



AIS Renew: A time-saving, energy-efficient glass

AIS Renew is the perfect upgradation solution for old buildings without disrupting their regular operations.

“The world is going green. Faced with increasing environmental degradation, eco-friendly living is the new mantra. Naturally, then, the living and work places are also transforming to reflect the green revolution. And in this transformation, glass is emerging as one of the most effective building materials.

Vikram Khanna,
CMO, CIO,
Asahi India
Glass Ltd (AIS)

Making buildings energy efficient has become a significant aspect in today's design and construction standards. Technological advancement in glass is enabling architects and builders to integrate solar and thermal control products to significantly reduce energy consumption. While these products can be easily incorporated in new buildings, it would be expensive to convert an old building, if the traditional method of window glazing has been used. AIS has introduced a time-saving and energy-efficient glass solution to address this very problem named 'AIS Renew' – Retrofitting Solution.

AIS Renew: An ideal solution

Vikram Khanna, CMO, CIO, Asahi India Glass Ltd (AIS) says, "AIS Renew is a revolutionary solution which converts a glazed unit (SGU or IGU) into an energy-saving Insulated Glazed Unit (IGU) by installing Low-E glass from the inside. The installation procedure is very quick and does not require any scaffolding which makes it an ideal solution for energy-saving renovations in existing buildings."

Benefits

AIS Renew provides the benefit of reducing the heat gain in buildings due to its



excellent energy saving properties without compromising on the natural light coming inside the building or the brilliant aesthetics that add value to the façade. And in winter, they ensure solar gain. So that no matter what the season, people inside stay comfortable at all times. It helps in cutting energy costs by reducing load on air conditioners and cutting down on artificial lighting, observes Khanna.

Unique features

- Protects a building from the sun's heat and improves comfort level of occupants.
- Helps in heat insulation during the winter season.
- Offers excellent noise-reduction, as it has acoustic properties.

- Significant reduction in dew condensation.
- Short installation period (30 to 60 minutes per window).
- Low-cost installation.
- No need for scaffolding during installation.
- Existing glass continues to be used, so its disposal is not required.
- Periodic replacement is not needed.
- Low maintenance and very easy to clean.
- Quick payback period.

All of these factors make AIS Renew the perfect upgradation solution for old buildings without disrupting their regular operations.

Specifications

- Glass thickness: 4, 5, 6 and 8 mm
- Glass type: Low-E
- Thickness of air layer: 12 mm
- Colour of the glass: clear
- Standard weight: 80 kg per sheet or less
- Gasket: Optional.

Potential application areas

"AIS Renew – Retrofitting solutions is a boon for old buildings and is the easiest and cost-efficient method to convert them into energy-efficient buildings," Khanna claims.

The solution can be used in the structures like corporate offices, hotels, hospitals, banks, food chains, car showrooms, and shopping malls to make them energy-efficient.

AIS has introduced AIS Renew to address the need of glass retrofitting in India and the service is provided to commercial, residential, hospitality and retail space in India. Apart from these, the retrofitting solutions can also be used for airports and other glass structure that needs to be converted into becoming energy-efficient.

Market scenario

Global market size of retrofitting and replacement of glass is estimated as 40 per cent of glass used in construction or architectural segment. The governments in developed countries provide incentives (in terms of tax benefits) to the building owners for retrofitting for the purpose of reducing energy consumption and increasing the green rating of the building.

In India, glass retrofitting is still at a very early phase. "With an increase in awareness about the carbon footprint, it is expected that retrofitting old buildings by incorporating energy efficient glass solutions will drive the market for replacement glass," opines Khanna. ■