ₂	20	48-7/8	6.8	7.2	7.5	2.5	3	LC30/LC50
2959	E	E ₂	20	54-7/8	7.6	8.1	8.5	2.5	3	LC25/LC50
2965	E	E ₂	20	60-7/8	8.5	9.0	9.5	2.5	3	R20/LC50
2971	E	E ₂	20	66-7/8	9.3	9.9	10.4	3	3	LC25/LC50
2973	E	E ₂	20	68-7/8	9.6	10.2	10.7	3	3	LC25/LC50
3232	E ₃	E ₃	22-1/4	27-7/8	4.3	4.6	4.7	2.5	3	LC50
3235	E ₂	E ₂	27-5/8	30-7/8	5.9	5.1	5.3	2.5	3	LC45/LC50
3241	E ₁ , E ₂	E ₁ , E ₂	27-5/8	36-7/8	7.1	6.1	6.3	2.5	3	LC40/LC50
3247	E	E	22-1/4	42-7/8	6.6	7.1	7.4	2.5	3	LC35/LC50
3253	E	E	22-1/4	48-7/8	7.6	8.2	8.5	2.5	3	LC30/LC50
3259	E	E	22-1/4	54-7/8	8.5	9.2	9.6	2.5	3	LC25/LC50
3265	E	E	22-1/4	60-7/8	9.4	10.2	10.7	3	3	LC30/LC50
3271	E	E	22-1/4	66-7/8	10.3	11.3	11.8	3	3	LC25/LC50
3273	E	E	22-1/4	68-7/8	10.6	11.6	12.1	3	3	LC25/LC50
3535	E ₁ , E ₂	E ₁ , E ₂	30-5/8	30-7/8	6.6	5.7	5.9	2.5	3	LC40/LC50
3541	E	E	25-1/4	36-7/8	6.5	6.9	7.1	2.5	3	LC35/LC50
3547	E	E	25-1/4	42-7/8	7.5	8.0	8.3	2.5	3	LC30/LC50
3553	E	E	25-1/4	48-7/8	8.6	9.2	9.5	2.5	3	LC25/LC50
3559	E	E	25-1/4	54-7/8	9.6	10.3	10.7	3	3	LC35/LC50
3565	E	E	25-1/4	60-7/8	10.7	11.5	11.9	3	3	LC30/LC50
3571	E	E	25-1/4	66-7/8	11.7	12.6	13.1	3	3	LC25/LC50
3573	E	E	25-1/4	68-7/8	12.1	13.0	13.5	3	3	LC25/LC50

International Residential Code (IRC)

Sash position for clear opening on 29" units.

Uniform Dwelling Code (UDC)

Sash position for clear opening on 29" units.

w/ standard hardware

w/ side pivot hardware

CLEAR OPENING HEIGHT

Check all applicable local codes for emergency egress requirements.

VENT AREA

Shaded portion shows vent area with window open 90° using standard hardware.

Egress Notes:

Check all applicable local codes for emergency egress requirements.

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

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

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

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

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product.

Consult your local building code to ensure products with Rolscreens meet egress requirements.

