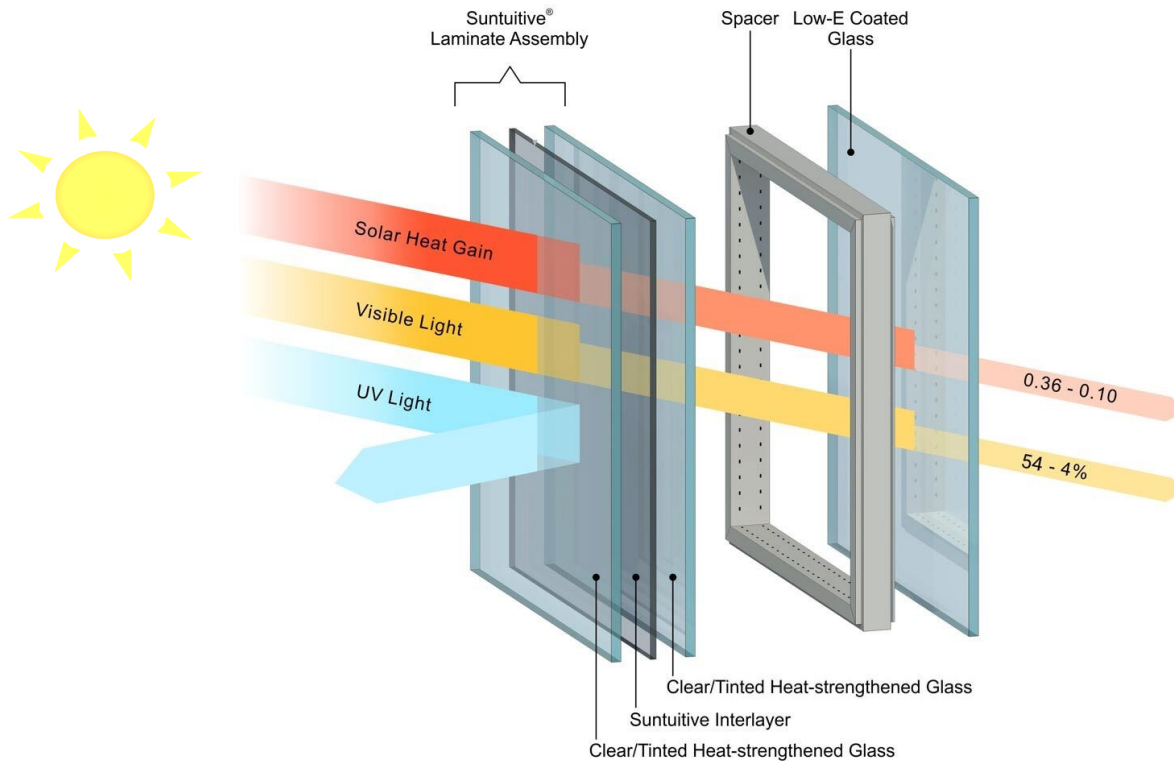


SUNTUITIVE

dynamic glass

Technical Information

Typical Vertical Construction



Visit: www.suntuitiveglass.com

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glass
magazine
awards
winner

BUILD
2018 Award
Winner



Suntuitive Glass
60%-4% visible light transmission*
Dynamic Tint

Traditional Glass
Fixed visible light transmission
Fixed Tint

*Depending on glass tint and low-e used

ABOUT SUNTUITIVE[®] DYNAMIC GLASS

Suntuitive Dynamic Glass, lightens and darkens by itself – with absolutely no mechanical or electrical intervention – based on heat from direct sunlight through thermochromic technology. The more direct and intense the sunlight is on the glass the darker it will become. The system maximizes natural daylight while minimizing solar heat gain.

