

## SMARTSCREEN SOLAR TECHNICAL SPECIFICATIONS

### GENERAL

SmartScreen Solar self-tinting, thermochromic solar glass panels have many cost-saving benefits when used as fenestration, entry doors, and curtain walls.



Some of the benefits of using SmartScreen Solar glass panels are:

- No wiring, no electrical input required
- Variable light and heat control by automatic heat sensing
- Significant reduction in peak cooling loads
- 99% UV protection
- Energy savings
- Insulated Glass Unit (IGU) construction provides increased resistance to condensation, thermal efficiency
- **Green Building, LEED Contributor**
- No moving parts
- Silent operation
- Allows designs to have increased daylighting
- Glare Reduction with Unobstructed Views
- Can eliminate Need for Blinds or Shades
- Can be retrofitted onto existing windows or frames
- Privacy features available
- Increased building insulation performance
- Better quality of health and comfort for building occupants

SmartScreen Solar glass panels save you energy while providing comfortable, convenient heat and glare reduction.

The adaptive interlayer in the laminated portion of the unit responds to solar heat. As the glass is heated by sunlight, the glass tint will darken to attenuate the light and heat. As the glass cools, the tint will lighten and allow a clearer view.

### SMARTSCREEN SOLAR CHARACTERISTICS

SmartScreen Solar IGUs use the latest technologies available to provide superb energy efficiency and optical quality, while adding the benefit of a self-tinting capability. Following are details about the Solar unit:

<b>Maximum Unit Size</b>	50 sq.ft.
<b>Light Transmission Range</b>	6% to 60% VLT (Dependent on Low-e Ply and Color Used)
<b>Thermal Efficiency</b>	Clear: 60%VLT/SHGC .37 Tint: 13%VLT/SHGC .17
<b>Glazing Configurations</b>	Standard 1" Double IGU Triple IGU Available; Can be used in Vertical and Sloped Applications
<b>IGU Makeup</b>	Outer: Tempered Inner: HS, Tinted, Laminated
<b>Insulation</b>	Warm-Edge Technology, Argon Fill
<b>Framing Compatibility</b>	Wood, Metal, Vinyl, Fiberglass
<b>Life Expectancy</b>	Over 20 Years

### CERTIFICATIONS

Solar units are compliant with the ASTM E2141-06 durability standard and have been independently tested by NREL, LBNL, ATI (impact testing), and CPSC.

Switchable privacy, fire-rated, silkscreened, other glass types and etched features are also available at additional cost.

### WARRANTY

10-year limited warranties apply depending on application and specification. Contact us for details.

