



ENABLING WONDERS.  
INSPIRING AWE.

AIS Architectural Product Profile

# FROM ART TO ARCHITECTURE

Architecture is an emotional experience that begins in the mind of the architect. It starts from a vision that transforms into an art. Just like any artist, the architect gets to play with various materials and ideas. Glass is the latest material that is allowing architects to interpret space in a whole new way, inspire creative designs, and create structures that reflect beauty.

AIS has the knowledge, expertise, and an unmatched array of products to bring an artistic idea from a vision to a masterpiece.





Cummins, Pune

# ENABLING A FUTURE THAT SEES MORE

AIS is India's leading integrated glass company. Being a leader, AIS delivers top-of-the-line products and solutions through three Strategic Business Units (SBUs) of Automotive Glass, Architectural Glass and Consumer Glass.

We use our glass product portfolio – which is 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 special glass products, that enables us to meet your every need, and fulfil every requirement.

And help you realise your dream house in glass.



# ARCHITECTURAL GLASS

Architectural Glass, or float glass, is manufactured by floating the molten glass on a bed of molten metal, typically tin. This method gives the glass product uniform thickness and a very flat surface. Float glass is the primary glass product on which all other value-additions are done to enable glass to do more.



## AIS Clear Float Glass

AIS Clear Float Glass is a high-quality clear glass with high-precision flatness (surface smoothness). This glass ensures 100% distortion-free vision as it is manufactured using a quality-controlled process in the AIS state-of-the-art facilities.

### Benefits:

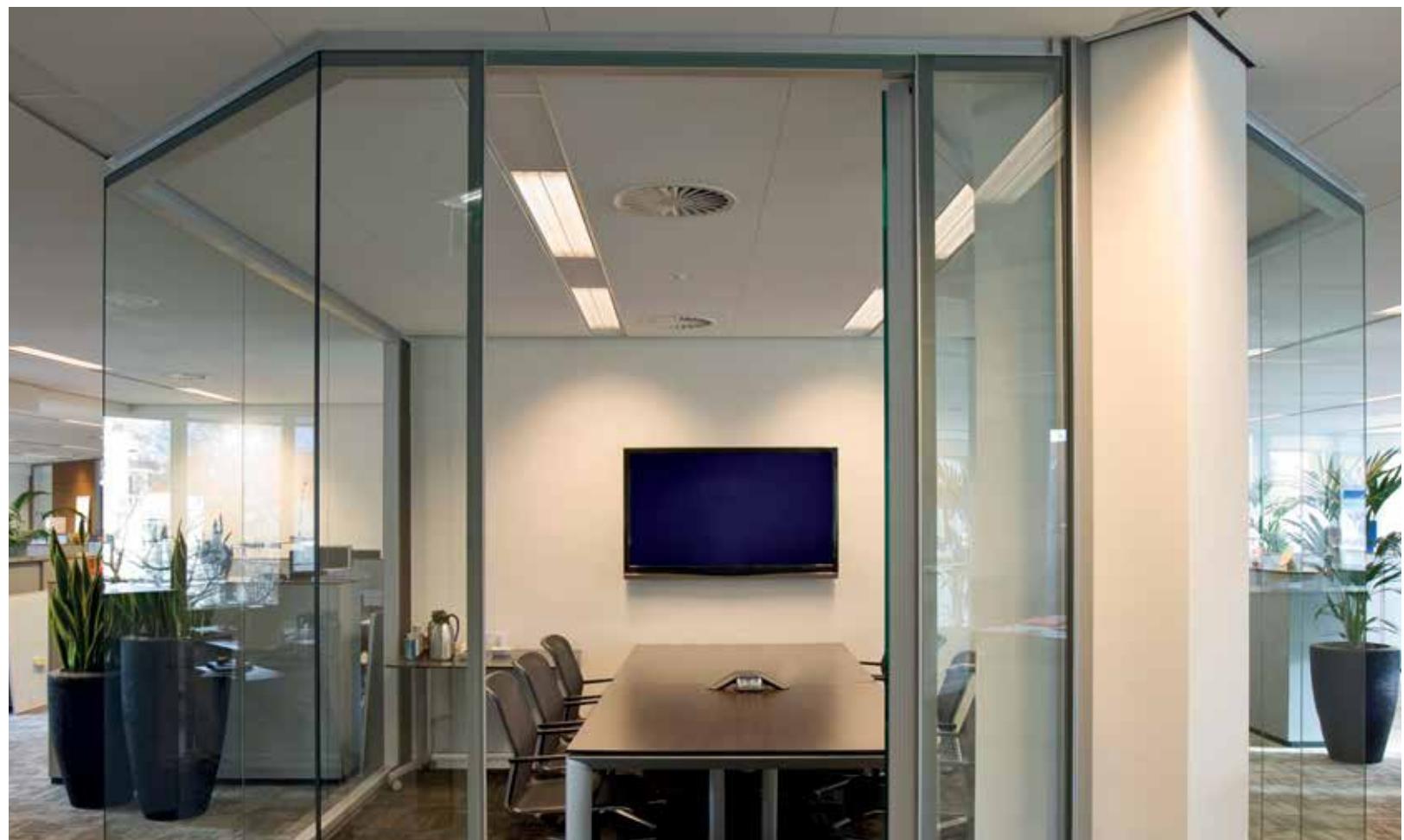
- It is characterised by its uniform thickness and smooth surface which ensure crystal-clear vision
- Has a sparkling and brilliant lustre
- Allows various processing techniques such as insulation, glazing, lamination, thermal toughening, enamelling, silk-screen-printing, sandblasting, acid-etching, and bending

## AIS Tinted Glass

AIS Tinted Glass is manufactured by adding certain metal oxides to the raw material which imparts a tint and adds heat-absorbing properties to the glass.

### Benefits:

- Absorbs 30% to 45% of solar heat (depending on tint and thickness), thus reducing air-conditioning usage and energy costs
- Protects against glare and harmful UV rays
- Improves the aesthetics of the surroundings



## ENERGY-EFFICIENT GLASS – FOR BUILDINGS THAT ARE SUSTAINABLE

Energy-efficient glass products limit the ingress of heat, and avoid excessive solar heat buildup and visible glare in the interiors. Energy-efficient glass products are manufactured by depositing various coatings on the glass, striking the right balance between energy-efficiency and aesthetics.



## Range of Ecosense Products



The Ecosense range of products provide the right blend of daylight and energy saving, visual comfort and thermal control, technology and eco-sensitivity. The range of our Ecosense products include: Enhance, Exceed, Essence, Edge, and Excel.

Shades available: Clear, Blue, Green, Grey\*, and Bronze\*

Our Ecosense range of products are GreenPro- and GRIHA-certified.



Supreme Headquarters, Pune

### Ecosense Enhance



Ecosense Enhance is a solar-control glazing solution that lets you stay close to nature.

Benefits:

- Improves energy efficiency and daylight parameters
- Helps reduce electricity bills
- Allows the optimum amount of light to pass through

### Ecosense Essence



Ecosense Essence is developed with a modern, Low-e coating to help buildings achieve energy-efficiency along with environmental benefits.

