

# SPECIFICATIONS



## Vollay V2000 FGLS-M – Facade Glass Louvre System-Motorised

The system is to base on a central motor housing mullion from extruded aluminium, which is 80mm wide and 150mm or 200mm deep, subject to wind loading and spans. This connects on either side to another stile, which interlocks into the next bank to provide a matching stile. The stiles can ne further reinforced with a range of steel inserts.

The motor housing encloses the drive system that consists of the motor and extruded aluminium drive, which connects to the threaded drive shaft. This then connects the required number of gearboxes. The motor housing mullion has an extruded cover plate, which is located internally on the 80mm face to allow access to the compo entry for maintenance.

The vertical member design incorporates the option to insert an aluminium extrusion into the 150mm or 200mm wide face as its front edge to allow for a glazing channel which holds the suitable toughened fixed glass to provide the option to allow either a balustrade or glass infill where louvres are not required.

Inside the frame is mounted a 20, 40 or 60 Newton Meter electrical motor manufactured in Germany with its integrated reduction planetary gearbox which is rated at IP66 when inside the housing. The motor also includes both inbuilt adjustable limit switches and a thermal overload.

The motors and tilting system can be accessed from inside the building by removal of a full-length extruded aluminium cover plate. The motor housing includes provision for cabling and enough space to house a range of remote controls and sensor receivers.

The concealed motor is connected via the drive shaft to the drive gearbox housed inside the vertical stile. The gearbox is housed within the extruded aluminium housing into which is installed vertically stainless steel square cut threaded drive shaft, supported with stainless steel thrust bearings.

This drives a bronze drive block, which is connected internally using a dual linkage system to an internal cam. The cam is then attached to an extruded aluminium pivot shaft. The internal shaft rotates on twin stainless steel bearings, which are pressed into the housing in the gearbox passing through the motor housing and outer frame to then attached using two 8mm stainless steel bolts to machined aluminium fin holders.

## LOUVRES SOLUTIONS FOR ALL SEASONS



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The fin holders are available in a range of sizes to suit blade width, which allow the use of a full range of glass thickness. The blades close into the face of the vertical member onto a full-length gasket to provide a water resistant seal.

The glass louvres are retained at either end into the machined aluminium blade holders with a patch fitting, which fixes through holes in the glass.

The blades can include a full-length seal to the leading edge to further improve its water resistance.

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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