

WE MAKE
GLASS BETTER

रिद्धि सिद्धि[®]
TUFF • SAFE • COOL

Processors of :

Toughened Glass | Heat Strengthened Glass | Heat Soaked Glass | Insulated Glass
Laminated Glass | Fire Rated Glass | Ceramic Coated Glass | Bend Glass





WE ARE HERE SINCE **4** DECADES

The usage of glass in construction business has been an age-old practice and its versatile quality has added various new dimensions to its safety features in interior and exterior building construction.

Company Profile

40 Year ago, dreams were coupled with action and the vision mirrored as Ridhi Sidhi Group. Today, the group is one of the leading glass processing companies in India and a pioneer in Rajasthan. A name to reckon with Ridhi Sidhi has been maintaining highest standards to precision and excellent quality with highly qualified and professional team. Ridhi Sidhi is a popular name amongst architects, builders, contractors, interior-designers, Fabricator & Glass Dealers for complete glass solution.

CERTIFICATES & MEMBERSHIP

- ⊙ ISO 9001 : 2008 Certification.

- ⊙ SGC Star Status Certificate for Excellence in Processing.

- ⊙ Member of the Confederation of Real Estate Developers Associations of India (CREDAI)

- ⊙ Member of Builders Association of India. (BAI)

- ⊙ Member of Institute of Indian Interior Designers (IIID)

- ⊙ Member of Federation of Safety Glass (FOSG)

- ⊙ Member of Confederation of Indian Industry (CII)

- ⊙ Federation of Rajasthan Trade & Industry. (FORTI)

OUR STRENGTH

With the State-of-art glass processing machines, Ridhi Sidhi shares it's technical support from various top international brands.



Tempering Line



Lamination Line



CNC Cutting Line



CNC Cutting Line



Double Edging Polishing Line



Single Edging Polishing Line



Insulating Glass Line



Drilling & Milling



Glass Loader

रिद्धि सिद्धि®
TUFF
SERIES

Designed for use in areas where there is a high risk of contact and breakage.

TOUGHENED GLASS

Toughened or Tempered Glass is a type of safety glass processed by controlled thermal treatment to increase its strength compared to annealed glass. It is 4-5 times stronger than normal annealed glass. Used in building facades as it can withstand heavy

wind loads. Toughened Glass breaks into small, relatively harmless fragments. This reduces the likelihood of injury as there are no jagged edges or sharp corners.



Force conviction tempering plant



Automatic drilling & milling machine



Automatic Glass loader



Breakage Pattern of Toughened

Specifications

- Maximum Size : 2400mm x 4200mm.
Minimum Size : 300mm x 300mm .
Thickness : 3.5mm to 19 mm
- Glass Type : Clear, Tinted, Reflective ,
Low-Emissivity, Figured/Patterned and
Extra Clear Glass

Applications

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



Double edger machine

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Designed for use in areas where minimum optical distortion is required.

HEAT-STRENGTHENED GLASS

Heat-strengthened glass is a semi-tempered glass which retains the normal properties of an ordinary float glass.

