



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. Started in 1987, AIS' footprint today spans the entire spectrum of the automotive and architectural glass value chains.

AIS Ecosense is a next-gen, high-performance glass from AIS that has been developed specifically for Indian climatic conditions. This product is a perfect example of AIS' strength of being innovative in product development and an industry pioneer. 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.

THE GREEN STANDARD IN GLASS

Designed and developed indigenously keeping in mind India's unique climatic conditions, the AIS Ecosense range of high-performance, energy- efficient products provide the right blend of energy efficiency, visual comfort, thermal control and aesthetics. A natural choice for eco-friendly architecture that balances the outdoors and the interiors, aesthetics and economics, AIS Ecosense can be used for exterior facades as structural glazing or windows.



AIS PROVIDES CUSTOMISED PRODUCTS WITH END-TO-END SOLUTIONS

Glass for exteriors requires a lot of consideration of different factors which impact glazing solutions. Hence, through 4G Solutions, we enable our customers to select the right product as per their requirements. In the 4G Solutions, we provide:

4G SOLUTIONS



Glass Products

A wide range of high-performance products which include features that enable optical comfort, thermal comfort, safety, indoor environmental quality, and aesthetics.



Glass Selection

We help customers throughout the glass selection process with the help of advanced in-house technical services which cover simulation for energy and lighting to get ROI, wind-load, acoustics, etc.



Glass Processing

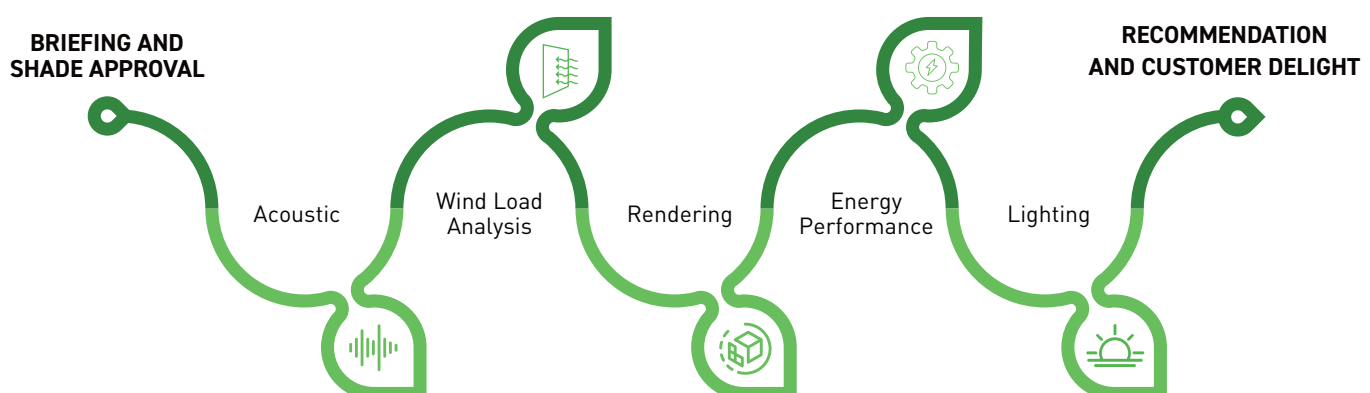
We provide all kinds of glass processing as per application requirements.



Glass Integration

Through AIS' 4G Solutions, we provide 360-degree guidance – integrating the whole glass selection process – from the right product to the right process, thus helping select the right glazing solution.

360-DEGREE GLASS SOLUTIONS FOR COMPLETE CUSTOMER DELIGHT



THE AIS ECOSENSE RANGE

Shades available

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

AIS Ecosense Enhance

A solar-control glazing solution that lets you stay close to nature, AIS Ecosense Enhance is ideal for tropical nations like India where cooling needs outweigh heating requirements.

Benefits

- Significantly reduces direct solar radiation
- Enhances energy efficiency
- Increases daylight penetration
- Reduces electricity bills



AIS Ecosense Exceed

A perfect balance of solar control and low emissivity properties, the AIS Ecosense Exceed range combines both energy efficiency and aesthetics to deliver on glazing requirements and can only be used in an IGU*.

Benefits

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



Shades available

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

* Insulated Glass Unit * Window Wall Ratio

Shades available

- **Neutral Series:**
Clear Essence Plus
- **Green Series:**
Green Essence Plus

AIS Ecosense Essence

A modern, low-e glass product that can only be used in an IGU*, AIS Ecosense Essence helps with the insulation of the building, helping achieve energy efficiency.

