



FIXED WINDOW

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Pella® 350 Series Fixed Window

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FIXED WINDOW

BRAND SUMMARY



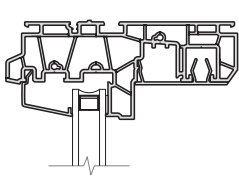
Pella® 350 Series Fixed Frame

windows feature an extruded, rigid PVC (polyvinyl chloride) frame with heat-fused mitered corners for a fully welded corner assembly. The SmoothSeam™ welded corners on the interior of the frame are virtually invisible. Fixed Windows meet industry standards for water infiltration and wind resistance and meet ENERGY STAR® guidelines with dual-pane or triple-pane insulated glass.

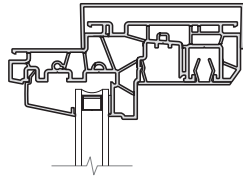
BLOCK FRAME DESIGN

4-1/2" Block or 3-1/4" Block Pocket Install

- 3-1/4" Block Pocket Install Frame allows a perfect fit into a 3-1/4" pocket when installed into an existing Double-Hung or Single-Hung wood frame from the interior.
- 4-1/2" block frame can be used in new construction block or concrete walls. They may also be used in replacement of old aluminum or steel frame windows or pocket replacement into wood frames from the exterior.
- The block frames include interior and exterior accessory grooves.
- Custom sizes are available in 1/8" increments - for a perfect fit.



4-1/2" Block Frame

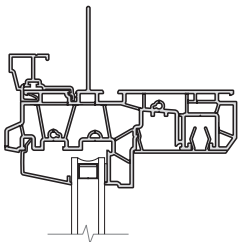


3-1/4" Block Pocket Install

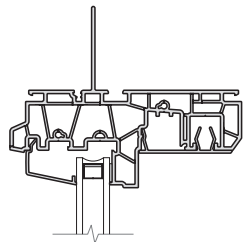
NAIL FIN FRAME DESIGN

With or Without Integrated J-Channel

- Continuous fin with welded corners adds a protective weather barrier and allows for hassle-free installation.
- The standard 4-1/2" frame depth includes interior and exterior accessory grooves.
- Nailing fin has a 1-7/16" setback from exterior face of window frame.
- Custom sizes are available in 1/8" increments - for a perfect fit.
- 4-9/16" and 6-9/16" factory applied primed or clear jamb extensions are available.



With J-Channel



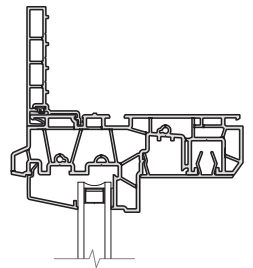
Without J-Channel



DOUBLE-WALL FLUSH FLANGE

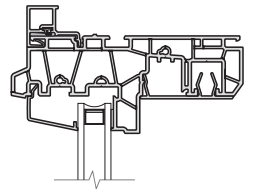
Replacement Frame Design

- The flush flange frame allows for easy replacement of old aluminum or steel frame windows without removing the existing frame head or jambs - typically used with stucco exteriors in southwest arid climates.
- The frame depth is 4-1/2" (overall wall depth of 4-1/16") includes interior accessory groove.
- Custom sizes are available in 1/8" increments - for a perfect fit.



INTEGRAL 5/8" FLANGE FRAME

- The integral 5/8" flange frame can be used in new construction block or concrete walls. Commonly used in Florida and often referred to as "Florida Flange" frame.
- The frame depth is 4-1/2" (overall wall depth of 3-7/8") includes interior accessory groove.
- Custom sizes are available in 1/8" increments - for a perfect fit.





FIXED WINDOW

PRODUCT SELECTION GUIDE

Size and Performance Data
Features and Options



Size and Performance Data

SIZES

Standard Sizes	S
Special Sizes Available Built on 1/8" Increments	O

FRAMES

Nail Fin Only	O
Nail Fin with J-Channel	O
4-1/2" Block	S
3-1/4" Block Pocket Install / Replacement	S
Double-Wall Flush Flange	O
Integral 5/8" Flange	O

PERFORMANCE₁

Standard Performance

Meets or Exceeds AAMA/WDMA Ratings	R-PG30 to C-PG60
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	.05
Design Pressure	30-60 psf
Water Penetration Resistance	4.5 to 9.0 psf

Performance Upgrade

Meets or Exceeds AAMA/WDMA Ratings	R-PG30 to C-PG60
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	.05
Design Pressure	30-60 psf
Water Penetration Resistance	4.5 to 9.0 psf

Other Performance Criteria

Forced Entry Resistance (Minimum Security Grade) ₂	40
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Features and Options

GLAZING (INSULATING GLASS)

Glazing Type

Dual-pane insulating glass	S
Triple-pane insulating glass	O

Insulated Glass Options / Low-E Types

Advanced Low-E	S
NaturalSun Low-E	O
SunDefense™ Low-E ₃	O
Gray Low-E ₃	O
Bronze-tinted Advanced Low-E ₃	O

Additional Glazing Options

Annealed glass	S
Tempered glass	O
Obscure glass ₄	O
Noise reduction glass (STC 3mm/5mm combination) ₃	O
Noise reduction laminated glass (non-impact) ₃	O

Gas Fill / High Altitude

Argon	S
High altitude	O
High altitude with argon ₃	O

INTERIOR / EXTERIOR COLOR

White	S
Almond	O
Brown exterior/White interior	O

GRILLES

Grilles-Between-the-Glass

Traditional, Prairie, Top-Row and Custom - Equally Divided	O
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Simulated-Divided-Light Grilles₁ (without spacer)

Traditional, Prairie, Top-Row and Custom - Equally Divided	O
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S = Standard; O = Optional

(1) Published performance data is for single unit only. Combinations require reinforcing mullion between units.

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

(3) Not available with triple-pane glazing.

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



FIXED WINDOW

PRODUCT SELECTION GUIDE

Sound and Transmission Class



Sound Transmission Class and Outdoor-Indoor Transmission Class

Frame Size Tested ₁	Glazing System				STC Rating	OITC Rating
	Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
FIXED WINDOW – DUAL PANE INSULATING GLASS						
48" x 60"	11/16"	3mm	3mm	–	26	22
48" x 60"	11/16"	3mm	5mm	–	30	25
FIXED WINDOW – NON-IMPACT LAMINATED INSULATING GLASS						
48" x 60"	1"	5mm	10mm PVB	–	36	30
FIXED WINDOW – HURRICANESHIELD IMPACT-RESISTANT LAMINATED INSULATING GLASS						
48" x 60"	1"	5 mm	11.7mm SGP ₂	–	35	31
48" x 60"	1"	5mm	11.7mm PVB	–	36	31
FIXED WINDOW – TRIPLE-PANE INSULATING GLASS						
48" x 60"	1-1/4"	3mm	3mm	3mm	27	22

NOTE: The presence of Low-E or argon have negligible effect on sound attenuation characteristics.

(P) = Pending

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

(2) SGP used on units with frame area > 18 ft².



FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

11/16" Insulating Glass with 3mm Glass

1" Insulating Glass with 5mm Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone				ER	Zone			
FIXED – 11/16" IG										N	NC	SC	S		1	2	3	
11/16"	Advanced Low-E IG	PEL-N-185-00006-00001	3	3	air	0.29	0.32	60	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00078-00001				0.31	0.29	54	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00146-00001				0.29	0.29	54	58									
11/16"	Advanced Low-E IG	PEL-N-185-00044-00001	3	3	argon	0.26	0.32	60	61					26				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00112-00001				0.27	0.29	54	61					23				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00178-00001				0.26	0.29	54	61					24				
11/16"	NaturalSun Low-E IG	PEL-N-185-00007-00001	3	3	air	0.30	0.58	67	57					36				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00079-00001				0.32	0.52	60	57					30				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00147-00001				0.30	0.52	60	57					32				
11/16"	NaturalSun Low-E IG	PEL-N-185-00045-00001	3	3	argon	0.27	0.58	67	61					39				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00113-00001				0.28	0.53	60	61					35				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00179-00001				0.27	0.53	60	61					37				
11/16"	SunDefense™ Low-E IG	PEL-N-185-00008-00001	3	3	air	0.29	0.24	55	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00080-00001				0.31	0.22	49	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00148-00001				0.29	0.22	49	58									
11/16"	SunDefense Low-E IG	PEL-N-185-00046-00001	3	3	argon	0.25	0.23	55	62					22				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00114-00001				0.27	0.21	49	62					18				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00180-00001				0.25	0.21	49	62					21				
FIXED – 1" IG																		
1"	Advanced Low-E IG	PEL-N-185-00016-00001	5	5	air	0.30	0.31	59	57									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00088-00001				0.30	0.28	52	57									
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00156-00001				0.30	0.28	52	57									
1"	Advanced Low-E IG	PEL-N-185-00054-00001	5	5	argon	0.26	0.31	59	60					25				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00122-00001				0.26	0.28	52	60					23				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00188-00001				0.26	0.28	52	60					23				
1"	NaturalSun Low-E IG	PEL-N-185-00017-00001	5	5	air	0.31	0.56	66	56					33				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00089-00001				0.31	0.51	59	56					30				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00157-00001				0.31	0.51	59	56					30				
1"	NaturalSun Low-E IG	PEL-N-185-00055-00001	5	5	argon	0.27	0.56	66	60					38				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00123-00001				0.27	0.51	59	60					35				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00189-00001				0.27	0.51	59	60					35				
1"	SunDefense™ Low-E IG	PEL-N-185-00018-00001	5	5	air	0.29	0.24	54	57									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00090-00001				0.29	0.21	49	57									
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00158-00001				0.29	0.21	49	57									
1"	SunDefense Low-E IG	PEL-N-185-00056-00001	5	5	argon	0.26	0.23	54	61					20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00124-00001				0.26	0.21	49	61					19				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00190-00001				0.26	0.21	49	61					19				

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.

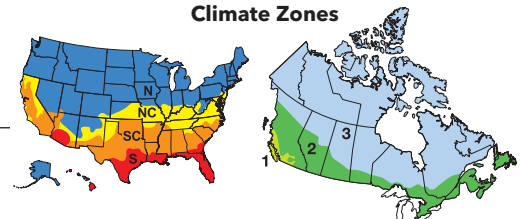
ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

Based on unit size, some products will use 2.5mm glass that may have improved glazing performance from what is shown.

