

**Skyshelves™ VG**

**Heat + Glare blocker for Glass**

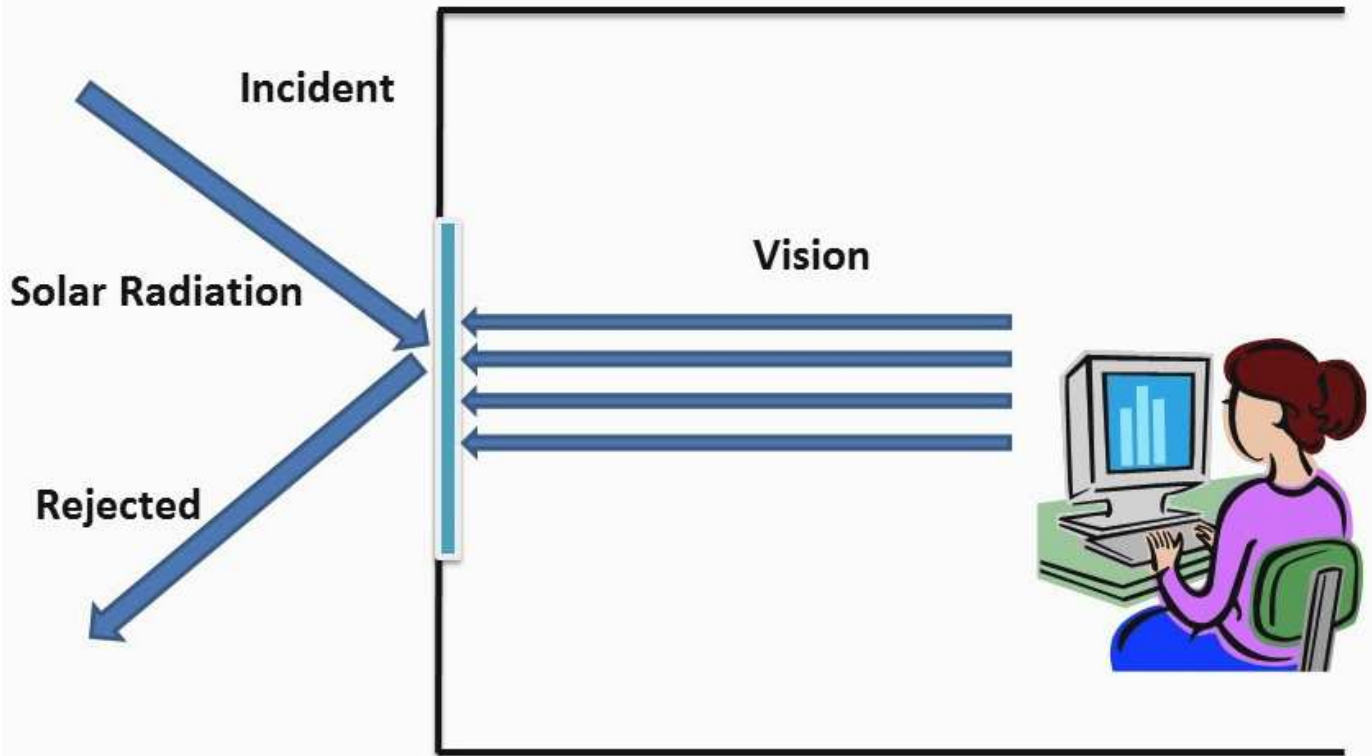


Fig.1

**Diagram showing function of Skyshelves VG**

**Features**

- Improves Daylighting.
- Reject heat& controls glare.
- Good vision through panel (up to 70%).
- Simple and passive system.
- Easy to fix light weight panels for existing & new buildings.

## Working

Glass is transmittive media. Using glass, people get connected to exteriors and work with nature's cycle. Buildings look more expressive because of views through it. This is most sought out feature of glass and reason why glass is used in building fenestration. Glass also allows solar radiation inside giving light & heat. Excess light causes glare and heat in warmer countries is unwelcome. Using blinds on glass will help only in reduction of glare. It doesn't help in heat reduction and increase of Daylight. They reduce vision through glass.

