



EXPRESS  
YOUR CLASS  
WITH THE TOUCH  
OF GLASS



**JAIPUR TUFF**  
Glass! Changing the Perception

Glass is used in almost every part of our daily life from automobile to architecture. A company which is unveiling newer and have better products is not less than a blessing. Experience spanning of 4 decades, **JAIPUR TUFF** is well recognized for its excellence in the Architectural Glass Industry and meeting the demands of the modern construction. The integrated team work, the best of engineering practices and the technological advancements have helped to develop a wide range of superior glasses that energize our growing customers. We at **JAIPUR TUFF** strongly believes that serving the best quality product which consistently exceed customer's expectations is the only guaranteed methodology to deliver continued growth. **JAIPUR TUFF** Glass brings together a range of products that enhance the spaces. **JAIPUR TUFF** is a company that constantly looks at opportunities to reinvent itself and provide its customers the world class glasses using best machineries and man power.

**ENDURING  
EXCELLENCE  
FROM LAST 45 YEARS**



# OUR STRENGTH

The greatest strength is our topnotch technology powered by European machinery in processing high-quality glass with the help and support of top brands like-



## OUR FACTORY





## BETTER STRENGTH, BETTER SAFETY

Toughened or tempered glass is a type of safety glass processed by controlled thermal or chemical treatments to increase its strength 5-6 times as compared with normal glass. We aim to offer an excellent quality range of Toughened Glasses. Toughened glass is physically and thermally stronger than normal glass. Toughened glass is used when strength, thermal resistance and safety are an important considerations.

**TOUGHENED GLASS**





# SPECIFICATIONS

- Maximum size : 2440mm x 4800mm
- Minimum size : 153mm x 305mm
- Thickness : 4mm to 19mm
- Glass Type: Clear, Tinted, Reflective, Low-Emissivity, Figured/Patterned and Extra Clear, Ceramic Screen Printed Glass.

# APPLICATIONS

- Glass Partitions
- Shower Cabins
- Glass Facades
- Structural Glazing
- Glass Railings
- Furniture
- Frameless Doors
- Windows with grill
- Automobiles





## GLASSES WHICH PROVIDES A SAFE, DURABLE SOLUTION WITH MINIMUM OPTICAL DISTORTION.

Heat-strengthened glass is a glass that has been heat treated to induce surface compression and is intermediate in strength between annealed and toughened glasses. Heat-strengthened glass has outstanding thermal stability, its flatness and light transmission is close to that of annealed glass and much better than that of tempered glass. With the exception of strength and breakage characteristic, heat-strengthened glass retains the normal properties of annealed glass including chemical resistance, hardness, expansion & deflection.

**HEAT-STRENGTHENED GLASS**





# JAIPUR TUFF

## TUFF SERIES APPLICATIONS





## GLASSES GIVING SAFETY & SECURITY SOLUTION.

Jaipur Tuff Laminated glass is produced by a heat pressure process on the Fully Automatic Laminating Line with integrated autoclave, automatic loading & unloading, automatic glass positioning and a fully automatic online control system. Jaipur Tuff Laminated glass lends exceptional Safety and Security with very low visible distortion by using high quality Polyvinyl butyral (PVB) & Sentry Guard Plus (SGP).

## ADVANTAGES OF LAMINATED GLASS

- Security from burglary
- Sound Reduction
- Solar Energy Control
- Low Visible Distortion
- UV Radiation Control
- Safety from Natural Disasters
- Durability
- Design Versatility

**LAMINATED GLASS SERIES**







## SENTRYGLAS® A GLASS FOR ULTRA HIGH SAFETY & STRENGTH

### UNIQUE PROPERTIES OF SENTRYGLASS

- Based on lonoplast chemistry - no plasticisers.
- 100 times stiffer and 5 times more tear resistant than PVB.
- Laminates for SentryGlas can bear higher load than PVB laminates.
- Almost perfect transfer of load between the glass sheets.
- High post-breakage strength over a broad range of temperatures and loads.
- Excellent edge stability, with 20-year-old applications showing no edge defects.
- Highest clarity and lowest yellowness index (YID) of 1.5 or lower with no change after weathering. Other inter layers have values of 6 to 12.
- Does not require adhesives, other laminating aids or plasticisers, which could be a source of discoloration.
- The laminating process is almost identical to that for standard laminated glass.
- When used in combination with approved sealants, butt-joined glass elements with SentryGlas inter layers show no discoloration or other forms of damage to their edges, even after years of weathering.
- Excellent salt-spray/fog resistance - no defects exhibited after 3,000 hour salt-spray test conducted by TÜV laboratory in Singapore.
- Edge trimmer process enables faster trimming of interlayer edges with improved quality.