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



Lifestyle Series Casement

Design Data

Triple-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
		Annealed	Tempered	Annealed	Tempered
1717	0.8	2.5	3	CW50	CW50
1721	1.2	2.5	3	CW50	CW50
1723	1.3	2.5	3	CW50	CW50
1725	1.5	2.5	3	CW50	CW50
1729	1.8	2.5	3	CW50	CW50
1732	2.0	2.5	3	CW50	CW50
1735	2.2	2.5	3	CW50	CW50
1741	2.7	2.5	3	CW50	CW50
1747	3.2	2.5	3	CW50	CW50
1753	3.6	2.5	3	CW50	CW50
1759	4.1	2.5	3	CW50	CW50
1765 _T	4.5	---	3	---	CW50
1771 _T	5.0	---	3	---	CW50
1773 _T	5.2	---	3	---	CW50
2117	1.2	2.5	3	CW50	CW50
2121	1.6	2.5	3	CW50	CW50
2123	1.8	2.5	3	CW50	CW50
2125	2.0	2.5	3	CW50	CW50
2129	2.4	2.5	3	CW50	CW50
2132	2.7	2.5	3	CW50	CW50
2135	3.0	2.5	3	CW50	CW50
2141	3.7	2.5	3	CW45	CW50
2147	4.3	2.5	3	CW35	CW50
2153	4.9	2.5	3	CW35	CW50
2159	5.6	2.5	3	CW30	CW50
2165	6.2	2.5	3	LC25	CW50
2171	6.8	2.5	3	LC25	CW50
2173	7.0	2.5	3	LC25	CW50
2317	1.3	2.5	3	CW50	CW50
2321	1.8	2.5	3	CW50	CW50
2323	2.0	2.5	3	CW50	CW50
2325	2.3	2.5	3	CW50	CW50
2329	2.7	2.5	3	CW50	CW50
2332	3.1	2.5	3	CW50	CW50
2335	3.4	2.5	3	CW50	CW50
2341	4.2	2.5	3	CW45	CW50
2347	4.9	2.5	3	CW35	CW50
2353	5.6	2.5	3	CW30	CW50
2359	6.3	2.5	3	LC25	CW50
2365	7.0	2.5	3	LC25	CW50
2371	7.7	2.5	3	R20	CW50
2373	7.9	2.5	3	R20	CW50

Triple-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
		Annealed	Tempered	Annealed	Tempered
2517	1.5	2.5	3	CW50	CW50
2521	2.0	2.5	3	CW50	CW50
2523	2.3	2.5	3	CW50	CW50
2525	2.5	2.5	3	CW50	CW50
2529	3.1	2.5	3	CW50	CW50
2532	3.4	2.5	3	CW50	CW50
2535	3.8	2.5	3	CW50	CW50
2541	4.6	2.5	3	CW45	CW50
2547	5.4	2.5	3	CW35	CW50
2553	6.2	2.5	3	CW30	CW50
2559	7.0	2.5	3	LC25	CW50
2565	7.8	2.5	3	R20	CW50
2571	8.6	2.5	3	R20	CW50
2573	8.9	2.5	3	R20	CW50
2917	1.8	2.5	3	CW50	CW50
2921	2.4	2.5	3	CW50	CW50
2923	2.7	2.5	3	CW50	CW50
2925	3.1	2.5	3	CW50	CW50
2929	3.7	2.5	3	CW50	CW50
2932	4.2	2.5	3	CW50	CW50
2935	4.7	2.5	3	CW50	CW50
2941	5.6	2.5	3	CW45	CW50
2947	6.6	2.5	3	CW35	CW50
2953	7.5	2.5	3	CW30	CW50
2959	8.5	2.5	3	LC25	CW50
2965	9.5	2.5	3	R20	CW50
2971	10.4	3	3	LC25	CW50
2973	10.7	3	3	LC25	CW50
3217	2.0	2.5	3	CW50	CW50
3221	2.7	2.5	3	CW50	CW50
3223	3.1	2.5	3	CW50	CW50
3225	3.4	2.5	3	CW50	CW50
3229	4.2	2.5	3	CW50	CW50
3232	4.7	2.5	3	CW50	CW50
3235	5.3	2.5	3	CW45	CW50
3241	6.3	2.5	3	CW40	CW50
3247	7.4	2.5	3	CW35	CW50
3253	8.5	2.5	3	CW30	CW50
3259	9.6	2.5	3	LC25	CW50
3265	10.7	3.0	3	CW30	CW50
3271	11.8	3	3	LC25	CW50
3273	12.1	3	3	LC25	CW50

Continued on next page

(-) = Not Applicable

(T) = Tempered required due to aspect ratio.

