

[www.mirageglasses.com](http://www.mirageglasses.com)



**MIRAGE<sup>®</sup>**  
**GLASSES**

*Making Walls Disappear*

ONE STOP, COMPLETE  
GLASS SOLUTIONS







# ABOUT US

## GLASS

Glass is a Mirage to fuse interiors with exteriors and a science to create space. PROCESSED glass typically used for architectural purposes plays a significant role in achieving superior personal comfort and energy efficiency. It offers a variety of benefits such as: day lighting, noise control, thermal comfort and significant energy savings

## CERTIFIED GLASS PROCESSING COMPANY

Mirage Toughened Glasses Pvt. Ltd. manufactures tempered glasses, insulated glasses and laminated glasses with the latest machinery for numerous applications in architecture and automobile industry, following strict American standards. Commencing our operations from Chandigarh.

we also provide comprehensive installation solutions right from the conceptualization of variable load tested glass structure design, assisting you in selecting the exact glass types and thicknesses which is best suited or your needs and also complies with a green building design and national building codes of India

We have the most advanced machines which are best in the industry for CNC cutting, Edge-Polishing, Toughening, Bending, Insulating (Double & Triple Glazed Units), Lamination, Ceramic Printing and enameling ensuring that you receive ISO Certified Products combined with the best of service.

Mirage Toughened Glasses Pvt. Ltd. is the most comprehensive and technologically advanced glass processors in Punjab. Our state of art integrated processing facility is spread over an area of 100000 sq.ft and is equipped with latest machines and world-class technology. We have successfully competed more than 500 projects with excellent customer feedback.



# CERTIFICATIONS



## TO WHOMSOEVER IT MAY CONCERN 05-05-2014

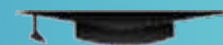
This is to certify that Mirage Toughened Glasses Pvt. Ltd. is an Authorized processor of Saint-Gobain Glass India.

Mirage Toughened Glasses Pvt. Ltd. is validated to Process our Clear Glass, Reflectasol Series, ST Series glasses.

Saint-Gobain does quarterly SGC Audits & SGC Reviews.

For Saint-Gobain Glass India Ltd

Authorized Signatory  
Saint-Gobain Glass India









## Architectural Glass:

That glasses which is used as a building material. It is most typically used as transparent glazing material in the building envelope, including windows in the external walls. These glasses retain their color and strength for the life of the building, yet they can be easily cleaned as any conventional glass.

### Categories:

#### Tempered Safety Glass (Toughened glass)

*Glass that's all about strength*

Preprocessed to custom sizes the glass sheets are heated in a furnace. Oscillating back and fourth it reaches a temperature of 650°C. After heating the glass is cooled swiftly by a blast of air. This makes the glasses 5 times stronger than normal float glass. Toughened glass is very difficult to break but even on breakage it will break into small, harm less and blunt fragments. Also it offers higher thermal shock resistance from sudden temperature changes up to 240°C as compared to 40°C in the case of normal glasses.

### Features:

- **5 times stronger than normal float glass.**
- **Shatters into small, harmless and blunt fragments**
- **Higher thermal resistance, bears sudden temperature change up to 240°C**

### Usage:

**Building Facades | Shower Enclosures | Office Partitions | Doors and Windows | All glass entrances and store fronts | Extreme wind loads | Fireplace enclosures | Sports courts | Fire knock-out panels | Exclusive Furniture | Automobiles and Railway | Kitchen appliances | Lighting fixtures | Solar Panels | Ships and Vessels**

### Size:

Thicknesses from 4 mm to 19mm, maximum width 2.44 m (8 ft), and maximum lengths up to 4.88 m (16ft)

## Temperable Glass Types

Clear | Frosted | Lacquered | Ultra Clear | Solar Control Reflective Glasses

## Bend Tempered Glass:

*One's obvious choice for an alternative to the stereotype rectangular design of buildings.*

Cut to size glass sheets are heated until they're soft. After that the glass is rapidly cooled to the desired shape. Due to the increasing complexity in today's design and architecture it's the obvious choice for an alternate to the stereotyped rectangular design of buildings. It boasts of a seamless panoromic view and saves maximum space.

