



SOLAR  
SHADING

GRILLES | DIFFUSERS | LOUVRES | DAMPERS | SOLAR SHADING | NATURAL VENTILATION

# solar shading

[www.gdl.co.uk](http://www.gdl.co.uk)



## Intelishade Solar Shading - Horizontal Fixed System

### Intelishade – Solar Shading

We have developed a range of architectural standard and bespoke solar shading systems designed to enhance and shade the most elegant of buildings. Our Intelishade systems are a part of our 'Intelligent Solutions' range that offer low carbon, innovative alternatives powered purely using natural energy sources.

It is increasingly important for buildings to run effectively and sustainably with low energy consumption and operating costs, yet maintain the required aesthetic design. Our Intelishade range meets all the crucial requirements necessary for an aesthetically pleasing low carbon solution.

### Description

The Horizontal Solar Shading System provides excellent shading during the summer months primarily on the south elevations where the higher sun angles are blocked reducing both glare and solar heat gain.

### Construction

Support frame manufactured from extruded aluminium in either a polyester powder finish or anodised finish. Alternative support systems can be provided in polished or brushed stainless steel to cater for variation in loads and environmental conditions.

Traditional single skinned either extruded or fabricated blades have a lighter feel to them but as a consequence are less rigid. The reduction of rigidity makes them more applicable to short spans between supports (generally spans up to 1200mm).



horizontal

vertical

motorised

### Horizontal Solar Shading Systems

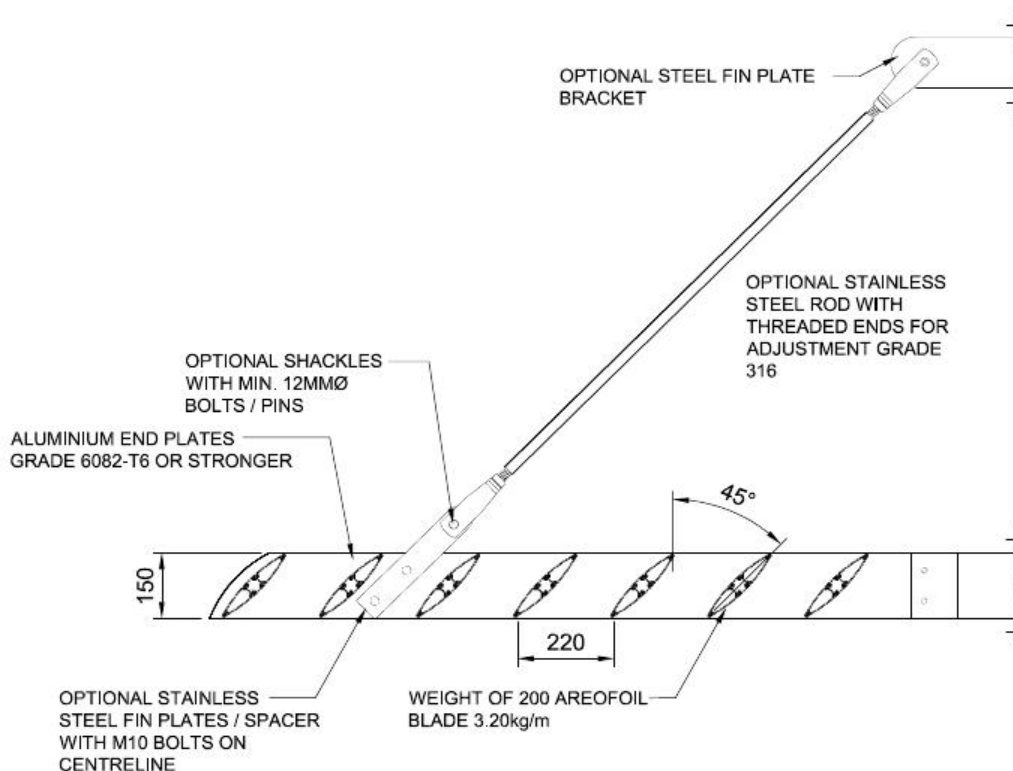
Primarily used for Southern elevations to protect against high sun angles.

Side arms or in most cases referred to as side 'cassettes' are an integral part of the feature of the system.

