



Aluminum Clad Wood Windows and Patio Doors

Product Performance Guide

11/3/2010

Clear Insulating Glass and High-Performance Glazings

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NFRC Thermal Performance Values

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Energy Saver Casement

		Glazing Description	U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	DP Ratings (Air/Water/Structural Performance)					
									DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
Air-Filled	No GIAS	Insul Clear	0.49	2.04	0.52	0.54	40	None	C-C50 36x72 BUS (31x67) Single Unit DP +50/-55	0.01	12.00	+75/-82.5	180-7432	Standard Product
		LowE Clear	0.37	2.70	0.26	0.45	49	S						
		LowE Clear SPF	0.37	2.70	0.26	0.44	50	S						
		Climate Control	0.37	2.70	0.24	0.44	50	S						
		Climate Control SPF	0.37	2.70	0.24	0.43	50	S						
		Super Sun Blocker	0.37	2.70	0.19	0.35	50	S						
	Super Sun Blocker SPF	0.37	2.70	0.19	0.34	50	S							
	366 LowE	0.34	2.94	0.19	0.41	55	S/C and S							
	w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.47	0.49	40	None	C-C50 36x72 BUS (31x67) Mull'd Unit DP +50/-50	0.01	7.50	+75/-75	180-7477	Standard Product
		LowE Clear	0.37	2.70	0.24	0.41	49	S						
		LowE Clear SPF	0.37	2.70	0.23	0.40	50	S						
		Climate Control	0.37	2.70	0.22	0.40	50	S						
Climate Control SPF		0.37	2.70	0.22	0.39	50	S							
Super Sun Blocker		0.37	2.70	0.17	0.31	50	S							
Super Sun Blocker SPF	0.37	2.70	0.17	0.31	50	S								
366 LowE	0.34	2.94	0.17	0.37	55	S/C and S								
w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.43	0.44	40	None	C-C50 36"x52" BUS (31x47) Single Unit DP +50/-60	0.01	12.00	+75/-90	180-7401	Standard Product	
	LowE Clear	0.37	2.70	0.22	0.37	49	S							
	LowE Clear SPF	0.37	2.70	0.21	0.36	50	S							
	Climate Control	0.37	2.70	0.20	0.36	50	S							
	Climate Control SPF	0.37	2.70	0.20	0.35	50	S							
	Super Sun Blocker	0.37	2.70	0.16	0.28	50	S							
Super Sun Blocker SPF	0.37	2.70	0.16	0.28	50	S								
366 LowE	0.34	2.94	0.16	0.33	55	S/C and S								
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.24	0.42	59	S/C and S	C-R35 28x84 BUS (23x79) Single Unit DP +35/-35	0.02	5.43	+52.63/-52.63	65472.01	Standard Product	
	Triple IG LE/CL/LE	0.31	3.23	0.22	0.36	63	N/C,S/C, S							
	Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.22	0.38	59	S/C and S							
	Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.20	0.32	63	N/C,S/C, S							
No GIAS	LowE Clear	0.34	2.94	0.27	0.47	53	S/C and S	C-C50 109"x85" Mull/Stack Combo 3w Csmt Operators 31x55 over 3w Csmt Pictures DP +50/-65	0.01	7.50	+75/-97.5	180-7476	Requires Aluminum Plate Mull for Vertical Mulls	
	LowE Clear SPF	0.34	2.94	0.25	0.45	53	S/C and S							
	Climate Control	0.35	2.86	0.24	0.44	53	S/C and S							
	Climate Control SPF	0.35	2.86	0.24	0.43	53	S/C and S							
	Super Sun Blocker	0.34	2.94	0.19	0.35	53	S/C and S							
	Super Sun Blocker SPF	0.34	2.94	0.18	0.34	53	S/C and S							
	366 LowE	0.31	3.23	0.18	0.41	58	N/C,S/C, S							
	w/ GIAS & CHDL < 1"	LowE Clear	0.34	2.94	0.24	0.41	53							S/C and S
		LowE Clear SPF	0.34	2.94	0.23	0.40	53							S/C and S
		Climate Control	0.35	2.86	0.22	0.40	53							S/C and S
		Climate Control SPF	0.35	2.86	0.22	0.39	53							S/C and S
		Super Sun Blocker	0.34	2.94	0.17	0.31	53							S/C and S
Super Sun Blocker SPF		0.34	2.94	0.17	0.31	53	S/C and S							
366 LowE	0.31	3.23	0.17	0.37	58	N/C,S/C, S								
w/ GIAS & CHDL ≥ 1"	LowE Clear	0.34	2.94	0.21	0.37	53	S/C and S							
	LowE Clear SPF	0.34	2.94	0.21	0.36	53	S/C and S							
	Climate Control	0.35	2.86	0.20	0.36	53	S/C and S							
	Climate Control SPF	0.35	2.86	0.20	0.35	53	S/C and S							
	Super Sun Blocker	0.34	2.94	0.16	0.28	53	S/C and S							
	Super Sun Blocker SPF	0.34	2.94	0.15	0.28	53	S/C and S							
366 LowE	0.31	3.23	0.15	0.33	58	N/C,S/C, S								
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.31	3.23	0.23	0.41	62	N/C,S/C, S							
	Triple IG LE/CL/LE	0.28	3.57	0.21	0.35	64	All Zones							
	Triple IG LE/CL/CL (CHDL)	0.31	3.23	0.21	0.37	62	N/C,S/C, S							
	Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.19	0.31	64	All Zones							

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values							
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
No GIAS	Insul Clear	0.49	2.04	0.50	0.53	39	None
	LowE Clear	0.38	2.63	0.26	0.45	49	S
	LowE Clear SPF	0.38	2.63	0.26	0.44	49	S
	Climate Control	0.38	2.63	0.24	0.44	49	S
	Climate Control SPF	0.38	2.63	0.24	0.43	49	S
	Super Sun Blocker	0.38	2.63	0.19	0.35	49	S
	Super Sun Blocker SPF	0.38	2.63	0.19	0.34	49	S
	366 LowE	0.34	2.94	0.19	0.41	55	S/C and S
	Insul Clear	0.49	2.04	0.46	0.47	39	None
	LowE Clear	0.38	2.63	0.24	0.41	49	S
LowE Clear SPF	0.38	2.63	0.23	0.40	49	S	
Climate Control	0.38	2.63	0.22	0.40	49	S	
Climate Control SPF	0.38	2.63	0.22	0.39	49	S	
Super Sun Blocker	0.38	2.63	0.17	0.31	49	S	
Super Sun Blocker SPF	0.38	2.63	0.17	0.31	49	S	
366 LowE	0.34	2.94	0.17	0.37	55	S/C and S	
Insul Clear	0.49	2.04	0.41	0.42	39	None	
LowE Clear	0.38	2.63	0.22	0.37	49	S	
LowE Clear SPF	0.38	2.63	0.21	0.36	49	S	
Climate Control	0.38	2.63	0.20	0.36	49	S	
Climate Control SPF	0.38	2.63	0.20	0.35	49	S	
Super Sun Blocker	0.38	2.63	0.16	0.28	49	S	
Super Sun Blocker SPF	0.38	2.63	0.16	0.28	49	S	
366 LowE	0.34	2.94	0.16	0.33	55	S/C and S	
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.23	0.41	59	S/C and S
Triple IG LE/CL/LE	0.31	3.23	0.21	0.35	63	N/C,S/C, S	
Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.21	0.37	59	S/C and S	
Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.19	0.31	63	N/C,S/C, S	
LowE Clear	0.35	2.86	0.26	0.45	51	S/C and S	
LowE Clear SPF	0.35	2.86	0.25	0.44	51	S/C and S	
Climate Control	0.35	2.86	0.24	0.44	51	S/C and S	
Climate Control SPF	0.35	2.86	0.24	0.43	51	S/C and S	
Super Sun Blocker	0.35	2.86	0.19	0.35	51	S/C and S	
Super Sun Blocker SPF	0.35	2.86	0.18	0.34	51	S/C and S	
366 LowE	0.31	3.23	0.18	0.41	58	N/C,S/C, S	
LowE Clear	0.36	2.78	0.24	0.41	51	S	
LowE Clear SPF	0.36	2.78	0.23	0.40	51	S	
Climate Control	0.36	2.78	0.22	0.40	51	S	
Climate Control SPF	0.36	2.78	0.22	0.40	51	S	
Super Sun Blocker	0.36	2.78	0.17	0.31	51	S	
Super Sun Blocker SPF	0.36	2.78	0.17	0.31	51	S	
366 LowE	0.31	3.23	0.17	0.37	58	N/C,S/C, S	
LowE Clear	0.36	2.78	0.21	0.37	51	S	
LowE Clear SPF	0.36	2.78	0.21	0.36	51	S	
Climate Control	0.36	2.78	0.20	0.36	51	S	
Climate Control SPF	0.36	2.78	0.20	0.36	51	S	
Super Sun Blocker	0.36	2.78	0.16	0.28	51	S	
Super Sun Blocker SPF	0.36	2.78	0.15	0.28	51	S	
366 LowE	0.31	3.23	0.15	0.33	58	N/C,S/C, S	
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.31	3.23	0.24	0.41	62	N/C,S/C, S
Triple IG LE/CL/LE	0.28	3.57	0.21	0.35	64	All Zones	
Triple IG LE/CL/CL (CHDL)	0.31	3.23	0.21	0.37	62	N/C,S/C, S	
Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.19	0.31	64	All Zones	

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
C-C50 36x72 Standard Single Unit	0.01	7.52	+75.19/-75.19	61699.01-602-44	Standard Product -- Truth tiebar, 3 keepers, 2 snubbers, dual arm operator
C-C50 36x52 Standard Single Unit	0.01	7.52	+75.19/-75.19	61699.01-602-44	Standard Product -- 2 locks, 1 snubber
C-C50 36x40 Standard Single Unit	0.01	7.52	+75.19/-75.19	61699.01-602-44	Standard Product -- 1 lock, no snubbers
SPRINGLINE C-R40 36x72 Standard Single Unit	0.20	7.50	+75/-60	180-7214	Standard Product

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Saver French Casement	Air-Filled	No GIAS	Insul Clear	0.49	2.04	0.52	0.54	40	None
			LowE Clear	0.37	2.70	0.26	0.45	49	S
			LowE Clear SPF	0.37	2.70	0.26	0.44	50	S
		Climate Control	0.37	2.70	0.24	0.44	50	S	
		Climate Control SPF	0.37	2.70	0.24	0.43	50	S	
		Super Sun Blocker	0.37	2.70	0.19	0.35	50	S	
	Super Sun Blocker SPF	0.37	2.70	0.19	0.34	50	S		
	366 LowE	0.34	2.94	0.19	0.41	55	S/C and S		
	w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.47	0.49	40	None	
		LowE Clear	0.37	2.70	0.24	0.41	49	S	
		LowE Clear SPF	0.37	2.70	0.23	0.40	50	S	
		Climate Control	0.37	2.70	0.22	0.40	50	S	
Climate Control SPF		0.37	2.70	0.22	0.39	50	S		
Super Sun Blocker		0.37	2.70	0.17	0.31	50	S		
Super Sun Blocker SPF	0.37	2.70	0.17	0.31	50	S			
366 LowE	0.34	2.94	0.17	0.37	55	S/C and S			
w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.43	0.44	40	None		
	LowE Clear	0.37	2.70	0.22	0.37	49	S		
	LowE Clear SPF	0.37	2.70	0.21	0.36	50	S		
	Climate Control	0.37	2.70	0.20	0.36	50	S		
	Climate Control SPF	0.37	2.70	0.20	0.35	50	S		
	Super Sun Blocker	0.37	2.70	0.16	0.28	50	S		
Super Sun Blocker SPF	0.37	2.70	0.16	0.28	50	S			
366 LowE	0.34	2.94	0.16	0.33	55	S/C and S			
Argon-Filled	No GIAS	LowE Clear	0.34	2.94	0.27	0.47	53	S/C and S	
		LowE Clear SPF	0.34	2.94	0.25	0.45	53	S/C and S	
		Climate Control	0.35	2.86	0.24	0.44	53	S/C and S	
		Climate Control SPF	0.35	2.86	0.24	0.43	53	S/C and S	
		Super Sun Blocker	0.34	2.94	0.19	0.35	53	S/C and S	
		Super Sun Blocker SPF	0.34	2.94	0.18	0.34	53	S/C and S	
	366 LowE	0.31	3.23	0.18	0.41	58	N/C,S/C, S		
	w/ GIAS & CHDL < 1"	LowE Clear	0.34	2.94	0.24	0.41	53	S/C and S	
		LowE Clear SPF	0.34	2.94	0.23	0.40	53	S/C and S	
		Climate Control	0.35	2.86	0.22	0.40	53	S/C and S	
		Climate Control SPF	0.35	2.86	0.22	0.39	53	S/C and S	
		Super Sun Blocker	0.34	2.94	0.17	0.31	53	S/C and S	
Super Sun Blocker SPF		0.34	2.94	0.17	0.31	53	S/C and S		
366 LowE	0.31	3.23	0.17	0.37	58	N/C,S/C, S			
w/ GIAS & CHDL ≥ 1"	LowE Clear	0.34	2.94	0.21	0.37	53	S/C and S		
	LowE Clear SPF	0.34	2.94	0.21	0.36	53	S/C and S		
	Climate Control	0.35	2.86	0.20	0.36	53	S/C and S		
	Climate Control SPF	0.35	2.86	0.20	0.35	53	S/C and S		
	Super Sun Blocker	0.34	2.94	0.16	0.28	53	S/C and S		
	Super Sun Blocker SPF	0.34	2.94	0.15	0.28	53	S/C and S		
366 LowE	0.31	3.23	0.15	0.33	58	N/C,S/C, S			

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
C-C30 72x72 Standard Single Unit	0.01	8.25	+45/-45	56382.01-602-47	None
C-C50 56x72 Standard Single Unit	0.01	8.25	+75.19/-75.19	61160.01-602-47	None
C-C50 64x64 Standard Single Unit	0.01	8.25	+75.19/-75.19	61160.01-602-47	None
C-C50 72x40 Standard Single Unit	0.01	8.25	+75.19/-75.19	61160.01-602-47	None

Note-All units that fall within 72"x60", 56"x72" or 64"x64" frame meet a DP 50 rating

NFRC Thermal Performance Values										DP Ratings (Air/Water/Structural Performance)					
		Glazing Description	U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating							
Energy Plus Casement	Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.50	0.53	40	None	DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
			LowE Clear	0.35	2.86	0.26	0.45	50	S/C and S						
			LowE Clear SPF	0.35	2.86	0.26	0.44	50	S/C and S						
			Climate Control	0.36	2.78	0.24	0.44	50	S						
			Climate Control SPF	0.36	2.78	0.24	0.43	50	S						
			Super Sun Blocker	0.35	2.86	0.19	0.35	51	S/C and S						
			Super Sun Blocker SPF	0.35	2.86	0.19	0.34	50	S/C and S						
			366 LowE	0.33	3.03	0.19	0.41	55	S/C and S						
		Insul Clear	0.47	2.13	0.46	0.47	40	None							
		LowE Clear	0.35	2.86	0.24	0.41	50	S/C and S							
	LowE Clear SPF	0.35	2.86	0.23	0.40	50	S/C and S								
	Climate Control	0.36	2.78	0.22	0.40	50	S								
	Climate Control SPF	0.36	2.78	0.22	0.39	50	S								
	Super Sun Blocker	0.35	2.86	0.17	0.31	51	S/C and S								
	Super Sun Blocker SPF	0.35	2.86	0.17	0.31	50	S/C and S								
	366 LowE	0.33	3.03	0.17	0.37	55	S/C and S								
	Insul Clear	0.47	2.13	0.41	0.42	40	None								
	LowE Clear	0.35	2.86	0.22	0.37	50	S/C and S								
	LowE Clear SPF	0.35	2.86	0.21	0.36	50	S/C and S								
	Climate Control	0.36	2.78	0.20	0.36	50	S								
	Climate Control SPF	0.36	2.78	0.20	0.35	50	S								
	Super Sun Blocker	0.35	2.86	0.16	0.28	51	S/C and S								
	Super Sun Blocker SPF	0.35	2.86	0.16	0.28	50	S/C and S								
	366 LowE	0.33	3.03	0.16	0.33	55	S/C and S								
	Triple IG NO GIAS	Triple IG LE/CL/CL	0.33	3.03	0.23	0.41	59	S/C and S							
	Triple IG LE/CL/LE	0.30	3.33	0.21	0.35	63	All Zones								
	Triple IG LE/CL/CL (CHDL)	0.33	3.03	0.21	0.37	59	S/C and S								
	Triple IG LE/CL/LE (CHDL)	0.30	3.33	0.19	0.31	63	All Zones								

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values										
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating			
Energy Plus Casement	Argon-Filled	No GIAS	LowE Clear	0.33	3.03	0.26	0.45	53	S/C and S	
			LowE Clear (Stainless Steel Spacer)	0.30	3.33	0.24	0.41	56	All Zones	
			LowE Clear SPF	0.33	3.03	0.25	0.44	53	S/C and S	
			LowE Clear SPF (Stainless Steel Spcr)	0.30	3.33	0.25	0.44	56	All Zones	
			Climate Control	0.33	3.03	0.24	0.44	53	S/C and S	
			Climate Control (Stainless Steel Spcr)	0.30	3.33	0.24	0.44	56	All Zones	
			Climate Control SPF	0.33	3.03	0.24	0.43	53	S/C and S	
			Climate Control SPF (Stainless Steel Spcr)	0.30	3.33	0.24	0.43	56	All Zones	
			Super Sun Blocker	0.33	3.03	0.19	0.35	53	S/C and S	
			Super Sun Blocker (Stainless Steel Spcr)	0.30	3.33	0.19	0.35	56	All Zones	
			Super Sun Blocker SPF	0.33	3.03	0.18	0.34	53	S/C and S	
			Super Sun Blocker SPF (Stainless Steel Spcr)	0.30	3.33	0.18	0.34	56	All Zones	
			366 LowE	0.30	3.33	0.18	0.41	58	All Zones	
			w/ GIAS & CHDL < 1"	LowE Clear	0.33	3.03	0.24	0.41	56	S/C and S
				LowE Clear (Stainless Steel Spacer)	0.30	3.33	0.24	0.41	53	All Zones
				LowE Clear SPF	0.33	3.03	0.23	0.40	53	S/C and S
				LowE Clear SPF (Stainless Steel Spacer)	0.30	3.33	0.23	0.40	56	All Zones
				Climate Control	0.33	3.03	0.22	0.40	53	S/C and S
	Climate Control (Stainless Steel Spacer)	0.30		3.33	0.22	0.40	56	All Zones		
	Climate Control SPF	0.33		3.03	0.22	0.39	53	S/C and S		
	Climate Control SPF (Stainless Steel Spacer)	0.30		3.33	0.22	0.39	56	All Zones		
	Super Sun Blocker	0.33		3.03	0.17	0.31	53	S/C and S		
	Super Sun Blocker (Stainless Steel Spacer)	0.30		3.33	0.17	0.31	56	All Zones		
	Super Sun Blocker SPF	0.33		3.03	0.17	0.31	53	S/C and S		
	Super Sun Blocker SPF (Stainless Steel Spcr)	0.30		3.33	0.17	0.31	56	All Zones		
	366 LowE	0.30		3.33	0.17	0.37	58	All Zones		
	w/ GIAS & CHDL ≥ 1"	LowE Clear		0.33	3.03	0.21	0.37	56	S/C and S	
		LowE Clear (Stainless Steel Spacer)		0.30	3.33	0.21	0.37	53	All Zones	
		LowE Clear SPF		0.33	3.03	0.21	0.36	53	S/C and S	
		LowE Clear SPF (Stainless Steel Spacer)		0.30	3.33	0.21	0.36	56	All Zones	
		Climate Control		0.33	3.03	0.20	0.36	53	S/C and S	
		Climate Control (Stainless Steel Spacer)	0.30	3.33	0.20	0.36	56	All Zones		
		Climate Control SPF	0.33	3.03	0.20	0.35	53	S/C and S		
		Climate Control SPF (Stainless Steel Spacer)	0.30	3.33	0.20	0.35	56	All Zones		
		Super Sun Blocker	0.33	3.03	0.16	0.28	53	S/C and S		
		Super Sun Blocker (Stainless Steel Spcr)	0.30	3.33	0.16	0.28	56	All Zones		
Super Sun Blocker SPF		0.33	3.03	0.15	0.28	53	S/C and S			
Super Sun Blocker SPF (Stainless Steel Spcr)		0.30	3.33	0.15	0.28	56	All Zones			
366 LowE		0.30	3.33	0.15	0.33	58	All Zones			
TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.30	3.33	0.23	0.41	62	All Zones		
		Triple IG LE/CL/LE	0.27	3.70	0.21	0.35	64	All Zones		
		Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.21	0.37	62	All Zones		
		Triple IG LE/CL/LE (CHDL)	0.27	3.70	0.19	0.31	64	All Zones		

See Previous Page for Air, Water, Structural Ratings:

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Saver Awning	Air-Filled	No GIAS	Insul Clear	0.49	2.04	0.52	0.54	40	None
			LowE Clear	0.37	2.70	0.27	0.47	49	S
			LowE Clear SPF	0.37	2.70	0.26	0.46	49	S
			Climate Control	0.37	2.70	0.25	0.46	49	S
			Climate Control SPF	0.37	2.70	0.25	0.45	49	S
			Super Sun Blocker	0.37	2.70	0.19	0.36	49	S
			Super Sun Blocker SPF	0.37	2.70	0.19	0.35	49	S
			366 LowE	0.35	2.86	0.19	0.43	53	S/C and S
	w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.47	0.49	40	None	
		LowE Clear	0.37	2.70	0.24	0.42	49	S	
		LowE Clear SPF	0.37	2.70	0.24	0.41	49	S	
		Climate Control	0.37	2.70	0.23	0.41	49	S	
		Climate Control SPF	0.37	2.70	0.23	0.40	49	S	
		Super Sun Blocker	0.37	2.70	0.18	0.32	49	S	
		Super Sun Blocker SPF	0.37	2.70	0.18	0.32	49	S	
		366 LowE	0.35	2.86	0.18	0.38	53	S/C and S	
	w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.43	0.44	40	None	
		LowE Clear	0.37	2.70	0.22	0.38	49	S	
		LowE Clear SPF	0.37	2.70	0.22	0.37	49	S	
		Climate Control	0.37	2.70	0.21	0.37	49	S	
		Climate Control SPF	0.37	2.70	0.21	0.36	49	S	
Super Sun Blocker		0.37	2.70	0.16	0.29	49	S		
Super Sun Blocker SPF		0.37	2.70	0.16	0.28	49	S		
366 LowE		0.35	2.86	0.16	0.34	53	S/C and S		
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.24	0.42	60	S/C and S		
	Triple IG LE/CL/LE	0.30	3.33	0.21	0.36	64	All Zones		
	Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.22	0.38	60	S/C and S		
	Triple IG LE/CL/LE (CHDL)	0.30	3.33	0.20	0.32	64	All Zones		
	LowE Clear	0.34	2.94	0.26	0.47	52	S/C and S		
No GIAS	LowE Clear SPF	0.34	2.94	0.26	0.46	52	S/C and S		
	Climate Control	0.34	2.94	0.25	0.46	52	S/C and S		
	Climate Control SPF	0.34	2.94	0.24	0.45	52	S/C and S		
	Super Sun Blocker	0.34	2.94	0.19	0.36	52	S/C and S		
	Super Sun Blocker SPF	0.34	2.94	0.19	0.35	52	S/C and S		
	366 LowE	0.32	3.13	0.19	0.43	53	N/C,S/C, S		
	Argon-Filled	w/ GIAS & CHDL < 1"	LowE Clear	0.34	2.94	0.24	0.42	51	S/C and S
LowE Clear SPF			0.34	2.94	0.24	0.41	51	S/C and S	
Climate Control			0.34	2.94	0.23	0.41	52	S/C and S	
Climate Control SPF			0.34	2.94	0.22	0.40	52	S/C and S	
Super Sun Blocker			0.34	2.94	0.17	0.32	51	S/C and S	
Super Sun Blocker SPF			0.34	2.94	0.17	0.32	51	S/C and S	
366 LowE			0.32	3.13	0.17	0.38	53	N/C,S/C, S	
w/ GIAS & CHDL ≥ 1"			LowE Clear	0.34	2.94	0.22	0.38	51	S/C and S
	LowE Clear SPF	0.34	2.94	0.22	0.37	52	S/C and S		
	Climate Control	0.34	2.94	0.21	0.37	52	S/C and S		
	Climate Control SPF	0.34	2.94	0.20	0.36	52	S/C and S		
	Super Sun Blocker	0.34	2.94	0.16	0.29	51	S/C and S		
	Super Sun Blocker SPF	0.34	2.94	0.16	0.28	51	S/C and S		
	366 LowE	0.32	3.13	0.16	0.34	53	N/C,S/C, S		
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.31	3.23	0.23	0.42	63	N/C,S/C, S	
Triple IG LE/CL/LE		0.27	3.70	0.21	0.36	67	All Zones		
Triple IG LE/CL/CL (CHDL)		0.31	3.23	0.21	0.38	63	N/C,S/C, S		
Triple IG LE/CL/LE (CHDL)		0.27	3.70	0.20	0.32	67	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
AP-C50 48x36 (43x31) Standard Single Unit	0.02	12.00	+75/-75	180-7402	*see below
AP-C40 48x48 (43x43) Standard Single Unit	0.01	12.00	+60/-82.5	180-7404	
AP-C35 60x32 (55x27) Standard Single Unit	0.01	12.00	+52.5/-60	180-7403	
AP-C50 55x36 (50x31) Muller Below 55x36 Fixed Csmt	0.01	7.50	+75/-75	180-7722	Requires 27" FeelSafe Tie Bar; Two Locks & Two Snubbers on Each Operating Unit

