

Skypane

Future of Smart Glasses

How Does Smart Glass Work?

Smart Glass works by altering the amount of light transmitted through the glass so that it can appear transparent, translucent or opaque by utilizing a low-voltage electrical current that arranges molecules in a layer of liquid crystal (LC) particles or suspended particle devices (SPD). When the current is turned on, the liquid crystal molecules form a pattern that make the glass transparent allowing light to pass through. When it is turned off, those molecules return to a random pattern, causing the light to diffuse and the glass to become opaque. As a result, the glass changes appearance within a matter of seconds, instantly transforming a space from open to private.

Where is Smart Glass Used?

One of the most remarkable qualities of Smart Glass is its versatility: it can be used almost anywhere that ordinary glass is used. As Smart Glass technology continues to develop, so do its applications. This handbook will help you learn more about this groundbreaking product and the many ways in which it can be a valuable resource for your project, whether you're an architect, interior designer, general contractor or end user.

In this eBook, we will discuss the following Smart Glass applications:

- Windows
- Doors
- Bathroom Enclosures
- Skylights
- Projection Screens
- Office Partitions and Dividers
- Whiteboards
- Hospital Partitions and Surgery/Patient Rooms
- Retail Shop Windows and Advertising
- Home Offices



The Skypane[®] Difference

We've been delivering switchable glass solutions, for projects large and small, for more than 12 years. Unparalleled experience, world-class quality, and a specialist team – all to ensure you get the exact solution you need.



Unparalleled quality
The proven, established specialist.



Full technical assistance
From concept to installation.



Made-to-order
Exactly what you need.



Outreach
Mumbai, Pune, New Delhi, Gurgaon, Noida, Ahmedabad, Surat, Telangana, Karnataka and Chennai.



5-year Warranty
Our name on every unit.

Global capability

The Ultimate
Productivity Canvas

12

States in which you'll
find Skypane solutions.

2,50,000

Square feet of
smart glass
installed across
India, UAE and
Middle East

350+

Projects
delivered,
across India,
UAE and
Middle East.

50,000

Square feet
Specialist
production facility in
Mumbai



UNPARALLELED QUALITY

From the proven, established specialist.

✓ Process our own glass and craft each unit in our purpose-built facility.

✓ Premium materials, expert processing and rigorous quality control.

✓ Every aspect under our control so that we can deliver on our promises.

“ Skypane Smart Glass provided the ideal solution – excellent quality and perfect privacy at the flip of a switch.

Mr. Mahendra Mehta - Managing Director, Parle Global Technologies Ltd.

FULL TECHNICAL ASSISTANCE & SUPPORT

From concept to installation.

We deliver solutions – with the specialist guidance, support and back-up you need.

✓ No matter the location, complexity or scale of your project – we'll deliver the switchable glass solution you can trust.

“ Extremely proactive company, never fail to impress on design and delivery. Their flexible approach and acute attention to detail helps us deliver projects without compromise.

Mr. Amit Sheth. Managing Director, Focus Lighting and Fixtures Ltd.



DESIGNED & MADE-TO-ORDER

Exactly what you need.

We'll examine your project and guide the specification as needed.

We control the full process from start to finish and can easily tailor to your unique needs.

“ Skypane Smart Glass is an extraordinary partition system. A unique product that solves a wide range of design issues.

Gauri Shah. Founder - Facilis Architects.

Retrofit Privacy Smart Films

A unique solution to convert your existing glass partition to a smart glass partition



Retrofit smart film options

Custom Sizes

Maximum Sizes 1.5 x 3.6 meter.

Minimum Sizes 200mm x 200mm. Power Consumption 5Watts / m² 91% total light transmit terce.

2.5% Haze.

99.5% UV Block.

Switch speed : 0.5 seconds.

2 Year Warranty



Switchable privacy films for existing glass

Your existing glass can now be converted to a switchable privacy glass with our switchable self-adhesive films. These films have the same switchable properties as our laminated privacy glass and can be easily installed by our expert team.



Benefits

Save costs on costly glass replacements Skypane switchable films can be easily installed on existing glass surfaces saving you expensive glass replacement costs.

Get rid of unhygienic blinds The Vertical or horizontal blinds typically found in offices are not only difficult to clean but are also breeding grounds for bacteria, dust, and grime. Skypane switchable films allow you to have complete privacy without compromising on your aesthetics or cleanliness.

Privacy Smart Glass

Unparalleled quality, delivered globally, from the specialists in switchable glass.



Privacy smart glass product options

Custom Sizes

Maximum Sizes : 1.5 x 3.6 meter.

Minimum Sizes: 200mm x 200mm.

