



## Louvre Roof



# SPECIFICATIONS



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# Louvre Roof - Overview



## Measuring Guide & General System Information

### Size Limits:

- Minimum overall width: 1800mm
- Maximum overall width: 4100mm
- Minimum overall projection 2000mm
- Maximum overall projection without additional centre post on the projection beams: 5200mm
- Maximum overall projection with additional centre posts on the projection beams: 7000mm

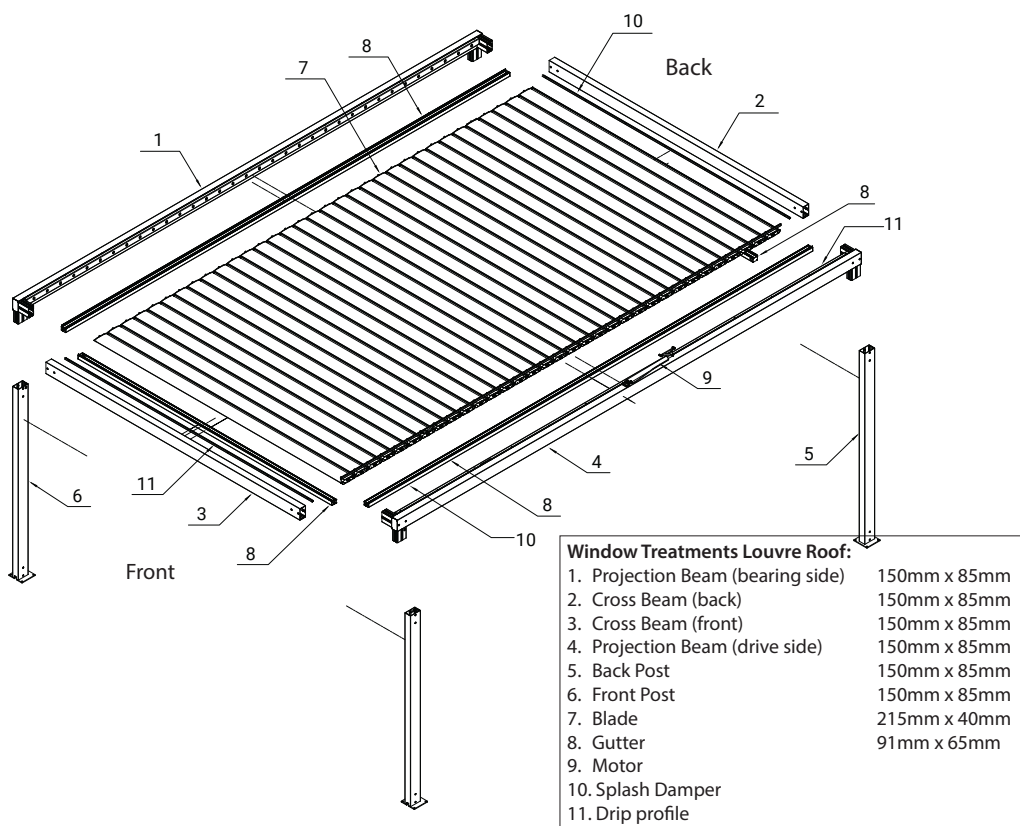
### Note:

1. For louvre roofs with projection and cross beams, the Projection measurement can only be in multiples of 200mm as this is the spacing between the louvres. Examples: Projection of 2200mm, 4800mm & 5400mm are acceptable however 2100mm, 4900mm & 6300mm are not.

2. For louvre roofs being installed into an existing Pergola structure without posts, the projection measurement can only be in multiples of 200mm. For example if the existing projection opening measures 3100mm, the opening will need to be reduced to 3000mm. In this example the louvre roof will have 15 louvres.

- Maximum overall height:  
With Posts: 2700mm,  
Without Posts: no maximum
- Louvres in the open position project 75mm beyond the top of the projection and cross beams so 75mm clear space must be provided to allow for this rotation.
- Louvres in the open position are flush with the underside of the projection and cross beams.
- On the motor side of the projection beam, 100mm is required over the top of the projection beam to allow clearance for the motor. Motor is positioned centre of projection beam.
- Maximum size possible without requiring a building consent when attached to a building is 20m<sup>2</sup> providing the louvre roof is at ground level.
- Maximum size possible without requiring a building consent when the Louvre Roof is freestanding (not attached a building), is 30m<sup>2</sup> providing the louvre roof is at ground level.
- Louvre Roofs irrespective of size installed on floor levels 1 and above, require a building consent.
- Planning permission (PIM) may be required regardless of the louvre roof size.
- The customer is responsible to apply and obtain a building consent and/or PIM if required.
- Window Treatments NZ Ltd do not apply for building consents when required
- Irrespective of whether a building consent is required, all installations and fixings must meet NZ building code standards.
- LED Strip lighting (24V) optional. LED strips are installed just above the louvre gutter on both projection beams

