

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)					
Traditional Replacement w/ Flush Fin	Traditional Single-Hung Windows (WRSH1, WRSH2, WRSH3, WRSH1P)	LoE2	0.34	0.33	-	-	-	-	0.34	0.30	-	-	SC	-
		LoE2 w/Argon Gas	0.30	0.33	N	NC	-	-	0.30	0.30	N	NC	SC	S
		LoE3	0.33	0.25	-	-	SC	S	0.33	0.23	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.25	N	NC	SC	S	0.30	0.22	N	NC	SC	S
	Traditional Sliding Windows (WRSWXO, WRSWOX, WRSWXOP, WRSWOXP, WRSWXOX, WRSWXOXL, WRSWXOP)	LoE2	0.34	0.33	-	-	-	-	0.34	0.30	-	-	SC	-
		LoE2 w/Argon Gas	0.30	0.33	N	NC	-	-	0.30	0.30	N	NC	SC	-
		LoE3	0.33	0.25	-	-	SC	S	0.33	0.23	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.25	N	NC	SC	S	0.30	0.22	N	NC	SC	S
	Traditional Picture & Shape Windows (WRPW1, WRPW2, WRPW3, WRHC, WRQC)	LoE2	0.32	0.34	-	NC	-	-	0.33	0.30	-	-	SC	-
		LoE2 w/Argon Gas	0.28	0.34	N	NC	-	-	0.29	0.30	N	NC	SC	-
		LoE3	0.32	0.26	-	-	SC	S	0.33	0.23	-	-	SC	S
		LoE3 w/Argon Gas	0.27	0.25	N	NC	SC	S	0.28	0.23	N	NC	SC	S
	Traditional Casement Windows (WRCW1, WRCW2, WRCW3, WTCWCPC)	LoE2	0.30	0.27	N	NC	SC	S	0.30	0.25	N	NC	SC	S
		LoE2 w/Argon Gas	0.27	0.27	N	NC	SC	S	0.27	0.24	N	NC	SC	S
		LoE3	0.30	0.21	N	NC	SC	S	0.30	0.19	N	NC	SC	S
		LoE3 w/Argon Gas	0.27	0.20	N	NC	SC	S	0.27	0.19	N	NC	SC	S
	Traditional Awning Windows (WRAW1, WRAW2H, WRAW2V, WRAW3H, WRAW3V)	LoE2	0.30	0.27	N	NC	SC	S	0.30	0.25	N	NC	SC	S
		LoE2 w/Argon Gas	0.27	0.27	N	NC	SC	S	0.27	0.24	N	NC	SC	S
		LoE3	0.30	0.21	N	NC	SC	S	0.30	0.19	N	NC	SC	S
		LoE3 w/Argon Gas	0.27	0.20	N	NC	SC	S	0.27	0.19	N	NC	SC	S
	Traditional Casement Fixed Windows (WRCWP)	LoE2	0.32	0.32	-	NC	-	-	0.32	0.29	-	NC	SC	-
		LoE2 w/Argon Gas	0.29	0.32	N	NC	-	-	0.29	0.29	N	NC	SC	-
		LoE3	0.32	0.25	-	NC	SC	S	0.32	0.22	-	NC	SC	S
		LoE3 w/Argon Gas	0.28	0.24	N	NC	SC	S	0.28	0.22	N	NC	SC	S
	Traditional Casement Shape Windows (WRCWHC, WRCWQC)	LoE2	0.31	0.35	-	NC	-	-	0.32	0.32	-	NC	-	-
		LoE2 w/Argon Gas	0.26	0.35	N	NC	-	-	0.27	0.32	N	NC	-	-
		LoE3	0.30	0.27	N	NC	SC	S	0.31	0.25	-	NC	SC	S
		LoE3 w/Argon Gas	0.26	0.27	N	NC	SC	S	0.27	0.24	N	NC	SC	S
	Traditional Patio Door (WRPD2)	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			

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

ENERGY STAR® Qualification Criteria for Residential Doors

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

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

¹ Btu/h-ft²·F
² Fraction of incident solar radiation



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² Fraction of incident solar radiation