**Skyshelves VG panels - Block the heat, Reduce glare, and improve Daylighting retaining the vision of Glass.**

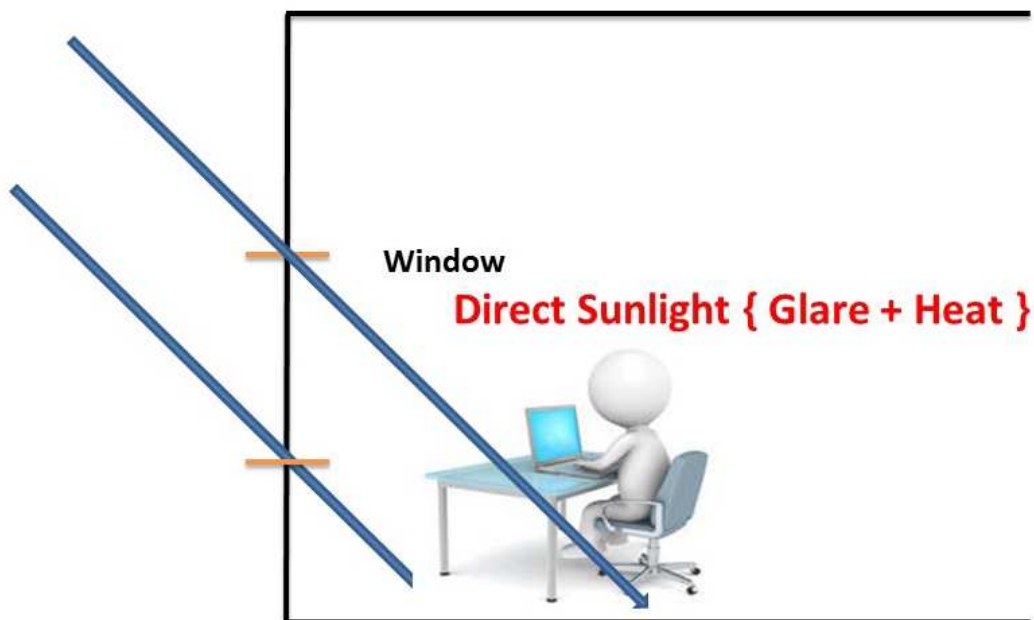


Fig.2

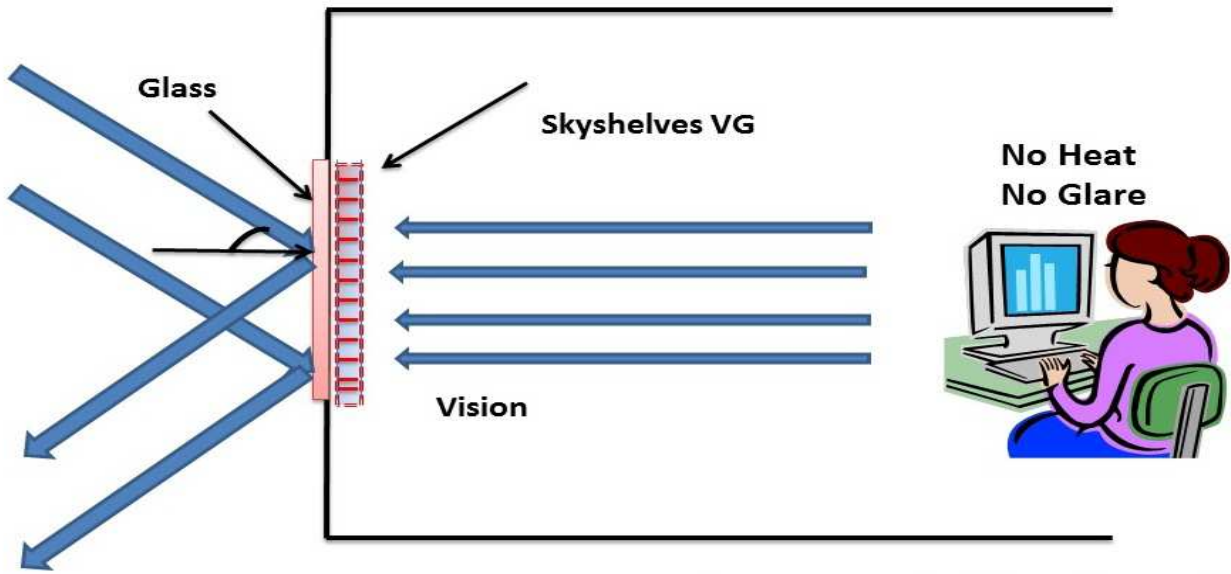


Fig.3

{ High angle cutoff }

Solar radiation is

rejected from 9.00 am to 5pm (Higher sun elevation angles) associated with heat. Fig.3. This is in contrast to fig.2. Where glass allows all radiation inside.

