SKYLINE DESIGN
SWITCH GLASS™
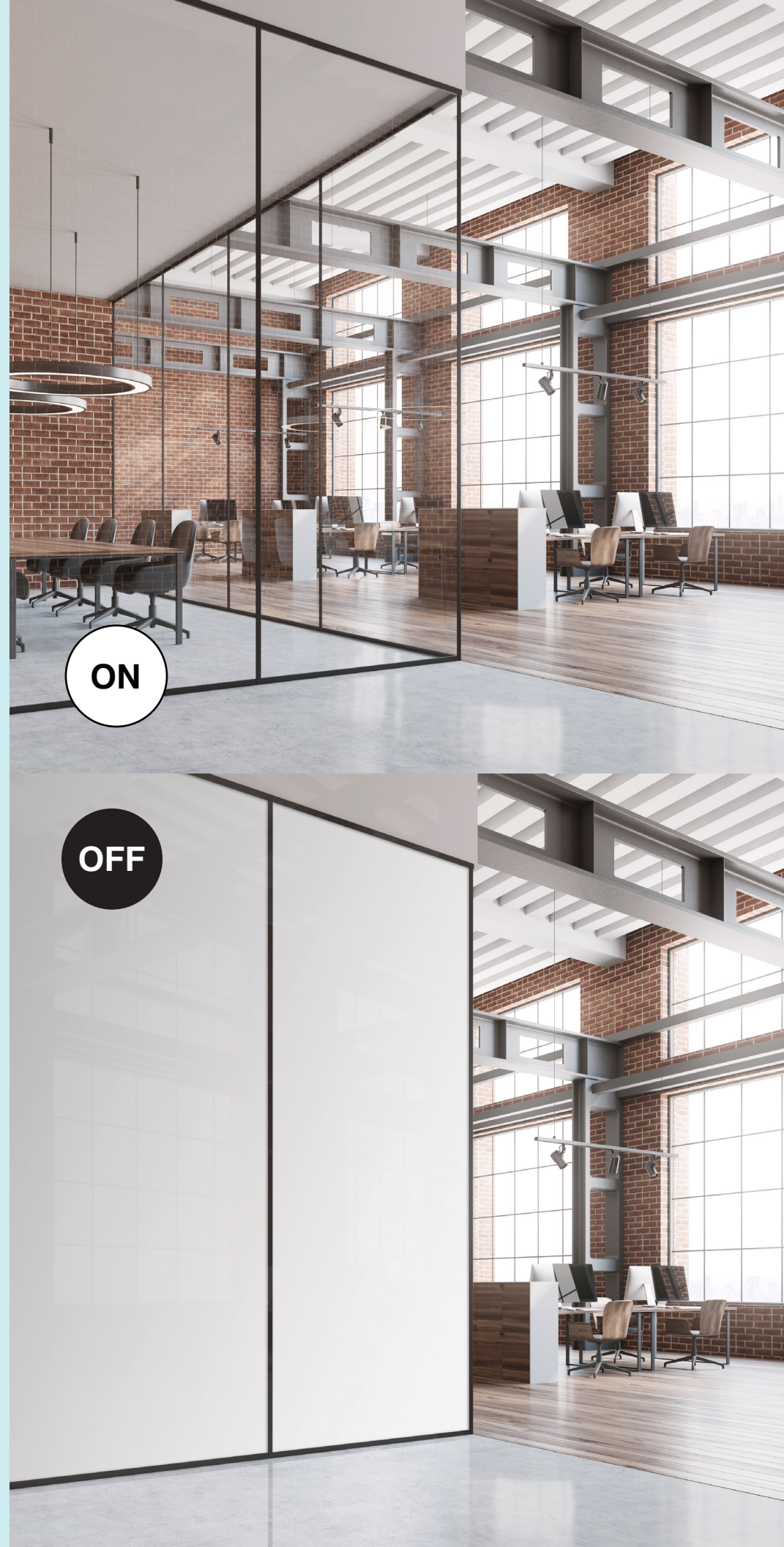
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PREMIUM SMART LAMINATED GLASS

With Skyline Design Switch Glass, you can have full privacy with the push of a button. Instantly switch the glass between transparent and translucent for on demand privacy when you need it. The perfect solution for interior glass walls in offices, hospitals, and retail spaces.

