



**element control  
systems**

commercial louvres,  
solar shading, ventilation  
& fire protection

## ELEMENT CELL SUN CONTROL PANELS

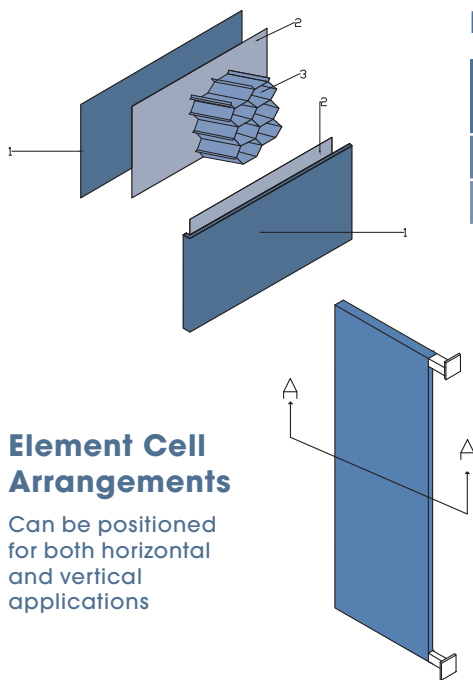
34 Wingfield Road  
Wingfield SA 5013  
sales@ecsystems.com.au  
phone 08 8243 0011  
fax 08 8243 0711

[www.ecsystems.com.au](http://www.ecsystems.com.au)



## ELEMENT CELL SUN CONTROL PANELS

Based on aluminium honeycomb technologies that evolved through research and development within the aviation industry, ElementCell Sun Control Panels are exceptionally strong, flat and lightweight. Comprising of pre-coated aluminium skins bonded to an expanded aluminium honeycomb core, ElementCell Sun Control Panels can be square, rectangular or irregular shapes. This provides a multitude of design possibilities for sun control applications.

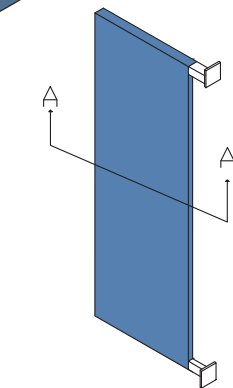


### Element Cell Configuration

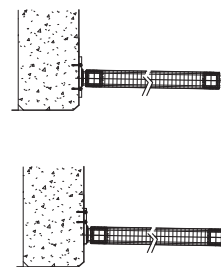
1. Pre-coated and roll formed aluminium external skin
2. Adhesive film
3. Aluminium honeycomb

### Element Cell Arrangements

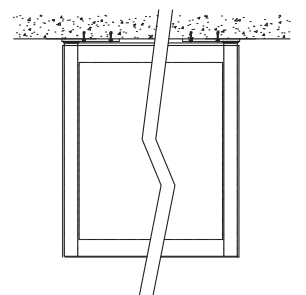
Can be positioned for both horizontal and vertical applications



Proprietary Support Fixing



Section A  
Typical Fixing Methods



Plan View



## ABOUT THE PANELS

### Applications

- Custom designed solutions to suit a variety of sun control applications.
- Enhance the exterior facades of new and existing buildings
- Suitable for commercial and residential buildings.

### Material

Pre-treated aluminium honeycomb fixed within pre-coated and roll-formed aluminium skins.

A range of standard and customised powder coated colours are available.

All parts are covered by the Element Control Systems standard warranty.

### General

ElementCell Sun Control Panels can vary in thickness, size and shape that can be curved and folded to suit specific requirements.

These extremely rigid panels can be installed in a multitude of orientations that can span vertically, horizontally or in inclined positions and can be fixed to a variety of sub-frames.

This versatility enables economical use of varying configurations where the requirement is to control extremes in temperature caused by direct sunlight onto a building and also to provide a pleasing visual effect across a building façade.

Clean lines and a slim design are achieved.

ElementCell Sun Control Panels are a cost-effective solution minimising the effects of direct sunlight through the reduction of passive solar radiation, thus reducing the load on internal air conditioning systems.



## Installation

Installation processes are quick and simple with minimum fixings to a structure, while the inherent strength of the honeycomb panel requires a limited number of supports.

Being light in weight the assembled structure is easily moved if required.

ElementCell Sun Control Panels use a concealed fixing bracket system with a number of options available dependent on the application.

Fixing details are customised solutions specific to each project.

Installation can be independent of the facade construction. This is an option where the ElementCell Sun Control Panels can be engineered to be installed during or after the built project.

## Material Dimensions

Length: < 4500mm

Width: < 1500mm

Thickness: 25mm | 36mm | 50mm  
Other thicknesses available on request

## Internal Construction

Honeycomb Core (Pre-treated Aluminium)

Alloy: AA3003

Foil Thickness: 0.076mm

Cell Size: 12mm | 19mm

## External Construction

Aluminium Skins (Pre-coated Coil)

Alloy: AA3005, H44

Thickness: 0.7mm | 1.0mm