

THE SMART  
GLASS COMPANY

**Step into the future,  
with our smart glass solutions.**

## OUR COMPANY

At The Smart Glass Company, we are committed to establishing a benchmark in the industry by delivering innovative solutions to our customers that are unmatched in quality and affordability. We dedicate extensive hours to sourcing the finest materials globally to enhance the aesthetics of your space.

Our manufacturing facility in Chennai operates meticulously to ensure precision in our products and implement rigorous quality control processes to minimize the risk of product issues. We offer complete solutions, starting from the initial design phase through to on-site installation, delivered by our highly skilled teams. We are committed to introducing positive innovations in glass that will redefine people's view of utilizing glass surfaces in the future.



Innovative  
Solutions

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Unmatched  
Quality

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Affordability

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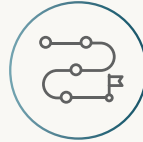
## OUR MISSION

To be the market leader in manufacturing technology enabled glass solutions at affordable pricing, to make glass multifunctional and enhance the overall customer experience.





## WHY CHOOSE US?



End to End  
Solutions



Optimize  
Your Space



Customisable  
Designs



Exceptional  
Durability



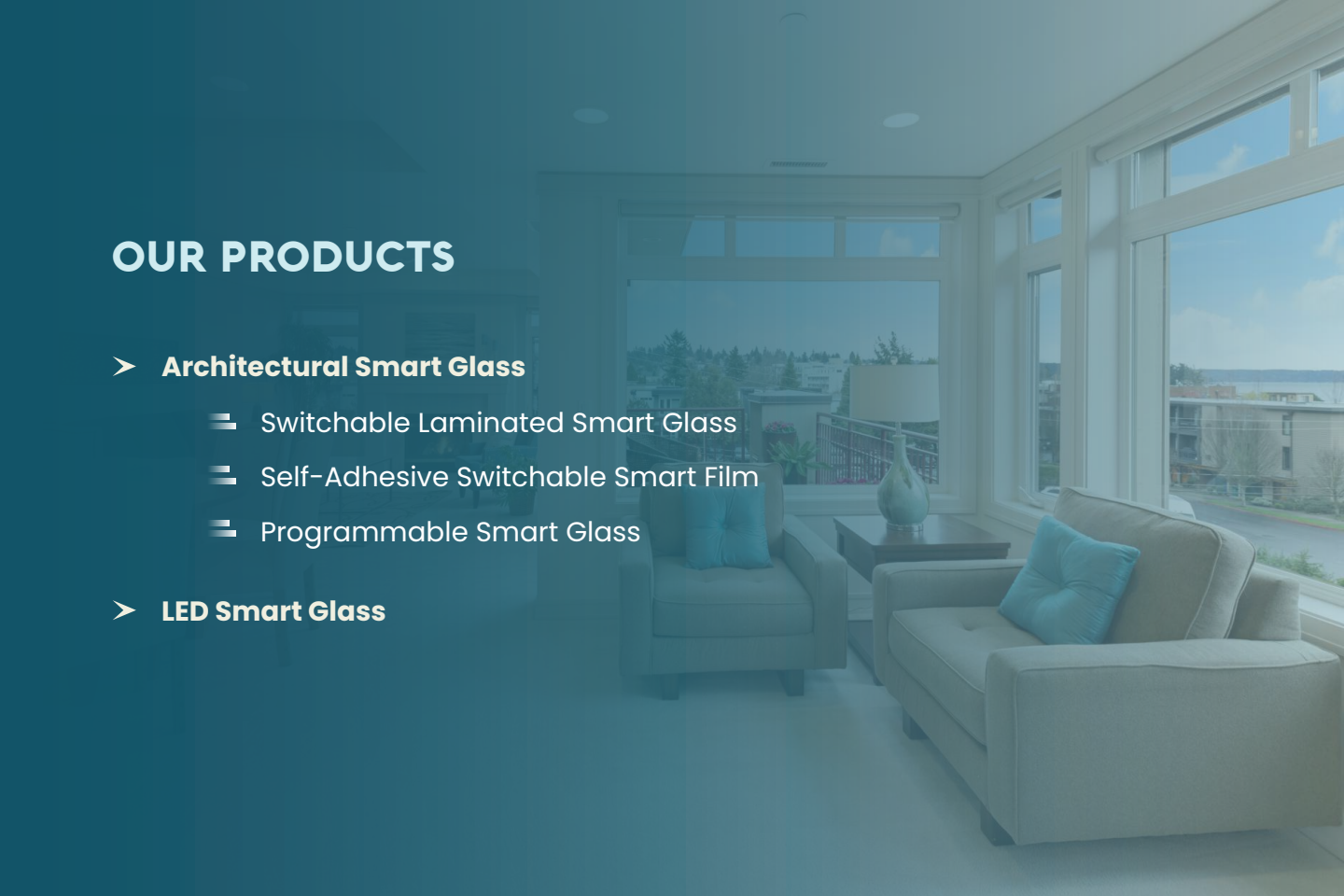
Dynamic  
Privacy

# OUR PRODUCTS

## ➤ Architectural Smart Glass

- ≡ Switchable Laminated Smart Glass
- ≡ Self-Adhesive Switchable Smart Film
- ≡ Programmable Smart Glass

## ➤ LED Smart Glass



# BENEFITS OF ARCHITECTURAL SMART GLASS

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**Privacy  
Control**



**Elevated User  
Experience**



**Energy  
Efficient**



**Easy to  
Maintain**



**Customisable  
Patterns**



01

**SWITCHABLE  
LAMINATED  
SMART GLASS**

ON



OFF



# SWITCHABLE LAMINATED SMART GLASS

The laminated smart glass is a concept in which liquid crystal and polymer between two sheets of conductive film are sandwiched between two layers of tempered glass in a EVA laminating machine.

