



EXPERIENCE  
PRIVACY...



Asahi India Glass Ltd.



# AT THE SWITCH OF A BUTTON

Discover the ability to make your glass transparent or translucent in one solution, and experience the power to define your private moments.



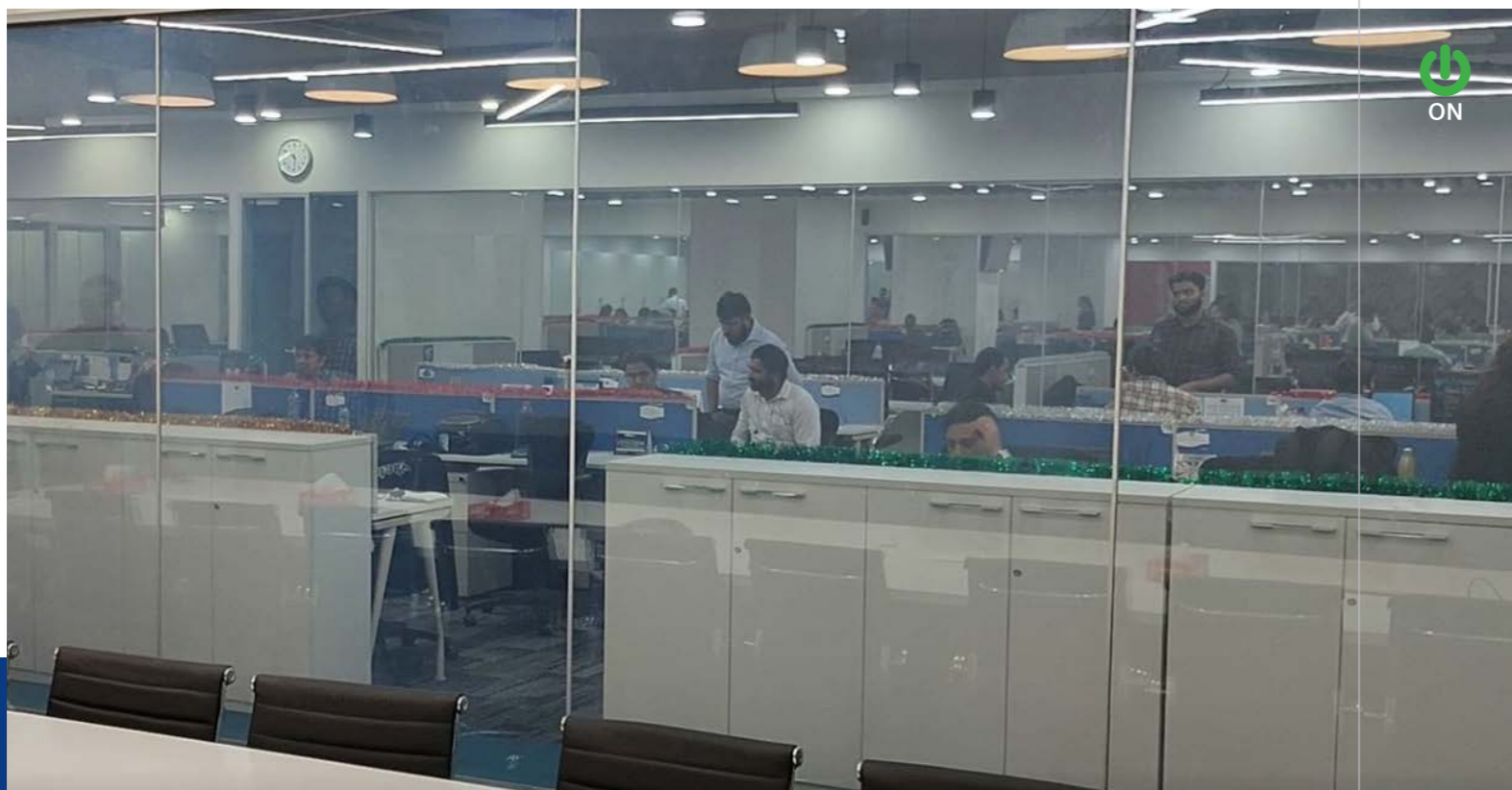
Asahi India Glass Ltd.



AIS Swytchglas — the revolutionary smart glass from AIS — is ideal for a wide variety of applications ranging from residences to corporate boardrooms and everywhere in-between. Now, experience effortless privacy at the switch of a button.

