



FIXED WINDOW

SECTION DIRECTORY



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General Notes:

Specifications subject to change without notice. Go to www.PellaADM.com for most current technical data.

For complete CSI Format Specifications, browse online at www.PellaADM.com.

Abbreviations:

P = Pending. Data not available at time of publication. Go to www.PellaADM.com for most current technical data.

HGP = Hinged Glass Panel

PVB = Polyvinyl butyral. This is a laminate material used in Pella HurricaneShield® glazing and is the same material traditionally used in car windshield applications.

SGP = SentryGlas® Plus from DuPont®. This is a stiffer laminate material which is optional in select HurricaneShield impact-resistant glazing products.

SentryGlas Plus and DuPont are registered trademarks of E. I. DuPont De Nemours & Company.

HA = High Altitude Glass.



FIXED WINDOW

BRAND SUMMARY

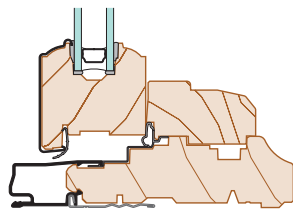
Fixed Window



Pella® Fixed Windows are traditional in every detail – with all the Pella innovations you demand. Pella's EnduraGuard protection formula, together with our immersion-treatment method, provides strong protection on every exterior wood surface of your windows and patio doors. This innovation provides advanced protection against the effects of moisture, decay, stains from mold and mildew – as well as termite damage. The exterior of the wood windows are protected by Pella's low-maintenance EnduraClad® protective finish, or EnduraClad Plus protective finish, aluminum cladding system.

**FIXED SASH IN FRAME**

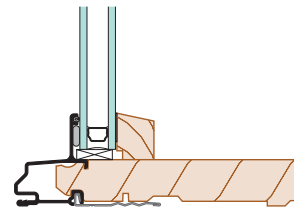
- A wide range of glazing options as well as HurricaneShield® impact-resistant glass
- Removable room side grilles, Integral Light Technology® grilles or Grilles-Between-the-Glass grilles
- EnduraClad® protective finish in standard and feature colors plus nearly unlimited custom colors
- EnduraClad Plus protective finish in standard and feature colors plus nearly unlimited custom colors



Architect Series® profile shown

FIXED FRAME DIRECT SET

- A wide range of glazing options as well as HurricaneShield® impact-resistant glass
- EnduraClad aluminum clad exteriors in standard and feature colors
- Removable room side grilles, Integral Light Technology® grilles or Grilles-Between-the-Glass grilles
- Prefinished stain, prefinished White, Bright White, Linen White or factory primed interiors

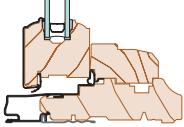
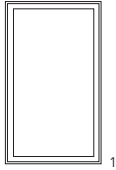
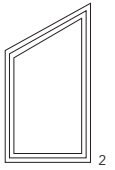
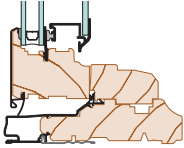
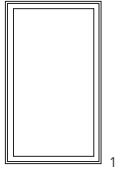
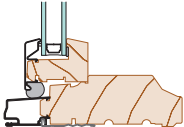
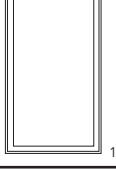
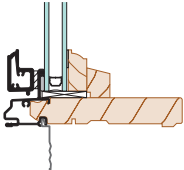
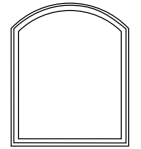
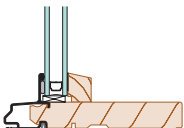
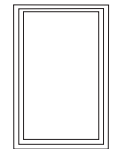
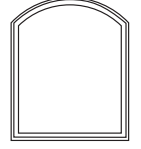
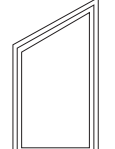
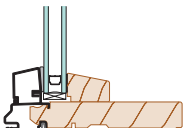
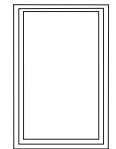




FIXED WINDOW

PRODUCT MATRIX



	PRODUCT	SILL PROFILE	RECTANGLE	CURVED	ANGLED
FIXED SASH IN FRAME	ARCHITECT SERIES® - FIXED SASH IN FRAME		 1	 2	 2
	DESIGNER SERIES® - FIXED SASH IN FRAME		 1		
	PELLA® PROLINE 450 - FIXED SASH IN FRAME		 1		
FIXED FRAME DIRECT SET	FIXED FRAME DIRECT SET - INTERIOR GLAZED (compliments Architect Series ILT and Pella ProLine 450 SDL Brands)				
	FIXED FRAME DIRECT SET - INTERIOR GLAZED				
	FIXED FRAME DIRECT SET - EXTERIOR GLAZED				

(1) See Casement section for details on rectangular units.

(2) See the Casement section for curved and angled shape units. Visit www.pellaadm.com for complete information.



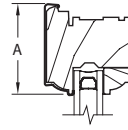
FIXED WINDOW

DESIGN DATA

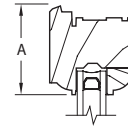
Wood and Aluminum-Clad Wood
Rectangle Shapes

**General Restrictions FOR ALL RECTANGULAR Units****Custom Stile and Rail Widths (Architect Series® Profile Only)**

	RAIL WIDTH (A) RANGE	RESTRICTIONS
TOP RAIL	1-7/8" to 5-3/4"	Rails and stiles that do not meet at 90 degrees must be the same Width (A) dimension.
STILES	1-7/8" to 5-3/4"	
BOTTOM RAIL	1-7/8" to 9"	



CLAD UNIT



WOOD UNIT

RECTANGLE FIXED UNITS		MINIMUM	MAXIMUM	RESTRICTIONS
Architect Series®	Fixed			
	Width	1' 5"	4' 11"	Keep frame dimensions to the nearest 1/4" increments.
	Height	1' 2"	6' 1"	
Designer Series®	Fixed			
	Width	1' 5"	4' 11"	Keep frame dimensions to the nearest 1/4" increments.
	Height	1' 5"	6' 1"	
Pella® ProLine 450	Fixed			
	Width	1' 5"	4' 11"	Keep frame dimensions to the nearest 1/4" increments.
	Height	1' 2"	5' 11"	

See Casement section for standard sizes and performance information.



FIXED WINDOW

PRODUCT SELECTION GUIDE

Size and Performance Data



Curved Shapes

	FOR USE WITH:		
	ARCHITECT SERIES®	PELLA® PROLINE 450	SHAPES OTHER CURVED
SIZES			
Standard quarter and half circle	●	●	●
Standard full arch head	●	●	●
Standard partial arch head	●	●	●
Standard elliptical	●	●	●
Standard springline	●	●	●
Standard full circle	●	—	●
Standard oval	●	—	●
Special sizes available	●	—	●
PERFORMANCE ^{1, 2}			
Meets or exceeds AAMA/WDMA ratings - Fin Installation	F-AW40-F-AW50 Hallmark Certified	F-AW40-F-AW50 Hallmark Certified	F-AW40-F-AW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 6.24 psf wind pressure)	0.05	0.05	0.05
Water Resistance	14.2 psf	14.2 psf	14.2 psf
Clip or Screw-through-frame installation	F-AW60-AW90 Hallmark Certified	—	F-AW60-AW90 Hallmark Certified
With HurricaneShield® impact-resistant glass	Up to F-CW75 Hallmark Certified	—	—

Rectangular and Angled Shapes

	RECTANGULAR / ANGLED SHAPES
SIZES	
Custom shapes and sizes made to order	●
INTERIOR GLAZED UNIT PERFORMANCE ^{1, 2}	
Meets or exceeds AAMA/WDMA ratings - Fin Installation	F-AW40-F-AW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 6.24 psf wind pressure)	0.05
Water Resistance	14.2 psf
Clip or Screw-through-frame installation	F-AW60-F-AW90 Hallmark Certified
With HurricaneShield impact-resistant glass	F-CW45-F-CW75 Hallmark Certified

(—) = Not Available

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

(2) AAMA/WDMA F-AW rating can be obtained with the EnduraClad Plus 70% fluoropolymer resin in a multi-step finish system.



FIXED WINDOW

PRODUCT SELECTION GUIDE

Features and Options



CURVED UNITS FOR USE WITH:

Curved
Architect Series®Curved
Pella® ProLine 450Other
Curved ShapesRectangular/
Angled Shapes

GLAZING

Glazing Type

Dual-Pane Insulating Glass	S	S	S	O
Triple-Pane Insulating Glass	O	–	O	O
Clad panel with hardboard core	–	–	–	O

Insulated glass options / Low-E Types

Advanced Low-E	S	O	S	S
SunDefense™ Low-E	O	O	O	O
AdvancedComfort Low-E	O	O	O	O
NaturalSun Low-E	O	O	O	O
Clear (no Low-E coating)	O	–	O	O

Additional Glass Options

Annealed Glass	S	S	S	S
Tempered Glass	O	O	O	O
Obscure Glass ₂	O	O	O	O
Tinted Glass (Bronze, Gray and Green)	O	–	O	O
Spandrel Glass (Fixed Frame Direct Set only)	O	O	O	O
Non-Impact Laminated Single-Pane Glass	O	–	–	O
Hurricaneshield® Impact Resistant Products with Laminated Single-Pane Glass	O	–	–	O
Hurricaneshield® Impact Resistant Products with Laminated Dual-Pane Insulating Glass	O	–	–	O

Gas Fill/High Altitude

Argon	S	S	S	S
Krypton ₅	O	–	O	O
High altitude	O	O	O	O

EXTERIOR

EnduraClad® aluminum-clad exterior	S	S	S	S
EnduraClad Plus aluminum-clad exterior	O	–	O	O

Cladding Colors

White, Tan, Putty or Brown	S	S	S	S
23 Feature colors ₁	O	O	O	O
Custom colors ₂	O	–	O	O

INTERIOR FINISH

Factory primed interior	O	O	O	O
Factory prefinished paint ₂	O	O	O	O
Factory prefinished stain ₂	O	O	O	O

WOOD TYPES

Pine	S	S	S	S
Mahogany	O	–	O	O
Alder	O	–	O	O
Douglas Fir	O	–	O	O

GRILLES

Integral Light Technology® Grilles

Traditional	O	–	O	–
Sunburst	O	–	–	–
Custom	O	–	–	–

Removable Pine Wood Grilles

Traditional	–	O	O ₃	O
Sunburst	–	O	O ₃	–
Custom	–	–	O ₃	–

Grilles-Between-the-Glass

Traditional, Prairie, Cross, Top Row	–	O ₄	O ₄	O
Sunburst	–	O	–	–

S = Standard; O = Optional; (–) = Not Available

(1) See the Clad/Wood Overview Section for feature color options. Poplar White, Hartford Green, Black and Brick Red are the only feature color options available for Pella® ProLine.

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

(3) In select shapes.

(4) In select shapes. Cross and Top Row not available in curved units.

(5) Only available with Triple-Pane glazing, not available with high altitude glazing.



FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNITS

Integral Light Technology® Grille Profile



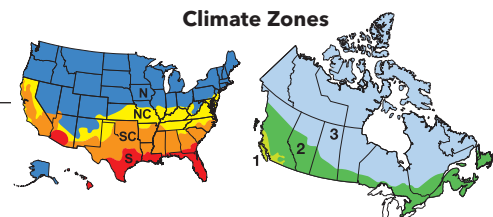
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone				ER	Zone			
INTEGRAL LIGHT TECHNOLOGY® GRILLE PROFILE										N	NC	SC	S		1	2	3	
13/16"	Clear IG		3	3	air	0.46	0.59	62	45									
13/16"	Advanced Low-E IG	PEL-N-18-02077-00001	3	3	argon	0.28	0.28	53	62					21				
13/16"	Advanced Low-E IG	PEL-N-18-02113-00001	4	4	argon	0.27	0.28	52	61					22				
13/16"	Advanced Low-E IG	PEL-N-18-02149-00001	5	5	argon	0.27	0.28	52	60					22				
13/16"	SunDefense™ Low-E IG	PEL-N-18-02085-00001	3	3	argon	0.27	0.21	49	63					18				
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02105-00001	3	3	argon	0.23	0.28	52	50					27				
13/16"	NaturalSun Low-E IG	PEL-N-18-02093-00001	3	3	argon	0.29	0.52	60	62					34				
1"	Clear IG		6	6	air	0.45	0.55	60	44									
1"	Advanced Low-E IG	PEL-N-18-02303-00001	6	6	argon	0.27	0.27	51	60					22				
1"	SunDefense Low-E IG	PEL-N-18-02319-00001	6	6	argon	0.27	0.21	47	61					18				
1"	AdvancedComfort Low-E IG	PEL-N-18-02331-00001	6	6	argon	0.23	0.27	50	48					27				
1"	NaturalSun Low-E IG	PEL-N-18-02311-00001	6	6	argon	0.28	0.49	58	60					33				
TINTED GLAZING																		
13/16"	Bronze Advanced Low-E IG	PEL-N-18-02185-00001	5	3	argon	0.28	0.25	34	63					20				
13/16"	Gray Advanced Low-E IG	PEL-N-18-02193-00001	5	3	argon	0.28	0.23	29	63					18				
13/16"	Green Advanced Low-E IG	PEL-N-18-02201-00001	5	3	argon	0.28	0.24	42	63					19				
13/16"	Reflective Bronze IG	PEL-N-18-02229-00001	5	5	air	0.31	0.26	15	56									
13/16"	Reflective Gray IG	PEL-N-18-02237-00001	5	5	air	0.31	0.24	13	56									
1"	Bronze Advanced Low-E IG	PEL-N-18-02369-00001	6	6	argon	0.27	0.23	31	60					20				
1"	Gray Advanced Low-E IG	PEL-N-18-02377-00001	6	6	argon	0.27	0.21	26	60					18				
1"	Green Advanced Low-E IG	PEL-N-18-02385-00001	6	6	argon	0.27	0.23	39	60					20				
1"	Reflective Bronze IG	PEL-N-18-02389-00001	6	6	air	0.31	0.24	14	56									
1"	Reflective Gray IG	PEL-N-18-02397-00001	6	6	air	0.31	0.21	12	56									
HIGH ALTITUDE GLAZING																		
13/16"	Advanced Low-E IG	PEL-N-18-02073-00001	3	3	air	0.31	0.28	53	58									
13/16"	SunDefense Low-E IG	PEL-N-18-02081-00001	3	3	air	0.31	0.21	49	59									
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02101-00001	3	3	air	0.26	0.28	52	46					24				
13/16"	NaturalSun Low-E IG	PEL-N-18-02089-00001	3	3	air	0.32	0.52	60	58					30				

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.

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





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNITS

Integral Light Technology® Grille Profile
Triple-Pane Glazed



Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performane 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		
INTEGRAL LIGHT TECHNOLOGY® GRILLE PROFILE											N	NC	SC	S		1	2	3
1-1/8"	Advanced Low-E IG	PEL-N-18-02652-00001	3	3	3	argon	0.18	0.27	49	76					33			
1-1/8"	Advanced Low-E IG	PEL-N-18-02656-00001	3	3	3	krypton	0.15	0.27	49	79					37			
1-1/8"	SunDefense™ Low-E IG	PEL-N-18-02664-00001	3	3	3	argon	0.18	0.20	45	76					29			
1-1/8"	SunDefense™ Low-E IG	PEL-N-18-02668-00001	3	3	3	krypton	0.15	0.20	45	80					33			
1-1/8"	NaturalSun Low-E IG	PEL-N-18-02640-00001	3	3	3	argon	0.19	0.45	55	75					42			
1-1/8"	NaturalSun Low-E IG	PEL-N-18-02644-00001	3	3	3	krypton	0.16	0.45	55	79					46			
1-1/4"	Advanced Low-E IG	PEL-N-18-02696-00001	4	4	4	argon	0.18	0.26	48	75					33			
1-1/4"	Advanced Low-E IG	PEL-N-18-02676-00001	4	4	4	krypton	0.15	0.26	48	78					36			
1-1/4"	SunDefense Low-E IG	PEL-N-18-02756-00001	4	4	4	argon	0.18	0.20	44	75					29			
1-1/4"	SunDefense Low-E IG	PEL-N-18-02680-00001	4	4	4	krypton	0.15	0.20	44	79					33			
1-1/4"	NaturalSun Low-E IG	PEL-N-18-02748-00001	4	4	4	argon	0.19	0.43	54	74					41			
1-1/4"	NaturalSun Low-E IG	PEL-N-18-02672-00001	4	4	4	krypton	0.16	0.43	54	78					45			
1-3/8"	Advanced Low-E IG	PEL-N-18-02700-00001	5	5	5	argon	0.18	0.26	47	74					33			
1-3/8"	Advanced Low-E IG	PEL-N-18-02688-00001	5	5	5	krypton	0.15	0.26	47	78					36			
1-3/8"	SunDefense Low-E IG	PEL-N-18-02758-00001	5	5	5	argon	0.18	0.20	44	75					29			
1-3/8"	SunDefense Low-E IG	PEL-N-18-02692-00001	5	5	5	krypton	0.15	0.19	44	78					32			
1-3/8"	NaturalSun Low-E IG	PEL-N-18-02750-00001	5	5	5	argon	0.18	0.42	54	74					42			
1-3/8"	NaturalSun Low-E IG	PEL-N-18-02684-00001	5	5	5	krypton	0.16	0.42	54	78					44			
HIGH ALTITUDE GLAZING																		
1-1/8"	Advanced Low-E IG	PEL-N-18-02648-00001	3	3	3	air	0.22	0.27	49	71					28			
1-1/8"	SunDefense Low-E IG	PEL-N-18-02660-00001	3	3	3	air	0.22	0.20	45	71					24			
1-1/8"	NaturalSun Low-E IG	PEL-N-18-02636-00001	3	3	3	air	0.22	0.45	55	70					39			
1-1/4"	Advanced Low-E IG	PEL-N-18-02704-00001	4	4	4	air	0.22	0.26	48	70					28			
1-1/4"	SunDefense Low-E IG	PEL-N-18-02760-00001	4	4	4	air	0.22	0.20	44	70					24			
1-1/4"	NaturalSun Low-E IG	PEL-N-18-02752-00001	4	4	4	air	0.22	0.43	54	70					37			
1-3/8"	Advanced Low-E IG	PEL-N-18-02708-00001	5	5	5	air	0.22	0.26	47	70					28			
1-3/8"	SunDefense Low-E IG	PEL-N-18-02762-00001	5	5	5	air	0.22	0.20	42	70					24			
1-3/8"	NaturalSun Low-E IG	PEL-N-18-02754-00001	5	5	5	air	0.22	0.42	54	69					37			

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

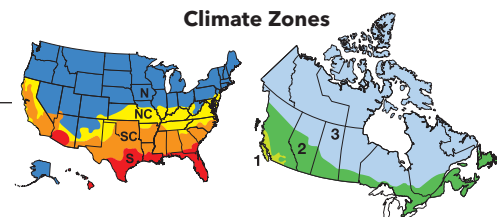
CR = Condensation Resistance

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.

