

External
Venetian
Range

EV80

evaya 



The ev80 External Venetian Series heralds a new era in attractive and versatile shading solutions. It has been developed to benefit the continuing evolution of building design and sustainability.

As we are becoming more aware and concerned about the impact we are having on the environment and our surroundings, we are beginning to understand the importance and benefits of external shading.

This is becoming particularly evident when relating to matters concerning carbon and greenhouse gas emissions and is being reflected in recent architectural, building and design trends. With this in mind, the ev80 has been designed to effectively:

- Reduce solar glare and transmission.
- Contribute markedly to the reduction of heat gain through glazing.
- Provide shading and cooling in warmer months.
- Allow the passive entrance of solar radiation during colder periods.
- Reduce household energy consumption and expenditure.
- Enhance the comfort and well being of those living and working inside.

Streamlined and functional, the ev80 is capable of efficiently shading large expanses of glass whilst at the same time creating a striking facade. Their unique design means they can be operated to allow the entrance of natural light without glare, all the while maintaining exterior views. The aluminium slats of the blinds can be either tilted to varying angles or retracted by remote control, switch operation or integration with CBUS and Building Management Systems.

Incorporation of Sun and Wind Sensors means optimal operating parameters may be achieved automatically.

Available in a range of styles and finishes and able to be retracted and concealed when not in use, all our blinds are manufactured and engineered at our premises located on the Mornington Peninsula. This not only ensures we can provide unique lead times, it also means that critical client support and assistance is readily available.

Combining European component technology and precision with ongoing product development from our in house R&D team means we are able to create high performance shading solutions designed specifically for our climate.

EV80 Specifications



Operation:

As a general rule, the ev80 is lowered in the vertical or closed (0 degrees) position and raised in the horizontal position (90 degrees). The slats can be tilted and rotated at various angles between these parameters. This may be altered, if required, with a maximum 180 degree operating range.

Blade angles can be adjusted incrementally to control solar glare and heat gain whilst allowing the entrance of natural light during summer. Conversely, during cooler months, heat and light may be directed into a building to increase passive heat gain while minimising glare.

When not in use the ev80 can be retracted and concealed in a pelmet or recess. With a range of styles and finishes available and able to be installed under eaves, within soffits or onto the faces of buildings, it is fast becoming the most effective shading solution for our climate.

Benefits:

Utilising the innate properties of aluminium, which provides high solar radiation reflection and low absorption and transmission values, the ev80 can act to effectively reduce:

- household energy requirements.
- carbon dioxide and greenhouse gas emissions.
- expenditure.

Locally and environmentally, these systems maximise internal light and thermal comfort levels whilst allowing external views to be maintained.

Slat

The 80 C Rolled Edge Slats of the ev80 are manufactured from aluminium reinforced with copper free aluminium alloy to provide added strength and flexibility. The material is 0.45 mm gauge, chemically pre-treated and stove enamelled. Roll formed and machined on our premises utilising the most advanced technology and operating systems. Slats are scratch, shock and corrosion resistant and available in a range of Standard Colours with Project Specific Alternatives and Custom Colours available upon request.

Tilting and Lifting Devices:

- Bearings: located in the 56 x 58 mm extruded aluminium head rail, enable the slats to alter angle direction smoothly and efficiently.
- Ladderbraid : Upon which the blind slat is either rested or fastened (refer to omega punching) is woven and reinforced with Kevlar/ Aramid fibres.
- 8mm Texband Anti-Friction UV Stable Lift Tape is utilised to raise and lower the slat bundle.
- Omega punching of aluminium slats, a process by which a horse shoe shaped cleft is machined at various intervals along the length of the slat and through which the ladderbraid is fastened, acts to ensure the correct spacing between blades and enhances both incremental adjustment of slats and inherent wind stability of the blind.

Profiles, side channels and pelmets:

- Extruded with non-corrosive aluminium alloys.
- Available in a range of finishes, including anodised and powder coat colours.
- Designed and engineered by evaya.

EV80 Blind Types



Type 1: Wire Guided:

Wire guides are an effective means of anchoring External Venetian Blinds to their fixings and provide minimal visual obstruction. High quality 316 marine grade stainless steel wire is utilised and which is coated with a UV stable PVC sheath to prevent interference and friction with the slat surface. A unique attachment system fastens the wire to the headrail and numerous options are available as anchoring or termination points, including deck plates and stand offs.

