



ADDING VALUE

to life with value-added glass



AIS Glass

Enabling a future that sees more

AIS is India's leading integrated glass company. As a leader, AIS delivers top-of-the-line products and solutions through its Strategic Business Units (SBUs): Automotive Glass, Architectural Glass, and Consumer Glass. We use our glass product portfolio—the biggest in the country—to meet functional needs in an aesthetic and contemporary manner. With products that provide next-generation solutions, AIS brings new ideas to life—enabling an age of “green buildings” and the dawn of a truly sustainable future. Taking the versatility of glass to the next level, AIS today has unmatched glass processing capabilities, including the processing of unique glass products, that enable us to meet your every need and fulfil every requirement, helping you realise your dream home through glass.

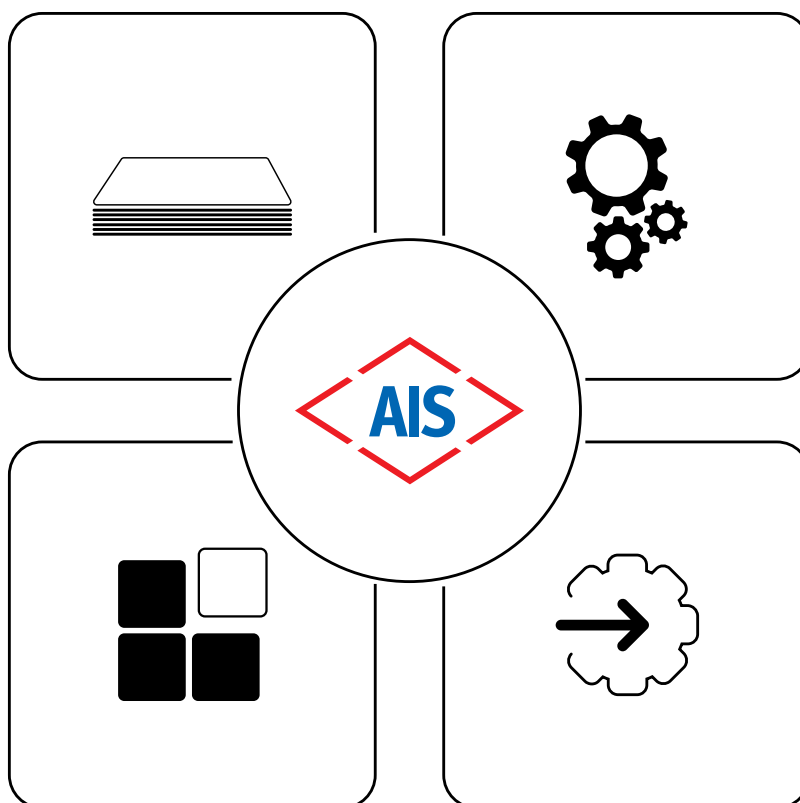




At AIS, we offer end to end solutions as a part of our 4G solutions, which encompass:

Glass Products

Wide range of high-performance products that include features such as optical comfort, thermal comfort, safety, indoor environmental quality, and aesthetics.



Glass Selection

Provides guidance in selecting the right product for your needs.

Glass Processing

Provides all kinds of glass processing in accordance with your specifications.

Glass Integration

At every stage of the value chain, AIS provides superior service, including consultation, design, installation and pre-installation support.



AIS Heat-Strengthened Glass

Heat-strengthening is a process where glass is first heated slowly and then cooled down gently. This process makes it twice as strong as annealed glass. It is also standard to heat-strengthen reflective glasses since wave formation is minimal when compared to the fully tempered process.

Benefits:



This glass can withstand high temperature differentials



Wave formation is minimal

Applications:

- High rise buildings for safety purposes
- Façade glazing

AIS Stronglas™

AIS Stronglas™ is a very high-grade tempered glass that is significantly stronger than ordinary glass. It goes through a toughening process which makes the glass invulnerable to tensile stresses.

Benefits:



Can withstand high temperature upto 300 degrees



Lowers the risk of impact related breakage



4-5 times stronger than annealed glass



The glass can withstand heat of up to 300° C, hence there is no danger of the glass break age due to thermal stress

Applications:

- Railings
- Table tops and shelves
- Shower enclosure





AIS Securityglas™

AIS Securityglas™ is a specially toughened, laminated safety glass that provides greater impact resistance and strength. It is manufactured with a specialized PVB interlayer between two sheets of glass, which provides a high level of intrusion-resistance.