### Features:

- **Seamless panoromic view**
- **Saves maximum space**

### Usage:

**Curved stairways | Cylindrical lift capsules | Alternative to the stereotype rectangular design of buildings Sliding Door systems | Display Counters**



## Insulated Glass (Double/ Triple Glazed Unit):

*The glass which pays for its own cost while giving additional personal comfort !*

It's a prefabricated unit comprising of two or more glass panes, which are sandwiched by argon gas or an air gap. These two panes of glasses are separated by a hollow aluminum tube spacer filled with a moisture absorbing material (desiccant) and all the edges are impeccably sealed to ensure that the gas between the glasses does not escape. The extremely low conductivity of the enclosed dry air in Insulated glasses increases the thermal and sound insulation more than twice as compared to a single glass pane. The use of a solar control or reflective glass as one of the panels will further significantly reduce the load on the air conditioner.

It also prevents dew condensation on the surface giving a clear view even in high humidity and rainy seasons. It provides increased personal comfort and leads to a pleasant internal environment even while seated close to the glass surface. DGU glasses also marginally increase overall strength against wind loads. Using one of the panes as laminated glass will drastically reduce sound transmission and is extensively used in trains

### Features:

- **Increases the thermal and sound insulation more than twice as compared to a single glass pane.**
- **Prevents dew condensation**
- **Over-all Strength is increased against wind pressure**
- **Increased personal comfort and a pleasant internal environment**
- **Retards sound transmission**

**Usage:** Facade of glass using wooden or aluminum frames | Large glass surfaces

**Sizes:** Max width 2.44 (8ft ) and max length 3.66m ( 12ft)

## GEORGIAN BARS

*Bespoking the windows by visually dividing the glass units into small panes*

A range of beautiful profiles incorporated inside a Double Glazed Unit to give your house a much more aesthetically sound look.

Georgian bar is a fenestration term to describe internal or external bars fitted to windows, whether they be timber, Aluminium, composite or UPVC. Georgian bars are usually a horizontal and/or vertical bar (usually made of aluminium, PVC-U or timber) that goes across windows and doors to give a "Georgian" appearance

These profiles are incorporated inside a double glazed unit which gives Georgian Bars a much longer life. Because they are tightly sealed inside the glass, it is dust proof, rustproof, Prevention from color ageing. This product gives you the beauty of real glass bevels with total protection from the elements. It is also the most eco-friendly product available. It can be quickly assembled. It can be used inside the DGU unit replacing the traditional grille system

**Features:** Replacing traditional grill system Available in white , charcoal grey and wooden finish

**Usage:** These glasses can be used in French Doors and Windows | Glasses Walls |

Partitions | Entrance| Fixed Windows etc

**Sizes:** Max panel size 8 ft x 10 ft (2.44m x 3m)









## Encapsulated Glass Blind and Skylight System

*No more dirty and damaged blinds*

Insulated Glass Blinds delivers unprecedented comfort and control of vision, daylight, solar heat gain and sound reduction. Mirage's Insulated Glass Blinds provide a fine combination of Louvers or Honeycombblinds between glasses that are hermetically sealed and cordless, guaranteed for longevity, optimized for energy efficiencies, and customizable to any design, environmental or cultural requirements. Its advanced louvered technology ensures alignment, zero maintaince and the ideal day lighting and privacy solution for any residential or commercial use.

With numerous options of shades available in the blind. It can be operated with a fully automatic remote, regulator switch and by a manual chord system The glass blind can be installed in all wooden, upvc and aluminum frames

Using special aluminium profiles, without any intermediate supports, openings up to 4 metres wide can be covered whilst maintaining the light, open atmosphere of skylights and glazed roofs. The perfect system to provide shading and control of solar glare.

### Features:

**Available in both cordless and manual options • 5 year warranty • Zero maintance • Unprecedented comfort • Enhanced healthy dust free environment • Considerable energy savings, even supports all LEEDS requirements • Available in multiple colors, shades and textures that blends with any interior theme.**

### Sizes:

Max size for the encapsulated blind is 7ft x 10ft (2.15m x 3.21m)

Max width for the skylight system is 13 ft( 4m)