Window Treatments Louvre Roof:	
Available Colours	: Gunmetal, Perla & Special
Electric Drive	: Yes
Manual Drive	: No
Maximum Projection	: 7000mm
Maximum Width	: 4100mm
Rainproof system	: Yes
Roof Drainage	: Yes
Modular System	: Yes

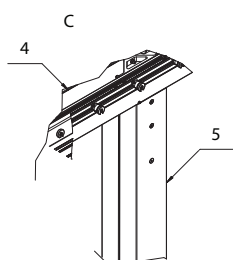
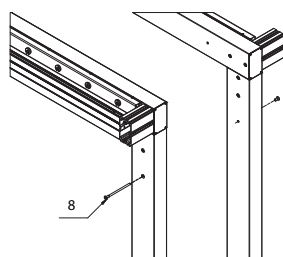
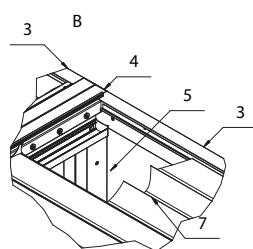
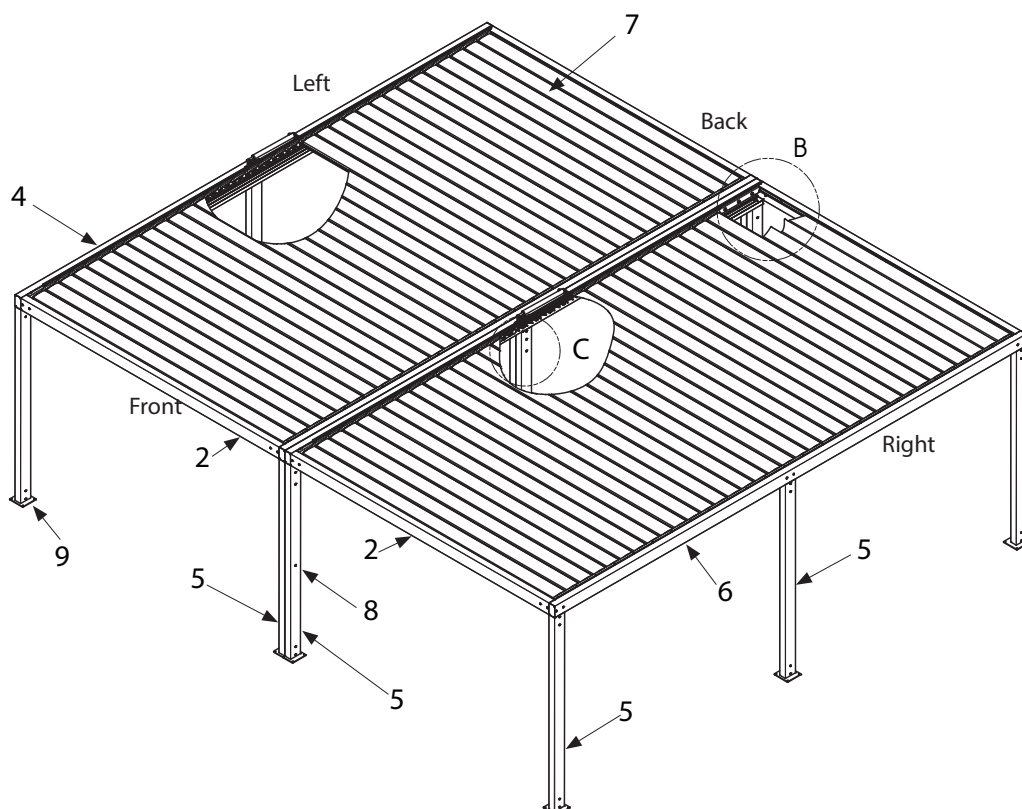
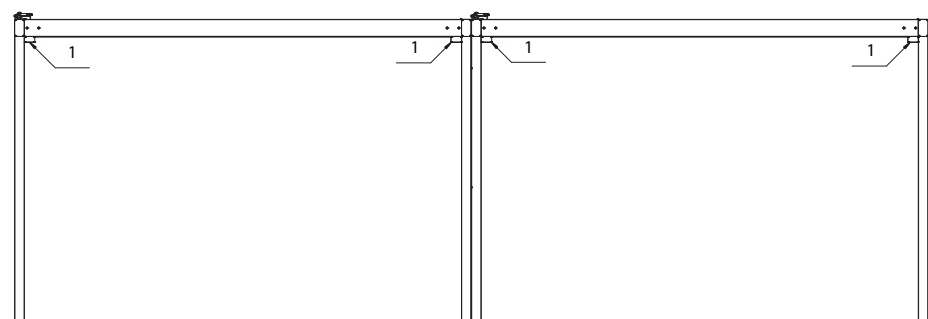