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

Climate Zones





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

Triple-Pane Insulating Glass

11/16" Insulating Glass with 3mm/5mm Glass



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂			
											Zone				ER	Zone		
TRIPLE-PANE											N	NC	SC	S		1	2	3
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-185-00023-00001	3	3	3	air	0.18	0.27	46	70					33			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00095-00001					0.19	0.24	42	70					30			
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-185-00061-00001	3	3	3	argon	0.15	0.27	46	74					36			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00129-00001					0.16	0.24	42	74					33			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-185-00024-00001	3	3	3	air	0.24	0.51	62	65					39			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00096-00001					0.25	0.46	55	65					35			
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-185-00062-00001	3	3	3	argon	0.21	0.51	62	68					43			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00130-00001					0.22	0.46	55	68					39			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-185-00025-00001	5	5	5	air	0.18	0.26	45	69					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00097-00001					0.19	0.24	40	69					30			
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-185-00063-00001	5	5	5	argon	0.15	0.26	45	72					36			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00131-00001					0.16	0.24	40	72					33			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-185-00026-00001	5	5	5	air	0.24	0.48	60	64					37			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00098-00001					0.25	0.44	54	64					34			
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-185-00064-00001	5	5	5	argon	0.21	0.48	60	66					41			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00132-00001					0.22	0.44	54	66					38			
FIXED 11/16" IG WITH 3MM/5MM GLASS																		
11/16"	Advanced Low-E IG	PEL-N-185-00011-00001	3		5	air	0.31	0.32	59	55								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00083-00001					0.35	0.29	53	55								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00151-00001					0.31	0.29	53	55								
11/16"	Advanced Low-E IG	PEL-N-185-00049-00001	3		5	argon	0.26	0.31	59	59					25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00117-00001					0.30	0.28	53	59								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00183-00001					0.26	0.28	53	59					23			
11/16"	NaturalSun Low-E IG	PEL-N-185-00012-00001	3		5	air	0.32	0.56	67	54					32			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00084-00001					0.36	0.51	60	54								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00152-00001					0.32	0.51	60	54					29			
11/16"	NaturalSun Low-E IG	PEL-N-185-00050-00001	3		5	argon	0.27	0.56	67	58					38			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00118-00001					0.31	0.51	60	58					30			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00184-00001					0.27	0.51	60	58					35			
11/16"	SunDefense™ Low-E IG	PEL-N-185-00013-00001	3		5	air	0.31	0.24	55	55								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00085-00001					0.35	0.22	49	55								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00153-00001					0.31	0.22	49	55								
11/16"	SunDefense Low-E IG	PEL-N-185-00051-00001	3		5	argon	0.26	0.24	55	59					21			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00119-00001					0.30	0.22	49	59								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00185-00001					0.26	0.22	49	59					20			

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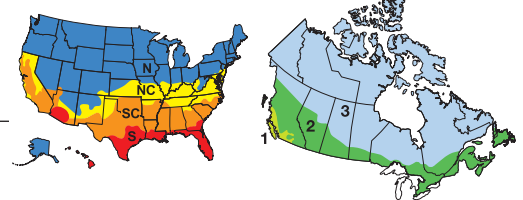
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Climate Zones





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂			
										Zone	ER	Zone					
TINTED GLAZING – 11/16" IG										N	NC	SC	S		1	2	3
11/16"	Bronze Advanced Low-E IG	PEL-N-185-00010-00001	3	3	air	0.29	0.31	44	58								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00082-00001				0.31	0.28	40	58								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00150-00001				0.29	0.28	40	58								
11/16"	Bronze Advanced Low-E IG	PEL-N-185-00048-00001	3	3	argon	0.26	0.31	44	61					25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00116-00001				0.27	0.28	40	61					22			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00182-00001				0.26	0.28	40	61					23			
11/16"	Gray Low-E IG	PEL-N-185-00009-00001	3	3	air	0.30	0.22	34	57								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00081-00001				0.32	0.20	31	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00149-00001				0.30	0.20	31	57								
11/16"	Gray Low-E IG	PEL-N-185-00047-00001	3	3	argon	0.26	0.22	34	61					20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00115-00001				0.28	0.20	31	61					16			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00181-00001				0.26	0.20	31	61					19			
TINTED GLAZING – 1" IG																	
1"	Bronze Advanced Low-E IG	PEL-N-185-00020-00001	5	5	air	0.30	0.28	38	57								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00092-00001				0.30	0.25	34	57								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00160-00001				0.30	0.25	34	57								
1"	Bronze Advanced Low-E IG	PEL-N-185-00058-00001	5	5	argon	0.26	0.28	38	60					23			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00126-00001				0.26	0.25	34	60					22			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00192-00001				0.26	0.25	34	60					22			
1"	Gray Low-E IG	PEL-N-185-00019-00001	5	5	air	0.30	0.21	33	56								
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00091-00001				0.30	0.20	30	56								
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00159-00001				0.30	0.20	30	56								
1"	Gray Low-E IG	PEL-N-185-00057-00001	5	5	argon	0.27	0.21	33	60					18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00125-00001				0.27	0.19	30	60					17			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00191-00001				0.27	0.19	30	60					17			

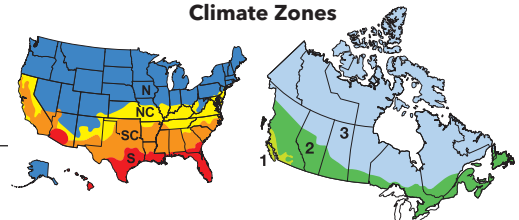
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.
 ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

Based on unit size, some products will use 2.5mm glass that may have improved glazing performance from what is shown.
 See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.

Climate Zones





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

Non-Impact Laminate



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone				ER	Zone			
FIXED – NON-IMPACT LAMINATE										N	NC	SC	S		1	2	3	
1"	Advanced Low-E PVB IG	PEL-N-185-00273-00001	5	10	air	0.28	0.31	0.57	58						20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00287-00001				0.28	0.28	0.51	58						18			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00315-00001				0.28	0.28	0.51	58						18			
1"	Advanced Low-E PVB IG	PEL-N-185-00266-00001	5	10	argon	0.25	0.30	0.57	62						23			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00280-00001				0.25	0.27	0.51	62						22			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00308-00001				0.25	0.27	0.51	62						22			
1"	NaturalSun Low-E PVB IG	PEL-N-185-00276-00001	5	10	air	0.29	0.51	0.65	57						30			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00290-00001				0.29	0.46	0.58	57						28			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00318-00001				0.29	0.46	0.58	57						28			
1"	NaturalSun Low-E PVB IG	PEL-N-185-00269-00001	5	10	argon	0.26	0.52	0.65	61						35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00283-00001				0.26	0.47	0.58	61						32			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00311-00001				0.26	0.47	0.58	61						32			
1"	SunDefense™ Low-E PVB IG	PEL-N-185-00275-00001	5	10	air	0.28	0.24	0.53	58						16			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00289-00001				0.28	0.21	0.47	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00317-00001				0.28	0.21	0.47	58									
1"	SunDefense Low-E PVB IG	PEL-N-185-00268-00001	5	10	argon	0.24	0.23	0.53	62						20			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00282-00001				0.24	0.21	0.47	62						19			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00310-00001				0.24	0.21	0.47	62						19			
FIXED – NON-IMPACT LAMINATE TINTED GLASS																		
1"	Bronze Advanced Low-E PVB IG	PEL-N-185-00278-00001	5	10	air	0.28	0.29	0.35	58						19			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00292-00001				0.28	0.26	0.31	58						17			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00320-00001				0.28	0.26	0.31	58						17			
1"	Bronze Advanced Low-E PVB IG	PEL-N-185-00271-00001	5	10	argon	0.25	0.29	0.35	62						23			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00285-00001				0.25	0.27	0.31	62						22			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00313-00001				0.25	0.27	0.31	62						22			
1"	Gray Advanced Low-E PVB IG	PEL-N-185-00272-00001	5	10	air	0.29	0.21	0.32	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00286-00001				0.29	0.19	0.29	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00314-00001				0.29	0.19	0.29	58									
1"	Gray Advanced Low-E PVB IG	PEL-N-185-00265-00001	5	10	argon	0.25	0.21	0.32	61						18			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00279-00001				0.25	0.19	0.29	61						17			
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00307-00001				0.25	0.19	0.29	61						17			

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
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(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.

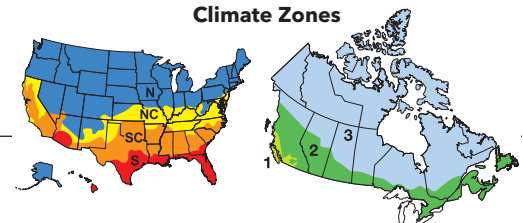
ENERGY STAR® values are updated to 2015 (Version 6) criteria.

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Climate Zones





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone				ER	Zone			
FIXED – 11/16" IG										N	NC	SC	S	1			2	3
11/16"	Advanced Low-E IG	PEL-N-193-00006-00001	3	3	air	0.29	0.32	60	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00058-00001				0.31	0.29	54	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00110-00001				0.29	0.29	54	58									
11/16"	Advanced Low-E IG	PEL-N-193-00032-00001	3	3	argon	0.25	0.32	60	62						27			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00084-00001				0.27	0.29	54	62						23			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00130-00001				0.25	0.29	54	62						25			
11/16"	NaturalSun Low-E IG	PEL-N-193-00007-00001	3	3	air	0.30	0.58	67	57						36			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00059-00001				0.32	0.52	60	57						30			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00111-00001				0.30	0.52	60	57						32			
11/16"	NaturalSun Low-E IG	PEL-N-193-00033-00001	3	3	argon	0.26	0.58	67	61						41			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00085-00001				0.28	0.53	60	61						35			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00131-00001				0.26	0.53	60	61						38			
11/16"	SunDefense™ Low-E IG	PEL-N-193-00008-00001	3	3	air	0.29	0.24	55	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00060-00001				0.31	0.22	49	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00112-00001				0.29	0.22	49	58									
11/16"	SunDefense Low-E IG	PEL-N-193-00034-00001	3	3	argon	0.25	0.23	55	62						22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00086-00001				0.27	0.21	49	62						18			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00132-00001				0.25	0.21	49	62						21			
FIXED – 1" IG																		
1"	Advanced Low-E IG	PEL-N-193-00016-00001	5	5	air	0.29	0.31	59	57									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00068-00001				0.29	0.28	52	57									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00120-00001				0.29	0.28	52	57									
1"	Advanced Low-E IG	PEL-N-193-00042-00001	5	5	argon	0.26	0.31	59	60						25			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00094-00001				0.26	0.28	52	60						23			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00140-00001				0.26	0.28	52	60						23			
1"	NaturalSun Low-E IG	PEL-N-193-00017-00001	5	5	air	0.30	0.56	66	56						35			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00069-00001				0.30	0.51	59	56						32			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00121-00001				0.30	0.51	59	56						32			
1"	NaturalSun Low-E IG	PEL-N-193-00043-00001	5	5	argon	0.27	0.56	66	60						38			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00095-00001				0.27	0.51	59	60						35			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00141-00001				0.27	0.51	59	60						35			
1"	SunDefense™ Low-E IG	PEL-N-193-00018-00001	5	5	air	0.29	0.24	54	57									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00070-00001				0.29	0.21	49	57									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00122-00001				0.29	0.21	49	57									
1"	SunDefense Low-E IG	PEL-N-193-00044-00001	5	5	argon	0.25	0.23	54	61						22			
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00096-00001				0.25	0.21	49	61						21			
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00142-00001				0.25	0.21	49	61						21			

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

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(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500.

