

SUNLIGHT REDIRECTION PANELS

DAYLIGHTING FROM WINDOWS



REDIRECTED, DIFFUSED AND DEEP INSIDE
NATURAL SUNLIGHT FOR HEALTHY LIVING



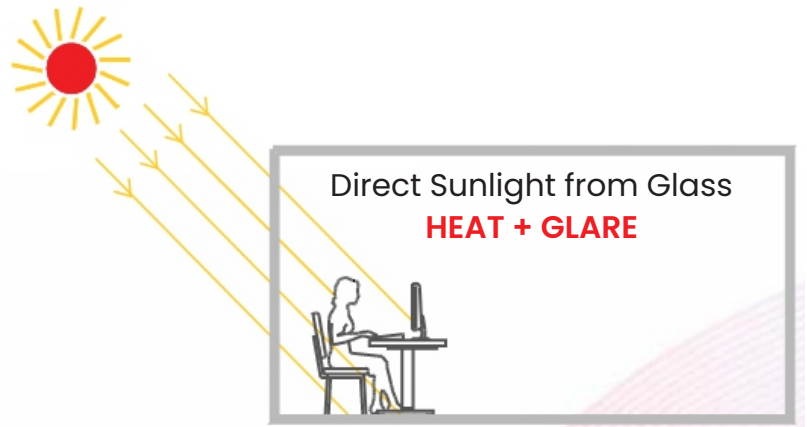
About Skyshade

Window Daylight panels are manufactured by Skyshade, the largest manufacturer of daylighting systems. Skyshade had decade long experience in executing daylighting projects with multiple daylighting technologies. With dedicated research and development center, Skyshade has multiple awards and recognition in field of Daylighting.

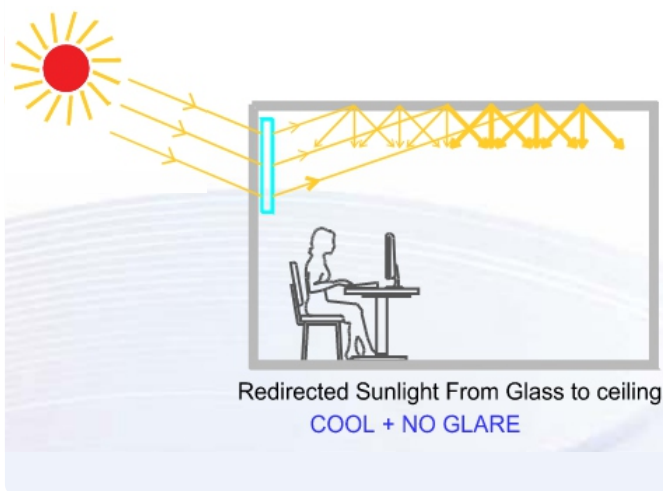
Common misconception – Windows can increase Daylight penetration

Windows cannot increase daylight penetration in building space.

The angular sunlight transmitted through windows creates a bright patch of light near the window concentrating all light energy at a spot. A bit away from the window, space would not be well lit. This is a common experience.

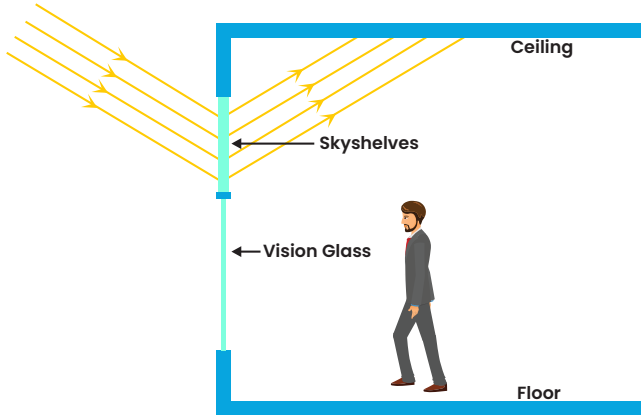


What is a Daylight panel?