AIS Swytchglas to be used with laminated IGU combination





AIS Swytchglas to be used with laminated IGU combination

## WHY AIS SWYTCHGLAS?

With AIS Swytchglas, get two solutions in one glass. This cutting-edge glass gives you the power to choose to make your glass transparent or translucent at the simple click of a button. Experience easy accessibility of privacy only with AIS Swytchglas.

### KEY FEATURES OF AIS SWYTCHGLAS

- Made from extra clear glass
- Activates in less than 10 microseconds
- Available in a variety of colour tints
- Works with an electric switch or a remote control device
- Blocks harmful UV rays
- Works in temperatures ranging from -10°C to 50°C
- Blocks up to 50% light in the 'Off' mode
- Low power consumption
- Ensures safety as the interlayer behaves as a security film, resisting any kind of intrusion or impact
- Acoustic properties dampen outside noise
- Can be offered with Laminated IGU combination for exterior applications

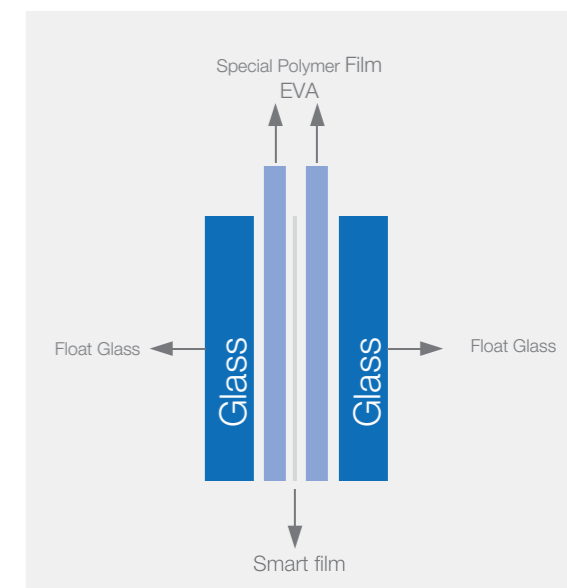




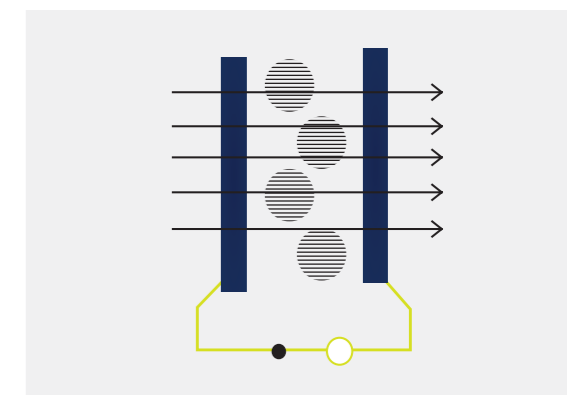
## HOW IT WORKS?

The principle behind AIS Swytchglas is the PDLC (Polymer Dispersed Liquid Crystal) technology that is very similar to the concept of an LCD display.

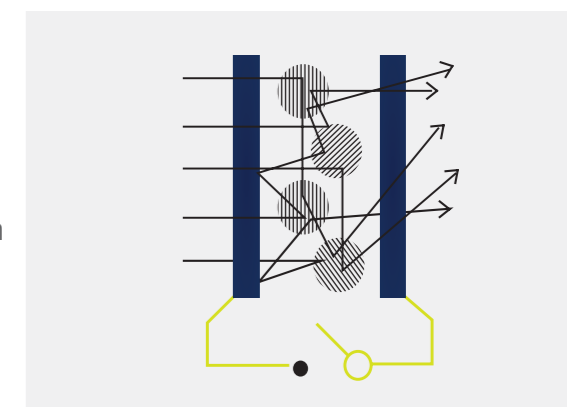
AIS Swytchglas is to be used with Laminated IGU combination. This smart glass solution is a combination of the parts that are illustrated alongside.



There is a smart film between the two special polymer films. This smart film is a suspension of liquid crystals in a polymer base that can be controlled using an electric charge. Under normal conditions, the liquid crystals are randomly distributed. When light hits the glass, it is scattered by the liquid crystals.



When an electric current is passed through the glass pane, the liquid crystals align themselves into straight lines allowing all the light to pass through without scattering.





