



● aluminium & plastics systems

SR 200 SOLAR RANGE

Architectural Solution

The SR200 Solar Range System offers a bespoke vertical or horizontal shading solution made from extruded aluminium louvre blades to suit and enhance any building both architecturally and aesthetically.

Solar Shading

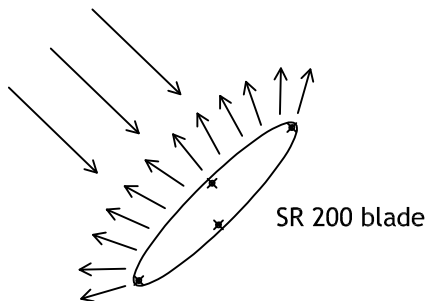
The SR200 Solar Range System gives a good balance between solar control and light entry. External solar shading is often preferable as it cuts down on the sunlight before it enters the building therefore keeping the internal more comfortable.

Solar Heat Gain

The shading will reduce solar glare therefore enhancing the internal environment of the building by cutting down the suns energy before it hits the glass. In the winter passive solar energy will still be transmitted to the building.

Elliptical Blades

When sunlight strikes the elliptical blade it is diffused, therefore softening and improving the quality of the light entering the building.



Maximum Size / Weight

Any fixing point must be capable of supporting and transferring to the main structure not less than two times the load it will be subjected to (ie the dead load of the Solar Range plus the wind load). It is vital that the loading for the anchor bolts is calculated on a similar basis.

Thermal Movement

Consideration should be given to thermal movement at the design stage. The coefficient of thermal expansion for aluminium is 0.000024 per degree centigrade. Therefore for normal British Isles mid summer / winter temperature variation the length of any exposed profile may vary by $\pm 1\text{mm}$ per metre over a temperature range of $(-15^\circ\text{C}$ to $+45^\circ\text{C})$.

Maximum Module Size

Type	Module Width	Module Length
Horizontal	three blade (815mm)	Max 2500mm
Horizontal	four blade (1062mm)	Max 2000mm

Type	Module Height	Module Length
Vertical	1800mm (between fixings)	2500mm (between fixings)

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Page **SR-1:2:1**

Rev. - Date -



Performance
SR 200 Solar Range System

D
E
F

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B
C

Revisions