



ecosense  
The green standard in glass



**EMPOWERING  
EFFICIENCY,**  
DELIVERING EXCELLENCE







## AIS – ENABLING A FUTURE TO SEE MORE

Asahi India Glass Ltd. (AIS) is India's leading integrated glass and window solutions company and a dominant player both in the automotive and architectural glass segments. It commands over a majority share of more than 45% in the architectural value added glass segment and over 70% share in the Indian passenger car glass segment. Established in 1984, AIS' footprint today spans the entire spectrum of the automotive and architectural glass value chains.

Ecosense is a next-gen, high-performance glass from AIS which is developed specifically for Indian climatic conditions. This product is a perfect example of AIS' strength of being innovative in the product development and industry thought leader. We at AIS, believe in providing an ideal solution with the aim of achieving customer delight.

AIS caters to customers in domestic as well as international markets.

# AIS PROVIDES CUSTOMIZED PRODUCTS WITH END-TO-END SOLUTIONS

Glasses for exteriors require a lot of consideration of different factors which impact glazing solutions. Hence, through 4G solutions, we enable our customer in selecting right optimum products as per their requirement. the 4G Solution, we provide:



## Glass Products

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



## Glass Selection

Help customers throughout the glass selection process with the help of advanced in-house technical services which cover energy consumption, artificial and natural lighting, wind-load, acoustic, rendering to name a few glass integrations.



## Glass Processing

We provide all kind of glass processing as per application requirement.

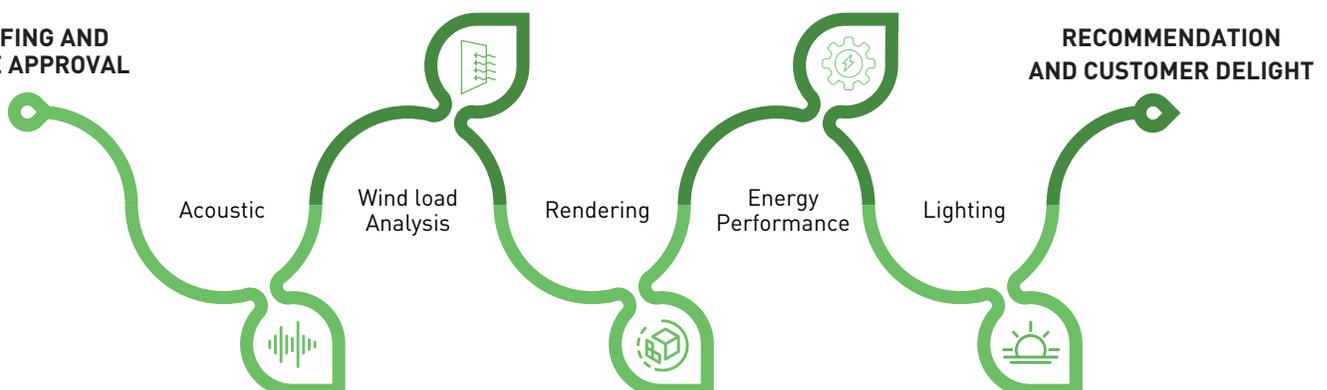


## Glass Integration

Through 4G solution we provide a 360-degree guidance from right product to right process and thus selecting the right glazing solution. Hence, integrating the whole selecting process.