ON

OFF

Sustainably made in our Chicago factory

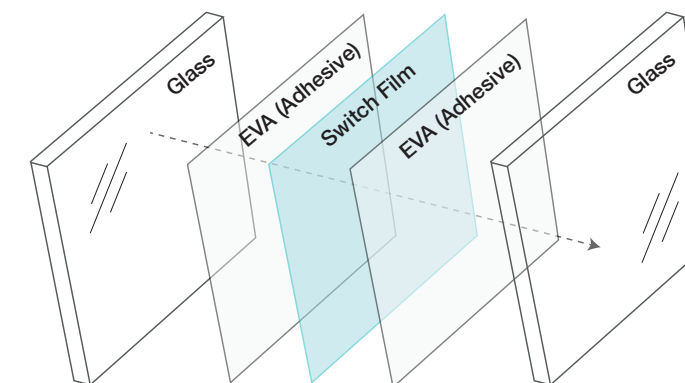Compatible with any type of glass up to 70" x 144"

Easily cleanable: Switch layer is inside the laminated glass

Benefits:

- full transparency or instant translucency for privacy, shading, thermal control, and transparent displays
- optimize space and create agile open or hybrid floor plans
- enhance occupant wellbeing with access to natural light and views
- flexibility to control the use and ambiance of a space instantly
- easy to clean pathogen-resistant solution that replaces traditional window treatments and privacy curtains
- contribute to sustainable design with reduced dependence on artificial lighting and HVAC load

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ON

OFF

DESIGN WITH FUNCTION AND FLEXIBILITY.

Glass

EVA (Adhesive)

Switch Film

EVA (Adhesive)

Glass

Contemporary architecture and interior design emphasizes minimalism, an abundance of natural light, well appropriated agile spaces and connection to the environment. Glass has become the material of choice to fulfill this modern design philosophy.

Combining both tradition and modernity, while meeting the evolving needs of builders, owners, and occupants, Skyline Design's Switch Glass made with Gauzy's LCG® technologies creates innovative solutions that set a new standard for high performance glazing in future facing facilities.
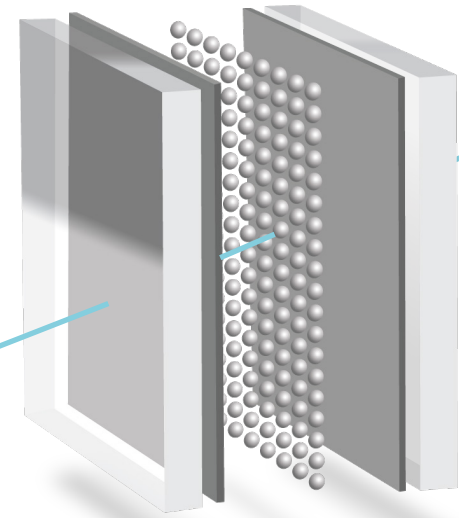
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HOW IT WORKS

Smart glass technologies change transparency and opacity with electrical supply to control various types of light. The unique particles or molecules inside our films scatter when off, blocking light and creating opacity. When on, particles or molecules align, allowing light to pass through and creating transparency.
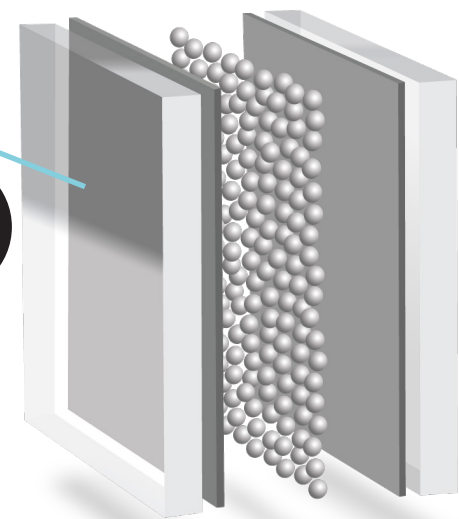
LIGHT

ON

particles or molecules align, allowing light to pass through and creating transparency.

OFF

particles or molecules scatter, blocking light and creating opacity.

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SWITCH TO PRIVATE IN 3 MILLISECONDS

ON   OFF

LAMINATED SWITCH GLASS SPECIFICATIONS

1. Glass
2. EVA Adhesive Interlayer
3. Switch Film Interlayer

Skyline Design's Switch Glass is versatile indoor grade product available in varying types and sizes, suitable for an array of applications. Paired with patented control hardware, specifying Skyline Design Switch Glass comes with the confidence of offering smart glass with high optical, mechanical, and electrical performance with lasting durability.

