



Confederation of Indian Industry

'Green Glass' for enhanced energy performance in buildings

Glass forms an integral component of the building envelope.

Selection of glass with right specifications for a particular climatic zone contributes significantly in enhancing the energy performance of a building. The selection of glass parameters for building envelope depends on building location, its orientation and space use.

Further, use of correct type of glass enhances visual and acoustic comfort of the occupants in the building.

GreenPro certification helps the end users to identify the appropriate glass solution for exterior applications in a building with the aim of minimising the building cooling requirements and at the same time enhancing day lighting.

GreenPro certified glass products significantly exceed the minimum prescriptive requirements for a fenestration as defined in Energy Conservation Building Code 2017.



GreenPro certified products

Asahi India Glass Ltd and Saint Gobain have achieved GreenPro certification for their high-performance glass products.



Asahi India Glass Ltd.



Some of the key features of GreenPro certified high performance glass include the following:

- ✦ Solar heat gain coefficient of less than 0.50 resulting in reduced direct solar heat gain
- ✦ Overall heat transfer coefficient - U-Value of less than 2.0, leading to improved insulation
- ✦ Visible light transmittance of more than 0.27 resulting enhanced day lighting
- ✦ Lower environmental impacts during the entire life cycle of the product including the manufacturing & distribution of glass.

Benefits

- ✦ Reduction in heat gain to the tune of about 35-40 % and the corresponding reduction in energy consumption in air conditioning as compared to conventional glass
- ✦ Offers an opportunity for reducing the capacity of HVAC by design and hence reduction in investment
- ✦ Enhanced daylighting leading to reduction in lighting energy consumption
- ✦ Facilitates meeting the green building requirements

For details on GreenPro certified High Performance Glass Products, please visit
<https://igbc.in/igbc/redirectHtml.htm?redVal=showGreenPronosig>

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