Benefits:



Provides Level 2 and Level 3 protection from burglar attacks



Eliminates the need for grills or shutters, without compromising on safety



Effectively reduces sound for better acoustic performance



In the unlikely event of breakage, the PVB interlayer acts as an extra layer of protection

Applications:

- Windows
- Roof lights
- Canopies
- Domes
- Skylight
- Glass lifts

AIS SecurityPlus

Reinforced by a layer of Sentry Glass, AIS Securityplus is up to five times stronger than conventional laminating materials. This special interlayer increases the tolerance to greater loads while enabling a design of aesthetically pleasing and complex elements.

Benefits:



Its enhanced strength eliminates the need for grills



Requires minimal structural support



Retains clarity, even after years of use



Superior noise reduction for better acoustics

Applications:

- Façades
- Walkways
- Glass flooring
- Stairways
- Hurricane-resistant windows & doors
- Explosion resistant windows, doors, & facades





AIS Valuglas

AIS Valuglas is a distortion-free, heat-strengthened, laminated glass that delivers superior strength. With a 1.14 mm PVB interlayer for greater stability, it is a highly secure laminated unit that combines pleasing aesthetics with enduring strength.

Benefits:



Eliminates the need for
grills and shutters



Reduces
external noise



Unbeatable quality
at unmatched
value-for-money

Applications:

- Doors & Windows
- Canopies,
- Stairways
- Skylights
- Domes
- Overhead Glazing

AIS Acousticglas™

AIS Acousticglas™ is a laminated glass with a specialized PVB interlayer that significantly dampens external sounds and keeps the interiors calm and quiet.

Benefits:



Reduces 40 db
of external noise



Extremely durable with
superior aesthetics

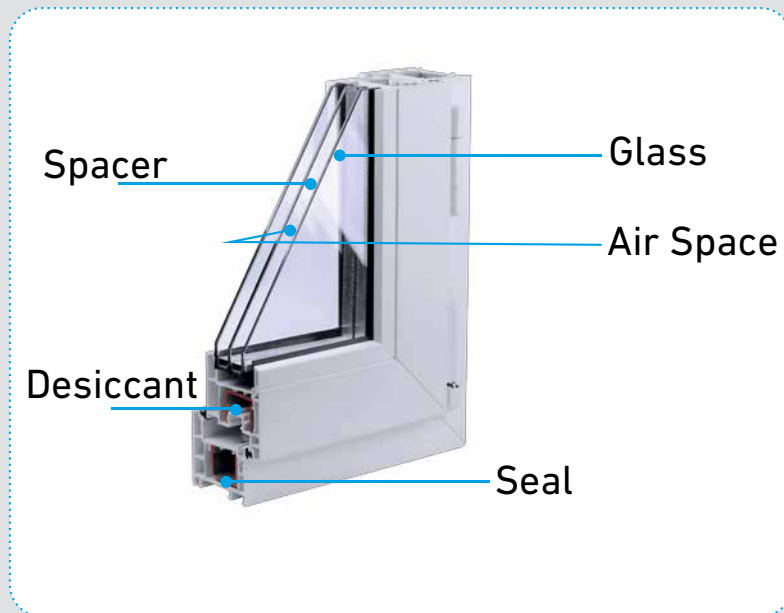


Enhanced parameters for
improved performance

Applications:

- Windows located in noisy areas
- Conference room and private cabin partition





AIS Insulated Glass Unit (IGU)

AIS IGU consists of two or more panels of glass separated by an air space and an aluminum or other type of spacer, around the edges, sealed to the perimeter in a controlled condition. The space contains a drying agent which eliminates moisture vapour in the cavity. This combination makes this product a superior energy-efficient method of glazing.

Benefits:



Reduces heat build-up in summer and heat loss in winter



Lowers UV transmission



Lowers noise penetration



Increases wind load strength



Improves security

Applications:

- Façade glazing
- Windows

AIS Décor

AIS Décor is a lacquered glass that has a unique, coloured, opaque appearance. It is manufactured using special, high-quality paint on one side of the glass and oven-cured through a unique process. This gives it a uniform feel and makes it highly resistant to heat, thus ensuring a lasting impression.