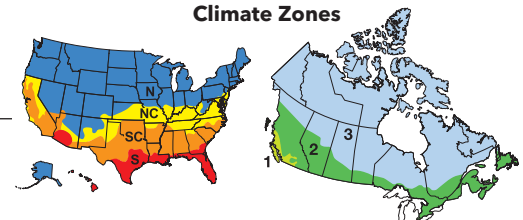
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Climate Zones





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown							
			Ext.	Mid.	Int.		U-Factor	SHGC	VLT%	CR	U. S.				Canada ₂			
											Zone				ER	Zone		
TRIPLE-PANE											N	NC	SC	S		1	2	3
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-193-00023-00001	3	3	3	air	0.18	0.27	46	66	<div></div>	<div></div>	<div></div>	<div></div>	33	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00075-00001					0.19	0.24	42	66	<div></div>	<div></div>	<div></div>	<div></div>	30	<div></div>	<div></div>	<div></div>
1-1/4"	Advanced Low-E Triple-pane IG	PEL-N-193-00049-00001	3	3	3	argon	0.15	0.27	46	74	<div></div>	<div></div>	<div></div>	<div></div>	36	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00101-00001					0.15	0.24	42	74	<div></div>	<div></div>	<div></div>	<div></div>	35	<div></div>	<div></div>	<div></div>
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-193-00024-00001	3	3	3	air	0.23	0.51	62	65	<div></div>	<div></div>	<div></div>	<div></div>	40	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00076-00001					0.25	0.46	55	65	<div></div>	<div></div>	<div></div>	<div></div>	35	<div></div>	<div></div>	<div></div>
1-1/4"	NaturalSun Low-E Triple-pane IG	PEL-N-193-00050-00001	3	3	3	argon	0.20	0.51	62	67	<div></div>	<div></div>	<div></div>	<div></div>	44	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00102-00001					0.21	0.46	55	67	<div></div>	<div></div>	<div></div>	<div></div>	40	<div></div>	<div></div>	<div></div>
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-193-00025-00001	5	5	5	air	0.18	0.26	45	69	<div></div>	<div></div>	<div></div>	<div></div>	32	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00077-00001					0.19	0.24	40	69	<div></div>	<div></div>	<div></div>	<div></div>	30	<div></div>	<div></div>	<div></div>
1-7/16"	Advanced Low-E Triple-pane IG	PEL-N-193-00051-00001	5	5	5	argon	0.15	0.26	45	72	<div></div>	<div></div>	<div></div>	<div></div>	36	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00103-00001					0.15	0.24	40	72	<div></div>	<div></div>	<div></div>	<div></div>	35	<div></div>	<div></div>	<div></div>
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-193-00026-00001	5	5	5	air	0.23	0.48	60	64	<div></div>	<div></div>	<div></div>	<div></div>	39	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00078-00001					0.24	0.44	54	64	<div></div>	<div></div>	<div></div>	<div></div>	35	<div></div>	<div></div>	<div></div>
1-7/16"	NaturalSun Low-E Triple-pane IG	PEL-N-193-00052-00001	5	5	5	argon	0.20	0.48	60	67	<div></div>	<div></div>	<div></div>	<div></div>	42	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00104-00001					0.21	0.44	54	67	<div></div>	<div></div>	<div></div>	<div></div>	39	<div></div>	<div></div>	<div></div>
FIXED 11/16" IG WITH 3MM/5MM GLASS																		
11/16"	Advanced Low-E IG	PEL-N-193-00011-00001	3		5	air	0.31	0.32	59	54	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00063-00001					0.35	0.29	53	54	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00115-00001					0.31	0.29	53	54	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
11/16"	Advanced Low-E IG	PEL-N-193-00037-00001	3		5	argon	0.26	0.31	59	58	<div></div>	<div></div>	<div></div>	<div></div>	25	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00089-00001					0.30	0.28	53	58	<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00135-00001					0.26	0.28	53	58	<div></div>	<div></div>	<div></div>	<div></div>	23	<div></div>	<div></div>	<div></div>
11/16"	NaturalSun Low-E IG	PEL-N-193-00012-00001	3		5	air	0.32	0.56	67	54	<div></div>	<div></div>	<div></div>	<div></div>	32	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00064-00001					0.36	0.51	60	54	<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00116-00001					0.32	0.51	60	54	<div></div>	<div></div>	<div></div>	<div></div>	29	<div></div>	<div></div>	<div></div>
11/16"	NaturalSun Low-E IG	PEL-N-193-00038-00001	3		5	argon	0.27	0.56	67	58	<div></div>	<div></div>	<div></div>	<div></div>	38	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00090-00001					0.31	0.51	60	58	<div></div>	<div></div>	<div></div>	<div></div>	30	<div></div>	<div></div>	<div></div>
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00136-00001					0.27	0.51	60	58	<div></div>	<div></div>	<div></div>	<div></div>	35	<div></div>	<div></div>	<div></div>
11/16"	SunDefense™ Low-E IG	PEL-N-193-00013-00001	3		5	air	0.31	0.24	55	55	<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00065-00001					0.35	0.22	49	55	<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00117-00001					0.31	0.22	49	55	<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>
11/16"	SunDefense Low-E IG	PEL-N-193-00039-00001	3		5	argon	0.26	0.24	55	59	<div></div>	<div></div>	<div></div>	<div></div>	21	<div></div>	<div></div>	<div></div>
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00091-00001					0.29	0.22	49	59	<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00137-00001					0.26	0.22	49	59	<div></div>	<div></div>	<div></div>	<div></div>	20	<div></div>	<div></div>	<div></div>

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 SHGC = Solar Heat Gain Coefficient
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 CR = Condensation Resistance
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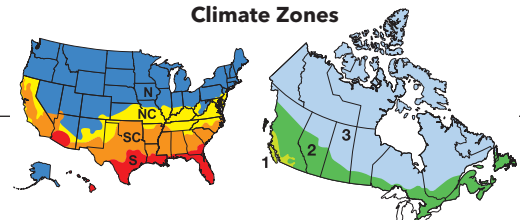
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Climate Zones





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

3-1/4" Block Pocket Replacement



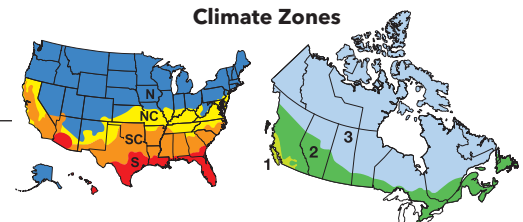
Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone				ER	Zone			
TINTED GLAZING – 11/16" IG										N	NC	SC	S		1	2	3	
11/16"	Bronze Advanced Low-E IG	PEL-N-193-00010-00001	3	3	air	0.29	0.31	44	58									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00062-00001				0.31	0.28	40	58									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00114-00001				0.29	0.28	40	58									
11/16"	Bronze Advanced Low-E IG	PEL-N-193-00036-00001	3	3	argon	0.25	0.31	44	62					26				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00088-00001				0.27	0.28	40	62					22				
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00134-00001				0.25	0.28	40	62					25				
11/16"	Gray Low-E IG	PEL-N-193-00009-00001	3	3	air	0.30	0.22	34	57									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00061-00001				0.32	0.20	31	57									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00113-00001				0.30	0.20	31	57									
11/16"	Gray Low-E IG	PEL-N-193-00035-00001	3	3	argon	0.26	0.22	34	61					20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00087-00001				0.28	0.20	31	61					16				
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00133-00001				0.26	0.20	31	61					19				
TINTED GLAZING – 1" IG																		
1"	Bronze Advanced Low-E IG	PEL-N-193-00020-00001	5	5	air	0.29	0.28	38	57									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00072-00001				0.29	0.25	34	57									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00124-00001				0.29	0.25	34	57									
1"	Bronze Advanced Low-E IG	PEL-N-193-00046-00001	5	5	argon	0.26	0.28	38	60					23				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00098-00001				0.26	0.25	34	60					22				
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00144-00001				0.26	0.25	34	60					22				
1"	Gray Low-E IG	PEL-N-193-00019-00001	5	5	air	0.30	0.21	33	56									
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00071-00001				0.30	0.20	30	56									
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00123-00001				0.30	0.20	30	56									
1"	Gray Low-E IG	PEL-N-193-00045-00001	5	5	argon	0.26	0.21	33	60					19				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-193-00097-00001				0.26	0.19	30	60					18				
	with 7/8" Simulated Divided Light grilles	PEL-N-193-00143-00001				0.26	0.19	30	60					18				

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 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

Based on unit size, some products will use 2.5mm glass that may have improved glazing performance from what is shown.
 See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.





FIXED WINDOW

HURRICANESHIELD® IMPACT-RESISTANT GLAZING

GLAZING PERFORMANCE - TOTAL UNIT



Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone	ER	Zone						
VENT										N	NC	SC	S		1	2	3	
1"	Advanced Low-E IG PVB	PEL-N-185-00224-00001	5	12	air	0.30	0.31	56	56					20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00248-00001				0.33	0.28	51	57					15				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00260-00001				0.30	0.28	51	56					18				
1"	Advanced Low-E IG PVB	PEL-N-185-00218-00001	5	12	argon	0.26	0.30	56	60					25				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00242-00001				0.29	0.28	51	60					20				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00254-00001				0.26	0.28	51	60					23				
1"	SunDefense™ Low-E IG PVB	PEL-N-185-00226-00001	5	12	air	0.29	0.24	52	57					17				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00250-00001				0.33	0.22	47	57					11				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00262-00001				0.29	0.22	47	57					16				
1"	SunDefense Low-E IG PVB	PEL-N-185-00220-00001	5	12	argon	0.25	0.23	52	61					22				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00244-00001				0.28	0.21	47	61					17				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00256-00001				0.25	0.21	47	61					21				
VENT – WITH OBSCURE GLAZING																		
1"	Advanced Low-E IG PVB	PEL-N-185-00203-00001	5	12	air	0.30	0.30	40	56					20				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00211-00001				0.33	0.27	36	56					14				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00215-00001				0.30	0.27	36	56					18				
1"	Advanced Low-E IG PVB	PEL-N-185-00201-00001	5	12	argon	0.26	0.30	40	60					25				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00209-00001				0.29	0.27	36	60					19				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00213-00001				0.26	0.27	36	60					23				
1"	SunDefense™ Low-E IG PVB	PEL-N-185-00204-00001	5	12	air	0.29	0.23	37	57					17				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00212-00001				0.33	0.21	33	57					11				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00216-00001				0.29	0.21	33	57					16				
1"	SunDefense Low-E IG PVB	PEL-N-185-00202-00001	5	12	argon	0.25	0.23	37	60					22				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00210-00001				0.28	0.21	33	60					17				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00214-00001				0.25	0.21	33	60					21				
VENT – WITH TINTED GLAZING																		
1"	Bronze Advanced Low-E IG PVB	PEL-N-185-00225-00001	5	12	air	0.30	0.29	34	56					19				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00249-00001				0.33	0.26	30	57					13				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00261-00001				0.30	0.26	30	56					17				
1"	Bronze Advanced Low-E IG PVB	PEL-N-185-00219-00001	5	12	argon	0.26	0.29	34	60					24				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00243-00001				0.29	0.26	30	60					18				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00255-00001				0.26	0.26	30	60					22				
1"	Gray Advanced Low-E IG PVB	PEL-N-185-00223-00001	5	12	air	0.30	0.22	32	56					15				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00247-00001				0.33	0.20	29	56					10				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00259-00001				0.30	0.20	29	56					14				
1"	Gray Advanced Low-E IG PVB	PEL-N-185-00217-00001	5	12	argon	0.26	0.21	32	60					19				
	with 3/4" or 1" grilles-between-the-glass	PEL-N-185-00241-00001				0.29	0.19	29	60					14				
	with 7/8" Simulated Divided Light grilles	PEL-N-185-00253-00001				0.26	0.19	29	60					18				

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.