Benefits:

- Ensures enhanced thermal insulation
- Allows better visible light transmission

\*Ecosense Grey and Bronze shades are manufactured on customised demands.

## Ecosense Exceed



The Exceed range of glass is a solar-control, Low-e, double-glazed solution that combines energy efficiency and aesthetics.

Benefits:

- Eco-friendly
- Ideal for 'green building' concept

## Ecosense Edge



The Edge series is a solar-control glass with thermal-insulation and Low-e properties which can be used in single-glazing applications.

Benefits:

- Helps in better energy savings
- Suitable in Green homes
- Delivers better environmental benefits by providing solar and thermal insulation
- High-performing glass which reduces direct as well as indirect heat

## Ecosense Excel



Ecosense Excel is a specialised 'green building' glass with advanced solar-control and double Low-e coating. This glass product comes with excellent thermal insulation and best-in-class solar-control performance.

Benefits:

- Its superior insulation properties help achieve better energy savings
- Provides environmental benefits



## AIS Opal



AIS Opal is a hard-coated, heat-reflective glass, with solar-control properties that reflect the sun's heat away from the building, while allowing natural light to brighten up the interiors.

### Benefits:

- Extremely durable and long-lasting
- Delivers world-class quality, and offers best value for money
- Its cool range of colours are Royal Blue, Aqua Blue, Cool Green, Olive Green, Pearl Grey, and Golden Bronze

## AIS Opal Trendz



AIS Opal Trendz is a first-of-its-kind patterned reflective glass which provides a unique glazing solution. Its solar-control properties block heat and prevent it from entering the building. It enables architects and designers to set new benchmarks, while helping users experience comfort in various colours and styles.

### Benefits:

- Creates a delightful play of light and colour
- Its vibrant shades include: Royal Blue, Aqua Blue, Cool Green, Olive Green, Pearl Grey, and Golden Bronze
- Available in five exciting patterns: Mini Squares, Box Stripes, Cross Hatch, T-Weave, and Bubble Mist

## AIS SunShield



A high-performance product that combines durability with advanced soft-coat, heat-reflective technology, AIS SunShield effectively prevents heat from entering the building.

### Benefits:

- Rich in aesthetics
- Best-in-class solar control technology
- Energy efficiency
- Protection from harmful UV rays
- Reduces glare
- Shades available are: Radiant Amber, Oceanic Blue, Leaf Green, Icy Clear, and Royal Gold



Gomti Nagar, Lucknow



## DESIGNER GLASS - FOR INTERIORS WITH AN ARTISTIC TOUCH

Glass can help create a space that could stretch the borders of your imagination. While glass can be engineered to deliver various functional benefits, it can also enable you to enhance the aesthetics of your building considerably. AIS offers a range of high-quality, innovative glass products that let you express your creativity and enhance the aesthetic appeal of your building, inside out.



## 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 is 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, bevelled, and edge-finished or polished
- Heat-resistant up to 80°C
- Moisture-resistant for use in bathrooms and kitchens. (Avoid regular contact with water)
- UV resistance prevents discolouration
- Shades available are: Black Pearl, Sparkling Beige, Hazel Brown, Stone Grey, Venetian Red, Chrome Yellow, Sparkling White Pearl, Sparkling Snow White, Snow White, Sterling Silver, & Turquoise Green.

Note: For installation guidelines of AIS Décor, please visit [www.aisglass.com](http://www.aisglass.com)

## AIS Mesh Laminated



AIS Mesh Laminated Glass combines transparency, rigidity, and the encapsulating qualities of glass, with the depth, added strength, and the 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 sheets.

Benefits:

- It is durable, secure, safe, and requires low maintenance
- The PVB interlayer ensures better adhesion, for acoustic and impact toughness
- Can be used for a wide range of applications like decorative glass doors, partitions, etc.

## 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:

- Its translucent feature ensures privacy and aesthetic appeal
- It has a distinctive matte finish that enhances the aesthetic appeal of the surroundings
- Comes in four shades – Clear, Green, Blue, and Bronze

Available in a variety of patterns

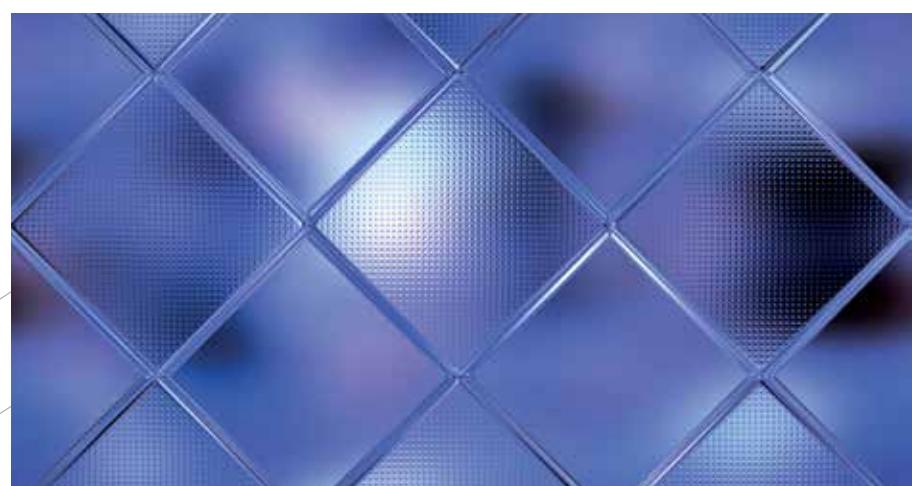
## AIS Disegno



Brilliant reflections, a unique icy appearance, and elegant accents characterise AIS Disegno. Essentially a laminated glass, this special range of glass adds a new dimension by transforming a living space into a work of art.

Benefits:

- Has a transparent veneer with a distinctive crackled appearance
- Enhances the aesthetics of the interiors
- Highly durable
- Ideal for ornamental and decorative use



## AIS Coloured Laminated

AIS Coloured Laminated Glass is manufactured with coloured PVB interlayers, that offer much scope for vibrant shades and designs.