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values										DP Ratings (Air/Water/Structural Performance)					
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating								
Energy Plus Awning	Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.52	0.54	40	None	DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
			LowE Clear	0.35	2.86	0.27	0.47	49	S/C and S						
			LowE Clear SPF	0.35	2.86	0.26	0.46	49	S/C and S						
			Climate Control	0.35	2.86	0.25	0.46	49	S/C and S						
			Climate Control SPF	0.35	2.86	0.25	0.45	49	S/C and S						
			Super Sun Blocker	0.35	2.86	0.19	0.36	49	S/C and S						
			Super Sun Blocker SPF	0.35	2.86	0.19	0.35	49	S/C and S						
			366 LowE	0.32	3.13	0.19	0.43	53	N/C,S/C, S						
			Insul Clear	0.47	2.13	0.47	0.49	40	None						
	LowE Clear	0.35	2.86	0.24	0.42	49	S/C and S								
	LowE Clear SPF	0.35	2.86	0.24	0.41	49	S/C and S								
	Climate Control	0.35	2.86	0.23	0.41	49	S/C and S								
	Climate Control SPF	0.35	2.86	0.23	0.40	49	S/C and S								
	Super Sun Blocker	0.35	2.86	0.18	0.32	49	S/C and S								
	Super Sun Blocker SPF	0.35	2.86	0.18	0.32	49	S/C and S								
	366 LowE	0.32	3.13	0.18	0.38	53	N/C,S/C, S								
	Insul Clear	0.47	2.13	0.43	0.44	40	None								
	LowE Clear	0.35	2.86	0.22	0.38	49	S/C and S								
	LowE Clear SPF	0.35	2.86	0.22	0.37	49	S/C and S								
	Climate Control	0.35	2.86	0.21	0.37	49	S/C and S								
	Climate Control SPF	0.35	2.86	0.21	0.36	49	S/C and S								
	Super Sun Blocker	0.35	2.86	0.16	0.29	49	S/C and S								
	Super Sun Blocker SPF	0.35	2.86	0.16	0.28	49	S/C and S								
	366 LowE	0.32	3.13	0.16	0.34	53	N/C,S/C, S								
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.32	3.13	0.24	0.42	60	N/C,S/C, S	AP-C50 55x36 (50x31) Muller Below 55x36 Fixed Csmt	0.01	7.50	+75/-75	180-7722	Requires 27" FeelSafe Tie Bar; Two Locks & Two Snubbers on Each Operating Unit	
	Triple IG LE/CL/LE	0.28	3.57	0.21	0.36	64	All Zones								
	Triple IG LE/CL/CL (CHDL)	0.32	3.13	0.22	0.38	60	N/C,S/C, S								
	Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.20	0.32	64	All Zones								

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NFRC Thermal Performance Values									
		Glazing Description	U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Energy Plus Awning	Argon-filled	No GIAS	LowE Clear	0.32	3.13	0.26	0.47	52	N/C,S/C, S
			LowE Clear (Stainless Steel Spacer)	0.30	3.33	0.26	0.47	54	All Zones
			LowE Clear SPF	0.32	3.13	0.26	0.46	52	N/C,S/C, S
			LowE Clear SPF (Stainless Steel Spacer)	0.30	3.33	0.26	0.46	54	All Zones
			Climate Control	0.33	3.03	0.25	0.46	52	S/C and S
			Climate Control (Stainless Steel Spacer)	0.30	3.33	0.25	0.46	54	All Zones
			Climate Control SPF	0.33	3.03	0.24	0.45	52	S/C and S
			Climate Control SPF (Stainless Steel Spcr)	0.30	3.33	0.24	0.45	54	All Zones
			Super Sun Blocker	0.32	3.13	0.19	0.36	52	N/C,S/C, S
			Super Sun Blocker (Stainless Steel Spcr)	0.30	3.33	0.19	0.36	55	All Zones
			Super Sun Blocker SPF	0.32	3.13	0.19	0.35	52	N/C,S/C, S
			Super Sun Blocker SPF (Stainless Steel Spcr)	0.30	3.33	0.19	0.35	54	All Zones
			366 LowE	0.29	3.45	0.19	0.43	56	All Zones
			Argon-filled	w/ GIAS & CHDL < 1"	LowE Clear	0.33	3.03	0.24	0.42
	LowE Clear (Stainless Steel Spacer)	0.30			3.33	0.24	0.42	54	All Zones
	LowE Clear SPF	0.33			3.03	0.24	0.41	51	S/C and S
	LowE Clear SPF (Stainless Steel Spacer)	0.30			3.33	0.24	0.41	54	All Zones
	Climate Control	0.33			3.03	0.23	0.41	52	S/C and S
	Climate Control (Stainless Steel Spacer)	0.30			3.33	0.23	0.41	54	All Zones
	Climate Control SPF	0.33			3.03	0.22	0.40	52	S/C and S
	Climate Control SPF (Stainless Steel Spcr)	0.30			3.33	0.22	0.40	54	All Zones
	Super Sun Blocker	0.33			3.03	0.17	0.32	51	S/C and S
	Super Sun Blocker (Stainless Steel Spcr)	0.30			3.33	0.17	0.32	55	All Zones
	Super Sun Blocker SPF	0.33			3.03	0.17	0.32	51	S/C and S
	Super Sun Blocker SPF (Stainless Steel Spcr)	0.30			3.33	0.17	0.32	54	All Zones
	366 LowE	0.29			3.45	0.17	0.38	56	All Zones
	Argon-filled	w/ GIAS & CHDL ≥ 1"			LowE Clear	0.33	3.03	0.22	0.38
			LowE Clear (Stainless Steel Spacer)	0.30	3.33	0.22	0.38	54	All Zones
			LowE Clear SPF	0.33	3.03	0.22	0.37	51	S/C and S
			LowE Clear SPF (Stainless Steel Spacer)	0.30	3.33	0.22	0.37	54	All Zones
			Climate Control	0.33	3.03	0.21	0.37	52	S/C and S
			Climate Control (Stainless Steel Spacer)	0.30	3.33	0.21	0.37	54	All Zones
			Climate Control SPF	0.33	3.03	0.20	0.36	52	S/C and S
			Climate Control SPF (Stainless Steel Spcr)	0.30	3.33	0.20	0.36	54	All Zones
			Super Sun Blocker	0.33	3.03	0.16	0.29	51	S/C and S
			Super Sun Blocker (Stainless Steel Spcr)	0.30	3.33	0.16	0.29	55	All Zones
			Super Sun Blocker SPF	0.33	3.03	0.16	0.28	51	S/C and S
			Super Sun Blocker SPF (Stainless Steel Spcr)	0.30	3.33	0.16	0.28	54	All Zones
			366 LowE	0.29	3.45	0.16	0.34	56	All Zones
			TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.29	3.45	0.23	0.42	63
Triple IG LE/CL/LE	0.25	4.00		0.22	0.36	68	All Zones		
Triple IG LE/CL/CL (CHDL)	0.29	3.45		0.21	0.36	63	All Zones		
Triple IG LE/CL/LE (CHDL)	0.25	4.00		0.20	0.32	68	None		

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Saver Casement Picture	Air-Filled	No GIAS	Insul Clear	0.48	2.08	0.52	0.53	48	None
			LowE Clear	0.34	2.94	0.27	0.45	50	S/C and S
			LowE Clear SPF	0.34	2.94	0.26	0.45	50	S/C and S
			Climate Control	0.35	2.86	0.25	0.45	50	S/C and S
			Climate Control SPF	0.35	2.86	0.25	0.45	50	S/C and S
			Super Sun Blocker	0.34	2.94	0.20	0.35	50	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.19	0.34	50	S/C and S	
		366 LowE	0.34	2.94	0.22	0.49	53	S/C and S	
		w/ GIAS & CHDL < 1"	Insul Clear	0.48	2.08	0.47	0.47	40	None
			LowE Clear	0.34	2.94	0.24	0.41	50	S/C and S
			LowE Clear SPF	0.34	2.94	0.24	0.40	50	S/C and S
			Climate Control	0.35	2.86	0.23	0.40	50	S/C and S
	Climate Control SPF		0.35	2.86	0.23	0.39	50	S/C and S	
	Super Sun Blocker		0.34	2.94	0.18	0.32	50	S/C and S	
	w/ GIAS & CHDL ≥ 1"	Insul Clear	0.48	2.08	0.43	0.43	40	None	
		LowE Clear	0.34	2.94	0.22	0.37	50	S/C and S	
		LowE Clear SPF	0.34	2.94	0.22	0.36	50	S/C and S	
		Climate Control	0.35	2.86	0.21	0.36	50	S/C and S	
		Climate Control SPF	0.35	2.86	0.21	0.35	50	S/C and S	
		Super Sun Blocker	0.34	2.94	0.16	0.28	50	S/C and S	
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.27	0.49	55	S/C and S	
		Triple IG LE/CL/LE	0.31	3.23	0.25	0.41	58	N/C,S/C, S	
		Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.24	0.43	55	S/C and S	
		Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.22	0.37	58	N/C,S/C, S	
		LowE Clear	0.31	3.23	0.27	0.45	53	N/C,S/C, S	
	Argon-Filled	No GIAS	LowE Clear SPF	0.31	3.23	0.26	0.45	53	N/C,S/C, S
			Climate Control	0.31	3.23	0.25	0.45	53	N/C,S/C, S
			Climate Control SPF	0.31	3.23	0.25	0.44	53	N/C,S/C, S
			Super Sun Blocker	0.31	3.23	0.19	0.35	53	N/C,S/C, S
			Super Sun Blocker SPF	0.31	3.23	0.19	0.34	53	N/C,S/C, S
			366 LowE	0.30	3.33	0.22	0.49	53	All Zones
		w/ GIAS & CHDL < 1"	LowE Clear	0.32	3.13	0.24	0.41	52	N/C,S/C, S
			LowE Clear SPF	0.32	3.13	0.24	0.40	52	N/C,S/C, S
			Climate Control	0.32	3.13	0.23	0.40	52	N/C,S/C, S
			Climate Control SPF	0.32	3.13	0.23	0.39	52	N/C,S/C, S
			Super Sun Blocker	0.32	3.13	0.18	0.32	52	N/C,S/C, S
Super Sun Blocker SPF			0.32	3.13	0.17	0.31	52	N/C,S/C, S	
w/ GIAS & CHDL ≥ 1"	LowE Clear	0.32	3.13	0.22	0.37	52	N/C,S/C, S		
	LowE Clear SPF	0.32	3.13	0.22	0.36	52	N/C,S/C, S		
	Climate Control	0.32	3.13	0.21	0.36	52	N/C,S/C, S		
	Climate Control SPF	0.32	3.13	0.21	0.35	52	N/C,S/C, S		
	Super Sun Blocker	0.32	3.13	0.16	0.28	52	N/C,S/C, S		
	Super Sun Blocker SPF	0.32	3.13	0.16	0.28	52	N/C,S/C, S		
TRIPLE IG NO GIAS	366 LowE	0.31	3.23	0.18	0.39	53	N/C,S/C, S		
	Triple IG LE/CL/CL	0.30	3.33	0.27	0.49	58	All Zones		
	Triple IG LE/CL/LE	0.26	3.85	0.24	0.41	61	All Zones		
	Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.25	0.43	58	All Zones		
	Triple IG LE/CL/LE (CHDL)	0.26	3.85	0.22	0.37	61	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-C80 48x60 Std. Constr. Single Unit	0.01	12.00	+120/-120	180-7434	
FW-C35 52x84 Std. Constr. Single Unit	0.01	5.43	+52.63/-52.63	65473.01-602-44	
FW-C50 72x72 Std. Constr. Single Unit	0.01	12.00	+75/-75	180-7398	

Sizes tested for fixed units can be inverted (ie: 43"x55" qualifies 55"x43")

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Plus Casement Picture	Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.52	0.53	40	None
			LowE Clear	0.33	3.03	0.27	0.45	50	S/C and S
			LowE Clear SPF	0.33	3.03	0.26	0.45	50	S/C and S
			Climate Control	0.33	3.03	0.25	0.45	50	S/C and S
			Climate Control SPF	0.33	3.03	0.25	0.44	50	S/C and S
			Super Sun Blocker	0.33	3.03	0.20	0.35	50	S/C and S
			Super Sun Blocker SPF	0.33	3.03	0.19	0.34	50	S/C and S
			366 LowE	0.32	3.13	0.22	0.49	53	N/C,S/C, S
			w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.47	0.47	40
	LowE Clear	0.33		3.03	0.24	0.41	50	S/C and S	
	LowE Clear SPF	0.33		3.03	0.24	0.40	50	S/C and S	
	Climate Control	0.33		3.03	0.23	0.40	50	S/C and S	
	Climate Control SPF	0.33		3.03	0.23	0.39	50	S/C and S	
	Super Sun Blocker	0.33		3.03	0.18	0.31	50	S/C and S	
	Super Sun Blocker SPF	0.33		3.03	0.20	0.36	50	S/C and S	
	366 LowE	0.32		3.13	0.20	0.44	53	N/C,S/C, S	
	w/ GIAS & CHDL ≥ 1"	Insul Clear		0.47	2.13	0.43	0.43	40	None
		LowE Clear	0.33	3.03	0.22	0.37	50	S/C and S	
		LowE Clear SPF	0.33	3.03	0.22	0.36	50	S/C and S	
		Climate Control	0.33	3.03	0.21	0.36	50	S/C and S	
		Climate Control SPF	0.33	3.03	0.21	0.35	50	S/C and S	
		Super Sun Blocker	0.33	3.03	0.16	0.28	50	S/C and S	
		Super Sun Blocker SPF	0.33	3.03	0.16	0.28	50	S/C and S	
		366 LowE	0.32	3.13	0.18	0.39	53	N/C,S/C, S	
TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.33	3.03	0.27	0.49	55	S/C and S	
	Triple IG LE/CL/LE	0.29	3.45	0.25	0.41	58	All Zones		
	Triple IG LE/CL/CL (CHDL)	0.33	3.03	0.24	0.43	55	S/C and S		
	Triple IG LE/CL/LE (CHDL)	0.29	3.45	0.22	0.37	58	All Zones		
No GIAS	LowE Clear	0.30	3.33	0.27	0.45	53	All Zones		
	LowE Clear SPF	0.30	3.33	0.26	0.45	53	All Zones		
	Climate Control	0.30	3.33	0.25	0.45	53	All Zones		
	Climate Control SPF	0.30	3.33	0.25	0.44	53	All Zones		
	Super Sun Blocker	0.30	3.33	0.19	0.35	53	All Zones		
	Super Sun Blocker SPF	0.30	3.33	0.19	0.34	53	All Zones		
	366 LowE	0.29	3.45	0.22	0.49	53	All Zones		
	w/ GIAS & CHDL < 1"	LowE Clear	0.31	3.23	0.24	0.41	52	N/C,S/C, S	
		LowE Clear SPF	0.31	3.23	0.24	0.40	52	N/C,S/C, S	
Climate Control		0.31	3.23	0.23	0.40	53	N/C,S/C, S		
Climate Control SPF		0.31	3.23	0.22	0.39	53	N/C,S/C, S		
Super Sun Blocker		0.31	3.23	0.18	0.32	53	N/C,S/C, S		
Super Sun Blocker SPF		0.31	3.23	0.17	0.31	53	N/C,S/C, S		
366 LowE		0.30	3.33	0.20	0.44	53	All Zones		
w/ GIAS & CHDL ≥ 1"		LowE Clear	0.31	3.23	0.22	0.37	52	N/C,S/C, S	
		LowE Clear SPF	0.31	3.23	0.22	0.36	52	N/C,S/C, S	
	Climate Control	0.31	3.23	0.21	0.36	53	N/C,S/C, S		
	Climate Control SPF	0.31	3.23	0.21	0.35	53	N/C,S/C, S		
	Super Sun Blocker	0.31	3.23	0.16	0.28	53	N/C,S/C, S		
	Super Sun Blocker SPF	0.31	3.23	0.16	0.28	53	N/C,S/C, S		
	366 LowE	0.30	3.33	0.18	0.39	53	All Zones		
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.29	3.45	0.27	0.49	58	All Zones	
		Triple IG LE/CL/LE	0.25	4.00	0.24	0.41	62	All Zones	
Triple IG LE/CL/CL (CHDL)		0.29	3.45	0.24	0.43	58	All Zones		
Triple IG LE/CL/LE (CHDL)		0.25	4.00	0.22	0.37	62	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-C80 48x60 Std. Constr. Single Unit	0.01	12.00	+120/-120	180-7434	
FW-C35 52x84 Std. Constr. Single Unit	0.01	5.43	+52.63/-52.63	65473.01-602-44	
FW-C50 72x72 Std. Constr. Single Unit	0.01	12.00	+75/-75	180-7398	

Sizes tested for fixed units can be inverted (ie: 43"x55" qualifies 55"x43")

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values								DP Ratings (Air/Water/Structural Performance)							
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating								
Energy Saver Arched Casement Picture	Air-Filled	No GIAS	Insul Clear	0.49	2.04	0.52	0.53	39	None	DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
			LowE Clear	0.35	2.86	0.27	0.45	49	S/C and S						
			LowE Clear SPF	0.35	2.86	0.26	0.45	49	S/C and S						
			Climate Control	0.35	2.86	0.25	0.45	48	S/C and S						
			Climate Control SPF	0.35	2.86	0.25	0.44	48	S/C and S						
			Super Sun Blocker	0.35	2.86	0.20	0.35	49	S/C and S						
		Super Sun Blocker SPF	0.35	2.86	0.19	0.34	49	S/C and S							
		366 LowE	0.34	2.94	0.22	0.49	53	S/C and S							
		w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.47	0.47	39	None						
			LowE Clear	0.35	2.86	0.24	0.41	49	S/C and S						
			LowE Clear SPF	0.35	2.86	0.24	0.40	49	S/C and S						
			Climate Control	0.35	2.86	0.23	0.40	48	S/C and S						
	Climate Control SPF		0.35	2.86	0.23	0.39	48	S/C and S							
	Super Sun Blocker		0.35	2.86	0.18	0.32	49	S/C and S							
	w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.43	0.43	39	None							
		LowE Clear	0.35	2.86	0.22	0.37	49	S/C and S							
		LowE Clear SPF	0.35	2.86	0.22	0.36	49	S/C and S							
		Climate Control	0.35	2.86	0.21	0.36	48	S/C and S							
		Climate Control SPF	0.35	2.86	0.21	0.35	48	S/C and S							
		Super Sun Blocker	0.35	2.86	0.16	0.28	49	S/C and S							
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.18	0.39	58	S/C and S							
		Triple IG LE/CL/LE	0.31	3.23	0.25	0.41	62	N/C,S/C, S							
		Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.24	0.43	58	S/C and S							
		Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.20	0.33	62	N/C,S/C, S							
Argon-Filled		No GIAS	LowE Clear	0.32	3.13	0.27	0.45	51	N/C,S/C, S	FW-C80 48x60 Std. Constr. Single Unit	0.01	12.00	+120/-120	180-7434	
			LowE Clear SPF	0.32	3.13	0.26	0.45	51	N/C,S/C, S						
	Climate Control		0.32	3.13	0.25	0.45	51	N/C,S/C, S							
	Climate Control SPF		0.32	3.13	0.25	0.44	51	N/C,S/C, S							
	Super Sun Blocker		0.32	3.13	0.19	0.35	51	N/C,S/C, S							
	Super Sun Blocker SPF		0.31	3.23	0.19	0.34	52	N/C,S/C, S							
	366 LowE	0.30	3.33	0.22	0.49	53	All Zones								
	w/ GIAS & CHDL < 1"	LowE Clear	0.32	3.13	0.24	0.41	51	N/C,S/C, S							
		LowE Clear SPF	0.33	3.03	0.24	0.40	51	S/C and S							
		Climate Control	0.33	3.03	0.23	0.40	50	S/C and S							
		Climate Control SPF	0.33	3.03	0.23	0.39	50	S/C and S							
		Super Sun Blocker	0.32	3.13	0.18	0.32	51	N/C,S/C, S							
Super Sun Blocker SPF		0.32	3.13	0.17	0.31	51	N/C,S/C, S								
w/ GIAS & CHDL ≥ 1"	LowE Clear	0.32	3.13	0.22	0.44	53	N/C,S/C, S								
	LowE Clear SPF	0.32	3.13	0.22	0.37	51	N/C,S/C, S								
	Climate Control	0.33	3.03	0.21	0.36	50	S/C and S								
	Climate Control SPF	0.33	3.03	0.21	0.35	50	S/C and S								
	Super Sun Blocker	0.32	3.13	0.16	0.28	51	N/C,S/C, S								
	Super Sun Blocker SPF	0.32	3.13	0.16	0.28	51	N/C,S/C, S								
TRIPLE IG NO GIAS	366 LowE	0.31	3.23	0.18	0.39	53	N/C,S/C, S								
	Triple IG LE/CL/CL	0.29	3.45	0.27	0.49	58	All Zones								
	Triple IG LE/CL/LE	0.25	4.00	0.24	0.41	62	All Zones								
	Triple IG LE/CL/CL (CHDL)	0.29	3.45	0.24	0.43	58	All Zones								
	Triple IG LE/CL/LE (CHDL)	0.25	4.00	0.22	0.37	62	All Zones								
	FW-C50 72x72 Single Unit	0.01	7.50	+75/-75	TCT003452P-0110	None									
FW-C50 72x72 Standard Springline Unit	0.06	7.50	+75/-75	180-7235	None										

