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WALIA GLOBAL VENTURES
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Eco Star Plus Glass



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Eco Star Plus Glass

Description

Kaveh glass Eco Star Plus is being produced by coating one or two layers of silver on glass surface using Vacuum Sputtering system. Silver has the lowest emissivity which is a measure of a material's ability to radiate energy. Ordinary clear glass has a surface emissivity level of 0.84, meaning 90% of the absorbed heat is emitted from the surface. When Low-E coatings are applied to glass, the surface emissivity is reduced to less than 0.1. Eco Star Plus is a product with a high light transmittance which dramatically reduces infrared transmission and solar heat gain. It is an excellent product choice for both warm and cold climates. Eco Star plus coatings reflect infrared energy, reducing heat gain or loss in a building by redirecting the heat. Eco Star plus provides the best balance between visible light transmission and solar energy control. Comparing to the normal solar reflective coatings, Eco Star has the characteristic of higher visible light transmission. Eco Star plus ensures warmth in the winter and coolness in the summer at the same energy consumption levels. Eco Star Plus coatings have excellent energy-saving performance and will increase your buildings' value by decreasing energy consumption. Today's investment will bring tomorrow's return.

Features

- Heat control and energy efficiency
- Decrease in heating expenses
- Does not compromise on natural daylight and transparency
- Ensures maximum benefit from solar heat
- In case of tempering, approximately five times stronger than annealed glass against impact
- If it's tempered, minimum risk of injury when broken because it is divided into small pieces which are not sharp.

Applications

Commercial buildings (office, hotel, shopping mall, airport, etc.), skylights and glasshouses, where transparency and low reflection are required, and also residential buildings and any building that needs tempered glass. Using Eco Star Plus glass with tinted glass, solar reflective glass or silkscreen glass, will achieve special design effects thru colors and patterns, and at the same time, further increasing in the solar control performance

Quality Standards

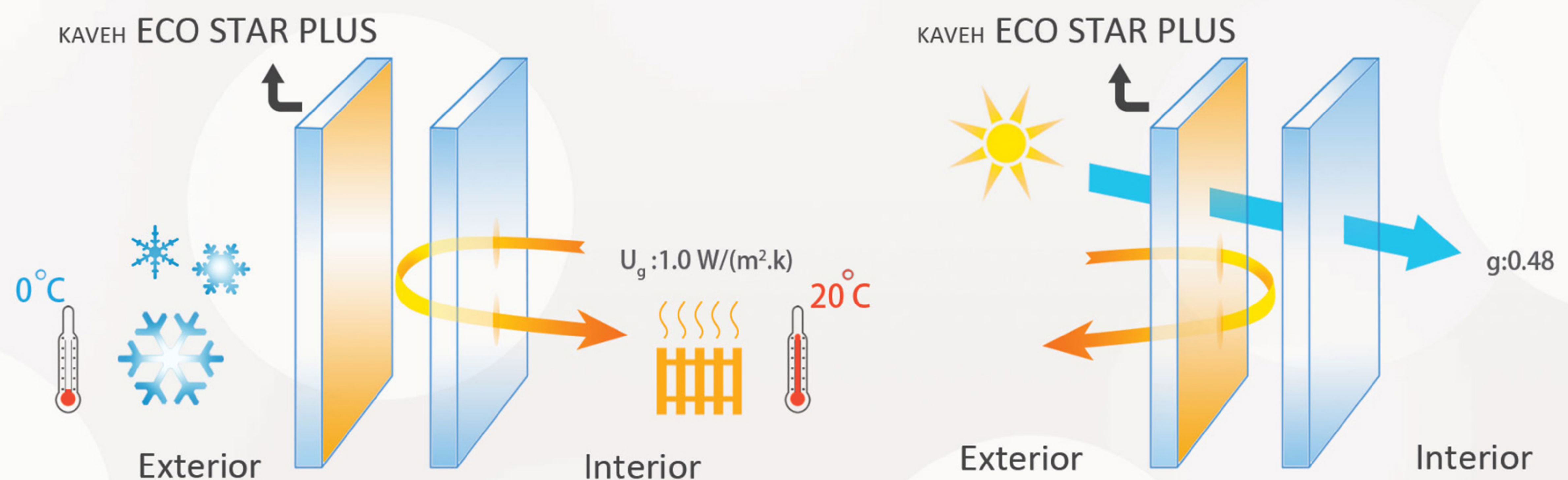
Top quality glass with CE certificate, EN 1096(Europe standard) and ISI mark as per indian standard.

Specifications

Thickness	3-10 mm
size	6000x3210mm, 3210x2250mm
Color	Clear Glass & Tinted Glass

Performances(EN 410 & EN 673)

Interior Pane	Clear Float Glass
Exterior Pane (Coating Position # 2)	KAVEH GLASS Eco Plus
Light Transmittance (LT%)	69
Exterior Light Reflectance (LR _e %)	10
Interior Light Reflectance (LR _i %)	15
Solar Factor(g)	0.44
Shading Coefficient(SC)	0.55
U _g Value EN 673 [W/(m ² .k)]	1.0



Processing Considerations

Kaveh Glass Eco Star should always be manufactured into a double glazed unit. The coating should always be placed facing the cavity of the double glazed unit, on face 2.

As Kaveh Glass Eco Star is a soft-coated low-E glass, certain considerations should be taken when processing the glass into double glazed units.

Storage

Kaveh Glass Eco Star should be stored in a dry and well-ventilated location. The glass must be processed within a certain time period.



Handling and cutting

- Avoid direct contact with the coated surface.
- Always wear suitable protective gloves.
- Always place on the cutting table with the coated surface facing upwards.
- The coated surface should either be cut in dry conditions or by using special cutting oil.

Edge stripping

The coating along the edges of the sheets must be removed prior to manufacture into a double glazed unit. This is to ensure adhesion to the spacer bar of the double glazed unit.

Washing

Use a washing machine which is capable of washing coated glass.