### Laminated Safety Glass:

*Security glass-a clear choice for windows without grills*

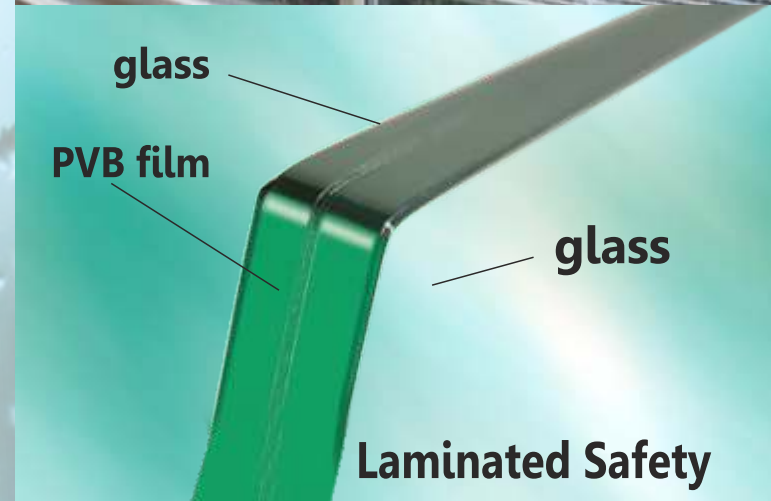
Laminated glass is a type of safety glass that holds together when shattered. In the event of breaking, it is held in place by an interlayer, typically of polyvinyl butyl (PVB), which absorbs impact, resists penetration holding the fragments together and safeguards the building. It blocks 99% of UV, the sun's damaging radiation, protecting interior furnishings, paintings or merchandise on display. The sheer damping properties of the PVB interlayer makes it an excellent barrier to noise. Security laminated glass is mainly used in windows without grills against burglary. It doesn't disintegrate readily when exposed to heat, so it confines the fire longer

### Features:

- **Blocks 99% of UVradiation of the sun**
- **Excellent barrier to noise**
- **Security against burglary**
- **Fire retardacy**

**Usage:** Windows without grills | Skylights in frame, glass railings | Balcony with glasses on bolt | Staircase balustrades and steps | Canopies

**Sizes:** Max width 2.44m(8ft) and Max. Length 4.88m (16ft)













## Fabric Laminated Glass

Fabric laminating gives you the opportunity to encapsulate a rich selection of fabrics within protective glass layers. The beauty, colour and texture of regular woven cloth, delicately constructed textiles or printed fabrics are protected when combined with the structural strength and practicality of glass.

An ideal product for use in structural, acoustic and decorative applications as the process allows for a wealth of possibilities for a wide range of applications including screens, partitions and cladding.

## Mirage Illuminated Mirrors

Brighten up your interiors and create space with extra clear reflections with LED mirrors. With a 1 year warranty with fully customized Led designs and sizes. **Available with the options of a DE-FOGGER, IN BUILT HD BLUETOOTH SPEAKERS, TOUCH SENSORS, MULTIPLE COLOURED LIGHTING**

## Stained glass

The art of making coloured and beveled glass patterns using traditional 5000 yr old skill, made by hand .

## Digital Printed Glass

Whether it's an illustration, pattern, photo or text, Mirage can cost effectively print it in thousands of colors and an infinite number of opacities on virtually any type of glass.

## Frosting, Satin Frosting And Etching

*For certain applications where light is allowed while eliminating vision.*

One of the surfaces can be frosted by blasting abrasives (Sand) causing a pitting on the surface using high pressure nozzles obscuring the see through property but giving a passage to light to pass.

Another type of frosted glass is made by acid treatment resulting in a milky smooth satin finish on glass and achieving the same objective of limiting vision but allowing light. A milky PVB in a laminated glass can also be used for the same effect.

This process can be used to make some designs, patterns or images on glass. This is done by masking a part of the glass surface with a stencil mostly made by cutting patterns or designs on a vinyl sheet. Any geometric, floral, Victorian or contemporary designs are available.

**Usage: Shower Cubicles | Privacy Partition | Washrooms | Urinal Partition | Logos & Branding on Glass Doors & Windows | Designer Pattern Partition**

## Lacquered Glass

Laquering on glass can be done using special enamels which can be applied to glass post tempering. With **no limitations on colour choices, designs and sizes**

The lacquer is applied to the reverse side of the glass so that it is protected from damage and ensures that the colors are durable and bright.

**Usage: Kitchen Splash Back | Wardrobes | Mixes well with wood stone to fuse walls with the flooring.**







## MIRAGE TOUGHENED GLASSES PVT. LTD.

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