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NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Saver Casement Sash & Frame	Air-Filled	No GIAS	Insul Clear	0.48	2.08	0.52	0.53	48	None
			LowE Clear	0.34	2.94	0.27	0.45	50	S/C and S
			LowE Clear SPF	0.34	2.94	0.26	0.45	50	S/C and S
			Climate Control	0.35	2.86	0.25	0.45	50	S/C and S
			Climate Control SPF	0.35	2.86	0.25	0.45	50	S/C and S
			Super Sun Blocker	0.34	2.94	0.20	0.35	50	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.19	0.34	50	S/C and S	
		366 LowE	0.34	2.94	0.22	0.49	53	S/C and S	
		w/ GIAS & CHDL < 1"	Insul Clear	0.48	2.08	0.47	0.47	40	None
			LowE Clear	0.34	2.94	0.24	0.41	50	S/C and S
			LowE Clear SPF	0.34	2.94	0.24	0.40	50	S/C and S
			Climate Control	0.35	2.86	0.23	0.40	50	S/C and S
	Climate Control SPF		0.35	2.86	0.23	0.39	50	S/C and S	
	Super Sun Blocker		0.34	2.94	0.18	0.32	50	S/C and S	
	w/ GIAS & CHDL ≥ 1"	Insul Clear	0.48	2.08	0.43	0.43	40	None	
		LowE Clear	0.34	2.94	0.22	0.37	50	S/C and S	
		LowE Clear SPF	0.34	2.94	0.22	0.36	50	S/C and S	
		Climate Control	0.35	2.86	0.21	0.36	50	S/C and S	
		Climate Control SPF	0.35	2.86	0.21	0.35	50	S/C and S	
		Super Sun Blocker	0.34	2.94	0.16	0.28	50	S/C and S	
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.27	0.49	55	S/C and S	
		Triple IG LE/CL/LE	0.31	3.23	0.25	0.41	58	N/C,S/C, S	
		Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.24	0.43	55	S/C and S	
		Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.22	0.37	58	N/C,S/C, S	
		No GIAS	LowE Clear	0.31	3.23	0.27	0.45	53	N/C,S/C, S
			LowE Clear SPF	0.31	3.23	0.26	0.45	53	N/C,S/C, S
	Climate Control		0.31	3.23	0.25	0.45	53	N/C,S/C, S	
	Climate Control SPF		0.31	3.23	0.25	0.44	53	N/C,S/C, S	
	Super Sun Blocker		0.31	3.23	0.19	0.35	53	N/C,S/C, S	
	Super Sun Blocker SPF		0.31	3.23	0.19	0.34	53	N/C,S/C, S	
	Argon-Filled	w/ GIAS & CHDL < 1"	366 LowE	0.30	3.33	0.22	0.49	53	All Zones
			LowE Clear	0.32	3.13	0.24	0.41	52	N/C,S/C, S
			LowE Clear SPF	0.32	3.13	0.24	0.40	52	N/C,S/C, S
			Climate Control	0.32	3.13	0.23	0.40	52	N/C,S/C, S
			Climate Control SPF	0.32	3.13	0.23	0.39	52	N/C,S/C, S
			Super Sun Blocker	0.32	3.13	0.18	0.32	52	N/C,S/C, S
w/ GIAS & CHDL ≥ 1"		Super Sun Blocker SPF	0.32	3.13	0.17	0.31	52	N/C,S/C, S	
		366 LowE	0.31	3.23	0.20	0.44	53	N/C,S/C, S	
		LowE Clear	0.32	3.13	0.22	0.37	52	N/C,S/C, S	
		LowE Clear SPF	0.32	3.13	0.22	0.36	52	N/C,S/C, S	
		Climate Control	0.32	3.13	0.21	0.36	52	N/C,S/C, S	
		Climate Control SPF	0.32	3.13	0.21	0.35	52	N/C,S/C, S	
TRIPLE IG NO GIAS		Super Sun Blocker	0.32	3.13	0.16	0.28	52	N/C,S/C, S	
		Super Sun Blocker SPF	0.32	3.13	0.16	0.28	52	N/C,S/C, S	
		366 LowE	0.31	3.23	0.18	0.39	53	N/C,S/C, S	
		Triple IG LE/CL/CL	0.30	3.33	0.27	0.49	58	All Zones	
		Triple IG LE/CL/LE	0.26	3.85	0.24	0.41	61	All Zones	
		Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.25	0.43	58	All Zones	
Triple IG LE/CL/LE (CHDL)	0.26	3.85	0.22	0.37	61	All Zones			

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-C80 48x60 Std. Constr. Single Unit	0.01	12.00	+120/-120	180-7434	
FW-C35 52x84 Std. Constr. Single Unit	0.01	5.43	+52.63/-52.63	65473.01-602-44	
FW-C50 72x72 Std. Constr. Single Unit	0.01	12.00	+75/-75	180-7398	

Sizes tested for fixed units can be inverted (ie: 43"x55" qualifies 55"x43")

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Plus Casement Sash & Frame	Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.52	0.53	40	None
			LowE Clear	0.33	3.03	0.27	0.45	50	S/C and S
			LowE Clear SPF	0.33	3.03	0.26	0.45	50	S/C and S
			Climate Control	0.33	3.03	0.25	0.45	50	S/C and S
			Climate Control SPF	0.33	3.03	0.25	0.44	50	S/C and S
			Super Sun Blocker	0.33	3.03	0.20	0.35	50	S/C and S
			Super Sun Blocker SPF	0.33	3.03	0.19	0.34	50	S/C and S
			366 LowE	0.32	3.13	0.22	0.49	53	N/C,S/C, S
			Insul Clear	0.47	2.13	0.47	0.47	40	None
			LowE Clear	0.33	3.03	0.24	0.41	50	S/C and S
	LowE Clear SPF	0.33	3.03	0.24	0.40	50	S/C and S		
	Climate Control	0.33	3.03	0.23	0.40	50	S/C and S		
	Climate Control SPF	0.33	3.03	0.23	0.39	50	S/C and S		
	Super Sun Blocker	0.33	3.03	0.18	0.31	50	S/C and S		
	Super Sun Blocker SPF	0.33	3.03	0.20	0.36	50	S/C and S		
	366 LowE	0.32	3.13	0.20	0.44	53	N/C,S/C, S		
	Insul Clear	0.47	2.13	0.43	0.43	40	None		
	LowE Clear	0.33	3.03	0.22	0.37	50	S/C and S		
	LowE Clear SPF	0.33	3.03	0.22	0.36	50	S/C and S		
	Climate Control	0.33	3.03	0.21	0.36	50	S/C and S		
	Climate Control SPF	0.33	3.03	0.21	0.35	50	S/C and S		
	Super Sun Blocker	0.33	3.03	0.16	0.28	50	S/C and S		
	Super Sun Blocker SPF	0.33	3.03	0.16	0.28	50	S/C and S		
	366 LowE	0.32	3.13	0.18	0.39	53	N/C,S/C, S		
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.33	3.03	0.27	0.49	55	S/C and S	
	Triple IG LE/CL/LE	0.29	3.45	0.25	0.41	58	All Zones		
	Triple IG LE/CL/CL (CHDL)	0.33	3.03	0.24	0.43	55	S/C and S		
	Triple IG LE/CL/LE (CHDL)	0.29	3.45	0.22	0.37	58	All Zones		
	Argon-Filled	No GIAS	LowE Clear	0.30	3.33	0.27	0.45	53	All Zones
			LowE Clear SPF	0.30	3.33	0.26	0.45	53	All Zones
			Climate Control	0.30	3.33	0.25	0.45	53	All Zones
			Climate Control SPF	0.30	3.33	0.25	0.44	53	All Zones
			Super Sun Blocker	0.30	3.33	0.19	0.35	53	All Zones
			Super Sun Blocker SPF	0.30	3.33	0.19	0.34	53	All Zones
			366 LowE	0.29	3.45	0.22	0.49	53	All Zones
			LowE Clear	0.31	3.23	0.24	0.41	52	N/C,S/C, S
LowE Clear SPF			0.31	3.23	0.24	0.40	52	N/C,S/C, S	
Climate Control			0.31	3.23	0.23	0.40	53	N/C,S/C, S	
Climate Control SPF		0.31	3.23	0.22	0.39	53	N/C,S/C, S		
Super Sun Blocker		0.31	3.23	0.18	0.32	53	N/C,S/C, S		
Super Sun Blocker SPF		0.31	3.23	0.17	0.31	53	N/C,S/C, S		
366 LowE		0.30	3.33	0.20	0.44	53	All Zones		
LowE Clear		0.31	3.23	0.22	0.37	52	N/C,S/C, S		
LowE Clear SPF		0.31	3.23	0.22	0.36	52	N/C,S/C, S		
Climate Control		0.31	3.23	0.21	0.36	53	N/C,S/C, S		
Climate Control SPF		0.31	3.23	0.21	0.35	53	N/C,S/C, S		
Super Sun Blocker		0.31	3.23	0.16	0.28	53	N/C,S/C, S		
Super Sun Blocker SPF		0.31	3.23	0.16	0.28	53	N/C,S/C, S		
366 LowE		0.30	3.33	0.18	0.39	53	All Zones		
TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.29	3.45	0.27	0.49	58	All Zones	
Triple IG LE/CL/LE		0.25	4.00	0.24	0.41	62	All Zones		
Triple IG LE/CL/CL (CHDL)		0.29	3.45	0.24	0.43	58	All Zones		
Triple IG LE/CL/LE (CHDL)		0.25	4.00	0.22	0.37	62	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-C80 48x60 Std. Constr. Single Unit	0.01	12.00	+120/-120	180-7434	
FW-C35 52x84 Std. Constr. Single Unit	0.01	5.43	+52.63/-52.63	65473.01-602-44	
FW-C50 72x72 Std. Constr. Single Unit	0.01	12.00	+75/-75	180-7398	

Sizes tested for fixed units can be inverted (ie: 43"x55" qualifies 55"x43")

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values								DP Ratings (Air/Water/Structural Performance)							
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating								
Energy Saver Arched Casement Sash & Frame	Air-Filled	No GIAS	Insul Clear	0.49	2.04	0.52	0.53	39	None	DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
			LowE Clear	0.35	2.86	0.27	0.45	49	S/C and S						
			LowE Clear SPF	0.35	2.86	0.26	0.45	49	S/C and S						
			Climate Control	0.35	2.86	0.25	0.45	48	S/C and S						
			Climate Control SPF	0.35	2.86	0.25	0.44	48	S/C and S						
			Super Sun Blocker	0.35	2.86	0.20	0.35	49	S/C and S						
			Super Sun Blocker SPF	0.35	2.86	0.19	0.34	49	S/C and S						
			366 LowE	0.34	2.94	0.22	0.49	53	S/C and S						
		w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.47	0.47	39	None						
			LowE Clear	0.35	2.86	0.24	0.41	49	S/C and S						
			LowE Clear SPF	0.35	2.86	0.24	0.40	49	S/C and S						
			Climate Control	0.35	2.86	0.23	0.40	48	S/C and S						
			Climate Control SPF	0.35	2.86	0.23	0.39	48	S/C and S						
			Super Sun Blocker	0.35	2.86	0.18	0.32	49	S/C and S						
			Super Sun Blocker SPF	0.35	2.86	0.18	0.31	49	S/C and S						
			366 LowE	0.34	2.94	0.20	0.44	53	S/C and S						
		w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.43	0.43	39	None						
			LowE Clear	0.35	2.86	0.22	0.37	49	S/C and S						
			LowE Clear SPF	0.35	2.86	0.22	0.36	49	S/C and S						
			Climate Control	0.35	2.86	0.21	0.36	48	S/C and S						
	Climate Control SPF		0.35	2.86	0.21	0.35	48	S/C and S							
	Super Sun Blocker		0.35	2.86	0.16	0.28	49	S/C and S							
	Super Sun Blocker SPF		0.35	2.86	0.16	0.28	49	S/C and S							
	366 LowE		0.34	2.94	0.18	0.39	53	S/C and S							
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.18	0.39	58	S/C and S							
		Triple IG LE/CL/LE	0.31	3.23	0.25	0.41	62	N/C,S/C, S							
		Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.24	0.43	58	S/C and S							
		Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.20	0.33	62	N/C,S/C, S							
	Argon-Filled	No GIAS	LowE Clear	0.32	3.13	0.27	0.45	51	N/C,S/C, S	FW-C80 48x60 Std. Constr. Single Unit	0.01	12.00	+120/-120	180-7434	
			LowE Clear SPF	0.32	3.13	0.26	0.45	51	N/C,S/C, S						
			Climate Control	0.32	3.13	0.25	0.45	51	N/C,S/C, S						
			Climate Control SPF	0.32	3.13	0.25	0.44	51	N/C,S/C, S						
			Super Sun Blocker	0.32	3.13	0.19	0.35	51	N/C,S/C, S						
			Super Sun Blocker SPF	0.31	3.23	0.19	0.34	52	N/C,S/C, S						
			366 LowE	0.30	3.33	0.22	0.49	53	All Zones						
			w/ GIAS & CHDL < 1"	LowE Clear	0.32	3.13	0.24	0.41	51						
		LowE Clear SPF		0.33	3.03	0.24	0.40	51	S/C and S						
		Climate Control		0.33	3.03	0.23	0.40	50	S/C and S						
		Climate Control SPF		0.33	3.03	0.23	0.39	50	S/C and S						
		Super Sun Blocker		0.32	3.13	0.18	0.32	51	N/C,S/C, S						
Super Sun Blocker SPF		0.32		3.13	0.17	0.31	51	N/C,S/C, S							
366 LowE		0.31		3.23	0.20	0.44	53	N/C,S/C, S							
w/ GIAS & CHDL ≥ 1"		LowE Clear		0.32	3.13	0.22	0.37	51	N/C,S/C, S						
		LowE Clear SPF	0.33	3.03	0.22	0.36	51	S/C and S							
		Climate Control	0.33	3.03	0.21	0.36	50	S/C and S							
		Climate Control SPF	0.33	3.03	0.21	0.35	50	S/C and S							
		Super Sun Blocker	0.32	3.13	0.16	0.28	51	N/C,S/C, S							
		Super Sun Blocker SPF	0.32	3.13	0.16	0.28	51	N/C,S/C, S							
	366 LowE	0.31	3.23	0.18	0.39	53	N/C,S/C, S								
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.29	3.45	0.27	0.49	58	All Zones							
Triple IG LE/CL/LE		0.25	4.00	0.24	0.41	62	All Zones								
Triple IG LE/CL/CL (CHDL)		0.29	3.45	0.24	0.43	58	All Zones								
Triple IG LE/CL/LE (CHDL)		0.25	4.00	0.22	0.37	62	All Zones								
None	F-C50 72x72 Std. Constr. Single Unit	w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.47	0.47	39	None	0.01	12.00	+75/-75	06-30713.01	*5 screws per stop to secure sash to frame (20 total)	
			LowE Clear	0.35	2.86	0.24	0.41	49	S/C and S						
			LowE Clear SPF	0.35	2.86	0.24	0.40	49	S/C and S						
			Climate Control	0.35	2.86	0.23	0.40	48	S/C and S						
			Climate Control SPF	0.35	2.86	0.23	0.39	48	S/C and S						
			Super Sun Blocker	0.35	2.86	0.18	0.32	49	S/C and S						
			Super Sun Blocker SPF	0.35	2.86	0.18	0.31	49	S/C and S						
			366 LowE	0.34	2.94	0.20	0.44	53	S/C and S						
		TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.18	0.39	58	S/C and S						
			Triple IG LE/CL/LE	0.31	3.23	0.25	0.41	62	N/C,S/C, S						
			Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.24	0.43	58	S/C and S						
			Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.20	0.33	62	N/C,S/C, S						
None	FW-C50 72x72 Standard Springline Unit	w/ GIAS & CHDL < 1"	LowE Clear	0.32	3.13	0.27	0.45	51	N/C,S/C, S	0.06	7.50	+75/-75	180-7235	None	
			LowE Clear SPF	0.32	3.13	0.26	0.45	51	N/C,S/C, S						
			Climate Control	0.32	3.13	0.25	0.45	51	N/C,S/C, S						
			Climate Control SPF	0.32	3.13	0.25	0.44	51	N/C,S/C, S						
			Super Sun Blocker	0.32	3.13	0.19	0.35	51	N/C,S/C, S						
			Super Sun Blocker SPF	0.31	3.23	0.19	0.34	52	N/C,S/C, S						
			366 LowE	0.30	3.33	0.22	0.49	53	All Zones						
			TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.29	3.45	0.27	0.49	58						All Zones
		Triple IG LE/CL/LE		0.25	4.00	0.24	0.41	62	All Zones						
		Triple IG LE/CL/CL (CHDL)		0.29	3.45	0.24	0.43	58	All Zones						
		Triple IG LE/CL/LE (CHDL)		0.25	4.00	0.22	0.37	62	All Zones						

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NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Clad Energy Saver Premium Double Hung Air-Filled	No GIAS	Insul Clear	0.48	2.08	0.55	0.58	40	None	
		Insul Bronze	0.48	2.08	0.45	0.43	40	None	
		Insul Gray	0.48	2.08	0.42	0.39	40	None	
		LowE Clear	0.35	2.86	0.28	0.50	49	S/C and S	
		LowE Bronze	0.35	2.86	0.28	0.37	49	S/C and S	
		LowE Gray	0.35	2.86	0.26	0.33	49	S/C and S	
		LowE Clear SPF	0.35	2.86	0.28	0.49	50	S/C and S	
		Climate Control	0.35	2.86	0.27	0.49	49	S/C and S	
		Climate Control SPF	0.35	2.86	0.26	0.48	49	S/C and S	
		Super Sun Blocker	0.35	2.86	0.20	0.39	49	S/C and S	
		Super Sun Blocker SPF	0.35	2.86	0.20	0.38	50	S/C and S	
		Cardinal 366	0.34	2.94	0.20	0.46	54	S/C and S	
		LowE Clear W/Storm	0.27	3.70	0.29	0.46	62	S/C and S	
		Climate Control W/Storm	0.27	3.70	0.27	0.45	62	All Zones	
		Super Sun Blocker W/Storm	0.27	3.70	0.23	0.35	62	All Zones	
		Cardinal 366 W/Storm	0.26	3.85	0.22	0.42	64	All Zones	
		w/ GIAS & CHDL < 1"	Insul Clear	0.48	2.08	0.49	0.52	40	None
			Insul Bronze	0.48	2.08	0.40	0.38	40	None
	Insul Gray		0.48	2.08	0.37	0.34	40	None	
	LowE Clear		0.35	2.86	0.25	0.45	49	S/C and S	
	LowE Bronze		0.35	2.86	0.25	0.33	49	S/C and S	
	LowE Gray		0.35	2.86	0.23	0.30	49	S/C and S	
	LowE Clear SPF		0.35	2.86	0.25	0.43	50	S/C and S	
	Climate Control		0.35	2.86	0.24	0.44	49	S/C and S	
	Climate Control SPF		0.35	2.86	0.23	0.43	49	S/C and S	
	Super Sun Blocker		0.35	2.86	0.18	0.34	49	S/C and S	
	Super Sun Blocker SPF		0.35	2.86	0.18	0.33	50	S/C and S	
	Cardinal 366		0.34	2.94	0.18	0.41	54	S/C and S	
	LowE Clear W/Storm		0.27	3.70	0.26	0.41	62	All Zones	
	Climate Control W/Storm		0.27	3.70	0.25	0.40	62	All Zones	
	Super Sun Blocker W/Storm		0.27	3.70	0.21	0.31	62	All Zones	
	Cardinal 366 W/Storm		0.26	3.85	0.20	0.37	64	All Zones	
	w/ GIAS & CHDL ≥ 1"		Insul Clear	0.48	2.08	0.44	0.45	40	None
			Insul Bronze	0.48	2.08	0.36	0.34	40	None
		Insul Gray	0.48	2.08	0.33	0.30	40	None	
		LowE Clear	0.35	2.86	0.23	0.39	49	S/C and S	
LowE Bronze		0.35	2.86	0.22	0.29	49	S/C and S		
LowE Gray		0.35	2.86	0.21	0.26	49	S/C and S		
LowE Clear SPF		0.35	2.86	0.22	0.38	50	S/C and S		
Climate Control		0.35	2.86	0.21	0.38	49	S/C and S		
Climate Control SPF		0.35	2.86	0.21	0.38	49	S/C and S		
Super Sun Blocker		0.35	2.86	0.17	0.30	49	S/C and S		
Super Sun Blocker SPF		0.35	2.86	0.16	0.29	50	S/C and S		
Cardinal 366		0.34	2.94	0.16	0.36	54	S/C and S		
LowE Clear W/Storm		0.27	3.70	0.23	0.36	62	All Zones		
Climate Control W/Storm		0.27	3.70	0.22	0.36	62	All Zones		
Super Sun Blocker W/Storm		0.27	3.70	0.19	0.28	62	All Zones		
Cardinal 366 W/Storm		0.26	3.85	0.18	0.33	64	All Zones		

For this product's DP Ratings, please see next page

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values								DP Ratings (Air/Water/Structural Performance)						
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes	
Clad Energy Saver Premium Double Hung Argon-Filled	No GIAS	LowE Clear	0.32	3.13	0.28	0.50	54	S/C and S	H-LC35 34x93 Single (28x42) DP+35/-50	0.11	5.25	+52.5/-75	180-7438	None
		LowE Bronze	0.32	3.13	0.27	0.37	54	N/C,S/C, S						
		LowE Gray	0.32	3.13	0.26	0.33	54	N/C,S/C, S						
		LowE Clear SPF	0.32	3.13	0.28	0.49	55	S/C and S	H-LC35 46x93 Single (40x42)	0.11	5.25	+52.5/-75	180-7360	None
		Climate Control	0.33	3.03	0.26	0.49	55	S/C and S						
		Climate Control SPF	0.33	3.03	0.26	0.48	54	S/C and S						
		Super Sun Blocker	0.32	3.13	0.20	0.39	54	N/C,S/C, S	H-LC50 34x81 Single (28x36)	0.11	7.50	+75/-82.5	180-7437	DP50 units require high performance sill liner, frost barrier and support blocks behind balances. Please request DP50 upgrade if needed.
		Super Sun Blocker SPF	0.32	3.13	0.20	0.38	55	N/C,S/C, S						
		Cardinal 366	0.31	3.23	0.20	0.46	58	N/C,S/C, S						
		Solar Ban 70 w/Technoform Spcr ¹	0.30	3.33	0.20	0.45	62	All Zones	H-LC50 38x81 Single (32x36)	0.11	7.50	+75/-82.5	180-7361	
		LowE Clear W/Storm	0.25	4.00	0.28	0.46	64	S/C and S						
		Climate Control W/Storm	0.25	4.00	0.27	0.45	62	All Zones						
		Super Sun Blocker W/Storm	0.24	4.17	0.22	0.35	62	All Zones	H-LC50 46x65 Single (40x28) DP+50/-65	0.02	7.50	+75/-90	180-7436	
		366 LowE W/Storm	0.24	4.17	0.21	0.42	66	All Zones						
		LowE Clear	0.33	3.03	0.25	0.45	54	S/C and S						
	LowE Bronze	0.33	3.03	0.25	0.33	54	S/C and S	H-LC50 42x73 Single	0.11	7.50	+75/-97.5	180-7369		
	LowE Gray	0.33	3.03	0.23	0.30	54	S/C and S							
	LowE Clear SPF	0.32	3.13	0.25	0.43	55	N/C,S/C, S							
	Climate Control	0.33	3.03	0.24	0.44	54	S/C and S	H-LC50 75x77 Mullled (32x34)	0.17	7.50	+75/-75	180-7134		
	Climate Control SPF	0.33	3.03	0.23	0.43	54	S/C and S							
	Super Sun Blocker	0.32	3.13	0.18	0.34	54	N/C,S/C, S							
	Super Sun Blocker SPF	0.32	3.13	0.18	0.33	55	N/C,S/C, S	H-LC50 75x77 Mullled (32x34)	0.17	7.50	+75/-75	180-7134		
	Cardinal 366	0.31	3.23	0.18	0.41	58	N/C,S/C, S							
	Solar Ban 70 w/Technoform Spcr ¹	0.30	3.33	0.18	0.40	62	All Zones							
	LowE Clear W/Storm	0.25	4.00	0.25	0.41	63	All Zones	H-LC50 42x73 Single	0.11	7.50	+75/-97.5	180-7369		
	Climate Control W/Storm	0.25	4.00	0.24	0.40	63	All Zones							
	Super Sun Blocker W/Storm	0.24	4.17	0.20	0.31	63	All Zones							
	366 LowE W/Storm	0.24	4.17	0.19	0.37	66	All Zones	H-LC50 75x77 Mullled (32x34)	0.17	7.50	+75/-75	180-7134		
	LowE Clear	0.33	3.03	0.23	0.39	54	S/C and S							
	LowE Bronze	0.33	3.03	0.22	0.29	54	S/C and S							
	LowE Gray	0.33	3.03	0.21	0.26	54	S/C and S	H-LC50 75x77 Mullled (32x34)	0.17	7.50	+75/-75	180-7134		
	LowE Clear SPF	0.32	3.13	0.22	0.38	55	N/C,S/C, S							
	Climate Control	0.33	3.03	0.21	0.38	54	S/C and S							
Climate Control SPF	0.33	3.03	0.21	0.38	54	S/C and S	H-LC50 75x77 Mullled (32x34)	0.17	7.50	+75/-75	180-7134			
Super Sun Blocker	0.32	3.13	0.16	0.30	54	N/C,S/C, S								
Super Sun Blocker SPF	0.32	3.13	0.16	0.29	55	N/C,S/C, S								
Cardinal 366	0.31	3.23	0.16	0.36	58	N/C,S/C, S	H-LC50 75x77 Mullled (32x34)	0.17	7.50	+75/-75	180-7134			
Solar Ban 70 w/Technoform Spcr ¹	0.30	3.33	0.16	0.35	62	All Zones								
LowE Clear W/Storm	0.25	4.00	0.23	0.36	63	All Zones								
Climate Control W/Storm	0.25	4.00	0.22	0.35	63	All Zones	H-LC50 75x77 Mullled (32x34)	0.17	7.50	+75/-75	180-7134			
Super Sun Blocker W/Storm	0.24	4.17	0.18	0.28	63	All Zones								
366 LowE W/Storm	0.24	4.17	0.17	0.33	66	All Zones								

¹This glazing option requires Technoform spacer to meet this u-factor; must be selected in e-Bid in order to receive this rating.

