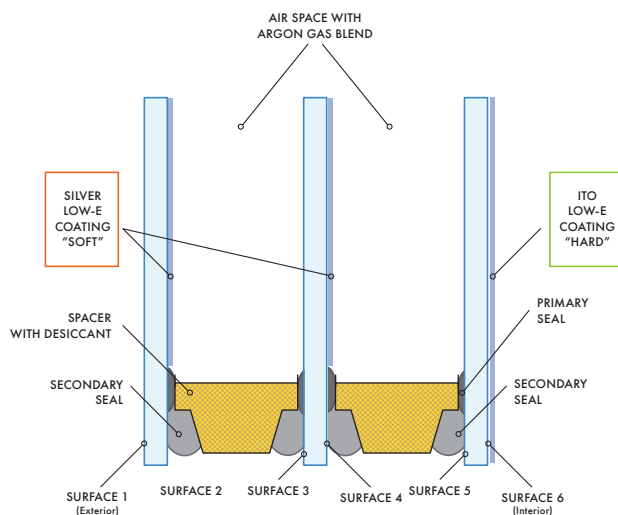




ENHANCED ENERGY PERFORMANCE

Triple-pane glass is available on select 400 Series products to help you improve energy efficiency, lower energy bills, and meet ENERGY STAR® v. 7.0 performance requirements with multiple Low-E coating combinations. While triple-pane glass can be beneficial in all regions, its impact is most significant in colder climates where more months of the year are spent heating the home.



- Products with glass options that are NFRC certified and meet ENERGY STAR v. 7.0 performance requirements throughout the U.S.



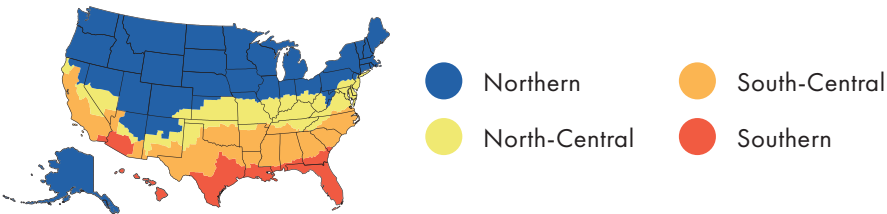
- Availability for 400 Series products:
 - Windows: casement, awning, casement/awning picture, casement/awning transom, tilt-wash double-hung full-frame, and tilt-wash transom
 - Doors: Frenchwood® gliding and Frenchwood hinged
 - Specialty products: shapes and complementary specialty shapes



400 SERIES Triple-Pane Glass Options

ENERGY STAR® V. 7.0 PERFORMANCE CRITERIA

ENERGY STAR version 7.0 brings much more stringent U-Factor requirements than before. In the Northern climate zone, triple-pane glass is now the best solution for meeting stricter performance requirements. The table below shows you the U-Factor and SHGC of specific 400 Series products with triple-pane compared to dual-pane glass so you can identify the best solutions for your project.



PRODUCT	GLASS OPTIONS	TRIPLE-PANE			DUAL-PANE	
		U-FACTOR	SHGC	ENERGY STAR® v. 7.0	U-FACTOR	SHGC
400 SERIES TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOW – NO GRILLES	Low-E4®	0.28	0.29	○ ○ ○ ○	0.30	0.31
	Low-E4 Enhanced	0.25	0.28	○ ● ○ ○	—	—
	Low-E4 Enhanced with HeatLock® Technology	0.22	0.27	● ● ○ ○	—	—
	SmartSun™	0.28	0.19	○ ○ ● ●	0.30	0.21
	SmartSun Enhanced	0.24	0.19	○ ● ● ●	—	—
	SmartSun Enhanced with HeatLock Technology	0.22	0.18	● ● ● ●	—	—
	PassiveSun® Enhanced with HeatLock Technology	0.23	0.40	● ● ○ ○	—	—
400 SERIES CASEMENT WINDOW – NO GRILLES	Low-E4	0.26	0.29	○ ○ ○ ○	0.29	0.32
	Low-E4 Enhanced	0.22	0.29	● ● ○ ○	—	—
	Low-E4 Enhanced with HeatLock Technology	0.20	0.27	● ● ○ ○	—	—
	SmartSun	0.25	0.20	○ ● ● ●	0.28	0.21
	SmartSun Enhanced	0.22	0.19	● ● ● ●	—	—
	SmartSun Enhanced with HeatLock Technology	0.20	0.18	● ● ● ●	—	—
	PassiveSun Enhanced with HeatLock Technology	0.20	0.40	● ● ○ ○	—	—
400 SERIES COMPLEMENTARY SPECIALTY WINDOWS – NO GRILLES	Low-E4	0.25	0.32	○ ● ○ ○	0.28	0.37
	Low-E4 Enhanced	0.20	0.31	● ● ○ ○	—	—
	Low-E4 Enhanced with HeatLock Technology	0.18	0.29	● ● ○ ○	—	—
	SmartSun	0.25	0.22	○ ● ● ●	0.27	0.22
	SmartSun Enhanced	0.20	0.21	● ● ● ●	—	—
	SmartSun Enhanced with HeatLock Technology	0.18	0.20	● ● ● ●	—	—
	PassiveSun Enhanced with HeatLock Technology	—	—	Coming Soon	—	—



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