Proven to last over 18 million on/off cycles and upwards of 10,000 consecutive ON hours, Skyline Design's Switch Glass with Gauzy LCG technologies is the most reliable in the market.

Skyline Design's Switch Glass films are defined by the highest transparency with haze as low as 2.2%, millisecond switching times, and low energy consumption.
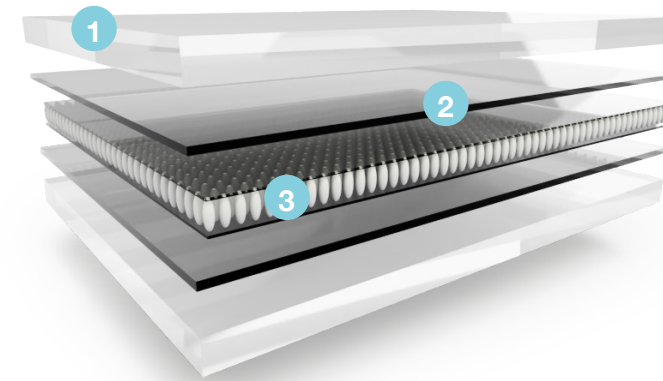
Skyline Design's Switch Glass goes from translucent to controlled levels of transparent in just 3 milliseconds.

Smart films are laminated into various types of glass for a unique space that suits both modern and future facing designs.

Controlling various types of light, paired with switchable features, Skyline Design Swith Glass supports:

- instant privacy or an open atmosphere
- solar IR reflection for temperature control
- displays that turn transparent when paired with projection

1. Optical Performance measured using square wave signals provided by Gauzy Controllers

2. Haze tested on 'haze-gard i', by BYK. Laminated with PVB. Haze may vary based on interlayer. Results reported for Indoor at 25°C; HT at 80°C.

3. Film thickness may vary

Specifications:

	Light		Dark	
Film Optical Perfomance				
Attribute	OFF	ON [1]	OFF	ON [1]
Parallel Light Transmittance	4%	78%	3.50%	46%
(VLT (Total Transmittance	65%	80%	37%	49%
Haze (ON) [2]	2.5%		2.7%	
Color Grade	L* = 84		L* = 64.04	
	a* = 0.5		a* = -1.74	
	b* = 6.5		b* = -3.27	
Film Technical Properties				
Switching Time	3ms			
Lifecycle	+ Million 18			
Operating Temperature	-20°C to +70°C			
Power Consumption	1-3W/m2			
Film Thickness [3]	375µ			
Maximum Width(mm) [4]	1800		1500	
Cut-to-Fit	Sizes, Shapes, Busbar Position; Holes, Notches			
Glass Types	Annealed, Tempered, Clear, Low Iron/Ultra Clear			
Patterning Available	Yes			
Storage Conditions	-20°C to +60°C, <50% Humidity			
Grade	Indoor			
Electrical Performance				
Controller Types	Mini, Flex, Multiplex, Custom			
Operating Modes	Fade, ON/OFF, Dimming			

