



# SUN·GOLA

## PASSIVE SUN CONTROL

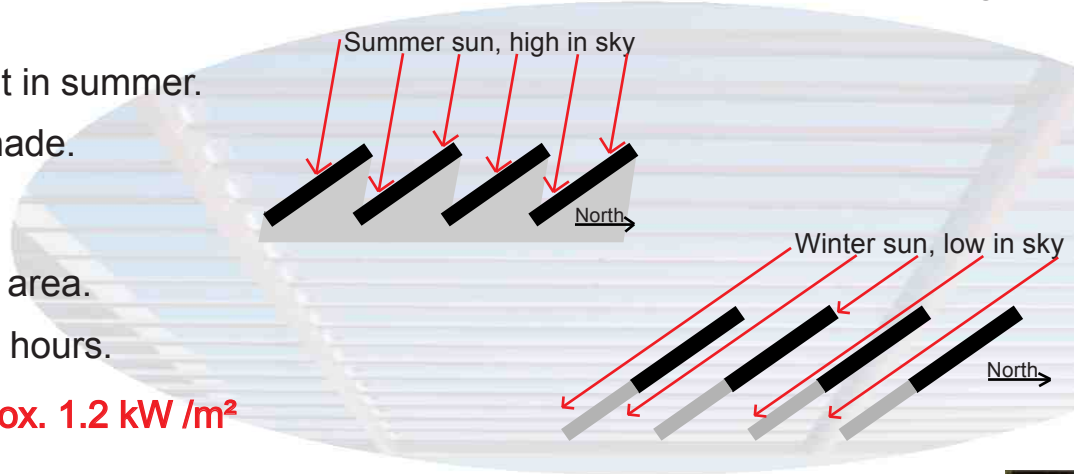
Exclusive to SOLAR OPTION  
[www.solaroption.com.au](http://www.solaroption.com.au)

West Australian designed, made and owned.



**Solar optimised to provide appropriate shade year around.**

- ☺ Minimise cooling cost in summer.
- ☀ Maximum summer shade.
- ☺ Natural ventilation.
- ☺ Outdoor entertaining area.
- ☀ Maximum 14 daylight hours.
- ☀ **Summer energy approx. 1.2 kW /m<sup>2</sup>**



- ☺ Minimise heating cost in winter.
- ☀ Minimum shade in winter.
- ☀ Natural heating/lighting.
- ☺ Reduce rain penetration.
- ☀ Minimum 10 daylight hours.
- ☀ **Winter energy approx. 0.9 kW /m<sup>2</sup>**

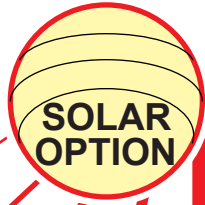


- ⌘ Improve energy efficiency of your home.
- ⌘ Integral gutters remove rain water.
- ⌘ Shade alters with season.
- ⌘ All metal construction.
- ⌘ Low maintenance.
- ⌘ Installed or DIY.
- ⌘ Choice of colours.
- ⌘ No moving parts, to wear/replace.



For obligation free quote Ph. **0410 946 356** :- ask for Steve.

or email details to:- [steve@solaroption.com.au](mailto:steve@solaroption.com.au)



The  
Original

# SUN•GOLA

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The most efficient way to capture/use solar energy is by directly; absorbing the heat, or utilising the light.

Using sunshine to heat your house is ideal in winter, but the opposite in summer. Ideally, allowing sunshine in during winter **and** excluding it in summer is required.

**This is exactly why the SUN•GOLA was developed.**

The benefit of shade in Summer is clear, but few realise that **total shade** can become a liability in Winter. The geometry of the SUN•GOLA remedies this, **assuring both:**

- **Total shade** in Summer.
- Minimum (approx. **20%**) shade in Winter.

Sun **intensity** and **daylight hrs.** are greatest during **Summer**, making maximum shade paramount. As both reduce in winter, benefits from heating/daylighting are also reduced, needing to be exploited fully in the hours available.

During **Winter**, let the sun enhance liveability as the SUN•GOLA enables easy penetration of heat and light. Dispensing welcomed warmth and natural daylighting directly into your home, helping offset/reduce heating energy costs and reducing lighting needs on overcast days.

During **Summer**, when the sun is high overhead, the SUN•GOLA keeps areas totally shaded, and therefore also more suitable/useable as an outdoor entertaining area.

Shaded area provides a buffer from direct sunshine, helping reduce the heat-load on the interior of the building. Once heat (in direct sunlight) has penetrated windows you require energy to expel it. Blinds/curtains stop light/heat inside the window.

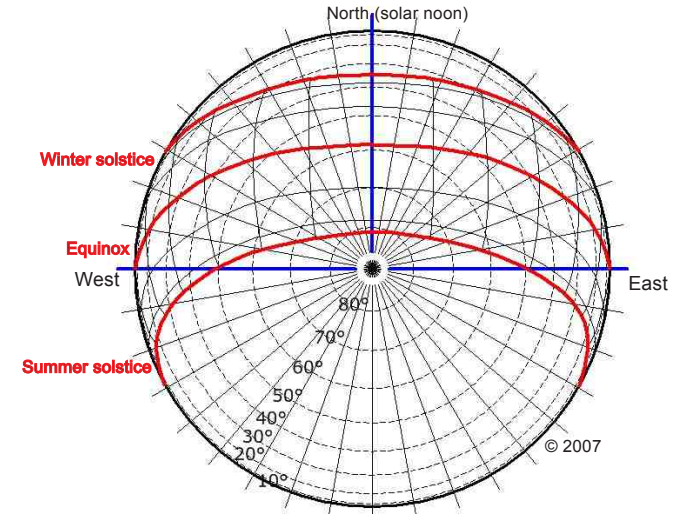
**Stop the summer heat before it reaches the glass.**

During summer you may experience some mid-day sun, by early afternoon the sun moves to the south-west and behind the 'louvre overlap', providing total shade.

# SUN•GOLA

At the **Winter** solstice (June 21) the sun rises/sets (approx.) **29° north** of East-West, only reaching an altitude of **35°** at solar noon, with around **10 daylight hrs.**

The low angle of **SUN•GOLA** shade elements allows the sun through all day, to heat and light your home.



Sun path over Perth (32°s)

At the **Summer** solstice (December 21) the sun rises/sets (approx.) **29° south** of East-West, reaching an altitude of **81°** at solar noon, with up to **14 daylight hrs.** The **SUN•GOLA** shade element overlap prevents those extra hours of (more intense) heat entering directly into your home.

In between the two extremes is a gradual transition.

Only **SUN•GOLA** is optimised to provide such shade extremes (summer to winter), with excellent longevity.

**Integral gutter system reduces rain penetration.**

No timber to warp! cloth to sag! or moving parts to wear!

If you're serious about functional passive sun control, when renovating/building, MAXimise energy savings by increasing North-facing windows, and replace eaves with a

**SUN•GOLA.**

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