

SMART GLASS SYSTEMS, INC.

SMARTSCREEN™ SWITCHABLE PRIVACY GLASS TECHNICAL SPECIFICATIONS

GENERAL

Smart Glass Systems SmartScreen™ switchable privacy panel laminations have many useful benefits as storefront glazing, entry doors, interior partitioning, interior/exterior lighting effects, UV protection, and energy efficiency.



SmartScreen™ privacy panels also function as innovative projection screens. Holographic and high-resolution images are spectacular using this as rear-projection media.



Some of the benefits of using SmartScreen™ privacy panels are:

- Simple on/off or dimming operation by remote or wall switch
- **Direct 120VAC Connection - No ancillary transformers or power conditioners required for AC operation**
- Increased safety/security due to impact-resistant, laminated construction
- >99% UV protection, >65% Thermal Reflective
- 100% privacy
- Better clarity, lower haze than competing LC privacy panels
- Insulated Glass Unit (IGU) provides increased resistance to condensation
- Energy savings by solar control
- Superb noise attenuation – avg. >30 dB reduction
- Better quality of health and comfort for building occupants

SmartScreen™ laminated privacy panels can save you energy while allowing convenient light, privacy and glare control at your fingertips.

SMARTSCREEN™ CHARACTERISTICS

Smart Glass Systems' SmartScreen™ panels using switchable privacy film can be constructed with various substrates. 12 different colors other than white are available.

Laminated privacy lites use adhesive interlayers that provide structural strength and superb optical quality, while encapsulating the active layer of privacy film. Following are general characteristics about our laminations:

Specifications and technical details subject to change without notice. Lighting conditions will affect appearance of smart glass.

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Light Transmission Range	Off = ~8% On = ~ 80%
Viewing Angle	150 Degrees
Residual Haze	Approx. 3%
Laminating Material	Annealed, Chem / Heat-Strengthened, Tempered, Coated Glass (Low-E), Polycarbonate
Maximum Privacy Film Size	59" x 120"
Adhesive Interlayer Material	EVA, polyurethane
Structural Interlayer Material	PET, polycarbonate
Glazing Configurations	Single (others available)
Response	Rise: <0.1 sec., Decay; <2 sec.
Switching Durability	Over 3,000,000 times
Workable Temperature	-20 to +90 degrees C

CERTIFICATIONS

Smart Glass Systems' glazing combined with our special-purpose manual controls have been independently lab tested to comply with UL 8730-1 electrical standards.

The majority of Smart Glass Systems' laminates comply with 16 CFR 1201 Cat. II laminated glass standard requirements. Other standards may be specified.

Certain Smart Glass Systems laminates comply with SBCCI, Metro-Dade County Hurricane, and UL Bomb Blast/Bullet Resistant requirements. Please indicate if this is needed for your application.

Cylindrically curved glass construction, and purpose-built high-performance acoustic glass is available. Fire-rated, silkscreened and etched features are also available.

POWER CONSUMPTION AND CONTROL

Manual and automatic control systems are available. Automatic or photosensitive controllers will be quoted upon request. Smart Glass Systems panels are compatible with a variety of home automation systems.

Power Input	Direct 115 VAC (12/24VDC inputs available for limited sizes & will require extra components)
Power Consumption	~0.5 W / sq.ft. when switched clear 0 W / sq.ft. when opaque
Privacy Controllability	On = clearest state Off = diffused (frosted) state Dimming also available
Circuit Protection	Use standard protection and GFI per local electrical code

WARRANTY

Limited warranties apply to all laminations depending on application and specification. Contact us for details.