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





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

Hurricane-Shield® Impact-Resistant



Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane 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		
HURRICANESHEILD - LAMINATED IMPACT RESISTANT										N	NC	SC	S	1	2	3	
7/16"	PVB clear single	PEL-N-18-02475-00001	12	NA	NA	0.87	0.65	76	15								
9/16"	SGP clear single	PEL-N-18-02483-00001	14	NA	NA	0.87	0.63	74	15								
9/16"	SGP single Low-E				air	0.51	0.39	66	9								
1"	PVB clear IG	PEL-N-18-02419-00001	12	5	air	0.47	0.55	69	41								
1"	PVB Advanced Low-E IG	PEL-N-18-02403-00001	12	5	argon	0.28	0.31	59	51					23			
	with grilles-between-the-glass	PEL-N-18-02404-00001				0.29	0.28	53	51								
	with integral grilles	PEL-N-18-02405-00001				0.29	0.28	53	56								
1"	PVB SunDefense™ Low-E IG	PEL-N-18-02407-00001	12	5	argon	0.27	0.25	55	56					21			
	with grilles-between-the-glass	PEL-N-18-02408-00001				0.29	0.23	49	60								
	with integral grilles	PEL-N-18-02409-00001				0.28	0.23	49	60					18			
1"	SGP clear IG	PEL-N-18-02423-00001	12	5	air	0.47	0.56	68	41								
1"	SGP Advanced Low-E IG	PEL-N-18-02411-00001	12	5	argon	0.28	0.31	58	51					23			
	with grilles-between-the-glass	PEL-N-18-02412-00001				0.29	0.28	52	51								
	with integral grilles	PEL-N-18-02413-00001				0.29	0.28	52	56								
1"	SGP SunDefense Low-E IG	PEL-N-18-02415-00001	12	5	argon	0.27	0.25	54	56					21			
	with grilles-between-the-glass	PEL-N-18-02416-00001				0.29	0.22	48	60								
	with integral grilles	PEL-N-18-02417-00001				0.28	0.22	48	60					18			
1-1/4"	SGP clear IG	PEL-N-18-02459-00001	14	6	air	0.46	0.53	66	42								
1-1/4"	SGP Advanced Low-E IG	PEL-N-18-02451-00001	14	6	argon	0.28	0.30	57	51					22			
	with grilles-between-the-glass	PEL-N-18-02452-00001				0.28	0.27	51	51					21			
	with integral grilles	PEL-N-18-02453-00001				0.28	0.27	51	56					21			
1-1/4"	SGP SunDefense Low-E IG	PEL-N-18-02455-00001	14	6	argon	0.26	0.24	53	58					21			
	with grilles-between-the-glass	PEL-N-18-02456-00001				0.26	0.22	47	58					20			
	with integral grilles	PEL-N-18-02457-00001				0.27	0.22	47	61					19			
TINTED GLAZING - LAMINATED IMPACT RESISTANT																	
7/16"	Bronze PVB single	PEL-N-18-02477-00001	12	NA	NA	0.87	0.53	46	15								
7/16"	Gray PVB single	PEL-N-18-02479-00001	12	NA	NA	0.87	0.51	36	15								
7/16"	Green PVB single	PEL-N-18-02481-00001	12	NA	NA	0.87	0.39	30	15								
9/16"	Bronze SGP single	PEL-N-18-02485-00001	14	NA	NA	0.87	0.51	45	15								
9/16"	Gray SGP single	PEL-N-18-02487-00001	14	NA	NA	0.87	0.48	38	15								
9/16"	Green SGP single	PEL-N-18-02489-00001	14	NA	air	0.87	0.48	63	15								
1"	Bronze PVB IG	PEL-N-18-02427-00001	12	5	air	0.47	0.43	41	41								
1"	Gray PVB IG	PEL-N-18-02431-00001	12	5	air	0.47	0.41	32	41								
1"	Green PVB IG	PEL-N-18-02435-00001	12	5	air	0.47	0.52	58	41								
1"	Bronze SGP IG	PEL-N-18-02439-00001	12	5	air	0.47	0.42	44	41								
1"	Gray SGP IG	PEL-N-18-02443-00001	12	5	air	0.47	0.40	38	41								
1"	Green SGP IG	PEL-N-18-02447-00001	12	5	air	0.47	0.42	60	41								
1-1/4"	Bronze SGP IG	PEL-N-18-02463-00001	14	6	air	0.47	0.41	41	41								
1-1/4"	Gray SGP IG	PEL-N-18-02467-00001	14	6	air	0.47	0.37	34	41								
1-1/4"	Green SGP IG	PEL-N-18-02471-00001	14	6	air	0.47	0.38	56	41								

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

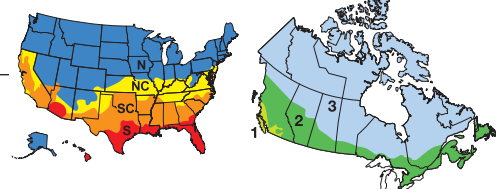
ER = Canadian Energy Rating

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

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

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

Rectangular, Angled and Curved Shapes



Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane 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	1	2	3			
N NC SC S																		
13/16"	Clear IG		3	3	air	0.47	0.68	72	44									
	with grilles-between-the-glass					0.47	0.62	65	44									
13/16"	Clear IG		4	4	air	0.47	0.66	72	43									
	with grilles-between-the-glass					0.47	0.60	64	43									
13/16"	Advanced Low-E IG	PEL-N-18-02075-00001	3	3	argon	0.28	0.32	62	59					24				
	with grilles-between-the-glass	PEL-N-18-02076-00001				0.28	0.29	55	59					22				
13/16"	Advanced Low-E IG	PEL-N-18-02111-00001	4	4	argon	0.27	0.32	61	58					25				
	with grilles-between-the-glass	PEL-N-18-02112-00001				0.27	0.29	55	58					23				
13/16"	Advanced Low-E IG	PEL-N-18-02147-00001	5	5	argon	0.27	0.32	60	57					25				
	with grilles-between-the-glass	PEL-N-18-02148-00001				0.27	0.29	54	57					23				
13/16"	SunDefense™ Low-E IG	PEL-N-18-02083-00001	3	3	argon	0.27	0.24	57	60					20				
	with grilles-between-the-glass	PEL-N-18-02084-00001				0.27	0.22	51	60					19				
13/16"	SunDefense™ Low-E IG	PEL-N-18-02119-00001	4	4	argon	0.27	0.24	56	59					20				
	with grilles-between-the-glass	PEL-N-18-02120-00001				0.27	0.22	51	59					19				
13/16"	SunDefense™ Low-E IG	PEL-N-18-02155-00001	5	5	argon	0.27	0.24	56	58					20				
	with grilles-between-the-glass	PEL-N-18-02156-00001				0.27	0.22	50	58					19				
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02103-00001	3	3	argon	0.23	0.32	60	47					30				
	with grilles-between-the-glass	PEL-N-18-02104-00001				0.23	0.29	54	47					28				
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02139-00001	4	4	argon	0.23	0.31	59	46					29				
	with grilles-between-the-glass	PEL-N-18-02140-00001				0.23	0.28	53	46					27				
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02175-00001	5	5	argon	0.23	0.31	59	45					29				
	with grilles-between-the-glass	PEL-N-18-02176-00001				0.23	0.28	53	45					27				
13/16"	NaturalSun Low-E IG	PEL-N-18-02091-00001	3	3	argon	0.29	0.60	70	59					38				
	with grilles-between-the-glass	PEL-N-18-02092-00001				0.29	0.55	62	59					36				
13/16"	NaturalSun Low-E IG	PEL-N-18-02127-00001	4	4	argon	0.28	0.59	69	58					39				
	with grilles-between-the-glass	PEL-N-18-02128-00001				0.28	0.53	62	58					36				
13/16"	NaturalSun Low-E IG	PEL-N-18-02163-00001	5	5	argon	0.28	0.58	68	57					39				
	with grilles-between-the-glass	PEL-N-18-02164-00001				0.28	0.52	61	57					35				
1"	Advanced Low-E IG	PEL-N-18-02301-00001	6	6	argon	0.27	0.31	60	58					24				
	with grilles-between-the-glass	PEL-N-18-02302-00001				0.27	0.29	54	58					23				
1"	SunDefense™ Low-E IG	PEL-N-18-02317-00001	6	6	argon	0.27	0.24	55	58					20				
	with grilles-between-the-glass	PEL-N-18-02318-00001				0.27	0.22	50	58					19				
1"	AdvancedComfort Low-E IG	PEL-N-18-02329-00001	6	6	argon	0.23	0.31	58	46					29				
	with grilles-between-the-glass	PEL-N-18-02330-00001				0.23	0.28	52	46					27				
1"	NaturalSun Low-E IG	PEL-N-18-02309-00001	6	6	argon	0.28	0.56	67	57					37				
	with grilles-between-the-glass	PEL-N-18-02310-00001				0.28	0.51	61	57					35				
TINTED GLAZING																		
13/16"	Bronze Advanced Low-E IG	PEL-N-18-02183-00001	5	3	argon	0.27	0.29	40	60					23				
	with grilles-between-the-glass	PEL-N-18-02184-00001				0.27	0.26	36	60					21				
13/16"	Gray Advanced Low-E IG	PEL-N-18-02191-00001	5	3	argon	0.27	0.26	34	60					21				
	with grilles-between-the-glass	PEL-N-18-02192-00001				0.27	0.24	31	60					20				
13/16"	Green Advanced Low-E IG	PEL-N-18-02199-00001	5	3	argon	0.27	0.28	48	60					22				
	with grilles-between-the-glass	PEL-N-18-02200-00001				0.27	0.25	43	60					21				
13/16"	Reflective Bronze IG	PEL-N-18-02227-00001	5	5	air	0.31	0.30	18	54									
	with grilles-between-the-glass	PEL-N-18-02228-00001				0.31	0.27	16	54									
13/16"	Reflective Gray IG	PEL-N-18-02235-00001	5	5	air	0.31	0.27	15	54									
	with grilles-between-the-glass	PEL-N-18-02236-00001				0.31	0.24	14	54									
1"	Reflective Bronze IG	PEL-N-18-02387-00001	6	6	air	0.31	0.27	16	54									
	with grilles-between-the-glass	PEL-N-18-02388-00001				0.31	0.25	15	54									
1"	Reflective Gray IG	PEL-N-18-02395-00001	6	6	air	0.31	0.25	13	54									
	with grilles-between-the-glass	PEL-N-18-02396-00001				0.31	0.22	12	54									



FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

Rectangular, Angled and Curved Shapes



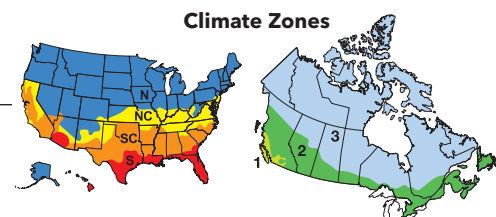
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane Values ₁				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone				ER	Zone			
HIGH ALTITUDE GLAZING										N	NC	SC	S		1	2	3	
13/16"	Advanced Low-E IG	PEL-N-18-02071-00001	3	3	air	0.32	0.33	62	56									
	with grilles-between-the-glass	PEL-N-18-02072-00001				0.32	0.30	55	56									
13/16"	Advanced Low-E IG	PEL-N-18-02107-00001	4	4	air	0.31	0.32	61	55									
	with grilles-between-the-glass	PEL-N-18-02108-00001				0.31	0.29	55	55									
13/16"	Advanced Low-E IG	PEL-N-18-02143-00001	5	5	air	0.31	0.32	60	54									
	with grilles-between-the-glass	PEL-N-18-02144-00001				0.31	0.29	54	54									
13/16"	SunDefense™ Low-E IG	PEL-N-18-02079-00001	3	3	air	0.31	0.24	57	56									
	with grilles-between-the-glass	PEL-N-18-02080-00001				0.31	0.22	51	56									
13/16"	SunDefense™ Low-E IG	PEL-N-18-02115-00001	4	4	air	0.31	0.25	56	55									
	with grilles-between-the-glass	PEL-N-18-02116-00001				0.31	0.22	51	55									
13/16"	SunDefense™ Low-E IG	PEL-N-18-02151-00001	5	5	air	0.31	0.25	56	54									
	with grilles-between-the-glass	PEL-N-18-02152-00001				0.31	0.22	50	54									
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02099-00001	3	3	air	0.26	0.32	60	44						26			
	with grilles-between-the-glass	PEL-N-18-02100-00001				0.26	0.29	54	44						24			
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02135-00001	4	4	air	0.25	0.31	59	43						27			
	with grilles-between-the-glass	PEL-N-18-02136-00001				0.25	0.28	53	43						25			
13/16"	AdvancedComfort Low-E IG	PEL-N-18-02171-00001	5	5	air	0.26	0.31	59	42						25			
	with grilles-between-the-glass	PEL-N-18-02172-00001				0.26	0.28	53	42						24			
1"	Advanced Low-E IG	PEL-N-18-02297-00001	6	6	air	0.31	0.32	60	54									
	with grilles-between-the-glass	PEL-N-18-02298-00001				0.31	0.29	54	54									
1"	SunDefense™ Low-E IG	PEL-N-18-02313-00001	6	6	air	0.31	0.25	55	55									
	with grilles-between-the-glass	PEL-N-18-02314-00001				0.31	0.22	50	55									
1"	AdvancedComfort Low-E IG	PEL-N-18-02325-00001	6	6	air	0.25	0.31	58	43						27			
	with grilles-between-the-glass	PEL-N-18-02326-00001				0.25	0.31	52	43						27			
HIGH ALTITUDE TINTED GLAZING																		
13/16"	Bronze Advanced Low-E IG	PEL-N-18-02179-00001	5	3	air	0.31	0.29	40	56									
13/16"	Gray Advanced Low-E IG	PEL-N-18-02187-00001	5	3	air	0.31	0.27	34	56									
13/16"	Green Advanced Low-E IG	PEL-N-18-02195-00001	5	3	air	0.31	0.28	48	56									

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.

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





FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNITS

Rectangular, Angled and Curved Shapes
Triple-Pane Glazed



Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)			Gap Fill	Performane 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		
INTEGRAL LIGHT TECHNOLOGY® GRILLE PROFILE											N	NC	SC	S		1	2	3
1-1/8"	Advanced Low-E IG	PEL-N-18-02650-00001	3	3	3	argon	0.18	0.29	54	72					34			
	with grilles-between-the-glass	PEL-N-18-02651-00001					0.18	0.27	49	72					33			
1-1/8"	Advanced Low-E IG	PEL-N-18-02654-00001	3	3	3	Krypton	0.15	0.29	54	75					38			
	with grilles-between-the-glass	PEL-N-18-02655-00001					0.15	0.27	49	75					37			
1-1/8"	SunDefense™ Low-E IG	PEL-N-18-02662-00001	3	3	3	argon	0.17	0.22	50	72					31			
	with grilles-between-the-glass	PEL-N-18-02663-00001					0.18	0.20	45	72					29			
1-1/8"	SunDefense™ Low-E IG	PEL-N-18-02666-00001	3	3	3	Krypton	0.15	0.22	50	75					34			
	with grilles-between-the-glass	PEL-N-18-02667-00001					0.15	0.20	45	75					33			
1-1/8"	NaturalSun Low-E IG	PEL-N-18-02638-00001	3	3	3	argon	0.18	0.49	61	72					46			
	with grilles-between-the-glass	PEL-N-18-02639-00001					0.18	0.45	55	72					44			
1-1/8"	NaturalSun Low-E IG	PEL-N-18-02642-00001	3	3	3	Krypton	0.15	0.49	61	75					50			
	with grilles-between-the-glass	PEL-N-18-02643-00001					0.15	0.45	55	75					47			
1-1/4"	Advanced Low-E IG	PEL-N-18-02694-00001	4	4	4	argon	0.17	0.29	53	72					36			
	with grilles-between-the-glass	PEL-N-18-02695-00001					0.18	0.26	48	72					33			
1-1/4"	Advanced Low-E IG	PEL-N-18-02674-00001	4	4	4	Krypton	0.15	0.28	53	75					37			
	with grilles-between-the-glass	PEL-N-18-02675-00001					0.15	0.26	48	75					36			
1-1/4"	SunDefense Low-E IG	PEL-N-18-02579-00001	4	4	4	argon	0.17	0.22	49	72					31			
	with grilles-between-the-glass	PEL-N-18-02580-00001					0.18	0.20	44	72					29			
1-1/4"	SunDefense Low-E IG	PEL-N-18-02678-00001	4	4	4	Krypton	0.14	0.21	49	75					35			
	with grilles-between-the-glass	PEL-N-18-02679-00001					0.15	0.20	44	75					33			
	with integral grilles	PEL-N-18-02680-00001					0.15	0.20	44	79					33			
1-1/4"	NaturalSun Low-E IG	PEL-N-18-02549-00001	4	4	4	argon	0.18	0.48	61	71					45			
	with grilles-between-the-glass	PEL-N-18-02550-00001					0.18	0.43	54	71					42			
1-1/4"	NaturalSun Low-E IG	PEL-N-18-02670-00001	4	4	4	Krypton	0.15	0.48	61	74					49			
	with grilles-between-the-glass	PEL-N-18-02671-00001					0.15	0.43	54	74					46			
1-3/8"	Advanced Low-E IG	PEL-N-18-02698-00001	5	5	5	argon	0.17	0.28	53	71					35			
	with grilles-between-the-glass	PEL-N-18-02699-00001					0.18	0.26	47	71					33			
1-3/8"	Advanced Low-E IG	PEL-N-18-02686-00001	5	5	5	Krypton	0.15	0.28	53	74					37			
	with grilles-between-the-glass	PEL-N-18-02687-00001					0.15	0.26	47	74					36			
1-3/8"	SunDefense Low-E IG	PEL-N-18-02624-00001	5	5	5	argon	0.17	0.22	49	72					31			
	with grilles-between-the-glass	PEL-N-18-02625-00001					0.17	0.20	44	72					30			
	with integral grilles	PEL-N-18-02758-00001					0.18	0.20	44	75					29			
1-3/8"	SunDefense Low-E IG	PEL-N-18-02690-00001	5	5	5	Krypton	0.14	0.21	49	74					35			
	with grilles-between-the-glass	PEL-N-18-02691-00001					0.15	0.19	44	74					32			
1-3/8"	NaturalSun Low-E IG	PEL-N-18-02594-00001	5	5	5	argon	0.18	0.47	60	71					45			
	with grilles-between-the-glass	PEL-N-18-02595-00001					0.18	0.42	54	71					42			
1-3/8"	NaturalSun Low-E IG	PEL-N-18-02682-00001	5	5	5	Krypton	0.15	0.47	60	74					48			
	with grilles-between-the-glass	PEL-N-18-02683-00001					0.15	0.42	54	74					46			
HIGH ALTITUDE GLAZING																		
1-1/8"	Advanced Low-E HA IG	PEL-N-18-02646-00001	3	3	3	air	0.21	0.30	54	68					31			
	with grilles-between-the-glass	PEL-N-18-02647-00001					0.22	0.27	49	68					28			
1-1/8"	SunDefense Low-E HA IG	PEL-N-18-02658-00001	3	3	3	air	0.21	0.22	50	68					26			
	with grilles-between-the-glass	PEL-N-18-02659-00001					0.21	0.20	45	68					25			
1-1/8"	NaturalSun Low-E HA IG	PEL-N-18-02634-00001	3	3	3	air	0.21	0.49	61	68					42			
	with grilles-between-the-glass	PEL-N-18-02635-00001					0.22	0.45	55	68					39			
1-1/4"	Advanced Low-E HA IG	PEL-N-18-02702-00001	4	4	4	air	0.21	0.29	53	68					31			
	with grilles-between-the-glass	PEL-N-18-02703-00001					0.21	0.26	48	68					29			
1-1/4"	SunDefense Low-E HA IG	PEL-N-18-02574-00001	4	4	4	air	0.21	0.22	49	68					26			
	with grilles-between-the-glass	PEL-N-18-02575-00001					0.21	0.20	44	68					25			
1-1/4"	NaturalSun Low-E HA IG	PEL-N-18-02544-00001	4	4	4	air	0.21	0.48	61	67					42			
	with grilles-between-the-glass	PEL-N-18-02545-00001					0.22	0.43	54	67					37			
1-3/8"	Advanced Low-E HA IG	PEL-N-18-02706-00001	5	5	5	air	0.21	0.29	53	68					31			
	with grilles-between-the-glass	PEL-N-18-02707-00001					0.21	0.26	47	68					29			
1-3/8"	SunDefense Low-E HA IG	PEL-N-18-02620-00001	5	5	5	air	0.21	0.20	44	68					25			
	with grilles-between-the-glass	PEL-N-18-02621-00001					0.20	0.19	42	70					26			
1-3/8"	NaturalSun Low-E HA IG	PEL-N-18-02589-00001	5	5	5	air	0.21	0.47	60	67					41			
	with grilles-between-the-glass	PEL-N-18-02590-00001					0.22	0.42	54	67					37			



FIXED WINDOW

GLAZING PERFORMANCE - TOTAL UNIT

Rectangular Exterior Glazed



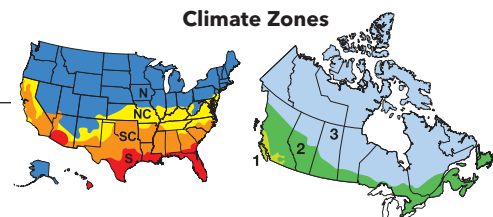
Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performane Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada ₂				
										Zone				ER	Zone			
EXTERIOR GLAZED											N	NC	SC	S		1	2	3
5/8"	Advanced Low-E IG	PEL-N-113-00225-00001	3	3	argon	0.28	0.33	61	57					24				
	with grilles-between-the-glass	PEL-N-113-00224-00001				0.30	0.30	55	57									
5/8"	SunDefense™ Low-E IG	PEL-N-113-00351-00001	3	3	argon	0.29	0.24	57	55									
	with grilles-between-the-glass	PEL-N-113-00350-00001				0.30	0.22	51	55									
5/8"	AdvancedComfort Low-E IG	PEL-N-113-00749-00001	3	3	argon	0.24	0.32	60	44					29				
	with grilles-between-the-glass	PEL-N-113-00748-00001				0.25	0.29	54	44					26				
5/8"	NaturalSun Low-E IG	PEL-N-113-00425-00001	3	3	argon	0.29	0.60	69	56					38				
	with grilles-between-the-glass	PEL-N-113-00422-00001				0.31	0.54	62	56					33				
TINTED GLAZING																		
5/8"	Bronze Advanced Low-E IG	PEL-N-113-00267-00001	5	3	argon	0.29	0.28	40	58									
	with grilles-between-the-glass	PEL-N-113-00266-00001				0.29	0.26	36	58									
5/8"	Gray Advanced Low-E IG	PEL-N-113-00283-00001	5	3	argon	0.29	0.26	34	58									
	with grilles-between-the-glass	PEL-N-113-00282-00001				0.29	0.24	31	58									
5/8"	Green Advanced Low-E IG	PEL-N-113-00299-00001	5	3	argon	0.29	0.28	48	58									
	with grilles-between-the-glass	PEL-N-113-00298-00001				0.29	0.25	43	58									
HIGH ALTITUDE GLAZING																		
5/8"	Advanced Low-E IG	PEL-N-113-00231-00001	3	3	air	0.34	0.33	61	51									
	with grilles-between-the-glass	PEL-N-113-00230-00001				0.36	0.30	55	51									
5/8"	SunDefense Low-E IG	PEL-N-113-00357-00001	3	3	air	0.33	0.25	57	53									
	with grilles-between-the-glass	PEL-N-113-00356-00001				0.35	0.23	51	53									
5/8"	AdvancedComfort Low-E IG	PEL-N-113-00763-00001	3	3	air	0.27	0.32	60	43					25				
	with grilles-between-the-glass	PEL-N-113-00750-00001				0.29	0.29	54	40									
5/8"	NaturalSun Low-E IG	PEL-N-113-00437-00001	3	3	air	0.34	0.60	69	52					32				
	with grilles-between-the-glass	PEL-N-113-00435-00001				0.36	0.54	62	52					26				

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.