It must be noted that, as with all wire guided blinds, wind loading will result in the blind vibrating and resonating and that there will always be an associated 20 percent filtering of light through the slats due to their single concave/convex design.

Type 2: Side pins

Where stable and refined operation is required the benefits of utilising side channel guidance systems far outweigh any other means of securing External Venetians. Side pins, constructed from Zamac, are an innovative means of stabilising and improving the performance of these blinds.

Zamac is a family of alloys with a base metal of Zinc, with elements of Aluminium, Magnesium and Copper. These pins are machine riveted to the slats which then engage into the side channels. Each extruded aluminium side guide has a plastic insert (or keder) which acts to minimise friction, resistance and resonance.

Type 3:

Specifications as per Type 2 with the addition of Double Pinning which incorporates Side Pins on both sides of individual slats.

Combinations of Wire Guides and Side Channels

The option is available for utilising both Side Channels and Wire Guides on alternating sides of individual blinds should it be required.

Type 4:

Left Hand Side Channel with Right Hand Wire guide.

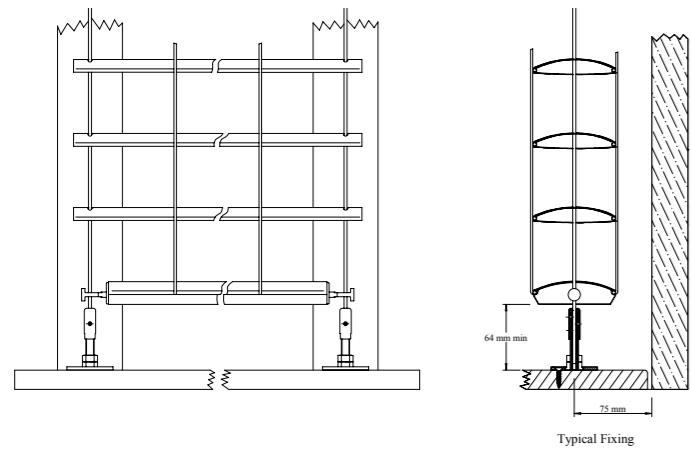
Type 5:

Left Hand Wire guide with Right Hand Side Channel.

Further information and technical specifications relating to the ev80 and all our other products are available for download as data sheets from our website. If you have any queries or would like to discuss further please feel free to contact our office.

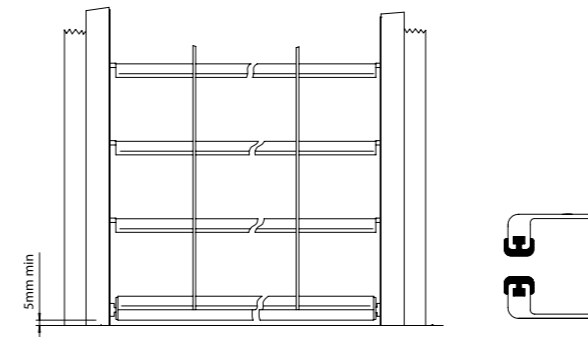
EV80 Guide Types

Wire Guide with Deck Plate



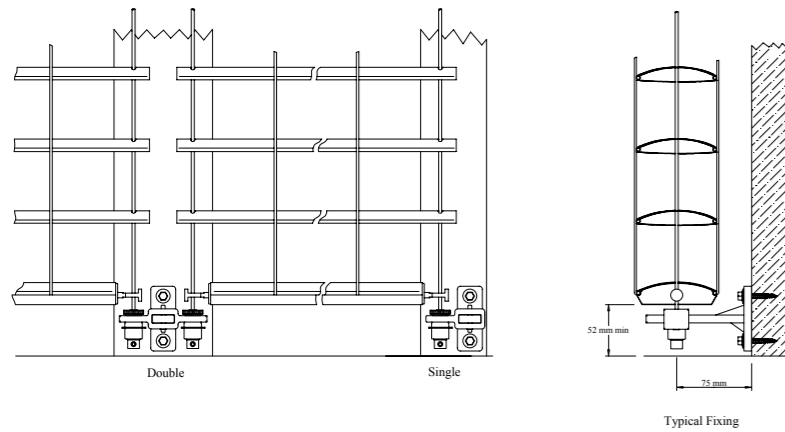
- 3.2mm stainless steel cable
- UV protected coating
- Surface mounted deck plates and wire tensioner