When there is no power supply, the smart glass will be in privacy mode. When current is passed through the smart glass, the liquid polymer crystals align making way for light passage making the glass transparent.

## Key Specifications

- ▶ Transparency: 92%
- ▶ Ultra low haze: avg. 1.5%
- ▶ UV Blocking: >99%
- ▶ Minimal energy consumption: avg. 4w/m<sup>2</sup>
- ▶ Operating voltages: 48-60VAC
- ▶ On to Off switching times: 20ms
- ▶ Max width: 1.8m (5.9ft) wide
- ▶ Standard or custom shapes with holes, notches
- ▶ Glass types: Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, other
- ▶ Indoor and outdoor grades available
- ▶ Rolls or C2F sheets for professionals
- ▶ Compatible with PVB, EVA, TPU, SGP interlayers
- ▶ Custom laser-etched patterns





ON



OFF

02

**SELF-ADHESIVE  
SWITCHABLE  
SMART FILM**

## SELF-ADHESIVE SWITCHABLE SMART FILM

The self-adhesive smart film can be pasted on existing glass surfaces transforming normal glass to switchable smart glass. This film comprises liquid crystal and polymers between two sheets of conductive film.

Once the adhesive film is pasted on existing glass surfaces – when there is no power supply, the smart glass will be in privacy mode. When current is passed through the smart glass, the liquid polymer crystals align making way for light passage making the glass transparent.

### Key Specifications

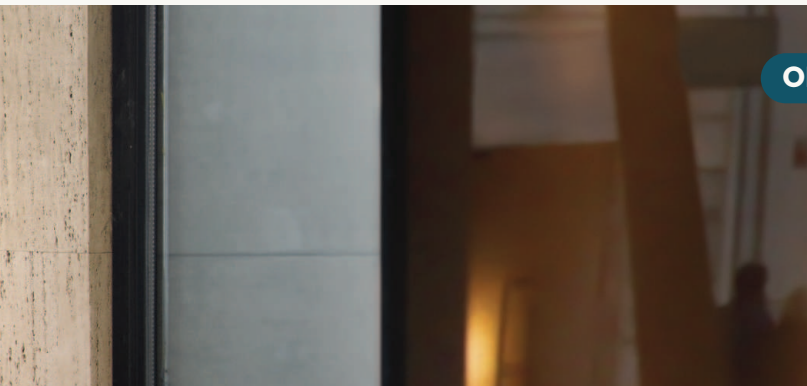
- ▶ Transparency: 92%
- ▶ Ultra low haze: **avg. 1.5%**
- ▶ UV Blocking: >99%
- ▶ Minimal energy consumption: **avg. 4w/m<sup>2</sup>**
- ▶ Operating voltages: 48-60VAC
- ▶ On to Off switching times: 20ms
- ▶ Max width: 1.8m (5.9ft) wide
- ▶ Standard or custom shapes with holes, notches
- ▶ Glass types: Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, other
- ▶ Indoor and outdoor grades available
- ▶ Rolls or C2F sheets for professionals
- ▶ Compatible with PVB, EVA, TPU, SGP interlayers
- ▶ Custom laser-etched patterns



ON

**03**

## **PROGRAMMABLE SMART GLASS**



OFF

# PROGRAMMABLE SMART GLASS

This concept allows us to program the alignment of liquid crystal polymers to desired shapes of your choice. The main application of this is to display company logos or images on the glass surfaces, enhancing the aesthetic appeal of your spaces. The glass surface can transition from opaque to transparent, showcasing the programmed shape, image or logo.

## Key Specifications

- ▶ Ultra low haze: avg. 2.5%
- ▶ UV Blocking: 99%
- ▶ Minimal energy consumption: avg. 3w/m<sup>2</sup>
- ▶ Operating voltages: 42-70VAC
- ▶ Switching times: 10ms
- ▶ Max width: 1.8m (5.9ft) wide
- ▶ Standard or custom shapes with holes, notches
- ▶ Glass types: Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, other
- ▶ Indoor and outdoor grades available
- ▶ Rolls or C2F sheets for professionals
- ▶ Compatible with PVB, EVA, TPU, SGP interlayers
- ▶ Custom laser-etched patterns



ON

04

LED SMART GLASS



OFF

## LED SMART GLASS

This technology transforms your glass surfaces into a platform to showcase your brand. You can display your brand videos on the glass surfaces to enhance your brand's presence and image.