### Benefits:

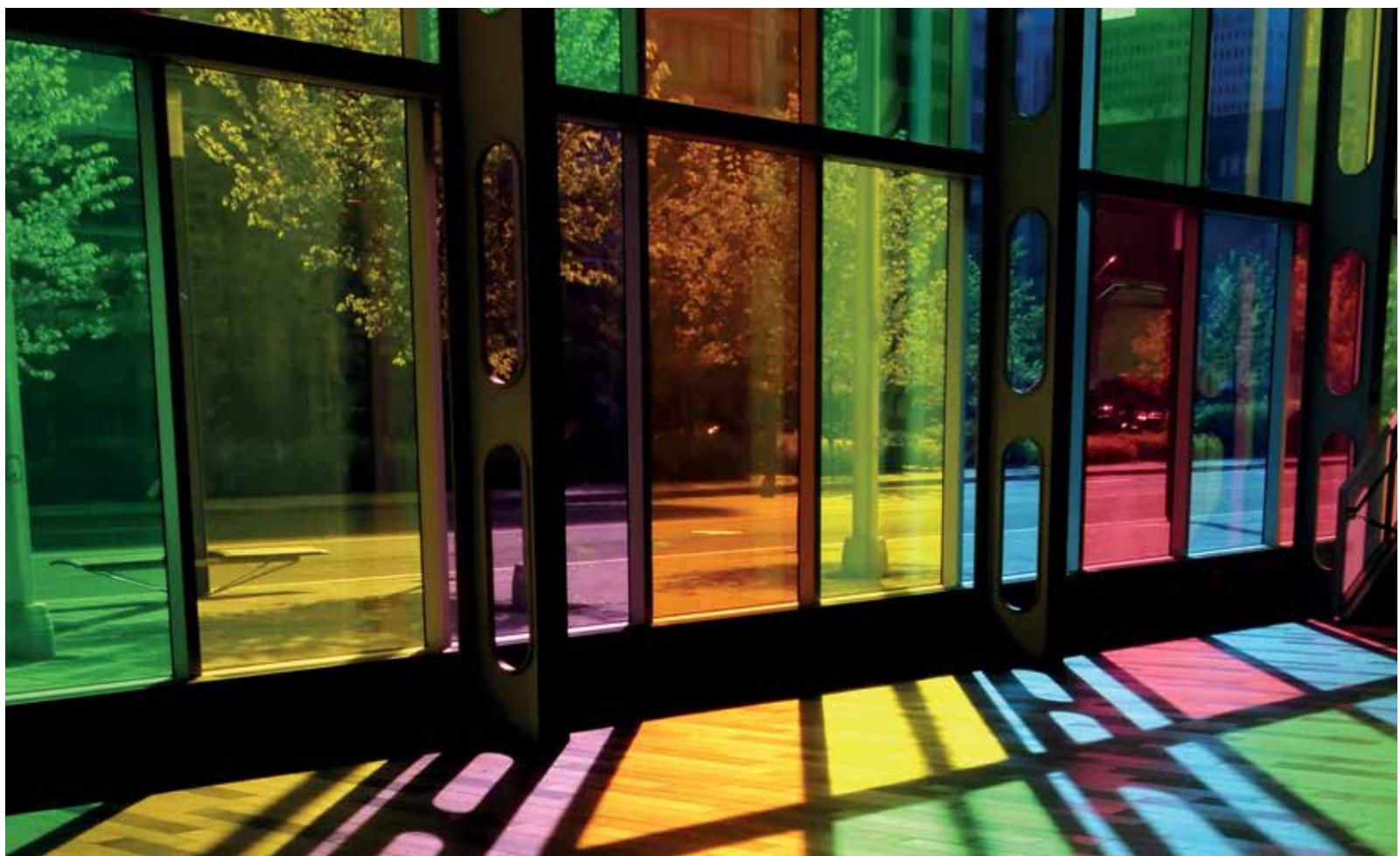
- Enhances aesthetic appeal
- Dynamic colours – both translucent and transparent can be created
- Can be combined with a neutral, solar-control, or thermal-insulated glass
- Suitable for safety, security, sound insulation, as well as UV protection
- Reduced colour fading

## 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 and practicality of glass
- The interlayer behaves as a security film which can resist any kind of intrusion or impact, thus ensuring safety
- Its acoustic property dampens outside noise



## AIS Printed Glass

AIS Printed Glass is the 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 enamel-painted, 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 and exteriors.



## AIS Acid Etched Glass

AIS Acid-Etched Glass is created by applying an acidic or abrasive substance on the glass surface to create artistic patterns or designs. The process involves using a strong acid to cut into the unprotected parts of a glass surface to create designs.

Benefits:

- Offers countless innovative ideas in glass
- A multitude of designs can be created as per customers' requirements
- Enhances the aesthetic appeal of the surroundings
- Used for windows, façades, doors, partitions, etc.

## AIS Mirror

New generation, environment-friendly, copper- and lead-free mirrors.

Benefits:

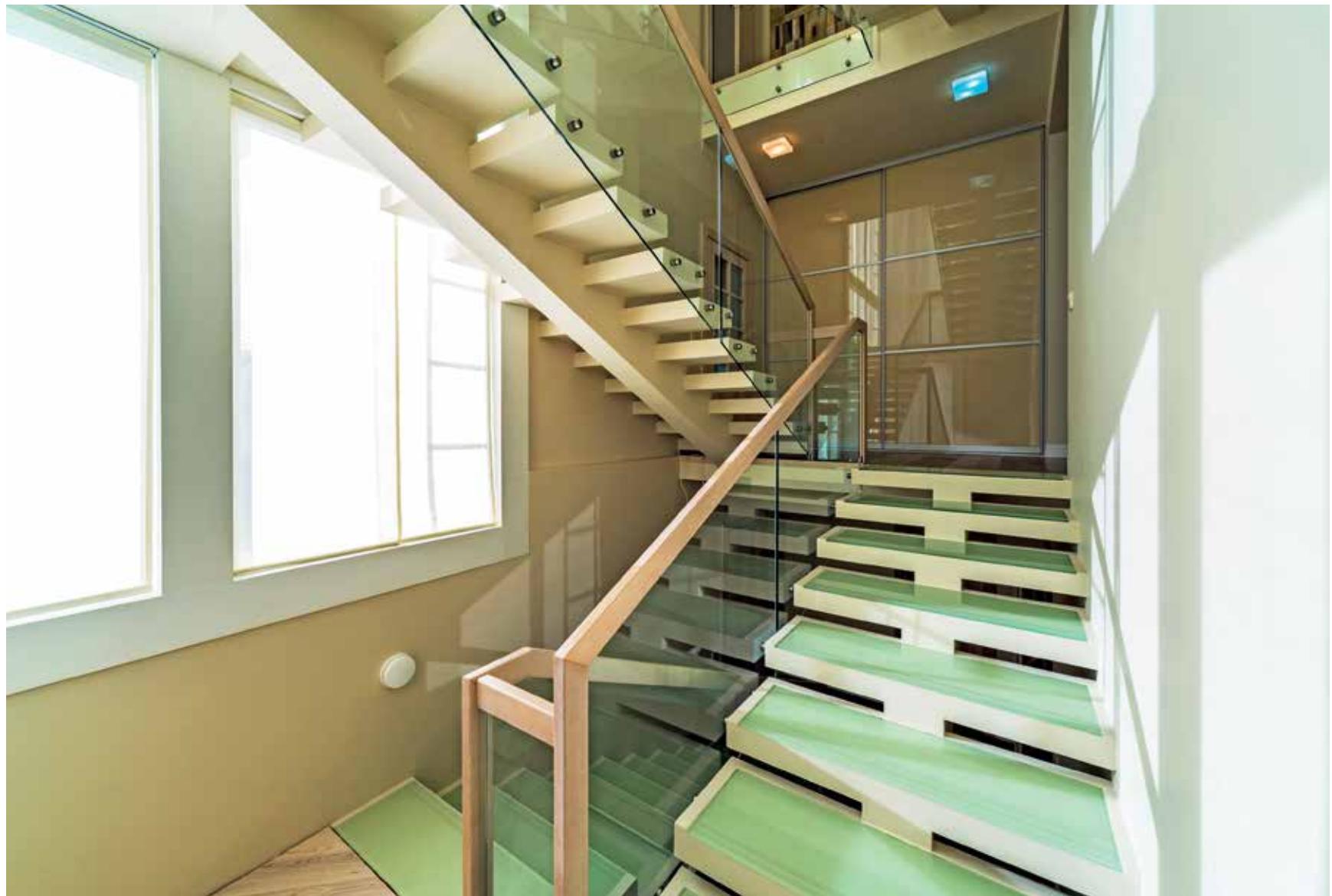
- Distortion-free
- Durable
- Environment-friendly
- Ideal in a hot and humid environment





## VALUE-ADDED GLASS – FOR UNIQUE INTERIOR AND EXTERIOR IDEAS

Technological advancement in glass has enabled the delivery of exceptional benefits. Taking the versatility of glass to the next level, AIS today has unmatched glass-processing capabilities, including the processing of special glass products, that enable us to meet your every need, and fulfil every requirement. And help you realise your dream construction in glass.