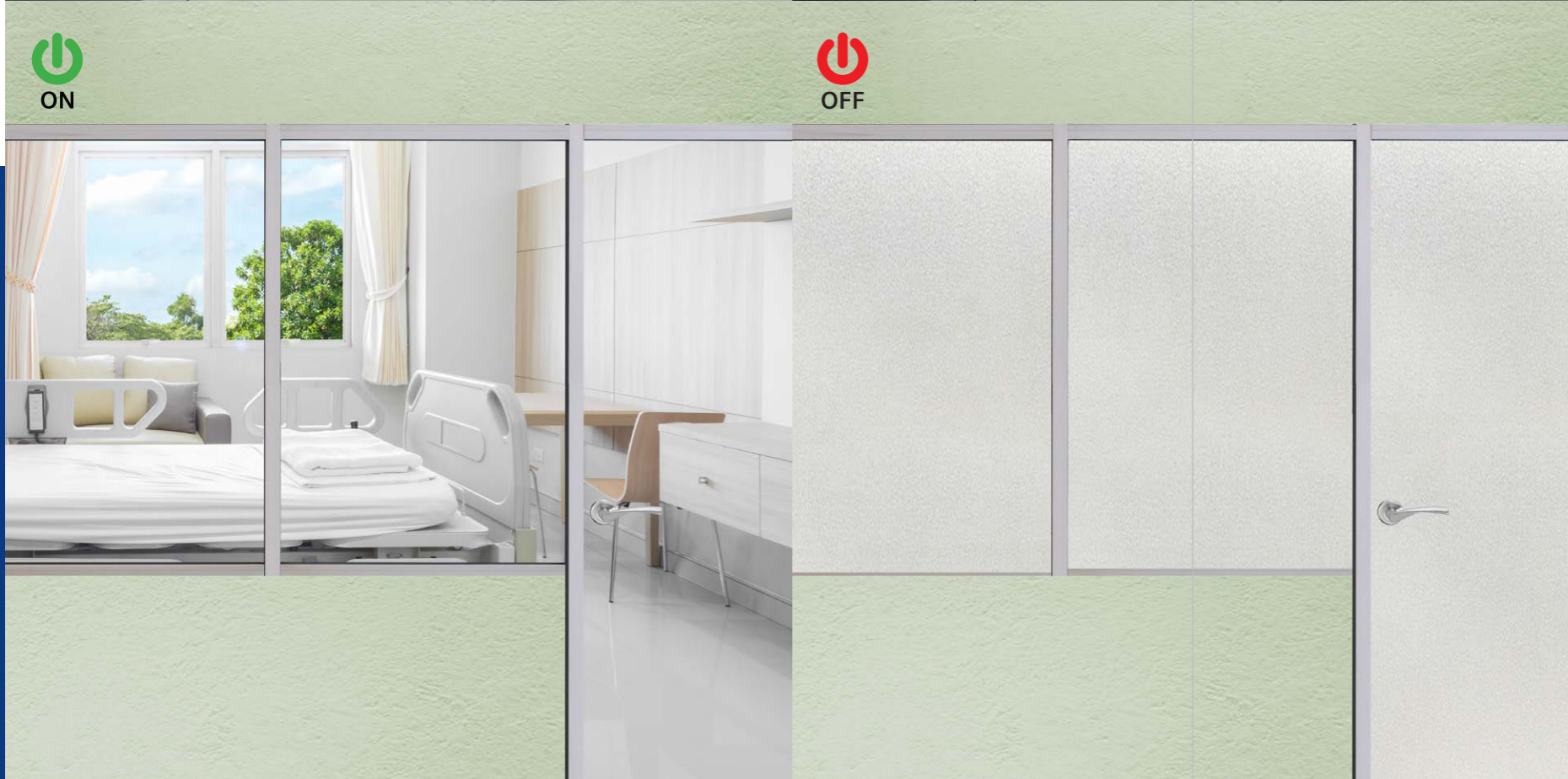
# AIS SWYTCHGLAS FOR COMMERCIAL SPACES

## Conference Rooms and Cabins

Making an impression on your customers or even your own team was never as easy. Switching from transparent to translucent at the flick of a switch was only seen in the movies. Now you can have it with AIS Swytchglas.