NFRC Thermal Performance Values

Clad Energy Saver Premium Double Hung Sash Packs

Air-Filled

No GIAS

w/ GIAS & CHDL < 1"

w/ GIAS & CHDL ≥ 1"

Glazing Description	U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
Insul Clear	0.48	2.08	0.55	0.58	41	None
Insul Bronze	0.48	2.08	0.45	0.43	41	None
Insul Gray	0.48	2.08	0.42	0.39	41	None
LowE Clear	0.35	2.86	0.28	0.50	50	S/C and S
LowE Bronze	0.35	2.86	0.27	0.37	50	S/C and S
LowE Gray	0.35	2.86	0.26	0.34	50	S/C and S
LowE Clear SPF	0.35	2.86	0.28	0.49	50	S/C and S
Climate Control	0.35	2.86	0.26	0.49	49	S/C and S
Climate Control SPF	0.35	2.86	0.26	0.48	49	S/C and S
Super Sun Blocker	0.35	2.86	0.20	0.39	50	S/C and S
Super Sun Blocker SPF	0.35	2.86	0.20	0.38	50	S/C and S
366 LowE	0.33	3.03	0.20	0.46	54	S/C and S
LowE Clear W/Storm	0.25	4.00	0.29	0.46	62	S/C and S
Climate Control W/Storm	0.25	4.00	0.27	0.45	62	All Zones
Super Sun Blocker W/Storm	0.25	4.00	0.23	0.35	62	All Zones
366 LowE W/Storm	0.24	4.17	0.22	0.42	66	All Zones
Insul Clear	0.48	2.08	0.49	0.52	41	None
Insul Bronze	0.48	2.08	0.40	0.38	41	None
Insul Gray	0.48	2.08	0.37	0.34	41	None
LowE Clear	0.35	2.86	0.25	0.45	50	S/C and S
LowE Bronze	0.35	2.86	0.25	0.33	50	S/C and S
LowE Gray	0.35	2.86	0.23	0.30	50	S/C and S
LowE Clear SPF	0.35	2.86	0.25	0.44	50	S/C and S
Climate Control	0.35	2.86	0.24	0.44	49	S/C and S
Climate Control SPF	0.35	2.86	0.23	0.43	49	S/C and S
Super Sun Blocker	0.35	2.86	0.18	0.34	50	S/C and S
Super Sun Blocker SPF	0.35	2.86	0.18	0.34	50	S/C and S
366 LowE	0.33	3.03	0.18	0.41	54	S/C and S
LowE Clear W/Storm	0.25	4.00	0.26	0.41	62	All Zones
Climate Control W/Storm	0.25	4.00	0.24	0.40	62	All Zones
Super Sun Blocker W/Storm	0.25	4.00	0.21	0.31	62	All Zones
366 LowE W/Storm	0.24	4.17	0.20	0.37	66	All Zones
Insul Clear	0.48	2.08	0.44	0.45	41	None
Insul Bronze	0.48	2.08	0.35	0.34	41	None
Insul Gray	0.48	2.08	0.33	0.30	41	None
LowE Clear	0.35	2.86	0.23	0.39	50	S/C and S
LowE Bronze	0.35	2.86	0.22	0.29	50	S/C and S
LowE Gray	0.35	2.86	0.21	0.26	50	S/C and S
LowE Clear SPF	0.35	2.86	0.22	0.38	50	S/C and S
Climate Control	0.35	2.86	0.21	0.38	49	S/C and S
Climate Control SPF	0.35	2.86	0.21	0.38	49	S/C and S
Super Sun Blocker	0.35	2.86	0.16	0.30	50	S/C and S
Super Sun Blocker SPF	0.35	2.86	0.16	0.29	50	S/C and S
366 LowE	0.33	3.03	0.16	0.36	54	S/C and S
LowE Clear W/Storm	0.25	4.00	0.23	0.36	62	All Zones
Climate Control W/Storm	0.25	4.00	0.22	0.35	62	All Zones
Super Sun Blocker W/Storm	0.25	4.00	0.18	0.28	62	All Zones
366 LowE W/Storm	0.24	4.17	0.18	0.33	66	All Zones

NO DESIGN PRESSURE RATINGS AVAILABLE FOR SASH PACKS

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values

Clad Energy Saver Premium DH Sash Packs

Argon-Filled

No GIAS

w/ GIAS & CHDL < 1"

w/ GIAS & CHDL ≥ 1"

Glazing Description	U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
LowE Clear	0.32	3.13	0.28	0.50	52	S/C and S
LowE Clear W/Technoform Spacer ¹	0.30	3.33	0.28	0.50	59	S/C and S
LowE Bronze	0.32	3.13	0.27	0.37	52	N/C,S/C, S
LowE Gray	0.32	3.13	0.25	0.34	52	N/C,S/C, S
LowE Clear SPF	0.32	3.13	0.28	0.49	52	S/C and S
Climate Control	0.32	3.13	0.26	0.49	52	N/C,S/C, S
Climate Control SPF	0.32	3.13	0.26	0.48	52	N/C,S/C, S
Super Sun Blocker	0.32	3.13	0.20	0.39	52	N/C,S/C, S
Super Sunblocker W/Technoform Spacer ¹	0.30	3.33	0.20	0.39	59	All Zones
Super Sun Blocker SPF	0.32	3.13	0.20	0.38	52	N/C,S/C, S
366 LowE	0.30	3.33	0.20	0.46	58	All Zones
LowE Clear W/Storm	0.23	4.35	0.28	0.46	64	S/C and S
Climate Control W/Storm	0.23	4.35	0.27	0.45	64	All Zones
Super Sun Blocker W/Storm	0.23	4.35	0.22	0.35	64	All Zones
366 LowE W/Storm	0.22	4.55	0.21	0.42	68	All Zones
LowE Clear	0.32	3.13	0.25	0.45	52	N/C,S/C, S
LowE Clear W/Technoform Spacer ¹	0.30	3.33	0.25	0.45	59	All Zones
LowE Bronze	0.32	3.13	0.25	0.33	52	N/C,S/C, S
LowE Gray	0.32	3.13	0.23	0.30	52	N/C,S/C, S
LowE Clear SPF	0.32	3.13	0.25	0.44	52	N/C,S/C, S
Climate Control	0.32	3.13	0.23	0.44	52	N/C,S/C, S
Climate Control SPF	0.32	3.13	0.23	0.43	52	N/C,S/C, S
Super Sun Blocker	0.32	3.13	0.18	0.34	52	N/C,S/C, S
Super Sunblocker W/Technoform Spacer ¹	0.30	3.33	0.18	0.34	59	All Zones
Super Sun Blocker SPF	0.32	3.13	0.18	0.34	52	N/C,S/C, S
366 LowE	0.30	3.33	0.18	0.41	58	All Zones
LowE Clear W/Storm	0.23	4.35	0.25	0.41	64	All Zones
Climate Control W/Storm	0.23	4.35	0.24	0.40	64	All Zones
Super Sun Blocker W/Storm	0.23	4.35	0.20	0.31	64	All Zones
366 LowE W/Storm	0.22	4.55	0.20	0.37	68	All Zones
LowE Clear	0.32	3.13	0.22	0.39	52	N/C,S/C, S
LowE Clear W/Technoform Spacer ¹	0.30	3.33	0.22	0.39	59	All Zones
LowE Bronze	0.32	3.13	0.22	0.29	52	N/C,S/C, S
LowE Gray	0.32	3.13	0.20	0.26	52	N/C,S/C, S
LowE Clear SPF	0.32	3.13	0.22	0.38	52	N/C,S/C, S
Climate Control	0.32	3.13	0.21	0.38	52	N/C,S/C, S
Climate Control SPF	0.32	3.13	0.21	0.38	52	N/C,S/C, S
Super Sun Blocker	0.32	3.13	0.16	0.30	52	N/C,S/C, S
Super Sunblocker W/Technoform Spacer ¹	0.30	3.33	0.16	0.30	59	All Zones
Super Sun Blocker SPF	0.32	3.13	0.16	0.29	52	N/C,S/C, S
366 LowE	0.30	3.33	0.16	0.36	58	All Zones
LowE Clear W/Storm	0.23	4.35	0.22	0.36	64	All Zones
Climate Control W/Storm	0.23	4.35	0.21	0.35	64	All Zones
Super Sun Blocker W/Storm	0.23	4.35	0.18	0.28	65	All Zones
366 LowE W/Storm	0.22	4.55	0.17	0.33	68	All Zones

NO DESIGN PRESSURE RATINGS AVAILABLE FOR SASH PACKS

¹This glazing option requires Technoform spacer to meet this u-factor; must be selected in e-Bid in order to receive this rating.

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
No GIAS	Insul Clear	0.48	2.08	0.55	0.58	40	None	
	Insul Bronze	0.48	2.08	0.45	0.43	40	None	
	Insul Gray	0.48	2.08	0.42	0.39	40	None	
	LowE Clear	0.35	2.86	0.28	0.50	49	S/C and S	
	LowE Bronze	0.35	2.86	0.28	0.37	49	S/C and S	
	LowE Gray	0.35	2.86	0.26	0.33	49	S/C and S	
	LowE Clear SPF	0.35	2.86	0.28	0.49	50	S/C and S	
	Climate Control	0.35	2.86	0.27	0.49	49	S/C and S	
	Climate Control SPF	0.35	2.86	0.26	0.48	49	S/C and S	
	Super Sun Blocker	0.35	2.86	0.20	0.39	49	S/C and S	
	Super Sun Blocker SPF	0.35	2.86	0.20	0.38	50	S/C and S	
	Cardinal 366	0.34	2.94	0.20	0.46	54	S/C and S	
	LowE Clear W/Storm	0.27	3.70	0.29	0.46	62	S/C and S	
	Climate Control W/Storm	0.27	3.70	0.27	0.45	62	All Zones	
	Super Sun Blocker W/Storm	0.27	3.70	0.23	0.35	62	All Zones	
	Cardinal 366 W/Storm	0.26	3.85	0.22	0.42	64	All Zones	
	w/ GIAS & CHDL < 1"	Insul Clear	0.48	2.08	0.49	0.52	40	None
		Insul Bronze	0.48	2.08	0.40	0.38	40	None
Insul Gray		0.48	2.08	0.37	0.34	40	None	
LowE Clear		0.35	2.86	0.25	0.45	49	S/C and S	
LowE Bronze		0.35	2.86	0.25	0.33	49	S/C and S	
LowE Gray		0.35	2.86	0.23	0.30	49	S/C and S	
LowE Clear SPF		0.35	2.86	0.25	0.43	50	S/C and S	
Climate Control		0.35	2.86	0.24	0.44	49	S/C and S	
Climate Control SPF		0.35	2.86	0.23	0.43	49	S/C and S	
Super Sun Blocker		0.35	2.86	0.18	0.34	49	S/C and S	
Super Sun Blocker SPF		0.35	2.86	0.18	0.33	50	S/C and S	
Cardinal 366		0.34	2.94	0.18	0.41	54	S/C and S	
LowE Clear W/Storm		0.27	3.70	0.26	0.41	62	All Zones	
Climate Control W/Storm		0.27	3.70	0.25	0.40	62	All Zones	
Super Sun Blocker W/Storm		0.27	3.70	0.21	0.31	62	All Zones	
Cardinal 366 W/Storm		0.26	3.85	0.20	0.37	64	All Zones	
w/ GIAS & CHDL ≥ 1"		Insul Clear	0.48	2.08	0.44	0.45	40	None
		Insul Bronze	0.48	2.08	0.36	0.34	40	None
	Insul Gray	0.48	2.08	0.33	0.30	40	None	
	LowE Clear	0.35	2.86	0.23	0.39	49	S/C and S	
	LowE Bronze	0.35	2.86	0.22	0.29	49	S/C and S	
	LowE Gray	0.35	2.86	0.21	0.26	49	S/C and S	
	LowE Clear SPF	0.35	2.86	0.22	0.38	50	S/C and S	
	Climate Control	0.35	2.86	0.21	0.38	49	S/C and S	
	Climate Control SPF	0.35	2.86	0.21	0.38	49	S/C and S	
	Super Sun Blocker	0.35	2.86	0.17	0.30	49	S/C and S	
	Super Sun Blocker SPF	0.35	2.86	0.16	0.29	50	S/C and S	
	Cardinal 366	0.34	2.94	0.16	0.36	54	S/C and S	
	LowE Clear W/Storm	0.27	3.70	0.23	0.36	62	All Zones	
	Climate Control W/Storm	0.27	3.70	0.22	0.36	62	All Zones	
	Super Sun Blocker W/Storm	0.27	3.70	0.19	0.28	62	All Zones	
	Cardinal 366 W/Storm	0.26	3.85	0.18	0.33	64	All Zones	

For this product's DP Ratings, please see next page

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values								DP Ratings (Air/Water/Structural Performance)						
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes	
Clad Energy Saver Premium Single Hung Argon-Filled	No GIAS	LowE Clear	0.32	3.13	0.28	0.50	54	S/C and S	H-R35 46 x 73 Mulled (40x32) DP +35/-35	0.19	5.25	+52.5/-52.5	180-7721	None
		LowE Bronze	0.32	3.13	0.27	0.37	54	N/C,S/C, S						
		LowE Gray	0.32	3.13	0.26	0.33	54	N/C,S/C, S						
		LowE Clear SPF	0.32	3.13	0.28	0.49	55	S/C and S	H-R50 38 x 77 Single (32x34) DP +50/-50	0.07	7.50	+75/-75	180-7744	DP50 units require high performance sill liner, frost barrier and support blocks behind balances. Please request DP50 upgrade if needed.
		Climate Control	0.33	3.03	0.26	0.49	55	S/C and S						
		Climate Control SPF	0.33	3.03	0.26	0.48	54	S/C and S						
		Super Sun Blocker	0.32	3.13	0.20	0.39	54	N/C,S/C, S						
		Super Sun Blocker SPF	0.32	3.13	0.20	0.38	55	N/C,S/C, S						
		Cardinal 366	0.31	3.23	0.20	0.46	58	N/C,S/C, S						
		Solar Ban 70 w/Technoform Spcr ¹	0.30	3.33	0.20	0.45	62	All Zones	H-R50 75x77 Mulled (32x34) DP +50/-50	0.12	7.50	+75/-75	180-7743	
		LowE Clear W/Storm	0.25	4.00	0.28	0.46	64	S/C and S						
		Climate Control W/Storm	0.25	4.00	0.27	0.45	62	All Zones						
	Super Sun Blocker W/Storm	0.24	4.17	0.22	0.35	62	All Zones	w/ GIAS & CHDL < 1"	0.24	4.17	0.21	0.42	66	All Zones
	366 LowE W/Storm	0.24	4.17	0.21	0.42	66	All Zones							
	LowE Clear	0.33	3.03	0.25	0.45	54	S/C and S							
	LowE Bronze	0.33	3.03	0.25	0.33	54	S/C and S							
	LowE Gray	0.33	3.03	0.23	0.30	54	S/C and S							
	LowE Clear SPF	0.32	3.13	0.25	0.43	55	N/C,S/C, S							
	Climate Control	0.33	3.03	0.24	0.44	54	S/C and S							
	Climate Control SPF	0.33	3.03	0.23	0.43	54	S/C and S							
	Super Sun Blocker	0.32	3.13	0.18	0.34	54	N/C,S/C, S							
	Super Sun Blocker SPF	0.32	3.13	0.18	0.33	55	N/C,S/C, S							
	Cardinal 366	0.31	3.23	0.18	0.41	58	N/C,S/C, S							
	Solar Ban 70 w/Technoform Spcr ¹	0.30	3.33	0.18	0.40	62	All Zones							
	LowE Clear W/Storm	0.25	4.00	0.25	0.41	63	All Zones							
	Climate Control W/Storm	0.25	4.00	0.24	0.40	63	All Zones							
	Super Sun Blocker W/Storm	0.24	4.17	0.20	0.31	63	All Zones							
	366 LowE W/Storm	0.24	4.17	0.19	0.37	66	All Zones							
	w/ GIAS & CHDL ≥ 1"	LowE Clear	0.33	3.03	0.23	0.39	54	S/C and S						
		LowE Bronze	0.33	3.03	0.22	0.29	54	S/C and S						
		LowE Gray	0.33	3.03	0.21	0.26	54	S/C and S						
		LowE Clear SPF	0.32	3.13	0.22	0.38	55	N/C,S/C, S						
		Climate Control	0.33	3.03	0.21	0.38	54	S/C and S						
Climate Control SPF		0.33	3.03	0.21	0.38	54	S/C and S							
Super Sun Blocker		0.32	3.13	0.16	0.30	54	N/C,S/C, S							
Super Sun Blocker SPF		0.32	3.13	0.16	0.29	55	N/C,S/C, S							
Cardinal 366		0.31	3.23	0.16	0.36	58	N/C,S/C, S							
Solar Ban 70 w/Technoform Spcr ¹		0.30	3.33	0.16	0.35	62	All Zones							
LowE Clear W/Storm		0.25	4.00	0.23	0.36	63	All Zones							
Climate Control W/Storm		0.25	4.00	0.22	0.35	63	All Zones							
Super Sun Blocker W/Storm		0.24	4.17	0.18	0.28	63	All Zones							
366 LowE W/Storm		0.24	4.17	0.17	0.33	66	All Zones							

¹This glazing option requires Technoform spacer to meet this u-factor; must be selected in e-Bid in order to receive this rating.

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Clad Premium Double Hung Picture Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.58	0.60	43	None
		Insul Bronze	0.47	2.13	0.47	0.36	43	None
		Insul Gray	0.47	2.13	0.44	0.30	43	None
		LowE Clear	0.33	3.03	0.30	0.52	53	S/C and S
		LowE SPF	0.33	3.03	0.27	0.26	54	S/C and S
		LowE Bronze	0.33	3.03	0.29	0.31	53	S/C and S
		LowE Gray	0.33	3.03	0.27	0.26	53	S/C and S
		Climate Control	0.33	3.03	0.28	0.51	53	S/C and S
		Climate Control SPF	0.33	3.03	0.27	0.50	54	S/C and S
		Super Sun Blocker	0.33	3.03	0.21	0.40	53	S/C and S
		Super Sun Blocker SPF	0.33	3.03	0.21	0.39	54	S/C and S
		Cardinal 366	0.32	3.13	0.21	0.47	57	N/C,S/C, S
		w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.52	0.53	43
	Insul Bronze		0.47	2.13	0.42	0.32	43	None
	Insul Gray		0.47	2.13	0.39	0.27	43	None
	LowE Clear		0.33	3.03	0.27	0.46	53	S/C and S
	LowE SPF		0.33	3.03	0.24	0.23	54	S/C and S
	LowE Bronze		0.33	3.03	0.26	0.27	53	S/C and S
	LowE Gray		0.33	3.03	0.24	0.23	53	S/C and S
	Climate Control		0.33	3.03	0.25	0.45	53	S/C and S
	Climate Control SPF		0.33	3.03	0.25	0.44	54	S/C and S
	Super Sun Blocker		0.33	3.03	0.19	0.36	53	S/C and S
	Super Sun Blocker SPF		0.33	3.03	0.19	0.35	54	S/C and S
	Cardinal 366		0.32	3.13	0.19	0.42	57	N/C,S/C, S
	w/ GIAS & CHDL ≥ 1"		Insul Clear	0.47	2.13	0.46	0.47	43
		Insul Bronze	0.47	2.13	0.38	0.28	43	None
		Insul Gray	0.47	2.13	0.35	0.23	43	None
		LowE Clear	0.33	3.03	0.24	0.41	53	S/C and S
		LowE SPF	0.33	3.03	0.22	0.20	54	S/C and S
		LowE Bronze	0.33	3.03	0.23	0.24	53	S/C and S
		LowE Gray	0.33	3.03	0.22	0.20	53	S/C and S
		Climate Control	0.33	3.03	0.22	0.40	53	S/C and S
		Climate Control SPF	0.33	3.03	0.22	0.39	54	S/C and S
Super Sun Blocker		0.33	3.03	0.17	0.31	53	S/C and S	
Super Sun Blocker SPF		0.33	3.03	0.17	0.31	54	S/C and S	
Cardinal 366		0.32	3.13	0.17	0.37	57	N/C,S/C, S	
TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.30	3.33	0.26	0.48	60	All Zones
	Triple IG LE/CL/LE	0.26	3.85	0.24	0.41	61	All Zones	
	Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.24	0.43	60	All Zones	
	Triple IG LE/CL/LE (CHDL)	0.26	3.85	0.21	0.36	61	All Zones	

For this product's DP Ratings, please see next page

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Clad Premium Double Hung Picture	Argon-Filled	No GIAS	LowE Clear	0.30	3.33	0.29	0.52	56	S/C and S
			LowE Clear SPF	0.30	3.33	0.29	0.51	57	S/C and S
			LowE Bronze	0.30	3.33	0.29	0.31	56	S/C and S
			LowE Gray	0.30	3.33	0.27	0.26	56	All Zones
			Climate Control	0.30	3.33	0.27	0.51	56	All Zones
			Climate Control SPF	0.30	3.33	0.27	0.50	56	All Zones
			Super Sun Blocker	0.30	3.33	0.21	0.40	56	All Zones
			Super Sun Blocker SPF	0.30	3.33	0.21	0.39	57	All Zones
			Cardinal 366	0.29	3.45	0.21	0.47	60	All Zones
	w/ GIAS & CHDL < 1"	LowE Clear	0.30	3.33	0.27	0.46	55	All Zones	
		LowE Clear SPF	0.30	3.33	0.26	0.45	56	All Zones	
		LowE Bronze	0.30	3.33	0.26	0.27	55	All Zones	
		LowE Gray	0.30	3.33	0.24	0.23	55	All Zones	
		Climate Control	0.30	3.33	0.25	0.45	56	All Zones	
		Climate Control SPF	0.30	3.33	0.24	0.44	56	All Zones	
		Super Sun Blocker	0.30	3.33	0.19	0.36	56	All Zones	
		Super Sun Blocker SPF	0.30	3.33	0.19	0.35	56	All Zones	
		Cardinal 366	0.29	3.45	0.19	0.42	60	All Zones	
	w/ GIAS & CHDL ≥ 1"	LowE Clear	0.30	3.33	0.24	0.41	55	All Zones	
		LowE Clear SPF	0.30	3.33	0.23	0.40	56	All Zones	
		LowE Bronze	0.30	3.33	0.23	0.24	55	All Zones	
		LowE Gray	0.30	3.33	0.22	0.20	55	All Zones	
		Climate Control	0.30	3.33	0.22	0.40	56	All Zones	
		Climate Control SPF	0.30	3.33	0.22	0.39	56	All Zones	
		Super Sun Blocker	0.30	3.33	0.17	0.31	56	All Zones	
		Super Sun Blocker SPF	0.30	3.33	0.17	0.31	56	All Zones	
		Cardinal 366	0.29	3.45	0.17	0.37	60	All Zones	
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.27	3.70	0.26	0.48	61	All Zones	
		Triple IG LE/CL/LE	0.23	4.35	0.24	0.41	61	All Zones	
		Triple IG LE/CL/CL (CHDL)	0.27	3.70	0.24	0.43	61	All Zones	
		Triple IG LE/CL/LE (CHDL)	0.23	4.35	0.21	0.36	61	All Zones	

