

SWITCHABLE PRIVACY GLASS

CURVED SWITCHABLE PRIVACY GLASS is an electrical laminated glass product. The film interlayers we use are PDLC and PVB and these components are bonded together between two or more pieces of glass during a vacuum and heating process. For a more decorative effect we use coloured film or tinted glass.

Curved Switchable Privacy Glass Solutions



Benefits

Safety	Impact resistance is a feature of laminated glass. It will simply crack on impact, but still remain in its place and in one piece.
Acoustics	CURVED SWITCHABLE PRIVACY GLASS is a great option when sound proofing is a concern. Because of the nature of our PDLC film and its supporting PVB interlayers, our product already provides an excellent Rw rating of 38Rw for a 13.52mm panel of Switchable Privacy Glass. Thicker panes or triple-laminated panels can achieve even higher levels. Another option is to incorporate Switchglass panels into IGUs (Double Glazed Units).
Options	You control when you want privacy or transparency.
Security	Laminated glass does not shatter. Damage to it will just result in a very big spider-web pattern.
Shaping	The characteristics of laminated glass allow the bending and curving of SWITCHABLE PRIVACY GLASS.
UV Protection	The glass make-up of CURVED SWITCHABLE PRIVACY GLASS blocks out 99% of UV rays. Internal furnishings that are exposed to significant levels of sunlight will be protected from damaging ultra-violet light.

"SWITCHABLE PRIVACY GLASS is used in a variety of commercial and residential applications where privacy or transparency is electrically controlled."

Applications

Windows
Doors
Balustrade
Display Cabinets
Shopfronts
Partitions
Shower Screens
Splashbacks

Guidelines

Maximum Dimensions	1820mm x 3500mm
Glass Pane Thickness	6mm - 19mm
Standard Panel Thickness	13.52mm + Coloured Film Interlayers if required
Maximum Rise	500mm

Tolerances

Overall measurement	+/- 2mm over 1m
Twisting	+/- 3mm over 1m
Edge Flatness	+/- 2mm over 1m
Deviation of curve	+/- 2mm

NOTE: Due to the nature of PDLC Film there is a limit to the tightness of the curve.

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Technical Specifications – Curved Switchglass

Glass Colour	Can be combined with colour interlayers or a wide range of tinted glass to meet your project requirements
Decorative Glass	Screen printed, sand blasted, fritted and/or patterned
Glass Type	Low iron, annealed, heat strengthened, tempered/toughened (all laminated)
Thickness	From 13.52mm to multi-layer laminates
Size	Up to 1,820mm x 3,500mm – Switchglass has the largest size available on the market
Shape	Any shape, including holes, notches and cut-outs
Environmental	Storage: -20degC to 70degC Operation: -10degC to 60degC
Electrical	Driving Voltage: 65V AC (Transformer supplied) Current: 200mA per square metre Power: 5Watts per square metre
Switching Time	Approx 100 milliseconds at room temperature
Optical	Visual Light Transmission: Approx 75% to 80% (in 'on' state) Scattering Effectiveness: Approx 25mm
Life	Average of 25 years (indoors) with due care - bench tested at over 7,000,000 switches (on and off)

- Claim is supported by Manufacturer's testing data
- Warranty of up to 5 years on Switchable Privacy Glass panel (or as specified on quotation)
- To help preserve the longevity of its liquid crystals, Switchable Privacy Glass panel must have at least 4 to 5 hours in its "off" state during a 24 hour cycle and must not be left "on" continuously for over 20 hours at a time