## Façade Glass and Windows

As a commercial building owner, you would know all too well that air-conditioning and lighting comprise the biggest overheads in the maintenance of commercial spaces. AIS Swytchglas can address this issue when it is used for façades or windows by preventing the sun's heat from getting in, thus saving power and bringing down costs substantively. So now, you don't have to shy away from having a brilliant glass façade for your office building or commercial complex!



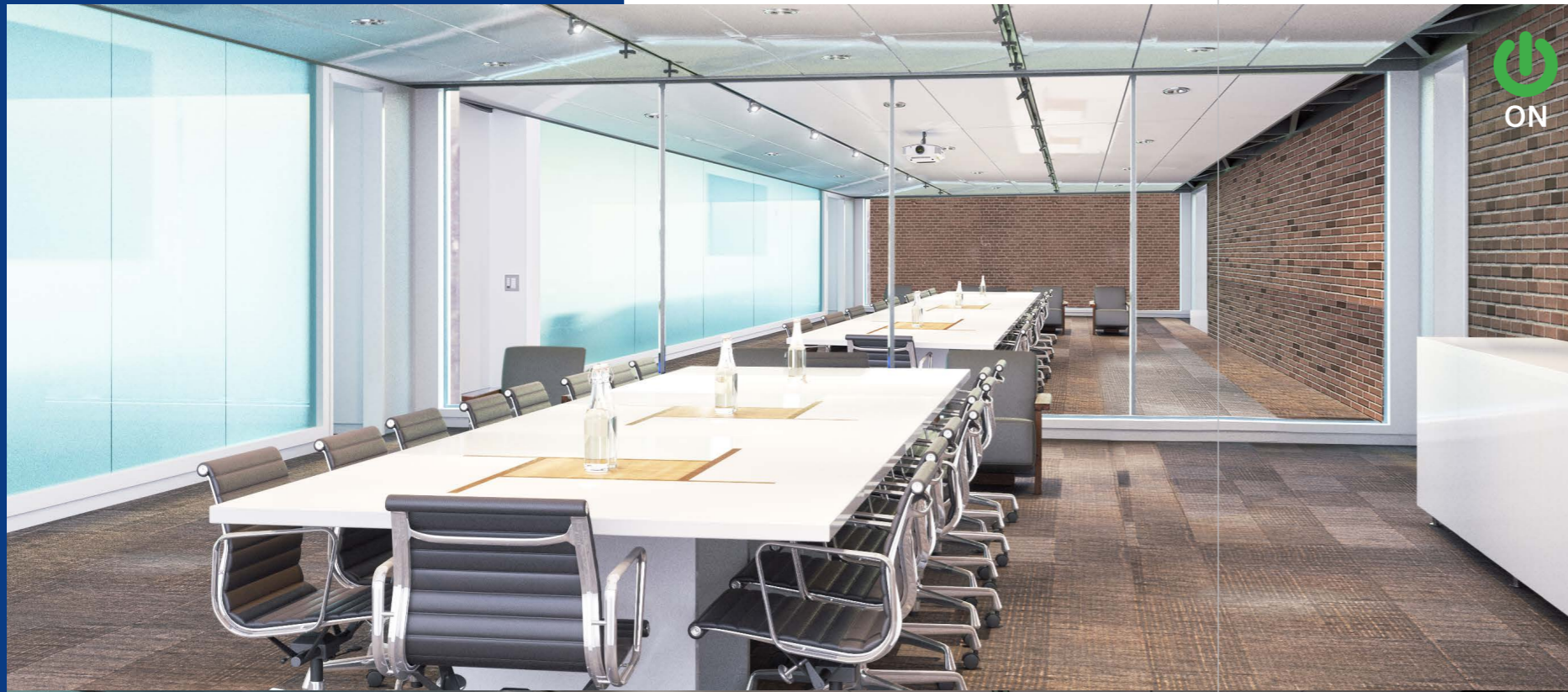
## Hospitals, Salons, and Spas

Selective privacy areas are crucial in many spaces. Have you been struggling here?

Blinds are cumbersome to use and curtains are not elegant. You need something smart. AIS Swytchglas panels replace blinds and curtains quite elegantly and efficiently, letting you choose between privacy and openness.

## Hospitality / Medical Facilities

AIS Swytchglas is also suited to the hospitality domain right from restaurants to pubs, bars and clubs, business centres, conference facilities, and also in medical/dental clinics. It can serve as a suave and high-tech replacement to traditional curtains, blinds, and opaque walls.