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-C35 69x81 DP+35/-50 Standard Single Unit	0.04	5.25	+52.5/-75	180-7435	None
FW-C35 61x93 Single Unit	0.08	5.25	+52.5/-75	180-7379	None
FW-C50 61x81 DP+50/-85 Single Unit	0.10	7.50	+75/-120	180-7383	DP50 units require high performance sill liner & frost barrier (please request upgrade if needed)

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values							
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
No GIAS	Insul Clear	0.47	2.13	0.59	0.60	41	None
	Insul Bronze	0.47	2.13	0.48	0.36	41	None
	Insul Gray	0.47	2.13	0.44	0.30	41	None
	LowE Clear	0.34	2.94	0.30	0.52	51	S/C and S
	LowE Bronze	0.34	2.94	0.29	0.31	51	S/C and S
	LowE Gray	0.34	2.94	0.28	0.26	51	S/C and S
	LowE Clear SPF	0.34	2.94	0.30	0.51	52	S/C and S
	Climate Control	0.34	2.94	0.28	0.51	51	S/C and S
	Climate Control SPF	0.34	2.94	0.28	0.50	52	S/C and S
	Super Sun Blocker	0.34	2.94	0.22	0.40	51	S/C and S
	Super Sun Blocker SPF	0.34	2.94	0.22	0.40	52	S/C and S
	Cardinal 366	0.33	3.03	0.21	0.48	56	S/C and S
w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.53	0.54	41	None
	Insul Bronze	0.47	2.13	0.43	0.32	41	None
	Insul Gray	0.47	2.13	0.40	0.27	41	None
	LowE Clear	0.34	2.94	0.27	0.46	51	S/C and S
	LowE Bronze	0.34	2.94	0.27	0.28	51	S/C and S
	LowE Gray	0.34	2.94	0.25	0.23	51	S/C and S
	LowE Clear SPF	0.34	2.94	0.27	0.46	52	S/C and S
	Climate Control	0.34	2.94	0.26	0.46	51	S/C and S
	Climate Control SPF	0.34	2.94	0.25	0.45	52	S/C and S
	Super Sun Blocker	0.34	2.94	0.20	0.36	51	S/C and S
	Super Sun Blocker SPF	0.34	2.94	0.20	0.35	52	S/C and S
	Cardinal 366	0.33	3.03	0.19	0.42	56	S/C and S
w/ GIAS & CHDL ≥ 1"	Insul Clear	0.47	2.13	0.47	0.48	41	None
	Insul Bronze	0.47	2.13	0.38	0.28	41	None
	Insul Gray	0.47	2.13	0.36	0.24	41	None
	LowE Clear	0.34	2.94	0.24	0.41	51	S/C and S
	LowE Bronze	0.34	2.94	0.24	0.24	51	S/C and S
	LowE Gray	0.34	2.94	0.22	0.20	51	S/C and S
	LowE Clear SPF	0.34	2.94	0.24	0.40	52	S/C and S
	Climate Control	0.34	2.94	0.23	0.40	51	S/C and S
	Climate Control SPF	0.34	2.94	0.23	0.40	52	S/C and S
	Super Sun Blocker	0.34	2.94	0.18	0.32	51	S/C and S
	Super Sun Blocker SPF	0.34	2.94	0.18	0.31	52	S/C and S
	Cardinal 366	0.33	3.03	0.18	0.37	56	S/C and S
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.30	3.33	0.27	0.48	61	All Zones
	Triple IG LE/CL/LE	0.26	3.85	0.24	0.41	64	All Zones
	Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.24	0.43	64	All Zones
	Triple IG LE/CL/LE (CHDL)	0.26	3.85	0.22	0.37	64	All Zones

For this product's DP Ratings, please see next page

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Clad Premium Double Hung Sash & Frame Argon-Filled	No GIAS	LowE Clear	0.30	3.33	0.30	0.52	54	S/C and S
		LowE Bronze	0.30	3.33	0.29	0.31	54	S/C and S
		LowE Gray	0.30	3.33	0.27	0.26	54	All Zones
		LowE Clear SPF	0.30	3.33	0.29	0.51	55	S/C and S
		Climate Control	0.31	3.23	0.28	0.51	54	S/C and S
		Climate Control SPF	0.31	3.23	0.28	0.50	55	S/C and S
		Super Sun Blocker	0.30	3.33	0.21	0.40	54	All Zones
		Super Sun Blocker SPF	0.30	3.33	0.21	0.40	55	All Zones
		Cardinal 366	0.29	3.45	0.21	0.48	59	All Zones
	w/ GIAS & CHDL < 1"	LowE Clear	0.30	3.33	0.27	0.46	53	All Zones
		LowE Bronze	0.30	3.33	0.26	0.28	53	All Zones
		LowE Gray	0.30	3.33	0.25	0.23	53	All Zones
		LowE Clear SPF	0.30	3.33	0.27	0.46	54	All Zones
		Climate Control	0.31	3.23	0.25	0.46	53	N/C,S/C, S
		Climate Control SPF	0.31	3.23	0.25	0.45	54	N/C,S/C, S
		Super Sun Blocker	0.30	3.33	0.19	0.36	54	All Zones
		Super Sun Blocker SPF	0.30	3.33	0.19	0.35	54	All Zones
		Cardinal 366	0.29	3.45	0.19	0.42	59	All Zones
	w/ GIAS & CHDL ≥ 1"	LowE Clear	0.30	3.33	0.24	0.41	53	All Zones
		LowE Bronze	0.30	3.33	0.24	0.24	53	All Zones
		LowE Gray	0.30	3.33	0.22	0.20	53	All Zones
		LowE Clear SPF	0.30	3.33	0.24	0.40	54	All Zones
		Climate Control	0.31	3.23	0.23	0.40	53	N/C,S/C, S
		Climate Control SPF	0.31	3.23	0.22	0.40	54	N/C,S/C, S
		Super Sun Blocker	0.30	3.33	0.17	0.32	54	All Zones
		Super Sun Blocker SPF	0.30	3.33	0.17	0.31	54	All Zones
		Cardinal 366	0.29	3.45	0.17	0.37	59	All Zones
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.27	3.70	0.26	0.48	64	All Zones
		Triple IG LE/CL/LE	0.23	4.35	0.24	0.41	64	All Zones
		Triple IG LE/CL/CL (CHDL)	0.27	3.70	0.24	0.43	64	All Zones
		Triple IG LE/CL/LE (CHDL)	0.23	4.35	0.22	0.37	64	All Zones

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-C50 76x78 DP+50/-65 Standard Single Unit	0.01	12.00	+75/-97.5	180-7399	None
FW-C50 59x102 DP+50/-65 Standard Single Unit	0.03	7.50	+75/-97.5	180-7380	None

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NFRC Thermal Performance Values								DP Ratings (Air/Water/Structural Performance)														
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating															
Monument Clad Sliding Window	Air-Filled	No GIAS	Insul Clear	0.50	2.00	0.58	0.61	39	DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes								
			LowE Clear	0.37	2.70	0.29	0.52	48							None							
			LowE Clear SPF	0.37	2.70	0.29	0.51	48							None							
			LowE Bronze	0.37	2.70	0.29	0.39	48							None							
			LowE Gray	0.37	2.70	0.27	0.35	48							S							
			Climate Control	0.37	2.70	0.28	0.51	48							None							
			Climate Control SPF	0.37	2.70	0.27	0.50	48							S							
			Super Sun Blocker	0.37	2.70	0.21	0.40	48							S							
			Super Sun Blocker SPF	0.37	2.70	0.21	0.39	48							S							
			Cardinal 366	0.36	2.78	0.21	0.48	53							S							
			Insul Clear	0.50	2.00	0.51	0.54	39							None							
			LowE Clear	0.37	2.70	0.26	0.46	48							S							
	LowE Clear SPF	0.37	2.70	0.26	0.45	48	S															
	LowE Bronze	0.37	2.70	0.26	0.34	48	S															
	LowE Gray	0.37	2.70	0.24	0.31	48	S															
	Climate Control	0.37	2.70	0.25	0.46	48	S															
	Climate Control SPF	0.37	2.70	0.24	0.44	48	S															
	Super Sun Blocker	0.37	2.70	0.19	0.36	48	S															
	Super Sun Blocker SPF	0.37	2.70	0.19	0.35	48	S															
	Cardinal 366	0.36	2.78	0.19	0.42	53	S															
	Air-Filled	w/ GIAS & CHDL < 1"	HS-C35 72x55 (DP+35/-35) Single Units Only	Insul Clear	0.50	2.00	0.46	0.47	39	0.08	5.25	+52.5/-52.5	180-7844	None								
				LowE Clear	0.37	2.70	0.24	0.41	48						S							
				LowE Clear SPF	0.37	2.70	0.23	0.40	48						S							
				LowE Bronze	0.37	2.70	0.23	0.30	48						S							
				LowE Gray	0.37	2.70	0.22	0.27	48						S							
				Climate Control	0.37	2.70	0.22	0.40	48						S							
				Climate Control SPF	0.37	2.70	0.22	0.39	48						S							
				Super Sun Blocker	0.37	2.70	0.17	0.32	48						S							
				Super Sun Blocker SPF	0.37	2.70	0.17	0.31	48						S							
				Cardinal 366	0.36	2.78	0.17	0.37	53						S							
				Air-Filled	w/ GIAS & CHDL ≥ 1"	HS-C35 119x59 (DP+35/-35) Equal Lite Triple Slider	Insul Clear	0.50	2.00						0.46	0.47	39	0.14	5.25	+52.5/-52.5	180-7845	None
							LowE Clear	0.37	2.70						0.24	0.41	48					
	LowE Clear SPF	0.37	2.70				0.23	0.40	48	S												
LowE Bronze	0.37	2.70	0.23				0.30	48	S													
LowE Gray	0.37	2.70	0.22				0.27	48	S													
Climate Control	0.37	2.70	0.22				0.40	48	S													
Climate Control SPF	0.37	2.70	0.22				0.39	48	S													
Super Sun Blocker	0.37	2.70	0.17				0.32	48	S													
Super Sun Blocker SPF	0.37	2.70	0.17				0.31	48	S													
Cardinal 366	0.36	2.78	0.17				0.37	53	S													
Air-Filled	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.33				3.03	0.26	0.47	58	S/C and S											
		Triple IG LE/CL/LE	0.29				3.45	0.24	0.40	59	All Zones											
		Triple IG LE/CL/CL (CHDL)	0.33	3.03	0.23	0.42	58	S/C and S														
		Triple IG LE/CL/LE (CHDL)	0.29	3.45	0.21	0.36	59	All Zones														

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NFRC Thermal Performance Values										
Monument Clad Sliding Window	Argon-Filled	No GIAS	LowE Clear	0.34	2.94	0.29	0.52	50	S/C and S	
			LowE Clear SPF	0.34	2.94	0.29	0.51	50	S/C and S	
			LowE Bronze	0.34	2.94	0.28	0.39	50	S/C and S	
			LowE Gray	0.34	2.94	0.27	0.35	50	S/C and S	
			Climate Control	0.34	2.94	0.27	0.51	50	S/C and S	
			Climate Control SPF	0.34	2.94	0.27	0.50	50	S/C and S	
			Super Sun Blocker	0.34	2.94	0.21	0.40	51	S/C and S	
			Super Sun Blocker SPF	0.34	2.94	0.21	0.39	51	S/C and S	
			Cardinal 366	0.32	3.13	0.21	0.48	56	N/C,S/C, S	
			LowE Clear	0.35	2.86	0.26	0.46	50	S/C and S	
	LowE Clear SPF	0.35	2.86	0.26	0.45	50	S/C and S			
	LowE Bronze	0.35	2.86	0.26	0.34	50	S/C and S			
	LowE Gray	0.35	2.86	0.24	0.31	50	S/C and S			
	Climate Control	0.35	2.86	0.25	0.46	50	S/C and S			
	Climate Control SPF	0.35	2.86	0.24	0.44	50	S/C and S			
	Super Sun Blocker	0.34	2.94	0.19	0.36	50	S/C and S			
	Super Sun Blocker SPF	0.34	2.94	0.19	0.35	50	S/C and S			
	Cardinal 366	0.32	3.13	0.19	0.42	56	N/C,S/C, S			
	LowE Clear	0.35	2.86	0.23	0.41	50	S/C and S			
	LowE Clear SPF	0.35	2.86	0.23	0.40	50	S/C and S			
	LowE Bronze	0.35	2.86	0.23	0.30	50	S/C and S			
	LowE Gray	0.35	2.86	0.22	0.27	50	S/C and S			
	Climate Control	0.35	2.86	0.22	0.40	50	S/C and S			
	Climate Control SPF	0.35	2.86	0.22	0.39	50	S/C and S			
	Super Sun Blocker	0.34	2.94	0.17	0.32	50	S/C and S			
	Super Sun Blocker SPF	0.34	2.94	0.17	0.31	50	S/C and S			
	Cardinal 366	0.32	3.13	0.17	0.37	56	N/C,S/C, S			
	TRIPLE IG NO GIAS			Triple IG LE/CL/CL	0.30	3.33	0.26	0.47	60	All Zones
				Triple IG LE/CL/LE	0.26	3.85	0.23	0.40	60	All Zones
				Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.24	0.43	60	All Zones
				Triple IG LE/CL/LE (CHDL)	0.26	3.85	0.21	0.36	60	All Zones

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Clad Energy Saver Direct Set	Air-Filled	No GIAS	Insul Clear	0.49	2.04	0.69	0.72	40	None
			LowE Clear	0.33	3.03	0.35	0.62	50	None
			LowE Clear SPF	0.33	3.03	0.35	0.61	50	None
			Climate Control	0.34	2.94	0.33	0.61	50	None
			Climate Control SPF	0.34	2.94	0.32	0.59	49	None
			Super Sun Blocker	0.33	3.03	0.25	0.48	50	S/C and S
		Super Sun Blocker SPF	0.33	3.03	0.25	0.47	50	S/C and S	
		366 LowE	0.32	3.13	0.25	0.56	53	N/C,S/C, S	
		w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.63	0.64	40	None
			LowE Clear	0.33	3.03	0.32	0.55	50	None
			LowE Clear SPF	0.33	3.03	0.32	0.54	50	None
			Climate Control	0.34	2.94	0.30	0.54	50	S/C and S
	Climate Control SPF		0.34	2.94	0.29	0.53	49	S/C and S	
	Super Sun Blocker		0.33	3.03	0.23	0.43	50	S/C and S	
	w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.56	0.57	40	None	
		LowE Clear	0.33	3.03	0.29	0.50	50	S/C and S	
		LowE Clear SPF	0.33	3.03	0.28	0.49	50	S/C and S	
		Climate Control	0.34	2.94	0.27	0.49	50	S/C and S	
		Climate Control SPF	0.34	2.94	0.27	0.48	49	S/C and S	
		Super Sun Blocker	0.33	3.03	0.21	0.38	50	S/C and S	
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.32	3.13	0.31	0.56	54	N/C	
		Triple IG LE/CL/LE	0.28	3.57	0.28	0.48	58	N,N/C,S/C	
		Triple IG LE/CL/CL (CHDL)	0.32	3.13	0.28	0.50	54	N/C, S	
		Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.26	0.43	58	All Zones	
	Argon-Filled	No GIAS	LowE Clear	0.29	3.45	0.35	0.62	52	N, N/C
			LowE Clear SPF	0.29	3.45	0.34	0.61	52	N, N/C
			Climate Control	0.30	3.33	0.33	0.61	52	N, N/C
			Climate Control SPF	0.30	3.33	0.32	0.59	52	N, N/C
			Super Sun Blocker	0.29	3.45	0.25	0.48	53	All Zones
			Super Sun Blocker SPF	0.29	3.45	0.24	0.47	53	All Zones
		w/ GIAS & CHDL < 1"	LowE Clear	0.29	3.33	0.32	0.55	52	N, N/C
			LowE Clear SPF	0.29	3.33	0.31	0.54	52	N, N/C
			Climate Control	0.30	3.23	0.30	0.54	52	N, N/C, SC
			Climate Control SPF	0.30	3.33	0.29	0.53	52	N, N/C, SC
			Super Sun Blocker	0.29	3.45	0.23	0.43	52	All Zones
			Super Sun Blocker SPF	0.29	3.45	0.22	0.42	52	All Zones
w/ GIAS & CHDL ≥ 1"	LowE Clear	0.29	3.33	0.29	0.50	52	All Zones		
	LowE Clear SPF	0.29	3.33	0.28	0.49	52	N, N/C, SC		
	Climate Control	0.30	3.23	0.27	0.49	52	All Zones		
	Climate Control SPF	0.30	3.33	0.26	0.48	52	All Zones		
	Super Sun Blocker	0.29	3.45	0.21	0.38	52	All Zones		
	Super Sun Blocker SPF	0.29	3.45	0.20	0.38	52	All Zones		
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.28	3.57	0.30	0.55	58	N, N/C, SC		
	Triple IG LE/CL/LE	0.24	4.17	0.28	0.48	58	N, N/C, SC		
	Triple IG LE/CL/CL (CHDL)	0.28	3.57	0.28	0.50	58	N, N/C, SC		
	Triple IG LE/CL/LE (CHDL)	0.24	4.17	0.26	0.43	58	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-HC55 98x84 Standard DP +55/-70	0.01	8.25	+82.5/-105	180-7359	Annealed Glass ¹
FW-R90 72x54 SGL Glaze Lami DP +90/-110	0.01	13.50	+135/-165	180-7655	Requires FeelSafe Monolithic Lami Glass Type G & Special Install

¹If the unit fits within 10"-98" width and 10"-84" height (width/height may be inverted) the product will be rated at DP55.

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Air-Filled	No GIAS	Insul Clear	0.50	2.00	0.69	0.72	41	None	
		LowE Clear	0.34	2.94	0.35	0.62	48	None	
		LowE Clear SPF	0.34	2.94	0.35	0.61	48	None	
		Climate Control	0.34	2.94	0.33	0.61	48	None	
		Climate Control SPF	0.34	2.94	0.32	0.59	48	None	
		Super Sun Blocker	0.34	2.94	0.25	0.48	48	S/C and S	
		Super Sun Blocker SPF	0.34	2.94	0.25	0.47	48	S/C and S	
		366 LowE	0.32	3.13	0.25	0.56	53	N/C,S/C, S	
		w/ GIAS & CHDL < 1"	Insul Clear	0.50	2.00	0.63	0.64	41	None
			LowE Clear	0.34	2.94	0.32	0.55	48	None
LowE Clear SPF	0.34		2.94	0.32	0.54	48	None		
Climate Control	0.34		2.94	0.30	0.54	48	S/C and S		
Climate Control SPF	0.34		2.94	0.29	0.53	48	S/C and S		
Super Sun Blocker	0.34		2.94	0.23	0.43	48	S/C and S		
Super Sun Blocker SPF	0.34		2.94	0.23	0.42	48	S/C and S		
366 LowE	0.32		3.13	0.23	0.51	53	N/C,S/C, S		
w/ GIAS & CHDL ≥ 1"	Insul Clear		0.50	2.00	0.56	0.57	41	None	
	LowE Clear		0.34	2.94	0.29	0.50	48	S/C and S	
	LowE Clear SPF	0.34	2.94	0.28	0.49	48	S/C and S		
	Climate Control	0.34	2.94	0.27	0.49	48	S/C and S		
	Climate Control SPF	0.34	2.94	0.27	0.48	48	S/C and S		
	Super Sun Blocker	0.34	2.94	0.21	0.38	48	S/C and S		
	Super Sun Blocker SPF	0.34	2.94	0.21	0.38	48	S/C and S		
	366 LowE	0.32	3.13	0.21	0.45	53	N/C,S/C, S		
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.32	3.13	0.31	0.56	54	N/C	
		Triple IG LE/CL/LE	0.28	3.57	0.28	0.48	58	N,N/C,S/C	
Triple IG LE/CL/CL (CHDL)		0.32	3.13	0.28	0.50	54	N/C, SC/		
Triple IG LE/CL/LE (CHDL)		0.28	3.57	0.26	0.43	58	All Zones		
Argon-Filled	No GIAS	LowE Clear	0.30	3.33	0.35	0.62	50	N, N/C	
		LowE Clear SPF	0.30	3.33	0.34	0.61	50	N, N/C	
		Climate Control	0.30	3.33	0.33	0.61	50	N, N/C	
		Climate Control SPF	0.30	3.33	0.32	0.59	50	N, N/C	
		Super Sun Blocker	0.30	3.33	0.25	0.48	50	All Zones	
		Super Sun Blocker SPF	0.30	3.33	0.24	0.47	50	All Zones	
		366 LowE	0.28	3.57	0.25	0.56	57	All Zones	
		w/ GIAS & CHDL < 1"	LowE Clear	0.30	3.33	0.32	0.55	50	N, N/C
			LowE Clear SPF	0.30	3.33	0.31	0.54	50	N, N/C
			Climate Control	0.30	3.33	0.30	0.54	50	N,N/C,S/C
Climate Control SPF	0.30		3.33	0.29	0.53	50	N,N/C,S/C		
Super Sun Blocker	0.30		3.33	0.23	0.43	50	All Zones		
Super Sun Blocker SPF	0.30		3.33	0.22	0.42	50	All Zones		
366 LowE	0.28		3.57	0.22	0.51	57	All Zones		
w/ GIAS & CHDL ≥ 1"	LowE Clear		0.30	3.33	0.29	0.50	50	N,N/C,S/C	
	LowE Clear SPF		0.30	3.33	0.28	0.49	50	N,N/C,S/C	
	Climate Control		0.30	3.33	0.27	0.49	50	All Zones	
	Climate Control SPF	0.30	3.33	0.26	0.48	50	All Zones		
	Super Sun Blocker	0.30	3.33	0.21	0.38	50	All Zones		
	Super Sun Blocker SPF	0.30	3.33	0.20	0.38	50	All Zones		
	366 LowE	0.28	3.57	0.20	0.45	57	All Zones		
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.28	3.57	0.30	0.56	58	N,N/C,S/C	
		Triple IG LE/CL/LE	0.24	4.17	0.28	0.48	58	N,N/C,S/C	
		Triple IG LE/CL/CL (CHDL)	0.28	3.57	0.28	0.50	58	N,N/C,S/C	
Triple IG LE/CL/LE (CHDL)		0.24	4.17	0.25	0.43	58	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-HC55 98x84 Standard DP +55/-70	0.01	8.25	+82.5/-105	180-7359	Annealed Glass ¹
FW-R90 72x54 SGL Glaze Lami DP +90/-110	0.01	13.50	+135/-165	180-7655	Requires FeelSafe Monolithic Lami Glass Type G & Special Install

¹If the unit fits within 10"-98" width and 10"-84" height (width/height may be inverted) the product will be rated at DP55.