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





FIXED WINDOW

SOUND TRANSMISSION CLASS AND OUTDOOR-INDOOR TRANSMISSION CLASS

Combination Assemblies



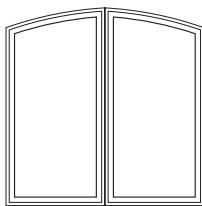
Product	Frame Size Tested ₁	Glazing System			STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness		
RECTANGULAR AND ANGLED SHAPED CLAD WINDOW	47" x 59"	FIXED LAMINATED GLAZING				
		1"	11.7mm PVB	5mm	34	30
		1"	11.7mm SGP	5mm	34	30
		1-1/4"	13.6mm SGP	5mm	37	32
		FIXED-DOUBLE-PANE GLAZING				
		13/16"	5mm	5mm	31	26

CURVED SHAPES

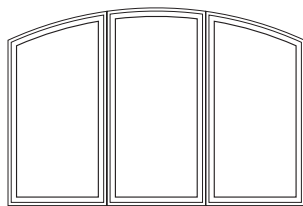
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a combination or reinforcing mullion.

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, and may vary between Architect Series®, Designer Series® and Pella® ProLine. See the Combinations section for typical combinations and requirements and limitations related to mulling various combinations.

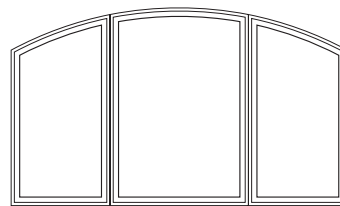
Contact your local Pella sales representative for more information.



Two-Wide



Three-Wide Equal



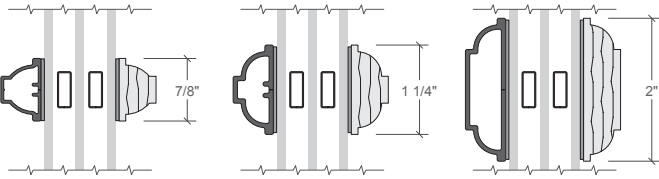
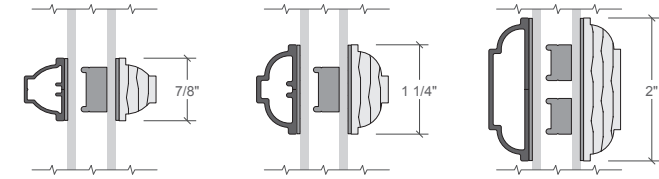
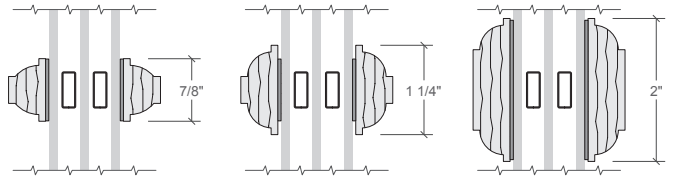
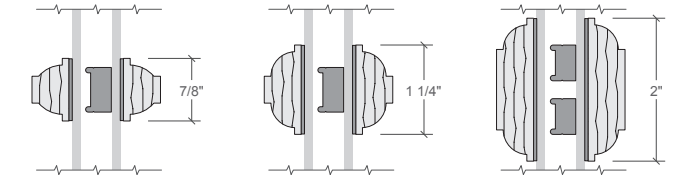
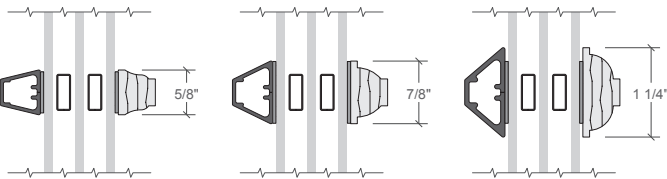
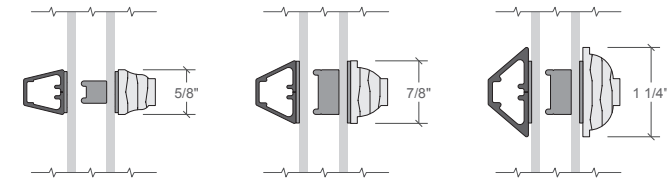
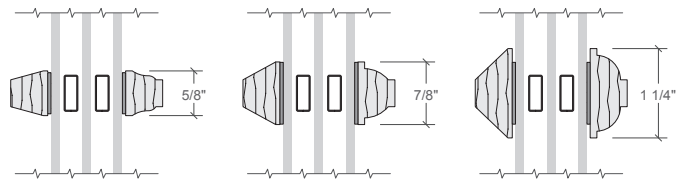
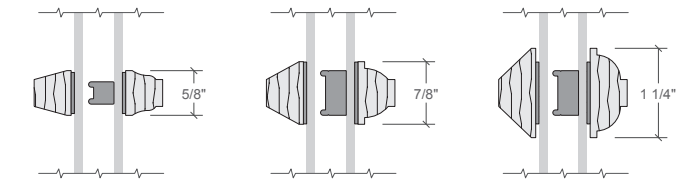
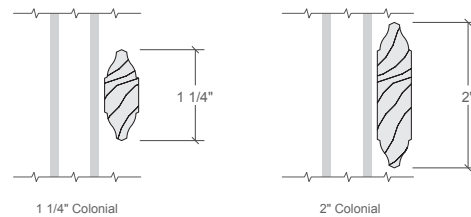
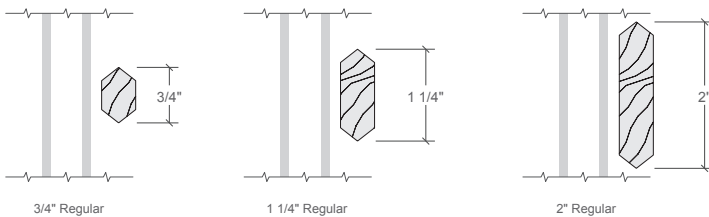
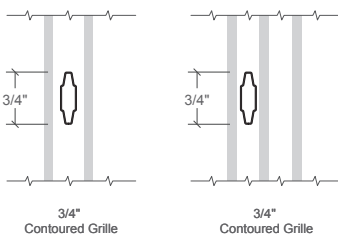
Three-Wide Unequal



FIXED WINDOW

GRILLE TYPES

Removable Interior and Grilles-Between-the-Glass
For ILT and SDL Grilles Profiles

**Integral Light Technology****Ogee Grilles**Clad Exterior - Wood Interior₁**Ogee Grilles**Wood Exterior - Wood Interior₂**Putty Glaze and Ogee Grilles**Clad Exterior - Wood Interior_{1,3}**Putty Glaze and Ogee Grilles**Wood Exterior - Wood Interior_{2,3}**Removable Interior Pine Grilles****Grilles-Between-the-Glass**

Not all pattern scenarios are shown above. Actual pattern may differ depending on size, shape and grille spacing. See Pella sales representative for actual patterns.

(1) Available in Pine, Mahogany, Alder or Douglas Fir to match complete unit.

(2) Available in Pine or Mahogany to match complete unit.

(3) Putty Exterior/Putty Interior, Ogee Exterior/Putty Interior are also available.



FIXED WINDOW

GRILLE PATTERNS

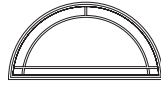
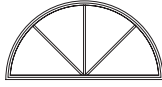
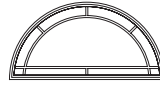
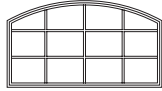
Aluminum-Clad Wood

Curved Shapes

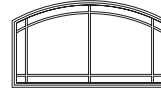
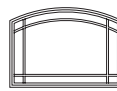


Below are examples of typical combination assemblies showing grille alignment of half circles and quarter circles over casements, hung, hinged and sliding doors. For specific information contact your local Pella sales representative.

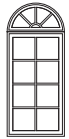
TYPICAL GRILLE PATTERNS

FW $\leq 71"$ FW $> 71"$ 

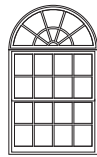
SHORT SIDE 8"

FW $> 47"$

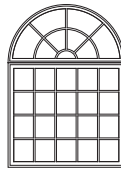
HALF AND QUARTER CIRCLE



Casement



Double-Hung



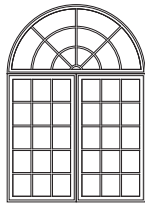
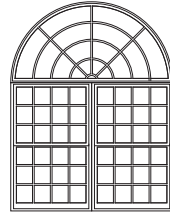
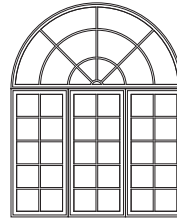
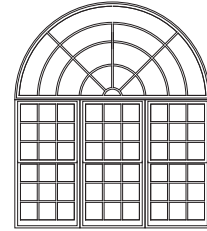
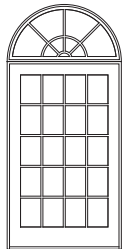
Large Fixed



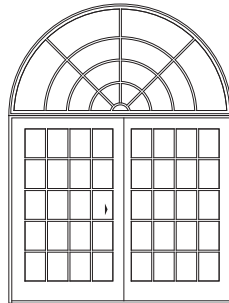
Casement



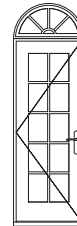
Double-Hung

2-Wide
Casement2-Wide
Double-Hung3-Wide
Casement3-Wide
Double-Hung

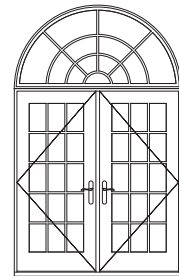
Fixed Door



Sliding Patio Door



Hinged Door



2-Panel Hinged Door

ELLIPTICAL



Elliptical

SPRINGLINE



Springline

FULL CIRCLE



Circle

OVALS

4-Lite
Traditional5-Lite
with Rays9-Lite
with Sunburst17-Lite
with Sunburst



FIXED WINDOW

GRILLE PATTERNS

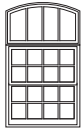
Aluminum-Clad Wood

Arch Heads

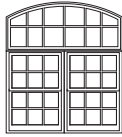
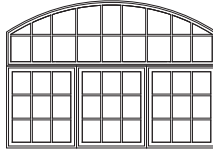
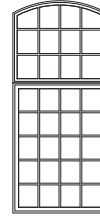


Below are examples of typical combination assemblies showing grille alignment of arch heads over casements, hung, and hinged doors. For specific information contact your local Pella sales representative.

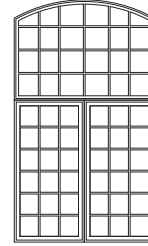
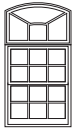
FULL ARCH HEADS



Double-Hung

2-Wide
Double-Hung3-Wide
Double-Hung

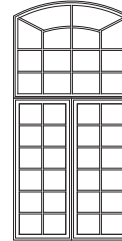
Large Fixed

2-Wide
Large Fixed

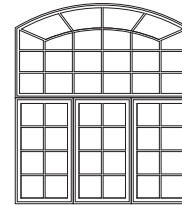
Double-Hung

2-Wide
Double-Hung

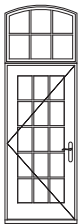
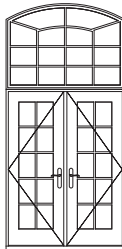
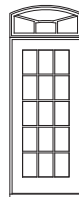
Fixed



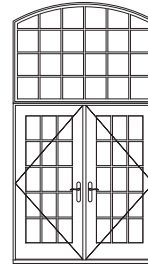
2-Wide Fixed



3-Wide Fixed

Single Panel
Hinged Door2-Panel
Hinged Door

Fixed Panel

2-Panel
Hinged Door

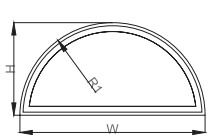


FIXED WINDOW

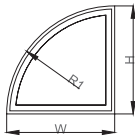
CURVED SHAPES AND SIZES

Aluminum-Clad Wood

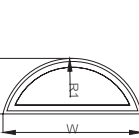
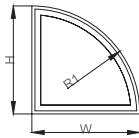
Removable Grilles and Grilles-Between-the-Glass



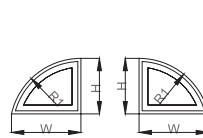
Half Circle



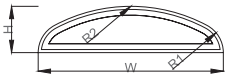
Quarter Circle



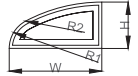
Full Chord



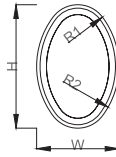
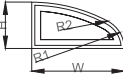
Partial Chord



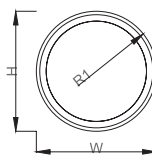
Full Elliptical



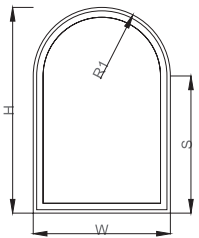
Half Elliptical



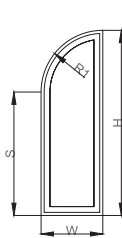
Oval



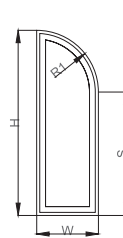
Full Circle



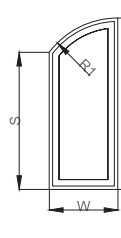
Full Springline



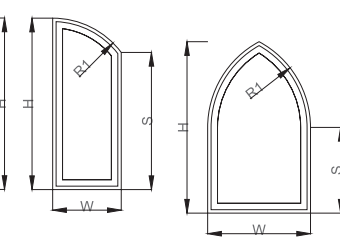
Partial Springline



Full Arch Head



Partial Arch Head



Cathedral/Gothic

DESCRIPTION	FRAME RADIUS		WIDTH		HEIGHT				MIN. UNIT FRAME ANGLE	MAX. UNIT FRAME ANGLE	MAX. SQUARE FOOTAGE
	Min.	Max.	Min.	Max.	Min.	Max.	Min. S	Other			
Half Circle	12"	54"	24"	108"	—	—	—	—	—	—	50
Quarter Circle	12"	74"	12"	74"	—	—	—	—	—	—	38
Full Springline	12"	48"	24"	96"	R + 8"	96"	8"	—	—	—	38
Half Springline	12"	96"	14"	96"	R + 8"	96"	8"	—	40°	90°	38
Full Chord	12"	150"	24" > 2 H	108"	10.5"	(W/2)-1"	—	> 0.24 W	40°	< 90°	38
Partial Chord ₂	12"	150"	17" > H	108"	10.5"	74"	—	> 0.48 W	40°	< 90°	38
Full Elliptical	12" ₁	150"	24"	108"	R2 + 1	48"	—	—	—	—	38
Half Elliptical	12" ₁	150"	14"	108"	R2 + 1	60"	—	—	40°	90°	38
Full Arch Head	12"	150"	24" > 3 (H-S)	108"	H > S	96"	8"	—	90°	160°	50
Partial Arch Head	12"	150"	14" > 0.82 (H-S)	108" ≤ 1.88 R	H > S	96"	8"	—	40°	160°	38
Cathedral/Gothic	12"	150"	24"	108"	H > S	96"	8"	—	40°	—	38
Full Circle ₃	12"	24"	24"	48"	—	—	—	—	—	—	38
Oval ₃	Standard sizes only. See Size Tables.										

Miscellaneous Formulas

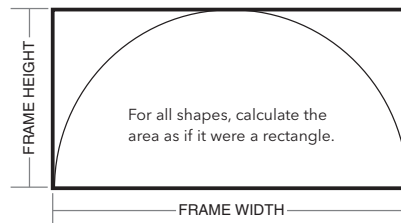
CLAD

VISIBLE GLASS

Width = Frame - 3-1/4"
Height = Frame - 3-1/4"

ACTUAL GLASS

Width = Frame - 2"
Height = Frame - 2"



(—) = Not applicable

(1) Minor radius must begin at the baseline of the frame.

(2) Project shape to full chord, using full chord width (W), calculate minimum height restrictions using full chord parameters.

(3) Tempered glass is required for any units where glass dimensions exceed 48"

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



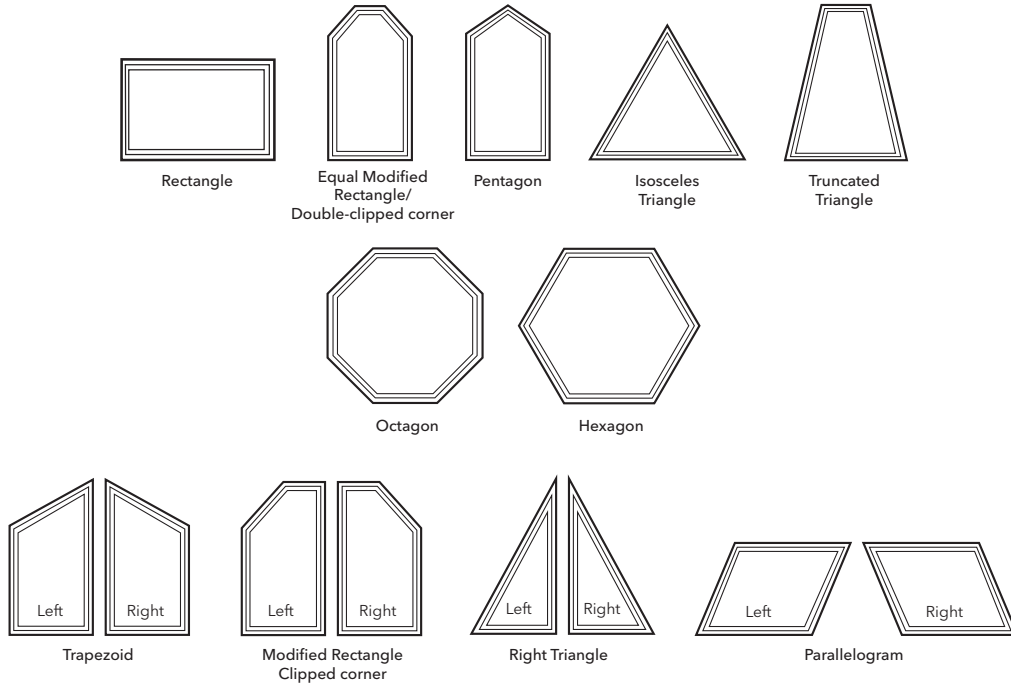
FIXED WINDOW

CUSTOM ANGLED SHAPES AND SIZES

Aluminum-Clad Wood
Interior Glazed



Pella angled and rectangular fixed frame direct set windows are available in custom shapes shown below. These windows may be installed in any orientation. For specifications, size limitations, and details on these units, contact your local Pella sales representative.



GLAZING	FRAME DIMENSION		PANEL DIMENSION	
	Minimum Size	Maximum Size ¹	Minimum Size	Maximum Size
GLASS	8" x 8" (203 x 203)	10' 0" ₂ or 50.3 ft ² (3 048) or (4.67 m ²)	—	—
CLAD PANEL (AVAILABLE IN RECTANGULAR UNITS ONLY)	8" x 8" (203 x 203)	4' 2" x 8' 2" (1 270 x 2 489)	6" x 6" (152 x 152)	48" x 96" (1 219 x 2 438)

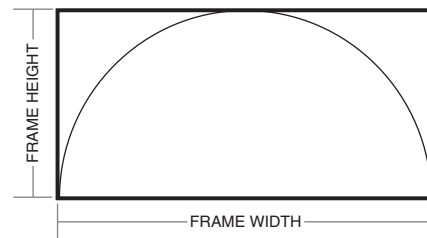
Miscellaneous Formulas for Rectangular Units

VISIBLE GLASS

Visible Glass Width = Frame Width - 3-1/4"
Visible Glass Height = Frame Height - 3-1/4"

ACTUAL GLASS

Actual Glass Width = Frame Width - 2"
Actual Glass Height = Frame Height - 2"



(-) = Not applicable

- Keep frame dimension to the nearest 1/8".
- See Performance Grade chart for size limitations.
- Glass width to height ratio maximums: annealed glass 1 to 5, tempered glass 1 to 10.

- (1) For all shapes, calculate the area of the unit as if it were rectangular.
(2) In one direction with frame area as specified (subject to glass availability).
Corner angles for all shapes are minimum 20° and maximum 160°.



FIXED WINDOW

SIZE AND GLAZING OPTIONS

Aluminum-Clad Wood

Exterior Glazed Rectangular Shapes



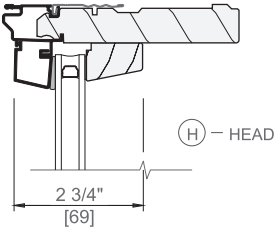
Exterior glazed windows are available as rectangles only.