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# Louvre Roof- Multi-modular

## Multi-modular Louvre Roofs

- For areas requiring coverage wider than the 4100mm maximum overall width or longer than the 7000mm maximum length (projection), two or more modules can be connected together. Each module is self supporting, constructed with its own projection beams and posts.



### Window Treatments Louvre Roof:

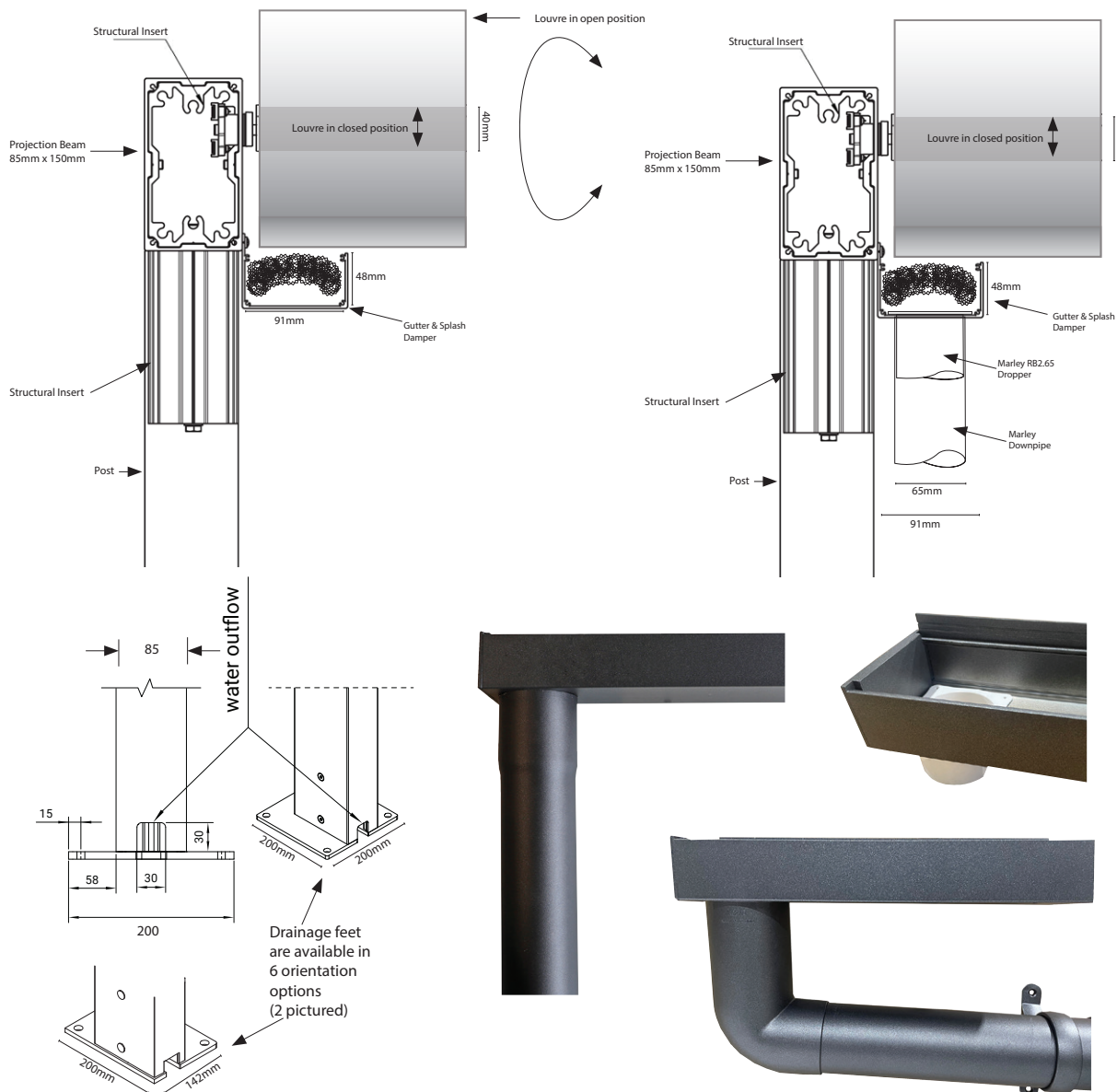
1. Gutter	91mm x 65mm
2. Cross Beam (front)	150mm x 85mm
3. Cross Beam (back)	150mm x 85mm
4. Projection Beam (left)	150mm x 85mm
5. Post	150mm x 85mm
6. Projection Beam (right)	150mm x 85mm
7. Louvre	215mm x 40mm
8. Post connecting bolt	
9. Footing Plate	