## AIS Strongglas™



AIS Strongglas™ 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:

- Lowers the risk of impact-related breakage and provides enhanced safety, as it is 4–5 times stronger than normal 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 blunt pieces, causing little or no damage

## AIS Securityglas™



AIS Securityglas™ is 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.

### 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
- Finds application in windows, roof lights, canopies, domes, skylights, glass lifts, etc.
- Effectively reduces sound for better acoustic performance

## 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
- Ideal for doors & windows, canopies, stairways, skylights, domes, overhead glazing, etc.

## AIS Securityplus



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





## AIS Acousticglas™



AIS Acousticglas™ is a laminated glass with a specialised PVB interlayer that dampens external sounds significantly. It helps in keeping the interiors quiet while letting the user give ear to the sounds that really matter.

### Benefits:

- Reduces 90% of external noise
- Extremely durable with superior aesthetics
- Enhanced parameters for improved performance
- Ideal for homes, and businesses, especially in noisy areas

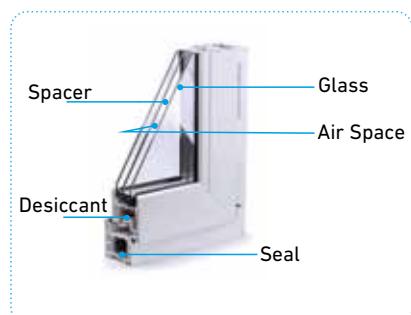
## AIS Insulated-Glazed Unit



AIS IGU consists of two or more panels of glass separated by an air space and an aluminium 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 buildup in summer and heat loss in winter
- Lowers UV transmission
- Lowers noise penetration
- Increases wind-load strength
- Improves security



## 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 practice to heat-strengthen reflective glass, since wave formation is minimal when compared to the fully tempered process.

### Benefits:

- This glass can withstand high temperature differentials
- The wave formation of this glass is minimal when compared to fully tempered process





## SUPER-SPECIALITY GLASS PRODUCTS – FOR IDEAS BEYOND THE ORDINARY

When you are looking for solutions beyond the ordinary, you need products that match those ideas. With our super-specialty glass offerings you can create an environment that offers complete privacy, safety, security, and absolute peace of mind.



## AIS Swytchglas



AIS Swytchglas is the cutting edge in 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, with the click of a button.

### Benefits:

- Works with an electric switch or a remote-control device
- Activates in less than 10 microseconds
- Blocks UV rays that are harmful to the skin
- Works in temperatures ranging from 100°C to 500°C
- Blocks up to 50% light in 'Off' mode
- The interlayer behaves as a security film ensuring safety
- Its acoustic properties help dampen outside noise
- Lasts a minimum of 20,000 cycles
- Low power consumption
- A variety of colour tints are possible

## AIS Pyrobel



A high-end, fire-resistant glass range, AIS Pyrobel is engineered with a special intumescence layer that helps withstand extreme levels of heat, to a great extent restricts heat transfer, and prevents easy passage of smoke and flames. In the event of fire, the interlayer expands and transforms itself into a rigid, opaque, and heat-absorbing fire shield.

These products follow the European classification standards:

- EN 12600 (3B3, 2B2, or 1B1 according to product type) and BS 6206 (class C, B, or A according to product type)
- Available products: EW 30, EW 60, EW 120, EI 30, EI 60, EI 90, and EI 1

### Benefits:

- Helps reduce the spread of fire and heat in times of an outbreak
- Provides enough time to implement an evacuation plan

## AIS Integrated Blinds



AIS Integrated Blinds are a range of blinds that are inbuilt within a double-glazed, sealed unit. This type of glass offers several advantages such as privacy, shading of light, and reducing heat from direct sunlight.

### Benefits:

- Requires zero maintenance, as they are sealed within the glazing of the window
- Can be operated with a remote control or a manual control at the window / door
- Provides control on privacy and can also help in reducing noise
- Suitable for conference rooms, offices, banks, laboratories, hospitals, schools, and crèches, as well as for houses, apartments, etc.