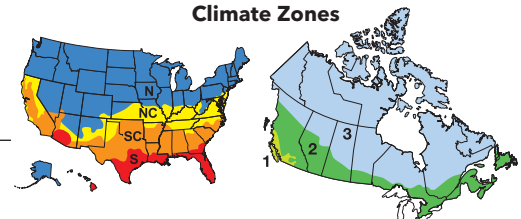
ENERGY STAR® values are updated to 2015 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2015 initiative.

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Climate Zones





FIXED WINDOW

HURRICANESHIELD® IMPACT-RESISTANT

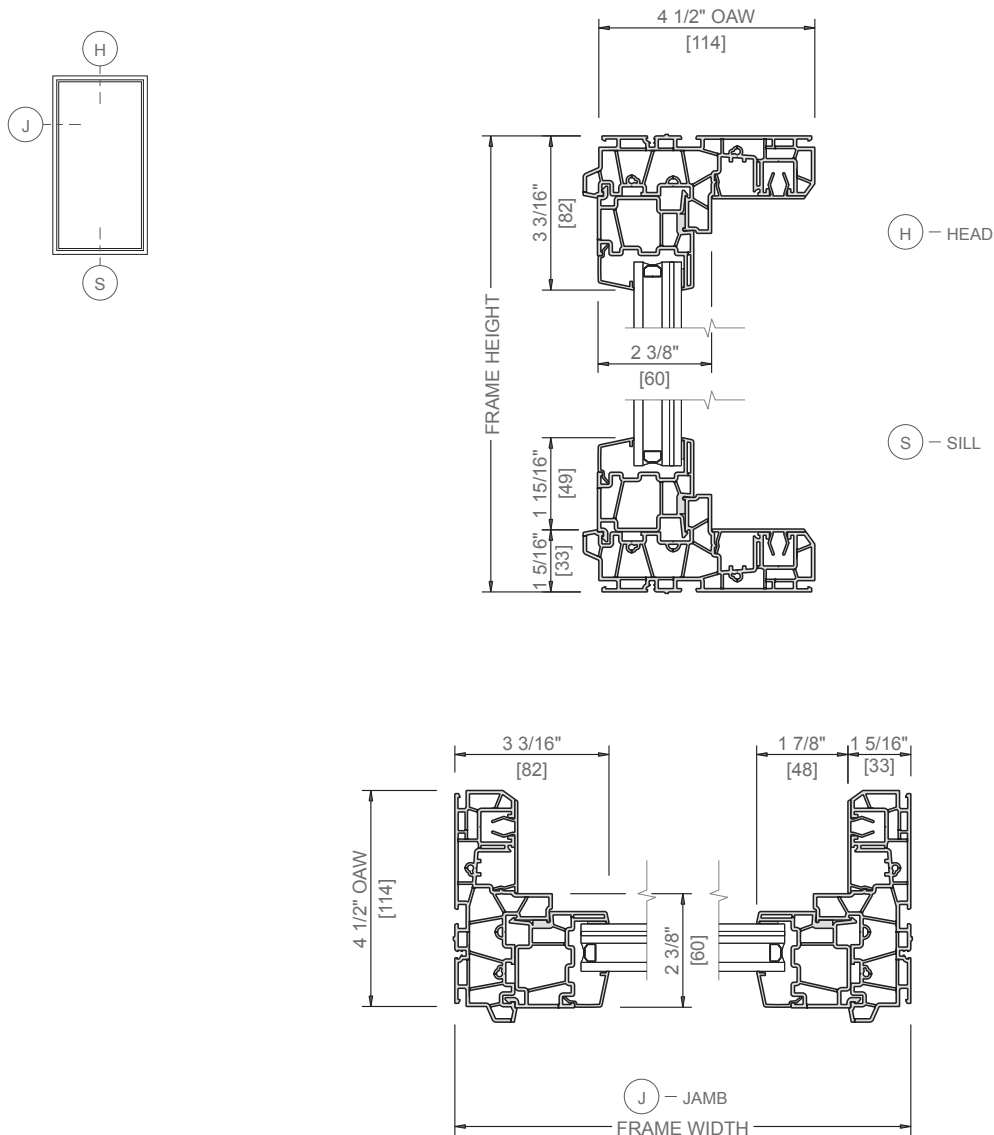
Fixed Window



For a complete list of the HurricaneShield Impact-Resistant Glazing ratings, refer to the Coastal and High Winds section.

Certification Results₁

Product	Design Pressure Large Missile Rating D		Hallmark Certified	Miami-Dade County Approved (NOA)	Florida Product Approval System (FPAS)	Texas Department of Insurance (TDI)
	Minimum	Maximum				
FIXED UNITS						
1" Insulated Glass PVB	+ 60 / - 65	+ 60 / - 65	411-H-1408	12-0924.02	FL15939	WIN-1739
1" Insulated Glass SGP	+ 60 / - 65	+ 60 / - 65	411-H-1408	12-0924.02	FL15939	WIN-1739

UNIT SECTIONS

(1) Published performance data is for single unit only. See Design Data pages in this section for specific product performance class and grade values.

All sizes and glass types are tested for air/water/structural and impact-resistance, and are certified for wind zone 4, large missile rating D.

Florida Product Approval System number not needed if Miami-Dade County approved.



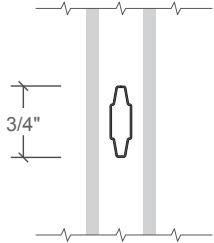
FIXED WINDOW

GRILLE TYPES

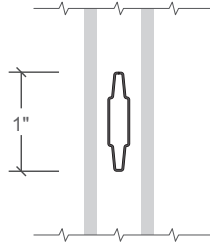


Grille Profiles

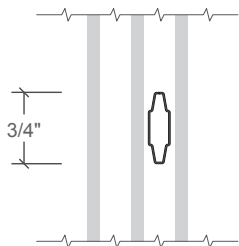
GRILLES-BETWEEN-THE-GLASS



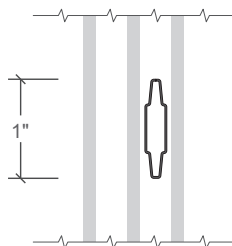
3/4" Contour



1" Contour

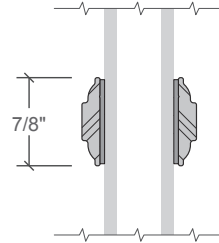


3/4" Contour



1" Contour

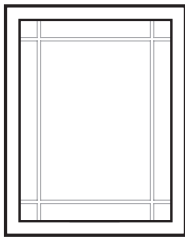
SIMULATED-DIVIDED-LIGHT GRILLES WITHOUT SPACER



7/8" Contour

Grille Patterns

PRAIRIE LITE PATTERNS

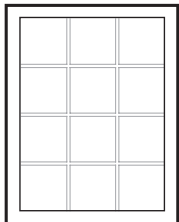


9-Lite Prairie

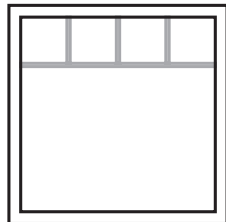
Prairie

- Approximately 4" from edge of sash to center of bar
- Minimum actual glass is 13"

OTHER AVAILABLE PATTERNS



Traditional



Top Row



Custom—Equally Divided

Traditional

- Specify number of lites.
- Grilles must be equally divided on visible glass.
- Minimum 6" x 6".

Top Row

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

For traditional patterns, see size tables.



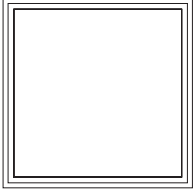
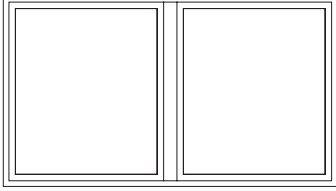
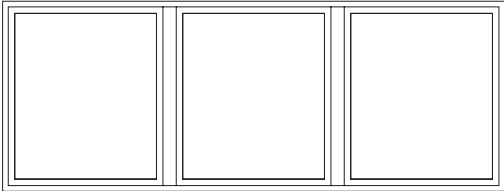
FIXED WINDOW

SPECIAL SIZE FRAME DIMENSIONS

Composite Assemblies

Miscellaneous Formulas



RECTANGLE	2-WIDE COMPOSITE WITH INTEGRAL MULLION	3-WIDE COMPOSITE WITH INTEGRAL MULLION
 <p>MINIMUM 11-1/2" W x 11-1/2" H (292 x 292)</p> <p>MAXIMUM 112" W x 96" H (2 845 x 2 438)</p>	 <p>MINIMUM 12-1/2" W x 11-1/2" H (597 x 292)</p> <p>MAXIMUM 112" W x 73-1/2" H (2 845 x 1 867)</p>	 <p>MINIMUM 35-1/2" W x 11-1/2" H (902 x 292)</p> <p>MAXIMUM 112" W x 73-1/2" H (2 845 x 1 867)</p>

General Notes:

- To convert areas to square meters (m²), multiply square feet by 0.0929.
- Rough Opening–Frame Dimension + 1/2".
- Keep frame dimensions to the nearest 1/4" increment.
- Tempered glass must measure > 18-1/2" diagonally.
- Go to next largest standard size to determine performance class and grade.
- Bronze limited to 22 ft².

Miscellaneous Formulas

VISIBLE GLASS	Width = Frame - 3-15/16" Height = Frame - 3-15/16"
ACTUAL GLASS	Width = Frame - 2-13/16" Height = Frame - 2-13/16"

Composite units have a performance class and grade of LC25.