- No wires
- No controls
- No power supplies
- No maintenance

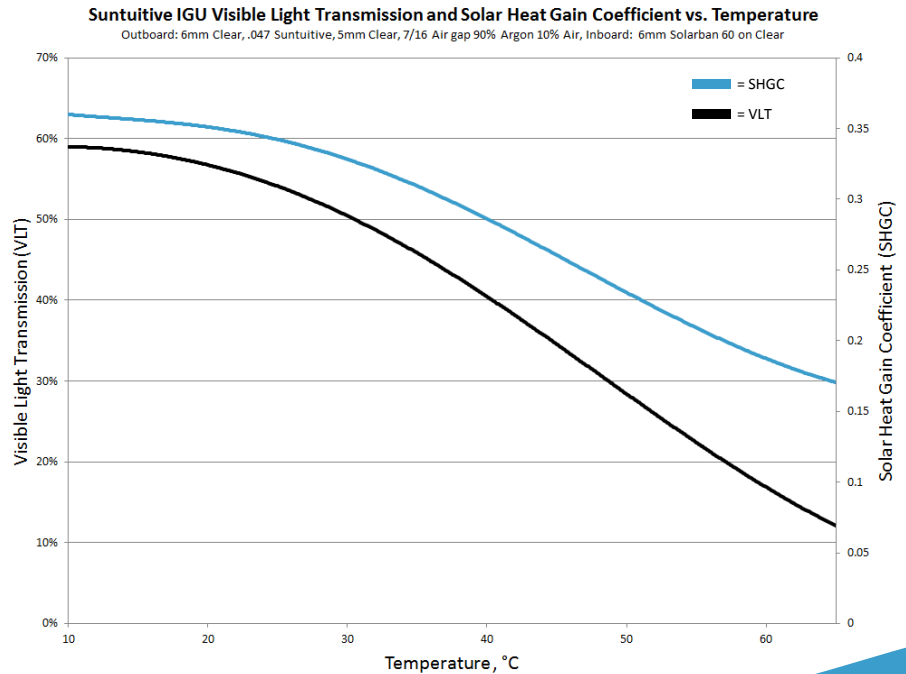
As part of a dynamic window system, Suntuitive glass can help manage a building's changing needs for passive solar heat gain and natural daylight. All together this can lower costs associated with heating, air conditioning and artificial lighting. Suntuitive glass also provides all of the benefits of safety laminated glass. Suntuitive glass puts the view back in windows again by reducing the need for shades, blinds and other devices that block your view.

With Suntuitive glass, architects, building owners, building professionals and home owners can specify an adaptive glass system that transitions seamlessly between light and dark throughout the day, every day of the year. Simply put, Suntuitive glass is the next generation of glass technology and provides the ultimate in comfort and view.

QUICK FACTS

- Suntuitive works with thermochromic technology that continuously adjusts tint level in response to environmental conditions
- Suntuitive is incorporated into a laminate as part of an insulated glass unit, providing safety glass benefits
- Suntuitive glass passively adapts with the heat from the sun
- No wires, electricity or control systems required
- Interlayer thickness: 0.048 inches (1.22 mm)
- Installs like conventional glass units

PERFORMANCE



Installation:

Windows with Suntuitive glass install the same as any other typical window (or insulated glass unit)

Size:

Maximum width is 65". Maximum length depends on fabricator.

Modeling:

Data for Suntuitive interlayer is available in the International Glazing Database (IGDB)

National Fenestration Rating Council (NFRC) Ratings are available with Suntuitive interlayer

Durability & Testing:

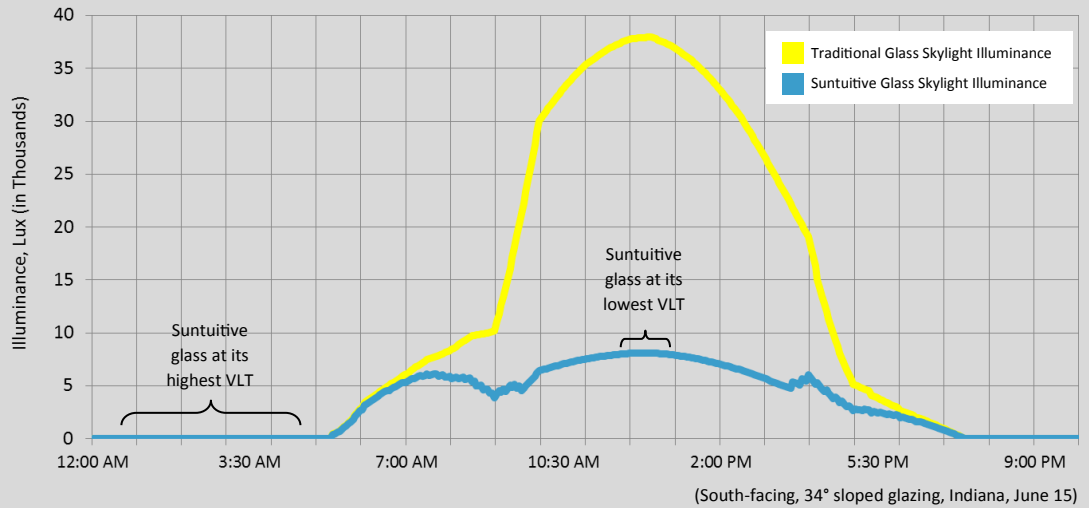
Pleotint is committed to long-term durability and in addition to continuous and vigorous internal testing, Suntuitive interlayer has:

- Completed 8,000 hours of accelerated aging testing under ASTM E2141-06
- Completed 2,500 hours of accelerated aging testing at the National Renewable Energy Laboratory (NREL) and QLab Corporation
- Completed independent testing at the Lawrence Berkeley National Laboratory (LBNL) and Architectural Testing, Inc (ATI)
- Passed Impact Test: CPSC 16 CFR 1201
- Passed research Hurricane D-missile impact and cycling tests (under certain configurations)
- Passed Forced Entry Test: UL972 (under certain configurations)
- Completed Acoustic Test: ASTM E90-09



