

A-SERIES PRODUCT PERFORMANCE



Center of Glass Performance Data – A-Series Windows and Patio Doors

For current performance information, please visit andersenwindows.com.

DUAL-PANE	Low-E4 [®] Dual-Pane Glass	VT ¹	SC ²	SHGC ³	RHG ⁴	Fading		%RH @ center ⁷	IGST ⁸
						Tuv ⁵	Tdw ⁶		
A-Series Products									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	72%	0.48	0.41	98.2	16%	33%	61%	56° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	71%	0.47	0.41	97.5	16%	33%	61%	56° F
	Complementary Curved Top Patio Doors	65%	0.31	0.27	207	5%	21%	61%	56° F

DUAL-PANE	Low-E4 [®] Sun Dual-Pane Glass	VT ¹	SC ²	SHGC ³	RHG ⁴	Fading		%RH @ center ⁷	IGST ⁸
						Tuv ⁵	Tdw ⁶		
A-Series Products									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	40%	0.29	0.25	61.1	16%	24%	60%	55° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	39%	0.29	0.25	60.6	15%	23%	61%	56° F
	Complementary Curved Top Patio Doors	72%	0.48	0.41	310	16%	33%	61%	56° F

DUAL-PANE	Low-E4 [®] SmartSun™ Dual-Pane Glass	VT ¹	SC ²	SHGC ³	RHG ⁴	Fading		%RH @ center ⁷	IGST ⁸
						Tuv ⁵	Tdw ⁶		
A-Series Products									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	65%	0.31	0.27	65.6	5%	21%	62%	56° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	64%	0.32	0.27	66.3	5%	21%	62%	56° F
	Complementary Curved Top Patio Doors	40%	0.29	0.25	193	16%	24%	59%	55° F

TRIPLE-PANE	Low-E4 [®] Triple-Pane Glass	VT ¹	SC ²	SHGC ³	RHG ⁴	Fading		%RH @ center ⁷	IGST ⁸
						Tuv ⁵	Tdw ⁶		
A-Series Products									
Low-E4									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	66%	0.44	0.38	91.6	14%	30%	64%	57° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	66%	0.44	0.38	91.6	14%	30%	64%	57° F
Low-E4 Enhanced									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	63%	0.43	0.37	88.6	8%	24%	71%	60° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	63%	0.43	0.37	88.6	8%	24%	71%	60° F
Low-E4 Enhanced with HeatLock® Technology									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	62%	0.41	0.36	84.3	8%	23%	54%	52° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	63%	0.43	0.37	88.6	8%	24%	71%	60° F

TRIPLE-PANE	Low-E4 [®] SmartSun™ Triple-Pane Glass	VT ¹	SC ²	SHGC ³	RHG ⁴	Fading		%RH @ center ⁷	IGST ⁸
						Tuv ⁵	Tdw ⁶		
A-Series Products									
SmartSun									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	59%	0.29	0.26	62.0	4%	19%	65%	57° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	59%	0.29	0.26	62.0	4%	19%	65%	57° F
SmartSun Enhanced									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	57%	0.29	0.25	59.6	2%	16%	71%	60° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	57%	0.29	0.25	59.6	2%	16%	71%	60° F
SmartSun Enhanced with HeatLock® Technology									
	Casement, Awning, Double-Hung, Picture, Transom & Specialty Windows	56%	0.27	0.24	56.9	2%	16%	54%	53° F
	Gliding, Hinged Inswing & Outswing Patio Doors, Patio Door Sidelights & Transoms	56%	0.27	0.24	56.9	2%	16%	54%	53° F

* "Low-E4™" and "Low-E4 SmartSun™" are Andersen trademarks for "Low-E" glass.

• Based on NFRC testing/simulation conditions using Windows v7.4.6.0 and NFRC validated spectral data. 0°F outside temperature, 70°F inside temperature and a 15 mph wind.

1) Visible Transmittance (VT) measures how much light comes through the glass. The higher the value, from 0 to 1, the more daylight the glass lets in. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum. 2) Shading Coefficient (SC) defines the amount of heat gain through the glass compared to a single light of clear 1/8" (3) glass. 3) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass directly transmitted, as well as absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 4) Relative Heat Gain (RHG) is the amount of heat gain through a glazing incorporating U-Factor and Solar Heat Gain Coefficient. 5) Transmission Ultra-Violet Energy (Tuv). The transmission of short-wave energy in the 300-380 nanometer portion of the solar spectrum. The energy can cause fabric fading. 6) Transmission Damage Function (Tdw). The transmission of UV and visible light energy in the 300-600 nanometer portion of the solar spectrum. The value includes both the UV and visible light energy that can cause fabric fading. This rating has also been referred to as the Krochmann Damage Function. This rating better predicts fading potential than UV transmission alone. The lower the Damage Function rating, the less transmission of short-wave energy through the glass that can potentially cause fabric fading. Fabric type is also a key component of fading potential. 7) Percent relative humidity before condensation occurs at the center of glass, taken using center of glass temperature. 8) Inside glass surface temperatures are taken at the center of glass.

• This data is accurate as of November 2022. Due to ongoing product changes, updated test results or new industry standards, this data may change over time. Contact your Andersen supplier for current performance information or upgrade options.

• Contact your Andersen supplier for center of glass performance data on windows with patterned glass, tempered glass and products ordered with capillary breather tubes.