Side Channel Type B



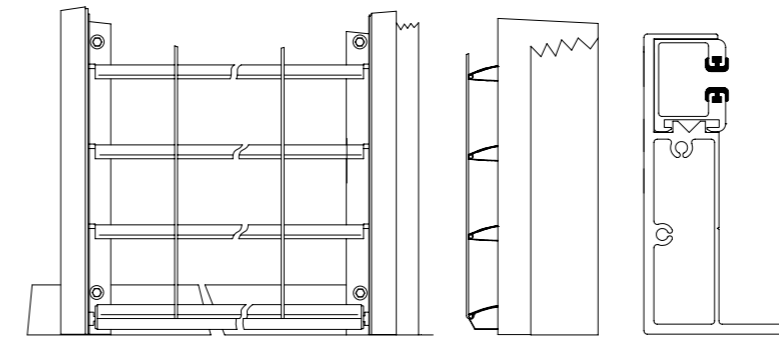
- Side fix application
- Minimal fixing requirements
- Assists installation to foam or lightweight construction
- Engineered keder inserts

Wire Guide with Stand-off



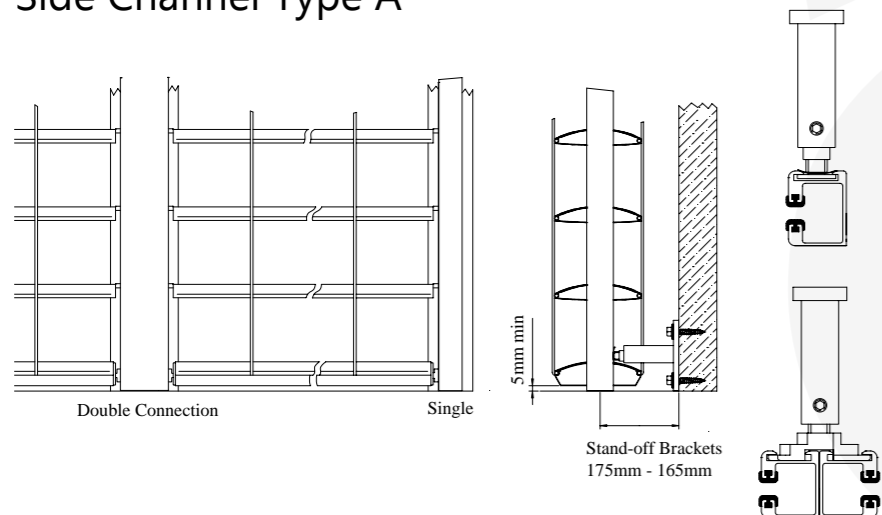
- 3.2mm stainless steel cable
- UV protected coating
- Face fix application
- Angle bracket and wire tensioner
- 50mm – 128mm projection

Side Channel Type C



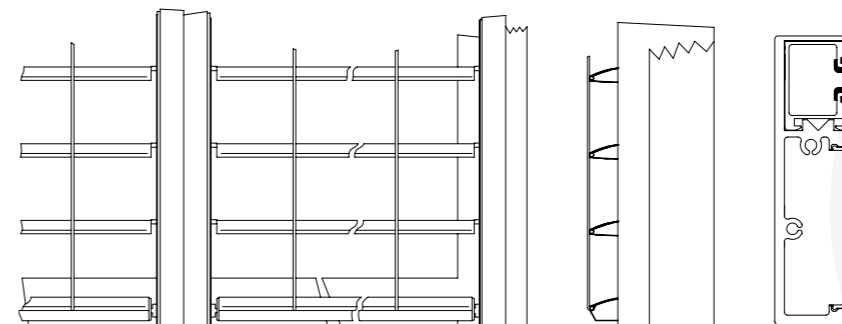
- Face fix application
- Heavy duty channel for enhanced wind stability
- Minimal fixing requirements
- Assists installation to foam or lightweight construction
- Appealing integrated aesthetic
- Engineered keder inserts

Side Channel Type A



- Face fix application
- Telescopic brackets
- 75mm – 165mm projection
- Engineered keder inserts

