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# GLAZING PERFORMANCE - TOTAL UNIT

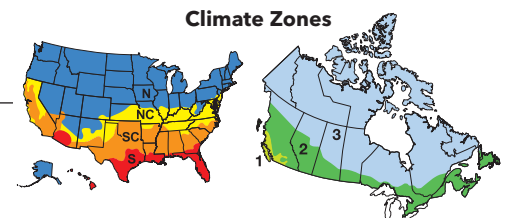
Aluminum-Clad Exterior



Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown									
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sup>2</sup>					
										Zone				ER	Zone				
										N	NC	SC	S				1	2	3
<b>VENT</b>																			
11/16"	Clear IG	PEL-N-179-01101-00001	2.5	2.5	air	0.46	0.60	0.63	44										
	with grilles-between-the-glass	PEL-N-179-01102-00001				0.46	0.54	0.56	44										
	with integral grilles	PEL-N-179-01103-00001				0.46	0.54	0.56	44										
11/16"	Advanced Low-E IG	PEL-N-179-01137-00001	2.5	2.5	argon	0.29	0.28	0.53	60										
	with grilles-between-the-glass	PEL-N-179-01138-00001				0.29	0.25	0.47	60										
	with integral grilles	PEL-N-179-01139-00001				0.30	0.25	0.47	60										
11/16"	SunDefense™ Low-E IG	PEL-N-179-01185-00001	2.5	2.5	argon	0.29	0.21	0.49	60										
	with grilles-between-the-glass	PEL-N-179-01186-00001				0.29	0.19	0.44	60										
	with integral grilles	PEL-N-179-01187-00001				0.29	0.19	0.44	60										
11/16"	AdvancedComfort Low-E IG	PEL-N-179-01161-00001	2.5	2.5	argon	0.25	0.28	0.52	49										
	with grilles-between-the-glass	PEL-N-179-01162-00001				0.25	0.25	0.46	49										
	with integral grilles	PEL-N-179-01163-00001				0.26	0.25	0.46	48										
11/16"	NaturalSun Low-E IG	PEL-N-179-01113-00001	2.5	2.5	argon	0.30	0.53	0.60	59										
	with grilles-between-the-glass	PEL-N-179-01114-00001				0.30	0.47	0.54	59										
	with integral grilles	PEL-N-179-01115-00001				0.30	0.47	0.54	59										
<b>TINTED GLAZING</b>																			
11/16"	Bronze Advanced Low-E IG	PEL-N-179-01209-00001	5	3	argon	0.30	0.25	0.34	58										
	with grilles-between-the-glass	PEL-N-179-01210-00001				0.31	0.23	0.30	58										
	with integral grilles	PEL-N-179-01211-00001				0.31	0.23	0.30	58										
11/16"	Gray Advanced Low-E IG	PEL-N-179-01217-00001	5	3	argon	0.30	0.23	0.29	58										
	with grilles-between-the-glass	PEL-N-179-01218-00001				0.31	0.21	0.26	58										
	with integral grilles	PEL-N-179-01219-00001				0.31	0.21	0.26	58										
11/16"	Green Advanced Low-E IG	PEL-N-179-01225-00001	5	3	argon	0.30	0.28	0.46	58										
	with grilles-between-the-glass	PEL-N-179-01226-00001				0.31	0.26	0.41	58										
	with integral grilles	PEL-N-179-01227-00001				0.31	0.26	0.41	58										
<b>HIGH ALTITUDE GLAZING</b>																			
11/16"	Advanced Low-E IG	PEL-N-179-01149-00001	2.5	2.5	air	0.32	0.28	0.53	56										
	with grilles-between-the-glass	PEL-N-179-01150-00001				0.32	0.26	0.47	56										
	with integral grilles	PEL-N-179-01151-00001				0.33	0.26	0.47	56										
11/16"	SunDefense Low-E IG	PEL-N-179-01197-00001	2.5	2.5	air	0.32	0.21	0.49	56										
	with grilles-between-the-glass	PEL-N-179-01198-00001				0.32	0.19	0.44	56										
	with integral grilles	PEL-N-179-01199-00001				0.33	0.19	0.44	56										
11/16"	AdvancedComfort Low-E IG	PEL-N-179-01173-00001	2.5	2.5	air	0.28	0.28	0.52	44										
	with grilles-between-the-glass	PEL-N-179-01174-00001				0.28	0.25	0.46	44										
	with integral grilles	PEL-N-179-01175-00001				0.28	0.25	0.46	44										
11/16"	NaturalSun Low-E IG	PEL-N-179-01125-00001	2.5	2.5	air	0.33	0.53	0.60	56										
	with grilles-between-the-glass	PEL-N-179-01126-00001				0.33	0.47	0.54	56										
	with integral grilles	PEL-N-179-01127-00001				0.34	0.47	0.54	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 for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (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](http://www.energystar.gov) for Energy Star guidelines.  
 Non Rectangular Unit thermal values will vary slightly.