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Saver Clad Sliding Patio Door	Air-Filled	No GIAS	Insul Clear	0.48	2.08	0.60	0.62	39	None
			LowE Clear	0.35	2.86	0.30	0.54	48	None
			LowE Clear SPF	0.35	2.86	0.30	0.53	49	None
			Climate Control	0.35	2.86	0.28	0.53	48	None
			Climate Control SPF	0.35	2.86	0.28	0.52	48	None
			Super Sun Blocker	0.35	2.86	0.22	0.41	48	None
			Super Sun Blocker SPF	0.35	2.86	0.22	0.41	49	None
			366 LowE	0.34	2.94	0.22	0.49	54	None
			w/ GIAS & CHDL < 1"	Insul Clear	0.48	2.08	0.52	0.54	39
	LowE Clear	0.35		2.86	0.27	0.47	48	None	
	LowE Clear SPF	0.35		2.86	0.27	0.46	49	None	
	Climate Control	0.35		2.86	0.25	0.46	48	None	
	Climate Control SPF	0.35		2.86	0.25	0.45	48	None	
	Super Sun Blocker	0.35		2.86	0.20	0.36	48	None	
	Super Sun Blocker SPF	0.35		2.86	0.19	0.35	49	None	
	366 LowE	0.34		2.94	0.19	0.43	54	None	
	w/ GIAS & CHDL > 1"	Insul Clear		0.48	2.08	0.46	0.47	39	None
		LowE Clear	0.35	2.86	0.24	0.41	48	None	
		LowE Clear SPF	0.35	2.86	0.23	0.40	49	None	
		Climate Control	0.35	2.86	0.22	0.40	48	None	
		Climate Control SPF	0.35	2.86	0.22	0.39	48	None	
		Super Sun Blocker	0.35	2.86	0.17	0.31	48	None	
		Super Sun Blocker SPF	0.35	2.86	0.17	0.31	49	None	
		366 LowE	0.34	2.94	0.17	0.37	54	None	
		TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.35	2.86	0.26	0.48	53	None
	Triple IG LE/CL/LE		0.31	3.23	0.24	0.41	56	All Zones	
	Triple IG LE/CL/CL (CHDL)		0.35	2.86	0.24	0.42	53	None	
	Triple IG LE/CL/LE (CHDL)		0.31	3.23	0.21	0.36	56	All Zones	
	No GIAS	LowE Clear	0.31	3.23	0.30	0.54	50	All Zones	
		LowE Clear SPF	0.31	3.23	0.30	0.53	51	All Zones	
		Climate Control	0.32	3.13	0.28	0.53	50	All Zones	
		Climate Control SPF	0.32	3.13	0.28	0.52	51	All Zones	
		Super Sun Blocker	0.31	3.23	0.21	0.41	50	All Zones	
		Super Sun Blocker SPF	0.31	3.23	0.21	0.41	51	All Zones	
		366 LowE	0.30	3.33	0.21	0.49	57	All Zones	
		Argon-Filled	w/ GIAS & CHDL < 1"	LowE Clear	0.31	3.23	0.27	0.47	50
LowE Clear SPF				0.31	3.23	0.26	0.46	50	All Zones
Climate Control	0.32			3.13	0.25	0.46	50	All Zones	
Climate Control SPF	0.32			3.13	0.25	0.45	50	All Zones	
Super Sun Blocker	0.31			3.23	0.19	0.36	50	All Zones	
Super Sun Blocker SPF	0.31			3.23	0.19	0.35	50	All Zones	
366 LowE	0.30			3.33	0.19	0.43	57	All Zones	
w/ GIAS & CHDL ≥ 1"	LowE Clear			0.31	3.23	0.23	0.41	50	All Zones
	LowE Clear SPF			0.31	3.23	0.23	0.40	50	All Zones
	Climate Control	0.32	3.13	0.22	0.40	50	All Zones		
	Climate Control SPF	0.32	3.13	0.22	0.39	50	All Zones		
	Super Sun Blocker	0.31	3.23	0.17	0.31	50	All Zones		
	Super Sun Blocker SPF	0.31	3.23	0.17	0.31	50	All Zones		
	366 LowE	0.30	3.33	0.17	0.37	57	All Zones		
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.31	3.23	0.26	0.48	56	All Zones	
		Triple IG LE/CL/LE	0.27	3.70	0.24	0.41	59	All Zones	
Triple IG LE/CL/CL (CHDL)		0.31	3.23	0.23	0.42	56	All Zones		
Triple IG LE/CL/LE (CHDL)		0.27	3.70	0.21	0.36	59	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
SD-C35 (95x96) Standard	0.05	5.25	+35/-50	180-7346	Covers 2-panel doors that fall within this overall unit size.

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NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Energy Saver Clad French & Retro Sliding Patio Door	Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.53	0.52	39	None
			LowE Clear	0.35	2.86	0.27	0.45	48	None
			LowE Clear SPF	0.35	2.86	0.27	0.44	48	None
			Climate Control	0.35	2.86	0.25	0.44	48	None
			Climate Control SPF	0.35	2.86	0.25	0.43	48	None
			Super Sun Blocker	0.35	2.86	0.20	0.35	48	None
			Super Sun Blocker SPF	0.35	2.86	0.19	0.34	48	None
			366 LowE	0.34	2.94	0.19	0.41	48	None
			w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.46	0.45	39
		LowE Clear		0.35	2.86	0.24	0.39	48	None
		LowE Clear SPF		0.35	2.86	0.23	0.38	48	None
		Climate Control		0.35	2.86	0.22	0.38	48	None
		Climate Control SPF		0.35	2.86	0.22	0.37	48	None
		Super Sun Blocker		0.35	2.86	0.17	0.30	48	None
		Super Sun Blocker SPF		0.35	2.86	0.17	0.29	48	None
		366 LowE		0.34	2.94	0.17	0.36	48	None
		w/ GIAS & CHDL ≥ 1"		Insul Clear	0.47	2.13	0.40	0.38	39
			LowE Clear	0.35	2.86	0.21	0.33	48	None
	LowE Clear SPF		0.35	2.86	0.20	0.32	48	None	
	Climate Control		0.35	2.86	0.20	0.33	48	None	
	Climate Control SPF		0.35	2.86	0.19	0.32	48	None	
	Super Sun Blocker		0.35	2.86	0.15	0.26	48	None	
	Super Sun Blocker SPF		0.35	2.86	0.15	0.25	48	None	
	366 LowE		0.30	3.33	0.15	0.30	48	All Zones	
	TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.35	2.86	0.24	0.40	54	None
		Triple IG LE/CL/LE	0.32	3.13	0.21	0.34	57	All Zones	
		Triple IG LE/CL/CL (CHDL)	0.35	2.86	0.21	0.35	54	None	
		Triple IG LE/CL/LE (CHDL)	0.32	3.13	0.19	0.30	57	All Zones	
	Argon-Filled	No GIAS	LowE Clear	0.32	3.13	0.27	0.45	50	All Zones
			LowE Clear SPF	0.32	3.13	0.26	0.44	50	All Zones
			Climate Control	0.32	3.13	0.25	0.44	50	All Zones
			Climate Control SPF	0.32	3.13	0.25	0.43	50	All Zones
			Super Sun Blocker	0.32	3.13	0.19	0.35	50	All Zones
			Super Sun Blocker SPF	0.32	3.13	0.19	0.34	51	All Zones
			366 LowE	0.31	3.23	0.19	0.41	48	All Zones
			w/ GIAS & CHDL < 1"	LowE Clear	0.32	3.13	0.24	0.39	50
LowE Clear SPF				0.32	3.13	0.23	0.38	50	All Zones
Climate Control		0.32		3.13	0.22	0.38	49	All Zones	
Climate Control SPF		0.32		3.13	0.22	0.37	50	All Zones	
Super Sun Blocker		0.32		3.13	0.17	0.30	50	All Zones	
Super Sun Blocker SPF		0.32		3.13	0.17	0.29	50	All Zones	
366 LowE		0.31		3.23	0.17	0.36	48	All Zones	
w/ GIAS & CHDL ≥ 1"		LowE Clear		0.32	3.13	0.21	0.33	50	All Zones
		LowE Clear SPF		0.32	3.13	0.20	0.32	50	All Zones
		Climate Control	0.32	3.13	0.19	0.33	49	All Zones	
		Climate Control SPF	0.32	3.13	0.19	0.32	50	All Zones	
	Super Sun Blocker	0.32	3.13	0.15	0.26	50	All Zones		
	Super Sun Blocker SPF	0.32	3.13	0.15	0.25	50	All Zones		
	366 LowE	0.31	3.23	0.15	0.30	48	All Zones		
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.32	3.13	0.23	0.40	57	All Zones	
		Triple IG LE/CL/LE	0.28	3.57	0.21	0.34	60	All Zones	
Triple IG LE/CL/CL (CHDL)		0.32	3.13	0.21	0.35	57	All Zones		
Triple IG LE/CL/LE (CHDL)		0.28	3.57	0.19	0.30	60	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
SGD-R50 71x96 6-0x8-0	0.14	7.50	+75/-75	06-30945.01	High Water Dam; Reinforced Astragal
SD-R35 95x96 8-0x8-0	0.09	5.25	+52.5/-82.5	180-7245	Standard Product
SD-LC25 188x96 16-0x8-0	0.09	3.75	+45/-45	180-7522	Standard Product
SD-C50 144x96 12-0x8-0	0.14	7.50	+75/-75	180-7507	High Water Dam; Reinforced Astragal

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NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Clad Energy Saver Inswing Patio Door	Air-Filled	No GIAS	Insul Clear	0.46	2.17	0.48	0.47	42	None
			LowE Clear	0.35	2.86	0.25	0.40	53	None
			LowE Clear SPF	0.35	2.86	0.24	0.43	53	None
			Climate Control	0.35	2.86	0.23	0.40	53	None
			Climate Control SPF	0.35	2.86	0.23	0.39	53	None
			Super Sun Blocker	0.35	2.86	0.18	0.31	53	None
		Super Sun Blocker SPF	0.35	2.86	0.18	0.30	53	None	
		366 LowE	0.34	2.94	0.18	0.37	57	None	
		w/ GIAS & CHDL < 1"	Insul Clear	0.46	2.17	0.42	0.40	42	None
			LowE Clear	0.35	2.86	0.22	0.34	53	None
			LowE Clear SPF	0.35	2.86	0.21	0.37	53	None
			Climate Control	0.35	2.86	0.20	0.34	53	None
	Climate Control SPF		0.35	2.86	0.20	0.33	53	None	
	Super Sun Blocker		0.35	2.86	0.16	0.27	53	None	
	w/ GIAS & CHDL ≥ 1"	Insul Clear	0.46	2.17	0.36	0.34	42	None	
		LowE Clear	0.35	2.86	0.19	0.29	53	None	
		LowE Clear SPF	0.35	2.86	0.19	0.31	53	None	
		Climate Control	0.35	2.86	0.18	0.29	53	None	
		Climate Control SPF	0.35	2.86	0.17	0.28	53	None	
		Super Sun Blocker	0.35	2.86	0.14	0.22	53	None	
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.32	3.13	0.22	0.37	57	All Zones	
		Triple IG LE/CL/LE	0.30	3.33	0.20	0.31	60	All Zones	
		Triple IG LE/CL/CL (CHDL)	0.32	3.13	0.19	0.31	57	All Zones	
		Triple IG LE/CL/LE (CHDL)	0.30	3.33	0.17	0.27	60	All Zones	
Argon-Filled	No GIAS	LowE Clear	0.32	3.13	0.25	0.40	56	All Zones	
		LowE Clear SPF	0.32	3.13	0.24	0.39	56	All Zones	
		Climate Control	0.33	3.03	0.23	0.40	56	None	
		Climate Control SPF	0.33	3.03	0.23	0.39	56	None	
		Super Sun Blocker	0.32	3.13	0.18	0.31	56	All Zones	
		Super Sun Blocker SPF	0.32	3.13	0.17	0.30	56	All Zones	
	366 LowE	0.31	3.23	0.17	0.37	59	All Zones		
	w/ GIAS & CHDL < 1"	LowE Clear	0.32	3.13	0.22	0.35	56	All Zones	
		LowE Clear SPF	0.32	3.13	0.21	0.34	56	All Zones	
		Climate Control	0.33	3.03	0.20	0.34	55	None	
		Climate Control SPF	0.33	3.03	0.20	0.33	55	None	
		Super Sun Blocker	0.32	3.13	0.16	0.27	56	All Zones	
Super Sun Blocker SPF		0.32	3.13	0.15	0.26	56	All Zones		
w/ GIAS & CHDL ≥ 1"	366 LowE	0.31	3.23	0.15	0.31	59	All Zones		
	LowE Clear	0.32	3.13	0.19	0.29	56	All Zones		
	LowE Clear SPF	0.32	3.13	0.18	0.28	56	All Zones		
	Climate Control	0.33	3.03	0.18	0.29	55	None		
	Climate Control SPF	0.33	3.03	0.17	0.28	55	None		
	Super Sun Blocker	0.32	3.13	0.14	0.22	56	All Zones		
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.30	3.33	0.22	0.37	60	All Zones		
	Triple IG LE/CL/LE	0.28	3.57	0.20	0.31	60	All Zones		
	Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.19	0.31	60	All Zones		
	Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.17	0.27	60	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
SHD-R35 75"x99" 6 4x8-3 (3-2x8-3) operating	0.04	5.25	+52.5/-52.5	TCT002471P-0031	These products require multi-point locking hardware in order to be rated.
SHED +25/-25 112x99 9-4x8-3 (3-2x8-3) stationary	0.03	3.75	+37.5/-37.5	TCT002511P-0032	
Arched Door 75x96 (6-4x8-0) DP +35/40	0.07	5.25	+52.5/-90.0	180-7370	
Rectangular Door 75x120 (6-4x10-0) DP15	0.08	2.86	22.5	180-7535	
These tests qualify all sizes narrower in width and smaller in height provided they are produced using the same hardware/construction.					

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values

		Glazing Description	U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Clad Energy Saver Outswing Patio Door	Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.48	0.46	42	None
			LowE Clear	0.36	2.78	0.25	0.39	53	None
			LowE Clear SPF	0.36	2.78	0.24	0.36	53	None
		w/ GIAS & CHDL < 1"	Climate Control	0.36	2.78	0.23	0.39	53	None
			Climate Control SPF	0.36	2.78	0.23	0.38	53	None
			Super Sun Blocker	0.36	2.78	0.18	0.30	53	None
			Super Sun Blocker SPF	0.36	2.78	0.18	0.30	53	None
			366 LowE	0.35	2.86	0.18	0.36	56	None
			w/ GIAS & CHDL ≥ 1"	Insul Clear	0.47	2.13	0.41	0.39	42
	LowE Clear	0.36		2.78	0.22	0.34	53	None	
	LowE Clear SPF	0.36		2.78	0.24	0.20	53	None	
	Climate Control	0.36		2.78	0.20	0.33	53	None	
	Climate Control SPF	0.36		2.78	0.20	0.32	53	None	
	Super Sun Blocker	0.36		2.78	0.16	0.26	53	None	
	Super Sun Blocker SPF	0.36		2.78	0.16	0.25	53	None	
	366 LowE	0.35		2.86	0.16	0.31	56	None	
	TRIPLE IG NO GIAS	Insul Clear		0.47	2.13	0.35	0.33	42	None
		LowE Clear	0.36	2.78	0.19	0.28	53	None	
LowE Clear SPF		0.36	2.78	0.18	0.28	53	None		
Climate Control		0.36	2.78	0.18	0.28	53	None		
Climate Control SPF		0.36	2.78	0.17	0.27	53	None		
No GIAS	Super Sun Blocker	0.36	2.78	0.14	0.22	53	None		
	Super Sun Blocker SPF	0.36	2.78	0.14	0.21	53	None		
	366 LowE	0.31	3.23	0.13	0.27	56	All Zones		
	Triple IG LE/CL/CL	0.34	2.94	0.22	0.36	57	None		
	Triple IG LE/CL/LE	0.31	3.23	0.20	0.31	60	All Zones		
Argon-Filled	No GIAS	Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.19	0.31	57	None	
		Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.17	0.26	60	All Zones	
		LowE Clear	0.34	2.94	0.24	0.39	56	None	
		LowE Clear SPF	0.34	2.94	0.24	0.29	56	None	
		Climate Control	0.34	2.94	0.23	0.39	56	None	
		Climate Control SPF	0.34	2.94	0.23	0.38	56	None	
	w/ GIAS & CHDL < 1"	Super Sun Blocker	0.33	3.03	0.18	0.30	56	None	
		Super Sun Blocker SPF	0.33	3.03	0.17	0.30	56	None	
		366 LowE	0.33	3.03	0.17	0.36	56	None	
		LowE Clear	0.34	2.94	0.21	0.34	55	None	
		LowE Clear SPF	0.34	2.94	0.21	0.33	55	None	
		Climate Control	0.34	2.94	0.20	0.33	55	None	
	w/ GIAS & CHDL ≥ 1"	Climate Control SPF	0.34	2.94	0.20	0.32	55	None	
		Super Sun Blocker	0.34	2.94	0.16	0.26	55	None	
		Super Sun Blocker SPF	0.34	2.94	0.15	0.25	55	None	
		366 LowE	0.33	3.03	0.15	0.31	56	None	
		LowE Clear	0.34	2.94	0.19	0.28	55	None	
		LowE Clear SPF	0.34	2.94	0.18	0.28	55	None	
TRIPLE IG NO GIAS	Climate Control	0.34	2.94	0.17	0.28	55	None		
	Climate Control SPF	0.34	2.94	0.17	0.27	55	None		
	Super Sun Blocker	0.34	2.94	0.14	0.22	55	None		
	Super Sun Blocker SPF	0.34	2.94	0.13	0.21	55	None		
	366 LowE	0.33	3.03	0.14	0.26	56	None		
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.31	3.23	0.22	0.36	60	All Zones		
	Triple IG LE/CL/LE	0.28	3.57	0.20	0.31	60	All Zones		
	Triple IG LE/CL/CL (CHDL)	0.31	3.23	0.19	0.31	60	All Zones		
	Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.17	0.26	60	All Zones		

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
SHED +35/-35 113"x96" 9-4x8-3 (3-2x8-3) operating or stationary	0.03	5.25	+52.5/-52.5	TCT00250P-0006	These rated products require multi-point locking hardware.
SHD-R40 76x99 6 4x8-3 (3-2x8-3) operating	0.08	9.00	+75/-60	TCT00248P-0005	
76x120 (6-4x10-0) DP30 76x120	0.05	5.25	+45/-45	180-7534	

The above tests qualify all sizes narrower in width and smaller in height provided they are produced with the same hardware/construction.

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values							
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
No GIAS	Insul Clear	0.49	2.04	0.55	0.58	40	None
	Insul Bronze	0.49	2.04	0.45	0.43	40	None
	Insul Gray	0.49	2.04	0.42	0.39	40	None
	LowE Clear	0.37	2.70	0.28	0.50	48	None
	LowE Bronze	0.37	2.70	0.28	0.37	48	None
	LowE Gray	0.37	2.70	0.26	0.33	48	S
	LowE Clear SPF	0.37	2.70	0.28	0.49	48	None
	Climate Control	0.37	2.70	0.27	0.49	48	S
	Climate Control SPF	0.37	2.70	0.26	0.48	48	S
	Super Sun Blocker	0.37	2.70	0.20	0.39	48	S
	Super Sun Blocker SPF	0.36	2.78	0.20	0.38	48	S
	366 LowE	0.35	2.86	0.20	0.46	59	S/C and S
w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.49	0.52	40	None
	Insul Bronze	0.49	2.04	0.40	0.38	40	None
	Insul Gray	0.49	2.04	0.37	0.34	40	None
	LowE Clear	0.37	2.70	0.25	0.45	48	S
	LowE Bronze	0.37	2.70	0.25	0.33	48	S
	LowE Gray	0.37	2.70	0.23	0.30	48	S
	LowE Clear SPF	0.37	2.70	0.25	0.43	48	S
	Climate Control	0.37	2.70	0.24	0.44	48	S
	Climate Control SPF	0.37	2.70	0.23	0.43	48	S
	Super Sun Blocker	0.37	2.70	0.18	0.34	48	S
	Super Sun Blocker SPF	0.36	2.78	0.18	0.33	48	S
	366 LowE	0.35	2.86	0.18	0.41	59	S/C and S
w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.44	0.45	40	None
	Insul Bronze	0.49	2.04	0.36	0.33	40	None
	Insul Gray	0.49	2.04	0.33	0.30	40	None
	LowE Clear	0.37	2.70	0.23	0.39	48	S
	LowE Bronze	0.37	2.70	0.22	0.29	48	S
	LowE Gray	0.37	2.70	0.21	0.26	48	S
	LowE Clear SPF	0.37	2.70	0.22	0.38	48	S
	Climate Control	0.37	2.70	0.21	0.38	48	S
	Climate Control SPF	0.37	2.70	0.21	0.37	48	S
	Super Sun Blocker	0.37	2.70	0.17	0.30	48	S
	Super Sun Blocker SPF	0.36	2.78	0.16	0.29	48	S
	366 LowE	0.35	2.86	0.16	0.36	59	S/C and S
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.34	2.94	0.25	0.45	58	S/C and S
	Triple IG LE/CL/LE	0.30	3.33	0.23	0.39	60	All Zones
	Triple IG LE/CL/CL (CHDL)	0.34	2.94	0.22	0.40	58	S/C and S
	Triple IG LE/CL/LE (CHDL)	0.30	3.33	0.20	0.34	60	All Zones

For this product's DP Ratings, please see page 37

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Monument Single Hung/Double Hung Argon-Filled	No GIAS	LowE Clear	0.33	3.03	0.28	0.50	51	S/C and S
		LowE Bronze	0.33	3.03	0.27	0.37	51	S/C and S
		LowE Gray	0.33	3.03	0.26	0.33	51	S/C and S
		LowE Clear SPF	0.33	3.03	0.28	0.49	51	S/C and S
		Climate Control	0.34	2.94	0.26	0.49	51	S/C and S
		Climate Control SPF	0.34	2.94	0.26	0.48	51	S/C and S
		Super Sun Blocker	0.33	3.03	0.20	0.39	51	S/C and S
		Super Sun Blocker SPF	0.33	3.03	0.20	0.38	51	S/C and S
		366 LowE	0.32	3.13	0.20	0.46	60	N/C,S/C, S
	w/ GIAS & CHDL < 1"	LowE Clear	0.34	2.94	0.25	0.45	50	S/C and S
		LowE Bronze	0.34	2.94	0.25	0.33	50	S/C and S
		LowE Gray	0.34	2.94	0.23	0.30	50	S/C and S
		LowE Clear SPF	0.34	2.94	0.25	0.43	50	S/C and S
		Climate Control	0.34	2.94	0.24	0.44	50	S/C and S
		Climate Control SPF	0.34	2.94	0.23	0.43	50	S/C and S
		Super Sun Blocker	0.34	2.94	0.18	0.34	50	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.18	0.33	50	S/C and S
		366 LowE	0.32	3.13	0.18	0.41	60	N/C,S/C, S
	w/ GIAS & CHDL ≥ 1"	LowE Clear	0.34	2.94	0.23	0.39	50	S/C and S
		LowE Bronze	0.34	2.94	0.22	0.29	50	S/C and S
		LowE Gray	0.34	2.94	0.21	0.26	50	S/C and S
		LowE Clear SPF	0.34	2.94	0.22	0.38	50	S/C and S
		Climate Control	0.34	2.94	0.21	0.38	50	S/C and S
		Climate Control SPF	0.34	2.94	0.21	0.37	50	S/C and S
		Super Sun Blocker	0.34	2.94	0.16	0.30	50	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.16	0.29	50	S/C and S
		366 LowE	0.32	3.13	0.16	0.36	60	N/C,S/C, S
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.30	3.33	0.25	0.45	58	All Zones
		Triple IG LE/CL/LE	0.27	3.70	0.23	0.39	60	All Zones
		Triple IG LE/CL/CL (CHDL)	0.30	3.33	0.22	0.40	58	All Zones
		Triple IG LE/CL/LE (CHDL)	0.27	3.70	0.20	0.34	60	All Zones

