

Wide range,  
consistent quality,  
efficient support and  
quick deliveries

## INFINITY TUFF

Manufacturer of :

- Architectural Glass  
Toughened Glass  
Insulated Glass
- Cook top Glass  
Ceramic Printing Glass  
UV Digital Printing Glass
- Chimney Glass  
Top Glass  
Front Glass



**INFINITY GLASS**  
I n d u s t r i e s



Intelligent use of glass makes a positive difference to any project's aesthetics, energy efficiency, environmental impact and overall costs. It is about time to consider using glass in an informed manner for your projects.



## Presenting world class toughened glass from Infinity Glass .

No more depending on metros for your needs of quality glass, as Infinity Glass is now available here. Our ultramodern plant is set up on eight acers of land covering two lac square feet covered area on the out skirts of Faridabad and is amongst the finest in the country.

The fully automated plant has the latest, fully computerized machines imported from Italy and China. The facilities of CNC machines for cutting, polishing, drilling, toughening and automated material handling are created under one roof to deliver end to end solutions.

Investment in latest technology and selection of finest float glass is only beginning of story at Infinity Glass . We apply most stringent quality measures to the processes under the watchful eyes of our expert team. Be it product or the service-we aim to provide superior experience to our customers.

In us, you will find a trusted partner, not just an ordinary glass supplier.



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## Applications

Toughened glass has innumerable applications, limited only by one's imagination. Some are shared below:

### Exterior

Facades, Spider Glazing, Structural Glazing, Auto Sensor Doors, Windows, Canopy / Fins and Skylights, etc.

### Interior

Cubicles, Frame Less Partitions, Frame Less Shelf, Furniture, Staircase and Balcony Railings, Paneling, Frame Less Doors.

### Commercial and Industrial

Home appliances like Gas stove , Chimney, Refrigerators , Freezes etc, Solar panels , Automotive's.

## Toughened glass

Toughened glass is manufactured by subjecting the finished glass size to an elaborate heating and cooling treatment on highly sophisticated equipment. This process sets up high compressive stresses at the surface and balancing tensile stresses in the center of the glass thus increasing its strength.

These counteracting stresses impart high mechanical resistance to breakage to the glass. Even if this glass breaks, the toughened glass produces small, regular, typically square fragments rather than long, dangerous shards that are far more likely to lead to injuries.

Toughened glass is many times stronger than float glass of the same thickness.

## Benefits

Toughening increases tensile strength, thermal shock resistance and safety of normal glass. It also enhances its heat withstanding capacity. Attributing to these properties, toughened glass is preferred in applications where strength, safety and thermal resistance are essentials.

## Mere heat treatment doesn't make toughened glass

Commonly available heat strengthened glass is also produced using a process similar to toughened glass. However, owing to inadequacy of the process and poor equipment, the strength developed is not even half of that of toughened glass and it fails in meeting the safety glass safe break criteria.



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# Insulated Glass

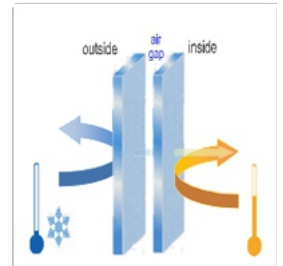
## WHAT IS INSULATED GLASS

The Insulated glass is a prefabricated unit made of two or more glass panes, which have been separated by an air gap and edge-sealed together. This edge seal not only binds the individual sheets of glass together to maintain the mechanical strength of the joint but also protects the space between the glass from outside influences. The air enclosed between the two glass panes is dried with a desiccant. Because of the low heat conductivity of the enclosed dry air between the glass panes, heat transmission through the window is drastically reduced. Tempered, Laminated, reflective, low-E, tinted or clear glass can be used.

## FEATURES

### Insulation

Saves on heating and cooling by reducing air to air heat transfer.



### Prevention of Dew Condensation

There is no dew formation on the glass surface permitting a clear view even in the most humid conditions.



