

Product Series	Product Line (Model number in parenthesis)	Glass Type	No Grilles			w/ Grilles				
			U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)	U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)		
9500	9500 Double-Hung	LoE2 w/Argon Gas	0.32	0.32	- NC - -	0.32	0.29	- NC SC -		
		LoE3 w/Argon Gas	0.30	0.24	N NC SC S	0.30	0.22	N NC SC S		
	9100 Picture Window	LoE2 w/Argon Gas	0.29	0.34	N NC - -	0.29	0.31	N NC - -		
		LoE3 w/Argon Gas	0.29	0.26	N NC SC S	0.29	0.23	N NC SC S		
8500	8500 Double-Hung	LoE2	0.35	0.32	- - - -	0.35	0.29	- - SC -		
		LoE2 w/Argon Gas	0.32	0.32	- NC - -	0.32	0.29	- NC SC -		
		LoE3	0.34	0.24	- - SC S	0.34	0.22	- - SC S		
		LoE3 w/Argon Gas	0.30	0.24	N NC SC S	0.30	0.22	N NC SC S		
	8700/8800 Sliding Window (8700, 8803, 8804)	Clear	0.47	0.60	- - - -	0.47	0.53	- - - -		
		LoE2	0.34	0.32	- - - -	0.34	0.28	- - SC -		
		LoE2 w/Argon Gas	0.31	0.31	- NC - -	0.31	0.28	- NC SC -		
		LoE3	0.34	0.24	- - SC S	0.34	0.22	- - SC S		
7500	7500 Casement Window (7501, 7502, 7503, 7504, 7506)	Clear	0.45	0.55	- - - -	0.45	0.50	- - - -		
		LoE2	0.33	0.29	- - SC -	0.33	0.26	- - SC S		
		LoE2 w/Argon Gas	0.30	0.29	N NC SC -	0.30	0.27	N NC SC S		
		LoE3	0.33	0.22	- - SC S	0.33	0.20	- - SC S		
		LoE3 w/Argon Gas	0.30	0.22	N NC SC S	0.30	0.20	N NC SC S		
	7507 Picture Window	Clear	0.46	0.62	- - - -	0.46	0.56	- - - -		
		LoE2	0.33	0.33	- - - -	0.33	0.30	- - SC -		
		LoE2 w/Argon Gas	0.29	0.33	N NC - -	0.29	0.30	N NC SC -		
		LoE3	0.33	0.25	- - SC S	0.33	0.23	- - SC S		
		LoE3 w/Argon Gas	0.29	0.25	N NC SC S	0.29	0.23	N NC SC S		
		7400	7400 Awning Window (7401, 7402H, 7412V, 7403H, 7413V, 7416)	Clear	0.45	0.55	- - - -	0.45	0.50	- - - -
				LoE2	0.33	0.29	- - SC -	0.33	0.26	- - SC S
LoE2 w/Argon Gas	0.30			0.29	N NC SC -	0.30	0.26	N NC SC S		
LoE3	0.32			0.22	- NC SC S	0.32	0.20	- NC SC S		
LoE3 w/Argon Gas	0.29			0.22	N NC SC S	0.29	0.20	N NC SC S		
7407 Picture Window	Clear		0.46	0.62	- - - -	0.46	0.60	- - - -		
	LoE2		0.33	0.33	- - - -	0.33	0.30	- - SC -		
	LoE2 w/Argon Gas		0.29	0.33	N NC - -	0.29	0.30	N NC SC -		
5900	5900 Hopper Window	LoE3	0.33	0.25	- - SC S	0.33	0.23	- - SC S		
		LoE3 w/Argon Gas	0.29	0.25	N NC SC S	0.29	0.23	N NC SC S		
		Clear	0.48	0.54	- - - -	0.48	0.49	- - - -		
4100	4100 Picture Window & Shapes (4100, 40NS, 8100, 9100, 4400, 4402, 4403, 4404, 4406, 4407, 4408, 4409, 4479)	LoE2	0.36	0.29	- - - -	0.36	0.27	- - - S		
		LoE2 w/Argon Gas	0.33	0.29	- - SC -	0.33	0.26	- - SC S		
		Clear	-	-	- - - -	-	-	- - - -		
		LoE2	0.33	0.34	- - - -	0.33	0.31	- - - -		
		LoE2 w/Argon Gas	0.29	0.34	N NC - -	0.29	0.31	N NC - -		
1200	1200 Double-hung Window	LoE3	0.32	0.26	- NC SC S	0.32	0.24	- NC SC S		
		LoE3 w/Argon Gas	0.29	0.26	N NC SC S	0.29	0.23	N NC SC S		
		Clear	0.50	0.62	- - - -	0.50	0.56	- - - -		
		LoE2	0.36	0.33	- - - -	0.36	0.30	- - - -		
		LoE2 w/Argon Gas	0.32	0.33	- NC - -	0.32	0.30	- NC SC -		
	1300 Picture Window	LoE3	0.35	0.25	- - SC S	0.35	0.23	- - SC S		
		LoE3 w/Argon Gas	0.30	0.25	N NC SC S	0.30	0.23	N NC SC S		
		Clear	0.47	0.65	- - - -	0.48	0.59	- - - -		
		LoE2	0.33	0.35	- - - -	0.35	0.32	- - - -		
		LoE2 w/Argon Gas	0.28	0.35	N NC - -	0.30	0.32	N NC - -		
500	500 Molded Sliding Window	LoE3	0.33	0.27	- - SC S	0.34	0.25	- - SC S		
300	300 Molded Hopper Window	LoE3 w/Argon Gas	0.28	0.27	N NC SC S	0.29	0.24	N NC SC S		
500	500 Molded Sliding Window	LoE2	0.37	0.35	- - - -	NA	NA	- - - -		
300	300 Molded Hopper Window	LoE2	0.37	0.31	- - - -	NA	NA	- - - -		