FIXED WINDOW

SIZE TABLES



	(462) (343)	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(1 219) (1 207)
Opening	1'- 2"	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	4' 0"
Frame	13 1/2"	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	47 1/2"
(462) (343)	1'- 2"	1'- 2"	2'- 0"	2'- 4"	2'- 6"	2'- 8"	3'- 0"	4'- 0"
(457) (445)	1'- 6"	1'- 6"	2'- 0"	2'- 4"	2'- 6"	2'- 8"	3'- 0"	4'- 0"
(610) (597)	2'- 0"	2'- 0"	2'- 0"	2'- 4"	2'- 6"	2'- 8"	3'- 0"	4'- 0"
(914) (902)	3'- 0"	3'- 0"	3'- 0"	3'- 0"	3'- 0"	3'- 0"	3'- 0"	4'- 0"
(965) (953)	3'- 2"	3'- 2"	3'- 2"	3'- 2"	3'- 2"	3'- 2"	3'- 2"	4'- 0"
(1 067) (1 054)	3'- 6"	3'- 6"	3'- 6"	3'- 6"	3'- 6"	3'- 6"	3'- 6"	4'- 0"
(1 168) (1 156)	3'- 10"	3'- 10"	3'- 10"	3'- 10"	3'- 10"	3'- 10"	3'- 10"	4'- 0"
(1 219) (1 207)	4'- 0"	4'- 0"	4'- 0"	4'- 0"	4'- 0"	4'- 0"	4'- 0"	4'- 0"
(1 321) (1 308)	4'- 4"	4'- 4"	4'- 4"	4'- 4"	4'- 4"	4'- 4"	4'- 4"	4'- 0"
(1 372) (1 359)	4'- 6"	4'- 6"	4'- 6"	4'- 6"	4'- 6"	4'- 6"	4'- 6"	4'- 0"
(1 524) (1 511)	5'- 0"	5'- 0"	5'- 0"	5'- 0"	5'- 0"	5'- 0"	5'- 0"	4'- 0"
	59 1/2"	59 1/2"	59 1/2"	59 1/2"	59 1/2"	59 1/2"	59 1/2"	59 1/2"

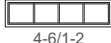
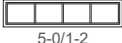
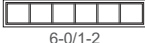
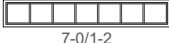
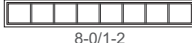

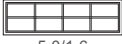

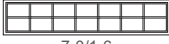
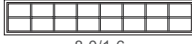





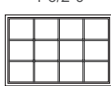
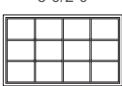
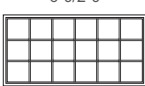
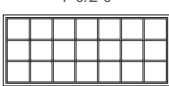
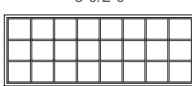
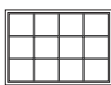

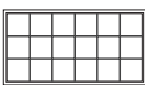
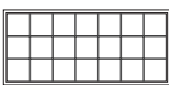
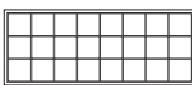





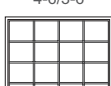
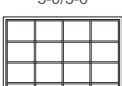
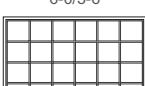
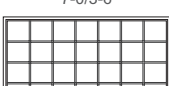
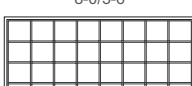
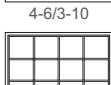
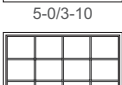
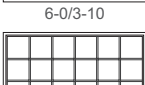
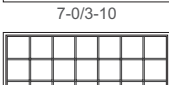
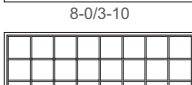
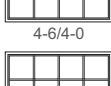
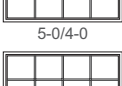
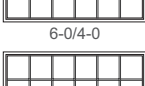
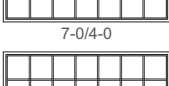

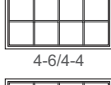
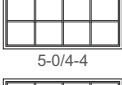
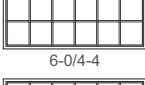

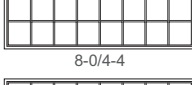
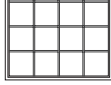
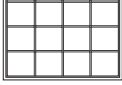
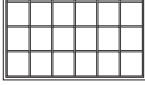

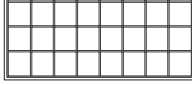
Not to scale.



FIXED WINDOW

SIZE TABLES



		(1 372) (1 359)	(1 524) (1 511)	(1 829) (1 816)	(2 134) (2 121)	(2 438) (2 426)
Opening		4' 6"	5' 0"	6' 0"	7' 0"	8' 0"
Frame		53 1/2"	59 1/2"	71 1/2"	83 1/2"	95 1/2"
(462) (343)	1' - 2"	 4-6/1-2	 5-0/1-2	 6-0/1-2	 7-0/1-2	 8-0/1-2
(457) (445)	1' 6"	 4-6/1-6	 5-0/1-6	 6-0/1-6	 7-0/1-6	 8-0/1-6
(610) (597)	2' 0"	 4-6/2-0	 5-0/2-0	 6-0/2-0	 7-0/2-0	 8-0/2-0
(914) (902)	3' 0"	 4-6/3-0	 5-0/3-0	 6-0/3-0	 7-0/3-0	 8-0/3-0
(965) (953)	3' 2"	 4-6/3-2	 5-0/3-2	 6-0/3-2	 7-0/3-2	 8-0/3-2
(1 067) (1 054)	3' 6"	 4-6/3-6	 5-0/3-6	 6-0/3-6	 7-0/3-6	 8-0/3-6
(1 168) (1 156)	3' 10"	 4-6/3-10	 5-0/3-10	 6-0/3-10	 7-0/3-10	 8-0/3-10
(1 219) (1 207)	4' 0"	 4-6/4-0	 5-0/4-0	 6-0/4-0	 7-0/4-0	 8-0/4-0
(1 321) (1 308)	4' 4"	 4-6/4-4	 5-0/4-4	 6-0/4-4	 7-0/4-4	 8-0/4-4
(1 372) (1 359)	4' 6"	 4-6/4-6	 5-0/4-6	 6-0/4-6	 7-0/4-6	 8-0/4-6
(1 524) (1 511)	5' 0"	 4-6/5-0	 5-0/5-0	 6-0/5-0	 7-0/5-0	 8-0/5-0

Not to scale.



FIXED WINDOW

SIZE TABLES



		(462) (343)	(457) (445)	(610) (597)	(711) (699)	(762) (749)	(813) (800)	(914) (902)	(1 219) (1 207)
Opening		1'-2"	1'-6"	2'-0"	2'-4"	2'-6"	2'-8"	3'-0"	4'-0"
Frame		13 1/2"	17 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	47 1/2"
(1 575) (1 562)	5'-2"								
	5'-6"								
	6'-0"								

		(1 372) (1 359)	(1 524) (1 511)	(1 829) (1 816)	(2 134) (2 121)
Opening		4'-6"	5'-0"	6'-0"	7'-0"
Frame		53 1/2"	59 1/2"	71 1/2"	83 1/2"
(1 575) (1 562)	5'-2"				
	5'-6"				
	6'-0"				

Not to scale.



FIXED WINDOW

SIZE TABLES

5/8" Integral Flange



Call Size	1	H3	2	3	D2
Masonry	19 7/8"	27 1/4"	37 3/4"	53 7/8"	74 3/4"
Buck	18 3/8"	25 3/4"	36 1/4"	52 3/8"	73 1/4"
Frame	18 1/8"	25 1/2"	36"	52 1/8"	73"
Tip to Tip	19 1/8"	26 1/2"	37"	53 1/8"	74"
2	26"	25 1/4"	25"	26"	
3	38 3/8"	37 5/8"	37 3/8"	38 3/8"	
4	50 5/8"	49 7/8"	49 5/8"	50 5/8"	
5	63"	62 1/4"	62"	63"	
6	76"	75 1/4"	75"	76"	
	350FL-12	350FL-H32	350FL-22	350FL-32	350FL-D22
	350FL-13	350FL-H33	350FL-23	350FL-33	350FL-D23
	350FL-14	350FL-H34	350FL-24	350FL-34	350FL-D24
	350FL-15	350FL-H35	350FL-25	350FL-35	
	350FL-16	350FL-H36	350FL-26	350FL-36	

Not to scale.



FIXED WINDOW

DESIGN DATA

Single Units



SINGLE FIXED UNITS

Call Out	Frame		Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
	Width (Inches)	Height (Inches)		Annealed	Tempered	Standard	Upgrade ₂
1-2/1-2	13-1/2	13-1/2	0.6	2.5	3	CW40	CW60 / CW50
1-2/1-6	13-1/2	17-1/2	0.9	2.5	3	CW40	CW60 / CW50
1-2/2-0	13-1/2	23-1/2	1.3	2.5	3	CW40	CW60 / CW50
1-2/3-0	13-1/2	35-1/2	2.1	2.5	3	CW40	CW60 / CW50
1-2/3-2	13-1/2	37-1/2	2.2	2.5	3	CW40	CW60 / CW50
1-2/3-6	13-1/2	41-1/2	2.5	2.5	3	CW40	CW60 / CW50
1-2/3-10	13-1/2	45-1/2	2.8	2.5	3	CW40	CW60 / CW50
1-2/4-0	13-1/2	47-1/2	2.9	2.5	3	CW40	CW60 / CW50
1-2/4-4	13-1/2	51-1/2	3.2	2.5	3	CW40	CW60 / CW50
1-2/4-6	13-1/2	53-1/2	3.3	2.5	3	CW40	CW60 / CW50
1-2/5-0	13-1/2	59-1/2	3.7	3	3	CW40	CW60 / CW50
1-2/5-2	13-1/2	61-1/2	3.8	3	3	CW40	CW60 / CW50
1-2/5-6	13-1/2	65-1/2	4.1	3	3	CW40	CW60 / CW50
1-2/6-0	13-1/2	71-1/2	4.5	3	3	CW40	CW60 / CW50
1-6/1-2	17-1/2	13-1/2	0.9	2.5	3	CW40	CW60 / CW50
1-6/1-6	17-1/2	17-1/2	1.3	2.5	3	CW40	CW60 / CW50
1-6/2-0	17-1/2	23-1/2	1.8	2.5	3	CW40	CW60 / CW50
1-6/3-0	17-1/2	35-1/2	3.0	2.5	3	CW40	CW60 / CW50
1-6/3-2	17-1/2	37-1/2	3.2	2.5	3	CW40	CW60 / CW50
1-6/3-6	17-1/2	41-1/2	3.5	2.5	3	CW40	CW60 / CW50
1-6/3-10	17-1/2	45-1/2	3.9	2.5	3	CW40	CW60 / CW50
1-6/4-0	17-1/2	47-1/2	4.1	2.5	3	CW40	CW60 / CW50
1-6/4-4	17-1/2	51-1/2	4.5	2.5	3	CW40	CW60 / CW50
1-6/4-6	17-1/2	53-1/2	4.7	2.5	3	CW40	CW60 / CW50
1-6/5-0	17-1/2	59-1/2	5.2	2.5	3	CW40	CW60 / CW50
1-6/5-2	17-1/2	61-1/2	5.4	2.5	3	CW40	CW60 / CW50
1-6/5-6	17-1/2	65-1/2	5.8	3	3	CW40	CW60 / CW50
1-6/6-0	17-1/2	71-1/2	6.4	3	3	CW40	CW60 / CW50
2-0/1-2	23-1/2	13-1/2	1.3	2.5	3	CW40	CW60 / CW50
2-0/1-6	23-1/2	17-1/2	1.8	2.5	3	CW40	CW60 / CW50
2-0/2-0	23-1/2	23-1/2	2.7	2.5	3	CW40	CW60 / CW50
2-0/3-0	23-1/2	35-1/2	4.3	2.5	3	CW40	CW60 / CW50
2-0/3-2	23-1/2	37-1/2	4.6	2.5	3	CW40	CW60 / CW50
2-0/3-6	23-1/2	41-1/2	5.1	2.5	3	CW40	CW60 / CW50
2-0/3-10	23-1/2	45-1/2	5.6	3	3	CW40	CW60 / CW50
2-0/4-0	23-1/2	47-1/2	5.9	3	3	CW40	CW60 / CW50
2-0/4-4	23-1/2	51-1/2	6.5	3	3	CW40	CW60 / CW50
2-0/4-6	23-1/2	53-1/2	6.7	3	3	CW40	CW60 / CW50
2-0/5-0	23-1/2	59-1/2	7.5	3	3	CW40	CW60 / CW50
2-0/5-2	23-1/2	61-1/2	7.8	3	3	CW40	CW60 / CW50
2-0/5-6	23-1/2	65-1/2	8.4	3	3	CW40	CW60 / CW50
2-0/6-0	23-1/2	71-1/2	9.2	3	3	CW40	CW60 / CW50
2-4/1-2	27-1/2	13-1/2	1.6	2.5	3	CW40	CW60 / CW50
2-4/1-6	27-1/2	17-1/2	2.2	2.5	3	CW40	CW60 / CW50
2-4/2-0	27-1/2	23-1/2	3.2	2.5	3	CW40	CW60 / CW50
2-4/3-0	27-1/2	35-1/2	5.2	2.5	3	CW40	CW60 / CW50
2-4/3-2	27-1/2	37-1/2	5.5	2.5	3	CW40	CW60 / CW50
2-4/3-6	27-1/2	41-1/2	6.1	2.5	3	CW40	CW60 / CW50
2-4/3-10	27-1/2	45-1/2	6.8	2.5	3	CW40	CW60 / CW50

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

(2) Second value, where shown, is for single units with a nail frame.