# AIS SWYTCHGLAS AS A PROJECTOR SCREEN

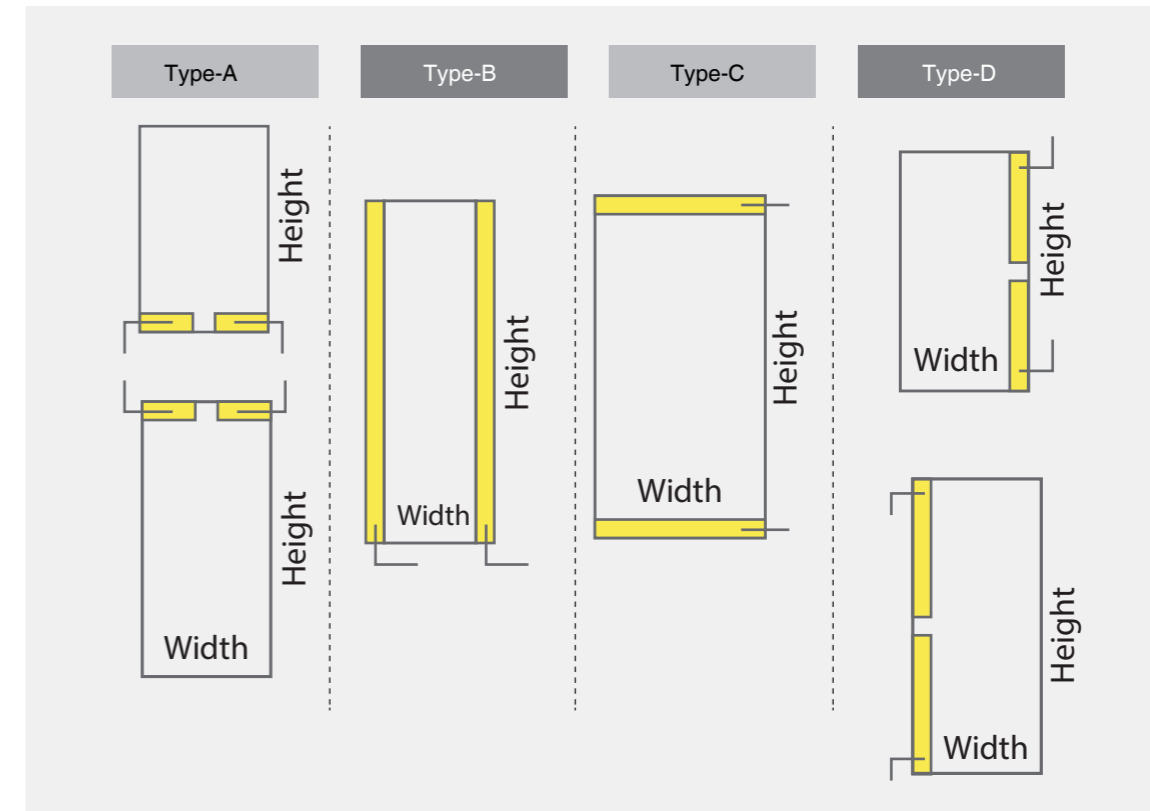
AIS Swytchglas can be used as projector screens on windows and walls. Not only can the glass be used for its basic function of enabling privacy as per the need of the hour, but also doubles up as a projector screen in the 'OFF' mode. It is in this setting that the glass becomes translucent thereby creating the ideal backdrop to project visual content.



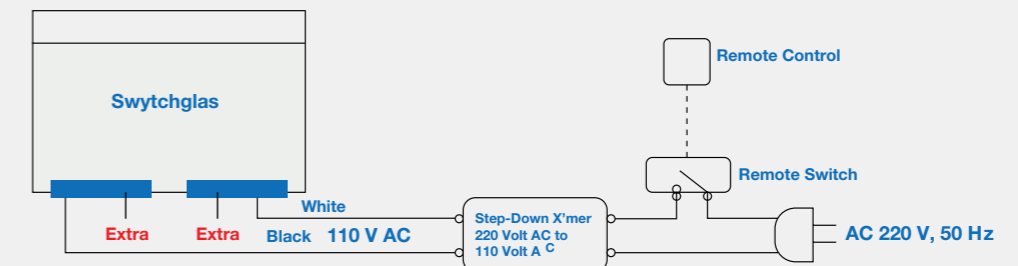
AIS Swytchglas to be used with laminated IGU combination

# HOW TO INSTALL\*?

Bus Bar location options for partitions/door layouts, and making AIS Swytchglas operational. AIS Swytchglas is to be used with Laminated IGU combination.