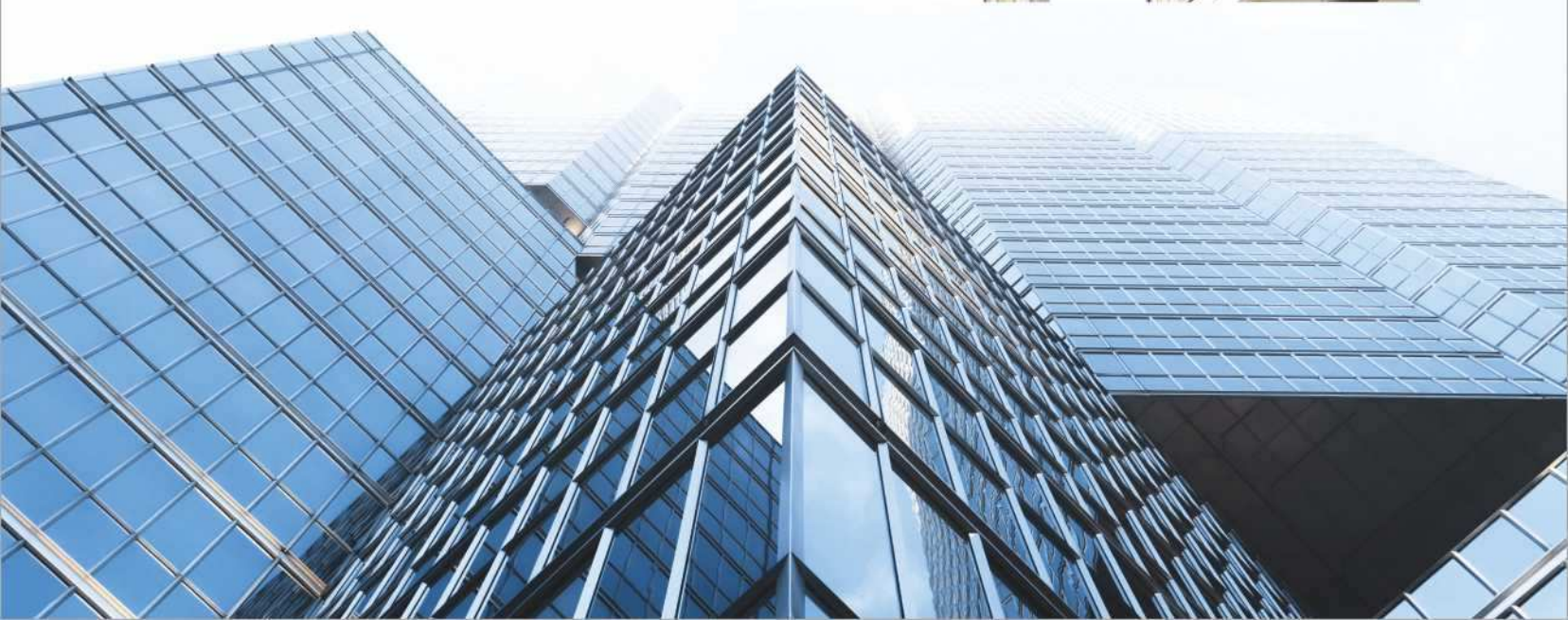
It is about twice as strong as annealed glass. It breaks into relatively large fragments that stick to its glazing framework when broken, heat strengthened glasses are not classified as a safety glazing material.

Heat-strengthened glass allows the interlayer to adhere more evenly because of a flatter finish surface, in comparison to tempered laminated glass.

As against toughened glass, heat-strengthened glass - with its flatter surface - also results in a facade having less optical distortions.