Side Channel Type D



- Side fix and double channel application
- Removal side panel for concealment of fixings
- Enhanced wind stability
- Minimal fixing requirements
- Assists installation to foam or lightweight construction
- Appealing integrated aesthetic
- Engineered keder inserts

EV80 Slat Colours



White VSR 010



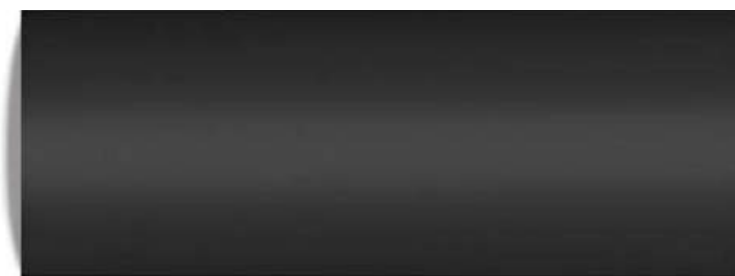
Silver RAL 9006



Dark Silver RAL 9007



Graphite CT 5439



Black RAL 9005

80 C Rolled Edge Aluminium Slats:

The 80 C Rolled Edge Aluminium Slats of the ev80 are:

- Reinforced with copper free aluminium alloy to provide added strength and flexibility
- 0.45 mm gauge, chemically pre-treated and stove enamelled.
- Roll Formed and Machined on our premises utilising the most advanced technology and operating systems.
- Scratch, shock and corrosion resistant
- Available in a range of Standard Colours
- Project Specific Alternatives
- Custom Colours available upon request

Precision machining punches and draws holes along the length of the slats to allow the passage and fastening of ladderbraids, Texband Lifting tapes and coated stainless steel wire guides where required.

Omega Punching, a process by which a horse shoe shaped cleft is produced at various intervals along the length of the slat, ensures correct spacing between the louvres. This facilitates both the incremental adjustment of blade angles and closure, whilst enhancing wind stability.

As with any colour sample or swatch, this brochure is a representation of the evaya 80C Colour Range and is meant as a guide only. Every effort has been made to present these colours as accurately as possible and as closely as modern printing processes allow. Please note that appearance may vary according to light source.

Where accuracy is vital a section of slat can be requested to confirm selection and colour match.

Please feel free to discuss alternatives with one of our representatives who will be more than happy to help you with your selection.

EV80 Controls

SOMFY

As a world leader in automation systems, Somfy offer a range of control solutions to suit your needs. Somfy's unique and stylish range of controls provides users with the ultimate in convenience – all at the touch of a button.

In conjunction with the broad range of Somfy sensors and without the need for occupant intervention, you have the ability to create comfortable, energy efficient environments within a building.

RTS Technology

Radio Technology Somfy (RTS) is a patented control protocol for the operation of radio receivers. With a range of 200mt in open spaces or up to 20mt through two reinforced concrete walls, Somfy RTS controls are the ideal solution.

Building Automation Systems

Somfy control systems are compatible with all home and building automation systems.

Wired Technology

The preferred option when simple wall switch operation is required or when connecting to a home or building automation system. It is possible to upgrade a wired system to radio technology simply by replacing the wired controls with a Centralis Uno RTS with inbuilt radio receiver.

animeo IB+

An intelligent system to control 1 to 16 zones and up to 6400 motors. Specifically designed for medium and large buildings.

Somfy Modvar remote control handsets

Modvar remote control handsets come in a broad range of colours and styles to suit any décor.

Revolutionary scroll wheel - specific for precise adjustment of venetian blind slats. Perfect for managing the level of heat and light entering a room.

Available in either 1 channel or 5 channel options.



Outdoor Radio Receiver

For connection of a wired motor to a remote control handset with scroll functionality. Wireless integration with RTS Sensors



Soliris Sun and Wind Sensor

Somfy's Soliris sun and wind sensor is available in a wired technology or an RTS radio solution. This sensor provides a smart functionality of the external blind without any need for your intervention.



The Somfy Touch Panel Controller

Brings home automation within the reach of every homeowner. The single, simple-to-use touch screen interface is your portal to a powerful and sophisticated system. It's so flexible, it enhances the comfort of you and your family and it raises the value of your home.