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PATENTED CONTROLLERS

Skyline Design Switch Glass uses patented controllers by Gauzy to provide the highest quality optical, mechanical, and electrical performance of LCG® laminated smart glass.
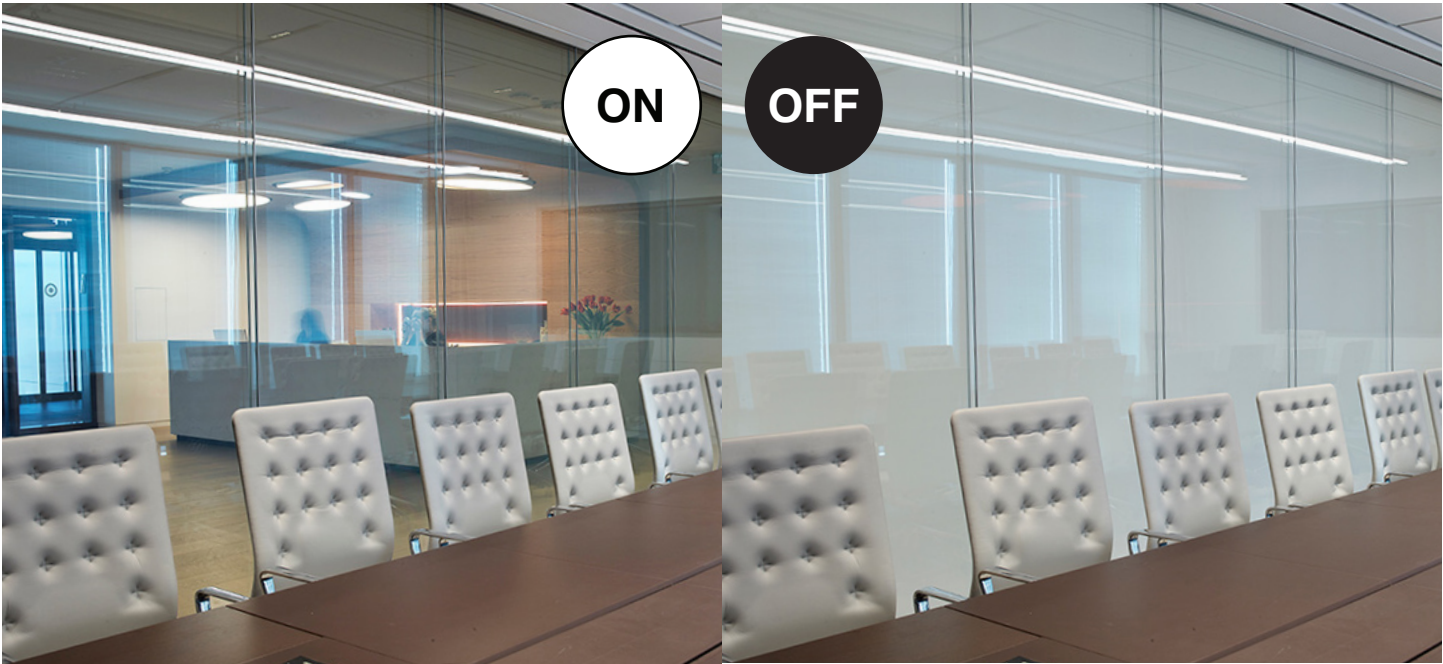
As the only smart glass controller in the market, it employs square wave signals, allowing films to stay on 24 hours a day with no burn in and ensure ultra high transparency. The patented controllers by Gauzy protect smart glass against power surges and extend the lifetime of smart glass and film.
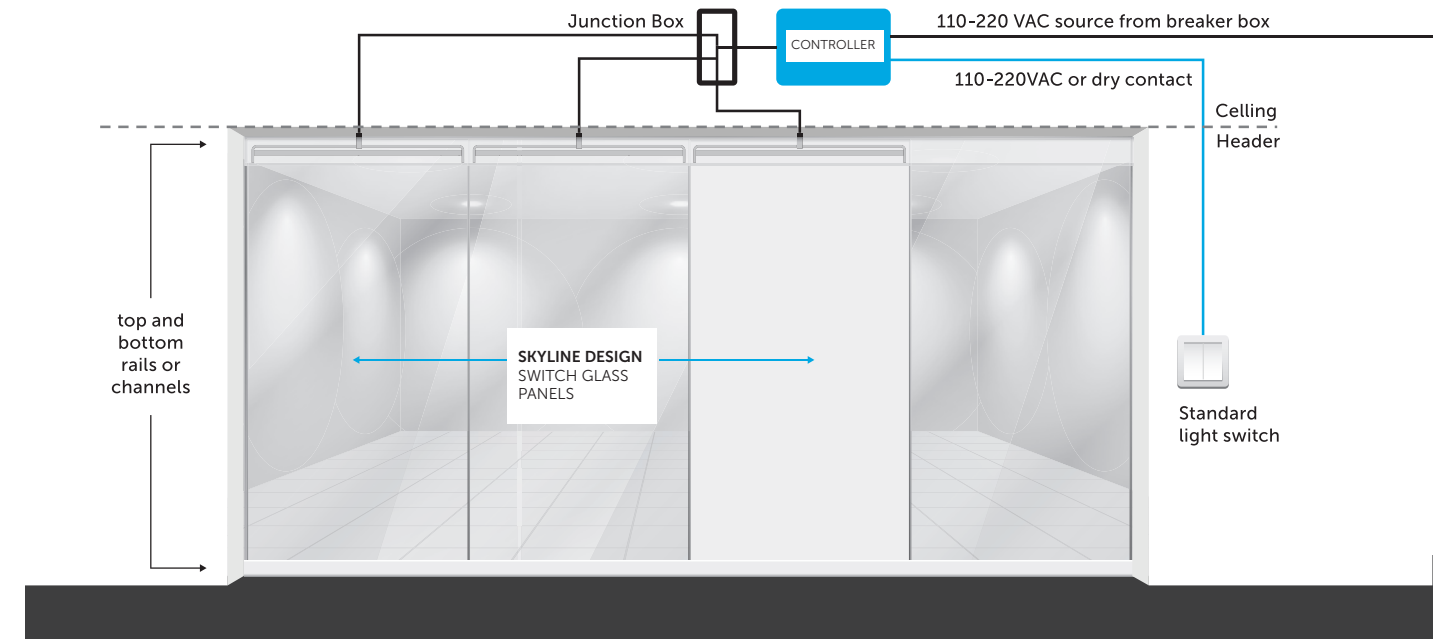
FEATURES:

- On, Off, Dimming, Fade transitions
- Small form factor and footprint for easy installation
- Large drive capacity
- Advanced protection features for better ROI
- Ultra-low voltage reduces up to 40% of power consumption
- WIFI/DMX/RS-485 compatible for easy connection to automation systems

Specifications:

	Mini	Flex	MultiPlex
			Electrical Performance
Universal Inupt	110/220VAC, 50/60Hz, 450mA	110/220VAC, 50/60Hz, 1360mA	110/220VAC, 50/60Hz, 1360mA
Output Voltage	42,48,70VAC Square wave, 25/30/32/50/60Hz, 600mA	42,48,70VAC Square wave, 25/30/32/50/60Hz, 1970mA	42,48,70VAC Square wave, 25/30/32/50/60Hz, 1970mA
(Supported LCG® Area (up to	4m² / 43ft²	10m² / 107ft²	10m² / 107ft²
(Dimensions (LxWxH) (mm	125x75x35	165x104x35	224x104x35
(Weight (controller only	44kg.	71kg.	94kg.
Wall Mounting	Built-in	Mounting Brackets	Mounting Brackets
Output Channel	1	1	to 32 1
Operating Configurations	On/Off, Fade	On/Off, Dimmer	On/Off, Blinds Fade
DMX	N/A	On/Off, Dimmer, Open Interface	DMX On/Off
COM	N/A	On/Off, Dimmer, Open Interface	On/Off, Fade
Cascade	N/A	0-10VDC	N/A

ON

Junction Box · CONTROLLER · 110-220 VAC source from breaker box

110-220VAC or dry contact

Celling Header

top and bottom rails or channels

SKYLINE DESIGN SWITCH GLASS PANELS

Standard light switch

EASILY INTEGRATABLE

OFF

Cut to fit and made to order according to specifications and special requests, Skyline Design Switch Glass is available in varying sizes, with holes and notches to suit special hinges and handles that support wiring and control.

It is compatible with any off-the-shelf or custom wall, door, or partition system.

Compatible with:

- C, U, and T profiles
- Frameless butt glazed finishes
- Double glazed partitions with acoustic control
- Aluminum and wood modules
- Various types of doors & hinges (sliding, accordion, swing & other)

Controlled via:

- Wifi touch panels
- RF remotes
- Traditional wall switches
- Integration with popular systems including Google, Alexa, or custom programs

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COLOR & PATTERN

Skyline Design Switch Glass can be paired with pattern, imagery, and color. Combine the smart technology of switch glass with the beauty of printed or etched patterning on the glass.

CAPABILITIES:

- **Eco-etch** / Etched patterning on the glass surface
- **Digital Printing** / Full color printing inside the glass
- **Color Interlayer** / Vivid and neutral color options

PROJECTION

Skyline Design Switch Glass sets a new standard in digital displays, creating a multi functionality that brings the possibility for communication, connection, and entertainment to any glass surfaces around us.

Compatible with any type of projector, Skyline Design Switch Glass instantly turns windows and glass partitions into color rich dynamic HD displays that turn transparent. Enabling time and location based ads in retail, to vibrant and immersive screening surfaces in commercial or private spaces, AV and system integrators can create immersive and memorable experiences.

HOTELS

APPLICATIONS

Convention halls, Retail store fronts, Business centers, Glass elevators, Skylights and Atriums, Bathroom enclosures, Partitions between sleeping and common areas, Lobbies, Spas, Gyms

BENEFITS

- Reduce HVAC costs

- Create light filled rooms that feel more spacious

- Gain valuable space with low profile glass partitions

- Maintain sleek designs without bulky shades and curtains

- Pair with projection to leverage advertising & communication

- Add patterning for a design unique to a hotel's theme

- Creates a modern and memorable design upgrade

Building and designing spaces that appeal to different types of travelers relies on selecting materials that emphasize the most highly valued elements of a stay including comfort, cleanliness, and a quality in room experience.

