

SPECIFICATIONS



Vollay V7000 Opening Roof System – ABS – 200mm Aerofoil Blade System

This system is based on a 200mm Aerofoil shaped louvre, which has a male leading edge on one side of the blade and a female channel on the opposite edge. The female channel takes a silicon-impregnated pile. This allows the blades to interlock and provide a water resistant join while ensuring no metal-to-metal contact.

Incorporated into the blades are two stiffening channels, which allow the system to be installed in cyclone rated areas and span up to 4500mm. This blade rotates through 170 degrees inside an outer extruded aluminium frame that is both the structural frame and also acts as the motor housing, concealing the motor and drives hardware that is 80mm wide and 150mm deep.

These sections are assembled using 6mm stainless steel bolts in the corners that are concealed within the frame and finished off with a 3mm thick aluminium end plate.

Under the motor housing, the extruded aluminium gutter system is installed, which locks into the motor housing with a concealed lip and is held in place with two countersunk 5mm bolts in each corner with an aluminium corner stake to ensure the rigid corner. Once joined, the corner is sealed with a waterproof coating.

The captured water is discharged thru a HDPP insert inside the gutter, which both transfers the load of the roof into the 75 x 75mm extruded aluminium support post while allowing the water to pass internal down the post eliminating the need for down pipes.

The motor housing encloses the drive system that consists of the motor connected to our extruded aluminium drive, which connects to the required amount of 22:1 reduction drive gearboxes.

The motor housing mullion has an extruded cover plate, which is located on the 80mm face to allow access to the compo entry for maintenance. The gearbox has an extruded insert that has a square drive with twin-set screws into which inserts the drive blade that is connected with a 10mm square drive shaft.

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Inside the frame is mounted a 20 newton metre dual-drive electrical motor, manufactured in Germany with its integrated triple reduction planetary gearbox, rated at IP66 when located in the housing.

The motor also includes both built-in adjustable limit switches and a thermal overload. The motor housing includes provision for cabling and room to house a range of remote controls and sensor receivers.

Aluminium shall be extruded to Australian Standards AS 1866:1997.

Aluminum sections shall be powder coated to AS 3715-2002.

Aluminum sections shall be anodized to AS 1231-2000 and complies with corrosion resistance as per AS1580.457.1.

All fixings, bolts, screws and Pivots are manufactured from Stainless Steel.

All plastic parts are manufactured from UV resistant HDPP (High Density Polypropylene) or similar.

Please contact our office for a complete range of CAD drawings or any further assistance.

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