The MY function first lowers then tilts the ev80 to a preset blade angle of 45 degrees for optimal sun protection



Comprehensive timer function allows you to schedule control of every aspect of your home into the future

4 AC Motor Controller

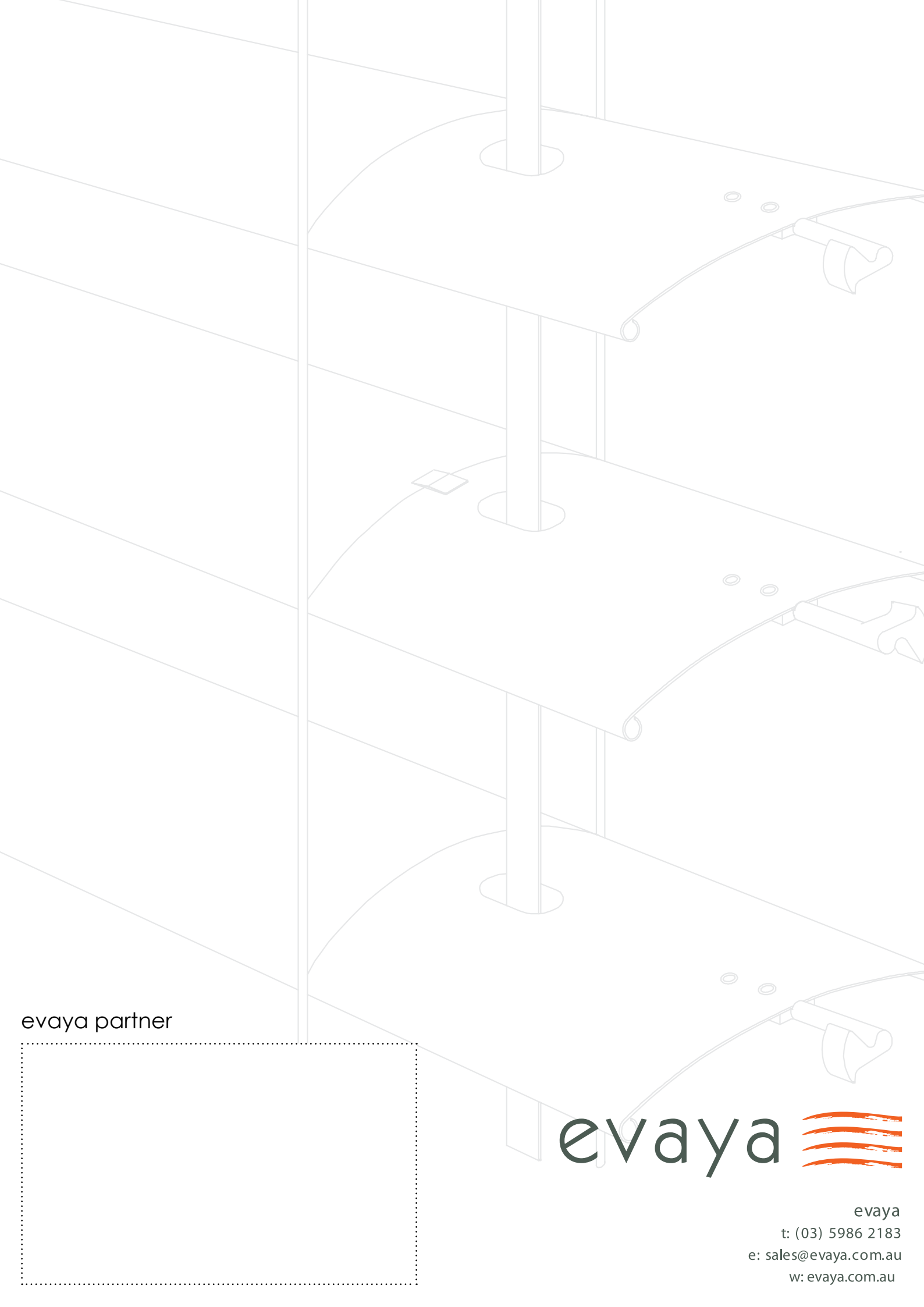
Control unit for 4 motors used in conjunction with Building Management Systems. Accepts volt free switching on master and individual BUS



RTS CARD

Radio receiver for Animeo's 4AC Motor Controllers. Allows for the use of an RTS transmitter with the Motor Controller.





evaya partner



evaya 

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