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

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



Lifestyle Series Casement

Design Data

Triple-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ⁽¹⁾	
		Annealed	Tempered	Annealed	Tempered
3517	2.2	2.5	3	CW50	CW50
3521	3.0	2.5	3	CW50	CW50
3523	3.4	2.5	3	CW50	CW50
3525	3.8	2.5	3	CW50	CW50
3529	4.7	2.5	3	CW50	CW50
3532	5.3	2.5	3	CW45	CW50
3535	5.9	2.5	3	CW40	CW50
3541	7.1	2.5	3	CW35	CW50
3547	8.3	2.5	3	CW30	CW50
3553	9.5	2.5	3	LC25	CW50
3559	10.7	3	3	CW35	CW50
3565	11.9	3	3	CW30	CW50
3571	13.1	3	3	LC25	CW50
3573	13.5	3	3	LC25	CW50
4117	2.7	2.5	3	CW50	CW50
4121	3.7	2.5	3	CW45	CW50
4123	4.2	2.5	3	CW45	CW50
4125	4.6	2.5	3	CW45	CW50
4129	5.6	2.5	3	CW45	CW50
4132	6.3	2.5	3	CW40	CW50
4135	7.1	2.5	3	CW35	CW50
4141	8.5	2.5	3	CW30	CW50
4147	10.0	2.5	3	LC25	CW50
4153	11.5	3	3	CW35	CW50
4159	12.9	3	3	CW30	CW50
4165	14.4	3	3	CW30	CW50
4171	15.8	3	3	LC25	CW50
4173	16.3	3	3	LC25	CW50
4717	3.2	2.5	3	CW50	CW50
4721	4.3	2.5	3	CW35	CW50
4723	4.9	2.5	3	CW35	CW50
4725	5.4	2.5	3	CW35	CW50
4729	6.6	2.5	3	CW35	CW50
4732	7.4	2.5	3	CW35	CW50
4735	8.3	2.5	3	CW30	CW50
4741	10.0	2.5	3	LC25	CW50
4747	11.7	3	3	CW35	CW50
4753	13.4	3	3	CW30	CW50
4759	15.1	3	3	LC25	CW50
4765	16.8	3	3	LC25	CW50
4771	18.6	4	4	CW30	CW50
4773	19.1	4	4	CW30	CW50

Triple-Pane Fixed					
Unit	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ⁽¹⁾	
		Annealed	Tempered	Annealed	Tempered
5317	3.6	2.5	3	CW50	CW50
5321	4.9	2.5	3	CW35	CW50
5323	5.6	2.5	3	CW30	CW50
5325	6.2	2.5	3	CW30	CW50
5329	7.5	2.5	3	CW30	CW50
5332	8.5	2.5	3	CW30	CW50
5335	9.5	2.5	3	LC25	CW50
5341	11.5	3	3	CW35	CW50
5347	13.4	3	3	CW30	CW50
5353	15.4	3	3	LC25	CW50
5359	17.3	3	3	LC25	CW50
5365	19.3	4	4	CW30	CW50
5371	21.3	4	4	CW30	CW50
5373	21.9	4	4	CW30	CW50
5917	4.1	2.5	3	CW50	CW50
5921	5.6	2.5	3	CW30	CW50
5923	6.3	2.5	3	LC25	CW50
5925	7.0	2.5	3	LC25	CW50
5929	8.5	2.5	3	LC25	CW50
5932	9.6	2.5	3	LC25	CW50
5935	10.7	3	3	CW35	CW50
5941	12.9	3	3	CW30	CW50
5947	15.1	3	3	LC25	CW50
5953	17.3	3	3	LC25	CW50
5959	19.6	4	4	CW30	CW50
5965	21.8	4	4	CW30	CW50
5971	24.0	4	4	LC25	CW50
5973	24.7	4	4	LC25	CW50
7317 _T	5.2	---	3	---	CW50
7321	7.0	2.5	3	LC25	CW50
7323	7.9	2.5	3	R20	CW50
7325	8.9	2.5	3	R20	CW50
7329	10.7	3	3	LC25	CW50

(T) = Tempered required due to aspect ratio.

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

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



Lifestyle Series Casement

Detailed Product Description

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.
- 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).
- 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.
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is [1-3/4" (45mm) dual-pane] [2-3/16" (55mm) triple-pane, (2-1/4" (57mm) including hinged glass panel)].