GLAZING	FRAME DIMENSION		PANEL DIMENSION	
	Minimum Size	Maximum Size ₁	Minimum Size	Maximum Size
GLASS	8" x 8" (203 x 203)	8' 0" ₁ or 38.0 ft ² (2 438) (3.53 m ²)	—	—
CLAD PANEL	8" x 8" (203 x 203)	4' 2-3/8" x 8' 2-3/8" (1 280 x 2 499)	5-5/8" x 5-5/8" (143 x 143)	48" x 96" (1 219 x 2 438)

Miscellaneous Formulas

VISIBLE GLASS	Visible Glass Width = Frame Width - 3-3/8" Visible Glass Height = Frame Height - 3-3/8"
ACTUAL GLASS	Actual Glass Width = Frame Width - 2-3/8" Actual Glass Height = Frame Height - 2-3/8"

Designed for applications where exterior reglazing is necessary due to inaccessibility from the interior. Is not intended for initial field glazing.

GLAZING OPTIONS	STANDARD	SPECIAL	CUSTOM ₂
	Clear or Advanced Low-E Insulated Glass with Argon	Bronze, Gray, Green, Obscure	Spandrel

(-) = Not applicable

(1) In one direction with frame area as specified (subject to glass availability).

(2) Consult your Pella representative for parameters and availability of custom glazings.



FIXED WINDOW

SIZE TABLES

Combination Assemblies
Elliptical and Oval Shapes



Elliptical Units

	(1 524) (1 505)		(1 829) (1 810)
Opening	5' 0"	Opening	6' 0"
Frame	4' 11 1/4"	Frame	5' 11 1/4"
1' 3 3/4"		1' 6 3/4"	
1' 3"		1' 6"	
	6015		7218
	Minor Radius = 12"		Minor Radius = 13"
	Major Radius = 65 1/4"		Major Radius = 66 11/16"

Ovals

	(629) (610)	(629) (610)	(629) (610)	
Opening	2' 0 3/4"	2' 0 3/4"	2' 0 3/4"	
Frame	2' 0"	2' 0"	2' 0"	
3' 0 3/4"				
3' 0"				
	2436	2436	2436	
	4-LITE	5-LITE	9-LITE	
	TRADITIONAL	WITH RAYS	WITH SUNBURST	

	(781) (762)	(781) (762)	(781) (762)	(781) (762)
Opening	2' 6 3/4"	2' 6 3/4"	2' 6 3/4"	2' 6 3/4"
Frame	2' 6"	2' 6"	2' 6"	2' 6"
4' 0 3/4"				
4' 0"				
	3048	3048	3048	3048
	4-LITE	5-LITE	9-LITE	17-LITE
	TRADITIONAL	WITH RAYS	WITH SUNBURST	WITH SUNBURST

	(933) (914)	(933) (914)	(933) (914)	(933) (914)
Opening	3' 0 3/4"	3' 0 3/4"	3' 0 3/4"	3' 0 3/4"
Frame	3' 0"	3' 0"	3' 0"	3' 0"
5' 0 3/4"				
5' 0"				
	3660	3660	3660	3660
	4-LITE	5-LITE	9-LITE	17-LITE
	TRADITIONAL	WITH RAYS	WITH SUNBURST	WITH SUNBURST

Not to scale.

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



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood
Half Circle for ILT Grilles



(654) (635) Opening 2' 1³/₄" Frame 2' 1" (337) (318) 1' 1¹/₄" 1' 0¹/₂" 2513	(756) (737) Opening 2' 5³/₄" Frame 2' 5" (387) (368) 1' 3¹/₄" 1' 2¹/₂" 2915	(857) (838) Opening 2' 9³/₄" Frame 2' 9" (438) (419) 1' 5¹/₄" 1' 4¹/₂" 3317	(883) (864) Opening 2' 10³/₄" Frame 2' 10" (451) (432) 1' 5³/₄" 1' 5" 3417	(908) (889) Opening 2' 11³/₄" Frame 2' 11" (464) (445) 1' 6¹/₄" 1' 5¹/₂" 3518
(959) (940) Opening 3' 1³/₄" Frame 3' 1" (489) (470) 1' 7¹/₄" 1' 6¹/₂" 3719	(1 060) (1 041) Opening 3' 5³/₄" Frame 3' 5" (540) (521) 1' 9¹/₄" 1' 8¹/₂" 4121	(1 086) (1 067) Opening 3' 6³/₄" Frame 3' 6" (552) (533) 1' 9³/₄" 1' 9" 4221	(1 162) (1 143) Opening 3' 9³/₄" Frame 3' 9" (591) (572) 1' 11¹/₄" 1' 10¹/₂" 4523	
(1 187) (1 168) Opening 3' 10³/₄" Frame 3' 10" (603) (584) 1' 11³/₄" 1' 11" 4623	(1 213) (1 194) Opening 3' 11³/₄" Frame 3' 11" (616) (597) 2' 0¹/₄" 1' 11¹/₂" 4724	(1 289) (1 270) Opening 4' 2³/₄" Frame 4' 2" (654) (635) 2' 1³/₄" 2' 1" 5025	(1 314) (1 295) Opening 4' 3³/₄" Frame 4' 3" (667) (648) 2' 2¹/₄" 2' 1¹/₂" 5126	
(1 365) (1 346) Opening 4' 5³/₄" Frame 4' 5" (692) (673) 2' 3¹/₄" 2' 2¹/₂" 5327	(1 492) (1 473) Opening 4' 10³/₄" Frame 4' 10" (756) (737) 2' 5³/₄" 2' 5" 5829	(1 524) (1 505) Opening 5' 0" Frame 4' 11" (768) (749) 2' 6¹/₄" 2' 5¹/₂" 5930	(1 524) (1 505) Opening 5' 0" Frame 4' 11¹/₄" (772) (752) 2' 6³/₈" 2' 5⁵/₈" 6030	
(1 619) (1 600) Opening 5' 3³/₄" Frame 5' 3" (819) (800) 2' 8¹/₄" 2' 7¹/₂" 6332	(1 695) (1 676) Opening 5' 6³/₄" Frame 5' 6" (857) (838) 2' 9³/₄" 2' 9" 6633	(1 772) (1 753) Opening 5' 9³/₄" Frame 5' 9" (895) (876) 2' 11¹/₄" 2' 10¹/₂" 6935	(1 797) (1 778) Opening 5' 10³/₄" Frame 5' 10" (908) (889) 2' 11³/₄" 2' 11" 7035	

Not to scale.



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Half Circle, Full Circle, Springline and Ellipticals for ILT Grilles



(924) (905)	(1 829) (1 810)	Opening 6' 0"	Frame 5' 11 1/4"	7236
(959) (940)	(1 899) (1 880)	Opening 6' 2 3/4"	Frame 6' 2"	7437
(972) (953)	(1 924) (1 905)	Opening 6' 3 3/4"	Frame 6' 3"	7538
(1 060) (1 041)	(2 102) (2 083)	Opening 6' 10 3/4"	Frame 6' 10"	8241
(1 124) (1 105)	(2 229) (2 210)	Opening 7' 3 3/4"	Frame 7' 3"	8744
(1 162) (1 143)	(2 305) (2 286)	Opening 7' 6 3/4"	Frame 7' 6"	9045
(1 276) (1 257)	(2 534) (2 515)	Opening 8' 3 3/4"	Frame 8' 3"	9950
(1 353) (1 334)	(2 686) (2 667)	Opening 8' 9 3/4"	Frame 8' 9"	10553

Full Circles

(781) (762)	Opening 2' 6 3/4"	Frame 2' 6"	30
(1 238) (1 219)	Opening 4' 0 3/4"	Frame 4' 0"	48

Springlines

(654) (635)	Opening 2' 1 3/4"	Frame 2' 1"	CM2553 Springline
(1 365) (1 346)	Opening 4' 5 3/4"	Frame 4' 5"	
(756) (737)	Opening 2' 5 3/4"	Frame 2' 5"	CM2965 Springline
(1 670) (1 651)	Opening 5' 5 3/4"	Frame 5' 5"	

Elliptical Units

(400) (381)	(1 524) (1 505)	Opening 5' 0"	Frame 4' 11 1/4"	6015 Minor Radius = 12" Major Radius = 65 1/4"
(476) (457)	(1 829) (1 810)	Opening 6' 0"	Frame 5' 11 1/4"	7218 Minor Radius = 13" Major Radius = 66 11/16"

Not to scale.



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Quarter Circle for ILT Grilles



(552) (533)	Opening 1' 9 3/4"	Frame 1' 9"	(552) (533)	(552) (533)	(654) (635)	Opening 2' 1 3/4"	Frame 2' 1"	(654) (635)	(756) (737)	Opening 2' 5 3/4"	Frame 2' 5"	(756) (737)
			1' 9 3/4"	1' 9 3/4"				2' 1 3/4"				2' 5 3/4"
			1' 9"	1' 9"				2' 1"				2' 5"
(857) (838)	Opening 2' 9 3/4"	Frame 2' 9"	(857) (838)	(857) (838)	(908) (889)	Opening 2' 11 3/4"	Frame 2' 11"	(908) (889)	(959) (940)	Opening 3' 1 3/4"	Frame 3' 1"	(959) (940)
			2' 9 3/4"	2' 9 3/4"				2' 11 3/4"				3' 1 3/4"
			2' 9"	2' 9"				2' 11"				3' 1"
(1 060) (1 041)	Opening 3' 5 3/4"	Frame 3' 5"	(1 060) (1 041)	(1 060) (1 041)	(1 162) (1 143)	Opening 3' 9 3/4"	Frame 3' 9"	(1 162) (1 143)				
			3' 5 3/4"	3' 5 3/4"				3' 9 3/4"				
			3' 5"	3' 5"				3' 9"				

Not to scale.



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Elliptical and Oval - Removable Grilles and GBG

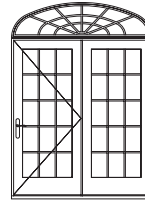


Elliptical

	Opening	5' 1 1/4" (1 556)	5' 5 1/4" (1 657)	5' 6 3/4" (1 695)	5' 9 1/4" (1 759)	6' 2 3/4" (1 899)
	Frame	5' 0 1/2" (1 537)	5' 4 1/2" (1 638)	5' 6" (1 676)	5' 8 1/2" (1 740)	6' 2" (1 880)
1' 4 3/4" (425)						
1' 4"						
						
		6116 R1 = 12" R2 = 55 5/8"	6516 R1 = 12" R2 = 65 1/4"	6616 R1 = 12" R2 = 69 1/8"	6916 R1 = 12" R2 = 75 7/8"	7416 R1 = 12" R2 = 92 1/8"
	Opening	5' 0" (1 524)	5' 0" (1 524)	6' 0" (1 829)	6' 0" (1 829)	
	Frame	4' 11 1/4" (1 505)	4' 11 1/4" (1 505)	5' 11 1/4" (1 810)	5' 11 1/4" (1 810)	
(400) (381)						
1' 3 3/4"						
1' 3"						
						
		DR6015		DR7218		
		Grilles-Between-the -Glass		Grilles-Between-the -Glass		
		Minor Radius = 12" Major Radius = 65 1/4"		Minor Radius = 13" Major Radius = 66 11/16"		

Ovals

	Opening	2' 0 3/4" (629) (610)	2' 0 3/4" (629) (610)	2' 0 3/4" (629) (610)	
	Frame	2' 0" (610)	2' 0" (610)	2' 0" (610)	
(933) (914)					
3' 0 3/4"					
3' 0"					
					
		2436 4-LITE TRADITIONAL	2436 5-LITE WITH RAYS	2436 9-LITE WITH SUNBURST	
	Opening	2' 6 3/4" (781) (762)	2' 6 3/4" (781) (762)	2' 6 3/4" (781) (762)	2' 6 3/4" (781) (762)
	Frame	2' 6" (762)	2' 6" (762)	2' 6" (762)	2' 6" (762)
(1 238) (1 219)					
4' 0 3/4"					
4' 0"					
					
		3048 4-LITE TRADITIONAL	3048 5-LITE WITH RAYS	3048 9-LITE WITH SUNBURST	3048 17-LITE WITH SUNBURST
	Opening	3' 0 3/4" (933) (914)	3' 0 3/4" (933) (914)	3' 0 3/4" (933) (914)	3' 0 3/4" (933) (914)
	Frame	3' 0" (914)	3' 0" (914)	3' 0" (914)	3' 0" (914)
(1 543) (1 524)					
5' 0 3/4"					
5' 0"					
					
		3660 4-LITE TRADITIONAL	3660 5-LITE WITH RAYS	3660 9-LITE WITH SUNBURST	3660 17-LITE WITH SUNBURST



Typical grille alignment for elliptical over hinged door.

Not to scale.

Removable grilles, available on elliptical and oval, are available to align with companion products for Architect Series®, Designer Series® and Pella® ProLine. Grilles-Between-the-Glass are available only on elliptical. Shapes are also available without grilles.



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Half Circle - Removable Grilles and GBG



(337) (318)	(654) (635)	Opening 2' 2 1/4"	Frame 2' 1"	(387) (368)	(756) (737)	Opening 2' 5 3/4"	Frame 2' 5"	(438) (419)	(857) (838)	Opening 2' 9 3/4"	Frame 2' 9"	(451) (432)	(883) (864)	Opening 2' 10 3/4"	Frame 2' 10"
1' 1 1/4"	1' 0 1/2"	2513		1' 3 1/4"	1' 2 1/2"	2915		1' 5 1/4"	1' 4 1/2"	3317		1' 5 3/4"	1' 5"	3417	
(464) (445)	(908) (889)	Opening 2' 11 3/4"	Frame 2' 11"	(489) (470)	(959) (940)	Opening 3' 1 3/4"	Frame 3' 1"	(495) (476)	(972) (952)	Opening 3' 2 1/4"	Frame 3' 1 1/2"	(540) (521)	(1 060) (1 041)	Opening 3' 5 3/4"	Frame 3' 5"
1' 6 1/4"	1' 5 1/2"	3518		1' 7 1/4"	1' 6 1/2"	3719		1' 7 1/2"	1' 6 3/4"	3819		1' 9 1/4"	1' 8 1/2"	4121	
(552) (533)	(1 086) (1 067)	Opening 3' 6 3/4"	Frame 3' 6"	(591) (572)	(1 162) (1 143)	Opening 3' 9 3/4"	Frame 3' 9"	(603) (584)	(1 187) (1 168)	Opening 3' 10 3/4"	Frame 3' 10"	(616) (597)	(1 213) (1 194)	Opening 3' 11 3/4"	Frame 3' 11"
1' 9 3/4"	1' 9"	4221		1' 11 1/4"	1' 10 1/2"	4523		1' 11 3/4"	1' 11"	4623		2' 0 1/4"	1' 11 1/2"	4724	
(668) (649)	(1 289) (1 270)	Opening 4' 2 3/4"	Frame 4' 2"	(667) (648)	(1 314) (1 296)	Opening 4' 3 3/4"	Frame 4' 3"	(692) (673)	(1 365) (1 346)	Opening 4' 5 3/4"	Frame 4' 5"	(756) (737)	(1 492) (1 473)	Opening 4' 10 3/4"	Frame 4' 10"
2' 1 3/4"	2' 1"	5025		2' 2 1/4"	2' 1 1/2"	5126		2' 3 1/4"	2' 2 1/2"	5327		2' 5 3/4"	2' 5"	5829	
(768) (749)	(1 517) (1 499)	Opening 4' 11 3/4"	Frame 4' 11"	(772) (752)	(1 524) (1 505)	Opening 5' 0"	Frame 4' 11 1/4"	(787) (768)	(1 556) (1 537)	Opening 5' 1 1/4"	Frame 5' 0 1/2"	(819) (800)	(1 619) (1 600)	Opening 5' 3 3/4"	Frame 5' 3"
2' 6 1/4"	2' 5 1/2"	5930		2' 6 3/8"	2' 5 5/8"	DR6030		2' 7"	2' 6 1/4"	6131		2' 8 1/4"	2' 7 1/2"	6332	

Not to scale.

Some units are not available with open center hub on Grilles-Between-the-Glass. Pattern will be:



Removable grilles are available to align with companion products for Architect Series®, Designer Series® and Pella® ProLine. Grilles-Between-the-Glass are available equally divided only. Shapes are also available without grilles.



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Half Circle - Removable Grilles and GBG



(838) (819)	Opening 5' 5 1/4"	Frame 5' 4 1/2"	2' 9"	2' 8 1/4"	 6533
(857) (838)	Opening 5' 6 3/4"	Frame 5' 6"	2' 9 3/4"	2' 9"	 6633
(885) (876)	Opening 5' 9 3/4"	Frame 5' 9"	2' 11 1/4"	2' 10 1/2"	 6935
(908) (889)	Opening 5' 10 3/4"	Frame 5' 10"	2' 11 3/4"	2' 11"	 7035
(924) (905)	Opening 6' 0"	Frame 5' 11 1/4"	3' 0 3/8"	2' 11 5/8"	 DR7236
(889) (880)	Opening 6' 2 3/4"	Frame 6' 2"	3' 1 3/4"	3' 1"	 7437
(971) (953)	Opening 6' 3 3/4"	Frame 6' 3"	3' 2 1/4"	3' 1 1/2"	 7538
(1060) (1041)	Opening 6' 10 3/4"	Frame 6' 10"	3' 5 3/4"	3' 5"	 8241
(1124) (1105)	Opening 7' 3 3/4"	Frame 7' 3"	3' 8 1/4"	3' 7 1/2"	 8744
(1162) (1143)	Opening 7' 6 3/4"	Frame 7' 6"	3' 9 3/4"	3' 9"	 9045
(1219) (1060)	Opening 8' 0"	Frame 7' 11 1/4"	4' 0 3/8"	3' 11 5/8"	 DR9648
(1276) (1257)	Opening 8' 3 3/4"	Frame 8' 3"	4' 2 1/4"	4' 1 1/2"	 9950
(1353) (1334)	Opening 8' 9 3/4"	Frame 8' 9"	4' 5 1/4"	4' 4 1/2"	 10553

Not to scale.

Some units are not available with open center hub on Grilles-Between-the-Glass. Pattern will be:



Removable grilles are available to align with companion products for Architect Series®, Designer Series® and Pella® ProLine. Grilles-Between-the-Glass are available equally divided only. Shapes are also available without grilles.

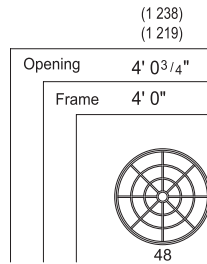
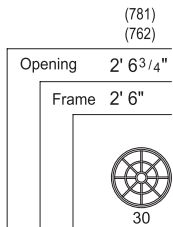
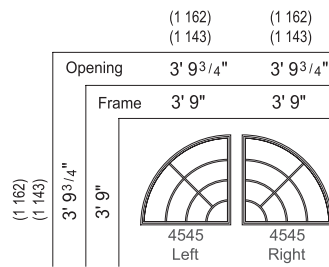
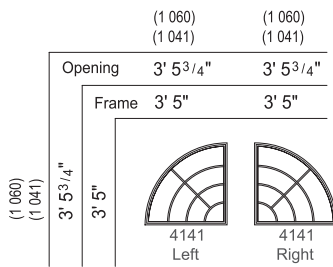
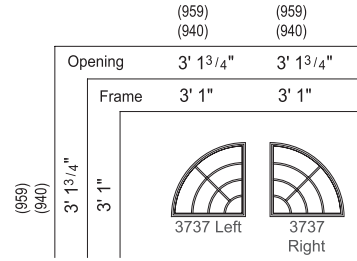
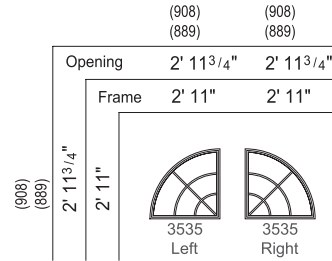
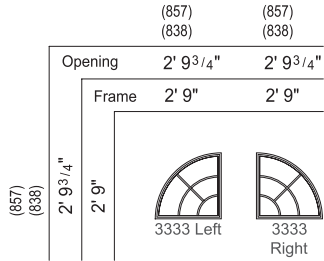
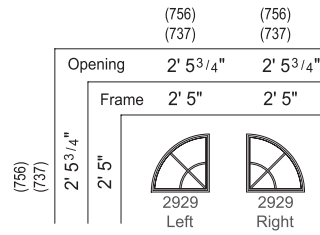
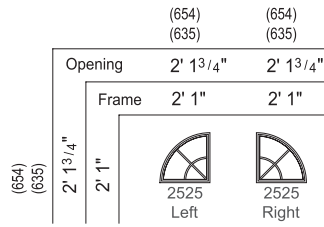
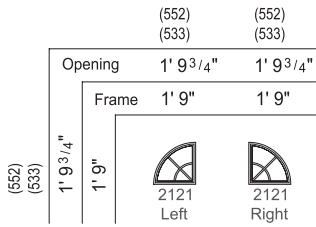


FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Quarter Circle and Full Circle - Removable Grilles and GBG



Not to scale.

Removable grilles and grilles-between-the-glass are available to align with companion products for Architect Series®, Designer Series® and Pella® ProLine. Shapes are also available without grilles.