Power Consumption 5Watts / m²

Glass type - Ultra clear tempered lamination. Glass thickness : 10mm, 12mm and 13.5mm.

Switch speed : 0.5 seconds at room temperature. 99.5% UV block.

Glass thickness / decibel rating
10mm / 35 db, 12mm / 37 db and
13.5mm / 39 db.



Superior clarity, exceptional performance, easy maintenance

Low iron, premium float glass and premium, German made, Hybrid EVA for greater clarity and stability. With the world's most advanced Polymer Dispersed Liquid Crystal (PDLC) for reliable, consistent performance.



Finest manufacturer & finish

All glass are processed and finished in-house using the latest machines and furnaces. Assembled in a climate-controlled, clean room environment. All glass tempered and polished as standard. Precision packed for global shipping.



Reliable, consistent operation

Every unit is subjected to a rigorous set of quality checks including extensive, automated, electrical tests to ensure reliable, consistent operation. Our advanced electrical controllers deliver the highest level of clarity and provide for several fail safes that can automatically shut down and protect the product, prolonging product lifespan.



Exceptional UV block

Skypane smart glass provides up to 99.5% protection from damaging UV rays.



Longer life

Our raw materials, processing, finishing, testing and electrical controllers provide a higher quality, more stable, longer lasting product – the reason we can offer our comprehensive 5-year warranty.

Retrofit Smart Films

- Externally applied on glass surface.
- Film exposed to external conditions like humidity.
- Chances of delamination and damage due to several reasons like equipment movement, cleaning methods.
- The electrical contacts on the film are exposed to humidity / condensation.
- Non washable. Only for dry areas as surface and electrical contacts are exposed.
- Shorter life span and limited 2 years warranty.

Vs Privacy Smart Glass

- Laminated between two glasses.
- Completely air tight as film is fully sealed within glass.
- No chance of any damage to the pdlc interlayer.
- The electrical contacts on the pdlc are fully secured between two glasses.
- Waterproof. Glass surface can be cleaned using conventional cleaners or water.
- Longer life span and 5 years warranty on film performance and 10 years warranty against delamination of glass.

The specialist in switchable glass since 2020

Unparalleled experience, world-class quality, and a specialist team.

We control every aspect of our manufacturing – to ensure we deliver a quality, made- to-order solution you can trust. All our glass is processed and finished in-house. We process low iron, premium quality float glass to achieve the highest levels of clarity and consistency. We use only the finest materials, with each unit hand finished and checked, and shipped with our comprehensive 5-year warranty.

OUR CLIENTS INCLUDE



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Our purpose is to deliver solutions that the world’s leading architects, builders and fit-out companies can trust. Uncompromising quality and service, at a competitive price.



HN RELIANCE HOSPITAL

State-of-the-art Şkypane[®] smart glass ensures patient safety & privacy.



Project Profile

PROJECT

HN Reliance Hospital

LOCATION

Mumbai, India

PRODUCT TYPE

Privacy

SECTOR

Healthcare

PRIVATE RESIDENCE PROJECT

Cinema room Skypane[®]
smart glass in luxury
developments.



Project
Profile

PROJECT

Private residence
project.

LOCATION

New Delhi,
India

PRODUCT
TYPE

Privacy

SECTOR

Residential



THE PARK HOTEL

High-end partition wall and a durable alternative to conventional electronic curtain system.



Project Profile

PROJECT

The Park Hotel

LOCATION

The Park,
Bangalore

PRODUCT TYPE

Privacy

SECTOR

Hospitality



JUPITER MULTI SPECIALY HOSPITAL

Ultra-hygienic induction suite for modern Dental hospital designed to maximise patient comfort and safety.



Project Profile

PROJECT

Jupiter Multi Specialy Hospital

LOCATION

Thane, India

PRODUCT TYPE

Privacy

SECTOR

Healthcare

KAMAL LAW COORPORATION

Automated sliding for partition for high profile corporate law office in Singapore, maximising city views.



Project Profile

PROJECT

Kamal & Co.
Advocates

LOCATION

Hyderabad

PRODUCT
TYPE

Privacy

SECTOR

Commercial



THE NOVOTEL

Novotel Hotel featuring switchable smart glass in luxury en-suite bedrooms.



Project Profile

PROJECT

Novotel

PRODUCT TYPE

Privacy

LOCATION

Hyderabad

SECTOR

Hospitality

PCL MUMBAI

Skypane® smart glass screen for conference room at PCL corporate offices, Mumbai.



Project Profile

PROJECT

PCL Mumbai

LOCATION

Bandra Kurla Complex, Mumbai

PRODUCT TYPE

Privacy

SECTOR

Commercial

Skypane

Future of Smart Glasses

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