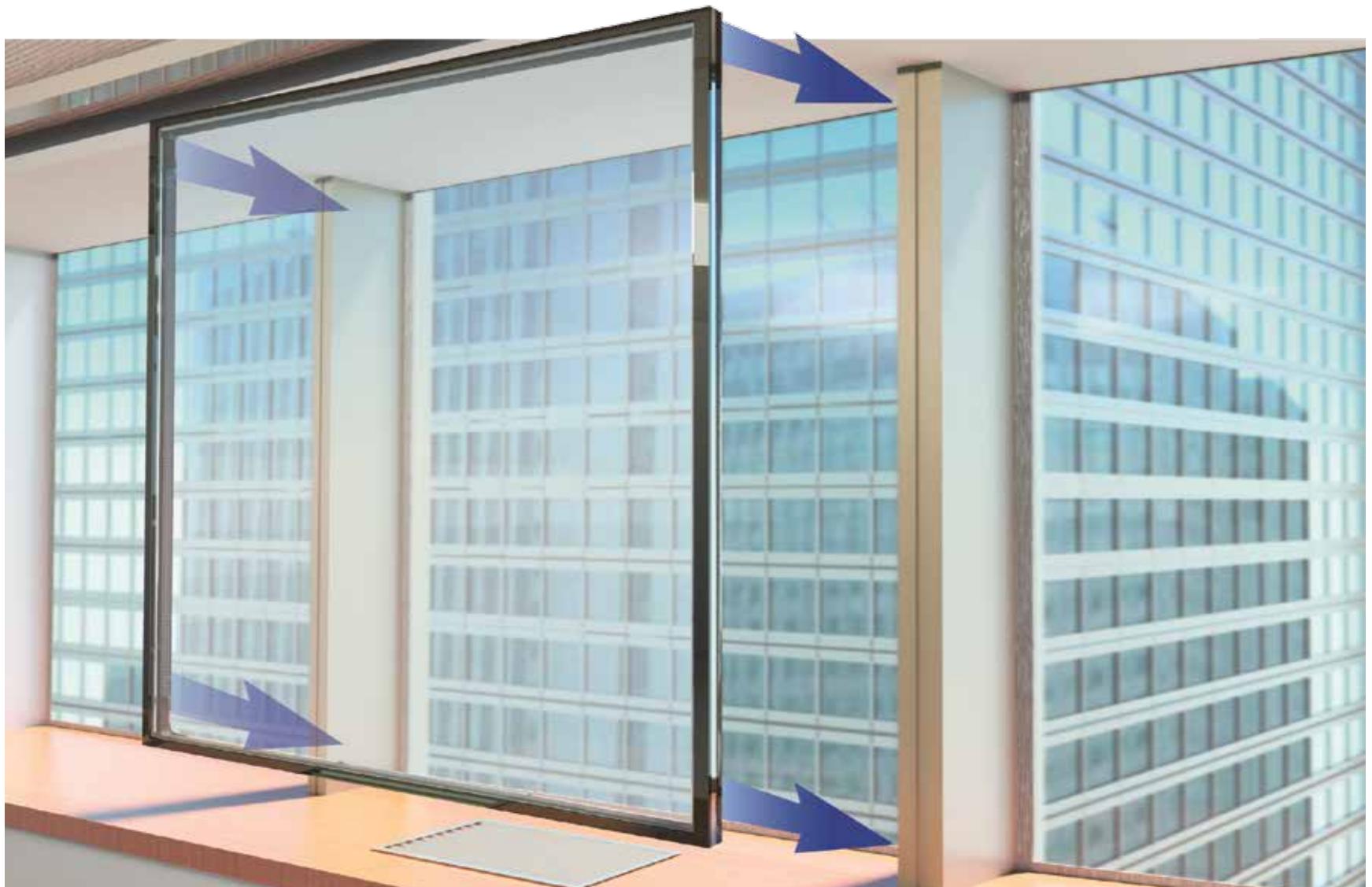
## RETROFIT SOLUTIONS

Experience absolute comfort, style, and energy-efficiency with retrofittable windows. These easy-to-fit windows are installed on top of the existing window frame, so you don't have to compromise on the architecture or the aesthetics of your living space.



## AIS Renew

Built with a Low-e interlayer, its performance is equivalent to that of an insulated glazed unit. AIS Renew effectively reflects the sun's heat away from the building and keeps the interiors cool. This helps in reducing the usage of air-conditioning, thus conserving electricity.



## Features and Benefits:



Protects the building from sun's heat and improves comfort level of occupants



Existing glass continues to be used, so its disposal is not required



Helps in heat insulation during the winter season



Periodic replacement is not needed



Offers excellent noise-reduction, as it has acoustic properties



Quick payback period



Significant reduction in dew condensation



Low maintenance and very easy to clean



Low-cost installation



Short installation period (30 to 60 minutes per window)



No need for scaffolding during installation



## AIS WINDOWS – UPVC, WOOD, AND ALUMINIUM, FOR A BEAUTIFUL AMBIENCE

Windows are the soul to any building. At AIS, you have a multitude of choices within uPVC, wooden, and aluminium profiles for both doors and windows. Along with aesthetic value there are other features like safety, security, noise cancelling, and environment-friendly, which are gaining importance. Therefore, we present a range of solutions that suit your taste and your class.



## uPVC



With the perfect mix of style & safety, the right balance between elegance & efficiency, and the ultimate combination of form & function, we present complete uPVC door and window solutions through AIS Windows. Bring home any of the following AIS Window solutions that suit your needs:

### Wood

Wood brings a sense of nature to the surrounding, while at the same time adding a classy touch. For our wooden solutions, we have partnered with a world-class service provider – RitikaaWood, a specialist in all natural real-wood products. They are known to deliver uncompromising quality which has made them a trusted brand and a preferred choice for customers who expect nothing but the finest.

- Complete product range is made from Accoya® wood
- Delivers European finishing that complements Indian conditions
- Adds value to your building in terms of aesthetics and performance
- Helps achieve up to 30% cost savings on cooling and heating bills
- Comes with a 50-year guarantee

### Monsoon-proof windows

- Keeps rainwater and strong whistling sound of wind at bay
- Specialised locking system prevents rainwater from entering indoor spaces

### Invasion-proof windows

- Security solutions to protect your home from damages – accidental or deliberate – and break-ins
- Multipoint locking system for enhanced security and absolute peace of mind

### Noise-cancellation windows

- Reduces up to 42 decibels of noise, creating a peaceful ambience to relax
- Fusion-welded and double-sealed mechanism for excellent sound insulation
- Superior aesthetics and extremely durable

### Energy-efficient windows

- Reduces use of air-conditioning and artificial heating
- Lowers electricity consumption
- Allows natural light to enter

### Accident-proof windows

- High-quality tempered glass that is several times stronger than ordinary glass
- In case of breakage, the glass shatters into minute carbon granules instead of sharp shards
- Prevents injuries



Note: Launching Aluminium profiles soon.



# TECHNICAL SPECIFICATIONS

## Ecosense Enhance – Performance Parameters

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

### Solar Control Glass - 6 mm

Spring	Clear	SC 59/52	65	26	26	64	0.73	5.40
Nimbus	Clear	SC 47/48	54	21	13	59	0.68	5.10
Aura	Clear	SC 48/46	53	25	21	58	0.67	5.40
Nectar	Clear	SC 32/35	37	22	16	45	0.52	4.80
Dawn	Clear	SC 26/33	29	18	26	43	0.49	5.40
Snow	Clear	SC 21/28	23	26	36	38	0.44	5.40
Ivory	Clear	SC 20/25	23	34	19	34	0.39	4.50
Marine	Blue	SH 38/37	43	17	28	48	0.55	5.40
Serene	Blue	SH 31/33	35	16	12	45	0.52	5.10
Bay	Blue	SH 31/34	35	12	22	46	0.53	5.40
Indigo	Blue	SH 22/26	24	12	16	38	0.43	4.90
Cove	Blue	SH 18/25	20	12	26	36	0.41	5.40
Orchid Blue	Blue	SH 13/23	15	14	35	35	0.40	5.40
Bluebell	Blue	SH 13/21	14	17	20	32	0.37	4.50
Meadow	Green	SN 49/38	56	22	26	48	0.56	5.40
Harmony	Green	SN 40/34	46	16	15	46	0.53	5.10
Coral	Green	SN 39/35	44	19	22	46	0.53	5.40
Lime	Green	SN 27/26	31	17	16	37	0.43	4.80
Pine	Green	SN 22/24	25	14	26	35	0.40	5.40
Jade	Green	SN 18/24	21	20	35	36	0.41	5.40
Citrus	Green	SN 16/21	18	25	21	31	0.36	4.50
Gold	Gold	SC 44/48	49	26	27	58	0.67	5.40

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

Spring	Clear	SC 59/52	59	29	28	52	0.60	2.80
Nimbus	Clear	SC 47/48	47	23	18	48	0.55	2.80
Aura	Clear	SC 48/46	48	27	25	46	0.53	2.80
Nectar	Clear	SC 32/35	32	23	21	35	0.39	2.70
Dawn	Clear	SC 26/33	26	19	28	33	0.38	2.80
Snow	Clear	SC 21/28	21	27	36	28	0.32	2.80
Ivory	Clear	SC 20/25	20	34	23	25	0.29	2.60
Marine	Blue	SH 38/37	38	19	30	37	0.43	2.80
Serene	Blue	SH 31/33	31	17	17	33	0.38	2.80
Bay	Blue	SH 31/34	31	13	25	34	0.39	2.80
Indigo	Blue	SH 22/26	22	13	21	26	0.30	2.70