FIXED WINDOW

Aluminum-Clad Wood Arch Head for ILT Grilles



Fixed Units

Short Side	Radius																24-1/16"																48-1/8"																84-1/16"																																															
																	(654) (635)																(1 289) (1 270)																(2 229) (2 210)																																															
5' 11"	Opening																2' 13/4"																Opening																4' 23/4"																Opening																7' 33/4"															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
5' 5"	Opening																2' 11/2"																Opening																1' 33/4"																Opening																1' 87/8"															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
5' 1"	Opening																2' 512																Opening																5008																Opening																8708															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
5' 0"	Opening																2' 512																Opening																5012																Opening																8712															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
1' 5"	Opening																2' 517																Opening																5017																Opening																8717															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
2' 1"	Opening																2' 525																Opening																5025																Opening																8725															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
2' 11"	Opening																2' 535																Opening																5035																Opening																8735															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
3' 5"	Opening																2' 541																Opening																5041																Opening																8741															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
3' 11"	Opening																2' 547																Opening																5047																Opening																8747															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
4' 5"	Opening																2' 553																Opening																5053																Opening																															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
4' 11"	Opening																2' 559																Opening																5059																Opening																															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
5' 5"	Opening																2' 565																Opening																5065																Opening																															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															
5' 11"	Opening																2' 571																Opening																5071																Opening																															
																	Frame 2' 1"																																Frame 4' 2"																																Frame 7' 3"															

See Design Data section for complete size availability.



FIXED WINDOW

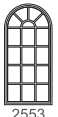
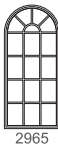
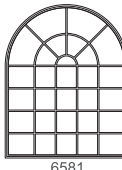
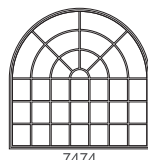
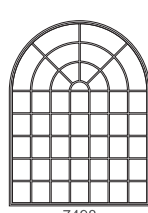
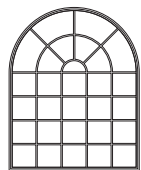
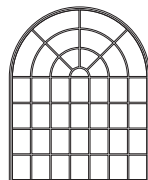
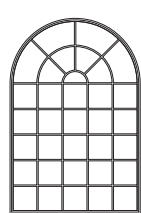
SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Springline - Removable Grilles and GBG



Springline

Radius 12-1/2"		Radius 36-1/4"		Radius 32-1/4"	
Short Side	Opening	Short Side	Opening	Short Side	Opening
40-1/2"	2' 1 3/4" (654)	18-3/4"	3' 2 1/4" (972)	32-1/4"	5' 5 1/4" (1 657)
	Frame 2' 1" (635)		Frame 3' 1 1/2" (953)		Frame 5' 4 1/2" (1 638)
4' 5 3/4" (1 365)		3' 2 1/4" (972)		5' 5 1/4" (1 657)	
4' 5" (1 346)		3' 1 1/2" (953)		5' 4 1/2" (1 638)	
					
	2553		3838		6565
Radius 14-1/2"		Radius 37-1/2"		Radius 48-1/2"	
Short Side	Opening	Short Side	Opening	Short Side	Opening
50-1/2"	2' 5 3/4" (756)	28"	3' 1 1/2" (1 207)	48-1/2"	6' 9 1/2" (2 070)
	Frame 2' 5" (737)		3' 10 3/4" (1 187)		6' 8 3/4" (2 051)
5' 5 3/4" (1 670)		3' 1 1/2" (1 207)		8' 1 1/2" (2 477)	
5' 5" (1 651)		3' 10 3/4" (1 187)		8' 0 3/4" (2 457)	
					
	2965		3847		6581
Radius 34-1/4"		Radius 37"		Radius 60-1/2"	
Short Side	Opening	Short Side	Opening	Short Side	Opening
34-1/4"	5' 9 1/4" (1 759)	37"	6' 2 3/4" (1 899)	60-1/2"	8' 2 1/4" (2 496)
	Frame 5' 8 1/2" (1 740)		Frame 6' 2" (1 880)		8' 1 1/2" (2 477)
5' 9 1/4" (1 759)		6' 2 3/4" (1 899)			
5' 8 1/2" (1 740)		6' 2" (1 880)			
					
	6969		7474		7498
7' 2 1/2" (2 197)		7' 9 1/4" (2 369)			
7' 1 3/4" (2 178)		7' 8 1/2" (2 350)			
					
	6986		7493		
8' 7" (2 516)					
8' 6 1/4" (2 510)					
					
	69103				

Not to scale.

Removable grilles and grilles-between-the-glass are available to align with companion products for Architect Series®, Designer Series® and Pella® ProLine. Shapes are also available without grilles.



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Arch Head - Removable Grilles and GBG



	Radius	36-1/4"	59-13/16"	72-3/16"
Short Side		(908) (889)	(1 492) (1 473)	(1 905)
8"	Opening	2' 11 ³ / ₄ "	4' 10 ³ / ₄ "	6' 3 ³ / ₄ "
1' 2"	Frame	2' 11"	4' 10"	6' 3"
17"		3508 3512 3517	5808 5812 5817	7508 7512 7517
25"		3525	5825	7525
35"		3535	5835	7535
41"		3541	5841	7541
47"		3547	5847	7547
53"		3553	5853	7553
59"		3559	5859	
65"		3565	5865	
71"		3571	5871	

Not to scale.

See Design Data section for complete size availability of arch heads over casements.

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FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Arch Head - Removable Grilles and GBG

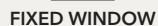


Radius		42-3/8"		72-1/16"	
Short Side	8"	(300) (311)	(959) (940)	(422) (403)	(1695) (1676)
	1' 2"	(432) (413)			
	1' 4"				
	1' 6"				
Long Side	17"	(559) (540)		(527) (508)	
	1' 2"				
	1' 4"				
	1' 6"				
End Side	25"	(762) (743)		(857) (838)	
	1' 2"				
	1' 4"				
	1' 6"				

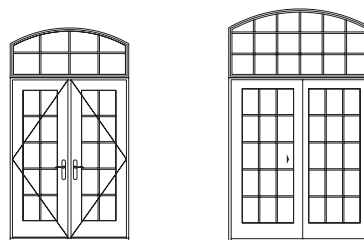
Not to scale.

See Design Data section for complete size availability of arch heads over casements.

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Arch Head - Removable Grilles and GBG

[illegible]

Typical grille alignment for arch head over doors.

Not to scale.

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FIXED WINDOW

Partial Arch Head for ILT Grilles



Vent and Fixed Units

[illegible]

Not to scale.



FIXED WINDOW

SIZE TABLES - CURVED SHAPES

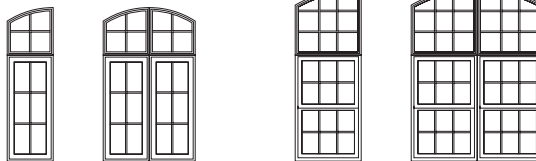
Aluminum-Clad Wood

Partial Arch Head - Removable Grilles and GBG



		Radius 24"				Radius 36"				Radius 42"			
Short Side		(451) (432)		(883) (864)		(543) (533)		(1 086) (1 067)		(594) (584)		(1 187) (1 168)	
		Opening		Opening		Opening		Opening		Opening		Opening	
17"	(629) (610)	2' 0"		2' 10 ³ / ₄ "		2' 0 ¹ / ₂ "		1' 11 ³ / ₄ "		2' 0 ¹ / ₂ "		1' 11 ³ / ₄ "	
		Frame		Frame		Frame		Frame		Frame		Frame	
25"	(832) (813)	2' 8 ³ / ₄ "		2' 8"		2' 8 ¹ / ₂ "		2' 7 ³ / ₄ "		2' 8 ¹ / ₂ "		2' 7 ³ / ₄ "	
													
		1724		1724-1724		2124		2124-2124		2324		2324-2324	
	(826) (806)	2' 0 ¹ / ₂ " <td colspan="2">1' 11³/₄"</td> <td colspan="2">2' 8¹/₂"</td> <td colspan="2">2' 7³/₄"</td> <td colspan="2">2' 0¹/₂"</td> <td colspan="2">1' 11³/₄"</td>		1' 11 ³ / ₄ "		2' 8 ¹ / ₂ "		2' 7 ³ / ₄ "		2' 0 ¹ / ₂ "		1' 11 ³ / ₄ "	
		2' 8 ³ / ₄ "		2' 7 ³ / ₄ "		2' 8 ¹ / ₂ "		2' 7 ³ / ₄ "		2' 8 ¹ / ₂ "		2' 7 ³ / ₄ "	
													
		1732		1732-1732		2132		2132-2132		2332		2332-2332	

Radius		48"		60"		66"						
Short Side		(645) (635)	(1 289) (1 270)	(746) (737)	(1 492) (1 473)	(857) (838)	(1 695) (1 676)					
		Opening	2' 1 ³ / ₄ "	4' 2 ³ / ₄ "	Opening	2' 5 ³ / ₄ "	4' 10 ³ / ₄ "	Opening	2' 9 ³ / ₄ "	5' 6 ³ / ₄ "		
		Frame	2' 1"	4' 2"	Frame	2' 5"	4' 10"	Frame	2' 9"	5' 6"		
17"	(629) (610)	2' 0 ³ / ₄ "			(641) (622)	2' 1 ¹ / ₄ "			(673) (654)	2' 2 ¹ / ₂ "		
		2' 0"	2524	2524-2524		2' 0 ¹ / ₂ "	2925	2925-2925		2' 1 ³ / ₄ "	3326	3326-3326
25"	(832) (813)	2' 8 ³ / ₄ "			(845) (826)	2' 9 ¹ / ₄ "			(876) (857)	2' 10 ¹ / ₂ "		
		2' 8"	2532	2532-2532		2' 8 ¹ / ₂ "	2933	2933-2933		2' 9 ³ / ₄ "	3334	3334-3334



Typical grille alignment for partial arch head over casements and double-hungs.

Not to scale.

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FIXED WINDOW

SIZE TABLES - CURVED SHAPES

Aluminum-Clad Wood

Partial Arch Head - Removable Grilles and GBG



		Radius 36"				Radius 48"				Radius 60"			
Short Side		(552) (533)		(1 086) (1 067)		(654) (635)		(1 289) (1 270)		(756) (737)		(1 492) (1 473)	
		Opening		Opening		Opening		Opening		Opening		Opening	
17"	(622) (603)	1' 9 ³ / ₄ "		3' 6 ³ / ₄ "		2' 1 ³ / ₄ "		4' 2 ³ / ₄ "		2' 5 ³ / ₄ "		4' 10 ³ / ₄ "	
		Frame		Frame		Frame		Frame		Frame		Frame	
25"	(826) (806)	2' 0 ¹ / ₂ "		1' 11 ³ / ₄ "		2' 0"		2' 0"		2' 1 ¹ / ₄ "		2' 0"	
		2124		2124-2124		2524		2524-2524		2925		2925-2925	
25"	(826) (806)	2' 8 ¹ / ₂ "		2' 7 ³ / ₄ "		2' 8 ³ / ₄ "		2' 8"		2' 9 ¹ / ₄ "		2' 8 ¹ / ₂ "	
		2132		2132-2132		2532		2532-2532		2933		2933-2933	

		Radius 66"				Radius 74"			
Short Side		(857) (838)		(1 695) (1 676)		(959) (940)		(1 899) (1 880)	
		Opening		Opening		Opening		Opening	
17"	(673) (654)	2' 9 ³ / ₄ "		5' 6 ³ / ₄ "		3' 1 ³ / ₄ "		6' 2 ³ / ₄ "	
		Frame		Frame		Frame		Frame	
25"	(876) (857)	2' 2 ¹ / ₂ "		2' 1 ³ / ₄ "		2' 3 ³ / ₄ "		2' 3"	
		3326		3326-3326		3727		3727-3727	
25"	(876) (857)	2' 10 ¹ / ₂ "		2' 9 ³ / ₄ "		2' 11 ³ / ₄ "		2' 11"	
		3334		3334-3334		3735		3735-3735	

		Radius 82"				Radius 90"			
Short Side		(1 060) (1 041)		(2 102) (2 083)		(1 162) (1 143)		(2 305) (2 286)	
		Opening		Opening		Opening		Opening	
17"	(730) (711)	3' 5 ³ / ₄ "		6' 10 ³ / ₄ "		3' 9 ³ / ₄ "		7' 6 ³ / ₄ "	
		Frame		Frame		Frame		Frame	
25"	(933) (914)	2' 4 ³ / ₄ "		2' 4"		2' 5 ³ / ₄ "		2' 5"	
		4128		4128-4128		4529		4529-4529	
25"	(933) (914)	3' 0 ³ / ₄ "		3' 0"		3' 1 ³ / ₄ "		3' 1"	
		4136		4136-4136		4537		4537-4537	

Not to scale.

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FIXED WINDOW

DESIGN DATA - CURVED SHAPES

Aluminum-Clad Wood



CURVED SHAPES

Unit	Frame Width	Frame Height	Short Side	Radius	Visible Glass Ft²		Frame Area Ft²
					Standard Profile	ILT Profile	
SPRINGLINES							
2553	2' 1"	4' 5"	40-1/2"	12-1/2"	7.2	6.6	8.7
2965	2' 5"	5' 5"	50-1/2"	14-1/2"	10.5	9.9	12.5
3838	3' 1-1/2"	3' 1-1/2"	18-3/4"	18-3/4"	7.4	7.0	8.9
3847	3' 1-1/2"	5' 5"	28"	18-3/4"	9.7	9.1	11.3
3857	3' 1-1/2"	4' 5"	37-1/2"	18-3/4"	12.0	11.3	13.8
6565	5' 4-1/2"	5' 4-1/2"	32-1/4"	32-1/4"	23.5	22.7	26.1
6581	5' 4-1/2"	6' 8-3/4"	48-1/2"	32-1/4"	30.5	29.5	33.4
6597	5' 4-1/2"	8' 0-3/4"	64-1/2"	32-1/4"	37.4	36.3	40.6
6969	5' 8-1/2"	5' 8-1/2"	34-1/4"	34-1/4"	26.7	25.8	29.4
6986	5' 8-1/2"	7' 1-3/4"	51-1/2"	34-1/4"	34.6	33.5	37.7
69103	5' 8-1/2"	8' 6-1/4"	68-1/2"	34-1/4"	42.3	41.1	45.8
7474	6' 2"	6' 2"	37"	37"	31.0	30.1	33.9
7493	6' 2"	7' 8-1/2"	55-1/2"	37"	40.1	39.0	43.5
7498	6' 2"	8' 1-1/2"	60-1/2"	37"	42.6	41.4	46.0
FULL CIRCLES							
30	2' 6"	—	—	30"	3.9	3.6	4.9
48	4' 0"	—	—	48"	10.9	10.4	12.6
OVALS							
2436	2' 0	3' 0"	—	—	—	—	—
3048	2' 6"	4' 0"	—	—	—	—	—
3660	3' 0"	5' 0"	—	—	—	—	—
QUARTER CIRCLES OVER SINGLE WINDOWS							
2121	1' 9"	1' 9"	—	21"	1.7	1.4	2.4
2525	2' 1"	2' 1"	—	25"	2.6	2.2	3.4
2929	2' 5"	2' 5"	—	28"	3.6	3.2	4.6
3333	2' 9"	2' 9"	—	33"	1.0	4.3	5.9
3535	2' 11"	2' 11"	—	35"	5.5	4.9	6.7
3737	3' 1"	3' 1"	—	37"	1.3	5.6	7.5
4141	3' 5"	3' 5"	—	41"	1.6	7.1	9.2
4545	3' 9"	3' 9"	—	45"	2.0	8.8	11.0
HALF CIRCLES OVER SINGLE WINDOWS							
2513	2' 1"	1' 0-1/2"	—	25"	0.9	0.9	1.7
2915	2' 5"	1' 2-1/2"	—	28"	1.4	1.3	2.3
3317	2' 9"	1' 4-1/2"	—	33"	1.9	2.0	3.1
3518	2' 10"	1' 5-1/2"	—	35"	2.2	2.1	3.3
3719	3' 1"	1' 6-1/2"	—	37"	2.5	2.4	3.7
4121	3' 5"	1' 8-1/2"	—	41"	3.2	3.1	4.6
4523	3' 9"	1' 10-1/2"	—	45"	4.0	3.9	5.5
4724	3' 11"	1' 11-1/2"	—	47"	4.5	4.3	6.0
5327	4' 5"	2' 2-1/2"	—	53"	5.9	5.7	7.7
5930	4' 11"	2' 5-1/2"	—	59"	7.5	7.3	9.5
HALF CIRCLES OVER 2-WIDE WINDOWS							
3417	2' 10"	1' 5"	—	34"	2.1	2.0	3.2
4221	3' 6"	1' 9"	—	42"	3.4	3.3	4.8
4623	3' 10"	1' 11"	—	46"	4.3	4.1	5.8
5025	4' 2"	2' 1"	—	50"	5.2	5.0	6.8
5829	4' 10"	2' 5"	—	58"	7.2	1.0	9.3
6633	5' 6"	2' 9"	—	66"	9.7	9.5	11.9
7035	5' 10"	2' 11"	—	70"	11.0	10.8	13.4
7437	6' 2"	3' 1"	—	74"	12.4	12.2	14.9
8241	6' 10"	3' 5"	—	82"	15.5	15.3	18.3
9045	7' 6"	3' 9"	—	90"	19.0	18.7	22.1

Continued on next page

(—) Not Applicable

See Design Pressure Performance pages for performance class and grade.



FIXED WINDOW

DESIGN DATA

Aluminum-Clad Wood



CURVED SHAPES

Unit	Frame Width	Frame Height	Short Side	Radius	Visible Glass Ft²		Frame Area Ft²
					Standard Profile	ILT Profile	
HALF CIRCLES OVER 3-WIDE WINDOWS							
5126	4' 3"	2' 1-1/2"	—	51"	5.4	5.2	7.1
6332	5' 3"	2' 7-1/2"	—	63"	8.7	8.5	10.8
6935	5' 9"	2' 10-1/2"	—	69"	10.7	10.4	13.0
7538	6' 3"	3' 1-1/2"	—	75"	12.8	12.6	15.3
8744	7' 3"	3' 7-1/2"	—	87"	17.7	17.4	20.6
9950	8' 3"	4' 1-1/2"	—	99"	23.3	22.0	26.7
10553	8' 9"	4' 4-1/2"	—	105"	26.5	26.1	30.1
HALF CIRCLES OVER DOORS							
6030	4' 11-1/4"	2' 5-5/8"	—	29-5/8"	7.6	7.4	9.6
7236	5' 11-1/4"	2' 11-5/8"	—	35-5/8"	11.4	11.2	13.8
9648	7' 11-1/4"	3' 11-5/8"	—	47-5/8"	21.5	15.3	18.3
ELLIPTICALS OVER DOORS							
6015	4' 11-1/4"	1' 3"	—	—	3.6	3.6	5.1
7218	5' 11-1/4"	1' 6"	—	—	5.4	5.4	7.1
ARCH HEAD OVER SINGLE WINDOWS							
2508	2' 1"	11-1/2"	8"	24-1/16"	1.0	0.9	1.8
2512	2' 1"	1' 3-1/2"	12"	24-1/16"	1.6	1.5	2.5
2517	2' 1"	1' 8-1/2"	17"	24-1/16"	2.3	2.2	3.4
2525	2' 1"	2' 4-1/2"	25"	24-1/16"	3.5	3.4	4.8
2535	2' 1"	3' 2-1/2"	35"	24-1/16"	5.0	4.8	6.5
2541	2' 1"	3' 8-1/2"	41"	24-1/16"	5.9	5.7	7.5
2547	2' 1"	4' 2-1/2"	47"	24-1/16"	6.7	6.5	8.6
2553	2' 1"	4' 8-1/2"	53"	24-1/16"	7.6	7.4	9.6
2559	2' 1"	5' 2-1/2"	59"	24-1/16"	8.5	8.2	10.7
2565	2' 1"	5' 8-1/2"	65"	24-1/16"	9.4	9.1	11.7
2571	2' 1"	6' 2-1/2"	71"	24-1/16"	10.6	10.0	12.7
2908	2' 5"	11-3/4"	8"	29-15/16"	1.2	1.1	2.1
2912	2' 5"	1' 3-3/4"	12"	29-15/16"	1.9	1.8	2.9
2917	2' 5"	1' 8-3/4"	17"	29-15/16"	2.8	2.7	4.0
2925	2' 5"	2' 4-3/4"	25"	29-15/16"	4.2	4.0	5.5
2935	2' 5"	3' 2-3/4"	35"	29-15/16"	5.9	5.7	7.6
2941	2' 5"	3' 8-3/4"	41"	29-15/16"	7.0	6.8	8.8
2947	2' 5"	4' 2-3/4"	47"	29-15/16"	8.0	7.8	10.0
2953	2" 5"	4' 8-3/4"	53"	29-15/16"	9.1	8.8	11.2
2959	2' 5"	5' 2-3/4"	59"	29-15/16"	10.1	9.9	12.4
2965	2' 5"	5' 8-3/4"	65"	29-15/16"	11.2	10.9	13.6
2971	2' 5"	6' 2-3/4"	71"	29-15/16"	12.6	11.9	14.8
3308	2' 9"	1' 0"	8"	36-1/16"	1.4	1.3	2.4
3312	2' 9"	1' 4"	12"	36-1/16"	2.2	2.1	3.3
3317	2' 9"	1' 9"	17"	36-1/16"	3.2	3.1	4.5
3325	2' 9"	2' 5"	25"	36-1/16"	4.8	4.7	6.3
3508	2' 11"	1' 0-1/2"	8"	36-1/4"	1.6	1.5	2.7
3512	2' 11"	1' 4-1/2"	12"	36-1/4"	2.5	2.3	3.7
3517	2' 11"	1' 9-1/2"	17"	36-1/4"	3.6	3.4	4.9
3525	2' 11"	2' 5-1/2"	25"	36-1/4"	5.3	5.1	6.8
3535	2' 11"	3' 3-1/2"	35"	36-1/4"	7.5	7.2	9.3
3541	2' 11"	3' 9-1/2"	41"	36-1/4"	8.8	8.5	10.7
3547	2' 11"	4' 3-1/2"	47"	36-1/4"	10.1	9.8	12.2
3553	2' 11"	4' 9-1/2"	53"	36-1/4"	11.4	11.1	13.6
3559	2' 11"	5' 3-1/2"	59"	36-1/4"	12.7	12.4	15.1
3565	2' 11"	5' 9-1/2"	65"	36-1/4"	14.0	13.4	16.5
3571	2' 11"	6' 3-1/2"	71"	36-1/4"	15.7	14.9	18.0

Continued on next page

(—) Not Applicable

See Design Pressure Performance pages for performance class and grade.