DESIGN OPTIONS

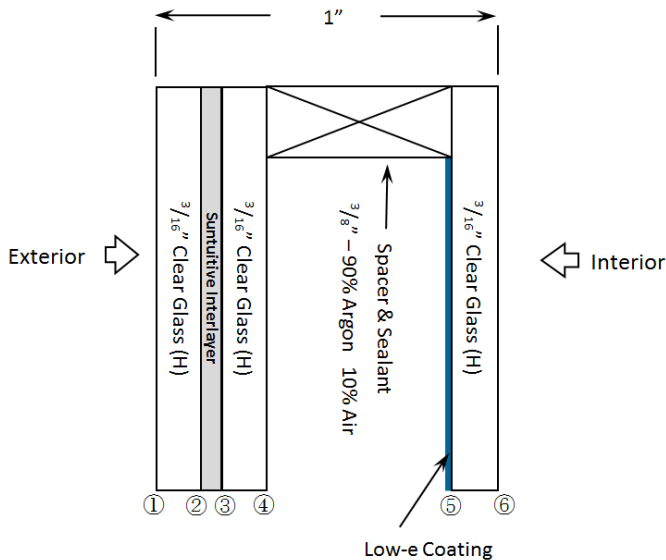
- Suntuitive glass can be used in retrofit, replacement and new construction in both commercial and residential applications
- Suntuitive glass can be used in vertical or sloped glazing
- Suntuitive glass can be curved or shaped
- Suntuitive glass can be combined with most tints of glass and paired with many different Low-e coatings



DAYLIGHTING

The graph above shows the amount of illuminance, or daylighting, entering through a traditional glass skylight (yellow) versus a Suntuitive glass skylight (blue) throughout the day. Suntuitive glass provides more consistent daylighting throughout the day and balances what would normally be a spike in illuminance that traditional glass lets in. During times of peak sun exposure, when Suntuitive glass will have its lowest visible light transmission, it is still letting in the highest amount of daylight.

HOW TO SPEC SUNTUITIVE® DYNAMICGLASS



Suntuitive interlayer is laminated between two pieces of heat strengthened or tempered glass and placed into an insulated glass unit (IGU) with a low emissivity coating. A warm edge spacer is also recommended.

- The construction on the left shows a typical 1" overall thickness IGU that is recommended
- Suntuitive glass can be used in IGUs with an overall thickness of 3/4" or greater
- Suntuitive glass can be used in standard laminate IGUs, double laminate IGUs, triple pane IGUs and in some applications monolithic Suntuitive glass can be appropriate
- Bid specification information available by request

HOW TO BUY

Suntuitive glass is available for most window manufacturer frames and framing options. Call or click today to discuss your project and we will connect you with a local representative or an authorized Suntuitive glass distributor.

CALL: 616.662.7216 or **CLICK: www.suntuitiveglass.com**

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dynamic glass

Suntuitive Glass Performance		Visible Light Transmission (VLT)		Solar Heat Gain Coefficient (SHGC)		Total Solar Transmission	
Exterior Tint	Low-e	Clear ↔ Tinted		Clear ↔ Tinted		Clear ↔ Tinted	
Low-Iron	2x Low-E	0.55	0.08	0.39	0.18	0.28	0.08
	3x Low-E	0.50	0.08	0.32	0.13	0.19	0.03
Clear	2x Low-E	0.54	0.08	0.37	0.17	0.25	0.07
	3x Low-E	0.49	0.07	0.31	0.13	0.18	0.03
Light Green	2x Low-E	0.45	0.07	0.28	0.13	0.18	0.04
	3x Low-E	0.41	0.06	0.26	0.11	0.14	0.02
Medium Gray	2x Low-E	0.38	0.06	0.29	0.15	0.18	0.05
	3x Low-E	0.35	0.05	0.25	0.12	0.13	0.02
Blue	2x Low-E	0.35	0.05	0.29	0.15	0.18	0.05
	3x Low-E	0.31	0.05	0.24	0.12	0.12	0.02
Bronze	2x Low-E	0.35	0.05	0.28	0.14	0.17	0.05
	3x Low-E	0.32	0.05	0.24	0.12	0.12	0.02
Gray	2x Low-E	0.30	0.05	0.25	0.13	0.15	0.04
	3x Low-E	0.27	0.04	0.22	0.11	0.10	0.02

- Clear values represent 5C and tinted values 65C
- Reflectance In is 0.10 (clear) and 0.09 (tinted).
- Reflectance Out is 0.10—0.06 (clear, varies with tint of glass) and 0.05 (tinted)

Please contact us for additional constructions and performance information.

CONTACT US TODAY

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