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GLAZING PERFORMANCE - TOTAL UNIT

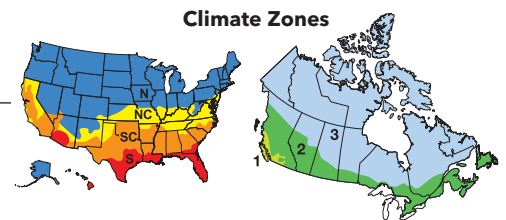
Wood Exterior



Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown										
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sup>2</sup>						
										Zone	ER	Zone								
<b>VENT</b>											<b>N</b>	<b>NC</b>	<b>SC</b>	<b>S</b>						
11/16"	Clear IG	PEL-N-177-01101-00001	2.5	2.5	air	0.45	0.60	0.63	44											
	with grilles-between-the-glass	PEL-N-177-01102-00001				0.45	0.54	0.56	44											
	with integral grilles	PEL-N-177-01103-00001				0.46	0.54	0.56	44											
11/16"	Advanced Low-E IG	PEL-N-177-01137-00001	2.5	2.5	argon	0.28	0.28	0.54	59											
	with grilles-between-the-glass	PEL-N-177-01138-00001				0.28	0.26	0.48	59											
	with integral grilles	PEL-N-177-01139-00001				0.29	0.26	0.48	59											
11/16"	SunDefense™ Low-E IG	PEL-N-177-01185-00001	2.5	2.5	argon	0.28	0.21	0.50	60						17					
	with grilles-between-the-glass	PEL-N-177-01186-00001				0.28	0.19	0.44	60						16					
	with integral grilles	PEL-N-177-01187-00001				0.29	0.19	0.44	60											
11/16"	AdvancedComfort Low-E IG	PEL-N-177-01161-00001	2.5	2.5	argon	0.25	0.28	0.52	49						25					
	with grilles-between-the-glass	PEL-N-177-01162-00001				0.25	0.25	0.47	49						23					
	with integral grilles	PEL-N-177-01163-00001				0.25	0.25	0.47	49						23					
11/16"	NaturalSun Low-E IG	PEL-N-177-01113-00001	2.5	2.5	argon	0.29	0.53	0.61	59						34					
	with grilles-between-the-glass	PEL-N-177-01114-00001				0.29	0.48	0.54	59						31					
	with integral grilles	PEL-N-177-01115-00001				0.30	0.48	0.54	59						30					
<b>TINTED GLAZING</b>																				
11/16"	Bronze Advanced Low-E IG	PEL-N-177-01209-00001	5	3	argon	0.29	0.25	0.34	54											
	with grilles-between-the-glass	PEL-N-177-01210-00001				0.30	0.23	0.31	54											
	with integral grilles	PEL-N-177-01211-00001				0.30	0.23	0.31	54											
11/16"	Gray Advanced Low-E IG	PEL-N-177-01217-00001	5	3	argon	0.29	0.23	0.30	58											
	with grilles-between-the-glass	PEL-N-177-01218-00001				0.30	0.21	0.26	58											
	with integral grilles	PEL-N-177-01219-00001				0.30	0.21	0.26	58											
11/16"	Green Advanced Low-E IG	PEL-N-177-01225-00001	5	3	argon	0.29	0.28	0.47	58											
	with grilles-between-the-glass	PEL-N-177-01226-00001				0.30	0.26	0.42	58											
	with integral grilles	PEL-N-177-01227-00001				0.30	0.26	0.42	58											
<b>HIGH ALTITUDE GLAZING</b>																				
11/16"	Advanced Low-E IG	PEL-N-177-01149-00001	2.5	2.5	air	0.32	0.29	0.54	56											
	with grilles-between-the-glass	PEL-N-177-01150-00001				0.32	0.26	0.48	56											
	with integral grilles	PEL-N-177-01151-00001				0.32	0.26	0.48	56											
11/16"	SunDefense™ Low-E IG	PEL-N-177-01197-00001	2.5	2.5	air	0.31	0.21	0.50	56											
	with grilles-between-the-glass	PEL-N-177-01198-00001				0.31	0.19	0.44	56											
	with integral grilles	PEL-N-177-01199-00001				0.32	0.19	0.44	56											
11/16"	AdvancedComfort Low-E IG	PEL-N-177-01173-00001	2.5	2.5	air	0.27	0.28	0.52	45						22					
	with grilles-between-the-glass	PEL-N-177-01174-00001				0.27	0.25	0.47	45						20					
	with integral grilles	PEL-N-177-01175-00001				0.28	0.25	0.47	44						19					
11/16"	NaturalSun Low-E IG	PEL-N-177-01125-00001	2.5	2.5	air	0.33	0.53	0.61	55						29					
	with grilles-between-the-glass	PEL-N-177-01126-00001				0.33	0.48	0.54	55						26					
	with integral grilles	PEL-N-177-01127-00001				0.33	0.48	0.54	55						26					

