

## SSG® RetroLux Therm

Have you ever experience discomfort while sitting at somewhere with the heat from the sunlight coming through the glass window? What about experiencing the glare from the sunlight in the afternoon and evening? Both of these cause a significant amount of discomfort to occupants within the building.

To-date, glass is no longer just glass. It is no longer referred to as a fragile building material with no additional purpose. Glass can be used for many purposes. It is used to broaden the interior by creating an illusion of a wider space. It can also be used for aesthetic purposes as it is transparent, thus not restricting the view of the exterior environment. However, glass has gone beyond our expectations. It can be designed with light redirecting properties, ultraviolet screening and even heat insulation. All of these which contribute towards reducing the discomfort of occupants as opposed to traditional glass. Eco glasses have been one of the trending types which are widely used for commercial building. Large amount of energy is consumed by the generation of electricity throughout the building and if the cost of this can be significantly reduced on a whole, why not?

This month's newsletter will cover on one of the latest additions to the Eco category of our company – SSG® RetroLux Therm Micro 12mm.

## HOW DOES IT WORK?

### RETRO TECHNOLOGY & DICHOTOMOUS, BIFOCAL LOUVRE SHAPING

#### 1. Retro Technology

- Function: Mirrors solar radiation back outside

2. **Dichotomous**: The direction of installation for 2 types of louvres is completely different from each other

3. **Bifocal Louvre Shaping**: Referring to lens having two parts each with a different focal length

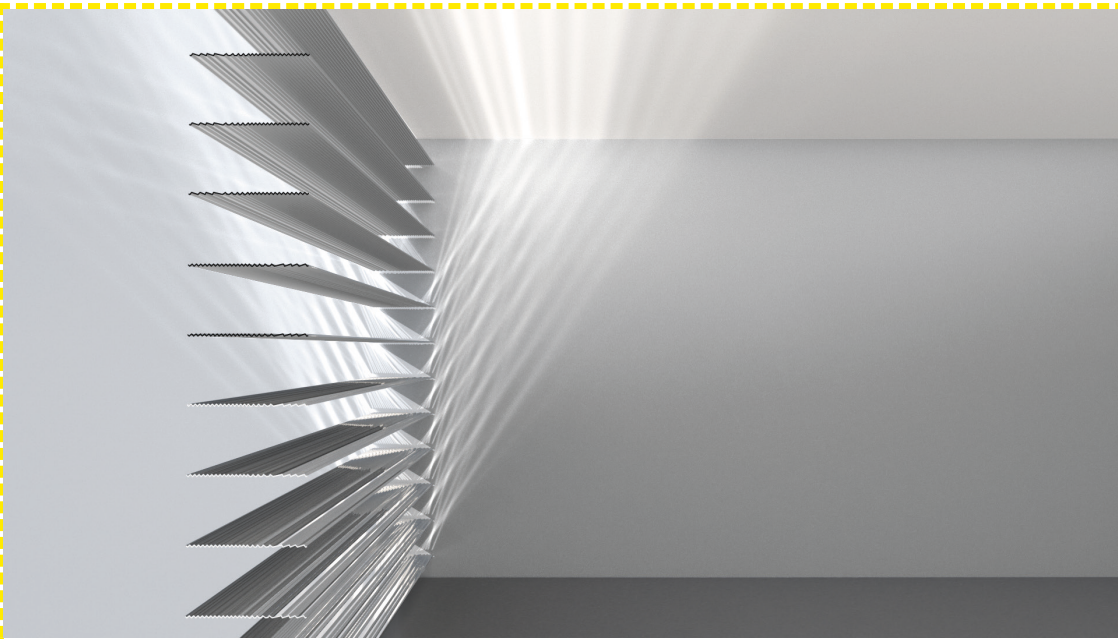
- Function: Contributes to angle selectivity in terms of light reflection and redirection



Type O Louvres:

First half of the louvre is responsible to **collect and horizontally redirect light into the room across the ceiling at a wide angle.**

Second half of the louvre **reflects sun rays back out to reduce solar heat gain.**



Type U Louvres:

First half of the louvre **reflect incident light radiation back out.**

Second half of the louvre **guides the light and reflects it into the room at steep angle up onto the ceiling.**

Together, the louvres **increase daylighting** within the room even on an overcast day. It also creates a **glare-free interior** and the reflection of solar irradiance helps to achieve an **SC value of as low as 0.33 to 0.11.**

## INSTALLATION

Type O louvres are typically used from 1.8m and above of the window height while Type U louvres are used below 1.8m.

Both louvres prevent overheating of the interior while optimizing daylight illumination.

A lighting designer would have to perform precise calculations on the landscape, surrounding environment, orientation of building and direction of sunlight.

## HOW CAN IT BENEFIT YOU?

### Ultraviolet Filtering

Long exposure to ultraviolet rays can have harmful effects on our skin as it increases rate of skin aging, the risk of eye conditions such as cataracts and even skin cancer. It can also deteriorate the condition of furniture in terms of discoloration. **Type U louvres work by reflecting a large amount of solar irradiance back to the exterior, thus only allowing a minimal amount into the room.**

### Enhancing Daylight Illumination

SSG® RetroLux Therm Micro 12mm brightens the room through light redirection and it also reduces glare. This combination thus provides a good diffusion of light to the interior. This helps to reduce electricity usage for internal lightings due to sufficient daylight. **Type O louvres redirect light into the room which enables daylight illumination.**

### Heat Insulation

**Double glazed unit allows for heat insulation of the interior from any changes in environmental temperature on the outside.** Occupants can enjoy a soothing environment without fear of sudden temperature changes.

### Ease of Maintenance

The louvres are assembled and enclosed between 2 pieces of glass. Your louvres will no longer be dusty anymore.

### Low obstruction in visibility

Compared to traditional louvres, SSG® RetroLux Therm of 12mm in width does not obstruct visibility regardless of the viewing angle.

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