

**REPLACEMENT WINDOWS
 THERMAL PERFORMANCE**

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	Clear	0.48	0.60	-	-	-	0.48	0.54	-	-	-	
		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
		LoE3 w/Argon Gas	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC
	9100 Picture Window	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	-	
		LoE3	0.32	0.26	-	NC	SC	S	0.32	0.24	-	NC	SC
		LoE3 w/Argon Gas	0.29	0.26	N	NC	SC	S	0.29	0.23	N	NC	SC
8500	8500 Double-Hung	Clear	0.48	0.60	-	-	-	0.48	0.54	-	-	-	
		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
		LoE3 w/Argon Gas	0.30	0.24	N	NC	SC	S	0.30	0.22	N	NC	SC
	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
		LoE3 w/Argon Gas	0.30	0.24	N	NC	SC	S	0.30	0.21	N	NC	SC
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
		LoE2 w/Argon Gas	0.30	0.29	N	NC	SC	-	0.30	0.27	N	NC	SC
		LoE3	0.33	0.22	-	-	SC	S	0.33	0.20	-	-	SC
		LoE3 w/Argon Gas	0.30	0.22	N	NC	SC	S	0.30	0.20	N	NC	SC
	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
		LoE3 w/Argon Gas	0.29	0.25	N	NC	SC	S	0.29	0.23	N	NC	SC
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
		LoE2 w/Argon Gas	0.30	0.29	N	NC	SC	-	0.30	0.26	N	NC	SC
		LoE3	0.32	0.22	-	NC	SC	S	0.32	0.20	-	NC	SC
		LoE3 w/Argon Gas	0.29	0.22	N	NC	SC	S	0.29	0.20	N	NC	SC
	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	
		LoE3	0.33	0.25	-	-	SC	S	0.33	0.23	-	-	SC
		LoE3 w/Argon Gas	0.29	0.25	N	NC	SC	S	0.29	0.23	N	NC	SC
5900	5900 Hopper Window	Clear	0.48	0.54	-	-	-	0.48	0.49	-	-	-	
		LoE2	0.36	0.29	-	-	-	0.36	0.27	-	-	S	
		LoE2 w/Argon Gas	0.33	0.29	-	-	SC	-	0.33	0.26	-	-	SC
4100	4100 Picture Window & Shapes (4100, 4400, 4402, 4403, 4404, 4406, 4407, 4408, 4409, 4479)	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	-	
		LoE3	0.32	0.26	-	NC	SC	S	0.32	0.24	-	NC	SC
		LoE3 w/Argon Gas	0.29	0.26	N	NC	SC	S	0.29	0.23	N	NC	SC
2090	2090 Sliding Window (2092, 2093, 2094)	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
		LoE3 w/Argon Gas	0.29	0.26	N	NC	SC	S	0.29	0.24	N	NC	SC
2000	2000 Single-hung Window (2001, 2002, 2003)	Clear	0.49	0.65	-	-	-	0.49	0.59	-	-	-	
		LoE2	0.35	0.35	-	-	-	0.35	0.32	-	-	-	
		LoE2 w/Argon Gas	0.30	0.35	N	NC	-	0.30	0.31	N	NC	-	
		LoE3	0.34	0.27	-	-	SC	S	0.34	0.24	-	-	SC
		LoE3 w/Argon Gas	0.30	0.26	N	NC	SC	S	0.30	0.24	N	NC	SC
	2050 Picture Window (2051, 2079)	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
		LoE3 w/Argon Gas	0.29	0.27	N	NC	SC	S	0.29	0.24	N	NC	SC

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			U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)	U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)
1200	1200 Double-hung Window	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 -
		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	
	1300 Picture Window	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 - -
LoE3		0.33	0.27	- - SC S	0.34	0.25	- - SC S	
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	Clear	0.50	0.65	- - - -	NA	NA	- - - -
		LoE2	0.37	0.35	- - - -	NA	NA	- - - -
		LoE2 w/Argon Gas	0.36	0.34	- - - -	NA	NA	- - - -
300	300 Molded Hopper Window	Clear	0.50	0.58	- - - -	NA	NA	- - - -
		LoE2	0.37	0.31	- - - -	NA	NA	- - - -
		LoE2 w/Argon Gas	0.34	0.31	- - - -	NA	NA	- - - -

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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