Benefits

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



AIS Ecosense Edge

Developed for use in single-glazing applications, AIS Ecosense Edge is a solar control glass product that provides excellent thermal insulation. AIS Ecosense Edge Natura and Chroma series is the newest addition in high-performance glass.

Benefits

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

Shades available

- **Neutral Series:**
Natura Lite
Natura Pro
Natura Select
Natura Plus
Natura Advantage
Natura
- **Green Series:**
Chroma Lite
Chroma Pro
Chroma Select
Chroma



* Insulated Glass Unit

SPECIAL PRODUCTS

AIS Ecosense Spectra

AIS Ecosense Spectra is a flagship coated glass product designed for high performance and energy efficiency. With its better selectivity, it is the perfect choice for green projects, enabling cool and comfortable living spaces while minimising environmental impact.



Benefits

- High selectivity of 1.6
- Optimal light transmission of 40%
- 95% CRI for better visibility from indoors
- Exceptional solar control with low-E glass

AIS Edge Natura

The **all-new Lite, Pro, and Select** variants of the AIS Edge Natura glass series represent a breakthrough in energy-efficient and sustainable glass offerings. These glass products are designed for outstanding external and internal reflection properties.



Benefits

- Wide VLT range for balanced natural light and heat control
- Low-E glass for cost-effective performance
- Optimised SHGC values
- Ideal for both residential and commercial projects
- Selectivity over 1.2 for energy efficiency
- UV protection

AIS Edge Chroma

Available in the **all-new Lite, Pro, and Select** variants, the AIS Ecosense Chroma series is a green-tinted, high-performance glass that offers remarkable solar control and thermal insulation.



Benefits

- Green-certified product
- High selectivity for cooler indoor environments
- Low external reflectance
- Optimised VLT for brighter interiors
- Wide applicability across commercial, healthcare, and luxury residential buildings
- Advanced UV protection

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/M² – °K
		%	%	%	%		

6 mm (Solar Control Glass)

Spring Plus	Neutral	67	17	18	68	0.78	5.6
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	0.49	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
Meadow	Green	56	14	21	48	0.56	5.7
Eco	Green	51	21	6	55	0.63	5.2
Coral	Green	44	19	22	46	0.53	5.7
Zest	Green	43	23	4	47	0.54	5
Lime	Green	31	17	16	37	0.43	5.7
Fern	Green	27	36	3	36	0.41	5
Gold	Gold	49	26	27	58	0.67	5.7

AIS Ecosense Edge – Performance Parameters

6 mm (Solar Control & Thermal Insulation Glass)

Natura Lite	Neutral	66	11	4	55	0.63	4.5
Natura Pro	Neutral	55	12	3	44	0.51	4.1
Natura Select	Neutral	46	17	4	37	0.43	4.0
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	0.34	3.7
Chroma Lite	Green	54	8	4	42	0.48	4.4
Chroma Pro	Green	45	9	3	35	0.40	3.9
Chroma Select	Green	38	12	4	32	0.37	4.0

* The VLT and SHCG computations and terminologies are in compliance with ISO 9050, while the U-Value is in accordance with EN 673.
* Manufacturing tolerances can cause variations in the performance values displayed, which are otherwise nominal and as per 1096 EN.
* The given performance values depict the centre of the glass, excluding any spacer system or framing.
* AIS reserves the right to alter product performance characteristics without prior notification or obligation.

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/M² – °K
		%	%	%	%		
6 mm [Solar Control Glass] - 12 mm [Air Gap] - 6 mm [Clear Glass]							
Spring Plus	Neutral	60	21	22	59	0.68	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	0.40	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	0.29	2.5
Meadow	Green	49	17	25	39	0.44	2.8
Eco	Green	45	23	12	44	0.51	2.8
Coral	Green	39	20	25	35	0.4	2.8
Zest	Green	38	25	11	38	0.44	2.7
Lime	Green	27	18	20	26	0.3	2.7
Fern	Green	24	36	10	27	0.31	2.7
Gold	Gold	44	27	29	48	0.55	2.8

AIS Ecosense Edge – Performance Parameters

6 mm [Solar Control & Thermal Insulation Glass] – 12 mm [Air Gap] – 6 mm [Clear Glass]

Natura Lite	Neutral	59	15	12	44	0.51	2.3
Natura Pro	Neutral	49	15	11	34	0.39	2.1
Natura Select	Neutral	41	19	11	28	0.33	2.0
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
Chrome Lite	Green	48	11	11	34	0.39	2.5
Chrome Pro	Green	40	11	11	28	0.32	2.2
Chrome Select	Green	34	14	11	24	0.28	2.2

* The VLT and SHCG computations and terminologies are in compliance with ISO 9050, while the U-Value is in accordance with EN 673.
* Manufacturing tolerances can cause variations in the performance values displayed, which are otherwise nominal and as per 1096 EN.
* The given performance values depict the centre of the glass, excluding any spacer system or framing.
* AIS reserves the right to alter product performance characteristics without prior notification or obligation.