Test methods: NFRC 100-2009 for U-Factor, NFRC 200-2004 for SHGC

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			U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)		U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)					
Traditional New Construction w/ Nailing Fin	Traditional Single-Hung Windows (WTSH1, WTSH2, WTSH3, WTSH1P)	LoE2	0.34	0.33	-	-	-	-	0.34	0.30	-	-	SC	-
		LoE2 w/Argon Gas	0.30	0.33	N	NC	-	-	0.30	0.30	N	NC	SC	-
		LoE3	0.33	0.25	-	-	SC	S	0.33	0.23	-	-	SC	S
	Traditional Sliding Windows (WTSWXO, WTSWOX, WTSWXOP, WTSWOXP, WTSWXOX, WTSWXOXP, WTSWXOXL)	LoE2	0.34	0.33	-	-	-	-	0.34	0.30	-	-	SC	-
		LoE2 w/Argon Gas	0.30	0.33	N	NC	-	-	0.30	0.30	N	NC	SC	-
		LoE3	0.33	0.25	-	-	SC	S	0.33	0.23	-	-	SC	S
	Traditional Picture & Shape Windows (WTPW1, WTPW2, WTPW3, WTHC, WTQC, WTAT, WTPN, WTOC, WTFC)	LoE2	0.32	0.34	-	NC	-	-	0.33	0.30	-	-	SC	-
		LoE2 w/Argon Gas	0.28	0.34	N	NC	-	-	0.29	0.30	N	NC	SC	-
		LoE3	0.32	0.26	-	-	SC	S	0.33	0.23	-	-	SC	S
	Traditional Casement Windows (WTCW1, WTCW2, WTCW3, WTCWCPC)	LoE2	0.30	0.27	N	NC	SC	S	0.30	0.25	N	NC	SC	S
		LoE2 w/Argon Gas	0.27	0.27	N	NC	SC	S	0.27	0.24	N	NC	SC	S
		LoE3	0.30	0.21	N	NC	SC	S	0.30	0.19	N	NC	SC	S
	Traditional Awning Windows (WTAW1, WTAW2H, WTAW2V, WTAW3H, WTAW3V)	LoE2	0.30	0.27	N	NC	SC	S	0.30	0.25	N	NC	SC	S
		LoE2 w/Argon Gas	0.27	0.27	N	NC	SC	S	0.27	0.24	N	NC	SC	S
		LoE3	0.30	0.21	N	NC	SC	S	0.30	0.19	N	NC	SC	S
	Traditional Casement Fixed Windows (WTCWP)	LoE2	0.32	0.32	-	NC	-	-	0.32	0.29	-	NC	SC	-
		LoE2 w/Argon Gas	0.29	0.32	N	NC	-	-	0.29	0.29	N	NC	SC	-
		LoE3	0.32	0.25	-	NC	SC	S	0.32	0.22	-	NC	SC	S
	Traditional Casement Shape Windows (WTCWHC, WTCWQC)	LoE2	0.31	0.35	-	NC	-	-	0.32	0.32	-	NC	-	-
		LoE2 w/Argon Gas	0.26	0.35	N	NC	-	-	0.27	0.32	N	NC	-	-
		LoE3	0.30	0.27	N	NC	SC	S	0.31	0.25	-	NC	SC	S
	Traditional Patio Door (WTPD2, WTPS)	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	-	-	-	-	0.32	0.23	-	-	-	Energy Star Qualified Door
			LoE3 w/Argon Gas	0.29	0.25	-	-	-	0.29	0.22	-	-	-	Energy Star Qualified Door

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	≤ 0.31	≥ 0.35	Equivalent Energy Performance
	≤ 0.32	≥ 0.40	Equivalent Energy Performance
North-Central	≤ 0.32	≤ 0.40	
South-Central	≤ 0.35	≤ 0.30	
Southern	≤ 0.60	≤ 0.27	

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

¹ Btu/h-ft²·F
² Fraction of incident solar radiation



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			U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)		U-Factor	SHGC	ENERGY STAR Qualified Climate Zone(s)					
Contemporary New Construction w/ Nailing Fin	Contemporary Single-Hung Windows (WCSH1, WCSH2, WCSH3)	LoE2	0.34	0.34	-	-	-	-	0.34	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.31	0.34	-	NC	-	-	0.31	0.31	-	NC	-	-
		LoE3	0.34	0.26	-	-	SC	S	0.34	0.24	-	-	SC	S
	Contemporary Sliding Windows (WCSWXO, WCSWOX, WCSWXOX, WCSWXOXL)	LoE2	0.30	0.26	N	NC	SC	S	0.30	0.24	N	NC	SC	S
		LoE2 w/Argon Gas	0.35	0.34	-	-	-	-	0.35	0.31	-	-	-	-
		LoE2 w/Argon Gas	0.31	0.34	-	NC	-	-	0.31	0.31	-	NC	-	-
	Contemporary Picture & Shape Windows (WCPW1, WCPW2, WCPW3, WCHC, WCQC, QCAT, WCPN, WCOC, WCFC)	LoE3	0.34	0.26	-	-	SC	S	0.34	0.24	-	-	SC	S
		LoE3 w/Argon Gas	0.30	0.26	N	NC	SC	S	0.30	0.24	N	NC	SC	S
		LoE2	0.32	0.37	-	NC	-	-	0.32	0.33	-	NC	-	-
		LoE2 w/Argon Gas	0.28	0.37	N	NC	-	-	0.28	0.33	N	NC	-	-
		LoE3	0.32	0.28	-	NC	SC	-	0.33	0.26	-	-	SC	S
		LoE3 w/Argon Gas	0.27	0.28	N	NC	SC	-	0.28	0.25	N	NC	SC	S

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North-Central	≤ 0.31	≥ 0.35	
	≤ 0.32	≥ 0.40	
South-Central	≤ 0.32	≤ 0.40	
Southern	≤ 0.35	≤ 0.30	
	≤ 0.60	≤ 0.27	

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Opaque	≤ 0.21	No Rating
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> ½-Lite	≤ 0.32	≤ 0.30

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