

SolarTherm® Glass Packages

Meet New ENERGY STAR® 7.0 Criteria

As of October 23, 2023, the ENERGY STAR 7.0 program implemented more stringent energy-saving criteria for windows and doors, with lower U-Factor and Solar Heat Gain Coefficient performance requirements.

Precision-engineered Alpine windows and sliding patio doors offer a variety of SolarTherm insulated glass packages that meet new ENERGY STAR 7.0 certification in all climate zones. Alpine windows that achieve ENERGY STAR Most Efficient may also qualify for tax credits.¹

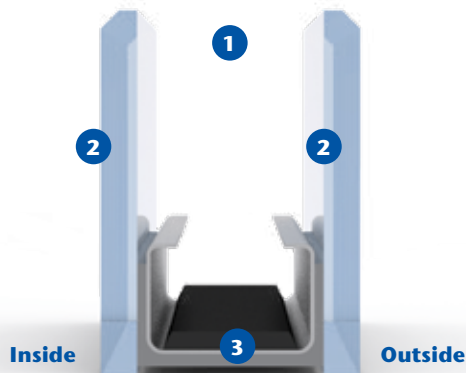
ENERGY STAR Promotes Top-Tier Efficiency

- Windows and patio doors earning the ENERGY STAR label have been verified as energy-efficient products that are a positive choice for the environment.
- The ENERGY STAR program increases its energy-saving performance requirements based on the latest technology and innovations in the industry.
- Meeting ENERGY STAR's new 7.0 and Most Efficient certification criteria further incentivizes manufacturers to produce highly energy-efficient windows and doors.

The SolarTherm Energy-Saving Solution

SolarTherm's enhanced dual-pane design with two surfaces of Low-E (low-emissivity) technology, argon gas fill and warm-edge spacer provides outstanding thermal protection against energy loss.²

- 1 Argon Gas
- 2 Low-E Glass
- 3 Warm-Edge Spacer



SolarTherm features a variety of high-performance glass packages that meet the new ENERGY STAR 7.0 certification requirements. See your Alpine Sales Representative for more information about energy-efficient glass packages for your climate zone.



Alpine Windows and Sliding Patio Doors Meet ENERGY STAR 7.0

Thermal Performance Comparison

	Montrose ³		ENERGY STAR 7.0 Climate Zone
	U-Factor	SHGC	
SolarTherm Quattro ThermD	0.24	0.47	N
SolarThermD SF	0.24	0.27	NC
SolarThermD Ultra	0.27	0.21	SC, S

	80 Series ⁴		ENERGY STAR 7.0 Climate Zone
	U-Factor	SHGC	
SolarTherm Quattro ThermD	0.26	0.49	N
SolarThermD SF ⁵	0.25	0.32	NC
SolarTherm SF Ultra	0.26	0.21	SC
SolarTherm Ultra	0.31	0.21	S

	Westbridge 6500 ⁴		ENERGY STAR 7.0 Climate Zone
	U-Factor	SHGC	
SolarThermD SF	0.22	0.29	N, NC
SolarThermD SF Ultra	0.22	0.20	SC, S

	A170 Series ⁴		ENERGY STAR 7.0 Climate Zone
	U-Factor	SHGC	
SolarThermD SF	0.24	0.30	N, NC
SolarThermD SF Ultra	0.24	0.22	SC, S

³Whole window values, double-strength glass with enhanced cavity foam.

⁴Whole window values, double-strength glass.

⁵Whole window values, double-strength glass with iE liner.

SolarTherm Quattro ThermD: Dual-pane unit, two panes of enhanced Low-E glass (surfaces 2 and 4), argon gas and stainless steel Intercept® spacer.

SolarThermD SF: Dual-pane unit, two panes of Low-E glass (surfaces 2 and 4), argon gas and stainless steel Intercept spacer.

SolarThermD SF Ultra: Dual-pane unit, two panes of Low-E glass (surfaces 2 (SHGC) and 4), argon gas and stainless steel Intercept spacer.

