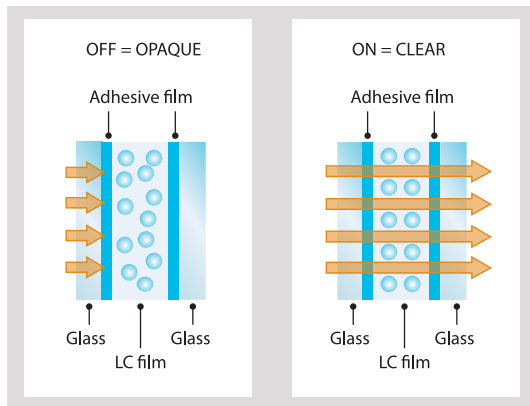


SWITCHABLE PRIVACY GLASS

FROM PUBLIC VIEW TO PRIVATE SPACE, WITH THE FLIP OF A SWITCH



HOW IT WORKS

Guardian Switchable Glass uses a low-voltage electrical current to arrange liquid crystal molecules into a pattern that makes glass transparent when turned on. Turned off, the LC molecules revert to a random pattern, diffusing the light and causing the glass to become opaque.

Guardian Switchable Privacy Glass transitions from

transparent clarity to serene privacy in a single click.

Turn the glass on to reveal clear, bright views. Turn it off, and a gentle opacity conceals all but the simplest of forms.

Privacy control. When Switchable Glass is turned on, a low-voltage current renders glass brilliantly clear, offering unobstructed views and welcoming abundant light. Flip a switch to turn off the electrical current, and in less than one second, the glass becomes an opaque screen, providing discreet privacy.

Extraordinary flexibility. Spaces become public, private, and public again, based on the need at hand. Bring privacy to exterior windows and interior walls in any number of settings... health care, retail, hospitality, office buildings, institutions. Combine Switchable Glass with Guardian performance coatings to add value and tailor your offerings to your customers' needs.

Dependable technology. Guardian Switchable Glass begins with our high-quality float glass, laminated with a liquid crystal film and PVB (polyvinyl butyral) or EVA (ethylene vinyl acetate) interlayer. Based on tried-and-true technology, Switchable Glass is ready for use in exterior window units and interior glass walls, windows, doors and more.

TECHNICAL INFORMATION

Ease of installation	Must be installed by a licensed electrician in accordance with all local electrical codes
Excellent clarity for transparent views when turned on	High visible light transmission: 75% High clarity: 93%
Opacity offers discreet privacy when turned off	Diffused light transmission: 70%
Offers protection to furnishings and fittings that could be damaged by ultraviolet light	99% UV blockage
Fast transition from clear to opaque	Less than 1 second
Save money and energy	Uses no power when in opaque state. Operating voltage for transparent state is 65 VAC. Energy consumption: 0.5 watts/ft ² (That's only 116 watts for a conference-room wall spanning 21 ft.)
Design flexibility	Expansive color and texture options Suited to use in numerous applications, such as interior walls and partitions, bath and shower enclosures, doors, windows and exteriors/façades Switchable Glass can be tempered, notched, drilled, bent and silkscreened
Real-world durability	Withstands temperatures from -10 C (14 F) to 70 C (158 F)
Meets safety requirements	Supports Safety Glazing Requirements as stated in ANSI Z97.1
Availability	Thicknesses: minimum thickness of 7 mm (two lites of 3 mm thickness laminated with PLDC interlayer) Dimensions: maximum sheet size of 65 in. x 144 in. (1.65 m x 3.6 m) Custom dimensions available Standard color: clear (on), white opaque (off) Substrates: Clear, UltraClear, tinted substrates, Standard Textures, Berman Glass editions
Combine with Guardian performance coatings to enhance your offering	In interior applications, combine with DiamondGuard for scratch resistance, ShowerGuard to protect against corrosion and staining, or Anti-Reflective Glass to control unwanted glare In exterior applications, use Switchable Glass as the inside pane, and combine with SunGuard or ClimaGuard low-emissivity coatings on the outside pane to improve thermal performance

APPLICATIONS

Interiors: Create versatile and striking public/private spaces with interior windows, doors, walls, partitions and railings in environments ranging from health care institutions, to corporate offices, to hotel lobbies and baths, retail centers and restaurants.

Exteriors: Protect against unwanted glare, brightness or visibility, while retaining flexibility for unobstructed views when desired.

Transportation: Design better experiences for travelers all over the world, with privacy control in airports, train and bus stations, aboard ships, planes and trains, and everywhere in between.



Switchable Privacy Glass is a featured product from Guardian InGlass, forward-thinking interior glass solutions. To learn more about the breadth of Guardian InGlass products and services, visit GuardianInGlass.com, a comprehensive glass resource for interior architects and designers, or call **855.58.GLASS** (855.584.5277).

Guardian Glass is a leading international manufacturer of float, value-added coated, and fabricated glass products and solutions for architectural, residential, interior, transportation and technical glass applications. To learn more, visit GuardianGlass.com.

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