

100 SERIES PRODUCT PERFORMANCE



Center of Glass Performance Data

For current performance information, please visit andersenwindows.com.

Andersen® 100 Series Product	VT ¹	SC ²	SHGC ³	RHG ⁴	Fading		%RH @ center ⁷	IGST ⁸
					Tuv ⁵	Tdw ⁶		
Low-E								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	72%	0.48	0.41	98	16%	33%	61%	56°F
Picture and Specialty Windows – Flush Fin Frame	72%	0.48	0.41	98	16%	33%	61%	56°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	72%	0.47	0.41	98	16%	33%	60%	55°F
Gliding Patio Doors	72%	0.47	0.41	98	16%	33%	60%	55°F
Patio Door Sidelights and Transoms	72%	0.47	0.41	98	16%	33%	60%	55°F
Low-E With HeatLock® Technology								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	70%	0.47	0.41	96	16%	33%	44%	47°F
Picture and Specialty Windows – Flush Fin Frame	70%	0.47	0.41	96	16%	33%	44%	47°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	70%	0.47	0.40	95	16%	33%	44%	47°F
Gliding Patio Doors	70%	0.47	0.40	95	16%	33%	44%	47°F
Patio Door Sidelights and Transoms	70%	0.47	0.40	95	16%	33%	44%	47°F
Low-E SmartSun™								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	65%	0.31	0.27	66	5%	21%	62%	56°F
Picture and Specialty Windows – Flush Fin Frame	65%	0.31	0.27	66	5%	21%	62%	56°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	65%	0.31	0.27	65	5%	21%	61%	56°F
Gliding Patio Doors	65%	0.31	0.27	65	5%	21%	61%	56°F
Patio Door Sidelights and Transoms	65%	0.31	0.27	65	5%	21%	61%	56°F
Low-E SmartSun With HeatLock Technology								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	63%	0.31	0.27	64	5%	21%	46%	48°F
Picture and Specialty Windows – Flush Fin Frame	63%	0.31	0.27	64	5%	21%	46%	48°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	63%	0.31	0.27	63	5%	21%	44%	47°F
Gliding Patio Doors	63%	0.31	0.27	63	5%	21%	44%	47°F
Patio Door Sidelights and Transoms	63%	0.31	0.27	63	5%	21%	44%	47°F
Sun								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	40%	0.29	0.25	61	16%	24%	60%	55°F
Picture and Specialty Windows – Flush Fin Frame	40%	0.29	0.25	61	16%	24%	60%	55°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	40%	0.29	0.25	60	16%	24%	59%	55°F
Gliding Patio Doors	40%	0.29	0.25	60	16%	24%	59%	55°F
Patio Door Sidelights and Transoms	40%	0.29	0.25	60	16%	24%	59%	55°F
Low-E PassiveSun								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	79%	0.79	0.69	161	29%	42%	60%	55°F
Picture and Specialty Windows – Flush Fin Frame	79%	0.79	0.69	161	29%	42%	60%	55°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	79%	0.79	0.69	161	29%	42%	59%	55°F
Gliding Patio Doors	79%	0.79	0.69	161	29%	42%	59%	55°F
Patio Door Sidelights and Transoms	79%	0.79	0.69	161	29%	42%	59%	55°F
Low-E PassiveSun With HeatLock Technology								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	77%	0.72	0.62	146	27%	40%	42%	46°F
Picture and Specialty Windows – Flush Fin Frame	77%	0.72	0.62	146	27%	40%	42%	46°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	77%	0.72	0.63	146	27%	40%	42%	46°F
Gliding Patio Doors	77%	0.72	0.63	146	27%	40%	42%	46°F
Patio Door Sidelights and Transoms	77%	0.72	0.63	146	27%	40%	42%	46°F
Clear Dual-Pane								
Casement, Awning, Single-Hung, Gliding and Transom Windows (all frames types)	82%	0.89	0.78	186	58%	61%	39%	44°F
Picture and Specialty Windows – Flush Fin Frame	82%	0.89	0.78	186	58%	61%	39%	44°F
Picture and Specialty Windows – 1 3/8" Flange Setback, 1" Flange Setback, No Flange, Insert Frames	82%	0.89	0.78	186	58%	61%	39%	44°F
Gliding Patio Doors	82%	0.89	0.78	186	58%	61%	39%	44°F
Patio Door Sidelights and Transoms	82%	0.89	0.78	186	58%	61%	39%	44°F

* 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 lite 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 2023. 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.

* Windows with flush fin frame are available in select Southwestern states including Arizona, California, Nevada, New Mexico and Utah. Limited configuration availability. See your Andersen supplier for more information.