FIXED WINDOW

DESIGN DATA

Aluminum-Clad Wood



CURVED SHAPES

Unit	Frame Width	Frame Height	Short Side	Radius	Visible Glass Ft²		Frame Area Ft²
					Standard Profile	ILT Profile	
ARCH HEAD OVER SINGLE WINDOWS (continued)							
3708	3' 1"	1' 0-1/4"	8"	42-3/8"	1.7	1.5	2.8
3712	3' 1"	1' 4-1/4"	12"	42-3/8"	2.6	2.5	3.8
3717	3' 1"	1' 9-1/4"	17"	42-3/8"	3.7	3.6	5.1
3725	3' 1"	2' 5-1/4"	25"	42-3/8"	5.6	5.4	7.1
4108	3' 5"	1' 0-5/8"	8"	47-3/4"	1.9	1.8	3.1
4112	3' 5"	1' 4-5/8"	12"	47-3/4"	3.0	2.8	4.3
4117	3' 5"	1' 9-5/8"	17"	47-3/4"	4.2	4.1	5.7
4125	3' 5"	2' 5-5/8"	25"	47-3/4"	6.3	6.1	7.9
4508	3' 9"	1' 1-5/8"	8"	47-13/16"	2.3	2.2	3.6
4512	3' 9"	1' 5-5/8"	12"	47-13/16"	3.5	3.3	4.9
4517	3' 9"	1' 10-5/8"	17"	47-13/16"	4.9	4.7	6.4
4525	3' 9"	2' 6-5/8"	25"	47-13/16"	7.2	7.0	8.9
4708	3' 11"	1' 2-1/8"	8"	48-1/8"	2.6	2.4	4.0
4712	3' 11"	1' 6-1/8"	12"	48-1/8"	3.8	3.6	5.3
4717	3' 11"	1' 11-1/8"	17"	48-1/8"	5.3	5.1	6.9
4725	3' 11"	2' 7-1/8"	25"	48-1/8"	7.7	7.4	9.5
4735	3' 11"	3' 5-1/8"	35"	48-1/8"	10.7	10.4	12.8
4741	3' 11"	3' 11-1/8"	41"	48-1/8"	12.5	12.2	14.7
4747	3' 11"	4' 5-1/8"	47"	48-1/8"	14.3	14.0	16.7
4753	3' 11"	4' 11-1/8"	53"	48-1/8"	16.1	15.7	18.7
4759	3' 11"	5' 5-1/8"	59"	48-1/8"	17.9	17.5	20.6
4765	3' 11"	5' 11-1/8"	65"	48-1/8"	19.7	19.3	22.6
ARCH HEAD OVER 2-WIDE WINDOWS							
4208	3' 6"	1' 0-7/8"	8"	47-11/16"	2	1.9	3.3
4212	3' 6"	1' 4-7/8"	12"	47-11/16"	3.1	2.9	4.5
4217	3' 6"	1' 9-7/8"	17"	47-11/16"	4.4	4.2	5.9
4225	3' 6"	2' 5-7/8"	25"	47-11/16"	6.6	6.3	8.2
4235	3' 6"	3' 3-7/8"	35"	47-11/16"	9.2	9.0	11.2
4241	3' 6"	3' 9-7/8"	41"	47-11/16"	10.8	10.5	12.9
4247	3' 6"	4' 3-7/8"	47"	47-11/16"	12.4	12.1	14.7
4253	3' 6"	4' 9-7/8"	53"	47-11/16"	14	13.7	16.4
4259	3' 6"	5' 3-7/8"	59"	47-11/16"	15.6	15.2	18.2
4265	3' 6"	5' 9-7/8"	65"	47-11/16"	17.2	16.8	19.9
4271	3' 6"	6' 3-7/8"	71"	47-11/16"	19.2	18.4	21.7
5008	4' 2"	1' 3"	8"	48-1/8"	2.9	2.8	4.4
5012	4' 2"	1' 7"	12"	48-1/8"	4.2	4.0	5.8
5017	4' 2"	2' 0"	17"	48-1/8"	5.8	5.6	7.6
5025	4' 2"	2' 8"	25"	48-1/8"	8.4	8.2	10.3
5035	4' 2"	3' 6"	35"	48-1/8"	11.6	11.3	13.8
5041	4' 2"	4' 0"	41"	48-1/8"	13.5	13.2	15.9
5047	4' 2"	4' 6"	47"	48-1/8"	15.4	15.1	18.0
5053	4' 2"	5' 0"	53"	48-1/8"	17.4	17.0	20.1
5059	4' 2"	5' 6"	59"	48-1/8"	19.3	18.9	22.1
5065	4' 2"	6' 0"	65"	48-1/8"	21.2	20.9	24.2
5071	4' 2"	6' 6"	71"	48-1/8"	23.6	22.8	26.3
5808	4' 10"	1' 3-1/2"	8"	59-13/16"	3.6	3.4	5.3
5812	4' 10"	1' 7-1/2"	12"	59-13/16"	5.1	4.9	6.9
5817	4' 10"	2' 0-1/2"	17"	59-13/16"	7	6.7	8.9
5825	4' 10"	2' 8-1/2"	25"	59-13/16"	10	9.7	12.1
5835	4' 10"	3' 6-1/2"	35"	59-13/16"	13.7	13.4	16.1
5841	4' 10"	4' 0-1/2"	41"	59-13/16"	16	15.7	18.5

Continued on next page

(-) Not Applicable

See Design Pressure Performance pages for performance class and grade.



FIXED WINDOW

DESIGN DATA

Aluminum-Clad Wood



CURVED SHAPES

Unit	Frame Width	Frame Height	Short Side	Radius	Visible Glass Ft²		Frame Area Ft²
					Standard Profile	ILT Profile	
ARCH HEAD OVER 2-WIDE WINDOWS (continued)							
5847	4' 10"	4' 6-1/2"	47"	59-13/16"	18.2	17.9	21.0
5853	4' 10"	5' 0-1/2"	53"	59-13/16"	20.5	20.1	23.4
5859	4' 10"	5' 6-1/2"	59"	59-13/16"	22.8	22.4	25.8
5865	4' 10"	6' 0-1/2"	65"	59-13/16"	25	24.6	28.2
5871	4' 10"	6' 6-1/2"	71"	59-13/16"	27.8	26.9	30.6
6608	5' 6"	1' 4"	8"	72-1/16"	4.2	4.0	6.1
6612	5' 6"	1' 8"	12"	72-1/16"	5.9	5.7	7.9
6617	5' 6"	2' 1"	17"	72-1/16"	8	7.9	10.1
6625	5' 6"	2' 9"	25"	72-1/16"	11.5	11.3	13.8
7008	5' 10"	1' 5-1/8"	8"	71-11/16"	4.9	4.6	6.9
7012	5' 10"	1' 9-1/8"	12"	71-11/16"	6.7	6.4	8.8
7017	5' 10"	2' 2-1/8"	17"	71-11/16"	9	8.7	11.2
7025	5' 10"	2' 10-1/8"	25"	71-11/16"	12.7	12.4	15.1
7035	5' 10"	3' 8-1/8"	35"	71-11/16"	17.3	16.1	20.0
7041	5' 10"	4' 2-1/8"	41"	71-11/16"	20	19.7	22.9
7047	5' 10"	4' 8-1/8"	47"	71-11/16"	22.8	22.4	25.8
7053	5' 10"	5' 2-1/8"	53"	71-11/16"	25.5	25.1	28.7
7059	5' 10"	5' 8-1/8"	59"	71-11/16"	28.3	27.9	31.7
7065	5' 10"	6' 2-1/8"	65"	71-11/16"	31	30.6	34.6
7408	6' 2"	1' 6-1/4"	8"	71-7/8"	5.4	5.3	7.6
7412	6' 2"	1' 10-1/4"	12"	71-7/8"	7.4	7.2	9.6
7417	6' 2"	2' 3-1/4"	17"	71-7/8"	9.8	9.6	12.2
7425	6' 2"	2' 11-1/4"	25"	71-7/8"	13.7	13.5	16.2
ARCH HEAD OVER 3-WIDE WINDOWS							
7508	6' 3"	1' 6-1/2"	8"	72-3/16"	5.7	5.4	7.9
7512	6' 3"	1' 10-1/2"	12"	72-3/16"	7.7	7.4	10.0
7517	6' 3"	2' 3-1/2"	17"	72-3/16"	10.2	9.9	12.6
7525	6' 3"	2' 11-1/2"	25"	72-3/16"	14.1	13.8	16.7
7535	6' 3"	3' 9-1/2"	35"	72-3/16"	19.1	18.7	21.9
7541	6' 3"	4' 3-1/2"	41"	72-3/16"	22	21.6	25.1
7547	6' 3"	4' 9-1/2"	47"	72-3/16"	25	24.6	28.2
7553	6' 3"	5' 3-1/2"	53"	72-3/16"	28	27.5	31.3
8708	7' 3"	1' 8-1/8"	8"	84-1/16"	9.6	7.0	9.8
8712	7' 3"	2' 0-1/8"	12"	84-1/16"	12.5	9.3	12.2
8717	7' 3"	2' 5-1/8"	17"	84-1/16"	17.1	12.2	15.2
8725	7' 3"	3' 1-1/8"	25"	84-1/16"	22.9	16.8	20.1
8735	7' 3"	3' 11-1/8"	35"	84-1/16"	26.4	22.5	26.1
8741	7' 3"	4' 5-1/8"	41"	84-1/16"	29.8	25.9	29.7
8747	7' 3"	4' 11-1/8"	47"	84-1/16"	10.5	29.4	33.4
10508	8' 9"	1' 11-5/8"	8"	96"	13.4	10.2	13.6
10512	8' 9"	2' 3-5/8"	12"	96"	16.9	13.0	16.5
10517	8' 9"	2' 8-5/8"	17"	96"	22.5	16.5	20.1
10525	8' 9"	3' 4-5/8"	25"	96"	27.2	22.1	25.9
ARCH HEAD OVER DOORS							
3008	2' 6"	11-1/4"	8"	36-1/4"	1.2	1.1	2.1
3012	2' 6"	1' 3-1/4"	12"	36-1/4"	1.9	1.8	3.0
3017	2' 6"	1' 8-1/4"	17"	36-1/4"	2.8	2.7	4.0
3025	2' 6"	2' 4-1/4"	25"	36-1/4"	4.3	4.1	5.7
3035	2' 6"	3' 2-1/4"	35"	36-1/4"	6.1	5.9	7.8
3041	2' 6"	3' 8-1/4"	41"	36-1/4"	7.2	7.0	9.0
3047	2' 6"	4' 2-1/4"	47"	36-1/4"	8.3	8.0	10.3
3053	2' 6"	4' 8-1/4"	53"	36-1/4"	9.4	9.1	11.5

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(-) Not Applicable

See Design Pressure Performance pages for performance class and grade.



FIXED WINDOW

DESIGN DATA

Aluminum-Clad Wood



CURVED SHAPES

Unit	Frame Width	Frame Height	Short Side	Radius	Visible Glass Ft²		Frame Area Ft²
					Standard Profile	ILT Profile	
ARCH HEAD OVER DOORS (continued)							
3059	2' 6"	5' 2-1/4"	59"	36-1/4"	10.5	10.2	12.8
3065	2' 6"	5' 8-1/4"	65"	36-1/4"	11.6	11.3	14.0
3071	2' 6"	6' 2-1/4"	71"	36-1/4"	13	12.3	15.3
3608	3' 0"	1' 0"	8"	42-1/2"	1.6	1.5	2.7
3612	3' 0"	1' 4"	12"	42-1/2"	2.5	2.3	3.7
3617	3' 0"	1' 9"	17"	42-1/2"	3.6	3.4	4.9
3625	3' 0"	2' 5"	25"	42-1/2"	5.4	5.2	6.9
3635	3' 0"	3' 3"	35"	42-1/2"	7.6	7.4	9.4
3641	3' 0"	3' 9"	41"	42-1/2"	9	8.7	10.9
3647	3' 0"	4' 3"	47"	42-1/2"	10.3	10.0	12.4
3653	3' 0"	4' 9"	53"	42-1/2"	11.7	11.4	13.9
3659	3' 0"	5' 3"	59"	42-1/2"	13	12.7	15.4
3665	3' 0"	5' 9"	65"	42-1/2"	14.3	14.0	16.9
3671	3' 0"	6' 3"	71"	42-1/2"	16.1	15.3	18.4
ARCH HEAD OVER DOORS							
6008	4' 11-1/4"	1' 3-7/8"	8"	59-11/16"	3.7	3.5	5.5
6012	4' 11-1/4"	1' 7-7/8"	12"	59-11/16"	5.3	5.1	7.1
6017	4' 11-1/4"	2' 0-7/8"	17"	59-11/16"	7.2	7.0	9.2
6025	4' 11-1/4"	2' 8-7/8"	25"	59-11/16"	10.3	10.0	12.5
6035	4' 11-1/4"	3' 6-7/8"	35"	59-11/16"	14.1	13.8	16.6
6041	4' 11-1/4"	4' 0-7/8"	41"	59-11/16"	16.4	16.1	19.0
6047	4' 11-1/4"	4' 6-7/8"	47"	59-11/16"	18.8	18.4	21.5
6053	4' 11-1/4"	5' 0-7/8"	53"	59-11/16"	21.1	20.7	24.0
6059	4' 11-1/4"	5' 6-7/8"	59"	59-11/16"	23.4	23.0	26.5
6065	4' 11-1/4"	6' 0-7/8"	65"	59-11/16"	25.7	25.3	28.9
6071	4' 11-1/4"	6' 6-7/8"	71"	59-11/16"	28.5	27.6	31.4
7208	5' 11-1/4"	1' 5-3/8"	8"	72-3/8"	5.1	4.8	7.1
7212	5' 11-1/4"	1' 9-3/8"	12"	72-3/8"	6.9	6.6	9.1
7217	5' 11-1/4"	2' 2-3/8"	17"	72-3/8"	9.3	9.0	11.6
7225	5' 11-1/4"	2' 10-3/8"	25"	72-3/8"	13	12.7	15.5
7235	5' 11-1/4"	3' 8-3/8"	35"	72-3/8"	17.7	17.3	20.5
7241	5' 11-1/4"	4' 2-3/8"	41"	72-3/8"	20.5	20.1	23.4
7247	5' 11-1/4"	4' 8-3/8"	47"	72-3/8"	23.3	22.9	26.4
7253	5' 11-1/4"	5' 2-3/8"	53"	72-3/8"	26.1	25.7	29.4
7259	5' 11-1/4"	5' 8-3/8"	59"	72-3/8"	28.9	28.5	32.3
PARTIAL ARCH HEADS OVER WINDOWS							
2535	2' 1"	2' 11"	28"	48-1/8"	—	4.1	5.7
2541	2' 1"	3' 5"	34"	48-1/8"	—	5.0	6.7
2547	2' 1"	3' 11"	40"	48-1/8"	—	5.8	7.8
2553	2' 1"	4' 5"	46"	48-1/8"	—	6.7	8.8
2559	2' 1"	4' 11"	52"	48-1/8"	—	7.5	9.8
2565	2' 1"	5' 5"	58"	48-1/8"	—	8.4	10.9
2571	2' 1"	5' 11"	64"	48-1/8"	—	9.6	11.9
2941	2' 5"	3' 5"	33-1/2"	59-13/16"	—	5.9	7.8
2947	2' 5"	3' 11"	39-1/2"	59-13/16"	—	7.0	9.0
2953	2' 5"	4' 5"	45-1/2"	59-13/16"	—	7.9	10.2
2959	2' 5"	4' 11"	51-1/2"	59-13/16"	—	9.0	11.4
2965	2' 5"	5' 5"	57-1/2"	59-13/16"	—	10.0	12.6
2971	2' 5"	5' 11"	63-1/2"	59-13/16"	—	11.4	13.8
3547	2' 11"	3' 11"	38"	72-9/16"	—	8.5	10.7
3553	2' 11"	4' 5"	44"	72-9/16"	—	9.8	12.1
3559	2' 11"	4' 11"	50"	72-9/16"	—	11.0	13.6

(—) Not Applicable

See Design Pressure Performance pages for performance class and grade.



FIXED WINDOW

DESIGN DATA

Aluminum-Clad Wood

HurricaneShield® Impact-Resistant Glazing



	9/16" SGP	1" SGP IG	1-1/4" SGP IG	1" PVB IG
MAXIMUM PERFORMANCE GRADE ¹				
up to 21 sq ft of frame	75	60	60	–
up to 36 sq ft of frame	75	60	60	–
up to 48 sq ft of frame	75	–	60	–
CERTIFICATION				
Miami-Dade County ²	14-0428.13	14-0428.13	14-0428.13	14-0428.13
Hallmark	411-H-987	411-H-973	411-H-1003	411-H-973
FPAS	FL11484	FL11484	FL11484	FL11484
TDI	WIN-478	WIN-478	WIN-478	–

(–) Not Applicable

(1) Maximum design pressure limited by unit testing or ASTM E 1300-04(H) and ASTM E 1300-04(D)

All interior glazed units with Impact glazing are certified for wind zone 4, large missile rating D.

(2) Reference Miami-Dade County approval documents for specific information.



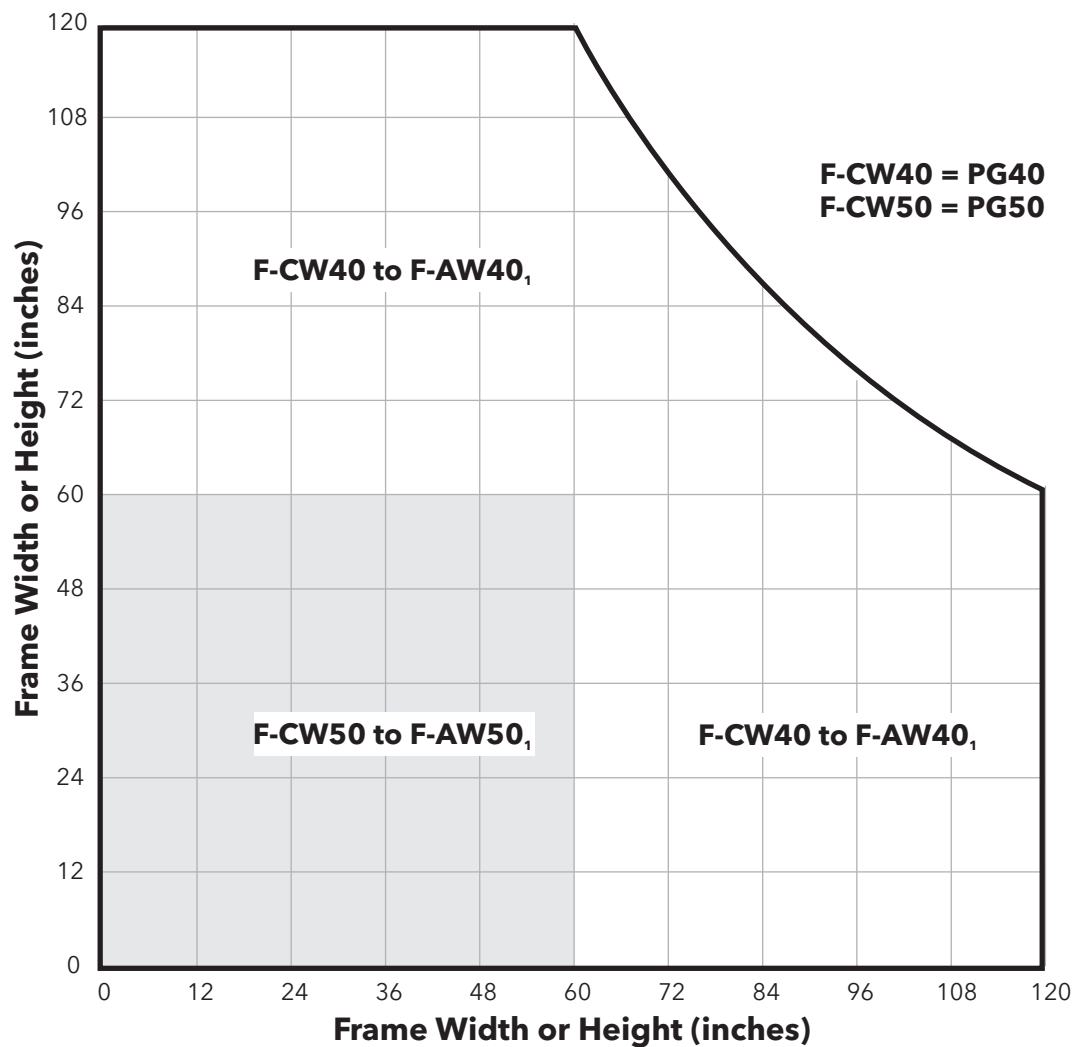
FIXED WINDOW

DESIGN PRESSURE PERFORMANCE

Aluminum-Clad Wood: Interior Glazed
Fin Installation Method



- The use of fixed frame direct set windows is limited by product performance rating, design pressure load chart, installation method, mullion strength and glass thickness or type. See mullion limitation and glass charts in the Installation and Performance section at PellaADM.com.
- Fixed Frames are available up to a maximum frame area of 50.3 ft² (4.67 m²). Angled and Curved frames are measured as a rectangle.
- IMPORTANT:** Glass must meet requirements of the glass charts and comply with the load chart. This chart below shows the maximum performance class and grade of the frame only when glazed with the appropriate glass thickness.