## 360-DEGREE GLASS SOLUTIONS FOR COMPLETE CUSTOMER DELIGHT

**BRIEFING AND SHADE APPROVAL**

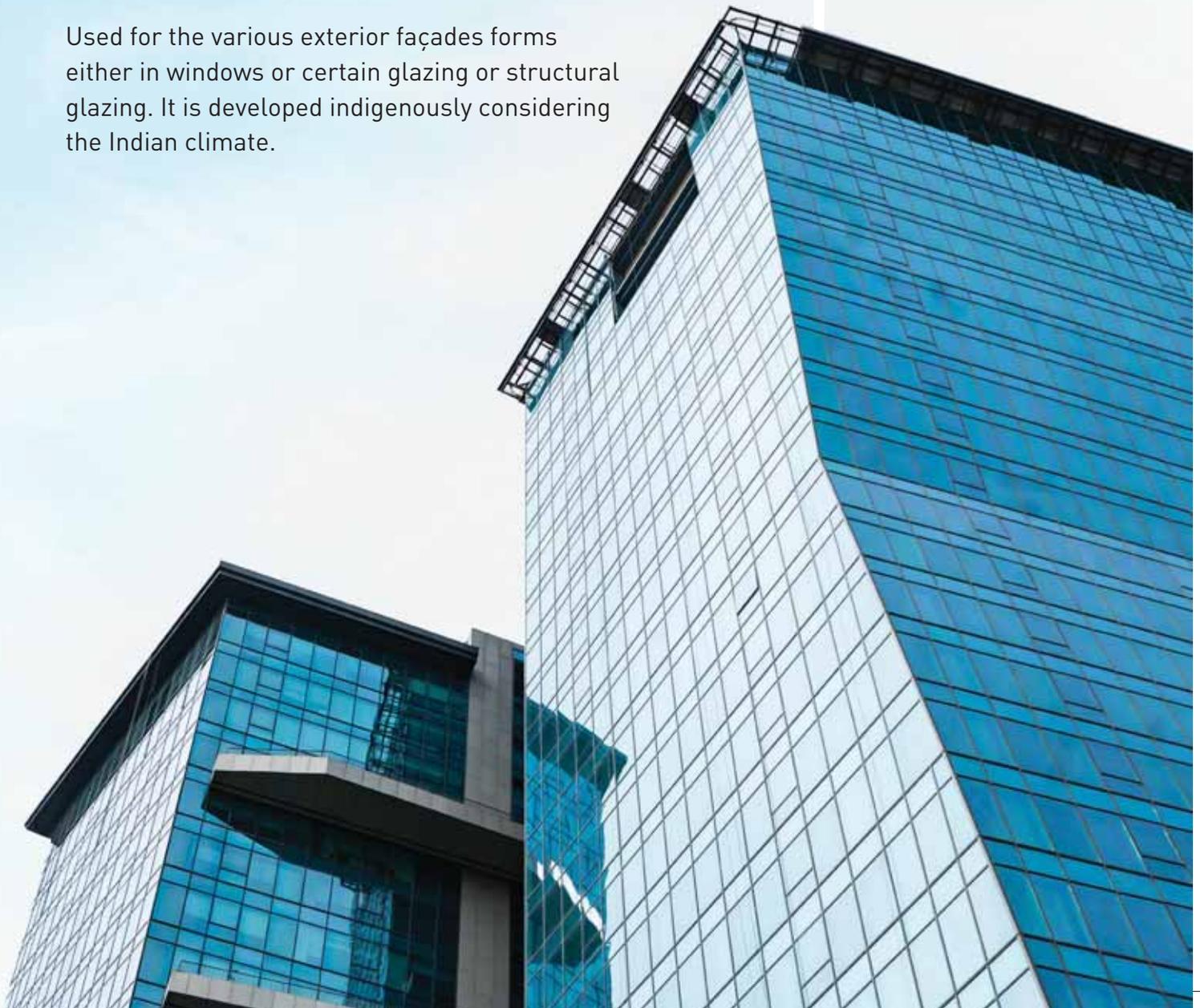


# THE GREEN STANDARD IN GLASS

The AIS Ecosense range of high- performance, energy-efficient products, provide the right blend of energy-efficiency, visual comfort, thermal control, and aesthetic.

A natural choice for eco-friendly architecture, the AIS Ecosense range of glass products provide the perfect balance between the outdoors and indoors, aesthetics and economics, function and finesse.