### SPECIFICATIONS

- Maximum size : 2600mm x 4500mm
- Minimum size : 300mm x 300mm
- PVB thickness : 0.38mm, 0.76mm, 1.14mm, 1.52mm, 2.28 and many customized options
- SGP\* thickness: 0.78mm, 0.89mm and 1.52mm

\*Sentry Guard Plus





## WE OFFER FIVE TYPES OF PRODUCTS IN THIS SERIES

- Jaipur Tuff Bullet Resis +
- Jaipur Tuff Sound Guard
- Jaipur Tuff Secure +
- Jaipur Tuff Creative
- Jaipur Tuff Lam +

### BULLET PROTECTION UP TO UL 752 LEVEL 4

The Bulletproof Glass is produced from polyvinyl butyral, polyurethane, Sentryglas or ethylene-vinyl acetate. with customized thickness from 30mm to 70mm as per security required.

#### Threat Stopped

- 9mm bullet 3 shots
- .357 magnum bullet 3 shots
- .44 magnum bullet 3 shots & others.

### SENTRYGLAS® RECOMMENDED FOR

- Windows without Grills
- Jewellery Showrooms
- Glass Walkways
- Shop Windows
- Glass Floors
- Railings without Frame
- Glass Staircase
- Glass Shelters

#### JAIPUR TUFF BULLET RESIS +



#### Jaipur Tuff Secure +







## TO ADD BEAUTY & SAFETY TO YOUR GLASSES.

Laminated Glass is a type of safety glass that holds within together when shattered. Laminated glass is normally used when there is a possibility of human impact or where the glass could fall if shattered and also for architectural applications. Skylight glazing and automobile windshields typically use laminated glasses. In geographical areas requiring hurricane-resistant construction, laminated glass is often used in exterior storefronts, curtain walls and windows.

### Recommended for

- Doors and Windows • Household furniture
- Kitchen & Bathroom Shelving
- Mirror/Lacquered Glass • Glass Skylight
- Glass Railings with Frames
- Partitions & Frameless Doors
- Commercial & Overhead Glazing
- Glass Aquariums & Canopies

LAM+





## DESIGNED FOR UNWANTED SOUNDS & STRESS FREE ENVIRONMENT.

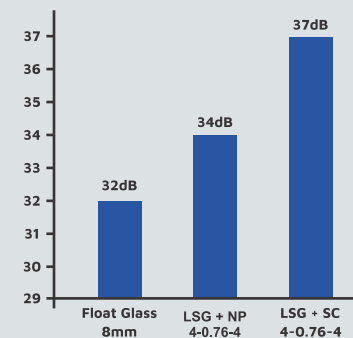
A Soundproof glass is made by using cutting-edge technology to dramatically reduce the noise in your environment and improve your quality of life. These glasses will significantly reduce the noise levels without compromising your style. Your window will look better than ever before. This is due to the properties of the Jaipur Tuff Sound Guard interlayer which absorbs the sound that passes through the laminated glass.

## RECOMMENDED FOR

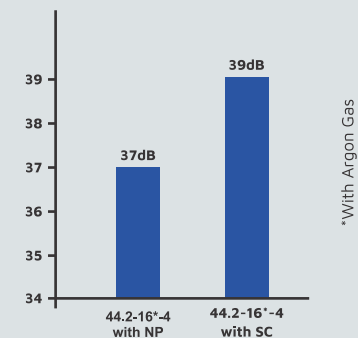
- Hospitals
- Office Cabins
- Spa & Rejuvenation Centres
- Bars & Lounges
- Educational Institutions etc.
- Residentails

**SOUND GUARD**

Sound Insulation (dB) with Monolithic Glass



Sound Insulation (dB) with Multiple Insulating Glass



LSG: Laminated Safety Glass, SC: Sound Control NP: Normal PVB,







## BECAUSE COLOURS AND AESTHETICS MATTERS.

These Glasses can bring about a complete transformation to architectural designs. The wide range of available effects, patterns and colours allow you to create the desired look in your home or office buildings. They are preferred for attractive aesthetical appeal and decorative can be used in combination with other glasses with different functionalities.