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



FIXED WINDOW

DESIGN DATA

Single Units



SINGLE FIXED UNITS

Call Out	Frame		Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
	Width (Inches)	Height (Inches)		Annealed	Tempered	Standard	Upgrade ₂
2-4/4-0	27-1/2	47-1/2	7.1	2.5	3	CW40	CW60 / CW50
2-4/4-4	27-1/2	51-1/2	7.8	2.5	3	CW40	CW60 / CW50
2-4/4-6	27-1/2	53-1/2	8.1	3	3	CW40	CW60 / CW50
2-4/5-0	27-1/2	59-1/2	9.1	3	3	CW40	CW60 / CW50
2-4/5-2	27-1/2	61-1/2	9.4	3	3	CW40	CW60 / CW50
2-4/5-6	27-1/2	65-1/2	10.1	3	3	CW40	CW60 / CW50
2-4/6-0	27-1/2	71-1/2	11.1	3	3	CW40	CW60 / CW50
2-6/1-2	29-1/2	13-1/2	1.7	2.5	3	CW40	CW60 / CW50
2-6/1-6	29-1/2	17-1/2	2.4	2.5	3	CW40	CW60 / CW50
2-6/2-0	29-1/2	23-1/2	3.5	2.5	3	CW40	CW60 / CW50
2-6/3-0	29-1/2	35-1/2	5.6	2.5	3	CW40	CW60 / CW50
2-6/3-2	29-1/2	37-1/2	6.0	2.5	3	CW40	CW60 / CW50
2-6/3-6	29-1/2	41-1/2	6.7	2.5	3	CW40	CW60 / CW50
2-6/3-10	29-1/2	45-1/2	7.4	2.5	3	CW40	CW60 / CW50
2-6/4-0	29-1/2	47-1/2	7.7	2.5	3	CW40	CW60 / CW50
2-6/4-4	29-1/2	51-1/2	8.4	3	3	CW40	CW60 / CW50
2-6/4-6	29-1/2	53-1/2	8.8	3	3	CW40	CW60 / CW50
2-6/5-0	29-1/2	59-1/2	9.9	3	3	CW40	CW60 / CW50
2-6/5-2	29-1/2	61-1/2	10.2	3	3	CW40	CW60 / CW50
2-6/5-6	29-1/2	65-1/2	10.9	3	3	CW40	CW60 / CW50
2-6/6-0	29-1/2	71-1/2	12.0	3	3	CW40	CW60 / CW50
2-8/1-2	31-1/2	13-1/2	1.8	2.5	3	CW40	CW60 / CW50
2-8/1-6	31-1/2	17-1/2	2.6	2.5	3	CW40	CW60 / CW50
2-8/2-0	31-1/2	23-1/2	3.7	2.5	3	CW40	CW60 / CW50
2-8/3-0	31-1/2	35-1/2	6.0	2.5	3	CW40	CW60 / CW50
2-8/3-2	31-1/2	37-1/2	6.4	2.5	3	CW40	CW60 / CW50
2-8/3-6	31-1/2	41-1/2	7.2	2.5	3	CW40	CW60 / CW50
2-8/3-10	31-1/2	45-1/2	8.0	2.5	3	CW40	CW60 / CW50
2-8/4-0	31-1/2	47-1/2	8.3	2.5	3	CW40	CW60 / CW50
2-8/4-4	31-1/2	51-1/2	9.1	3	3	CW40	CW60 / CW50
2-8/4-6	31-1/2	53-1/2	9.5	3	3	CW40	CW60 / CW50
2-8/5-0	31-1/2	59-1/2	10.6	3	3	CW40	CW60 / CW50
2-8/5-2	31-1/2	61-1/2	11.0	3	3	CW40	CW60 / CW50
2-8/5-6	31-1/2	65-1/2	11.8	3	3	CW40	CW60 / CW50
2-8/6-0	31-1/2	71-1/2	12.9	3	3	CW40	CW60 / CW50
3-0/1-2	35-1/2	13-1/2	2.1	2.5	3	CW40	CW60 / CW50
3-0/1-6	35-1/2	17-1/2	3.0	2.5	3	CW40	CW60 / CW50
3-0/2-0	35-1/2	23-1/2	4.3	2.5	3	CW40	CW60 / CW50
3-0/3-0	35-1/2	35-1/2	6.9	2.5	3	CW40	CW60 / CW50
3-0/3-2	35-1/2	37-1/2	7.4	2.5	3	CW40	CW60 / CW50
3-0/3-6	35-1/2	41-1/2	8.2	2.5	3	CW40	CW60 / CW50
3-0/3-10	35-1/2	45-1/2	9.1	3	3	CW40	CW60 / CW50
3-0/4-0	35-1/2	47-1/2	9.5	3	3	CW40	CW60 / CW50
3-0/4-4	35-1/2	51-1/2	10.4	3	3	CW40	CW60 / CW50
3-0/4-6	35-1/2	53-1/2	10.9	3	3	CW40	CW60 / CW50
3-0/5-0	35-1/2	59-1/2	12.2	3	3	CW40	CW60 / CW50
3-0/5-2	35-1/2	61-1/2	12.6	3	3	CW40	CW60 / CW50
3-0/5-6	35-1/2	65-1/2	13.5	3	3	CW40	CW60 / CW50
3-0/6-0	35-1/2	71-1/2	14.8	5	3	CW40	CW60 / CW50

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

(2) Second value, where shown, is for single units with a nail frame.

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



FIXED WINDOW

DESIGN DATA

Single Units



SINGLE FIXED UNITS

Call Out	Frame		Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
	Width (Inches)	Height (Inches)		Annealed	Tempered	Standard	Upgrade ₂
4-0/1-2	47-1/2	13-1/2	2.9	2.5	3	CW40	CW60 / CW50
4-0/1-6	47-1/2	17-1/2	4.1	2.5	3	CW40	CW60 / CW50
4-0/2-0	47-1/2	23-1/2	5.9	3	3	CW40	CW60 / CW50
4-0/3-0	47-1/2	35-1/2	9.5	3	3	CW40	CW60 / CW50
4-0/3-2	47-1/2	37-1/2	10.2	3	3	CW40	CW60 / CW50
4-0/3-6	47-1/2	41-1/2	11.4	3	3	CW40	CW60 / CW50
4-0/3-10	47-1/2	45-1/2	12.6	3	3	CW40	CW60 / CW50
4-0/4-0	47-1/2	47-1/2	13.2	3	3	CW40	CW60 / CW50
4-0/4-4	47-1/2	51-1/2	14.4	5	3	CW40	CW60 / CW50
4-0/4-6	47-1/2	53-1/2	15.0	5	3	CW40	CW60 / CW50
4-0/5-0	47-1/2	59-1/2	16.8	5	3	CW40	CW60 / CW50
4-0/5-2	47-1/2	61-1/2	17.4	5	3	CW40	CW60 / CW50
4-0/5-6	47-1/2	65-1/2	18.6	5	3	CW40	CW60 / CW50
4-0/6-0	47-1/2	71-1/2	20.4	5	3	CW40	CW60 / CW50
4-6/1-2	53-1/2	13-1/2	3.3	2.5	3	CW40	CW60 / CW50
4-6/1-6	53-1/2	17-1/2	4.7	2.5	3	CW40	CW60 / CW50
4-6/2-0	53-1/2	23-1/2	6.7	3	3	CW40	CW60 / CW50
4-6/3-0	53-1/2	35-1/2	10.9	3	3	CW40	CW60 / CW50
4-6/3-2	53-1/2	37-1/2	11.6	3	3	CW40	CW60 / CW50
4-6/3-6	53-1/2	41-1/2	12.9	3	3	CW40	CW60 / CW50
4-6/3-10	53-1/2	45-1/2	14.3	5	3	CW40	CW60 / CW50
4-6/4-0	53-1/2	47-1/2	15.0	5	3	CW40	CW60 / CW50
4-6/4-4	53-1/2	51-1/2	16.4	5	5	CW40	CW60 / CW50
4-6/4-6	53-1/2	53-1/2	17.1	5	5	CW40	CW60 / CW50
4-6/5-0	53-1/2	59-1/2	19.1	5	5	CW40	CW60 / CW50
4-6/5-2	53-1/2	61-1/2	19.8	5	5	CW40	CW60 / CW50
4-6/5-6	53-1/2	65-1/2	21.2	5	5	CW40	CW60 / CW50
4-6/6-0	53-1/2	71-1/2	23.3	5	5	CW40	CW60 / CW50
5-0/1-2	59-1/2	13-1/2	3.7	2.5	3	CW40	CW60 / CW50
5-0/1-6	59-1/2	17-1/2	5.2	2.5	3	CW40	CW60 / CW50
5-0/2-0	59-1/2	23-1/2	7.5	3	3	CW40	CW60 / CW50
5-0/3-0	59-1/2	35-1/2	12.2	3	3	CW40	CW60 / CW50
5-0/3-2	59-1/2	37-1/2	13.0	3	3	CW40	CW60 / CW50
5-0/5-0	59-1/2	41-1/2	14.5	5	3	CW40	CW60 / CW50
5-0/3-10	59-1/2	45-1/2	16.0	5	3	CW40	CW60 / CW50
5-0/4-0	59-1/2	47-1/2	16.8	5	3	CW40	CW60 / CW50
5-0/4-4	59-1/2	51-1/2	18.4	5	5	CW40	CW60 / CW50
5-0/4-6	59-1/2	53-1/2	19.1	5	5	CW40	CW60 / CW50
5-0/5-0	59-1/2	59-1/2	21.4	5	5	CW40	CW60 / CW50
5-0/5-2	59-1/2	61-1/2	22.2	5	5	CW40	CW60 / CW50
5-0/5-6	59-1/2	65-1/2	23.8	5	5	CW40	CW60 / CW50
5-0/6-0	59-1/2	71-1/2	26.1	5	5	CW40	CW60 / CW50

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

(2) Second value, where shown, is for single units with a nail frame.