## Ecosense Enhance – Performance Parameters

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

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

Cove	Blue	SH 18/25	18	12	28	25	0.29	2.80
Orchid Blue	Blue	SH 13/23	13	14	35	23	0.26	2.80
Bluebell	Blue	SH 13/21	13	17	24	21	0.24	2.60
Meadow	Green	SN 49/38	49	25	29	38	0.44	2.80
Harmony	Green	SN 40/34	40	18	20	34	0.39	2.80
Coral	Green	SN 39/35	39	20	25	35	0.40	2.80
Lime	Green	SN 27/26	27	18	20	26	0.30	2.70
Pine	Green	SN 22/24	22	16	28	24	0.28	2.80
Jade	Green	SN 18/24	18	20	35	24	0.28	2.80
Citrus	Green	SN 16/21	16	25	24	21	0.24	2.60
Gold	Gold	SC 44/48	44	27	29	48	0.56	2.80

### 6 mm (Solar Control Glass) - 12 mm (Air Gap) - 6 mm (Clear Low-E Glass / Clear Essence)

Spring	Clear	SC 59/52	55	29	27	51	0.59	1.88
Nimbus	Clear	SC 47/48	45	23	18	44	0.50	1.88
Aura	Clear	SC 48/46	45	27	24	43	0.49	1.88
Nectar	Clear	SC 32/35	31	23	20	32	0.37	1.87
Dawn	Clear	SC 26/33	25	21	33	30	0.34	1.88
Snow	Clear	SC 21/28	20	26	34	26	0.30	1.88
Ivory	Clear	SC 20/25	19	34	22	21	0.24	1.86
Marine	Blue	SH 38/37	36	19	29	33	0.38	1.88
Serene	Blue	SH 31/33	29	17	17	28	0.33	1.88
Bay	Blue	SH 31/34	30	13	34	29	0.34	1.90
Indigo	Blue	SH 22/26	20	12	20	23	0.26	1.87
Cove	Blue	SH 18/25	17	12	33	22	0.25	1.88
Orchid Blue	Blue	SH 13/23	13	14	34	19	0.22	1.88
Bluebell	Blue	SH 13/21	12	17	23	17	0.20	1.86
Meadow	Green	SN 49/38	47	25	28	34	0.39	1.88
Harmony	Green	SN 40/34	38	18	20	29	0.33	1.88
Coral	Green	SN 39/35	37	20	24	30	0.34	1.88
Lime	Green	SN 27/26	26	18	20	23	0.26	1.87
Pine	Green	SN 22/24	21	16	33	21	0.24	1.66
Jade	Green	SN 18/24	18	20	34	21	0.24	1.88
Citrus	Green	SN 16/21	15	25	24	17	0.20	1.86
Gold	Gold	SC 44/48	41	28	28	43	0.49	1.88

## Ecosense Exceed – Performance Parameters

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

### 6 mm Solar Control Low E Glass - 12 mm (Air Gap) - 6 mm [Clear Glass]

Clearlite Plus	Clear	LC 54/37	54	15	11	37	0.43	1.70
Clear Radiance Plus	Clear	LC 49/32	49	20	14	32	0.37	1.70
Clearvision	Clear	LC 39/29	39	23	10	29	0.33	1.70
Clear Brook Plus	Clear	LC 33/22	33	39	21	22	0.25	1.70
Clear Comfort	Clear	LC 30/24	30	25	14	24	0.28	1.70
Clear Priva	Clear	LC 30/22	30	31	17	22	0.26	1.60
Clear Platina	Clear	LC 27/21	27	40	16	21	0.24	1.67
Bluelite Plus	Blue	LH 38/27	38	10	10	27	0.31	1.70
Blue Radiance Plus	Blue	LH 34/24	34	13	12	24	0.28	1.70
Blue Berry	Blue	LH 29/26	29	21	20	26	0.30	1.70
Bluevision	Blue	LH 24/20	24	13	10	20	0.23	1.70
Blue Brook Plus	Blue	LH 20/18	20	20	23	18	0.21	1.62
Blue Comfort	Blue	LH 20/19	20	13	14	19	0.22	1.70
Blue Priva	Blue	LH 20/18 II	20	14	17	18	0.21	1.60
Blue Platina	Blue	LH 18/17	18	18	17	17	0.20	1.64
Greenlite Plus	Green	LN 47/28	47	14	11	28	0.32	1.70
Green Radiance Plus	Green	LN 42/24	42	17	14	24	0.28	1.70
Greenvision	Green	LN 34/22	34	19	13	22	0.25	1.70
Green Brook Plus	Green	LN 26/18	26	30	23	18	0.21	1.70
Green Comfort	Green	LN 26/20	26	18	14	20	0.23	1.70
Green Priva	Green	LN 26/19	26	21	17	19	0.22	1.60
Green Platina	Green	LN 24/18	24	28	17	18	0.21	1.64
Exceed Gold	Gold	LC 30/22	30	40	45	22	0.25	1.60

## Ecosense Exceed – Performance Parameters

Product Name	Glass Details		Code	Light Factors		Energy Factors			
	Shade	Transmission		Reflection		SF	SC	U-Value	
				%	%				

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

Clearlite Plus	Clear	LC 54/37	52	15	12	36	0.41	1.64
Clear Radiance Plus	Clear	LC 49/32	46	20	13	31	0.36	1.65
Clearvision	Clear	LC 39/29	36	24	11	28	0.32	1.65
Clear Brook Plus	Clear	LC 33/22	31	39	21	22	0.25	1.65
Clear Comfort	Clear	LC 30/24	29	25	15	23	0.26	1.64
Clear Priva	Clear	LC 30/22	29	31	17	21	0.25	1.59
Clear Platina	Clear	LC 27/21	26	40	17	20	0.23	1.60
Bluelite Plus	Blue	LH 38/27	36	10	11	26	0.30	1.64
Blue Radiance Plus	Blue	LH 34/24	32	12	13	23	0.26	1.65
Blue Berry	Blue	LH 29/26	27	21	20	25	0.29	1.68
Bluevision	Blue	LH 24/20	23	13	10	19	0.22	1.64
Blue Brook Plus	Blue	LH 20/18	19	20	23	17	0.20	1.60
Blue Comfort	Blue	LH 20/19	19	13	15	18	0.21	1.64
Blue Priva	Blue	LH 20/18 II	19	14	17	17	0.20	1.59
Blue Platina	Blue	LH 18/17	17	18	17	17	0.20	1.64
Greenlite Plus	Green	LN 47/28	45	14	12	27	0.31	1.64
Green RadiancePlus	Green	LN 42/24	39	17	13	23	0.26	1.65
Greenvision	Green	LN 34/22	31	19	10	20	0.23	1.38
Green Brook Plus	Green	LN 26/18	25	30	23	17	0.20	1.60
Green Comfort	Green	LN 26/20	25	18	15	19	0.22	1.64
Green Priva	Green	LN 26/19	25	21	17	18	0.21	1.59
Green Platina	Green	LN 24/18	23	28	17	17	0.20	1.60
Exceed Gold	Gold	LC 30/22	27	40	45	21	0.24	1.58