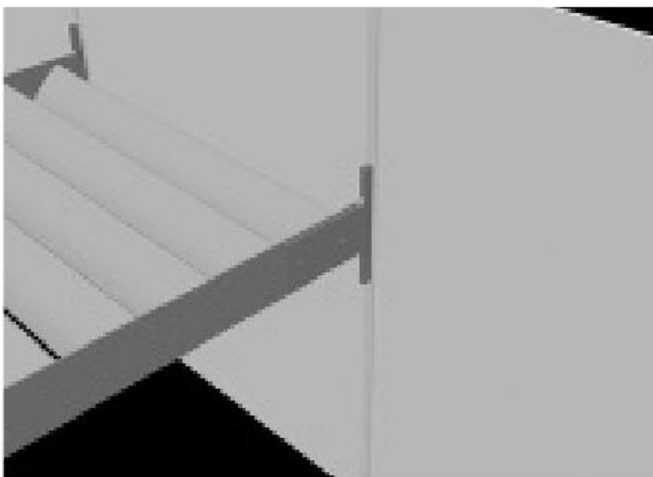
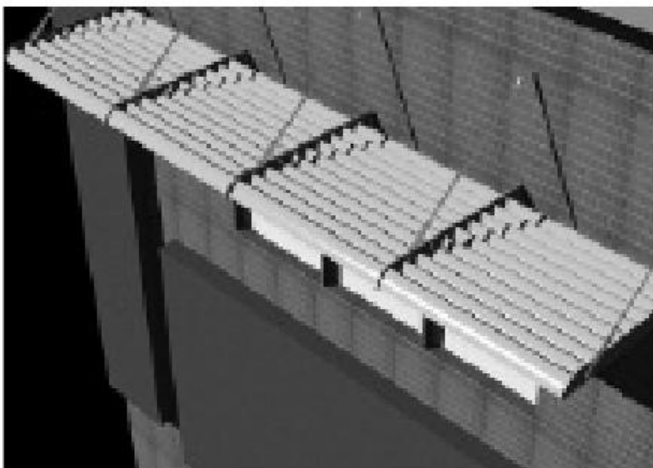
The cassettes come in various profiles to suit the requirements of the architects and engineers. The side arms are usually made from 6 -10mm thick aluminium finished to the client's specification.

Additional diagonal support arms are required for larger projections and higher wind loadings.

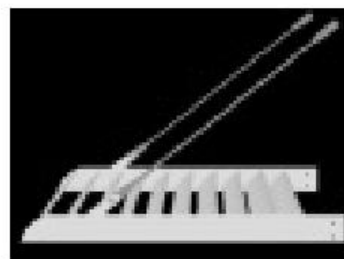
Support arms are available in either powder coated aluminium or stainless steel.



## Intelishade Solar Shading - Horizontal Fixed System



| Blade   | Profile | A mm   | B mm |
|---------|---------|--------|------|
| ISE150  |         | 150    | 34   |
| ISE165  |         | 165    | 30   |
| ISE200  |         | 200    | 34   |
| ISE250  |         | 250    | 40   |
| ISE300  |         | 300    | 50   |
| ISE442  |         | 442    | 68.6 |
| ISE617  | 617     | 68.6   |      |
| ISL75   |         | 86.89  | 75   |
| ISL150  |         | 138.11 | 75   |
| ISLC75  |         | 86.89  | 75   |
| ISLC150 |         | 138.11 | 75   |



# Intelishade Solar Shading - Vertical Solar Systems

## Description

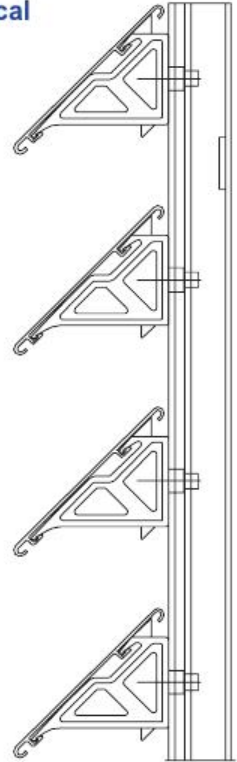
The Vertical Solar Systems provide excellent shading to the east and west elevations of the building catering for the lower sun angles. The same blade options are available offering the architect flexibility to design an aesthetic facade to the building while still providing excellent vision through the glazing.