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ENERGY STAR® QUALIFICATION

The ENERGY STAR® program was developed by the U.S. Department of Energy and the Environmental Protection Agency to help consumers identify products that save energy. Requirements for windows and doors are tailored to meet the energy needs of the country's four different regions - Northern, North-Central, South-Central and Southern. ENERGY STAR windows and doors must be rated, certified and labeled by the National Fenestration Rating Council (NFRC) for U-Value and Solar Heat Gain Coefficient (SHGC).

ENERGY STAR® Qualification Criteria for Residential Windows

Climate Zone	U-Factor ¹	SHGC ²	
Northern	≤ 0.30	Any	Prescriptive
	≥ 0.31	≥ 0.35	Equivalent Energy Performance
	≥ 0.32	≥ 0.40	
North-Central	≤ 0.32	≤ 0.40	
South-Central	≤ 0.35	≤ 0.30	
Southern	≤ 0.60	≤ 0.27	



¹ Btu/h-ft²-F

² Fraction of incident solar radiation

Test methods: NFRC 100-2009 for U-Factor, NFRC 200-2004 for SHGC and Visible Light Transmittance

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			U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)		U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)					
7550	7550 Casement Window (7551, 7552, 7553, 7554, 7556, 7561, 7562, 7563, 7564, 7566, 7570, 7570TW, 7570TR)	Clear	0.45	0.54	-	-	-	-	0.45	0.49	-	-	-	-
		LoE2	0.34	0.29	-	-	SC	-	0.34	0.26	-	-	SC	S
		LoE2 w/Argon Gas	0.31	0.28	-	NC	SC	-	0.31	0.26	-	NC	SC	S
		LoE3	0.34	0.22	-	-	SC	S	0.34	0.20	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	S
	7580 Fixed Window Shapes (7580, 7582, 7583, 7584, 7586, 7587, 7588, 7599)	Clear	0.45	0.54	-	-	-	-	0.45	0.49	-	-	-	-
		LoE2	0.34	0.29	-	-	SC	-	0.34	0.26	-	-	SC	S
		LoE2 w/Argon Gas	0.31	0.28	-	NC	SC	-	0.31	0.26	-	NC	SC	S
		LoE3	0.34	0.22	-	-	SC	S	0.34	0.20	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	S
7450	7450 Awning Window (7451, 7452, 7453, 7462V, 7463V, 7466)	Clear	0.46	0.54	-	-	-	-	0.46	0.49	-	-	-	-
		LoE2	0.34	0.29	-	-	SC	-	0.34	0.26	-	-	SC	S
		LoE2 w/Argon Gas	0.31	0.28	-	NC	SC	-	0.31	0.26	-	NC	SC	S
		LoE3	0.34	0.22	-	-	SC	S	0.34	0.20	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC	S
3900	3900 Double-hung Window (3901, 3902, 3903, 3910, 3920, 3930)	LoE2	0.35	0.32	-	-	-	-	0.35	0.29	-	-	SC	-