AIS Swytchglas wiring installation layout diagram\*\*



\*Please check with the sales representative of your area to check feasibility

\*\*For representation purpose only





OPTICAL REFERENCE	MODE	
	ON	OFF
Visible Light Transmission	77%	50%
Solar Factor	60.5%	42.6%
Haze (Level of Blur)	8.0 % ± 2.0%	98.6%
UV Blocking	98%	98%

ELECTRICAL OPERATION	MODE	
	ON	OFF
Visibility Through Glass Pane	Transparent	Translucent

ELECTRICAL REFERENCE		
Working Voltage	ON	65 V AC / 110 V AC (50 Hz)
Remote Control	ON / OFF	Working Range – 25 metres
Response Time	ON - OFF	Tr. 2 microseconds
	OFF - ON	Td. 10 microseconds
Power Consumption	ON	< 10 W/Sqm

	MIN.	MAX.
GLASS SIZE RANGE	300 mm x 300 mm	1,800 mm X 3,000 mm
TOTAL GLASS THICKNESS*	4 mm Extra Clear HS Glass + 1.52 EVA + PDLC Film + 1.52 EVA + 4 mm Extra Clear HS Glass	12 mm Extra Clear Annealed Glass + 1.52 EVA + PDLC Film + 1.52 EVA + 12 mm Extra Clear Annealed Glass

SHAPE	BLOCK SIZE, CUT SIZE
Hole/Cut-Out	Possible

\*AIS recommends the use of heat-strengthened glass for added safety in windows & partitions, and tempered glass for doors with holes & cut-outs.

## Precautions during Installation and Use

- Detailed analysis would be required if the application involves exposure of the glazing to temperatures below -10°C or exceeding 50°C
- Special care must be taken to ensure that there is ZERO pressure on the surface of the panel, over the moulding, and on the cables
- In order to avoid maintenance hassles, the power supply unit must remain accessible, even if located remotely
- A waterproof switch (as opposed to a standard switch) and a remote control is strongly suggested by AIS for better operation of Swytchglas
- The installation has to meet respective electrical regulations and must be performed only by trained technicians
- The glass must be turned off for a minimum of 4 hours after every 24 hours of usage
- Use Non-Acetic Sealant (Dow Corning 995 silicone structural sealant)

## Cutting and Drilling

Since AIS Swytchglas is delivered in the dimensions that they are ordered in, subsequent drilling or cutting is not possible without the risk of damage to the structure of the glass composite.

## Electrodes and Wires

The electrodes present in the glass can be positioned at the top, bottom, left, or right depending on the size of the glass pane and the application intended, while the wires that lead out can be drawn from the electrodes' central position.