## Ecosense Edge – Performance Parameters

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

### Ecosense Edge / Edge Plus (Solar Control & Thermal Insulation Glass) – 6 mm

Natura Plus	Clear	SC 40/33	45	20	6	42	0.48	4.60
Natura	Clear	TC 25/24	28	27	10	30	0.35	3.70
Electra Plus	Blue	SH 27/25	30	12	6	33	0.38	4.60
Electra	Blue	TH 16/19	19	14	10	27	0.31	3.70
Chroma Plus	Green	SN 35/23	38	19	6	31	0.36	4.60
Chroma	Green	TN 20/19	23	21	10	26	0.30	3.70

### Ecosense Edge / Edge Plus – 6 mm (Solar Control & Thermal Insulation Glass) –12 mm (Air Gap) – 6 mm (Clear Glass)

Natura Plus	Clear	TC 40/33	40	22	12	33	0.38	2.40
Natura	Clear	TC 25/24	25	28	16	24	0.27	1.96
Electra Plus	Blue	TH 27/25	27	12	12	25	0.29	2.40
Electra	Blue	TH 16/19	16	15	16	19	0.22	1.96
Chroma Plus	Green	TN 35/23	35	12	12	23	0.26	2.40
Chroma	Green	TN 20/19	20	21	16	19	0.21	1.94

## Ecosense Essence – Performance Parameters

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

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

Clear Essence	Clear	EC 72/56	72	15	14	56	0.64	1.88
Blue Essence	Blue	EH 46/35	46	9	13	35	0.40	1.80
Green Essence	Green	EN 58/35	58	12	13	35	0.40	1.80

## Ecosense Excel – Performance Parameters

Product Name	Glass Details		Code	Light Factors			Energy Factors		
	Shade	Transmission		Reflection		SF	SC	U-Value	
				External	Internal			W/m²K	
6 mm Double Low E Glass - 12 mm (Air Gap) - 6 mm (Clear Glass)									

Clear Star	Clear	DC 55/33	55	12	13	33	0.38	1.60
Clear Sparkle	Clear	DC 46/25	46	19	17	25	0.29	1.60
Clear Pearl	Clear	DC 41/23	41	19	13	23	0.26	1.60
Clear Marvel	Clear	DC 30/18	30	19	18	18	0.21	1.60
Blue Star	Blue	DH 36/25	36	6	12	25	0.28	1.60
Blue Sparkle	Blue	DH 31/20	31	12	18	20	0.23	1.60
Blue Pearl	Blue	DH 27/19	27	12	13	19	0.22	1.60
Blue Marvel	Blue	DH 21/16	21	11	19	16	0.19	1.60
Green Star	Green	DN 46/26	46	9	12	26	0.30	1.60
Green Sparkle	Green	DN 41/22	41	17	18	22	0.25	1.60
Green Pearl	Green	DN 34/20	34	15	13	20	0.23	1.60
Green Marvel	Green	DN 27/18	27	16	19	18	0.21	1.60

## AIS Opal – Performance Parameters

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

### AIS Opal (4 mm)

Olive Green	36	15	35	52	0.60	5.75
Royal Blue	30	13	36	52	0.60	5.7
Cool Green	48	24	36	50	0.57	5.7
Golden Bronze	40	17	35	58	0.67	5.7
Pearl Grey	20	9	37	50	0.58	5.7
Aqua Blue	29	14	40	49	0.80	5.8

### AIS Opal (5 mm)

Olive Green	30	12	37	47	0.54	5.8
Royal Blue	25	10	36	49	0.56	5.7
Cool Green	44	22	36	47	0.54	5.7
Golden Bronze	35	14	35	55	0.63	5.7
Pearl Grey	15	7	38	46	0.53	5.7
Aqua Blue	25	11	40	44	0.51	5.8

## AIS Sunshield – Performance Parameters

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

### AIS Sunshield (Single Glazed 3.5 mm)

Royal Gold	43	24	27	50	57	5.80
------------	----	----	----	----	----	------

### AIS Sunshield (Single Glazed 4 mm)

Royal Gold	41	24	27	52	60	5.80
------------	----	----	----	----	----	------

### AIS Sunshield (5 mm)

Leaf Green	17	38	16	31	0.36	5.67
Oceanic Blue	28	20	29	39	0.45	5.71
Radiant Amber	18	20	15	31	0.36	5.67
Icy Clear	65	22	25	66	0.76	5.75
Royal Gold (Single Glazed)	40	23	26	52	60	5.80

### AIS Sunshield – 5 mm (Coated Glass) - 12 mm (Air Gap) - 5 mm (Clear Glass)

Leaf Green	15	38	21	22	0.26	2.79
Oceanic Blue	25	20	32	29	0.34	2.81
Radiant Amber	16	20	20	22	0.25	2.79
Icy Clear	58	26	28	57	0.65	2.82

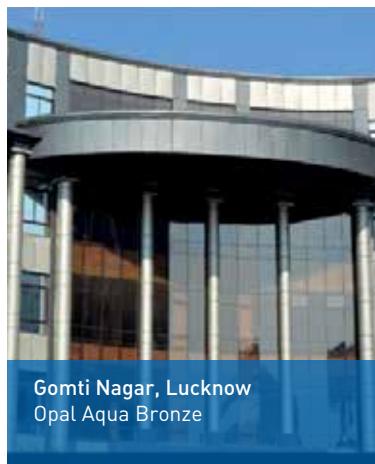
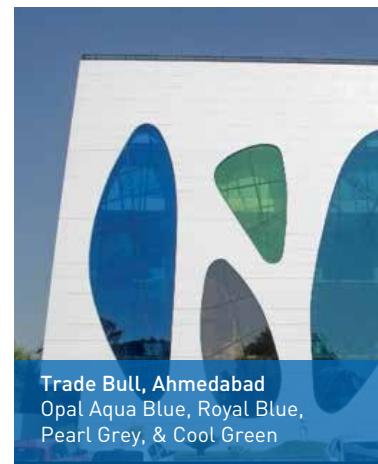
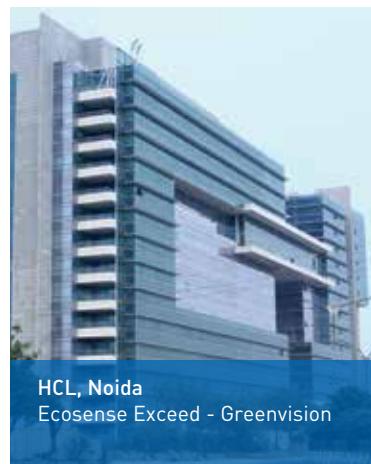
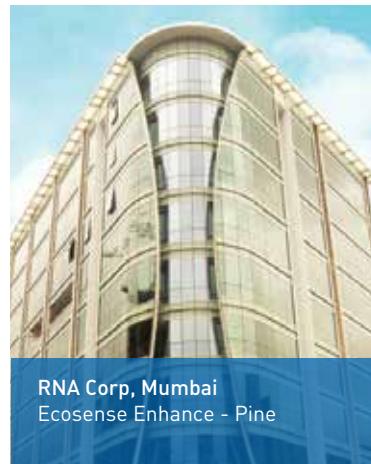
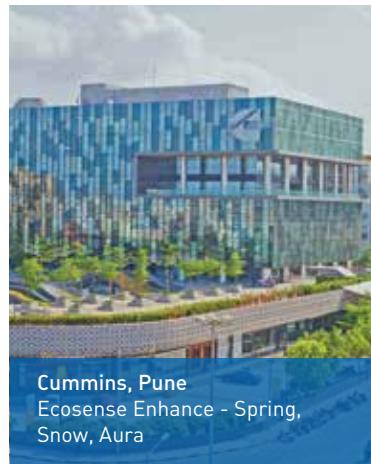
### AIS Sunshield (6 mm)