		LoE2 w/Argon Gas	0.31	0.32	-	NC	-	-	0.31	0.29	-	NC	SC	-
		LoE3	0.33	0.25	-	-	SC	S	0.33	0.22	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S
	3950 Picture Window & Shapes (3941, 3942, 3943, 3944, 3951, 3952, 3953, 3954, 3961, 3962, 3963, 3964, 3966, 3967, 3968, 3969, 39702, 39703, 3971)	LoE2	0.33	0.34	-	-	-	-	0.33	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.29	0.34	N	NC	-	-	0.29	0.31	N	NC	-	-
		LoE3	0.31	0.26	-	NC	SC	S	0.31	0.24	-	NC	SC	S
		LoE3 w/Argon Gas	0.28	0.26	N	NC	SC	S	0.28	0.24	N	NC	SC	S
3000	3000 Double-hung Window (3001, 3002, 3003, 3010, 3020, 3030)	LoE2	0.35	0.32	-	-	-	-	0.35	0.29	-	-	SC	-
		LoE2 w/Argon Gas	0.31	0.32	-	NC	-	-	0.31	0.29	-	NC	SC	-
		LoE3	0.33	0.25	-	-	SC	S	0.33	0.22	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC	S
	3050 Picture Window & Shapes (3041, 3042, 3043, 3044, 3051, 3052, 3053, 3054, 3061, 3062, 3063, 3064, 3066, 3067, 3068, 3069, 3070L, 3070C, 3070R, 30702, 30703, 3071, 3077)	LoE2	0.33	0.34	-	-	-	-	0.33	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.29	0.34	N	NC	-	-	0.29	0.31	N	NC	-	-
		LoE3	0.31	0.26	-	NC	SC	S	0.31	0.24	-	NC	SC	S
		LoE3 w/Argon Gas	0.28	0.26	N	NC	SC	S	0.28	0.24	N	NC	SC	S
2900	2900 Single-hung Window (2901, 2902, 2903, 2910, 2920, 2930)	Clear	0.49	0.62	-	-	-	-	0.49	0.56	-	-	-	-
		LoE2	0.35	0.34	-	-	-	-	0.36	0.30	-	-	-	-
		LoE2 w/Argon Gas	0.31	0.33	-	NC	-	-	0.32	0.30	-	NC	SC	-
		LoE3	0.34	0.26	-	-	SC	S	0.36	0.23	-	-	-	S
		LoE3 w/Argon Gas	0.30	0.25	N	NC	SC	S	0.30	0.23	N	NC	SC	S
	2950 Picture Window & Shapes (2940, 2942, 2943, 2944, 2945, 2950, 2952, 2953, 2954, 2961, 2962, 2963, 2964, 2966, 2967, 2968, 2969, 2970, 2971, 2975, 2977, 2979, 2987, 2989)	Clear	0.49	0.64	-	-	-	-	0.49	0.57	-	-	-	-
		LoE2	0.37	0.34	-	-	-	-	0.38	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.32	0.34	-	NC	-	-	0.34	0.30	-	-	SC	-
		LoE3	0.36	0.25	-	-	-	S	0.37	0.23	-	-	-	S
		LoE3 w/Argon Gas	0.31	0.25	-	NC	SC	S	0.32	0.23	-	NC	SC	S
2800	2800 Sliding Window (2802, 2803, 2804)	Clear	0.49	0.62	-	-	-	-	0.49	0.56	-	-	-	-
		LoE2	0.35	0.34	-	-	-	-	0.36	0.30	-	-	-	-
		LoE2 w/Argon Gas	0.31	0.33	-	NC	-	-	0.32	0.30	-	NC	SC	-
		LoE3	0.34	0.26	-	-	SC	S	0.35	0.23	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.25	N	NC	SC	S	0.30	0.23	N	NC	SC	S