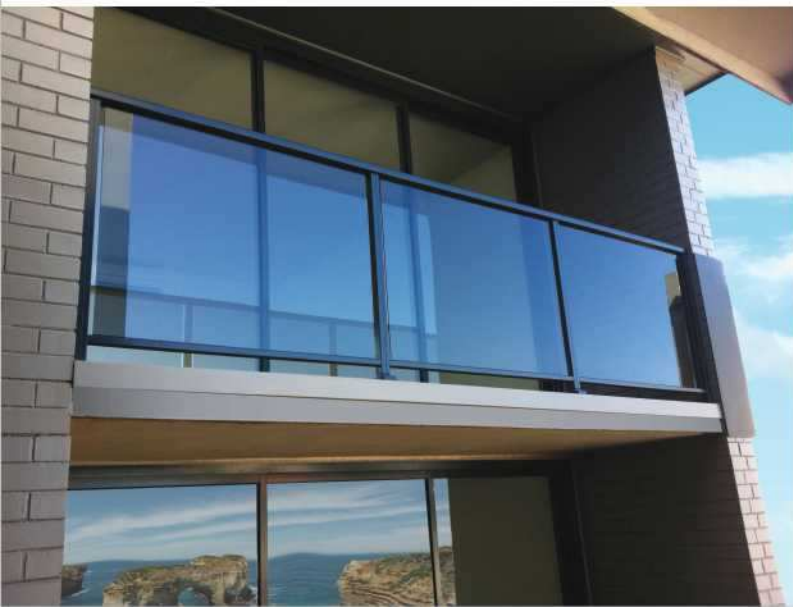


Breakage pattern of HS Glass





RIDHI SIDHI TUFF APPLICATIONS



ridhi sidhi®

SAFE

SERIES

Designed for use in areas where safety & security is required.



BREAKAGE PATTERN OF LAMINATED GLASS

Ridhi Sidhi Safe laminated glass is produced by a heat pressure process on The Fully Automatic Laminating Line with integrated autoclave, boasts automatic loading and unloading, automatic glass positioning and a fully automatic online control system. It lends exceptional Safety and Security with very low visible distortion. It reduces heat, glare and sound while eliminating UV radiation.

We are providing four type of products in Ridhi Sidhi Safe Series:

- **Ridhi Sidhi Lam**
- **Ridhi Sidhi Secure ++**
- **Ridhi Sidhi Sound Guard**
- **Ridhi Sidhi Creative**



Advantage of Ridhi Sidhi Safe

- **Safety & Security**
- **Sound Reduction**
- **Solar Energy Control**
- **UV Control**
- **Resistant to Weather/Natural Disasters**
- **Durability**
- **Design Versatility**
- **Installation Ease**
- **Low Visible Distortion**

RIDHI SIDHI SAFE APPLICATIONS



Specifications

- Maximum Size : 2400mm x 4200mm.
- Minimum Size : 300mm x 300mm .
- PVB thickness : 0.38mm, 0.76mm, 1.14mm, 1.52mm and also on customization



रिद्धि सिद्धि®
SAFE
SERIES

Designed for areas where a complete glass solution is required to provide safety & aesthetics.

RIDHI SIDHI LAM

Ridhi Sidhi Laminated glass is a safety and security glass that is made by sandwiching a PVB sheet between two or more pieces of glass. The PVB (Polyvinyl Butyral) sheet in the middle of the glass helps in sticking the glass pieces to it when the glass is broken. The key to laminated glass is that PVB are not joined but “conjoined”. The laminated glass is designed to prevent it from shattering into pieces and thus ensures safety. This produces a characteristic “spider web” cracking pattern when the impact is not enough to completely pierce the glass.

In geographical areas requiring hurricane-resistant construction such glasses are recommended.

RECOMMENDED FOR

- Doors and Windows
- Household furniture.
- Kitchen & Bathroom shelving.
- Mirrors\Lacquered Glass
- Commercial glazing,
- Overhead glazing,
- Glass skylight,
- Glass aquariums
- Glass Canopies
- Glass Railings with frame



ridhi sidhi[®]
SAFE
SERIES

Designed for Projects where Extra Strength and Protection is required.

RIDHI SIDHI SECURE ++

Ridhi Sidhi Secure ++ Glass is highly acclaimed for its superior toughness. Burglars and thieves cannot easily break these glasses since these are extremely tough and thick. Even if it is accidentally broken, the interlayer continues to safeguard the building until the glass is replaced. Re-glazing can be done when convenient, rather than during expensive after-hours. These glasses can be designed to withstand bullets and bomb blasts



RECOMMENDED FOR

- Windows without grills
- Glass Walkways & floors
- Glass Staircase
- Jewellery showrooms
- Glass Shelters
- Shop Windows
- Railing without frames

रिद्धि सिद्धि®
SAFE
SERIES

Designed for Projects where
noise is intolerable

RIDHI SIDHI SOUND GUARD

Sound pollution can be a problem in both work & home environment. Ridhi Sidhi Sound Guard has proven to be an excellent resistance to noise and sound dampening. This is due to the properties of the Ridhi Sidhi Sound Guard interlayer which absorbs the sound that passes through the laminated glass. It's a best solution for architects specifying glazing systems that require even higher levels of afferent comfort.