(1) AAMA/WDMA F-AW rating can be obtained with the EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step finish system.



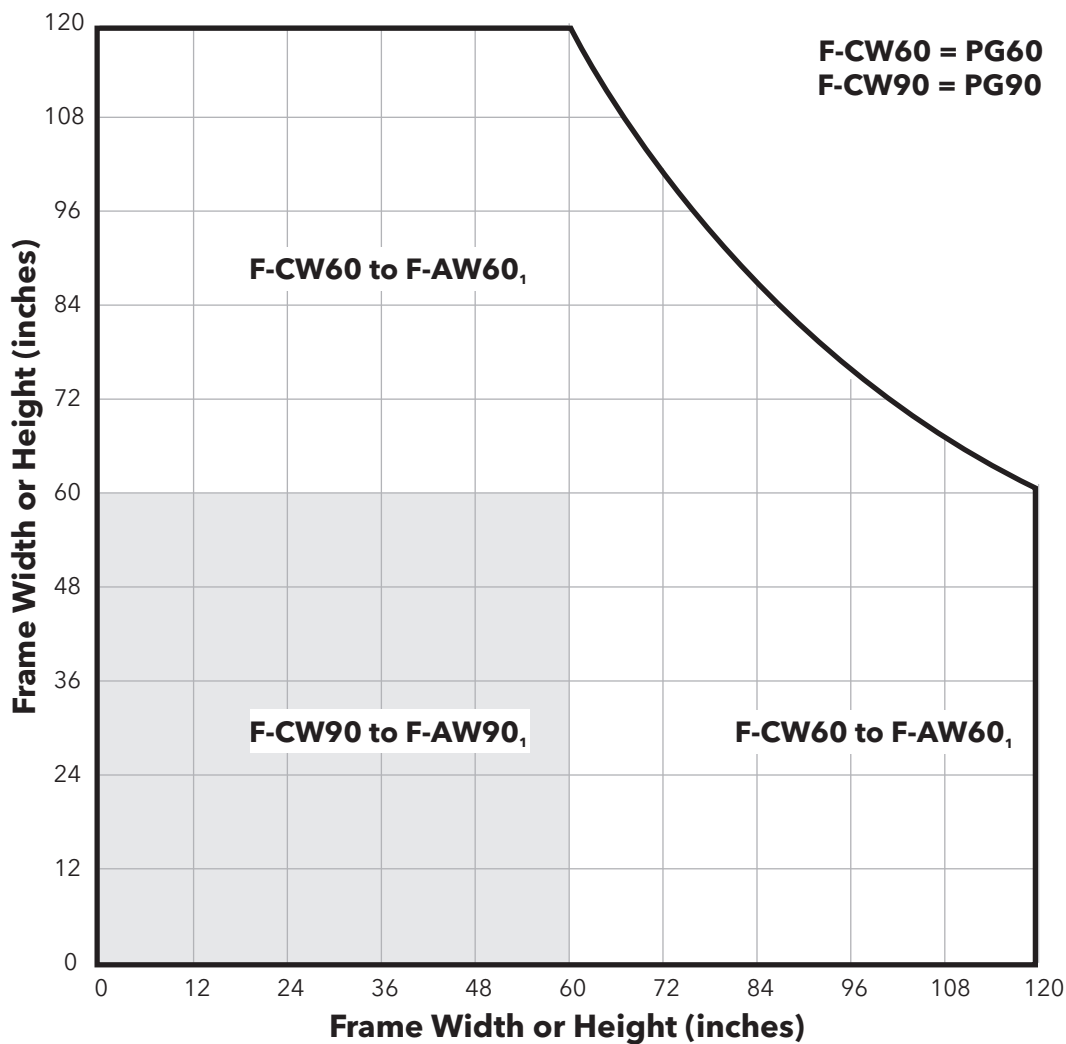
FIXED WINDOW

ADVANCED DESIGN PRESSURE PERFORMANCE

Aluminum-Clad Wood: Interior Glazed
Clip or Screw-through-frame installation



- The use of fixed frame direct set windows is limited by product performance rating, design pressure load chart, installation method, mullion strength and glass thickness or type. See mullion limitation and glass charts in the Installation and Performance section at PellaADM.com.
- Fixed Frames are available up to a maximum frame area of 50.3 ft² (4.67 m²). Angled and Curved frames measured as a rectangle.
- IMPORTANT:** Glass must meet requirements of the glass charts and comply with the load chart. This chart below shows the maximum performance class and grade of the frame only when glazed with the appropriate glass thickness.



(1) AAMA/WDMA F-AW rating can be obtained with the EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step finish.
AW rating is not applicable to impact product.



FIXED WINDOW

DETAILED PRODUCT DESCRIPTIONS

Aluminum-Clad Wood Interior Glazed



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 [Pine] [Mahogany] [Alder] [Douglas Fir].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples, and concealed corner locks.
- Curved glass stops are segmented.
- Curved head assembly shall be mitered at end where joined to non-curved frame members, screwed and sealed.
- Curved head assembly consists of solid wood core blocks bonded to stabilized wood fiber with water-resistant glue. Two sheets are laminated with veneers at interior.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory-applied jamb extensions available.
- Optional factory-applied EnduraClad® exterior trim.

GLAZING SYSTEM 1

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Urethane-glazed [13/16"] [1"] dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E with argon] [SunDefense™ Low-E with argon] [Advanced Comfort Low-E with argon] [NaturalSun Low-E with argon]] [[bronze] [gray] [green] [obscure] Advanced Low-E with argon].
- or -
- Silicone-glazed 1" triple-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E with argon] [Advanced Low-E with krypton] [SunDefense™ Low-E with argon] [SunDefense™ Low-E with krypton] [NaturalSun Low-E with argon] [NaturalSun Low-E with krypton]].
- or -
- Impact-Resistant
 - Silicone-glazed 1" dual-seal impact-resistant insulating glass 1 [1"] [SGP] [PVB]] [1-1/4" SGP]. [[tempered] [annealed]] exterior light is [[Advanced Low-E with argon] [clear] [bronze] [gray] [green]]. Laminated clear interior light.
- or -
 - Urethane-glazed 9/16" SGP laminated glass [hard coat Low-E] [bronze] [gray] [green].
- or -
 - Urethane-glazed 7/16" PVB laminated glass [clear] [bronze] [gray] [green].

EXTERIOR

- Aluminum clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
- Color is [White] [Tan] [Brown] [Putty] [feature 2] [custom 2].
- or -
- Aluminum clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
- Color is [White] [Tan] [Brown] [Putty] [feature 2] [custom 2].

INTERIOR

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen White] [Bright White] [stain 2]].

OPTIONAL PRODUCTS

Grilles 5

- Integral Light Technology® grilles
 - Interior grilles are [5/8" [putty] [ogee] profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile (traditional pattern only)] that are solid [Pine] [Mahogany] [Alder] [Douglas Fir]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain 2]]. Curved grilles may have visible finger joints.
 - Exterior grilles are [5/8" putty profile] [7/8" [putty] [ogee] profile] [1-1/4" [putty] [ogee] profile] [2" ogee profile (traditional pattern only)] that are extruded aluminum to match window cladding.
 - Insulating glass contains non-glare spacer grid between two panes of glass. Non-glare spacer is adhered to the glass.
 - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.
- Removable Grilles
 - [3/4" Regular] [1-1/4" [Regular] [Colonial]] [2" [Regular] [Colonial]] profile with Traditional pattern that has removable solid pine wood bars steel-pinned at joints and fitted to glass stops with steel clips and tacks.
 - Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain 2]].
 - Exterior [unfinished, ready for site finishing] [factory-primed].
- or -
- Grilles-Between-the-Glass 3
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass (exterior air-space on triple-pane insulating glass).
 - Interior color is [white] [Tan 4] [Brown 4] [Putty 4] [Ivory] [Brickstone] [Harvest] [Cordovan].
 - Exterior color is [White] [Tan] [Brown] [Putty] [feature 2].
 - Grille pattern is [Traditional] [Custom - Equally Divided] [Prairie] [Cross] [Top Row].

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

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

(3) Available in clear or Low-E insulating glass only. White exterior grille color is the only option available for clear insulating glass.

(4) Tan, Brown and Putty GBG colors are available in single-tone only (Brown/Brown, Tan/Tan or Putty/Putty).

(5) Certain grille types and patterns may have restrictions depending on unit size and shape, contact your local Pella sales representative for details.



FIXED WINDOW

DETAILED PRODUCT DESCRIPTIONS

Aluminum-Clad Wood Exterior Glazed



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 [pine] [mahogany] [alder] [douglas fir].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples, and concealed corner locks.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory-applied jamb extensions available.
- Optional factory-applied EnduraClad® exterior trim.

GLAZING SYSTEM ¹

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Butyl-glazed clear single-light with removable aluminum stops.
– or –
- Urethane-glazed dual-seal insulating glass [[annealed] [tempered]] [[clear] [Advanced Low-E with argon] [SunDefense™ Low-E with argon] [AdvancedComfort Low-E with argon] [NaturalSun Low-E with argon]] [[bronze] [gray] [green] Advanced Low-E with argon] with removable aluminum stops.

EXTERIOR

- Aluminum clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
- Color is [White] [Tan] [Brown] [Putty] [feature₂] [custom₂].
– or –
- Aluminum clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
- Color is [White] [Tan] [Brown] [Putty] [feature₂] [custom₂].

INTERIOR

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen White] [Bright White] [stain₂]].

OPTIONAL PRODUCTS

Grilles

- Removable Grilles
 - [3/4" Regular] [1-1/4" [Regular] [Colonial]] [2" [Regular] [Colonial]] profile with Traditional pattern that has removable solid wood bars steel-pinned at joints and fitted to glass stops with steel clips and tacks.
 - Interior [unfinished, ready for site finishing] [factory primed] [factory prefinished [White] [Linen White] [Bright White] [stain₂]].
 - Exterior [unfinished, ready for site finishing] [factory primed] [finish color matched to exterior cladding₃].
– or –
- Grilles-Between-the-Glass ¹
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass (exterior air-space on triple-pane insulating glass).
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
 - Interior color is [White] [Tan₂] [Brown₂] [Putty₂] [Ivory] [Brickstone] [Harvest] [Cordovan].
 - Exterior color is [White] [Tan] [Brown] [Putty] [feature₃].

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

(2) Tan, Brown and Putty GBG colors are available in single-tone only (Brown/Brown, Tan/Tan or Putty/Putty).

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

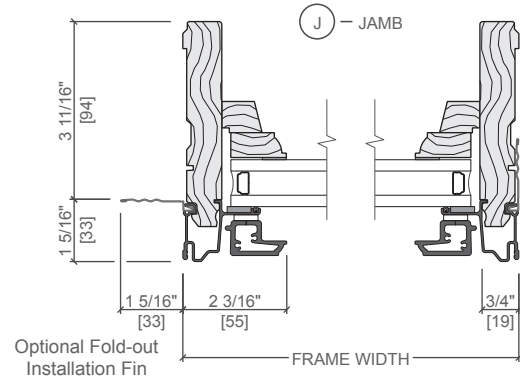
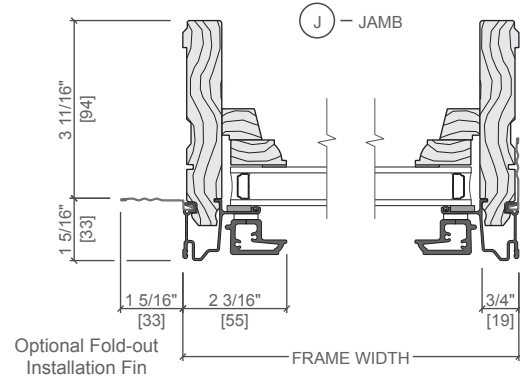
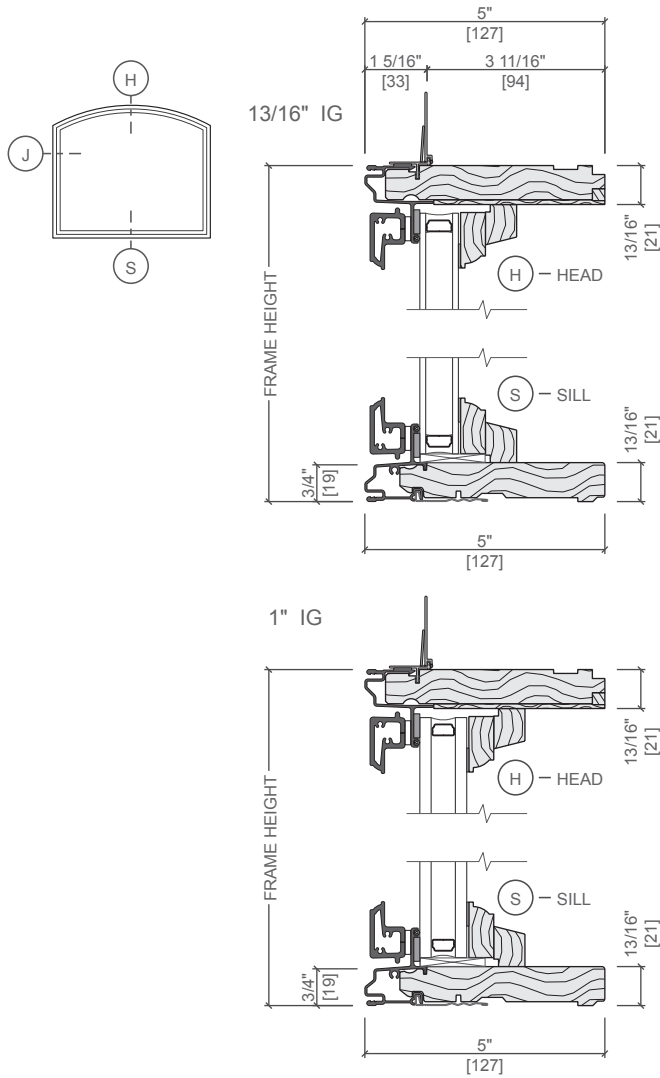


FIXED WINDOW

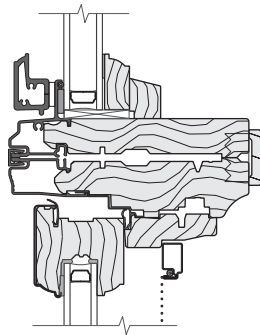
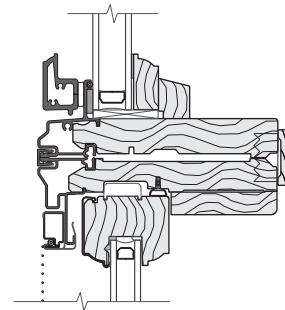
UNIT SECTIONS – CURVED SHAPES

Aluminum-Clad Wood

Integral Light Technology® Grilles



TYPICAL JOINING MULLIONS

HORIZONTAL JOINING MULLION
CIRCLEHEAD / CASEMENTHORIZONTAL JOINING MULLION
CIRCLEHEAD / DOUBLE-HUNG

Scale 3" = 1' 0"

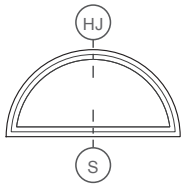
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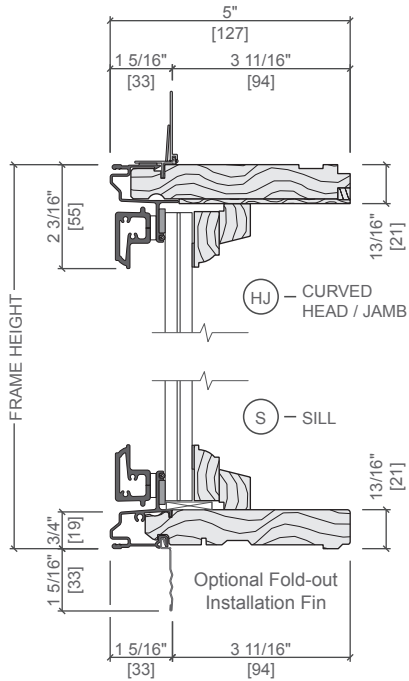
FIXED WINDOW

UNIT SECTIONS - CURVED SHAPES

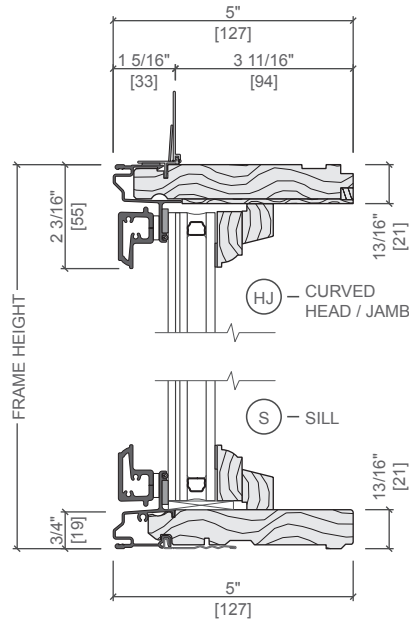
Aluminum-Clad Wood with HurricaneShield® Impact-Resistant Glazing
Single-Laminated and Laminated Insulating Glass



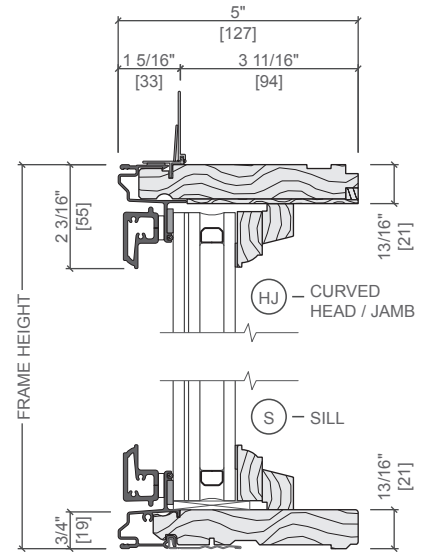
9/16" SINGLE LAMINATED



1" Impact IG



1-1/4" Impact IG



Scale 3" = 1' 0"

All dimensions are approximate.