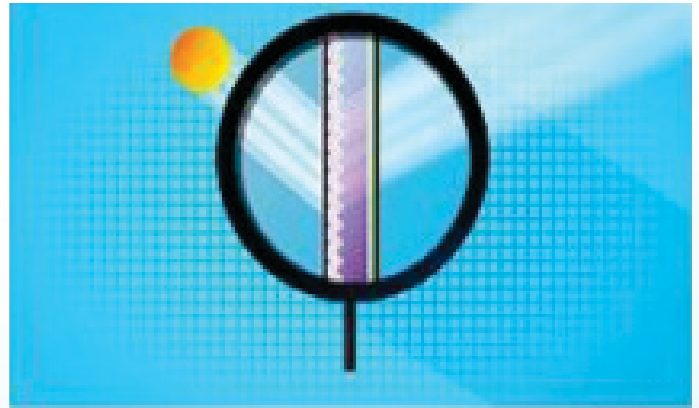
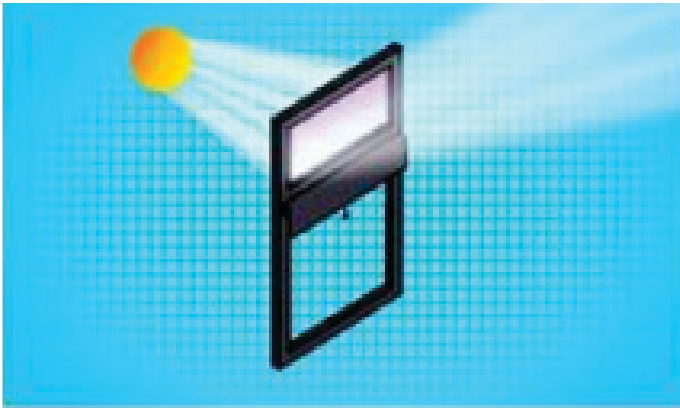


- It is optically structured sunlight deflection panel engineered to redirect incident sunlight from the window glass to the ceiling inside to a long distance .
- Such redirected sunlight penetrates deeper into the space bouncing off white colored ceilings, providing diffused daylight in the space.
- Sunlight redirection panels can do away with conventional light shelves inside or outside the windows. Skyshade manufactures these panels under trade name of *skyshelves*.[®]

Where do we fix Daylight panels for windows?



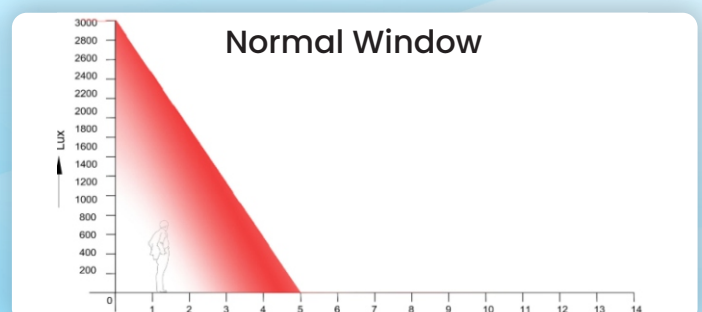
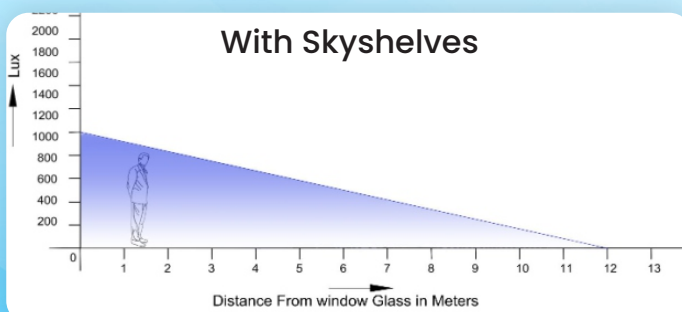
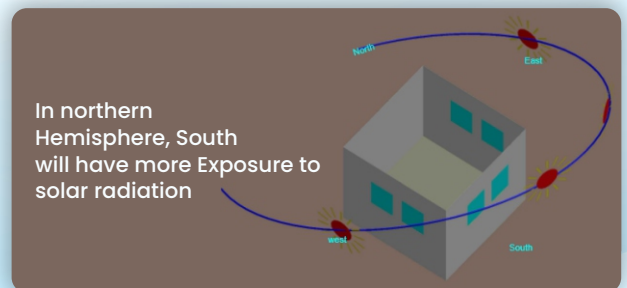
- Sunlight redirection panels to be fixed over window glass frame, wood/aluminium from inside. They are to be fixed above eyesight level [1.5m-1.8m].
- They can be fixed to window shades outside as well if the windows are shaded.
- In case of structurally glazed facades, they can be fixed to from mullion to mullion of glazing.



How deep the light can reach inside?

The depth of sunlight reaching inside depends on sun elevation angle, height of panel and orientation of window.

Typically the reach on floor plate could be 8.0 m - 12.0m based on above factors.



How much floor area with daylight can be achieved with Daylight panels?



With windows on North & South, floor plate of 20.0 - 25.0 meters can have daylight. Approximately for every 100 Sq.m of floor area, 2.0 Sq.m panel on south side is required for good illumination of daylight inside.

What are the benefits using Daylight panels over windows?

- Research studies have shown that Daylighting in work & living spaces is good for physical and psychological health of building users. Health benefits of building occupants should outweigh all other benefits and considerations.
- Using Daylight panels, for every 100 Sq.m of floor area, 1KW of electrical lighting load can be reduced for 8-9 hours a day reducing building energy consumption. A small investment on sunlight redirection panels pays back in short period!



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