# Louvre Roof- Gutters & Drainage



## Gutters & Drainage

- The louvre roof and posts must be installed level.
- The gutters are installed level.
- Gutters with Splash Dampers are installed into gutters on both projection beams (one each side).
- Water from the gutters drain through a hole at the back of the gutter into the louvre roof post. The post is hollow which allows the water to drain and dissipate at the base of the post. However in cases where the louvre roof is suspended between an existing structure which may prevent the use of standard louvre roof posts, Window Treatments can install a standard white RB2.65 Marley dropper to the underside of the gutter connected to a Marley downpipe with the water from the downpipe dissipating onto the base of the deck area. If required, the downpipe and associated parts can be painted by Window Treatments to match the colour of the louvre roof gutter. If a connection of the downpipe to the storm water is required, this work is to be carried out by a registered plumber/drainlayer. The cost of this work is not allowed for in the Window Treatments quotation. In addition, the fixing and position of down pipes (if required) may be effected if Securo's are installed into the sides of the louvre Roof so please discuss this with your Window Treatments Sales Consultant prior to placing your order.
- A selection needs to be made at the time of the order, which posts or if Marley down pipes will be used to drain water from the gutters to the ground.
- Small drip profiles are installed on both cross beams of the louvre roof. The small drip profiles are designed to deflect any drips from the last louvre closest to the cross beams.
- Flashings or other special fittings are to be supplied by the customer.
- The louvre roof is weather proof but is not guaranteed to be water tight in adverse or storm conditions. The louvres must be opened when wind exceeds 65km/hr and or when snowing.



ISSUE: LR-03-001

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# Louvre Roof- Installation Types

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## Installation Types

1. **Free standing Louvre Roof** with 4 or 6 posts:  
The louvre roof is not attached to a wall, house or building and is free standing. If the projection exceeds 5200mm, middle posts on the projection beams will be required (total 6 posts).
2. **Existing Pergola structure:** Installing a louvre roof within (face mounting) an existing pergola structure into Steel, Timber or Concrete. In this case unless requested, the louvre roof is supplied only with cross beams and projection beams which are fixed onto the existing structure. This means that no posts are provided as part of the louvre roof order. Installing a louvre roof within an existing pergola structure is possible provided that:
  1. The structure corners are square,
  2. Both ends are the same width,
  3. Both projections are the same length.
  4. Both diagonal measurements are the same.
  5. The existing pergola is structurally sound and capable of supporting the louvre roof.
3. **Installing against an existing house or wall structure:** On this installation type, the louvre roof is supplied with standard aluminium 85mm x 150mm projection and cross beams. Face mounting brackets are provided for fitting the beams onto an existing house or wall structure. Additional costs will apply for any special engineered wall mounting brackets required.

Note for 2. & 3. : When installing a louvre roof into an existing pergola structure or against an existing house or wall without posts, the customer will need to arrange drainage alternatives given that there will be no posts supplied which would normally provide drainage to the ground.