## SOME OF THE CREATIVE SOLUTIONS

- Fabric Integrated Designer Glass.
- OLED-Ink Screen Printed Decorative Glass.

## RECOMMENDED FOR

The vivid colours and translucent aesthetic of PVB laminated glass make it a great choice in many interior and exterior applications including:

- Doors • Floor Panels • Furniture
- Interior & Exterior Railings
- Building Facades • Partitions & Glass Walls

**CREATIVE**





## ENERGY EFFICIENT GLASSES DESIGNED SPECIALLY FOR REDUCING HEAT AND SOUND TRANSFER.

Sandwiched units of two or more sheets of toughened glass, heat-strengthened glass or laminated glass separated by a dry air-space and sealed from the edges. Insulating glass units (or “IG units”) improve thermal performance by providing a thermal break. This enables the glass to meet two very different requirements – keeping warm in during cold weather and keeping cool during hot weather. It is used in structural glazing, commercial and residential windows and in railway coaches.

## SPECIFICATIONS

- Available air space 6mm, 8mm, 10mm, 12mm, 16mm, 19mm & also on customized sizes
- Argon & Krypton gas filled optional

## RECOMMENDED FOR

- Commercial/Residential Fixed & Operable windows
- Curtain Walls & Storefronts • Structural Glazing
- Sloped/Overhead Glazing
- Non-vision (Spandrel) Locations
- Railway Coaches
- Deep Freezers & Refrigerators

## OTHER PRODUCTS OF THE SERIES

GEORGIAN BAR DGU



INTEGRAL BLIND DGU



LED DECORATIVE DGU

A large-scale photograph of an industrial glass manufacturing or assembly facility. A massive glass unit is being processed, with numerous red safety lights visible along the edges and within the structure. A control panel with various buttons and switches is visible on the left side of the machine.

**INSULATED GLASS**



## OUR OTHER PRODUCTS

### SWITCHABLE GLASS

Jaipur Tuff offers the widest range of switchable glass products. Switchable glass, as its name, is operated by a simple electrical switch, controlling the opacity of the glass from clear to opaque. Switchable glass also offers thermal, solar and sound insulation benefits, helping to keep rooms cool, comfortable and quiet. And it removes the need for fiddly, awkward privacy blinds or curtains.

#### APPLICATIONS

- Privacy windows for the home and office
- Room partitions/dividers
- Electronic curtains/blinds
- Skylights/vision panels
- Counters/display cases
- Window displays/advertising screens and much more...



### FIRE RATED GLASS

Fire resistant glass for home or business provides protection & resistance from fire. Fire rated glasses are not meant for interiors alone. They can be used in exteriors and combined gracefully with architect's design. The strength of a fire-resistant glass is 6 times as that of an ordinary float glass and 1.5 times as that of tempered glass. The glass can effectively prevent the spread of flame and smoke, giving people enough time to evacuate and carry out relief work.

### HEAT SOAKED GLASS

The use of heat-soaked tempered glass is recommended where the risk of spontaneous breakage would cause difficulty. Heat soak treated glass can be reliable as high as 98.5% from spontaneous breakage due to NiS.



### BEND GLASS

Flat Glass is heated until soft, carefully formed to the desired shape and then annealed by controlled cooling to minimize trapped energy within the glass. The resulting Bend annealed product offers enhanced strength and stability to minimized internal stresses. But if broken, it breaks in a traditional large fracture pattern.

#### APPLICATIONS

- Display Counter
- Furniture
- Interior Partitions
- Doors
- Windows
- Stair Railing



## OUR SUPPLIERS



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