2700	2710/2760 Single-hung Window (2710B, 2710C, 2760B, 2760)	LoE2	0.36	0.34	-	-	-	-	0.38	0.30	-	-	-	-
		LoE2 w/Argon Gas	0.32	0.33	-	NC	-	-	0.33	0.30	-	-	SC	-
		LoE3	0.36	0.26	-	-	-	S	0.37	0.23	-	-	-	S
		LoE3 w/Argon Gas	0.31	0.25	-	NC	SC	S	0.33	0.23	-	-	SC	S
	2730/2780 Picture Window & Shapes (2730, 2735, 2739, 2780, 2785)	LoE2	0.38	0.34	-	-	-	-	0.40	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.32	0.34	-	NC	-	-	0.34	0.30	-	-	SC	-
		LoE3	0.37	0.26	-	-	-	S	0.39	0.24	-	-	-	S
		LoE3 w/Argon Gas	0.32	0.26	-	NC	SC	S	0.34	0.23	-	-	SC	S
2390	2390 Sliding Window (2392, 2393, 2394)	Clear	0.49	0.66	-	-	-	-	0.49	0.59	-	-	-	-
		LoE2	0.34	0.35	-	-	-	-	0.34	0.32	-	-	-	-
		LoE2 w/Argon Gas	0.29	0.35	N	NC	-	-	0.29	0.31	N	NC	-	-
		LoE3	0.33	0.27	-	-	SC	S	0.33	0.24	-	-	SC	S
		LoE3 w/Argon Gas	0.29	0.26	N	NC	SC	S	0.29	0.24	N	NC	SC	S
2300	2300 Single-hung Window (2301, 2302, 2303, 2381, 2382, 2385L, 2385R)	Clear	0.49	0.64	-	-	-	-	0.49	0.57	-	-	-	-
		LoE2	0.34	0.35	-	-	-	-	0.34	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.30	0.34	N	NC	-	-	0.30	0.31	N	NC	-	-
		LoE3	0.33	0.26	-	-	SC	S	0.33	0.24	-	-	SC	S
	2350 Picture Window & Shapes (2341, 2351, 2361, 2362, 2363, 2364, 2366, 2367, 2368, 2369)	Clear	0.48	0.65	-	-	-	-	0.49	0.59	-	-	-	-
		LoE2	0.34	0.35	-	-	-	-	0.35	0.32	-	-	-	-
		LoE2 w/Argon Gas	0.29	0.35	N	NC	-	-	0.30	0.32	N	NC	-	-
		LoE3	0.33	0.27	-	-	SC	S	0.34	0.25	-	-	SC	S
2110	2110 Single-hung Window (2110B, 2110C)	Clear	0.49	0.64	-	-	-	-	0.49	0.57	-	-	-	-
		LoE2	0.34	0.34	-	-	-	-	0.36	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.30	0.34	N	NC	-	-	0.31	0.31	-	NC	-	-
		LoE3	0.34	0.26	-	-	SC	S	0.35	0.24	-	-	SC	S
	2130 Picture Window & Shapes (2130, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2145)	Clear	0.48	0.65	-	-	-	-	0.49	0.59	-	-	-	-
		LoE2	0.34	0.35	-	-	-	-	0.35	0.32	-	-	-	-
		LoE2 w/Argon Gas	0.29	0.35	N	NC	-	-	0.30	0.32	N	NC	-	-
		LoE3	0.33	0.27	-	-	SC	S	0.34	0.25	-	-	SC	S
		LoE3 w/Argon Gas	0.29	0.27	N	NC	SC	S	0.30	0.24	N	NC	SC	S

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Southern	≤ 0.60	≤ 0.27	



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² Fraction of incident solar radiation

Test methods: NFRC 100-2009 for U-Factor, NFRC 200-2004 for SHGC and Visible Light Transmittance

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			U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)	U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)
5500/5700	5500/5700 Patio Door (5502, 5503, 5504, 5510, 5540, 5700, 5790)	Clear	0.47	0.63	-	0.47	0.56	-
		LoE2	0.34	0.33	-	0.34	0.30	-
		LoE2 w/Argon Gas	0.30	0.33	-	0.30	0.30	Energy Star Qualified Door
		LoE3	0.34	0.26	-	0.34	0.23	-
		LoE3 w/Argon Gas	0.30	0.25	Energy Star Qualified Door	0.30	0.23	Energy Star Qualified Door
5800	5800 Patio Door (5802, 5810, 5840)	LoE2	0.33	0.34	-	0.33	0.30	-
		LoE2 w/Argon Gas	0.29	0.33	-	0.29	0.30	Energy Star Qualified Door
		LoE3	0.32	0.25	Energy Star Qualified Door	0.32	0.23	Energy Star Qualified Door
		LoE3 w/Argon Gas	0.29	0.25	Energy Star Qualified Door	0.29	0.22	Energy Star Qualified Door

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Glazing Level	U-Factor ¹	SHGC ²
Opaque	≤ 0.21	No Rating
≤ ½-Lite	≤ 0.27	≤ 0.30
> ½-Lite	≤ 0.32	≤ 0.30



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