# Louvre Roof- Louvre Direction

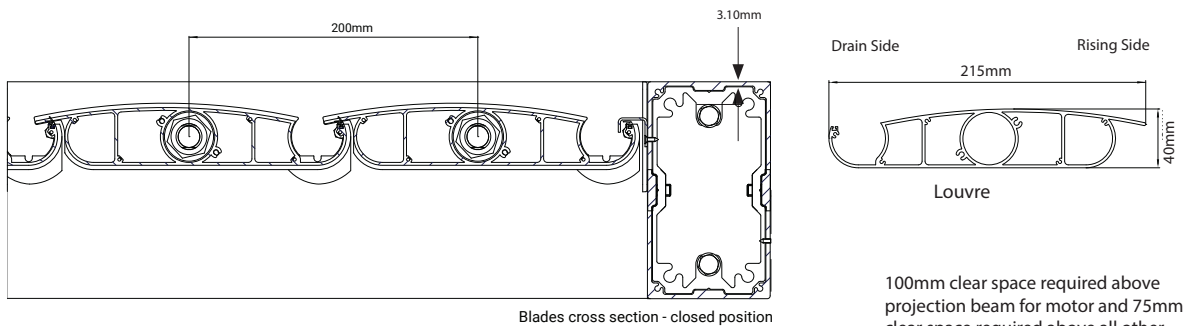
## Choosing the Louvre Direction

Note: For clarity the "Front" of the Louvre Roof as mentioned throughout these Specifications, is when you are facing the Width (Cross) Beam of the planned Louvre roof, with the existing building directly behind it. The same approach is used when specifying the motor or crank side (left or right) of an Awning which is when you are facing the building.

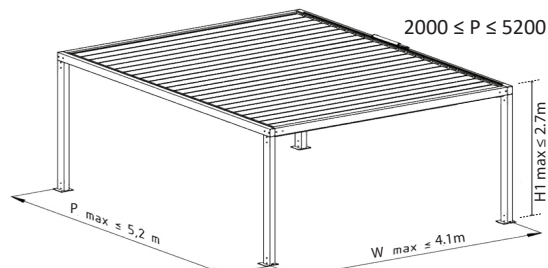
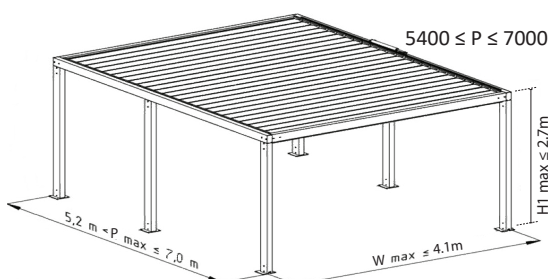
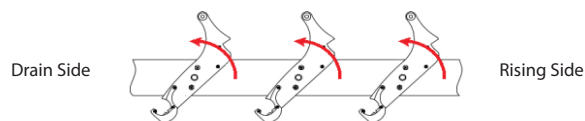
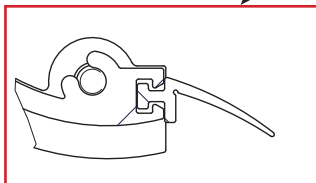
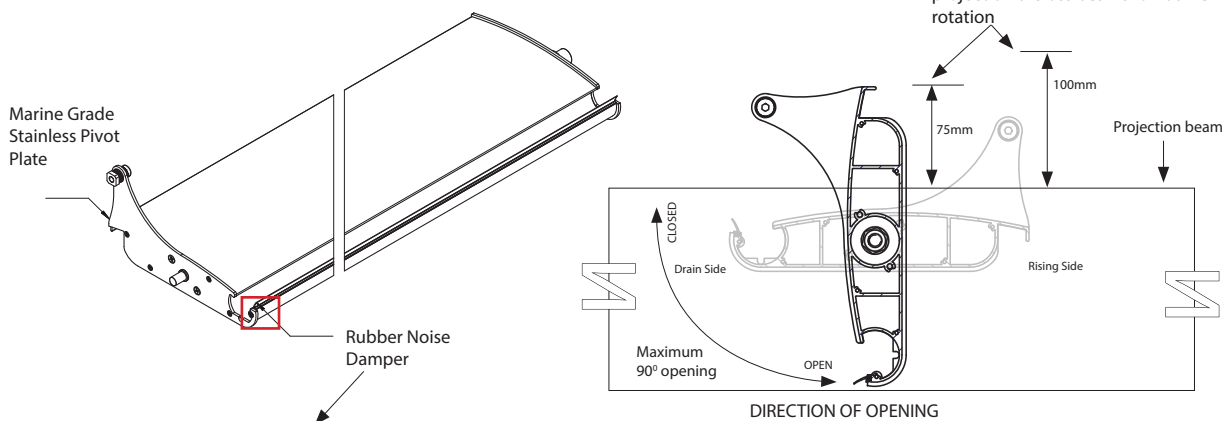
In New Zealand it is generally recommended that louvres lie on an East to West axis irrespective of the rotation direction. This means that the projection beams lie on the North to South axis. Louvre Roofs are primarily designed to provide rain and wind shelter. However, it is important to also consider the shading effect the louvre roof may have over an adjacent building or space and then to maximise or minimise this effect depending on the customers preference.