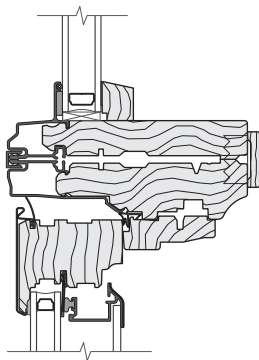
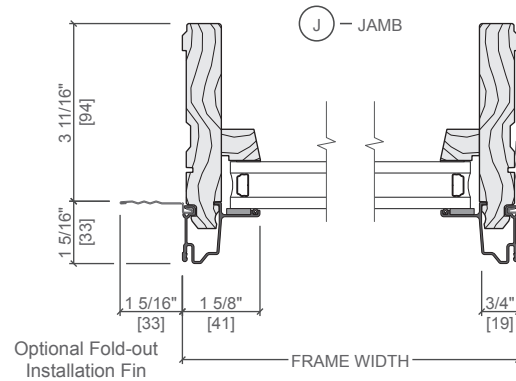
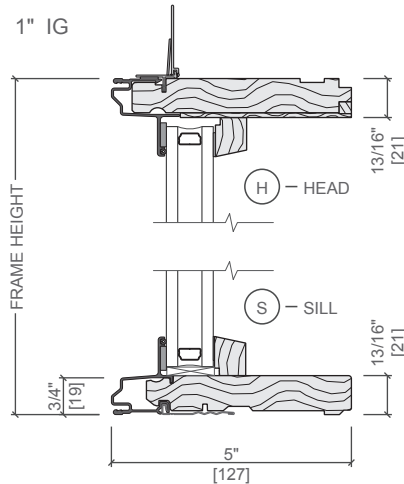
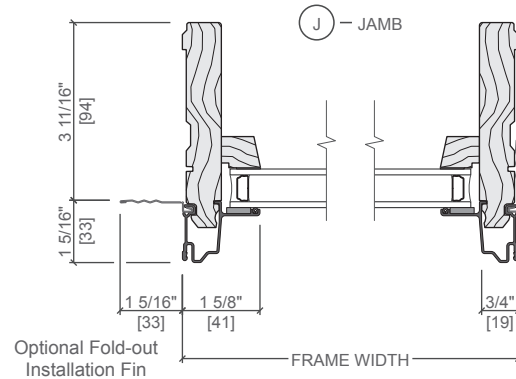
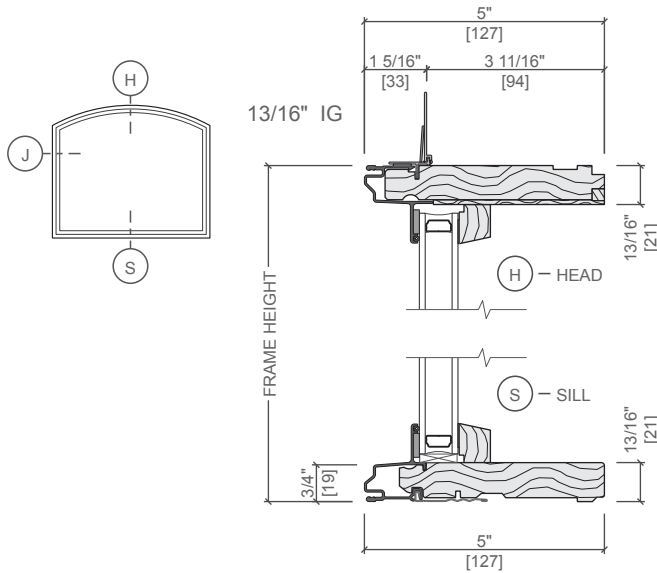
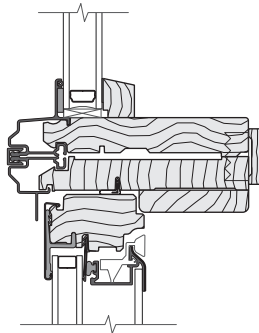
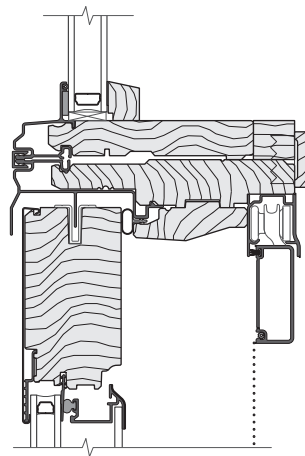
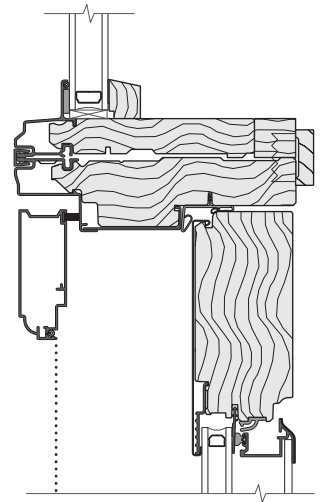


FIXED WINDOW

UNIT SECTIONS – CURVED SHAPES

Aluminum-Clad Wood

Curved Removable Grilles and Grilles-Between-the-Glass

HORIZONTAL JOINING MULLION
CIRCLEHEAD / CASEMENTHORIZONTAL JOINING MULLION
CIRCLEHEAD / DOUBLE-HUNGHORIZONTAL JOINING MULLION
CIRCLEHEAD / SLIDING DOORHORIZONTAL JOINING MULLION
CIRCLEHEAD / IN-SWING DOOR

Scale 3" = 1' 0"

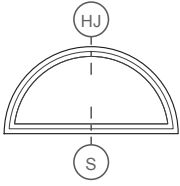
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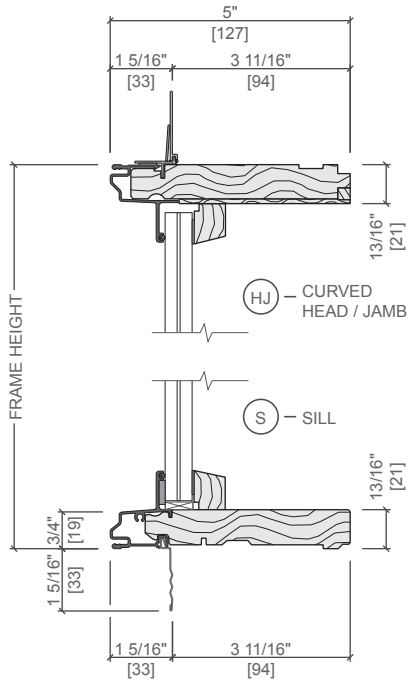
FIXED WINDOW

UNIT SECTIONS - CURVED SHAPES

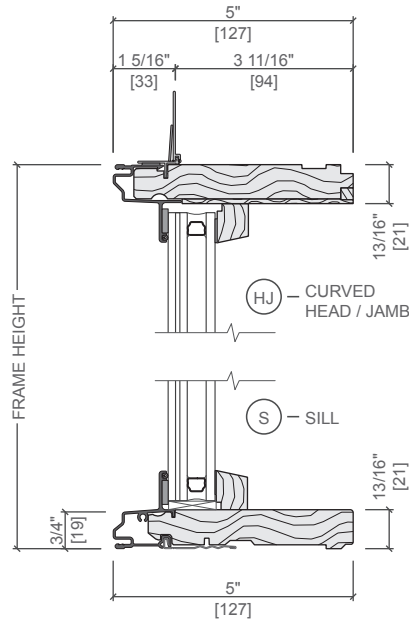
Aluminum-Clad Wood with HurricaneShield® Impact-Resistant Glazing
Single-Laminated and Laminated Insulating Glass



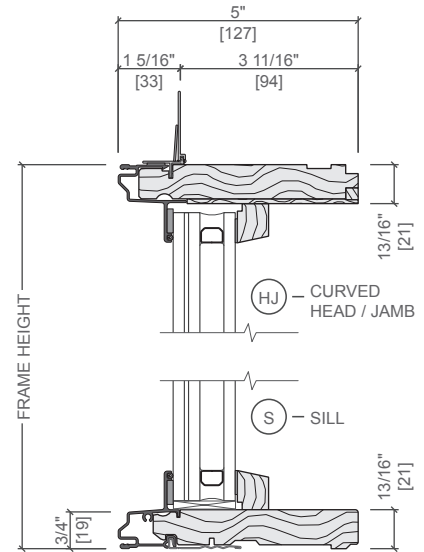
9/16" SINGLE
LAMINATED



1" Impact IG



1-1/4" Impact IG



Scale 3" = 1' 0"

All dimensions are approximate.

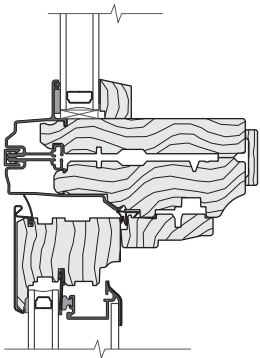
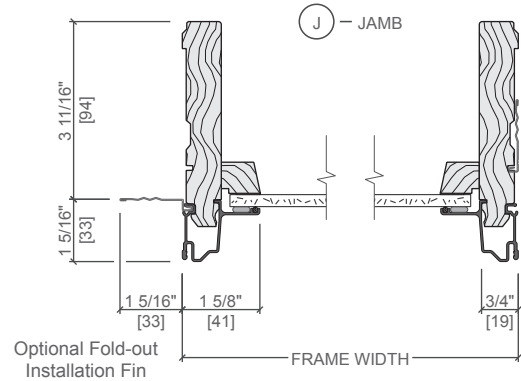
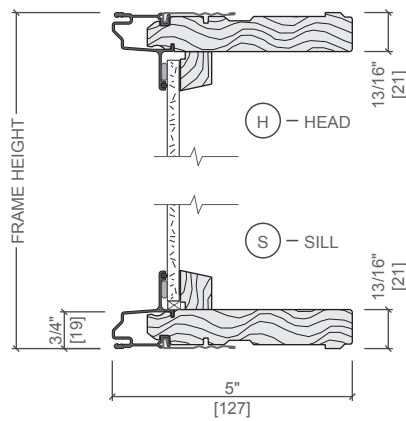
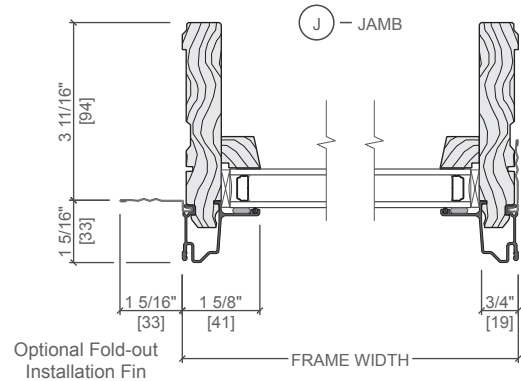
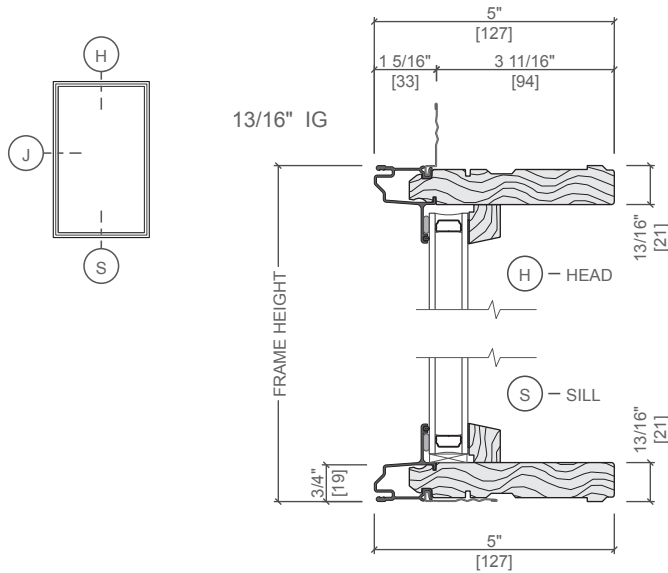
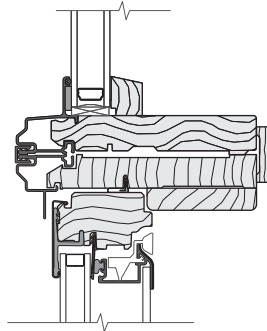
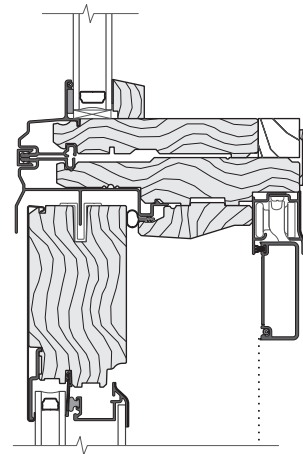
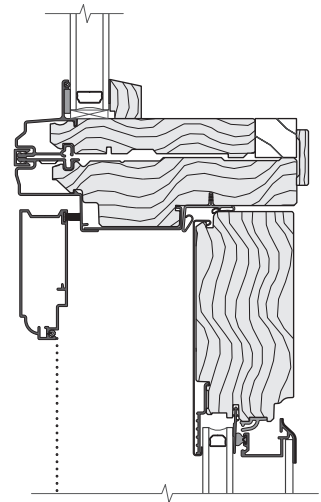


FIXED WINDOW

UNIT SECTIONS – RECTANGULAR AND ANGLED SHAPES

Aluminum-Clad Wood

Interior Glazed Removable and Grilles-Between-the-Glass

HORIZONTAL JOINING MULLION
CIRCLEHEAD / CASEMENTHORIZONTAL JOINING MULLION
CIRCLEHEAD / DOUBLE-HUNGHORIZONTAL JOINING MULLION
CIRCLEHEAD / SLIDING DOORHORIZONTAL JOINING MULLION
CIRCLEHEAD / HINGED DOOR

Scale 3" = 1' 0"

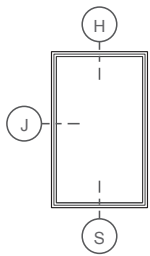
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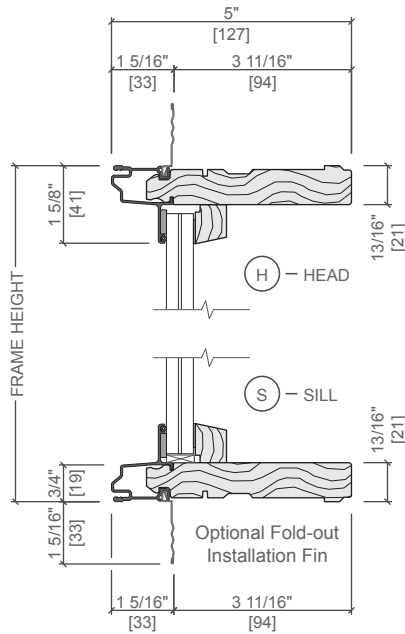
FIXED WINDOW

UNIT SECTIONS – RECTANGULAR AND ANGLED SHAPES

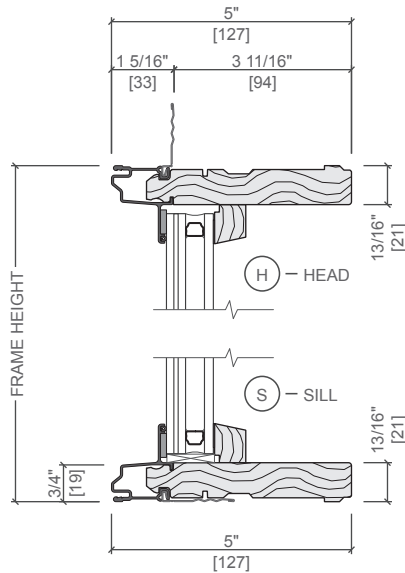
Aluminum-Clad Wood with HurricaneShield® Impact-Resistant Glazing
Interior Glazed



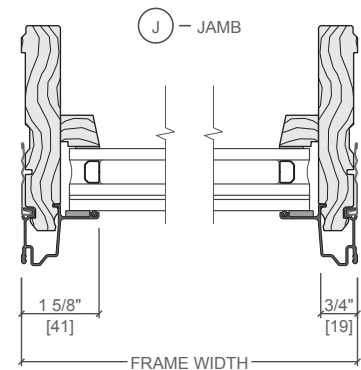
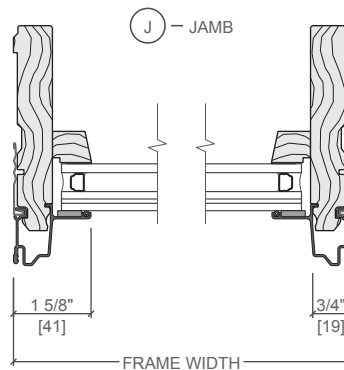
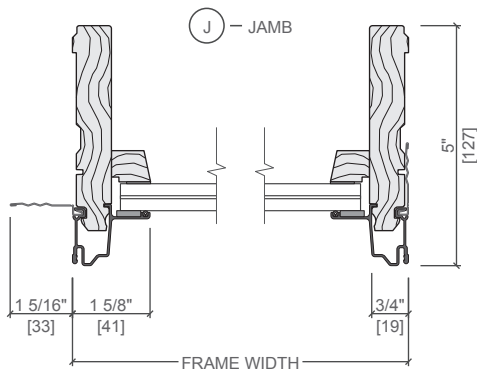
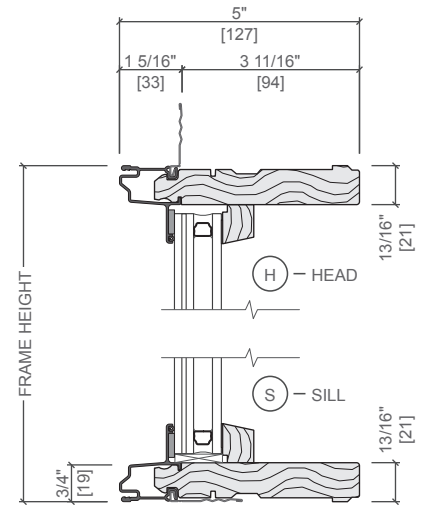
9/16" SINGLE
LAMINATED



1" Impact IG



1-1/4" Impact IG



Scale 3" = 1' 0"

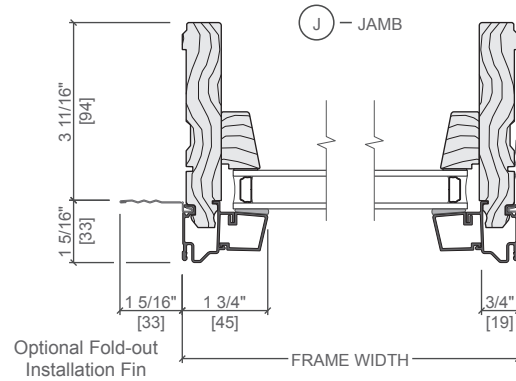
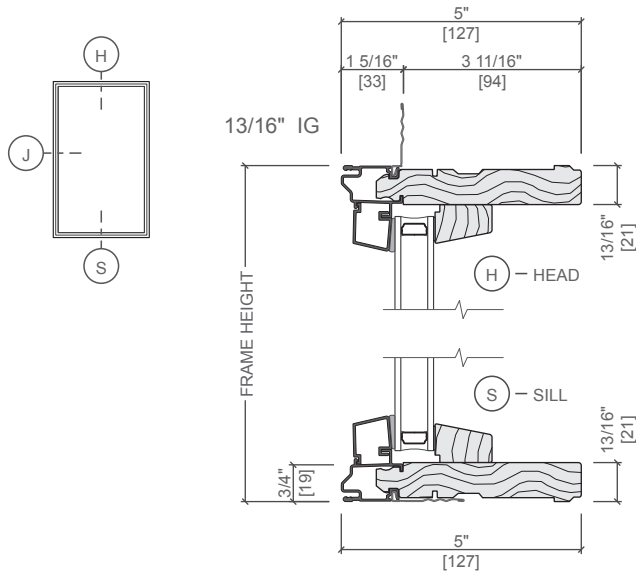
All dimensions are approximate.



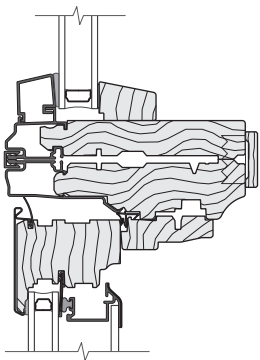
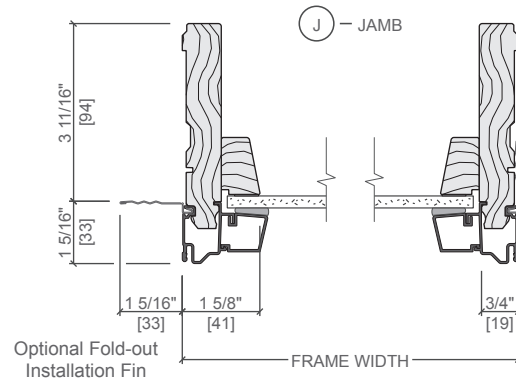
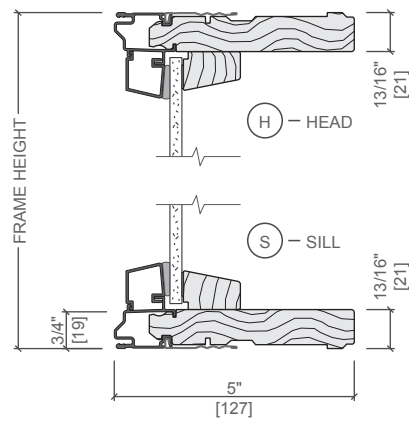
FIXED WINDOW

UNIT SECTIONS – RECTANGULAR SHAPES

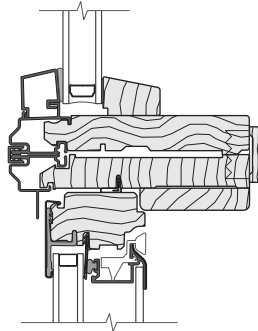
Aluminum-Clad Wood
Exterior Glazed



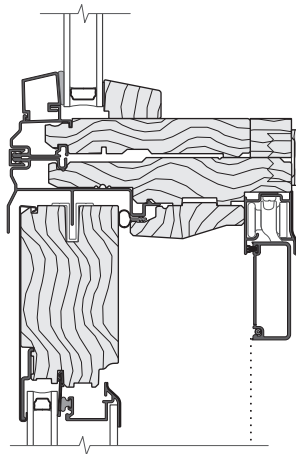
CLAD PANEL



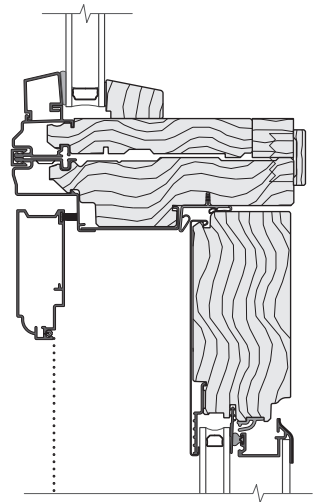
HORIZONTAL JOINING MULLION
CIRCLEHEAD / CASEMENT



HORIZONTAL JOINING MULLION
CIRCLEHEAD / DOUBLE-HUNG



HORIZONTAL JOINING MULLION
CIRCLEHEAD / SLIDING DOOR



HORIZONTAL JOINING MULLION
CIRCLEHEAD / HINGED DOOR

Scale 3" = 1' 0"

All dimensions are approximate.