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



FIXED WINDOW

DESIGN DATA

Single Units



SINGLE FIXED UNITS

Call Out	Frame		Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade ₁	
	Width (Inches)	Height (Inches)		Annealed	Tempered	Standard	Upgrade ₂
6-0/1-2	71-1/2	13-1/2	4.5	2.5	3	CW40	CW60 / CW50
6-0/1-6	71-1/2	17-1/2	6.4	3	3	CW40	CW60 / CW50
6-0/2-0	71-1/2	23-1/2	9.2	3	3	CW40	CW60 / CW50
6-0/3-0	71-1/2	35-1/2	14.8	5	3	CW40	CW60 / CW50
6-0/3-2	71-1/2	37-1/2	15.7	5	3	CW40	CW60 / CW50
6-0/5-0	71-1/2	41-1/2	17.6	5	3	CW40	CW60 / CW50
6-0/3-10	71-1/2	45-1/2	19.5	5	3	CW40	CW60 / CW50
6-0/4-0	71-1/2	47-1/2	20.4	5	3	CW40	CW60 / CW50
6-0/4-4	71-1/2	51-1/2	22.3	5	5	CW40	CW60 / CW50
6-0/4-6	71-1/2	53-1/2	23.3	5	5	CW40	CW60 / CW50
6-0/5-0	71-1/2	59-1/2	26.1	5	5	CW40	CW60 / CW50
6-0/5-2	71-1/2	61-1/2	27.0	5	5	CW40	CW60 / CW50
6-0/5-6	71-1/2	65-1/2	28.9	5	5	CW40	CW60 / CW50
6-0/6-0	71-1/2	71-1/2	31.7	5	5	CW40	CW60 / CW50
7-0/1-2	83-1/2	13-1/2	5.3	2.5	3	R40 / LC30	CW60 / LC30
7-0/1-6	83-1/2	17-1/2	7.5	3	3	R40 / LC30	CW60 / LC30
7-0/2-0	83-1/2	23-1/2	10.8	3	3	R40 / LC30	CW60 / LC30
7-0/3-0	83-1/2	35-1/2	17.4	5	3	R40 / LC30	CW60 / LC30
7-0/3-2	83-1/2	37-1/2	18.5	5	3	R40 / LC30	CW60 / LC30
7-0/5-0	83-1/2	41-1/2	20.8	5	3	R40 / LC30	CW60 / LC30
7-0/3-10	83-1/2	45-1/2	23.0	5	3	R40 / LC30	CW60 / LC30
7-0/4-0	83-1/2	47-1/2	24.1	5	3	R40 / LC30	CW60 / LC30
7-0/4-4	83-1/2	51-1/2	26.3	5	5	R40 / LC30	CW60 / LC30
7-0/4-6	83-1/2	53-1/2	27.4	5	5	R40 / LC30	CW60 / LC30
7-0/5-0	83-1/2	59-1/2	30.7	5	5	R40 / LC30	CW60 / LC30
7-0/5-2	83-1/2	61-1/2	31.8	5	5	R40 / LC30	CW60 / LC30
7-0/5-6	83-1/2	65-1/2	34.0	5	5	R40 / LC30	CW60 / LC30
8-0/1-2	96-1/2	13-1/2	6.1	3	3	R40 / LC30	CW60 / LC30
8-0/1-6	96-1/2	17-1/2	8.7	3	3	R40 / LC30	CW60 / LC30
8-0/2-0	96-1/2	23-1/2	12.6	3	3	R40 / LC30	CW60 / LC30
8-0/3-0	96-1/2	35-1/2	20.3	5	3	R40 / LC30	CW60 / LC30
8-0/3-2	96-1/2	37-1/2	21.6	5	3	R40 / LC30	CW60 / LC30
8-0/5-0	96-1/2	41-1/2	24.1	5	3	R40 / LC30	CW60 / LC30
8-0/3-10	96-1/2	45-1/2	26.7	5	3	R40 / LC30	CW60 / LC30
8-0/4-0	96-1/2	47-1/2	28.0	5	3	R40 / LC30	CW60 / LC30
8-0/4-4	96-1/2	51-1/2	30.6	5	5	R40 / LC30	CW60 / LC30
8-0/4-6	96-1/2	53-1/2	31.9	5	5	R40 / LC30	CW60 / LC30
8-0/5-0	96-1/2	59-1/2	35.7	5	5	R40 / LC30	CW60 / LC30

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

(2) Second value, where shown, is for single units with a nail frame.

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



FIXED WINDOW

DESIGN DATA

5/8" Integral Flange Units



FIXED UNITS

Call Out	Frame		Visible Glass Ft²	Frame Area Ft²	Performance Class & Grade ¹	
	Width (Inches)	Height (Inches)			Standard	Upgrade
FL-12	18-1/8	25	2.1	3.1	CW40	CW60
FL-13	18-1/8	37-3/8	3.3	4.7	CW40	CW60
FL-14	18-1/8	49-5/8	4.5	6.2	CW40	CW60
FL-15	18-1/8	62	5.7	7.8	CW40	CW60
FL-16	18-1/8	75	7.0	9.4	CW40	CW60
FL-H32	25-1/2	25	3.2	4.4	CW40	CW60
FL-H33	25-1/2	37-3/8	5.0	6.6	CW40	CW60
FL-H34	25-1/2	49-5/8	6.8	8.8	CW40	CW60
FL-H35	25-1/2	62	8.7	11.0	CW40	CW60
FL-H36	25-1/2	75	10.6	13.3	CW40	CW60
FL-22	36	25	4.7	6.3	CW40	CW60
FL-23	36	37-3/8	7.4	9.3	CW40	CW60
FL-24	36	49-5/8	10.2	12.4	CW40	CW60
FL-25	36	62	12.9	15.5	CW40	CW60
FL-26	36	75	15.8	18.8	CW40	CW60
FL-32	52-1/8	25	7.0	9.0	CW40	CW60
FL-33	52-1/8	37-3/8	11.2	13.5	CW40	CW60
FL-34	52-1/8	49-5/8	15.3	18.0	CW40	CW60
FL-35	52-1/8	62	19.4	22.4	CW40	CW60
FL-36	52-1/8	75	23.8	27.1	CW40	CW60
FL-D22	73	25	10.1	12.7	CW40	CW60
FL-D23	73	37-3/8	16.0	18.9	CW40	CW60
FL-D24	73	49-5/8	21.9	25.2	CW40	CW60
FL-D25	73	62	27.8	31.4	CW40	CW60
FL-D26	73	75	34.1	38.0	CW40	CW60

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



FIXED WINDOW

DETAILED PRODUCT DESCRIPTIONS



FRAME

- Overall frame depth: 4-1/2" on all frame types except the 3-1/4" Block Pocket Replacement frame. The 3-1/4" Block Pocket Replacement frame has an overall frame depth of 4-7/8".
- Frame members are mitered and heat fused to provide a fully welded corner assembly.
- Frame: [1-3/8" setback nail fin for 3-1/8" wall depth] [Block frame for 4-1/2" wall depth] [Block frame for 3-1/4" Block Pocket Replacement install] [Flush flange for 4" wall depth] [Integral flange for 3-7/8" wall depth].
- Interior and exterior frame surfaces are extruded rigid PVC.

GLAZING SYSTEM

- Quality float glass complying with ASTM C 1036.
- Exterior face-glazed sealed insulating glass.
- 1" Dual Pane annealed [Advanced Low-E coated [with Argon]] [NaturalSun Low-E coated [with Argon]] [SunDefense™ Low-E coated [with Argon]] [Bronze, Advanced Low-E coated [with Argon]] [Gray Low-E coated [with Argon]] [Obscure¹] [High Altitude²] [Tempered].
- -or-
- 1-3/8" Triple Pane annealed [Advanced Low-E coated with Argon] [NaturalSun Low-E coated with Argon] [Obscure¹] [High Altitude²] [Tempered].
- -or-
- Silicone-glazed 1" dual-seal impact-resistant insulating glass SGP. Laminated clear interior light. [Tempered] [Annealed] exterior light is [Advanced Low-E coated [with argon]] [SunDefense™ Low-E coated [with argon]] [Gray Low-E coated with argon] [High Altitude²].
- -or- (Based on size ordered)
- Silicone-glazed 1" dual-seal impact-resistant insulating glass PVB. Laminated [clear] [Bronze³] [Opaque⁴] interior light. [Tempered] [Annealed] exterior light is [Advanced Low-E coated [with argon]] [SunDefense™ Low-E coated [with argon]] [Gray Low-E coated with argon] [Obscure¹] [High Altitude²].

INTERIOR / EXTERIOR

- Window frame members [[White] [Almond] have an integral color extruded throughout the profiles] [Brown exterior has a solar reflective coating per AAMA 614, and integral color on the interior]. All exposed PVC surfaces are smooth, glossy and uniform in appearance.
- Frame color: [White] [Almond] [Brown exterior/White interior].

OPTIONAL PRODUCTS

Grilles

- Grilles-Between-the-Glass
 - Insulating glass contains [3/4"] [1"] contoured aluminum grilles permanently installed between two panes of glass.
 - Grilles match color of interior and exterior frame.
- Simulated-Divided-Light grilles
 - Grilles permanently bonded to the interior and exterior of glass.
 - Patterns are [Traditional] [9-Lite Prairie] [Top Row] [Custom-Equally Divided].
 - Interior grilles match the interior frame color.
 - Exterior grilles match the exterior frame color.
 - Available only on units glazed with Dual Pane insulating glass.

(1) Obscure glass not available with Bronze Advanced Low-E.

(2) Dual Pane IG High Altitude glazing available with or without Argon. Triple Pane IG High Altitude glazing only available without Argon.

(3) Bronze glass not available with SunDefense™ or Gray Low-E.

(4) Opaque glass not available with Gray Low-E.