Used for the various exterior façades forms either in windows or certain glazing or structural glazing. It is developed indigenously considering the Indian climate.



# RANGE OF AIS ECOSENSE PRODUCTS

## Shades available

- Neutral Series: Spring, Nimbus, Aura, Nectar, Dawn, Ivory, Snow, Solaris
- Blue Series: Sky, Oasis, Oceanic Blue Plus
- Gold
- Green Series: Eco, Zest, Fern

## AIS Ecosense Enhance

It is a solar control glazing solution that lets you stay close to nature. It is ideal for tropical nations like India where cooling needs outweigh heating needs.

### Benefits

- Significantly reduces direct solar radiation
- Enhances energy efficiency
- Increases daylight
- Reduces your electric bill



## AIS Ecosense Exceed

The exceed range of glasses is a perfect balance of solar control and low emissivity properties, which combine energy efficiency and aesthetics. It can only be used in the IGU.

### Benefits

- Spectrally selective glass
- Excellent for use with high WWR
- Ideal for the green building concept



## Shades available

- Neutral Series: Clear Lite Plus, Clear Radiance, Clear Vision Plus, Clear Brook Plus, Clear Priva, Clear Comfort, Clear Platina
- Blue Series: Tropic Blue, Electric Blue, Blue Berry Plus
- Gold Series: Aurelia

## Shades available

- Neutral Series:  
Clear Essence Plus

## AIS Ecosense Essence

AIS Ecosense Essence is developed with a modern, low-e coating to help achieve energy efficiency, and it will also help with the insulation of the building. It can only be used in the IGU.

### Benefits

- Provides enhanced thermal insulation
- Allows better visible light transmission
- Suitable for colder climate.



## AIS Ecosense Edge

The Edge series is a solar control glass with thermal insulation. It can be used in single-glazing applications.

### Benefits

- Aids in increased energy savings
- Increases environmental benefits through solar and thermal insulation
- Appropriate for use in "green" homes
- High-performance glass that reduces direct and indirect heat



## Shades available

- Neutral Series: Natura Plus,  
Natura Advantage, Natura

# TECHNICAL SPECIFICATIONS

## AIS Ecosense Enhance – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			W/m <sup>2</sup> K
		%	%	%	%		

### 6 mm (Solar Control Glass)

Spring	Neutral	65	21	24	69	0.79	5.7
Nimbus	Neutral	54	21	14	59	0.68	5.4
Aura	Neutral	53	25	21	58	0.67	5.7
Nectar	Neutral	37	22	16	45	0.52	5.3
Dawn	Neutral	29	20	34	43	0.50	5.7
Ivory	Neutral	23	34	19	34	0.39	4.9
Snow	Neutral	23	26	36	38	0.44	5.7
Solaris	Neutral	8	44	36	14	0.16	3.6
Sky	Blue	43	24	4	44	0.51	5.2
Oasis	Blue	30	17	26	41	0.47	4.8
Oceanic Blue Plus	Blue	22	20	29	33	0.38	5.0
Gold	Gold	49	26	27	58	0.67	5.7
Eco	Green	51	21	6	55	0.63	5.2
Zest	Green	43	23	4	47	0.54	5
Fern	Green	27	36	3	36	0.41	5

### 6 mm (Solar Control Glass) - 12 mm (Air Gap) - 6 mm (Clear Glass)

Spring	Neutral	59	24	26	60	0.70	2.8
Aura	Neutral	48	27	25	46	0.53	2.8
Nimbus	Neutral	47	23	18	48	0.55	2.8
Nectar	Neutral	32	23	21	35	0.39	2.7
Dawn	Neutral	26	21	35	33	0.38	2.8
Snow	Neutral	21	27	36	28	0.32	2.8
Ivory	Neutral	20	34	23	25	0.29	2.6
Solaris	Neutral	7	43	33	9	0.10	1.9
Sky	Blue	37	25	11	34	0.39	2.8
Oasis	Blue	27	17	29	31	0.36	2.5
Oceanic Blue Plus	Blue	21	21	29	25	0.30	2.5
Gold	Gold	44	27	29	48	0.56	2.8
Eco	Green	45	23	12	44	0.51	2.8
Zest	Green	38	25	11	38	0.44	2.7
Fern	Green	24	36	10	27	0.31	2.7