Benefits:



Durable: Lacquering ensures long-lasting, beautiful colours



Easy to use and maintain



Environment-friendly paints used



Processing: Can be cut, drilled, ground, beveled, and edge-finished or polished



Heat-resistant up to 80°C. (Slight fading of colour with prolonged exposure to high temperatures)



Moisture-resistant for use in bathrooms and kitchens. (Avoid regular contact with water)





AIS Coloured Laminated Glass

AIS Coloured Laminated Glass is manufactured with coloured interlayers, that makes it possible to produce a variety of vibrant shades and designs.

Benefits:



Enhances aesthetic appeal



Dynamic colours – both translucent or transparent can be created



Can be combined with a neutral, solar control, or thermal-insulated glass



Suitable for safety, security, and sound insulation, as well as UV protection



Reduced colour fading



Reduces heat ingress to different degree



Affords different levels of translucency for visual screening

AIS Fabric-Laminated Glass

AIS Fabric-Laminated Glass is manufactured by sandwiching layers of clear PVB / EVA to add texture, colour, and pattern to laminated glass. This product offers a wide range of fabrics within protective glass layers.

Benefits:



Combines the beauty, colour, & texture of the fabric with the structural strength & practicality of glass

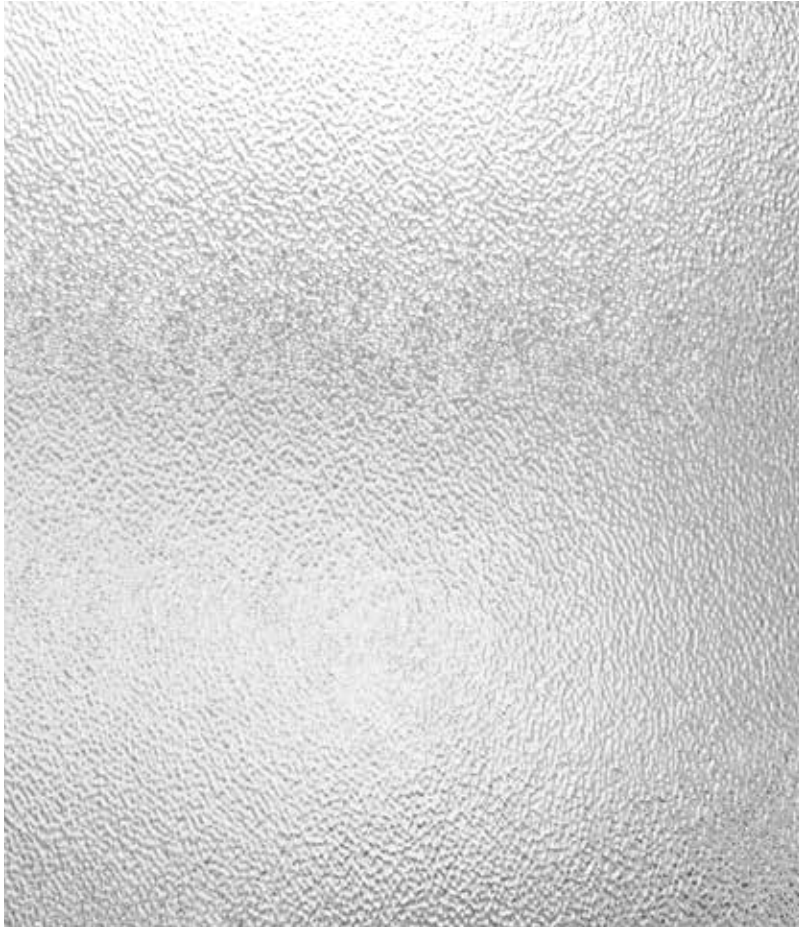


The interlayer acts as a security film resisting any kind of intrusion or impact, thus ensuring safety



Its acoustic property dampens outside noise





AIS Etched Glass

AIS Etched Glass is a designer glass range from AIS. It is created by applying an acidic or abrasive substance on the glass surface to create artistic patterns or designs.

Benefits:



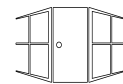
Offers countless innovative ideas in glass



A multitude of designs can be created as per customers' requirements



Enhances aesthetic appeal



Used for windows, façades, doors, partitions, etc.

AIS Printed Glass

AIS Printed Glass is a modern alternative to canvas printing. This type of glass is created using digital graphics.