For this product's DP Ratings, please see page 37

NFRC Thermal Performance Values							
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
No GIAS	Insul Clear	0.49	2.04	0.55	0.58	39	None
	Insul Bronze	0.49	2.04	0.45	0.43	39	None
	Insul Gray	0.49	2.04	0.42	0.39	39	None
	LowE Clear	0.37	2.70	0.28	0.50	48	None
	LowE Bronze	0.37	2.70	0.28	0.37	48	None
	LowE Gray	0.37	2.70	0.26	0.33	48	S
	LowE Clear SPF	0.37	2.70	0.28	0.49	48	None
	Climate Control	0.37	2.70	0.27	0.49	47	S
	Climate Control SPF	0.37	2.70	0.26	0.48	47	S
	Super Sun Blocker	0.37	2.70	0.20	0.39	48	S
	Super Sun Blocker SPF	0.37	2.70	0.20	0.38	48	S
	366 LowE	0.37	2.70	0.20	0.46	48	S
w/ GIAS & CHDL < 1"	Insul Clear	0.49	2.04	0.49	0.52	39	None
	Insul Bronze	0.49	2.04	0.40	0.38	39	None
	Insul Gray	0.49	2.04	0.37	0.34	39	None
	LowE Clear	0.37	2.70	0.25	0.45	48	S
	LowE Bronze	0.37	2.70	0.25	0.33	48	S
	LowE Gray	0.37	2.70	0.23	0.30	48	S
	LowE Clear SPF	0.37	2.70	0.25	0.43	48	S
	Climate Control	0.37	2.70	0.24	0.44	47	S
	Climate Control SPF	0.37	2.70	0.23	0.43	47	S
	Super Sun Blocker	0.37	2.70	0.18	0.34	48	S
	Super Sun Blocker SPF	0.37	2.70	0.18	0.33	48	S
	366 LowE	0.37	2.70	0.18	0.41	48	S
w/ GIAS & CHDL ≥ 1"	Insul Clear	0.49	2.04	0.44	0.45	39	None
	Insul Bronze	0.49	2.04	0.36	0.33	39	None
	Insul Gray	0.49	2.04	0.33	0.30	39	None
	LowE Clear	0.37	2.70	0.23	0.39	48	S
	LowE Bronze	0.37	2.70	0.22	0.29	48	S
	LowE Gray	0.37	2.70	0.21	0.26	48	S
	LowE Clear SPF	0.37	2.70	0.22	0.38	48	S
	Climate Control	0.37	2.70	0.21	0.38	47	S
	Climate Control SPF	0.37	2.70	0.21	0.37	47	S
	Super Sun Blocker	0.37	2.70	0.17	0.30	48	S
	Super Sun Blocker SPF	0.37	2.70	0.16	0.29	48	S
	366 LowE	0.37	2.70	0.16	0.36	48	S
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.35	2.86	0.25	0.45	53	S/C and S
	Triple IG LE/CL/LE	0.31	3.23	0.23	0.39	56	N/C,S/C, S
	Triple IG LE/CL/CL (CHDL)	0.35	2.86	0.22	0.40	53	S/C and S
	Triple IG LE/CL/LE (CHDL)	0.31	3.23	0.20	0.34	56	N/C,S/C, S

For this product's DP Ratings, please see page 37

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values

		Glazing Description	U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
Monument Arched Single Hung/Double Hung Argon-Filled	No GIAS	LowE Clear	0.34	2.94	0.28	0.50	50	S/C and S
		LowE Bronze	0.34	2.94	0.27	0.37	50	S/C and S
		LowE Gray	0.34	2.94	0.26	0.33	50	S/C and S
		LowE Clear SPF	0.34	2.94	0.28	0.49	50	S/C and S
		Climate Control	0.34	2.94	0.26	0.49	50	S/C and S
		Climate Control SPF	0.34	2.94	0.26	0.48	50	S/C and S
		Super Sun Blocker	0.34	2.94	0.20	0.39	50	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.20	0.38	50	S/C and S
		366 LowE	0.34	2.94	0.20	0.46	50	S/C and S
	w/ GIAS & CHDL < 1"	LowE Clear	0.35	2.86	0.25	0.45	49	S/C and S
		LowE Bronze	0.35	2.86	0.25	0.33	49	S/C and S
		LowE Gray	0.35	2.86	0.23	0.30	49	S/C and S
		LowE Clear SPF	0.35	2.86	0.25	0.43	49	S/C and S
		Climate Control	0.35	2.86	0.24	0.44	49	S/C and S
		Climate Control SPF	0.35	2.86	0.23	0.43	49	S/C and S
		Super Sun Blocker	0.35	2.86	0.18	0.34	50	S/C and S
		Super Sun Blocker SPF	0.35	2.86	0.18	0.33	50	S/C and S
		366 LowE	0.34	2.94	0.18	0.41	50	S/C and S
	w/ GIAS & CHDL ≥ 1"	LowE Clear	0.35	2.86	0.23	0.39	49	S/C and S
		LowE Bronze	0.35	2.86	0.22	0.29	49	S/C and S
		LowE Gray	0.35	2.86	0.21	0.26	49	S/C and S
		LowE Clear SPF	0.35	2.86	0.22	0.38	49	S/C and S
		Climate Control	0.35	2.86	0.21	0.38	49	S/C and S
		Climate Control SPF	0.35	2.86	0.21	0.37	49	S/C and S
		Super Sun Blocker	0.35	2.86	0.16	0.30	50	S/C and S
		Super Sun Blocker SPF	0.35	2.86	0.16	0.29	50	S/C and S
		366 LowE	0.34	2.94	0.16	0.36	50	S/C and S
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.32	3.13	0.25	0.45	55	N/C,S/C, S
		Triple IG LE/CL/LE	0.28	3.57	0.23	0.39	57	All Zones
		Triple IG LE/CL/CL (CHDL)	0.32	3.13	0.22	0.40	55	N/C,S/C, S
		Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.20	0.34	57	All Zones

For this product's DP Ratings, please see next page

Monument Single Hung/Double-Hung, Arched, and Springline DP Ratings (Air/Water/Structural Performance)

DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
H-LC60 (37x77 Ind. BUS) 32x34 gl Twin	0.18	9.75	+90/-105	TCT003315P-0105	Single and Mulled Units; Requires Alum Nailing Fin
H-LC50 45x97 BUS (40x44 gl) as a Double-Hung Tested	0.07	9.75	+97.5/-105	180-7880	Single Units Only, Vinyl Nailing Fin
H-LC60 32x34 Twin (74.625x76.625 Overall BUS) Tested as a SH	0.14	9.00	+97.5/-97.5	180-7133	Single and Mulled Units, Requires Aluminum Nailing Fin
H-LC55 49.312x96.625 BUS (44x44 gl)	0.10	9.75	+82.5/-82.5	56591.01-602-44	Top Sash Stationary
FW-LC50 66.312x112.625 BUS (61x52 gl.)	0.04	7.52	+75.19/-75.19	58533.01-602-44	Single Units Only, Both Sashes Stationary
H-C40 72"x110" BUS	0.16	6.00	+60/-60	180-7690	Requires Aluminum Nailing Fin & K-Series Balance System
H-LC60 Arched Single Hung (45.375x80.625 BUS)	0.16	9.00	+65/-65	180-7129	Single and Mulled Units, Aluminum Drip Cap, Vinyl Nailing Fin
H-LC50 Springline Single Hung (45.375x80.625 BUS)	0.09	7.50	+65/-65	180-7141	Single and Mulled Units, Aluminum Drip Cap, Vinyl Nailing Fin

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Monument Picture Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.58	0.60	43	None
		Insul Bronze	0.47	2.13	0.47	0.36	43	None
		Insul Gray	0.47	2.13	0.44	0.30	43	None
		LowE Clear	0.34	2.94	0.30	0.52	53	S/C and S
		LowE Bronze	0.34	2.94	0.29	0.31	53	S/C and S
		LowE Gray	0.34	2.94	0.27	0.26	53	S/C and S
		LowE Clear SPF	0.34	2.94	0.29	0.51	53	S/C and S
		Climate Control	0.34	2.94	0.28	0.51	53	S/C and S
		Climate Control SPF	0.34	2.94	0.27	0.50	53	S/C and S
		Super Sun Blocker	0.34	2.94	0.21	0.40	53	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.21	0.39	53	S/C and S
		366 LowE	0.33	3.03	0.21	0.48	60	S/C and S
		w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.52	0.53	43
	Insul Bronze		0.47	2.13	0.42	0.32	43	None
	Insul Gray		0.47	2.13	0.39	0.27	43	None
	LowE Clear		0.34	2.94	0.27	0.46	53	S/C and S
	LowE Bronze		0.34	2.94	0.26	0.27	53	S/C and S
	LowE Gray		0.34	2.94	0.25	0.23	53	S/C and S
	LowE Clear SPF		0.34	2.94	0.26	0.45	53	S/C and S
	Climate Control		0.34	2.94	0.25	0.45	53	S/C and S
	Climate Control SPF		0.34	2.94	0.25	0.44	53	S/C and S
	Super Sun Blocker		0.34	2.94	0.19	0.36	53	S/C and S
	Super Sun Blocker SPF		0.34	2.94	0.19	0.35	53	S/C and S
	366 LowE		0.33	3.03	0.19	0.43	60	S/C and S
	w/ GIAS & CHDL ≥ 1"		Insul Clear	0.47	2.13	0.46	0.47	43
		Insul Bronze	0.47	2.13	0.38	0.28	43	None
		Insul Gray	0.47	2.13	0.35	0.23	43	None
		LowE Clear	0.34	2.94	0.24	0.41	53	S/C and S
		LowE Bronze	0.34	2.94	0.23	0.24	53	S/C and S
		LowE Gray	0.34	2.94	0.22	0.20	53	S/C and S
		LowE Clear SPF	0.34	2.94	0.24	0.40	53	S/C and S
		Climate Control	0.34	2.94	0.22	0.40	53	S/C and S
		Climate Control SPF	0.34	2.94	0.22	0.39	53	S/C and S
		Super Sun Blocker	0.34	2.94	0.17	0.31	53	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.17	0.31	53	S/C and S
		366 LowE	0.33	3.03	0.17	0.38	60	S/C and S
TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.31	3.23	0.26	0.46	60	N/C,S/C, S
	Triple IG LE/CL/LE	0.27	3.70	0.24	0.39	60	All Zones	
	Triple IG LE/CL/CL (CHDL)	0.31	3.23	0.24	0.41	60	N/C,S/C, S	
	Triple IG LE/CL/LE (CHDL)	0.27	3.70	0.21	0.35	60	All Zones	

For this product's DP Ratings, please see next page

NFRC Thermal Performance Values									
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating		
Monument Picture	Argon-Filled	No GIAS	LowE Clear	0.30	3.33	0.29	0.52	56	S/C and S
			LowE Bronze	0.30	3.33	0.29	0.31	56	S/C and S
			LowE Gray	0.30	3.33	0.27	0.26	56	All Zones
			LowE Clear SPF	0.30	3.33	0.29	0.51	56	S/C and S
			Climate Control	0.31	3.23	0.28	0.51	56	S/C and S
			Climate Control SPF	0.31	3.23	0.27	0.50	56	N/C,S/C, S
			Super Sun Blocker	0.30	3.33	0.21	0.40	56	All Zones
			Super Sun Blocker SPF	0.30	3.33	0.21	0.39	56	All Zones
			366 LowE	0.29	3.45	0.21	0.48	60	All Zones
	w/ GIAS & CHDL < 1"	LowE Clear	0.31	3.23	0.26	0.46	55	N/C,S/C, S	
		LowE Bronze	0.31	3.23	0.26	0.27	55	N/C,S/C, S	
		LowE Gray	0.31	3.23	0.24	0.23	55	N/C,S/C, S	
		LowE Clear SPF	0.31	3.23	0.26	0.45	55	N/C,S/C, S	
		Climate Control	0.31	3.23	0.25	0.45	55	N/C,S/C, S	
		Climate Control SPF	0.31	3.23	0.24	0.44	55	N/C,S/C, S	
		Super Sun Blocker	0.31	3.23	0.19	0.36	56	N/C,S/C, S	
		Super Sun Blocker SPF	0.31	3.23	0.19	0.35	55	N/C,S/C, S	
		366 LowE	0.29	3.45	0.19	0.43	60	All Zones	
	w/ GIAS & CHDL ≥ 1"	LowE Clear	0.31	3.23	0.24	0.41	55	N/C,S/C, S	
		LowE Bronze	0.31	3.23	0.23	0.24	55	N/C,S/C, S	
		LowE Gray	0.31	3.23	0.22	0.20	55	N/C,S/C, S	
		LowE Clear SPF	0.31	3.23	0.23	0.40	55	N/C,S/C, S	
		Climate Control	0.31	3.23	0.22	0.40	55	N/C,S/C, S	
		Climate Control SPF	0.31	3.23	0.22	0.39	55	N/C,S/C, S	
		Super Sun Blocker	0.31	3.23	0.17	0.31	56	N/C,S/C, S	
		Super Sun Blocker SPF	0.31	3.23	0.17	0.31	55	N/C,S/C, S	
		366 LowE	0.29	3.45	0.17	0.38	60	All Zones	
	TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.28	3.57	0.26	0.46	60	All Zones	
		Triple IG LE/CL/LE	0.23	4.35	0.24	0.46	60	All Zones	
		Triple IG LE/CL/CL (CHDL)	0.28	3.57	0.23	0.41	60	All Zones	
		Triple IG LE/CL/LE (CHDL)	0.23	4.35	0.21	0.41	60	All Zones	

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-C55 (61x84)	0.01	9.75	+82.5/-82.5	180-7833	None

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Monument Arched Picture Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.58	0.60	42	None
		Insul Bronze	0.47	2.13	0.47	0.36	42	None
		Insul Gray	0.47	2.13	0.44	0.30	42	None
		LowE Clear	0.34	2.94	0.30	0.52	52	S/C and S
		LowE Bronze	0.34	2.94	0.29	0.31	52	S/C and S
		LowE Gray	0.34	2.94	0.27	0.26	52	S/C and S
		LowE Clear SPF	0.34	2.94	0.29	0.51	52	S/C and S
		Climate Control	0.34	2.94	0.28	0.51	52	S/C and S
		Climate Control SPF	0.34	2.94	0.27	0.50	52	S/C and S
		Super Sun Blocker	0.34	2.94	0.21	0.40	52	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.21	0.39	52	S/C and S
		366 LowE	0.34	2.94	0.21	0.48	52	S/C and S
		w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.52	0.53	42
	Insul Bronze		0.47	2.13	0.42	0.32	42	None
	Insul Gray		0.47	2.13	0.39	0.27	42	None
	LowE Clear		0.34	2.94	0.27	0.46	52	S/C and S
	LowE Bronze		0.34	2.94	0.26	0.27	52	S/C and S
	LowE Gray		0.34	2.94	0.24	0.23	52	S/C and S
	LowE Clear SPF		0.34	2.94	0.26	0.45	52	S/C and S
	Climate Control		0.34	2.94	0.25	0.45	52	S/C and S
	Climate Control SPF		0.34	2.94	0.25	0.44	52	S/C and S
	Super Sun Blocker		0.34	2.94	0.19	0.36	52	S/C and S
	Super Sun Blocker SPF		0.34	2.94	0.19	0.35	52	S/C and S
	366 LowE		0.34	2.94	0.19	0.43	52	S/C and S
	w/ GIAS & CHDL ≥ 1"		Insul Clear	0.47	2.13	0.46	0.47	42
		Insul Bronze	0.47	2.13	0.38	0.28	42	None
		Insul Gray	0.47	2.13	0.35	0.23	42	None
		LowE Clear	0.34	2.94	0.24	0.41	52	S/C and S
		LowE Bronze	0.34	2.94	0.23	0.24	52	S/C and S
		LowE Gray	0.34	2.94	0.22	0.20	52	S/C and S
		LowE Clear SPF	0.34	2.94	0.24	0.40	52	S/C and S
		Climate Control	0.34	2.94	0.22	0.40	52	S/C and S
		Climate Control SPF	0.34	2.94	0.22	0.39	52	S/C and S
		Super Sun Blocker	0.34	2.94	0.17	0.31	52	S/C and S
		Super Sun Blocker SPF	0.34	2.94	0.17	0.31	52	S/C and S
		366 LowE	0.34	2.94	0.17	0.38	52	S/C and S
TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.32	3.13	0.26	0.46	57	N/C,S/C, S
	Triple IG LE/CL/LE	0.28	3.57	0.24	0.39	57	All Zones	
	Triple IG LE/CL/CL (CHDL)	0.32	3.13	0.24	0.41	57	N/C,S/C, S	
	Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.21	0.35	57	All Zones	

For this product's DP Ratings, please see Kingsview Picture ratings (arched unit has same ratings provided the unit fits within the block size of the rectangular picture unit)

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Monument Arched Picture	No GIAS	LowE Clear	0.31	3.23	0.29	0.52	55	S/C and S
		LowE Bronze	0.31	3.23	0.29	0.31	55	S/C and S
		LowE Gray	0.31	3.23	0.27	0.26	55	N/C,S/C, S
		LowE Clear SPF	0.31	3.23	0.29	0.51	55	S/C and S
		Climate Control	0.31	3.23	0.28	0.51	55	S/C and S
		Climate Control SPF	0.31	3.23	0.27	0.50	55	N/C,S/C, S
		Super Sun Blocker	0.31	3.23	0.21	0.40	56	N/C,S/C, S
		Super Sun Blocker SPF	0.30	3.33	0.21	0.39	55	All Zones
		366 LowE	0.30	3.33	0.21	0.47	56	All Zones
		w/ GIAS & CHDL < 1"	LowE Clear	0.31	3.23	0.26	0.46	55
	LowE Bronze		0.31	3.23	0.26	0.27	55	N/C,S/C, S
	LowE Gray		0.31	3.23	0.24	0.23	55	N/C,S/C, S
	LowE Clear SPF		0.31	3.23	0.26	0.45	55	N/C,S/C, S
	Climate Control		0.32	3.13	0.25	0.45	55	N/C,S/C, S
	Climate Control SPF		0.32	3.13	0.24	0.44	55	N/C,S/C, S
	Super Sun Blocker		0.31	3.23	0.19	0.36	56	N/C,S/C, S
	Super Sun Blocker SPF		0.30	3.33	0.19	0.35	54	All Zones
	366 LowE		0.30	3.33	0.19	0.42	56	All Zones
	w/ GIAS & CHDL ≥ 1"		LowE Clear	0.31	3.23	0.24	0.41	55
		LowE Bronze	0.31	3.23	0.23	0.24	55	N/C,S/C, S
		LowE Gray	0.31	3.23	0.22	0.20	55	N/C,S/C, S
		LowE Clear SPF	0.31	3.23	0.23	0.40	55	N/C,S/C, S
		Climate Control	0.32	3.13	0.22	0.40	55	N/C,S/C, S
		Climate Control SPF	0.32	3.13	0.22	0.39	55	N/C,S/C, S
		Super Sun Blocker	0.31	3.23	0.17	0.31	56	N/C,S/C, S
		Super Sun Blocker SPF	0.30	3.33	0.17	0.31	55	All Zones
		366 LowE	0.30	3.33	0.17	0.37	56	All Zones
		TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.29	3.45	0.26	0.46	57
	Triple IG LE/CL/LE		0.25	4.00	0.24	0.39	57	All Zones
	Triple IG LE/CL/CL (CHDL)		0.29	3.45	0.23	0.41	57	All Zones
	Triple IG LE/CL/LE (CHDL)		0.25	4.00	0.21	0.35	57	All Zones

For this product's DP Ratings, please see Kingsview Picture ratings (arched unit has same ratings provided the unit fits within the block size of the rectangular picture unit)

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Monument Transom Air-Filled	No GIAS	Insul Clear	0.47	2.13	0.60	0.63	42	None
		Insul Bronze	0.47	2.13	0.49	0.47	42	None
		Insul Gray	0.47	2.13	0.45	0.42	42	None
		LowE Clear	0.33	3.03	0.31	0.55	53	None
		LowE Clear SPF	0.33	3.03	0.30	0.53	52	S/C and S
		LowE Bronze	0.33	3.03	0.30	0.40	53	S/C and S
		LowE Gray	0.33	3.03	0.28	0.36	53	S/C and S
		Climate Control	0.33	3.03	0.29	0.54	52	S/C and S
		Climate Control SPF	0.33	3.03	0.28	0.52	52	S/C and S
		Super Sun Blocker	0.33	3.03	0.22	0.42	53	S/C and S
		Super Sun Blocker SPF	0.33	3.03	0.22	0.41	53	S/C and S
		366 LowE	0.32	3.13	0.22	0.50	55	N/C,S/C, S
		w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.54	0.57	42
	Insul Bronze		0.47	2.13	0.44	0.42	42	None
	Insul Gray		0.47	2.13	0.41	0.38	42	None
	LowE Clear		0.33	3.03	0.28	0.49	53	S/C and S
	LowE Clear SPF		0.33	3.03	0.27	0.48	52	S/C and S
	LowE Bronze		0.33	3.03	0.27	0.36	53	S/C and S
	LowE Gray		0.33	3.03	0.25	0.33	53	S/C and S
	Climate Control		0.33	3.03	0.26	0.48	52	S/C and S
	Climate Control SPF		0.33	3.03	0.26	0.47	52	S/C and S
	Super Sun Blocker		0.33	3.03	0.20	0.38	53	S/C and S
	Super Sun Blocker SPF		0.33	3.03	0.20	0.37	53	S/C and S
	366 LowE		0.32	3.13	0.20	0.45	55	N/C,S/C, S
	w/ GIAS & CHDL ≥ 1"		Insul Clear	0.47	2.13	0.48	0.50	42
		Insul Bronze	0.47	2.13	0.39	0.37	42	None
		Insul Gray	0.47	2.13	0.36	0.33	42	None
		LowE Clear	0.33	3.03	0.25	0.43	53	S/C and S
		LowE Clear SPF	0.33	3.03	0.25	0.42	52	S/C and S
		LowE Bronze	0.33	3.03	0.24	0.32	53	S/C and S
		LowE Gray	0.33	3.03	0.23	0.29	53	S/C and S
		Climate Control	0.33	3.03	0.23	0.42	52	S/C and S
		Climate Control SPF	0.33	3.03	0.23	0.41	52	S/C and S
		Super Sun Blocker	0.33	3.03	0.18	0.33	53	S/C and S
		Super Sun Blocker SPF	0.33	3.03	0.18	0.32	53	S/C and S
		366 LowE	0.32	3.13	0.18	0.39	55	N/C,S/C, S
TRIPLE IG NO GIAS		Triple IG LE/CL/CL	0.31	3.23	0.27	0.49	60	N/C,S/C, S
	Triple IG LE/CL/LE	0.26	3.85	0.25	0.42	64	All Zones	
	Triple IG LE/CL/CL (CHDL)	0.31	3.23	0.24	0.44	60	N/C,S/C, S	
	Triple IG LE/CL/LE (CHDL)	0.26	3.85	0.22	0.38	64	All Zones	

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-R65 80x48	0.01	9.75	+97.5/-112.5	180-7855	None

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Monument Transom Argon-Filled	No GIAS	LowE Clear	0.30	3.33	0.30	0.55	56	S/C and S
		LowE Clear SPF	0.30	3.33	0.30	0.53	55	S/C and S
		LowE Bronze	0.30	3.33	0.30	0.40	56	S/C and S
		LowE Gray	0.30	3.33	0.28	0.36	56	S/C and S
		Climate Control	0.30	3.33	0.28	0.54	55	S/C and S
		Climate Control SPF	0.30	3.33	0.28	0.52	55	S/C and S
		Super Sun Blocker	0.30	3.33	0.22	0.42	56	All Zones
		Super Sun Blocker SPF	0.30	3.33	0.21	0.41	56	All Zones
		366 LowE	0.29	3.45	0.22	0.50	59	All Zones
		w/ GIAS & CHDL < 1"	LowE Clear	0.31	3.23	0.27	0.49	55
	LowE Clear SPF		0.31	3.23	0.27	0.48	55	N/C,S/C, S
	LowE Bronze		0.31	3.23	0.27	0.36	55	N/C,S/C, S
	LowE Gray		0.31	3.23	0.25	0.33	55	N/C,S/C, S
	Climate Control		0.31	3.23	0.26	0.48	55	N/C,S/C, S
	Climate Control SPF		0.31	3.23	0.25	0.47	55	N/C,S/C, S
	Super Sun Blocker		0.31	3.23	0.20	0.38	55	N/C,S/C, S
	Super Sun Blocker SPF		0.31	3.23	0.20	0.37	55	N/C,S/C, S
	366 LowE		0.30	3.33	0.26	0.48	58	All Zones
	w/ GIAS & CHDL ≥ 1"		LowE Clear	0.31	3.23	0.25	0.43	55
		LowE Clear SPF	0.31	3.23	0.24	0.42	55	N/C,S/C, S
		LowE Bronze	0.31	3.23	0.24	0.32	55	N/C,S/C, S
		LowE Gray	0.31	3.23	0.23	0.29	55	N/C,S/C, S
		Climate Control	0.31	3.23	0.23	0.42	55	N/C,S/C, S
		Climate Control SPF	0.31	3.23	0.23	0.41	55	N/C,S/C, S
		Super Sun Blocker	0.31	3.23	0.18	0.33	55	N/C,S/C, S
		Super Sun Blocker SPF	0.31	3.23	0.18	0.32	55	N/C,S/C, S
		366 LowE	0.30	3.33	0.23	0.43	58	All Zones
		TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.27	3.70	0.27	0.49	63
	Triple IG LE/CL/LE		0.23	4.35	0.25	0.42	67	All Zones
	Triple IG LE/CL/CL (CHDL)		0.27	3.70	0.24	0.44	63	All Zones
	Triple IG LE/CL/LE (CHDL)		0.23	4.35	0.22	0.38	67	All Zones

