

Decorative Glass for Homes & Offices



PRESENTED BY:



Green Building



- According to IGBC, "A green building is one which uses less water, optimizes energy efficiency, conserves natural resources, generates less waste and provides healthier spaces for occupants, as compared to a conventional building."

Benefits of Green Buildings



- **Benefits of Green Homes**

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- A Green Home can have tremendous benefits, both tangible and intangible. The immediate and most tangible benefit is in the reduction in water and operating energy costs right from day one, during the entire life cycle of the building.
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- **Tangible benefits**

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- Energy savings : 20 - 30 %
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- Water savings : 30 - 50%
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- **Intangible benefits**

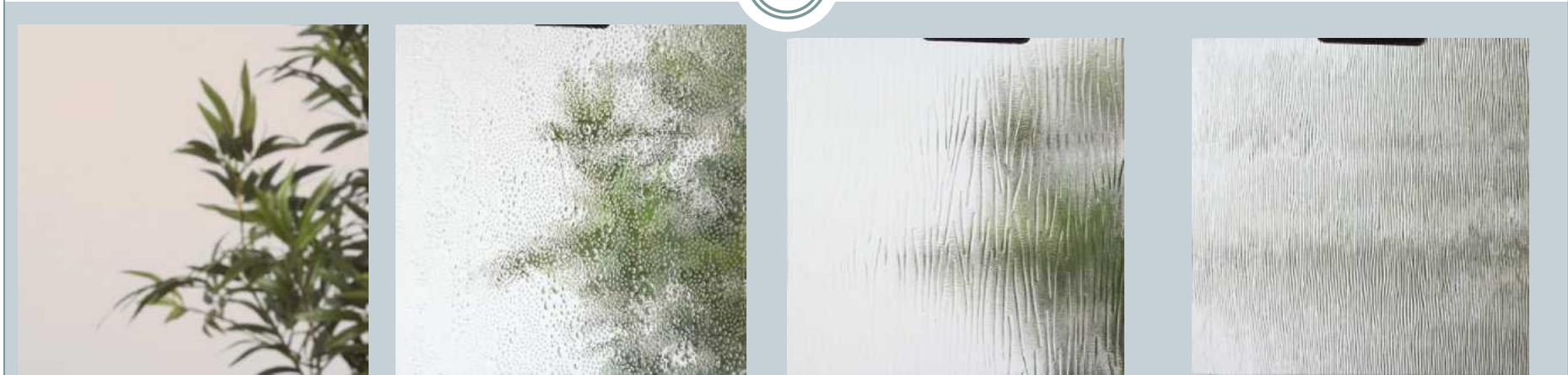
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- Enhanced air quality,
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- Excellent day lighting,
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- Health & wellbeing of the occupants,
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- Conservation of scarce national resources
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- Enhance marketability for the project.

Role of Decorative Glass in Homes & Offices



- Decorative Glass, also known as Figured Glass or Patterned Glass, is a decorative and translucent glass with pattern on one surface of the glass sheet.
- They offer decorative benefits to architects, builders, interior designers for a range of exciting applications in homes, restaurants, office interiors, hotels and other venues where privacy and light are important.

Effect of Patterned Glass – obscurity but light gets transmitted



What is Patterned or Figured Glass?



- Pattern Glass is made in the same way as Float Glass except that the glass ribbon passes through two rollers, one of which is embossed, and the design from the embossed roller is pressed on the still soft glass ribbon. By changing the rollers from time-to-time, various exciting designs can be produced in clear glass or in various tints like Blue, Green, Amber, Grey, Bronze, Sea green, Ocean Blue, Wine. Most Patterned Glass can be double glazed and many of the patterns can also be tempered.

Some designs & tints available in patterned Glass





- Patterned Glass is also known as Rolled or Obscure glass. It obscures a view without noticeable loss of natural or artificial light. In addition to obstructing the visibility from outside and diffusing the light, the figures soften the interior lighting. The glass achieves soft and comfortable interior lighting because its figures diffuse the incoming light. Transmission factors for solar radiation energy and visible light rays are much the same as in float glass.

Applications of Patterned Glass in Homes & Offices





- Had this partition been made of wood or brick & mortar or ply-board, the interior of the cabin would have had to switch on the lights even during the day time.
- The Patterned Glass partition allows sufficient light to get transmitted in without compromising with the privacy of the cabin.
- The next photograph shows how the light streams in through the Patterned Glass window.



The Living room area has similar daylight streaming in



Applications of Patterned Glass



- Patterned Glass is used for office and showroom partitioning, up-market homes, washroom basins and bath cubicles, balustrades, showroom shelves, fridge shelves, doors, decorative uses, restaurant partitioning.
- Being lower in prices, it is also used in India for window glazing in low-cost housing.

Advantages of using Patterned Glass

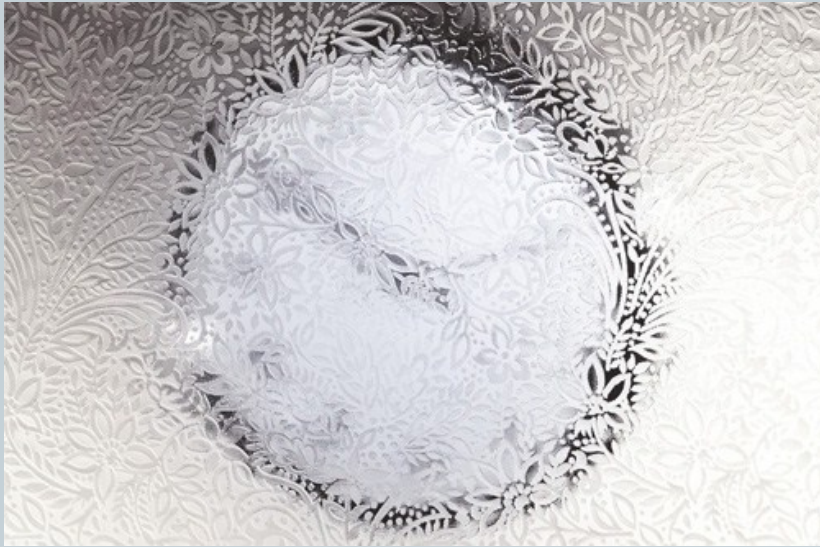


- Historically in India, Patterned Glass is priced lower than Float Glass. As such, in a developing country like India, Patterned Glass is economically more viable.
- Patterned Glass is available in all thickness from 3.0 mm. to 10.0 mm.
- As mentioned earlier, Patterned Glass allows light to come in while retaining the privacy of the room. The designs that are embossed, keep changing as per the changing times and demands of the customers.

Advantages of using Patterned Glass



- They lend an aesthetic decorative benefit to the architect or interior designer.



Advantages of using Patterned Glass



- Some of the designs are so fine that they can also be tempered. Almost all Patterned Glasses can be used in double glazed windows.
- Hence, Patterned Glass or Figured Glass are used in Homes & Offices as
 - * They are economically more viable;
 - * They are bio-degradable;
 - * They help the light to get transmitted while retaining the privacy of the room;
 - * Allow architects, interior designers the benefit of better aesthetics;

Advantages of using Patterned Glass



- * They can be used in double glazed doors and windows and some of the designs can also be tempered;
- * Available in clear and various tints like blue, green, amber, grey, bronze, sea green, ocean blue, wine;
- * Available in thickness from 3 mm. to 10 mm.