SolarTherm SF Ultra: Dual-pane unit, two panes of Low-E glass (surfaces 2 (SHGC) and 4), argon gas and metal alloy Intercept spacer.

SolarThermD Ultra: Dual-pane unit, one pane of SHGC Low-E glass, argon gas and stainless steel Intercept spacer.

SolarTherm Ultra: Dual-pane unit, one pane Low-E SHGC glass, argon gas and metal alloy Intercept spacer.



SolarTherm

High-Performance Insulated Glass Packages



ENERGY STAR 7.0 Program Changes

ENERGY STAR 7.0 for windows and doors incorporates new criteria for meeting ENERGY STAR certification. The charts below show the change from Version 6.0 to Version 7.0, with the new performance requirements in green.

Version 6.0

(Effective through Oct. 22, 2023)

Windows	Climate Zone	U-Factor	SHGC	
	Northern	≤ 0.27	Any	Prescriptive
		$= 0.28$	≥ 0.32	Equivalent Energy Performance
		$= 0.29$	≥ 0.37	
		$= 0.30$	≥ 0.42	
	North-Central	≤ 0.30	≤ 0.40	
	South-Central	≤ 0.30	≤ 0.25	
	Southern	≤ 0.40	≤ 0.25	

Version 7.0

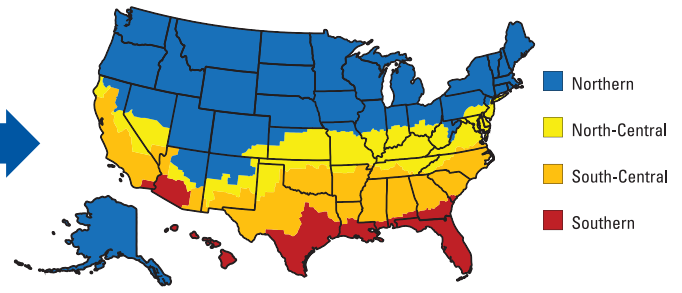
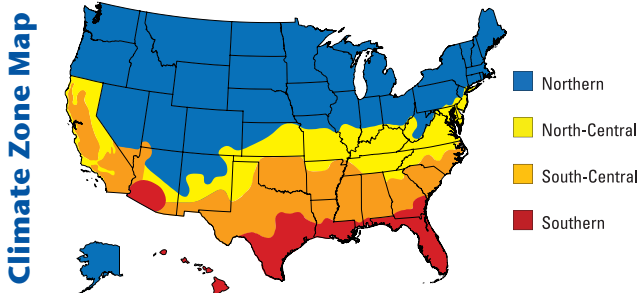
(Effective as of Oct. 23, 2023)

Climate Zone	U-Factor	SHGC	
Northern	≤ 0.22	≥ 0.17	Prescriptive
	$= 0.23$	≥ 0.35	Equivalent Energy Performance
	$= 0.24$		
	$= 0.25$	≥ 0.40	
	$= 0.26$		
North-Central	≤ 0.25	≤ 0.40	
South-Central	≤ 0.28	≤ 0.23	
Southern	≤ 0.32	≤ 0.23	

Sliding Patio Doors	Glazing Level	U-Factor	SHGC
	Opaque	≤ 0.17	No Rating
	$\leq 1/2$ Lite	≤ 0.25	≤ 0.25
	$> 1/2$ Lite	≤ 0.30	Northern North-Central ≤ 0.40
			South-Central Southern ≤ 0.25

Glazing Level	U-Factor	SHGC
Opaque	≤ 0.17	No Rating
$\leq 1/2$ Lite	≤ 0.23	≤ 0.23
$> 1/2$ Lite	≤ 0.26	Northern North-Central ≤ 0.40
	≤ 0.28	South-Central Southern ≤ 0.23

■ = Change



Map is segmented at the county level with the exception of California, which is segmented by zip code.

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