## AIS Ecosense Exceed Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			

6 mm (Solar Control Low-E Glass) – 12 mm (Air Gap) – 6 mm (Clear Glass)

Clear Lite Plus	Neutral	54	15	11	38	0.44	1.7
Clear Radiance	Neutral	47	22	14	35	0.40	1.7
Clear Vision Plus	Neutral	39	23	13	29	0.33	1.7
Clear Brook Plus	Neutral	33	39	21	22	0.25	1.6
Clear Priva	Neutral	30	31	17	22	0.26	1.7
Clear Comfort	Neutral	30	25	14	24	0.28	1.7
Clear Platina	Neutral	27	40	16	21	0.24	1.7
Tropic Blue	Blue	44	16	16	34	0.39	1.8
Electric Blue	Blue	36	23	17	31	0.36	1.8
Blue Berry Plus	Blue	25	23	18	22	0.25	1.8
Aurelia	Gold	30	41	46	24	0.28	1.6

## AIS Ecosense Edge – Performance Parameters

6 mm (Solar Control & Thermal Insulation Glass)

Natura Plus	Neutral	45	20	6	42	0.48	4.6
Natura Advantage	Neutral	34	23	8	34	0.39	4.0
Natura	Neutral	28	27	10	30	0.35	3.7

6 mm (Solar Control & Thermal Insulation Glass) – 12 mm (Air Gap) – 6 mm (Clear Glass)

Natura Plus	Neutral	40	22	12	33	0.38	2.4
Natura Advantage	Neutral	30	24	14	25	0.29	1.9
Natura	Neutral	25	28	16	24	0.28	2.0

## AIS Ecosense Essence – Performance Parameters

6 mm (Low-E Glass) – 12 mm (Air Gap) – 6 mm (Clear Glass)

Clear Essence Plus	Neutral	71	10	12	53	0.61	1.8
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# OTHER OFFERINGS BY AIS

## Usage

- Shopfronts
- Partitions
- Doors
- Shelves
- Furniture
- Windows

## AIS Clear Float Glass

Gives a clean and modern look to the exterior façade.

### Benefits

- Distortion-free
- Sleek finish
- Clear



## AIS Tinted Glass

Blocks the sun's heat, allowing the room to remain cool.

### Benefits

- Absorbs 30% to 45% of solar heat
- Enhances the aesthetic appearance of buildings
- Protects against glare



## Usage

- Partitions
- Doors
- Shelves
- Furniture
- Windows

## Shades available

Dark Grey, Green, Bronze,  
Dark Blue, Royal Blue,  
Cool Green, Aqua Blue

## Usage

- Bedrooms & Bathrooms
- Shops & Showrooms
- Hotel Lobbies
- Furniture
- Clinics & Hospitals

## Shades available

- Clear
- Tinted: Bronze, Grey, Royal Blue, Aqua Blue, Cool Green

## AIS Mirror

New-generation, environment-friendly copper- and leadfree mirrors that are available in clear as well as in bronze and grey-tinted shades. It is manufactured using Belgian technology from Glaverbel.

## Benefits

- Distortion-free
- Clear
- Sleek finish



## AIS Opal

Economical range of solar control glass providing value for money.

## Benefits

- Durable coating
- Solar Control Glass
- Available in thicknesses of 3.5 mm, 4 mm and 5 mm in various sizes



## Usage

- Exterior façades
- Windows

## Shades available

Royal Blue, Cool Green, Golden Bronze, White Gold Pearl Grey, Aqua Blue

# OTHER OFFERINGS BY AIS

## Usage

- Partitions
- Doors
- Cabinet doors
- Tabletops
- Kitchens and Bathrooms
- Writing boards

## Shades available

- Available in 26 exciting shades
- Thicknesses: 4 mm, 5 mm and 6 mm

## AIS Décor

An exclusive range of back-painted glass for interior applications.