## Motorised Shading

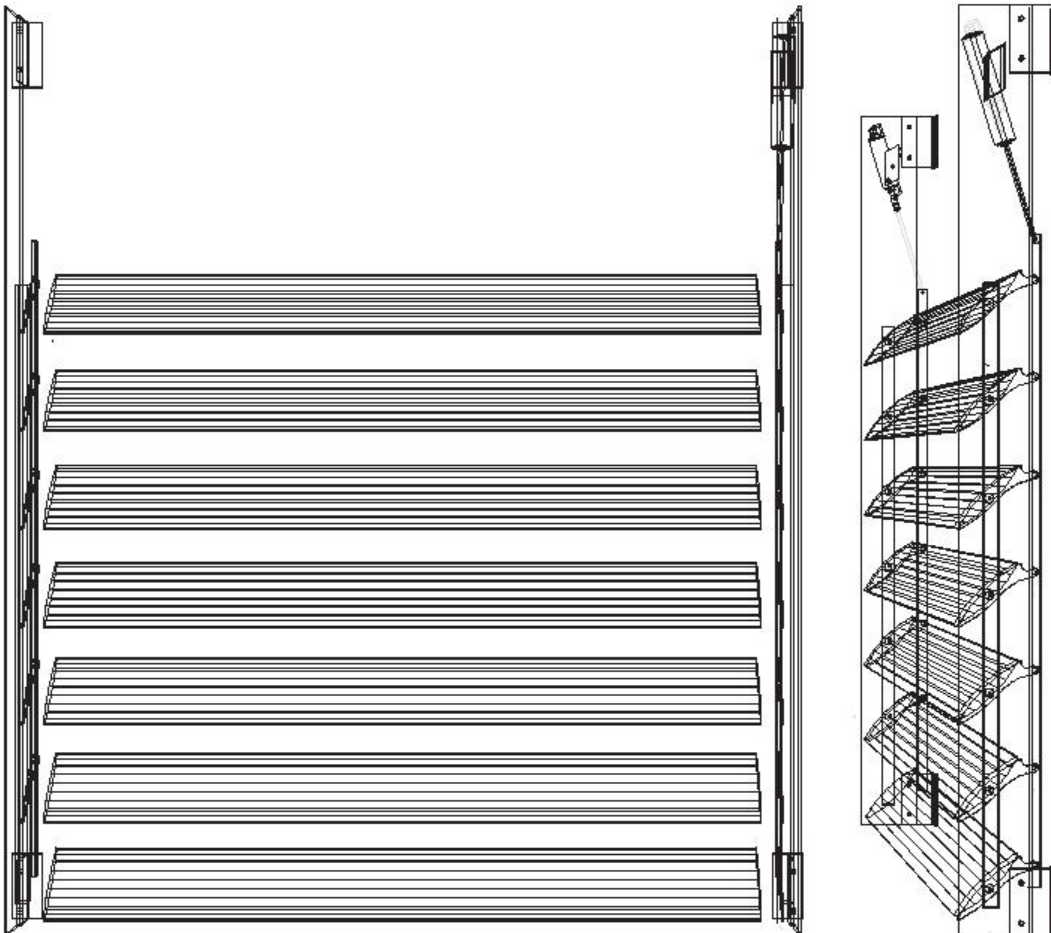
Motorised systems are designed to give uncompromised shading and daylight entry at all times of the year by tracking the sun's rays throughout the day.

The systems are vertically mounted and can be powered by the sun itself using our solar cell control systems.