Weatherstripping

- Dual weatherstripping.
 - Flexible santoprene material compressed between frame and sash for positive seal on all four sides.
 - Secondary thermoplastic vulcanizate (TPV) weatherstrip between edge of sash and frame [Dual-Pane: leaf-type on the vertical sides and bottom side, and Santoprene® bulb-type weatherstrip on the top side] [Triple-Pane: leaf-type on all four sides].

Glazing System

- Quality float glass complying with ASTM C 1036.
- High altitude glazing available.
- Silicone-glazed 11/16" [obscure] dual-seal insulating glass [[annealed] [tempered]] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon]].
-or-
- Triple-Pane Glazing System:
 - Exterior silicone-glazed 11/16" [obscure] dual-seal insulating glass, [[annealed] [tempered]] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon].
 - Interior hinged glass panel set in a [veneered fiberglass composite] [aluminum (advanced comfort)] frame finished to match interior (aluminum frames are veneered for stain finishes), fitted to sash with continuous gasket seal, clear [annealed] [tempered] glass.
 - Airspace between insulating glass and hinge glass panel is 1-1/32".

Exterior

- Exterior aluminum surfaces are finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
- Finish color [Standard [Black] [White] [Brown] [Fossil]] [Feature [Iron Ore] Wolf gray] [Classic White] [Almond] [Portobello] [Putty] [Brick Red] [Hartford Green]].
- Interior
- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen White] [Bright White] [stain1]].

Hardware

- Roto operator assembly
 - Steel worm gear sash operator with hardened gears.
 - Operator base to be zinc die cast with painted finish.
 - Operator linkage, hinge slide, and hinge arms are stainless steel.
 - Exposed fasteners are stainless steel.
 - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
- SureLock System — A single handle locking system which operates positive-acting arms that reach out and pull the sash into a locked position: one operating lock installed on units with lock-side frame dimension [Dual-pane ≤ 29"] [Triple-pane ≤ 41"], Unison lock system: two operating locks are installed on units with lock-side frame dimension [Dual-pane > 29"] [Triple-pane > 41"].
- Standard Integrated fold-away crank and lock handle finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel].

Optional Products

Grilles

- Simulated-Divided-Light [with optional spacer] (Dual-pane glazing)
 - 7/8" Grilles permanently bonded to the interior and exterior of glass.
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
 - Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain1]].
 - Exterior color to match the exterior cladding color.
- Simulated-Divided-Light with Grilles-Between-the-Glass (Triple-pane glazing)
 - 3/4" Grilles permanently bonded to the exterior of glass.
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
 - Exterior color to match the exterior cladding color.
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Interior color is [White] [Ivory] [Tan3] [Brickstone3] [Black] [Putty3] [Brown] [Harvest] [Cordovan].

– 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] [Top Row] [Cross] [Custom – Equally Divided].
 - Interior color is [White] [Ivory] [Tan3] [Brickstone3] [Black] [Putty3] [Brown] [Fossil] [Harvest] [Cordovan].
 - Exterior color [matched to the exterior cladding color] [White]4.

Flat Insect Screen

- InView™ Screens
 - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, [Champagne] [White] [Brown] [Black].
- or –
- Rolscreen® Soft-close Retractable Screen
 - InView™ Screen cloth, self-storing, rolling, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201 mounted behind overhead cover.
 - Cover finish is [factory prefinished paint1] [pine veneer wrapped over extruded aluminum with factory prefinished stain1].
 - Guides are aluminum extrusion with [pine veneer wrapped over extruded aluminum with factory prefinished stain1] [factory prefinished paint1].

Integrated Between-the-Glass Window Fashions (Triple-Pane glazing only)

- Slimshade® Blinds
 - 15 mm aluminum slat, bottom-up blinds with polyester cord ladder
 - Installed in sash between double glazing and interior hinged glass panel.
 - Operated with cordless operator or motorized with Insynctive® technology.
- or –
- Cellular Fabric Shades
 - 11/16" width, bottom-up shades with hidden polyester cord, spun bond Polyethylene Terephthalate (PET) cellular fabric.
 - Installed in sash between double glazing and interior hinged glass panel.
 - Operated with cordless operator or motorized with Insynctive® technology.