RECOMMENDED FOR

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



रिद्धि सिद्धि[®]
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A step towards colourful world

RIDHI SIDHI CREATIVE

Laminated coloured glass creates the perfect opportunity for colour to meet light, creating everything from rich vibrant colours to soft subtle tones. Architects and designers now have the ability to incorporate colour into their glazing façades while maintaining transparency and natural light. Colour is no longer limited to opaque spandrel panels, wall coverings and paint. It can now be utilized throughout the entire glazing system.



RECOMMENDED FOR

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

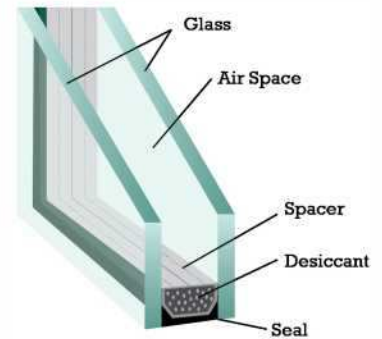
- Interior & Exterior Railings
- Building Facades
- Partitions & Glass Walls
- Doors
- Floor Panels
- Furniture

रिद्धि सिद्धि®
COOL
SERIES

Designed for projects where we require the Most effective way to reduce air-to-air heat & sound transfer through glass

INSULATED GLASS

Insulated Glass, often called double glazing, is a combination of two or more panes of glass spaced apart with a spacer bar and hermetically sealed with a primary and secondary sealant to form a single unit. IG units improve the thermal performance, thus significantly reducing heating and the amount of direct sunlight or UV rays that enter the room through windows thereby reducing air-conditioning costs. IG units also reduce interior condensation in cold climates, and increase comfort near windows, thus maximizing the usable interior space. It's even helps in sound insulation & improves the acoustics of the place.



Specifications

- Available air space 4mm, 6mm, 8mm, 10mm, 12mm, 16mm, 19mm & also on customization specifications.
- Argon & Krypton gas filling optional.

Recommended for

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



OTHER PRODUCTS:

- HEAT SOAKED GLASS
- FIRE RATED GLASS
- CERAMIC PRINTED GLASS
- BENT GLASS

HEAT SOAKED GLASS

Ridhi Sidhi Heat Soaked Glass can be used in critical application areas to eliminate the risk of spontaneous breakage. Nickel Sulphate (NiS) has been known to be the cause of spontaneous burst in Tempered Glass / Toughened Glass. During tempering the invisible nickel sulphide present in the glass is transformed to the high tempered α - phase ($>380^{\circ}\text{C}$) has no time to return to the β - phase on quenching. With the passage of time NiS slowly inverts to the low temperature β - phase with the increase in volume of about 4%. This volume expansion may cause glass breakage. The heat soak is a destructive treatment which heat the glass for several hours at about 290°C to speed up the α -NiS to β - NiS transformation and consequently forces the contaminated glasses broken within the oven.

Precautions

Heat Soaked Testing is not an absolute guarantee that the glass will not break spontaneously due to NiS but it substantially lowers the risk. Studies have been concluded worldwide indicating the reliability of heat soak test to as high as 98.5%.



FIRE RATED GLASS

Fire resistant glass for home or business gives 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. Optical transmission is the same as ordinary float glass. The strength of a fire-resistant glass is 6 times as that of an ordinary float glass and 1.5 times as that of the tempered glass. There's no difference between the two surfaces in fire-proof performance. The glass can effectively prevent the spread of flame and smoke, giving people enough time to evacuate the scene and carry out relief work.

Fire-resistant glass can be used as a substrate for other glass units, such as insulated glass, laminated glass etc to obtain better performances. It's widely used in movie theaters, banks, hospitals, shopping malls, large-scale casino and server rooms etc.