If sun shading to an adjoining building or space is not desired, we recommend the louvres rotate from the closed position to opening, with the rising side of the louvre (side without the drain), rising to the North, North/West or Westerly direction. This means that the maximum amount of direct sunlight possible will penetrate through the louvres to the ground below.

If sun shading to an adjoining building or space is desired, then the louvres should be facing opposite to the above which will block most direct sunlight.



100mm clear space required above projection beam for motor and 75mm clear space required above all other projection & cross beams for louvre rotation



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# Louvre Roof- Fixing & Footings

## Fixing & Footings

**All fixings and footings must meet NZ building code standards.**

- All foundations and or suitable footings are provided by the customer. Foundations and footings are required to meet the building code and need to be perfectly level.
- Window Treatments NZ Ltd will secure the louvre roof posts to the foundation/footings provided by the customer.
- The footing plates which are fitted onto the bottom end of the posts, are available in 9 orientations including 6 with drainage holes (see image below). A footing plate needs to be selected for each post at the time of the final check measure.
- Face mounting brackets are available for standard installations.
- Additional costs will apply if any special wall mounting brackets or posts need to be engineered to suit a particular application – see pictures D & E

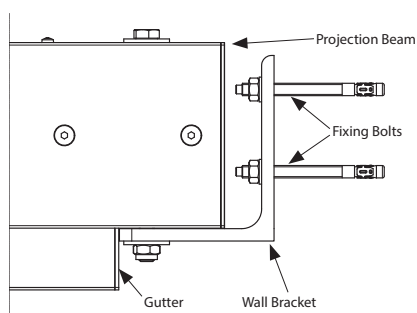
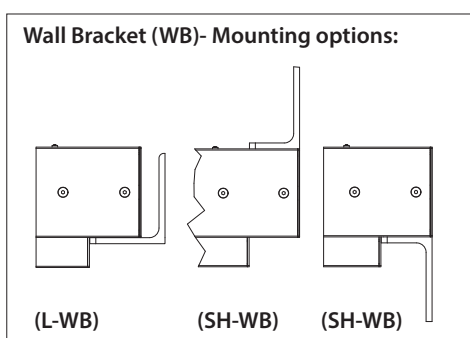


Figure a) Long universal - wall bracket (L-WB)

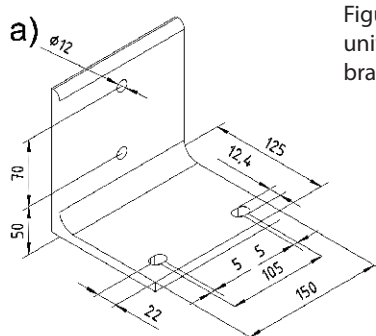
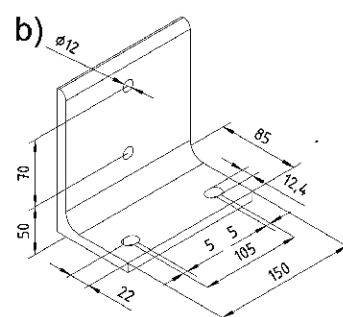
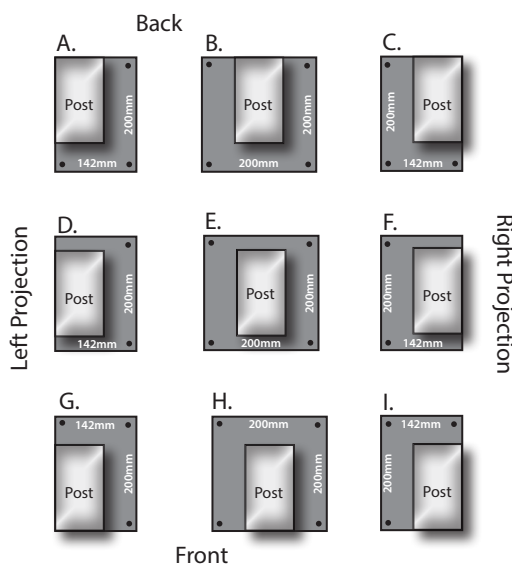


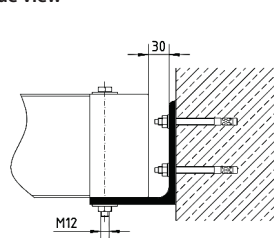
Figure b) Short universal- wall bracket (SH-WB)