Hardware

- Optional factory applied limited opening hardware available for vent units in stainless steel; nominal 3" opening.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-17.

Sensors

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

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

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

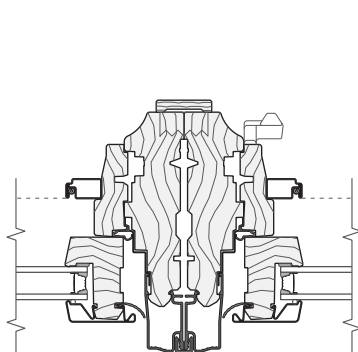
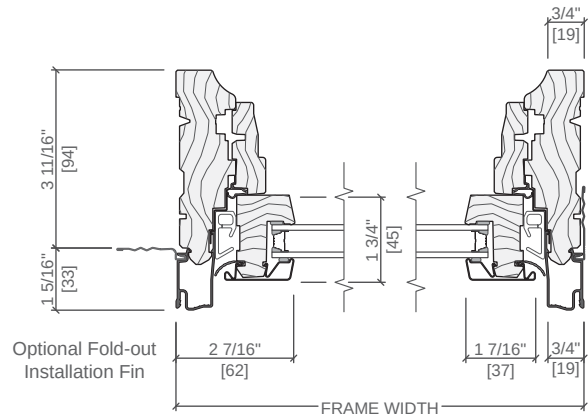
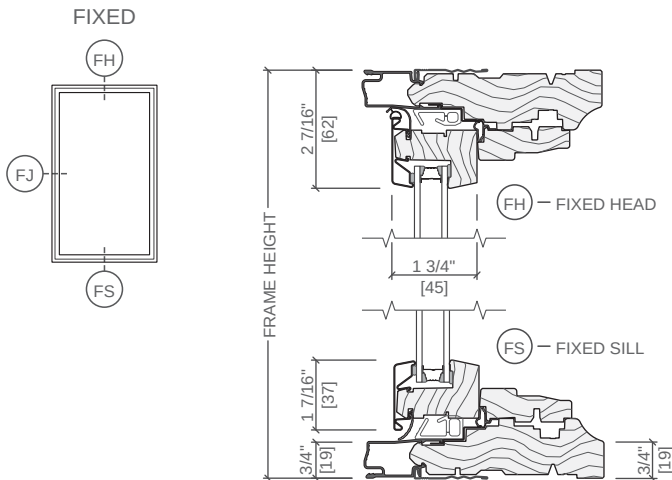
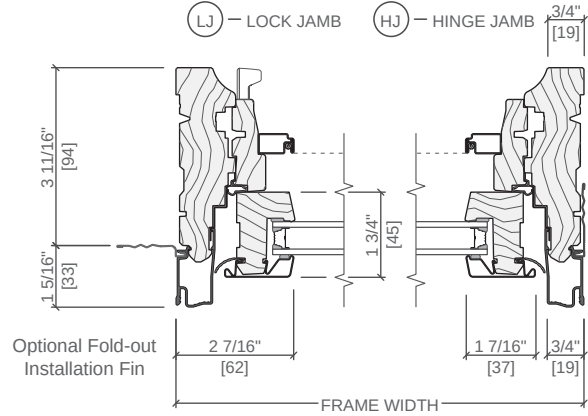
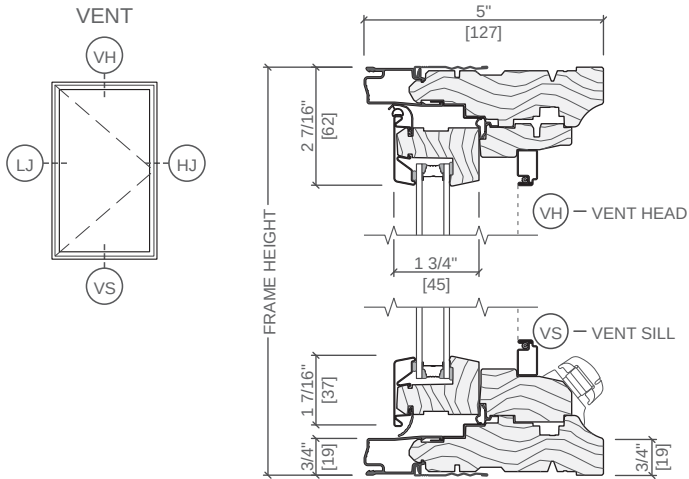
(3) Tan, brickstone and putty Interior GBG colors are available only with matching interior and exterior colors.