CERAMIC PRINTED GLASS

Ridhi Sidhi Ceramic Printed Glass is made by printing (Screen Printing) a layer of ceramic material on annealed glass before tempering or heat strengthening. After tempering or heat strengthening, the layer of ceramic frit is heat bonded to the glass surface making it resistant to chipping and peeling. In addition to its decorative effects Ridhi Sidhi Ceramic Printed glass also has outstanding mechanical features and impact resistance property as it is tempered or heat strengthened. Colours and patterns can be customized.

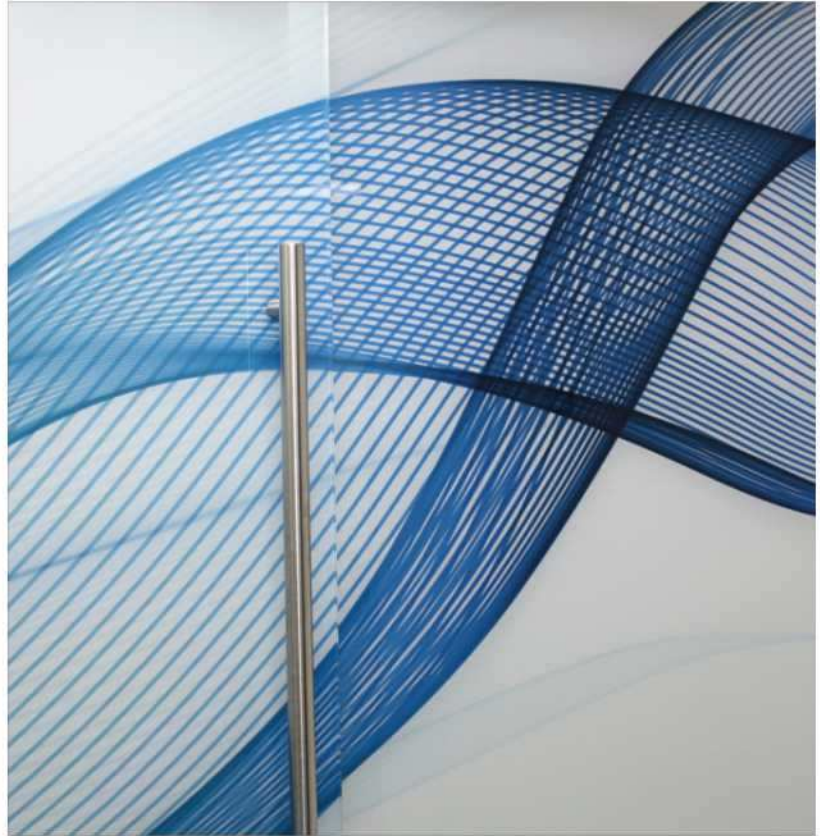
Benefits

Various Colour and Graphic Choices.

Anti-Glare

Safety

Durable, scratch proof, moisture resistant.



BENT 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 Bent annealed product offers enhanced Strength and the stability of minimized internal stresses. But if broken, breaks in a traditional large fracture pattern.

Application

Display Counter

Furniture

Interior Partition

Doors

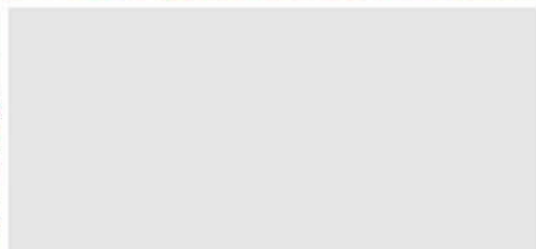
Windows

Stair Railing





Re-Visioned
the future of glass making...





The only Glass Crafted with
HUMAN TOUCH

With the largest range of architectural glasses in Rajasthan, **गर्वीही इवैही** has successfully supplied to thousands of prestigious projects all over the country covering a wide range of hotels, airports, hospitals, educational institutions, corporates, govt and semi govt projects. Some of them are -



OUR SUPPLIERS



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