During early morning time and late evening time light is allowed to pass through inside allowing Daylight to penetrate deep inside.

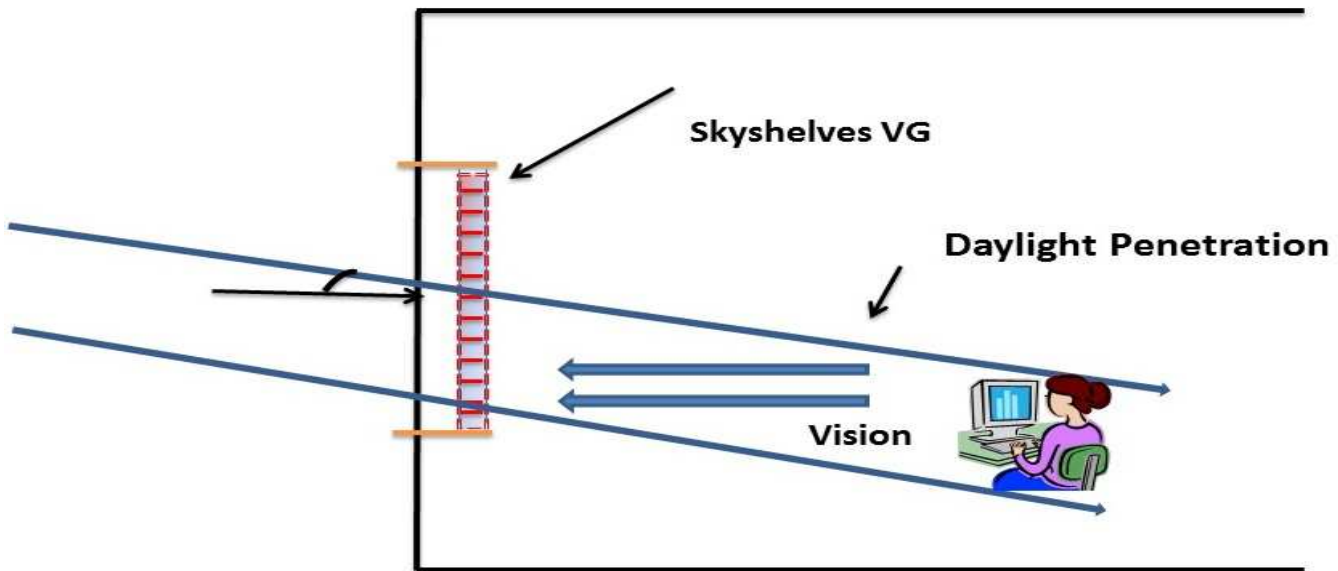


Fig.4

{ Low angle Pass }

Note: The time mentioned above is general and changes from latitude of the region.

**Blocking Angles**

Skyshelves panels are available to block for solar elevation angles of 30° and 40°.