Benefits:



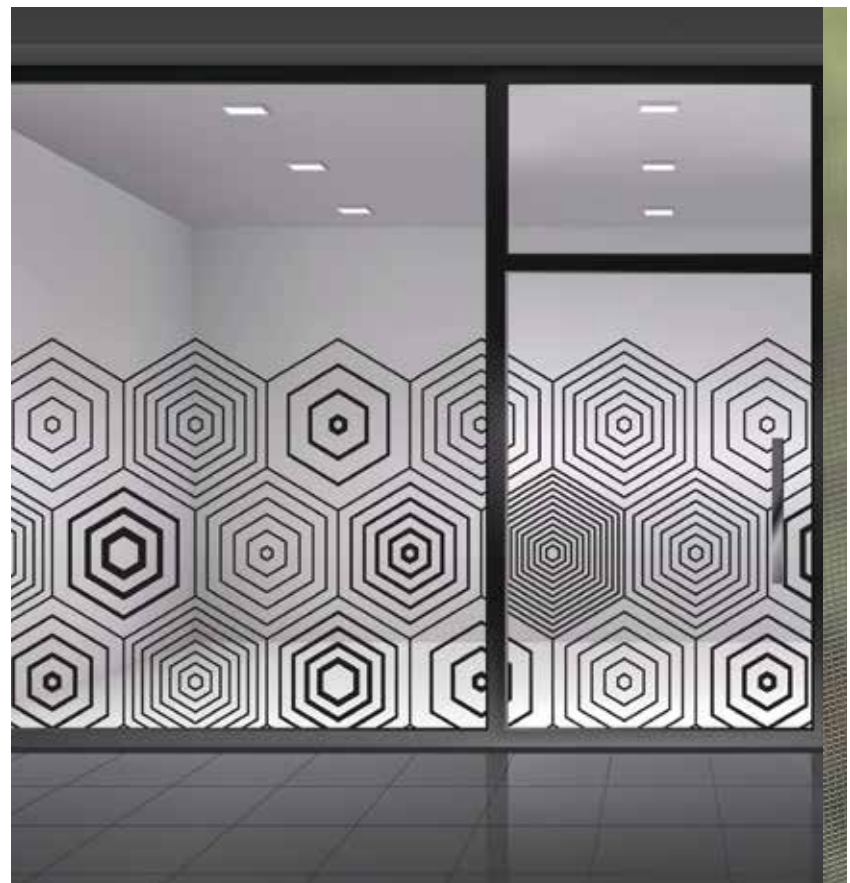
Useful for decorative purposes



Aesthetically pleasing

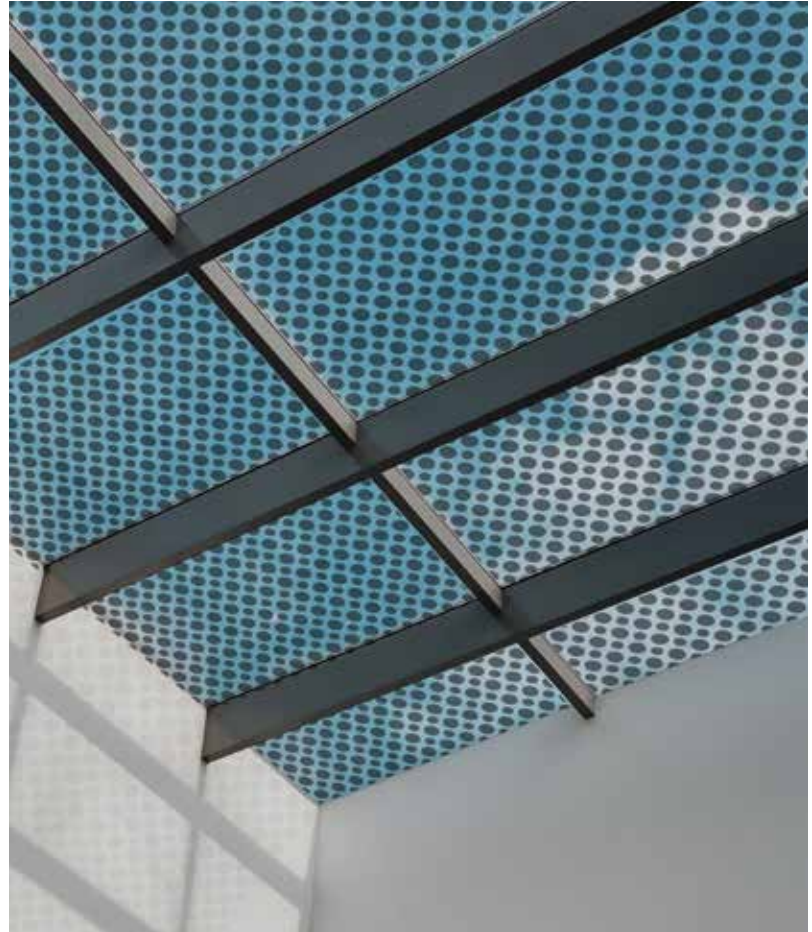


Play with various colours and shades



AIS Ceramic Frit

AIS Ceramic Frit is a type of enamelpainted tempered glass that can be used for decorative purposes. It can be used in curtain walls, glazing systems, shower cubicles, glass doors, and partitions in architectural interiors & exteriors.