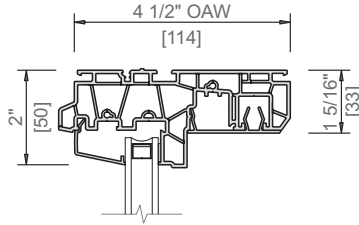
FIXED WINDOW

UNIT SECTIONS

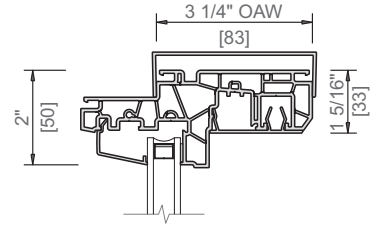
Installation Types



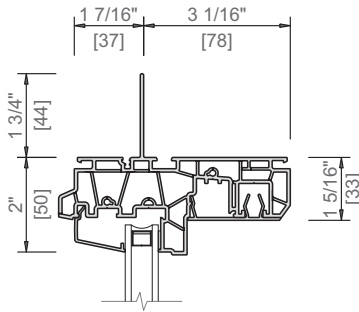
STANDARD
BLOCK FRAME



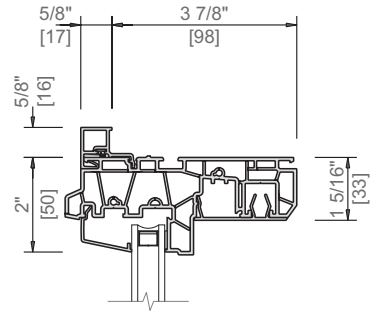
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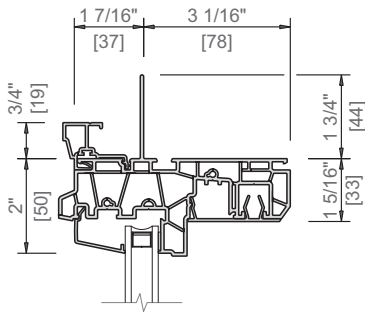
STANDARD
NAIL FIN



BLOCK FRAME with
5/8" INTEGRAL FLANGE

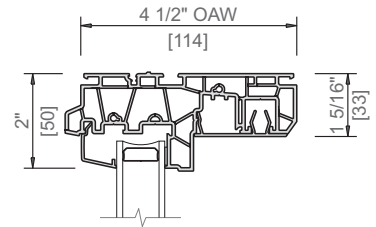


NAIL FIN
with J-CHANNEL

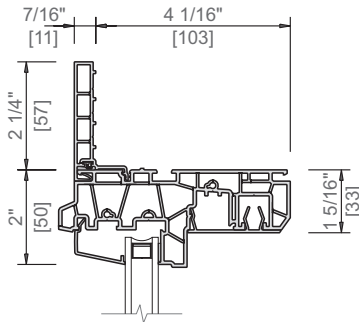


ADDITIONAL GLAZING OPTIONS

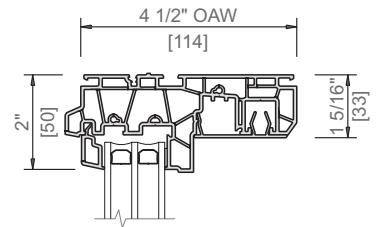
1" IG



DOUBLE WALL
FLUSH FLANGE



1 1/4" TRIPLE
PANE IG

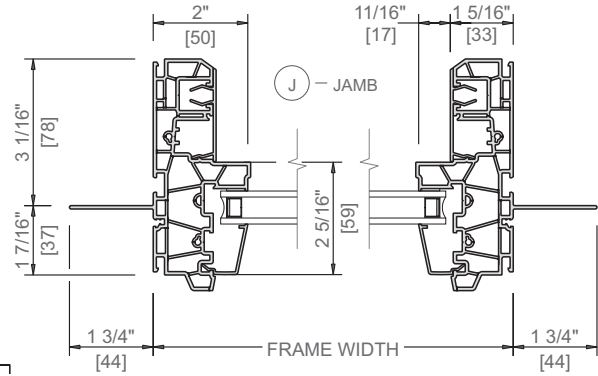
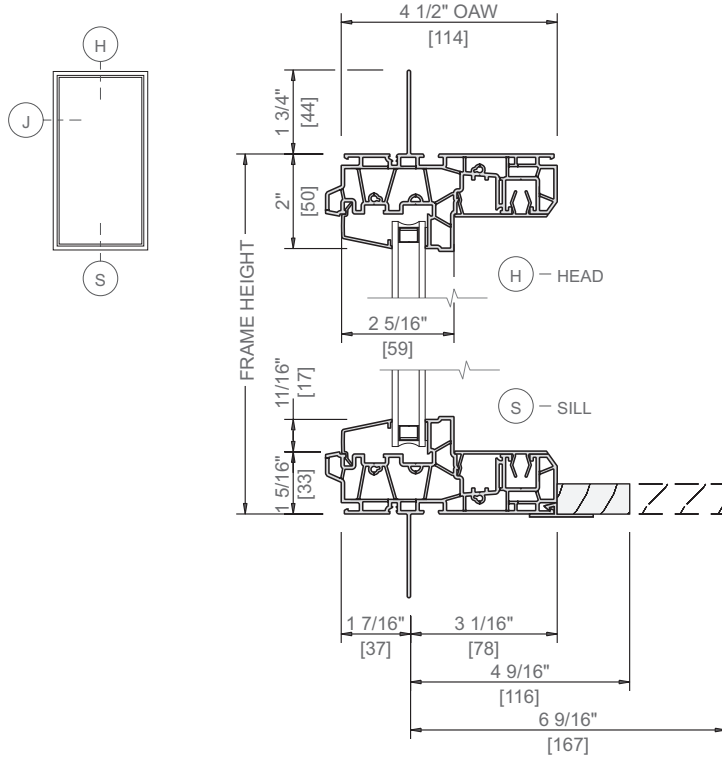




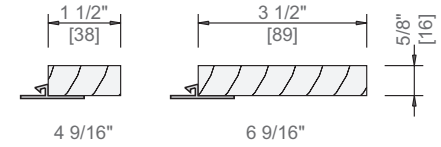
FIXED WINDOW

UNIT SECTIONS

Standard Nail Fin

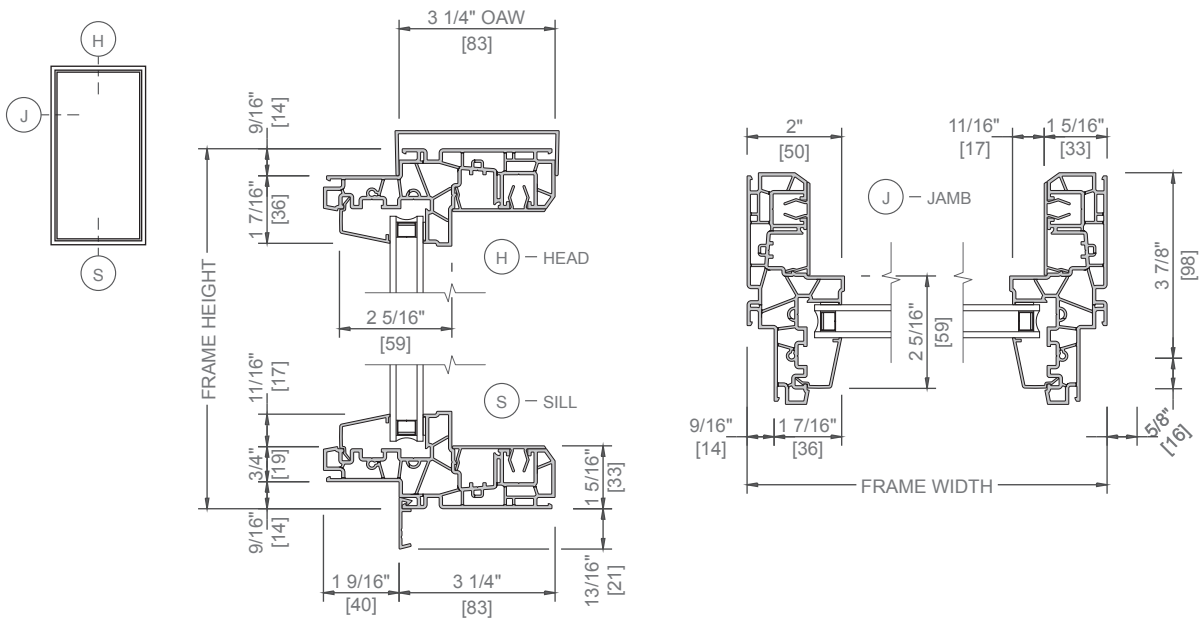


Optional Factory Applied Wood Jamb Extensions





FIXED WINDOW



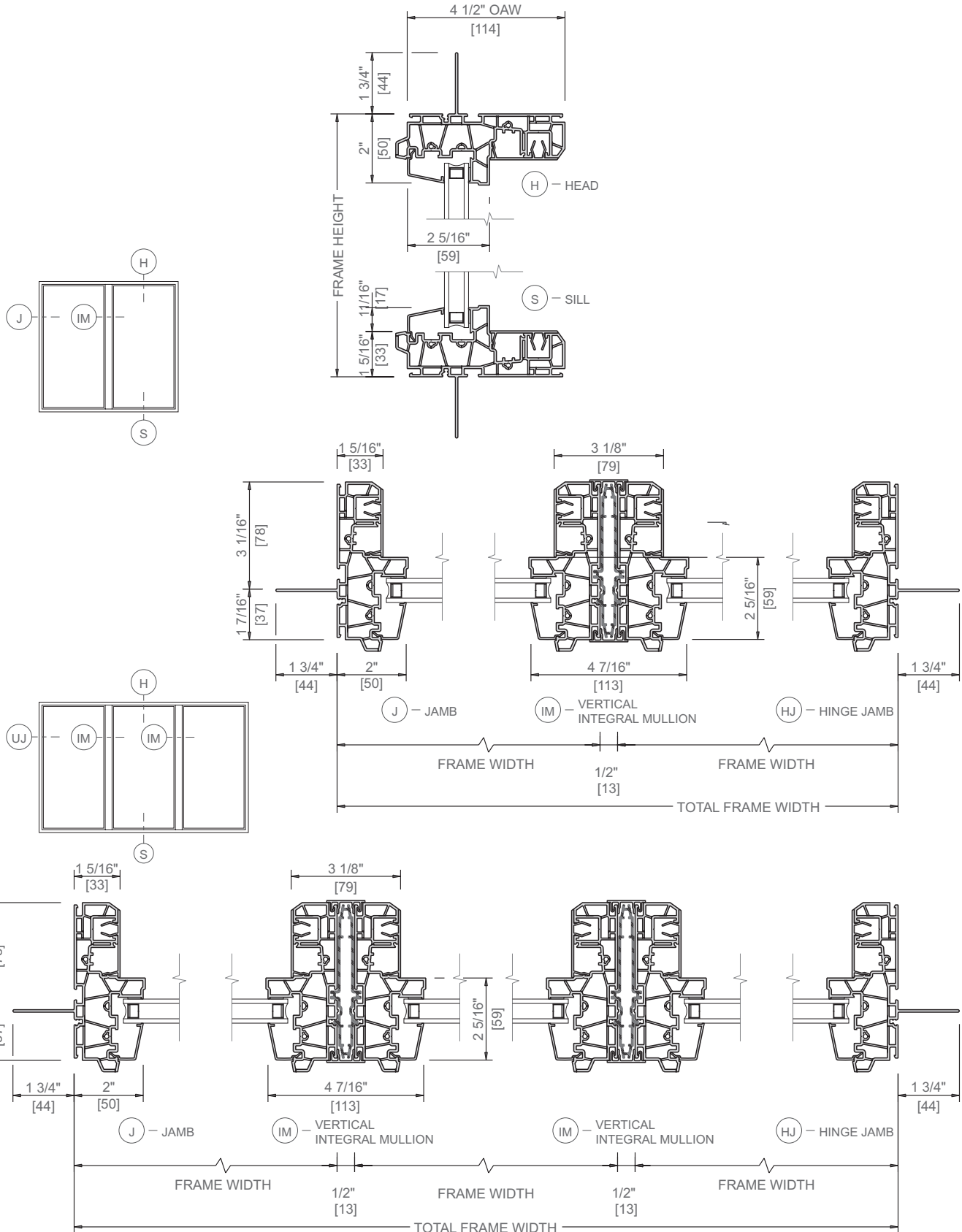
350-FW-28



FIXED WINDOW

UNIT SECTIONS

Factory-Assembled Combinations
with Standard Nail Fin



Scale 3" = 1' 0"

All dimensions are approximate.