The transparent LED Smart film has LEDs embedded on them as grids. This film is pasted to your existing glass surfaces which is connected to a controller to play the content of your choice. We have the options of P10, P8 and P6 to choose from based on your visual output requirements.

When turned off, the glass remains transparent, enabling customers to view your store from the outside. When turned on, you can display the content of your choice.

The primary benefit of this technology is the ability to expand your storefront without the need for LED screens, preserving space. This enables you to maintain a large, transparent storefront when desired, while transforming the entire facade into a visual screen to enhance your brand, making your glass surfaces multifunctional.



# BENEFITS OF **LED SMART GLASS**

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**Elevating  
Brand Appeal**



**High ROI**

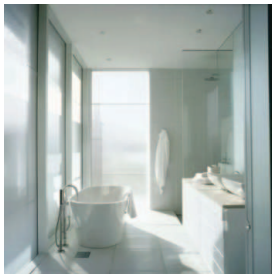


**Multifunctional  
Store Fronts**

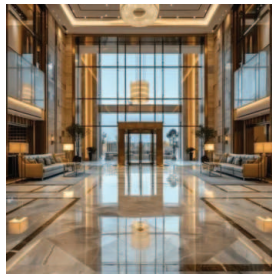


# MARQUEE INDUSTRIES FOR OUR SMART GLASS

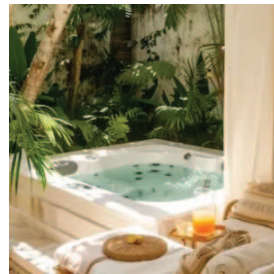
## HOSPITALITY



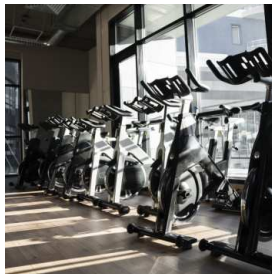
Bathroom Enclosures —



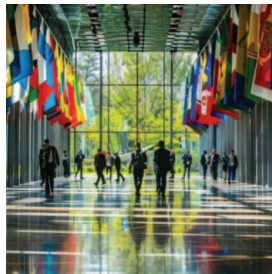
Lobbies —



Spas —



Gyms —



Convention Halls —



Business Centers —

# HEALTHCARE



Private Patient Rooms



Dividers in Shared Patient Rooms



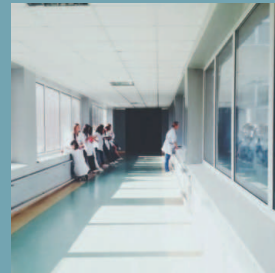
Corridor Facing Rooms



ICUs



Corporate Offices & Conference Rooms

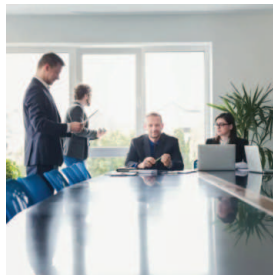


Waiting Areas

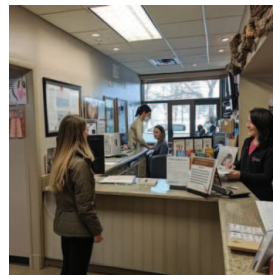
## BANKS



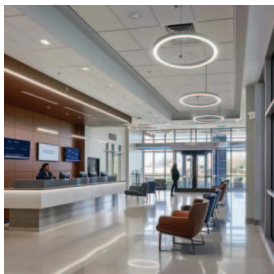
Private Offices for  
Client Consultations —



Meeting Rooms ———



Transaction  
Counters —————



Waiting Areas ———



ATM Vestibules ———



Corporate Offices &  
Conference Rooms —

## RETAIL SPACES



Storefronts —



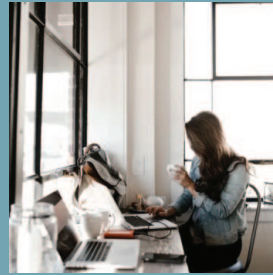
Dressing Rooms —



Product Rolls Outs —



One Time Events —



Corporate Offices —

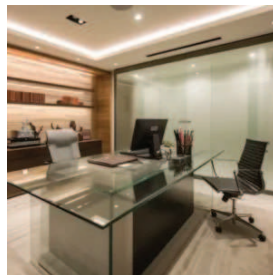


Confidential Spaces —

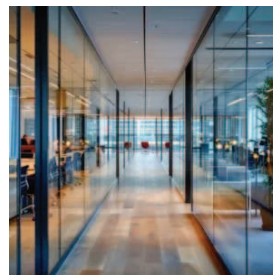
## OFFICE SPACES



Conference Rooms —



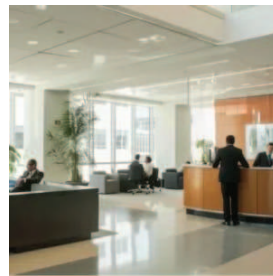
Private Offices —



Corridor Facing  
Offices —



Pods/Phone Booths —



Welcome Areas —



Work Bays/  
Desk Dividers —



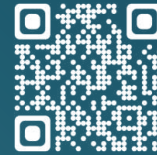
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