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

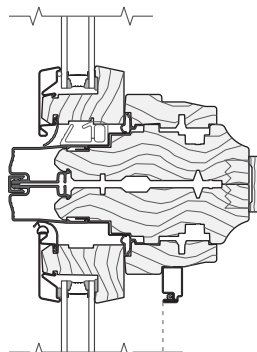


Lifestyle Series Casement

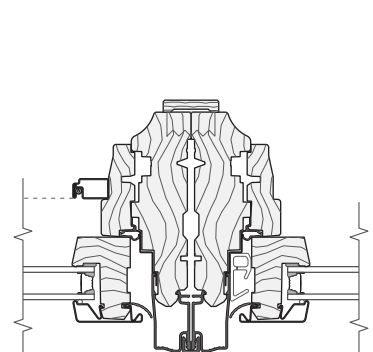
Unit Sections - Dual-Pane



VERTICAL JOINING MULLION
VENT / VENT



HORIZONTAL JOINING MULLION
FIXED / VENT



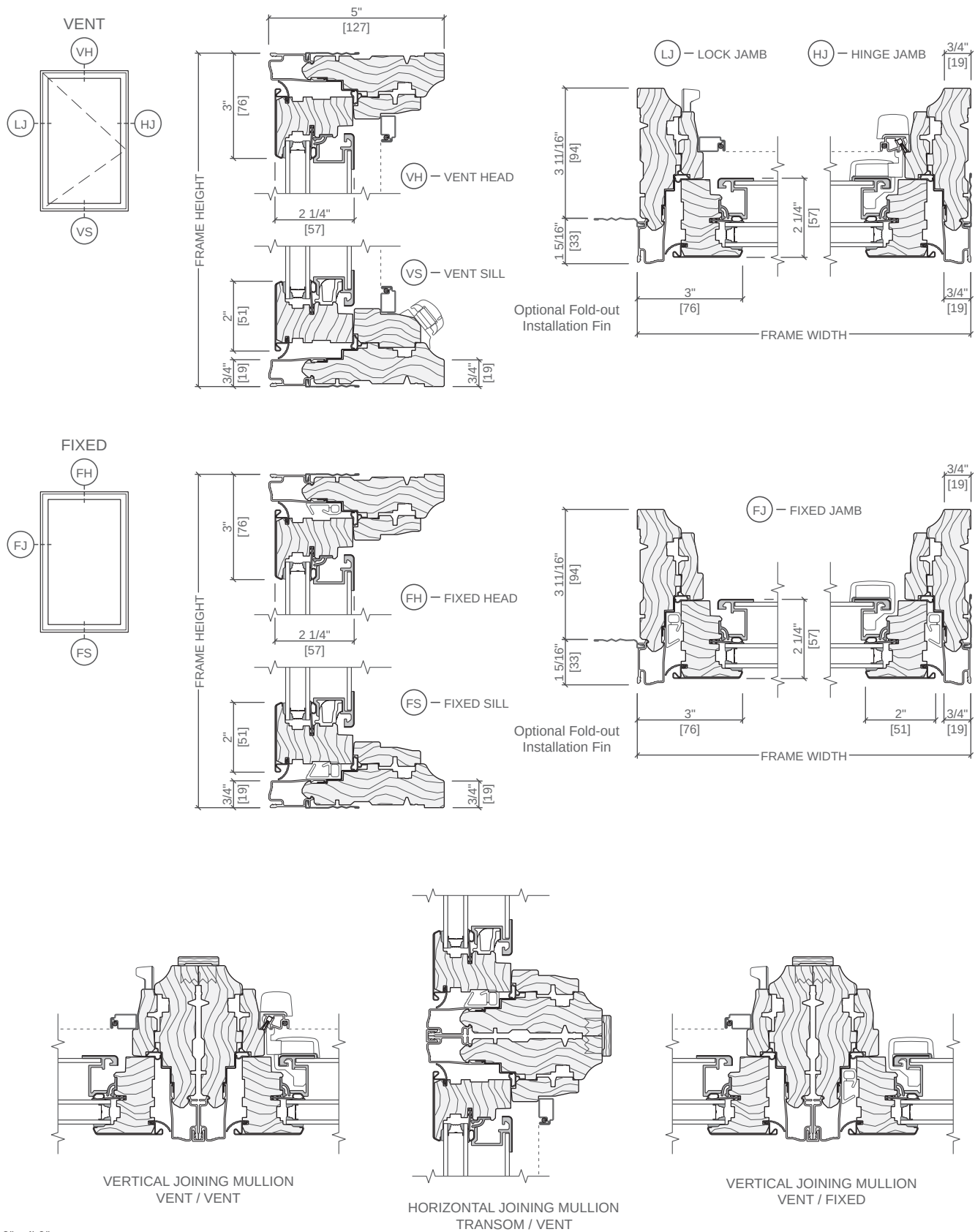
VERTICAL JOINING MULLION
VENT / FIXED

Scale 3" = 1' 0"

All dimensions are approximate.