TECHNICAL SPECIFICATIONS

AIS Ecosense Exceed – Performance Parameters

Glass Details		Light Factors			Energy Factors		
Product Name	Shade	Transmission	Reflection		SF	SC	U-Value
			External	Internal			W/M² – °K
		%	%	%	%		

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 Pro	Neutral	40	31	18	28	0.32	1.6
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	0.25	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
Green Lite Plus	Green	47	14	11	29	0.33	1.7
Green Radiance	Green	42	18	14	27	0.30	1.7
Green Vision Plus	Green	34	19	13	22	0.25	1.7

AIS Ecosense Spectra – Performance Parameters

6 mm [Solar Control Low-E Glass] – 12 mm [Air Gap] – 6 mm [Clear Glass]

Spectra	Neutral	40	38	29	25	0.28	1.5
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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
Green Essence Plus	Green	59	9	11	37	0.43	1.8

* The VLT and SHCG computations and terminologies are in compliance with ISO 9050, while the U-Value is in accordance with EN 673.
* Manufacturing tolerances can cause variations in the performance values displayed, which are otherwise nominal and as per 1096 EN.
* The given performance values depict the centre of the glass, excluding any spacer system or framing.
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OTHER OFFERINGS FROM AIS

Usage

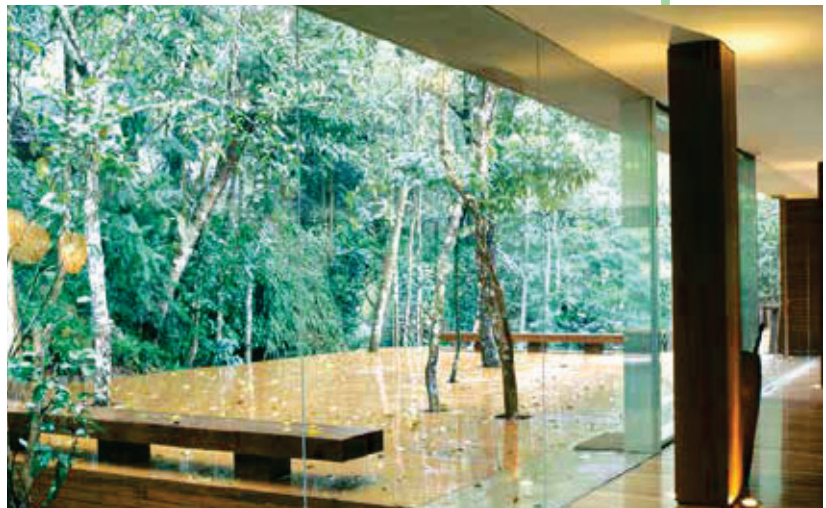
- Shopfronts
- Partitions
- Doors
- Shelves
- Furniture
- Windows

AIS Clear Float Glass

Gives facades a clean and modern look.

Benefits

- Distortion free
- Sparkling surface
- Clarity in vision



AIS Tinted Glass

Blocks the sun's heat, allowing 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

AIS Mirror

New-generation, environment-friendly copper-and-lead-free 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
- Environment friendly
- Durable
- Ideal in hot and humid environment



AIS Opal

Economical range of energy-efficient solar control glass that provides value for money.

Benefits

- Durable coating with anti-fade properties
- 10-year warranty
- Available in thicknesses of 3.5 mm, 4 mm and 5 mm in various sizes



Usage

- Facades
- Windows

Shades available

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

Usage

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

Shades available

- 30+ vibrant and exciting shades

AIS Décor

AIS Décor is a back-painted, lacquered durable interior glass that has a unique and coloured opaque appearance. Easy to use and maintain, it is manufactured using special high-quality paint on one side and oven-cured through a unique process and is available in 4 mm, 5 mm and 6 mm thicknesses.

