



Operable Louvre Roof

The Aurae operable roof systems are the ultimate compliment to any outdoor area. Giving you the ability to open your roof to take advantage of natural sunlight and ventilation, coupled with the option of closing it to provide a weatherproof shelter when weather conditions are unfavorable, you now have complete control over your outdoor living.



Aurae recognized the advantages of opening roof in the early 2000's, and set out to provide the Australasian market with a product that was superior to anything else available. The design brief was simple, with just three points:

- The system needed to be robust & reliable
- It had to be simple – to make, to install, to use
- And above all it needed to be architecturally appealing

The design team has achieved all three points with spectacular results, and the Aurae system is considered by leading architects and satisfied end-users throughout Australasia to be the finest on the market.

All components in the Aurae system are constructed from Aluminium, Stainless Steel, or engineered plastic bushings. The Italian electrical system includes a comprehensive range of wall mounted switches, hand held remotes, rain, sun, snow, and wind sensors that give you complete control over the operation of the system. There is even an option for a fully wireless home automation program, allowing you to open or shut the roof from your phone or tablet.





Aurora Roof

Aurora, the original system developed by Auraa, remains a timeless classic. With its perfectly ellipsoid blade profile and a unique interlock detail between the louvres, it has a soft and flowing appearance from above and below. Ideal for traditional styled homes.

The centre-pivot blades are driven via a simple yet very tidy link bar system, which over time has proven to be the most robust and trouble free drive mechanism available. The 24 volt direct current motor, along with the transformer and wireless receiver unit, is completely concealed from view. Clever design has ensured that none of this operating equipment is exposed, in keeping with our design brief. The Aurora blade was designed with more than just good looks in mind - its profile and detailing make it simple to keep clean. The wide smooth surfaces have no entrapments points for grime and are easy to wash down

The Aurora system is available in any powdercoat or anodized finish, and comes complete with the range of control equipment that is shared across the Auraa operable roofs.



Solaris Roof

The Solaris system was developed by Auraa in response to demands for a completely flat profile blade to complement the minimalist architectural styles of this decade. Having rapidly become popular with the architectural fraternity for use on modern style houses, the Solaris remains the biggest seller in the Auraa range.

While sharing much of the same componentry as the conventional Aurora system, the Solaris has its own unique benefits. The louvre blades will span much greater distances than previous models, and the perfectly flat surface on both the top and bottom allows for easy cleaning.

Like the other Auraa roof systems, the Solaris system is available in any powdercoat or anodized finish, and comes complete with the range of control equipment that is shared across the Auraa operable roofs.



Controls

The Auras operable roof systems come complete with a full range of electronic control options. Designed and produced in Italy specifically for outdoor living areas, these controls are both robust and aesthetically appealing.



Wall Switch

The wall switch is issued as standard on all Auras operable roof systems. Being completely wireless, it gives you the option of positioning it anywhere you like (within range) without extra electrical work.



Rain Sensor

A rain sensor is one of the most common addition to an opening roof. It provides peace of mind that even if the roof is left open, it will close once rain begins.



Wind Sensor

Wind sensors are can be required in particularly high wind zones, and open or close the operable roof dependent on the wind speed.



Remote Control

The remote control brings flexibility to the control system. With a range of up to 20 metres (dependent on location), it enables operation of the roof from any position.



Sun Sensor

Ideal for light control, the sun sensor can be programmed to either open or shut the operable roof at set sunlight levels.



The Auras operable roof systems can be fitted to a wide range of support structures, whether they be aluminium, steel, timber or even part of the house.

The most common type of structure is the proprietary Auras aluminium support frame. With a range of engineered beams and posts, selection can be made to suit virtually any location. Being aluminium, these structures can be powdercoated or anodized to match the roof system, and the simple connection details enable rapid erection on site.

Steel structures are often used where the beam spans are too great for aluminium. Engineered on a project-by-project basis, steel is both cost effective and robust.

Existing timber structures are commonly utilized when retrofitting Auras operable roof systems to existing houses. The structure must be analyzed to ensure it is strong enough, but is often a way of saving cost on a renovation.

Structure





Extras

Aurae can provide a wide range of additional extras to compliment your outdoor area and operable roof.

Our aluminium louvred shutters are popular, as they can be finished to match the roof system and provide excellent shelter and privacy. The shutter frames can be fixed, sliding or bi-folding dependent on your preference.

Infrared heaters enable use of your outdoor space even on cold days. Easily attached to the Aurae support structure, they are becoming increasingly popular in colder climates.

Roll-down PVC blinds are a tidy and cost-effective method of providing shelter without obstructing view. Available in a range of styles, these blinds can be motorized or manually operated.



The following technical points should be taken into consideration when designing or specifying an Aurae operable roof system:

Span capability of the louvre blades

The Solaris system is able to span greater distances than the Aurora system, however this span distance is dependent on the wind zone of the location. Refer to the product technical data sheets for these loadings and associated spans.

Length of the operable roof system

There is no limit to the number of louvre blades that can be fitted to the Aurae operable roof systems, and consequently they can be made as long as required. However, the amount of fall required on the gutter over the length of the roof needs to be considered when allowing for the depth of the beams.

Optimum opening size

The louvre blades are at 175mm centres, so the optimum opening size is 175mm x number of blades + 65mm clearance. This size is not critical, as the system can be adjusted to suit any size opening, but will provide the best weather protection.

Flashings

These are normally required when fitting to a timber support structure. For steel or aluminium support structures, a good quality and properly applied sealant is acceptable in most instances.

Downpipes

The gutters are typically set to fall into one corner, so the most common method of draining is to take a downpipe directly out the base of this corner. However, there are scenarios where a visible downpipe is not acceptable, and in these instances the downpipe can be taken out the back of the gutter and concealed within the structure.

Gutter Joints

The Aurae operable roof system incorporates a welded gutter corner unit to minimize the risk of leaking. On long roofs over 6 metres in length, the gutters are required to be joined with an inline jointer that sleeves under the bottom face.

Electrical work

As the switching used on the Aurae operable roof systems is completely wireless, the only wiring that is required is a 240V AC power supply to the motor.

Surface finishing

A wide range of powder coat and anodized finishes is available. Careful consideration for the finish type should be made where the operable roof is in a coastal environment, as salt spray can damage standard powder coats and anodizing. Aurae recommends selecting either a powder coat colour from the Duratec range or using anodizing of a minimum of 20 microns thickness.

Cleaning

Aurae recommends cleaning your operable roof system at least every 3 months, using clean water and a brush to remove any hard deposits. Standard household detergent can be used if required, however solvent based cleaners must be avoided as they can damage the powdercoat finish.

Warranty and Servicing

A copy of the warranty for the Aurae operable roof system is available upon request. In the unlikely event of a fault occurring with the product, there are service agents in every part of the country that are under contract to Aurae and can respond quickly to any issue.

Engineering

All the Aurae operable roof systems have been fully engineered to ASNZ standards, and producer statements are available upon request.

Technical





For more information or for help with your next project

call Auraa on **09 972 2897**
or visit **www.aurae.co.nz**