AIS Mesh-Laminated Glass

AIS Mesh-Laminated Glass combines transparency, rigidity, and the encapsulating qualities of glass, with the depth, added strength, and decorative qualities of the meshes. It encapsulates mesh inside sheets of laminated glass where a special grade of PVB interlayer is sandwiched between the glass.

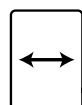
Benefits:



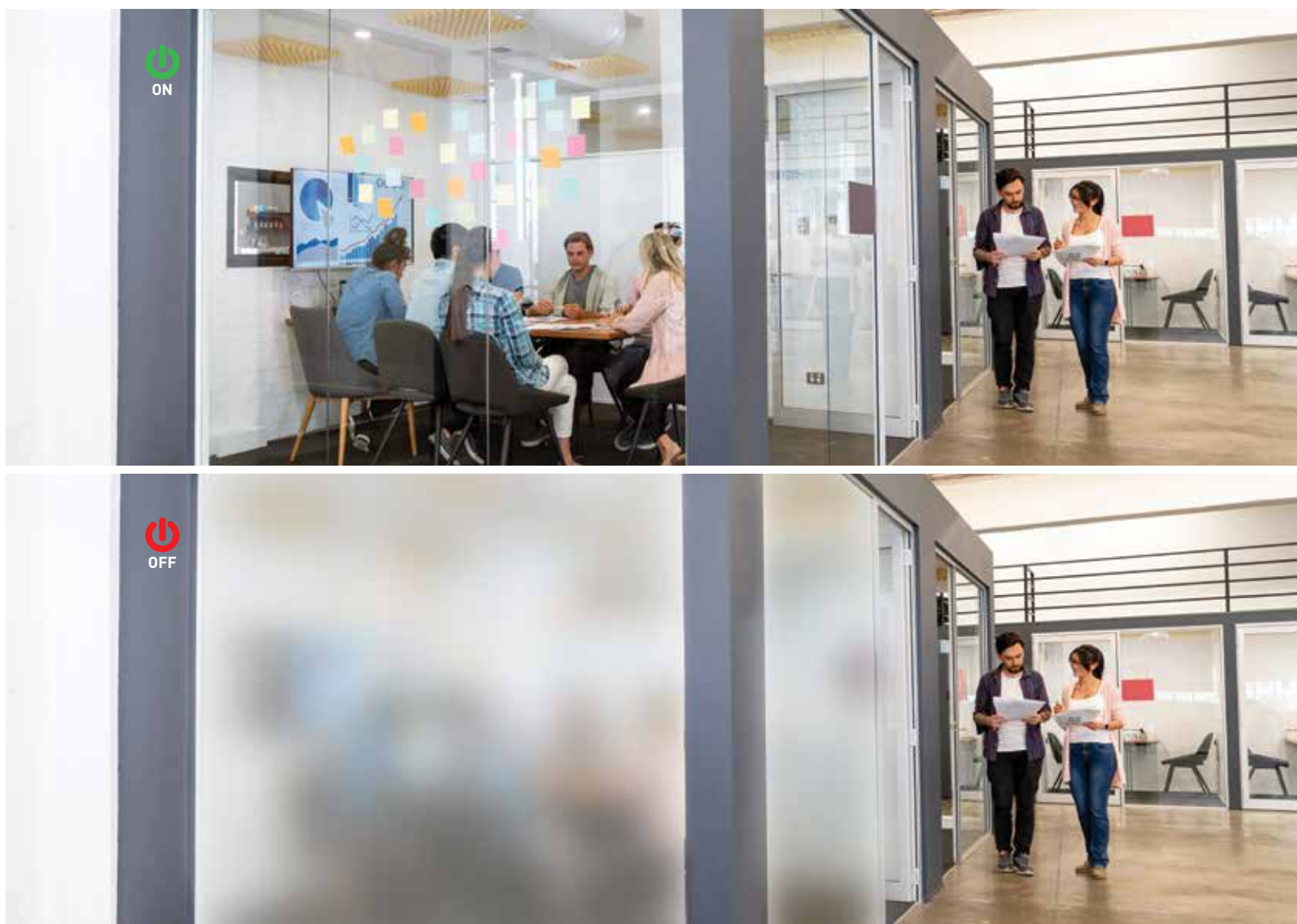
Offers countless innovative ideas in glass



The PVB interlayer ensures better adhesion, and acoustic & impact toughness



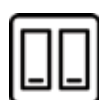
Can be used for a wide range of applications such as glass flooring, decorative glass doors, etc.