## Warranty

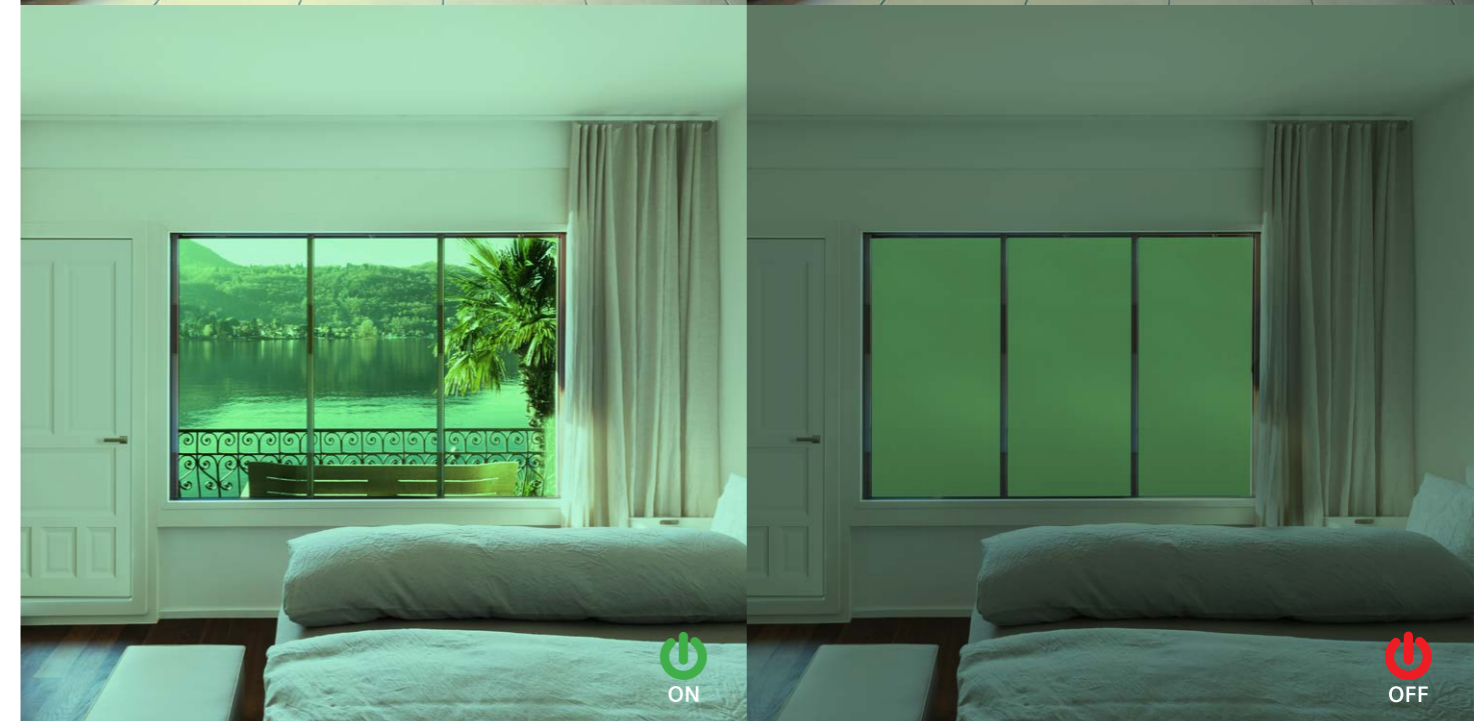
AIS offers a warranty of 3 years / 20,000 cycles\*, whichever is earlier. The warranty is valid as long as AIS installation and maintenance standards are followed.

\*One cycle means one time on/off.



# AIS SWYTCHGLAS NOW IN COLOURS

The revolutionary AIS Swytchglas is available in a variety of tints, crafted to meet your spaces' aesthetic needs. Enjoy transparency in the 'ON' mode and experience privacy in the 'OFF' mode — in the colour of your choice.



\*Colours mentioned are for representation purposes only. Please refer to the actual samples before making the final decision.

AIS is India's leading integrated glass company. Being a leader, AIS delivers top-of-the-line products and solutions through four Strategic Business Units (SBUs) of Automotive Glass, Architectural Glass, Consumer Glass, and Solar Glass. We use our glass product portfolio – which is the biggest in the country – to meet functional needs in an aesthetic and contemporary manner. With products that provide the next generation solutions, AIS brings new ideas to life – enabling an age of 'green buildings' and the dawn of a truly sustainable future. Taking the versatility of glass to the next level, AIS today has unmatched glass processing capabilities, including the processing of special glass products, that enables us to meet your every need, and fulfil every requirement. And help you realize your dream house in glass.





Asahi India Glass Ltd.

Unit No. 203 to 208, 'Tribhuvan Complex'  
Ishwar Nagar, Mathura Road, New Delhi - 110 065  
Tel: (011) 4945 4900, (022) 6565 2012  
(033) 2285 3201 / 02 / 03, (080) 2357 1663 / 64 / 65 / 66  
E-mail: [seemore@aisglass.com](mailto:seemore@aisglass.com) | [www.aisglass.com](http://www.aisglass.com)

Follow us on: [!\[\]\(dfbd6b3763a6d1d9afaa974f64e2e4b5\_img.jpg\)](#) [!\[\]\(b89ecf30df3dbaee65fa9f1829524a6e\_img.jpg\)](#) [!\[\]\(12caa8c16ee33cc266cee3a47dfba46b\_img.jpg\)](#) [!\[\]\(2137b87161c99f1e992a818823b2a5a3\_img.jpg\)](#) [!\[\]\(3d84f726b79adcadff3b69d67eb49b0f\_img.jpg\)](#)

  To experience glass like never before,  
download the **AIS** apps now!