R-Value = 1/U-Factor  
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## GLAZING PERFORMANCE - TOTAL UNIT

Aluminum-Clad Exterior

HurricaneShield® Impact-Resistant Glass



Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown								
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sup>2</sup>				
										Zone				ER	Zone			
HURRICANESHIELD® LAMINATED IMPACT-RESISTANT										N	NC	SC	S		1	2	3	
13/16"	Clear IG	PEL-N-226-01193-00001	3	8	air	0.43	0.51	0.55	44									
	with grilles-between-the-glass	PEL-N-226-01194-00001				0.44	0.45	0.45	44									
	with integral grilles	PEL-N-226-01195-00001				0.43	0.45	0.45	44									
13/16"	Advanced Low-E IG	PEL-N-226-00997-00001	3	8	argon	0.28	0.25	0.47	59					19				
	with grilles-between-the-glass	PEL-N-226-00998-00001				0.29	0.23	0.42	58									
	with integral grilles	PEL-N-226-00999-00001				0.29	0.23	0.42	58									
13/16"	SunDefense™ Low-E IG	PEL-N-226-01069-00001	3	8	argon	0.28	0.19	0.43	59					16				
	with grilles-between-the-glass	PEL-N-226-01070-00001				0.28	0.17	0.38	59									
	with integral grilles	PEL-N-226-01071-00001				0.28	0.17	0.38	59									
TINTED GLAZING																		
13/16"	Bronze Advanced Low-E IG	PEL-N-226-01157-00001	5	8	argon	0.30	0.23	0.19	56									
	with grilles-between-the-glass	PEL-N-226-01158-00001				0.32	0.21	0.16	56									
	with integral grilles	PEL-N-226-01159-00001				0.32	0.21	0.16	56									
13/16"	Gray Advanced Low-E IG	PEL-N-226-01181-00001	5	8	argon	0.30	0.24	0.24	56									
	with grilles-between-the-glass	PEL-N-226-01182-00001				0.32	0.21	0.21	56									
	with integral grilles	PEL-N-226-01183-00001				0.32	0.21	0.21	56									
13/16"	Green Advanced Low-E IG	PEL-N-226-01189-00001	5	8	argon	0.30	0.25	0.38	56									
	with grilles-between-the-glass	PEL-N-226-01190-00001				0.32	0.22	0.34	56									
	with integral grilles	PEL-N-226-01191-00001				0.32	0.22	0.34	56									

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