Complimenting diverse design directions, Skyline Design provides a modern and sophisticated shading and privacy solution that contributes to creating a memorable experience. Eliminating the need for fabric curtains that are costly and laborious to properly clean, hotel operators bottom line and operations benefit from utilizing easy to clean Switch Glass in interiors and facades. It provides secure privacy for enhanced comfort in a public space, a highly valued benefit when guests pay premium price for a scenic room.

RETAIL

APPLICATIONS

Storefronts, In-store displays, Dressing rooms, Check-out and register areas, Corporate offices, Confidential spaces, Visual merchandising

BENEFITS

- Instantly capture shoppers with vibrant advertisements

- Allow shoppers to see products and atmosphere inside your store when transparent

- Custom shapes and sizes of glass

Visual merchandising with smart glass creates new opportunities to excite and capture shoppers. Paired with projection, Skyline Design Switch Glass allows retail stores to make the most of valuable storefront windows to capture audiences' attention.

Digital signage welcomes a new era of displays, removing the need for traditional signage. With a one time investment, it creates a versatile display with instantly switchable content that can be rolled out globally for consistent messaging.

OFFICES

APPLICATIONS

Conference rooms, Executive suites, Private offices, Welcome areas, Lobbies, Desk dividers

BENEFITS

- Spaces that can shift instantly for employee preferences

- Privacy or transparency within open concept offices

- White board or projection screen use when translucent

- Gain valuable space with use of glass partitions

- A high-tech design upgrade for modern businesses

- Easy to clean privacy solution

Support spatial agility in open or hybrid floorplans by enabling glass to switch from translucent to transparent to create on-demand privacy or an open atmosphere supporting employee wellbeing and preferences for a dynamic work environment that promotes productivity.

Access to natural light and views is proven to increase mental function, memory, and productivity by up to 25%. Creating a space that is comfortable for employees results in higher levels of in-office satisfaction. Depending on the scenario, teams may prefer to work in a private space for focused concentration, or in an open and transparent environment for collaborative brainstorming.

HOSPITALS

APPLICATIONS

Patient rooms, Corridor facing rooms, ICU, Neonatal facilities, Corporate offices and conference rooms, Waiting areas & Lobbies, Isolation units
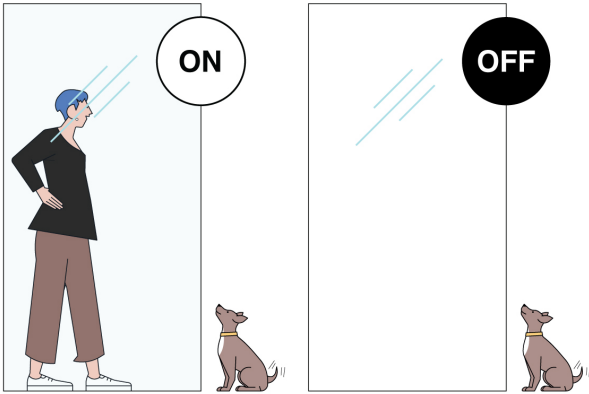
BENEFITS

- Easy to clean and sterilize

- Eliminate fabric curtains that spread HAIs

- Monitor patients without entering a room

- Access to light for increased wellbeing

- Sound reduction and safety with tempered glass

Safety standards in healthcare environments are constantly evolving. Innovative building designs and smart materials can help facilities adapt faster, better treat patients and ensure the safety of staff, patients, and visitors.

Eliminating the need for HAI harboring fabrics used for privacy and shading, Skyline Design Switch Glass supports light filled privacy, shade with a view, and sound isolation for greater comfort and enhanced wellbeing that contributes to faster healing. Controlled with motion sensors or from a central station, doctors and nurses can reduce the amount of interaction with touchable surfaces, and can easily check on patients with minimal disruption.

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WHY SPECIFY SKYLINE DESIGN SWITCH GLASS

Developed and manufactured with the philosophy that every molecule matters, our films exhibit the best optical, mechanical, and electrical performance in the industry.

Supported by a global distribution network of specially trained and certified glass fabrication and film installation partners, choosing Skyline Design Switch Glass allows for a full spectrum of glass options.

Choosing Skyline Design Means:

- A broad range of reliable products
- Industry-defining performance
- Purchasing from a trusted and reliable manufacturer
- Dedicated and accessible account managers and customer support
- Aligning with a pioneering technology that is defining a new era in high performance glass