AIS Swytchglas

AIS Swytchglas, which has the power to control transparency, is the cutting-edge in glass technology making it the smartest glass around. It turns from transparent glass to translucent, at the flick of a button.

Benefits:



Works with an electric switch or a remote-control device



Activates in less than 10 microseconds



Works in temperatures ranging from 0 degrees C to 55 degrees C



Blocks harmful UV rays and up to 50% light in 'Off' mode



The interlayer behaves as a security film ensuring safety



Its acoustic properties dampen outside noise



A variety of colour tints are possible

State-Of-The-Art Facilities

Until recently, glass was considered a fragile material and its usage was therefore limited. Today, with the development of innovative construction techniques and glass-processing methods, glass is manufactured to deliver superior performance and added value. Our manufacturing units are equipped with state-of-the-art machinery that deliver a whole range of high quality processed and value-added glass products that meet international standards.

These plants are located at:

- Roorkee, Uttarakhand (North)
- Taloja, Maharashtra (West)

Capabilities of our facilities

- Glass preprocessing is carried out in all these facilities with multiple lines of machinery for drilling, cutting, and grinding to ensure seamless and end-to-end glass solutions
- Highly trained technicians who conduct stringent quality tests
- State-of-the-art machinery to offer a wide variety of shapes and sizes, customized to precise requirements
- World-class drilling, grinding, and cutting equipment to provide quick and precise holes and edges as per requirement
- Fully equipped to handle both soft-coat as well as hard-coat glass products
- To improve efficiency, we use specialized equipment such as: Tamglass Tempering Furnace that can temper glass products including clear float glass, ultraclear glass, coloured glass, Low-E glass, and hard- and soft-coated glass



Quality Standards

Certified to the highest levels of quality

At AIS, we do not compromise on quality of the product that we deliver. Our products are put through stringent inspections in our well-equipped laboratory and testing facilities, to ensure highest quality. After inspection, they are stored in a clean environment. All our products adhere to the following international standards:

- ISO 9001:2015 Certified
- IS 2553 Part-1 for tempered & laminated glasses
- IS 2553 Part 2 (Tempering)

Tests:

Toughened Glass/tempered glass	
Test Name	Ref Standard
Edge Lift	IS 2553 Part-1
Four Point Bending	Yes
Resistance to human Impact	Yes

Laminated Glass	
Test Name	Ref Standard
Thickness & Dimension	IS 2553 Part-1
Edge Displacement	Yes
Light Stability	Yes
Fracture & Adhesion Test	Yes
Humidity	Yes
Resistance to Human Impact	Yes

Product Name	Test Conducted	Reference Standard
Toughened Glass	Thickness & Dimension Test	IS 2835
	Roller Waviness Test	ASTM C 1651
	Compressive Stress Measurement	EN 12150-1
	Fragmentation Test	IS 2553-1
	Ball Drop Test	IS 2553-1
	Bend / Bow Test	IS 2553-1
	Local Bow	IS 2553-1
	Overall Bow	IS 2553-1
Insulated Glass Unit	Thickness & Dimension Test	EN 1279-1
	Climate Test	EN1279-6
	Initial Dew / Frost Point	JIS R 2309
	Initial Moisture Content	EN1279-2
	Climatic Exposure (Part-1 & Part-2)	EN 1279-2 & EN1279-6
	Final Dew / Frost Point	JIS R 2309
	Final Moisture Content	EN 1279-2
	Butter y Test	ASTM E 2190-02
	Desiccant Test	ASTM E 2190-02
	Hardness Test	ASTM E 2190-02
	Peel O & Pot Life Test	ASTM E 2190-02
Laminated Glass	Boil Test	ASTM C 1172-03
	Bake Test	ASTM C 1172-03
	Pummel Test	ASTM C 1172-03

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Asahi India Glass Ltd.
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