Fixed Vertical



## Motorised System

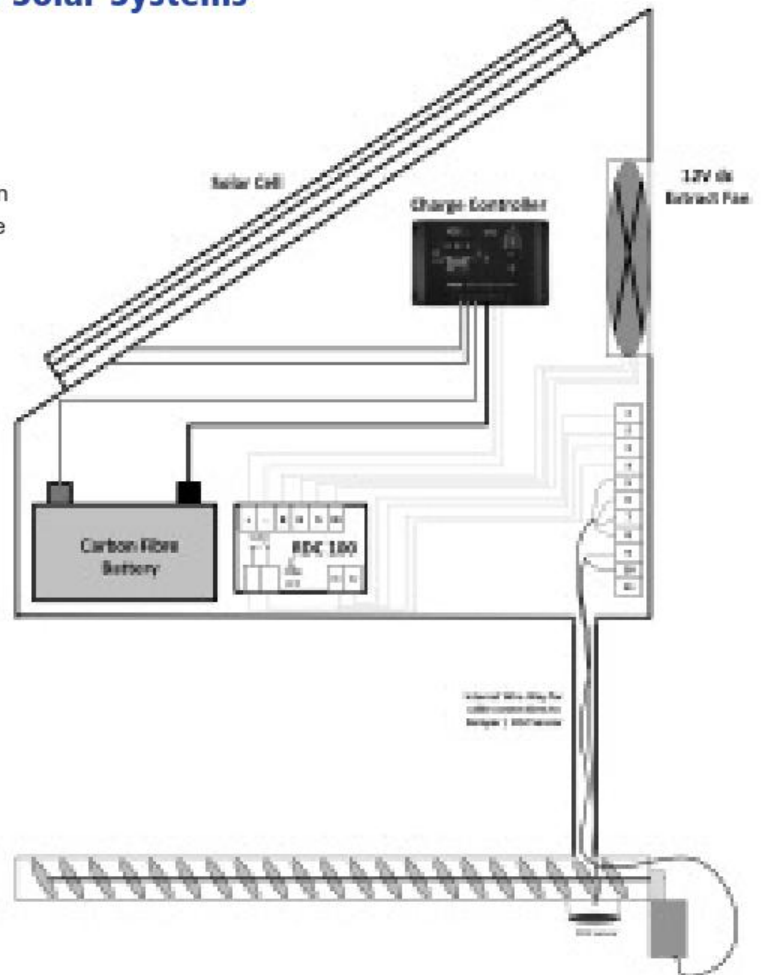


# Intelishade Solar Shading - Vertical Solar Systems

## Control Options

GDL Brightness Transmitter and Solar Power Unit

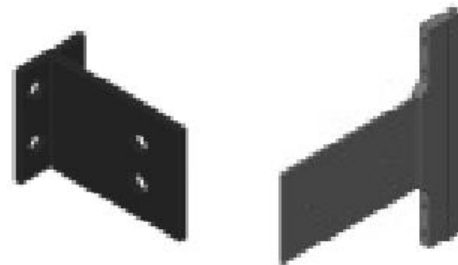
The solar blades can be moved into the optimum position by proportional voltage using information from 8 separate sensors set at 45° segments.



## Installation / Bracketry

Standard bracketry is available to affix the Intelishade systems to most building types including:

Brickwork \* Cladding \* Steelwork \* Blockwork \*  
Glazing Bracketry \* Steelwork and Cladding Bracket



## Product Specification

Please specify width and projection.  
e.g. ISE-M24200BALG+P

| Blade type             | Fixed/Motorised       | Blade Size | Nosing       | Blade Material | Fixed to           |
|------------------------|-----------------------|------------|--------------|----------------|--------------------|
| ISE (Elliptical)       | F (Fixed)             | 150        | N (None)     | AL (Aluminium) | G (Glazing)        |
|                        | M24 (Motorised 24V)   | 165        | T (Tube)     | WD (Wood)      | M (Masonry)        |
|                        | M240 (Motorised 240V) | 200        | B (Bullnose) |                | S (Steel/Cladding) |
|                        | SP (Solar powered)    | 250        | C (Channel)  |                |                    |
|                        |                       |            | 300          |                |                    |
|                        |                       | 442        |              |                |                    |
|                        |                       | 617        |              |                |                    |
| ISL (Louvred)          |                       | 75         |              |                |                    |
|                        |                       | 150        |              |                |                    |
| ISLC (Louvred curved)  |                       | 75         |              |                |                    |
|                        |                       | 150        |              |                |                    |
| ISLB (Louvred bespoke) |                       | 75         |              |                |                    |
|                        |                       | 150        |              |                |                    |

| Support                   | Finish        |
|---------------------------|---------------|
| RA (Aluminium Rods)       | P (PPC)       |
| RS (Stainless Steel Rods) | AN (Anodised) |
|                           | V (Varnished) |
|                           |               |

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