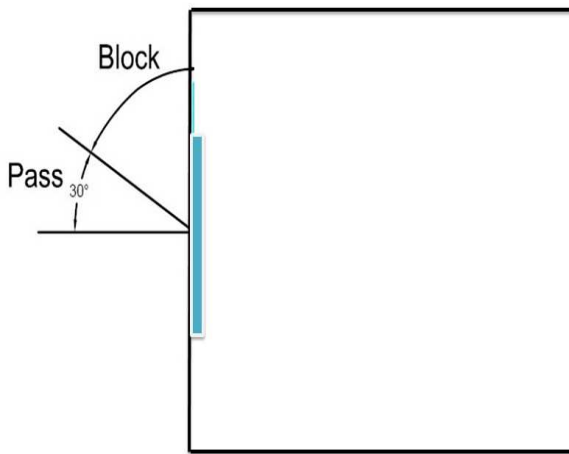


Fig.5 Shows 30° Angle Blocking

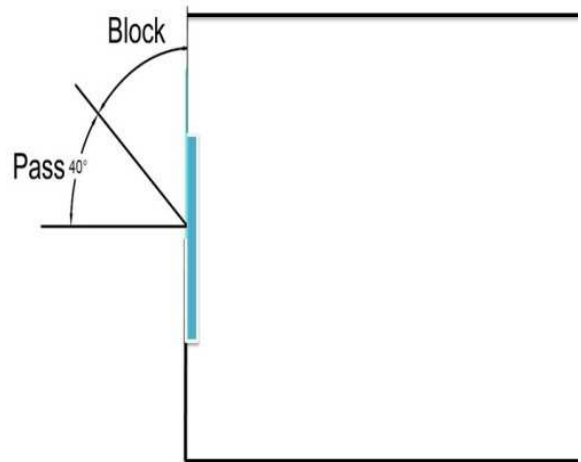


Fig.6 Shows 40° Angle Blocking

**How it affects SHGC:**

Sun elevation angle	SHGC	U value	Vision Transmission
0	0.6	2.5 w/ sqm ° K	65%
40-60°	0.2	-	

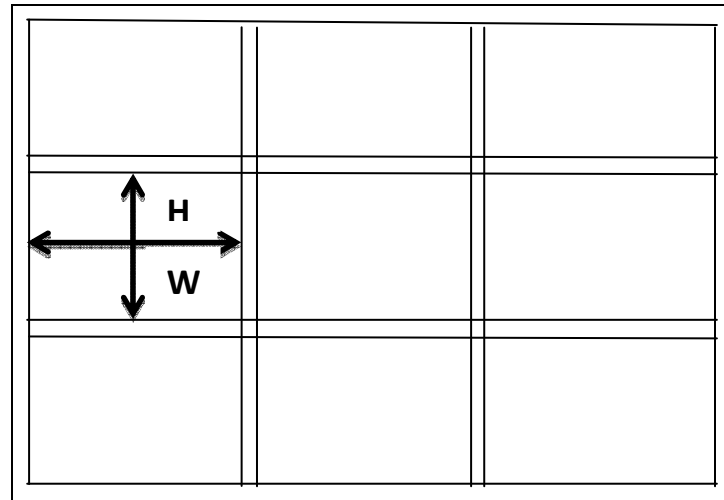
(Glass Specification: 5 mm tinted, 5 mm clear with 15 mm air gap.)

**New & Existing Buildings**

Skyshelves VG panels can be double glazed with glass with 15mm Air cap or gas filled for new buildings and used in place of routine glazing. The IGU/DGU making is conventional process only.

For existing buildings, they can be fixed inside the existing glass of windows or glazing similar to blinds.

Ordering Information



Structural Glazing

In case of existing buildings measure height (h) and width (w) from center of Frame holding the glazing. Count the number of --- panels by size.

**Size (in mm):** h x w

**Quantity:**

For new buildings, the building architect, the glazing consultant, façade contractor can give the sizes of panels required. For windows the process is similar.

**Specification:**

**Outer Framer:** 12 mm x 12 mm, Anodized Aluminum frame for DGU making.

**Vertical rods:** Anodized aluminum

**Slats:** PMMA, 5 mm thick.

24 mm x 12 mm x 12 mm anodized aluminum frame for existing buildings.

**Sizes:** To be mentioned in millimeters only.