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-R65 80x48	0.01	9.75	+97.5/-112.5	180-7855	None

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NFRC Thermal Performance Values							
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating
No GIAS	Insul Clear	0.47	2.13	0.60	0.63	41	None
	Insul Bronze	0.47	2.13	0.49	0.47	41	None
	Insul Gray	0.47	2.13	0.45	0.42	41	None
	LowE Clear	0.34	2.94	0.31	0.55	52	None
	LowE Clear SPF	0.34	2.94	0.30	0.53	52	S/C and S
	LowE Bronze	0.34	2.94	0.30	0.40	52	S/C and S
	LowE Gray	0.34	2.94	0.28	0.36	52	S/C and S
	Climate Control	0.34	2.94	0.29	0.54	52	S/C and S
	Climate Control SPF	0.34	2.94	0.28	0.52	51	S/C and S
	Super Sun Blocker	0.34	2.94	0.22	0.42	52	S/C and S
	Super Sun Blocker SPF	0.34	2.94	0.22	0.41	52	S/C and S
	366 LowE	0.33	3.03	0.22	0.50	52	S/C and S
w/ GIAS & CHDL < 1"	Insul Clear	0.47	2.13	0.54	0.57	41	None
	Insul Bronze	0.47	2.13	0.44	0.42	41	None
	Insul Gray	0.47	2.13	0.41	0.38	41	None
	LowE Clear	0.34	2.94	0.28	0.49	52	S/C and S
	LowE Clear SPF	0.34	2.94	0.27	0.48	52	S/C and S
	LowE Bronze	0.34	2.94	0.27	0.36	52	S/C and S
	LowE Gray	0.34	2.94	0.25	0.33	52	S/C and S
	Climate Control	0.34	2.94	0.26	0.48	52	S/C and S
	Climate Control SPF	0.34	2.94	0.26	0.47	51	S/C and S
	Super Sun Blocker	0.34	2.94	0.20	0.38	52	S/C and S
	Super Sun Blocker SPF	0.34	2.94	0.20	0.37	52	S/C and S
	366 LowE	0.33	3.03	0.20	0.45	52	S/C and S
w/ GIAS & CHDL ≥ 1"	Insul Clear	0.47	2.13	0.48	0.50	41	None
	Insul Bronze	0.47	2.13	0.39	0.37	41	None
	Insul Gray	0.47	2.13	0.36	0.33	41	None
	LowE Clear	0.34	2.94	0.25	0.43	52	S/C and S
	LowE Clear SPF	0.34	2.94	0.25	0.42	52	S/C and S
	LowE Bronze	0.34	2.94	0.24	0.32	52	S/C and S
	LowE Gray	0.34	2.94	0.23	0.29	52	S/C and S
	Climate Control	0.34	2.94	0.23	0.42	52	S/C and S
	Climate Control SPF	0.34	2.94	0.23	0.41	51	S/C and S
	Super Sun Blocker	0.34	2.94	0.18	0.33	52	S/C and S
	Super Sun Blocker SPF	0.34	2.94	0.18	0.32	52	S/C and S
	366 LowE	0.33	3.03	0.18	0.39	52	S/C and S
TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.32	3.13	0.27	0.49	56	N/C,S/C, S
	Triple IG LE/CL/LE	0.28	3.57	0.25	0.42	60	All Zones
	Triple IG LE/CL/CL (CHDL)	0.32	3.13	0.24	0.44	56	N/C,S/C, S
	Triple IG LE/CL/LE (CHDL)	0.28	3.57	0.22	0.38	60	All Zones

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-R65 80x48	0.01	9.75	+97.5/-112.5	180-7855	None

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Monument Arched Transom

Air-Filled

NFRC Thermal Performance Values								
Glazing Description		U-Factor	R-Value	SHGC	VT	CR	Energy Star Rating	
Monument Arched Transom	No GIAS	LowE Clear	0.30	3.33	0.30	0.55	55	S/C and S
		LowE Clear SPF	0.30	3.33	0.30	0.53	55	S/C and S
		LowE Bronze	0.30	3.33	0.30	0.40	55	S/C and S
		LowE Gray	0.30	3.33	0.28	0.36	55	S/C and S
		Climate Control	0.30	3.33	0.28	0.54	54	S/C and S
		Climate Control SPF	0.30	3.33	0.28	0.52	54	S/C and S
		Super Sun Blocker	0.30	3.33	0.22	0.42	55	All Zones
		Super Sun Blocker SPF	0.30	3.33	0.21	0.41	55	All Zones
		366 LowE	0.30	3.33	0.22	0.50	55	All Zones
		w/ GIAS & CHDL < 1"	LowE Clear	0.31	3.23	0.27	0.49	54
	LowE Clear SPF		0.31	3.23	0.27	0.48	54	N/C,S/C, S
	LowE Bronze		0.31	3.23	0.27	0.36	54	N/C,S/C, S
	LowE Gray		0.31	3.23	0.25	0.33	54	N/C,S/C, S
	Climate Control		0.31	3.23	0.26	0.48	54	N/C,S/C, S
	Climate Control SPF		0.31	3.23	0.25	0.47	54	N/C,S/C, S
	Super Sun Blocker		0.31	3.23	0.20	0.38	54	N/C,S/C, S
	Super Sun Blocker SPF		0.31	3.23	0.20	0.37	54	N/C,S/C, S
	366 LowE		0.31	3.23	0.26	0.48	54	N/C,S/C, S
	w/ GIAS & CHDL ≥ 1"		LowE Clear	0.31	3.23	0.25	0.43	54
		LowE Clear SPF	0.31	3.23	0.24	0.42	54	N/C,S/C, S
		LowE Bronze	0.31	3.23	0.24	0.32	54	N/C,S/C, S
		LowE Gray	0.31	3.23	0.23	0.29	54	N/C,S/C, S
		Climate Control	0.31	3.23	0.23	0.42	54	N/C,S/C, S
		Climate Control SPF	0.31	3.23	0.23	0.41	54	N/C,S/C, S
		Super Sun Blocker	0.31	3.23	0.18	0.33	54	N/C,S/C, S
		Super Sun Blocker SPF	0.31	3.23	0.18	0.32	54	N/C,S/C, S
		366 LowE	0.31	3.23	0.23	0.43	54	N/C,S/C, S
		TRIPLE IG NO GIAS	Triple IG LE/CL/CL	0.28	3.57	0.27	0.49	59
	Triple IG LE/CL/LE		0.24	4.17	0.25	0.42	63	All Zones
	Triple IG LE/CL/CL (CHDL)		0.28	3.57	0.24	0.44	59	All Zones
	Triple IG LE/CL/LE (CHDL)		0.24	4.17	0.22	0.38	63	All Zones

DP Ratings (Air/Water/Structural Performance)					
DP Rating (Max. Size Tested)	Air Infiltration (CFM)	Water Resistance (PSF)	Structural Test Pressure (PSF)	Test Report #	Notes
FW-R65 80x48	0.01	9.75	+97.5/-112.5	180-7855	None

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

Center Of Glass Data

Glass Type	Ext. Lite Color & Coating/ Int. Lite Coating & Color	U-Factor / h-ft ² -F Btu	SC	SHGC	Rel. Ht Gain Btu / h-ft ² -F	% Visible Light Trans	Tuv	Tdw-K
Insul	Clear/Clear	0.48	0.89	0.78	186	0.82	0.58	0.61
Hurd Low-E (Air)	Clear LE/Clear	0.29	0.45	0.39	94	0.71	0.24	0.37
Hurd Low-E SPF (Air)	Clear LE/Clear SPF	0.29	0.44	0.39	93	0.69	0.001	0.20
Hurd Climate Control (Air)	Clear LE/Clear	0.29	0.42	0.37	88	0.70	0.29	0.40
Hurd Climate Control SPF (Air)	Clear LE/Clear SPF	0.29	0.41	0.36	57	0.68	0.002	0.19
Hurd Super Sun Blocker (Air)	Clear LE/Clear	0.29	0.32	0.28	68	0.55	0.18	0.26
Hurd Super Sun Blocker SPF (Air)	Clear LE/Clear SPF	0.29	0.32	0.28	68	0.53	0.001	0.13
Hurd Low-E (Gas)	Clear LE/Clear	0.24	0.45	0.39	92	0.71	0.24	0.37
Hurd Low-E SPF (Gas)	Clear LE/Clear SPF	0.25	0.44	0.38	91	0.69	0.001	0.20
Hurd Climate Control (Gas)	Clear LE/Clear	0.25	0.42	0.36	87	0.70	0.29	0.40
Hurd Climate Control SPF (Gas)	Clear LE/Clear SPF	0.25	0.41	0.36	85	0.68	0.002	0.19
Hurd Super Sun Blocker (Gas)	Clear LE/Clear	0.24	0.32	0.27	66	0.55	0.18	0.26
Hurd Super Sun Blocker SPF (Gas)	Clear LE/Clear SPF	0.24	0.31	0.27	65	0.53	0.001	0.13
Hurd Solar Ban 70 Low-E (Gas)	Clear LE/Clear	0.24	0.43	0.24	89	0.64	0.06	0.22
Hurd 366 Low-E (Air)	Clear LE/Clear	0.29	0.32	0.28	67	0.65	0.05	0.21
Hurd 366 Low-E (Gas)	Clear LE/Clear	0.24	0.31	0.27	66	0.65	0.05	0.21
Insul Bronze	Bronze/Clear	0.48	0.73	0.63	152	0.62	0.32	0.38
Hurd Low-E/Bronze (Air)	Bronze/LE Clear	0.29	0.44	0.38	93	0.53	0.14	0.25
Hurd Low-E/Bronze (Gas)	Bronze/LE Clear	0.24	0.44	0.38	91	0.53	0.14	0.25
Insul Gray	Gray/Clear	0.48	0.69	0.6	146	0.56	0.33	0.39
Hurd Low-E/Gray (Air)	Gray/LE Clear	0.29	0.42	0.37	88	0.48	0.15	0.26
Hurd Low-E/Gray (Gas)	Gray/LE Clear	0.24	0.42	0.36	87	0.48	0.15	0.26
Hurd Triple IG LE/CL/CL (Air)	Clear LE/Clear/Clear	0.27	0.40	0.34	83	0.64	0.12	0.28
Hurd Triple IG LE/CL/LE (Air)	Clear LE/Clear/Clear LE	0.22	0.36	0.31	75	0.55	0.04	0.19
Hurd Triple IG LE/CL/CL (Gas)	Clear LE/Clear/Clear	0.21	0.39	0.34	82	0.64	0.12	0.28
Hurd Triple IG LE/CL/LE (Gas)	Clear LE/Clear/Clear LE	0.16	0.36	0.31	74	0.55	0.04	0.19

Performance ratings are based on individual units only. Hurd is constantly working to refine and improve our products. For this reason specifications may change without notice.

Energy Terminology:

U-VALUE -- The heat flow rate through a given construction expressed in Btu/hr/ft²/F. Values are normally given for NFRC/ASHRAE winter conditions of 0 degrees outdoor temperature, 70 degrees indoor temperature, 15 mph wind and no solar load. U-values can be expressed in terms of the glass alone (U_{cog}) or for the entire window (U_{window}) which includes the effect of the frame and the spacer material.

SHADING COEFFICIENT (SC) -- The ratio of solar heat gain through a glazing to the solar heat gain through a single lite of 1/8" (3.0mm) glass. Dimensionless and varying between 0 and 1, the smaller the number, the better the glazing is at preventing solar gain. The shading coefficient is specific to normal incidence angle and is being phased out in favor of the solar heat gain coefficient value.

SOLAR HEAT GAIN COEFFICIENT (SHGC) -- The fraction of incident solar radiation which enters a building as heat. It is based on the sum of the solar energy transmittance + the inwardly flowing fraction of absorbed solar energy on all lites of the glazing. Note that the smaller the number, the better the glazing is at preventing solar heat gain. This value is preferred over the shading coefficient since it can be used for solar incidence angles other than normal to the glass surface. It can be expressed in terms of the glass alone (SHGC_{cog}) or total unit value (SHGC_{window}).

RELATIVE-HEAT GAIN (RHG) -- The total amount of heat gain through a glazing system at NFRC/ASHRAE specified summer conditions, incorporating the U-value and the Solar Heat Gain Coefficient. The conditions are 230 Btu/hr/ft², outdoor temperature of 89 degrees F, indoor temperature of 75 degrees F, and 7.5 mph wind. This value is expressed in terms of Btu/hr/ft²

VISIBLE LIGHT TRANSMITTANCE -- In the visible spectrum (380 to 720 nanometers), the percentage of light that is transmitted through the glazing relative to the C.I.E. [Commission International de l'Eclairage (International Commission on Illumination)] standard observer.

UV TRANSMISSIONS (T_{uv}) -- The percentage of ultra violet rays that enter a room through the glazing system. It is a predictor of potential fading damage. Lower percentages indicate less fading potential. (UV rays are those with a wavelength ranging from 0.30 to 0.38 nanometers).

LBL DAMAGE FUNCTION (T_{dw-K}) -- This function is another way of expressing UV Transmission. It is a better predictor of potential fading damage than UV Transmission. Lower values indicate less fading potential. The LBL Damage Function is a weighted value which takes into account that as the wavelength of the UV rays get shorter, the fading damage potential increases. Therefore, two glazing systems with the same UV transmission may have different LBL Damage Function values because one allows more "shorter" wavelength rays to pass through than the other.

Design Pressure Table

DP Rating	Structural Performance		Water Performance	
	Static Load PSF	Wind Velocity MPH	Static Load PSF	Wind Velocity MPH
15	22.50	94.90	2.86	33.80
20	30.00	109.50	3.00	34.60
25	37.50	122.50	3.75	38.70
30	45.00	134.20	4.50	42.40
35	52.50	144.90	5.25	45.80
40	60.00	154.90	6.00	48.90
45	67.50	164.30	6.75	52.00
50	75.00	173.20	7.50	54.80
55	82.50	181.70	8.25	57.40
60	90.00	189.70	9.00	60.00
65	97.50	197.50	9.75	62.40
70	105.00	204.90	10.50	64.80
75	112.50	212.10	11.25	67.10
80	120.00	219.10	12.00	69.30

Please note that this chart merely reflects the simulated wind speed that a test unit is exposed to during each respective test category. The wind speeds listed in this chart do not reflect the wind zone that a DP-rated product meets as required by the International Building Code or Florida Building Code.

AAMA / WDMA / CSA 101 / IS2 / A440-05 Ratings Terminology

1. Product Designations

Window and door products are designated by a four part code which includes product type, performance class, performance grade and maximum size tested. The format for product designation is:

Typical Designation Example: HS - LC 25 48x76

2. Product Type	HS
3. Performance Class	LC
4. Performance Grade	25
5. Maximum Size Tested Width x Height	48x76 (inches)

2. Product Type

Window and door product types are as follows:

AP Awning	SHD Side-Hinged Door
C Casement	HS Horizontal Sliding Window
FD Fixed Door	SD Sliding Door
FW Fixed Window	VS Vertical Sliding Window
H Hung - Single / Double	

3. Performance Class

Window and door products are divided into 5 performance classes as follows:

R Residential	Minimum of 15 psf (720 Pa) required
LC Light Commercial	Minimum of 25 psf (1200 Pa) required
C Commercial	Minimum of 30 psf (1440 Pa) required
HC Heavy Commercial	Minimum of 40 psf (1920 Pa) required
AW Architectural	Minimum of 40 psf (1920 Pa) required; plus life cycling testing

Note: In addition, products may be tested to optional performance grades higher than the minimum grade in increments of 5 psf (240 Pa)

4. Performance Grade

Products are designated by the design pressure for which they have been tested in pounds per square foot. The structural test pressure for all products is 1.5 times the design pressure. Each product performance class shall have a minimum performance grade as noted in the following table:

PERFORMANCE GRADES

Performance Grade	Applicable Product Designation(s)	Design Pressure		Structural Test Pressure	Water Resistance Test Pressure				
		R,LC,C and HC							
		lb/ft ²	(Pa)	lb/ft ²	(Pa)	lb/ft ²	(Pa)	lb/ft ²	(Pa)
15	R	15	720	22.5	1080		2.86		140
20	R	20	960	30.0	1440		3.00		150
25	R	25	1200	37.5	1800		3.75		180
30	R,LC	30	1440	45.0	2160		4.50		220
35	R,LC,C	35	1680	52.5	2520		5.25		260
40	R,LC,C	40	1920	60.0	2880		6.00		290
45	R,LC,C,HC,AW	45	2160	67.5	3240		6.75		330
50	R,LC,C,HC,AW	50	2400	75.0	3600		7.50		360
55	R,LC,C,HC,AW	55	2640	82.5	3960		8.25		400
60	R,LC,C,HC,AW	60	2880	90.0	4320		9.00		440
65	R,LC,C,HC,AW	65	3120	97.5	4680		9.75		470
70	R,LC,C,HC,AW	70	3360	105.0	5040		10.50		510
75	R,LC,C,HC,AW	75	3600	112.5	5400		11.25		540
80	R,LC,C,HC,AW	80	3830	120.0	5750		12.00		580
85	R,LC,C,HC,AW	85	4080	127.5	6110		12.00		580
90	R,LC,C,HC,AW	90	4320	135.0	6470		12.00		580




CONFORMANCE: Hurd windows and patio doors conform to ANSI/AAMA/WDMA101/I.S. 2-97 or AAMA/WDMA/CSA 101/I.S.2/A440-08. Hurd windows and patio doors are water repellent preservative treated in accordance with the industry standard I/S. 4-00.

All performance level calculations done using sealed insulating glass with two panes unless noted as "triples".

Hurd's performance ratings are derived from third-party independent laboratory test results. The unit testing results reflected in this performance guide are achieved under laboratory conditions. The results from these tests may or may not be duplicated in actual situations due to environmental conditions or installation differences.

Sample NFRC Temporary Label

(not to scale)

 <p>HURD WINDOWS AND DOORS H-3 CASEMENT LE CLR W/SS SPCR (GIA&CHDL<1") CPD HUR-N-083 GAS FILLED TP</p>	
ENERGY Performance Ratings	
U-Factor (U.S./I-P) 0.30	Solar Heat Gain Coefficient 0.27
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmittance 0.48	_____
<p>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and specific product sizes. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information.</p>	
<p>ENERGY STAR® Qualified in All 50 States</p>   <p>50 Qualified</p>	

Rely on Hurd Performance

All Hurd products are manufactured to some of the most exacting standards in the industry. And now, you have even more assurance that the Hurd products you select will perform to the standards you require. The reason? All Hurd windows and patio doors have been independently certified by the National Fenestration Rating Council (NFRC) and carry the NFRC label.

NFRC Ratings

The testing and rating methods the NFRC has designed make window comparisons easy and accurate. Look for the NFRC labels on windows and doors. Use the U-factor rating to compare products, and to determine whether they meet your energy efficiency needs. U-factor is a thermal performance rating; the lower the U-factor, the better energy performance. Hurd is a founding member of the NFRC and supports work of the council on behalf of homeowners and the building industry.

- R-value is calculated as the reciprocal of the U-value
- Insulated Units (Insul) are not gas filled

For more information on performance characteristics of our products contact your local Hurd Distributor.



ENERGY STAR CRITERIA FOR WINDOWS

<u>Climate/Region</u>	<u>U-Factor</u>	<u>SHGC</u>
All Zones	.30 or lower	.27 or lower
Northern	.30 or lower	Any
North/Central	.32 or lower	.40 or lower
South/Central	.35 or lower	.30 or lower
Southern	.60 or lower	.27 or lower

ENERGY STAR CRITERIA FOR DOORS WITH GLAZING OF 1/2-LITE OR GREATER

<u>Climate/Region</u>	<u>U-Factor</u>	<u>SHGC</u>
All Zones	.32 or lower	.30 or lower

The Energy Star program was developed by the U.S. Department of Energy and the Environmental Protection Agency to assist consumers and businesses to identify products that shall help them save money and protect the environment. Hurd is proud to be an Energy Star Partner. Please note that the Energy Star criteria was revised in January, 2010. Window criteria is now different than door criteria as shown in the above tables.

Total Unit Thermal Ratings

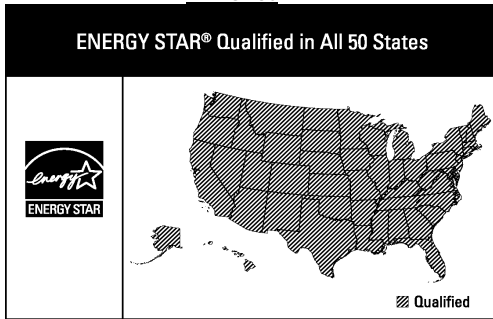
U-Factor R-Value SHGC VI

All thermal data was calculated using the latest NFRC approved computer programs and standard NFRC/ASHRAE winter conditions of 0° F outside temperature, 15 mph wind and 70° F inside temperature. Total unit thermal values are based on NFRC model sizes. See the listing shown below.

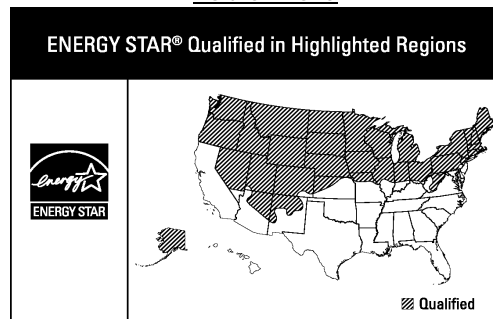
Product Type	Model Size	Product Type	Model Size
Casement	24" x 59"	Sliding Patio Door	79" x 79"
Fixed	47" x 59"	Swinging Patio Door	39" x 79"
Horizontal Slider	59" x 47"	Transom	79" x 24"
Awning	59" x 24"	Vertical Slider	47" x 59"
Sidelite	24" x 79"		

Energy Star® Maps

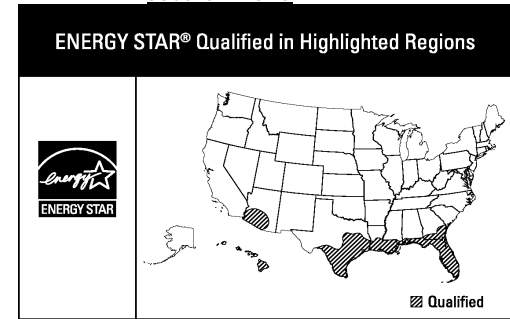
All Zones



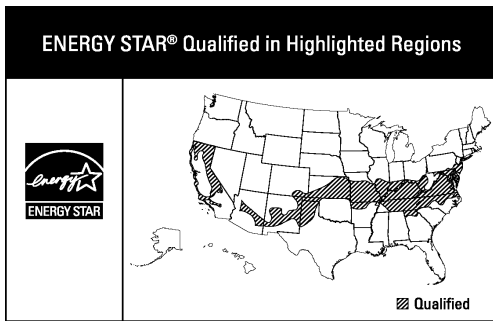
Northern Zone



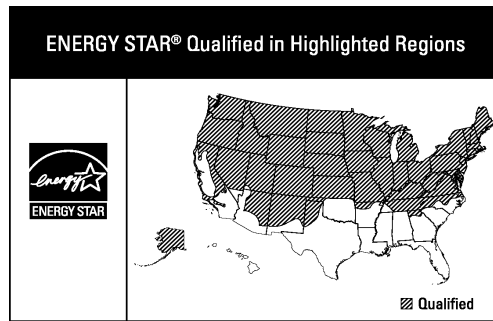
Southern Zone



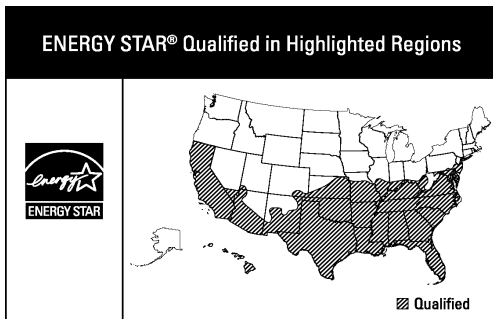
North Central Zone



Northern and North Central Zone



North Central/South Central/Southern Zone



South Central & Southern Zone