## Benefits

- Splendid chromatic assortment
- Superior finish, high durability and Lowmaintenance
- Thermal and humidity-resistant



## AIS Stronglas™

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

- Tough
- Durable
- Lowers the risk of impact-resistant breakage



## Usage

- Tabletops
- Shelves
- Facades
- Shower
- Enclosures
- Partitions
- Canopies

## Benefits

- Provides Level 2 and Level 3 protection from burglar attacks
- Eliminates the need for grills or shutters, without compromising on safety
- In the unlikely event of breakage, the PVB interlayer acts as an extra layer of protection
- Effectively reduces sound for better acoustic performance

## Usage

- Windows • Roof • Lights
- Canopies • Domes • Skylights
- Glass lifts

## AIS Securityglas™

A specially toughened, laminated safety glass that provides greater impact-resistance and strength. It is manufactured with a specialised PVB interlayer between two sheets of glass, and this combination of layers provides a high level of intrusion resistance.



## AIS Securityplus

Reinforced by a layer of DuPont Sentry Glass™, AIS Securityplus is up to five times stronger than conventional laminated glasses. The 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

## Usage

- Windows • Roof lights
- Canopies • Domes
- Skylights • Glass lifts

# OTHER OFFERINGS BY AIS

## Benefits

- Works with an electric switch or a remote-control device
- Blocks UV rays that are harmful to the skin
- Works in temperatures ranging from 10 to 50 degrees
- Blocks up to 50% light in 'Off' mode.
- The interlayer behaves like a security film
- Its acoustic properties help dampen outside noise
- Lasts a minimum of 20,000 cycles.
- Low power consumption.
- A variety of colour tints are possible

## Usage

- Windows • Skylights
- Walls and Partitions

## AIS Swytchglas

The cutting-edge glass technology, which has the power to control transparency, making it the smartest glass around. With AIS Swytchglas, you can make transparent glass translucent, to block visibility, at the click of a button.



## AIS Pyrobel

Engineered with a special intumescent layer that helps withstand extreme levels of heat, largely restricts heat transfer and prevents easy passage of smoke and flames. In case of a fire, the interlayer expands and transforms itself into a rigid, opaque and heat-absorbing fire shield.



## Usage

- Partitions
- Writing boards
- Doors for cabinets
- Bathroom windows
- Various interior decorative applications

## Shades available

- Clear, Green, Blue and Bronze  
(Available in a variety of patterns)

## AIS Krystal

AIS Krystal is a frosted glass, which admits light and at the same time obscures the view. It offers quality excellence owing to its superior glass manufacturing techniques.

## Benefits

- Ensures privacy
- Available in a wide range of colours
- Distinctive aesthetic appeal with matte finish



## AIS Windows

Doors and windows are the soul of any building. At AIS, you have a multitude of choices within uPVC and aluminium profiles. Along with aesthetic value, there are other features like safety, security, noise cancelling and environment-friendly profiles that are being offered by AIS Windows. Therefore, we present a range of solutions that suit your taste and your class



## Benefits

- Lowers energy bills
- Environment-friendly
- Energy-efficient
- Secure
- Customizable as per your requirement



Asahi India Glass Ltd.

Platinum Techno Park, 301, Bhagwan Mahaveer Road  
Sector 30, Vashi, Navi Mumbai – 400 703, Maharashtra  
E-mail: [seemore@aisglass.com](mailto:seemore@aisglass.com)  
Tel: (022) 3925 6000 | (033) 4068 1112 / 3 / 4 |  
(080) 2357 1663 / 64 / 65 / 66

[www.aisglass.com](http://www.aisglass.com)

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