Benefits

- Processing: Can be cut, drilled, ground, beveled, 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)

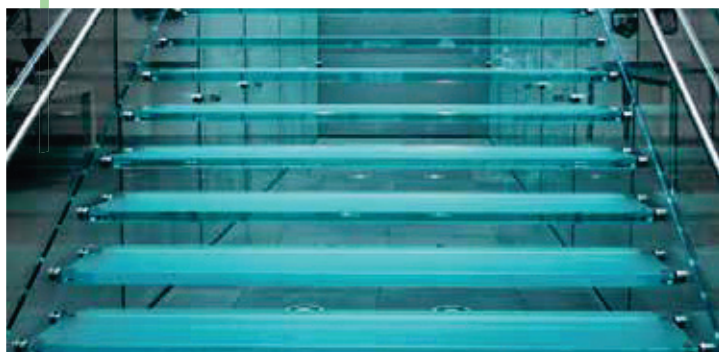


AIS Stronglas™

A 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

- 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 breaking due to thermal stress
- Even in the unlikely case of breakage, the glass breaks into small tiny particles, causing no or minimal damage



Usage

- Tabletops
- Shelves
- Facades
- Shower enclosures
- Partitions
- Canopies
- Railings

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 noise for better acoustic performance

Usage

- Windows • Canopies • Domes
- Skylights • Glass lifts • Facades
- Partitions • Shopfronts

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 SentryGlas®, AIS Securityplus is up to five times stronger than conventional laminated glass. The special interlayer increases the tolerance to greater loads while enabling a design of aesthetically pleasing and complex elements.



Benefits

- 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

- Stairways
- Hurricane-resistant windows & doors
- Explosion-resistant windows, doors & facades

Benefits

- Works with an electric switch or a remote-control device
- Works in temperatures ranging from 10° to 50° C
- Blocks up to 50% light in 'Off' mode
- The interlayer behaves like a security film
- Its acoustic properties help dampen outside noise
- Low power consumption

Usage

- Windows
- Partitions

AIS Swytchglas

A revolutionary smart glass whose cutting-edge technology enables you to control its transparency, and make transparent glass translucent — to enable better privacy — with the click of a button.



AIS Pyrobel

AIS Pyrobel is a high-end, fire-resistant glass range, specially engineered to withstand extreme levels of heat, restrict heat transfer and prevent smoke and flames from spreading.

It is a multi-laminated glass assembled with clear intumescent interlayers. In case of fire, these interlayers expand at around 120° C and transform into a rigid and opaque shield.



Benefits

- Provides safety against fire, heat, and smoke for extended periods
- Protection against radiation and conductive heat transfer
- Double-sided fire-resistant glass, provides protection on both sides

Usage

- Partitions
- Fully glazed fire doors
- Windows
- Data storage and server room enclosures

Usage

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

Shades available

Clear
Green
Blue
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

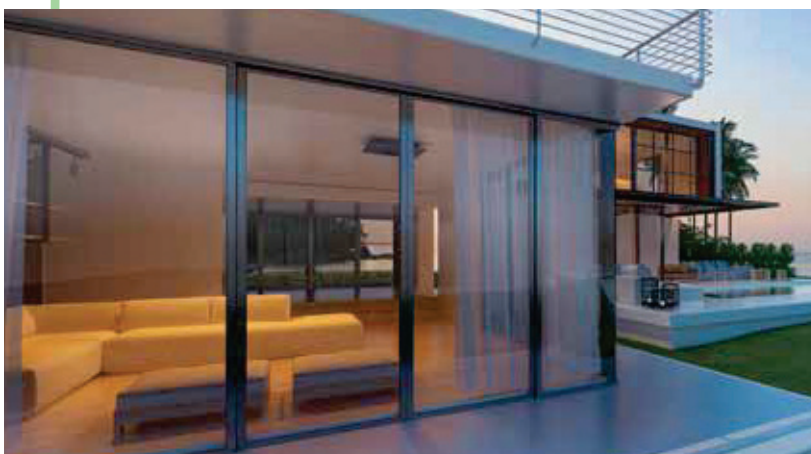
- Ensures privacy and aesthetic appeal
- It has a distinctive matte finish that enhances the aesthetic appeal of the space
- Available in a wide range of colours and patterns



AIS Windows

AIS Windows offers a comprehensive range of fenestration products in uPVC and aluminium substrates. Available in a range of customisable options, AIS Windows is designed for use in both residential and commercial spaces.

AIS Windows enriches lifestyles through enhanced aesthetics while also offering varied solutions in acoustic comfort, privacy, energy-efficiency, anti-pollution, water seepage, and security. It is a one-stop-solution for all your doors and windows needs.



Benefits

- Dust protection
- Energy efficiency
- Acoustics
- Privacy solution
- Prevents water seepage
- Safety and security solutions



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