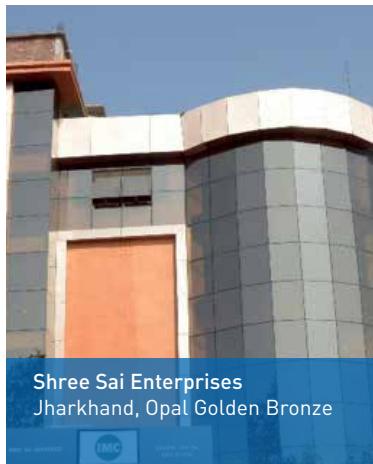
Supreme Blue	35	17	24	44	0.51	5.69
Supreme Green	33	34	14	43	0.49	5.66
Supreme Gold	58	15	16	67	0.78	5.40

### AIS Sunshield - 6 mm (Coated Glass) - 12 mm (Air Gap) - 6 mm (Clear Glass)

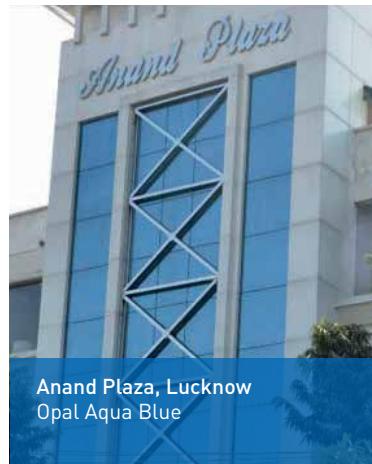
Supreme Blue	31	18	27	33	0.38	2.80
Supreme Green	29	35	19	34	0.39	2.79
Supreme Gold	50	18	21	55	0.63	2.80

## AIS PROJECT SHOWCASE

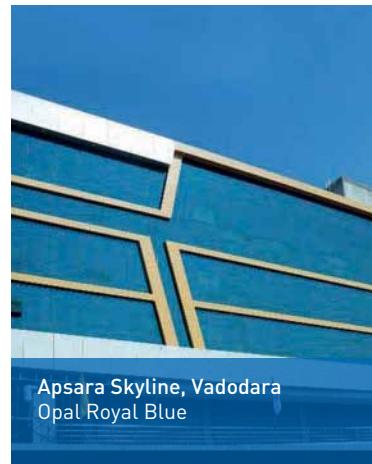




Shree Sai Enterprises  
Jharkhand, Opal Golden Bronze



Anand Plaza, Lucknow  
Opal Aqua Blue



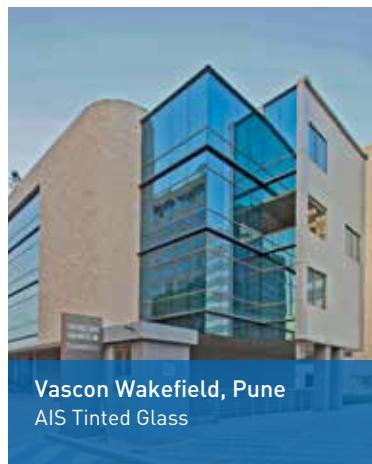
Apsara Skyline, Vadodara  
Opal Royal Blue



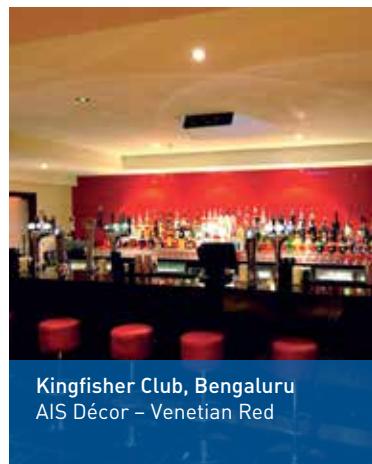
Vikram Urbane, Indore  
AIS SunShield – Leaf Green &  
AIS Opal – Aqua Blue



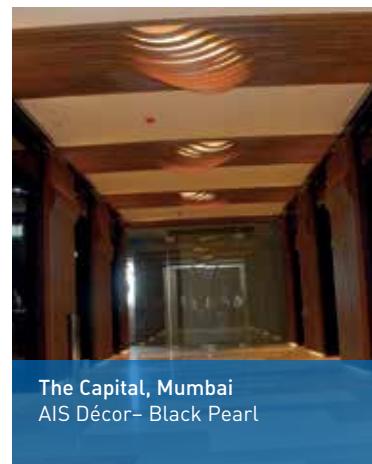
Google, Gurugram  
AIS Ecosense Exceed -  
Green Radiance



Vascon Wakefield, Pune  
AIS Tinted Glass



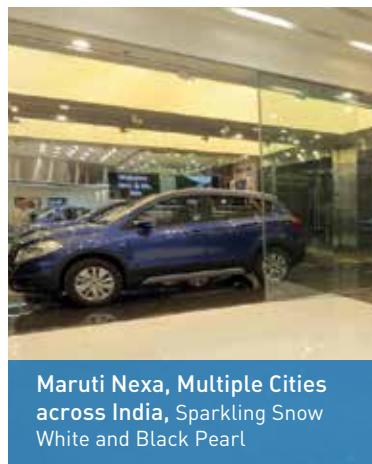
Kingfisher Club, Bengaluru  
AIS Décor – Venetian Red



The Capital, Mumbai  
AIS Décor- Black Pearl



Cochin International Airport,  
Kochi, Black Pearl &  
Sparkling Snow White



Maruti Nexa, Multiple Cities  
across India, Sparkling Snow  
White and Black Pearl



Karan Deep, New Delhi  
AIS WINDOWS



Vishwakarma Estate,  
Ahmedabad, Opal Pearl Grey,  
Golden Bronze, & Royal Blue



Asahi India Glass Ltd.

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

Follow Us

[f/AsahiIndiaGlassLtd](https://www.facebook.com/AsahiIndiaGlassLtd) [@AsahiIndia](https://twitter.com/AsahiIndia)  
[in/](https://www.linkedin.com/company/asahi-india-glass-limited) /company/asahi-india-glass-limited



To experience glass like never before,  
download the AIS Apps now!