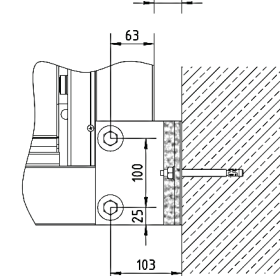
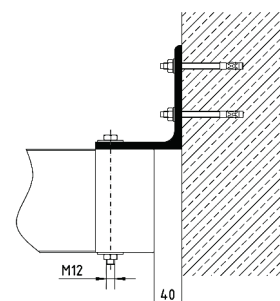
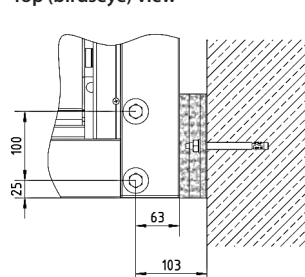
## Footing Plate Options:



Side view



Top (birdseye) view





# Louvre Roof- colour Options & Motorisation



## Colour Options

**Standard Colours:** Gun Metal, Perla

Note: - It is possible to have a mix of colours on a Louvre Roof. Example: posts, cross beams, projection beams and gutters in Perla and the louvres in Gun Metal. There is no surcharge with a mix of standard colours.  
- External durable powder coating system with 60-100 micrometers thickness of coating (Standard PN-EN ISO 2360).

**Special (non standard) Colours:** Available with a surcharge of 20% with an extra 12 working days lead time.

## Motorisation

- All Louvre Roofs are motorised with a retro-styled stainless steel 240v Elero Picolla XL-P (German) motor (Manual control is not available).
- Integrated isolation relays enabling parallel connection of several actuators.
- Weather-resistant 230V linear actuator made of stainless steel.
- Additional isolation relays are not required.
- Reduced installation expenditure and higher security against incorrect use.
- Control of several linear actuators in parallel (without synchronisation).
- Motor can be installed on either projection side of the louvre roof but the selected side must be stated on the order.
- Motor is installed on the top of the projection beam (100mm clear space is required above the projection beam the motor is installed upon).
- Louvres in the open position project 75mm beyond the top of the projection and cross beams therefore 75mm clear space must be provided on all beams and cross bars to allow for this rotation.
- Louvres in the open position are flush with the underside of the projection and cross beams.
- Control options are:
  - Somfy Remote with Receiver - optional upgrade with a Connexoon Automation Hub.
  - Hard wired to a wall switch or Hard wired to a Post mounted switch
- Wind or Rain Sensors. Note: it is not possible to install both a wind sensor and a rain sensor.



Somfy Remote



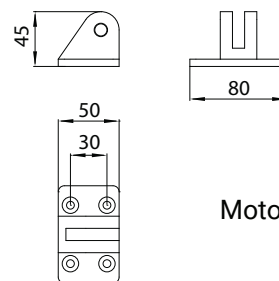
Post mounted switch

## Electrical Connections

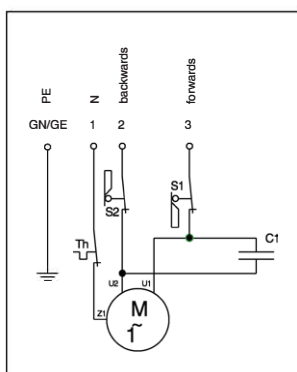
The Louvre Roof is installed by Window Treatments installers with a 240v Elero Piccolo XL-P external motor which is fastened to the middle of the top side, of one of the Projection Beams. The motor has a grey 4m power flex which is to be connected to the power supply by a registered Electrician. Window Treatments can recommend an electrician to complete this work if necessary. Power cables and connections can be installed by the registered Electrician, inside or outside the hollow louvre roof beams and posts, however all such work must conform to the Electrical Code.



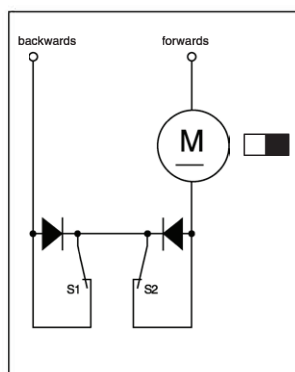
Drive - Piccolo XL-P motor with rod bracket attached



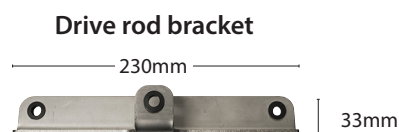
Motor bracket



WS0800/230V 1AC



GS0300/24V DC



Drive rod bracket

- S1 = Limit switch  
piston rod out  
S2 = Limit switch  
piston rod in  
C1 = Capacitor (internal)  
Th = Thermal protection