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

Unit Sections - Triple-Pane



Scale 3" = 1' 0"

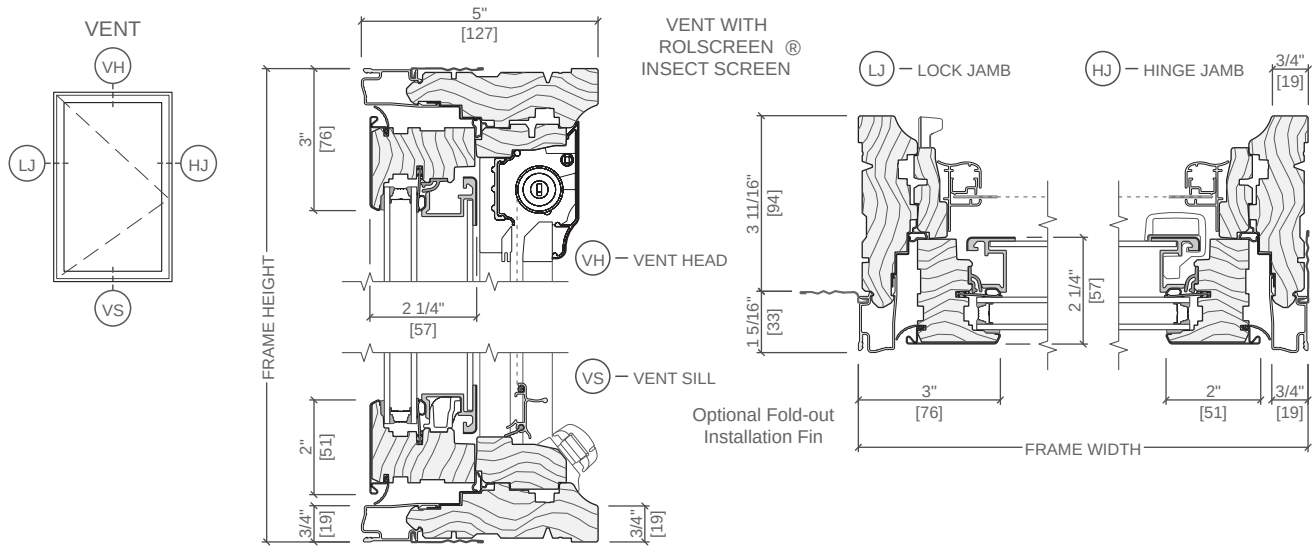
All dimensions are approximate.

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



Lifestyle Series Casement

Unit Sections - Triple-Pane



Scale 3" = 1' 0"
All dimensions are approximate.
See supporting document Combination Recommendations for mullion limitations and reinforcing requirements.