### Retards Sound Transmission

Using one of the panes as laminated glass will drastically reduce sound transmission.



### Pleasant Room Temperature

It offers increased personal comfort even when seated next to the glazing as the temperature of the inner pane is close to room temperature maintained.



### Strength

DGU glass will marginally increase the overall strength against wind load pressure.



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# Cook Top Glass

Infinity glass has a strong standing in manufacturing and top multinational & national glass top companies as its customers. Major customers are Glen, Elica, Prestige, Wonderchef & Kuchina. We have strong technical & development team and has good presence in gas stove market.

We manufacture both Ceramic Printing Glass & UV Digital Printing Glass. Our company is to be recognized as an epitome of reliability in the gas stove Tuffns glass industry. We are Leading Manufacturer and Marketer of gas stoves Tuffn's glass through excellence in Products, Process and Application Management.

## UV Digital Printing

We have in house digital printing facility for cook glass top as per BIS standards. We manufacture one burner, two burner & three burner cook top glass stove as per customer demands. Our current production capacity will be Four thousand pcs in a day & is increasing day by day.



## Ceramic Printing

We manufacture black toughened glass top (Toughened glass to sustain High temperature and long life). In this ceramic printing be manufacture one burner, two burner, three burner, four burner & hob glass stove as per customer demands. our production capacity is five thousand pcs in a day.



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# Chimney Glass

## What is a kitchen chimney

A kitchen chimney is a ventilation structure or appliance installed above the counter top. It works on the principle that hot air is denser than cold air. The movement of air goes up when the temperature increases. One must have seen the traditional chimneys built directly over the fireplace, where the smoke passes through the duct and leaves the house

The kitchen chimney sucks in the hot air, which contains smoke, fumes, and oil particles, all released during the cooking process. The smooth air movement through the chimney is supported by the fact that the kitchen air is warmer than the outside air.

Electric chimneys are used in modular kitchens.



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# Different types of Chimney Glasses

**1. Top Glass** : We deals in different types of top glass used in chimneys prepared by fully automatic Water jet and CNC Workstation . Mainly there are two types which are given below :

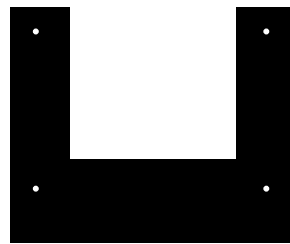
**1. Curved Glass** : It is a type of glass which is used in curved chimneys.  
It gets curved after passing through bend toughening process .We can bend glass maximum upto **Radius 1700 mm** to **Radius 600 mm** .



CURVED GLASS



**2. Flat Glass** : It is a type of glass which is used in Flat chimneys.  
it passes through flat toughening process .



FLAT GLASS



**1. Front Glass** : We deals in different types of Front glass used in chimneys  
mainly there are also two types which are given below :

**1. Curved Glass** : It is a type of glass which is used is curved chimneys.  
Its curving process is completely done by fully automatic machine for best quality.



FRONT GLASS

**2. Flat Glass** : It is a type of simple flat glass used in Flat chimneys.



FRONT FLAT GLASS

## Characteristics of toughened glass

Toughening does not alter the basic characteristics of glass such as light transmission and solar radiant heat properties.

The surface of toughened glass has higher resistance to surface damage and it cannot be cut, drilled or altered.

Toughened Glass has higher thermal strength to withstand high temperature differential of upto 250°C.

Toughened Glass is considered as safety glass as it is difficult to break, and even if it breaks, it disintegrates into relatively harmless small fragments.

## Properties

Thermal Shock Resistance	Upto 250°C
Mechanical Strength	4-5 times stronger than annealed glass
Tensile Strength	65 MPa
Bending Strength	120-200N/mm <sup>2</sup>
Surface Compression	> 95 MPa
Design Stress for Architectural Purposes	50 MPa
Fragmentation	Small round/ square fragments
Conducive for Processing	Cannot be cut after toughening



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