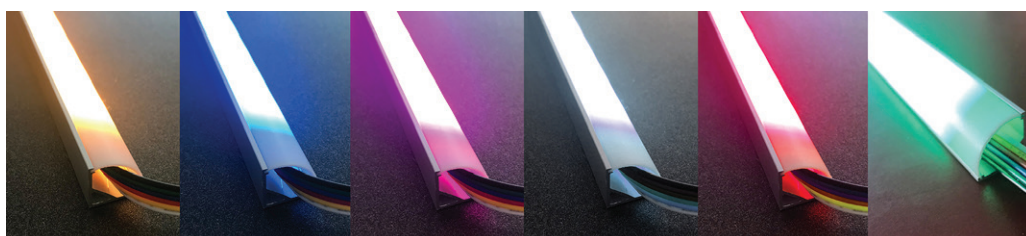
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# Louvre Roof- LED Strip Lighting (optional extra)

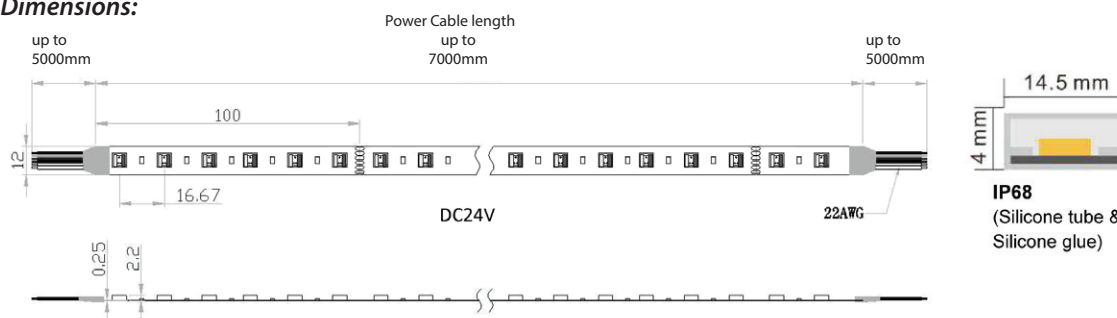
With the addition of our 24V LED lighting strips you can illuminate your outdoor living area allowing the opportunity to entertain guests and family during the hours of darkness. Easily controlled via a hand held remote you can change colour, brightness and mode of the lights allowing you to set the tempo of the evening. LED strips are installed just above the louvre gutter on both projection beams.

## Features: Product Model SW-F5050RGBCTA30-WFO

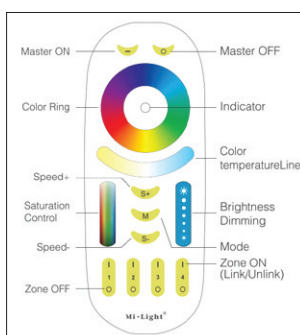
- o Power supply 24V
- o Power consumption 14.4 watt per metre
- o IP Rating IP68
- o Working Environment Temperature -25 to +45°C
- o Various Lengths available up to 7m
- o Max connection length off one controller: 14m
- o LED: quantity 60pcs per metre
- o LED strip diffuser



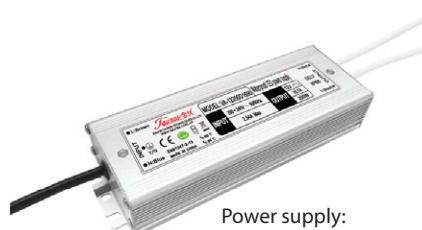
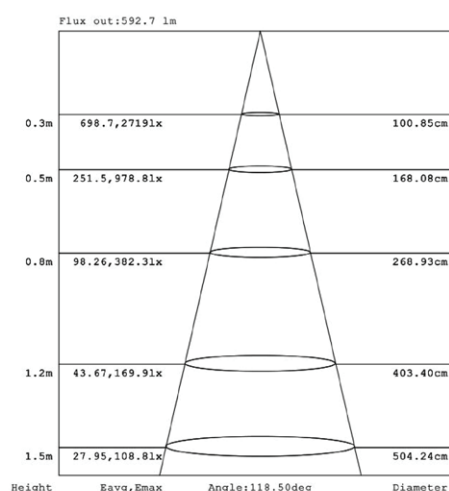
## Dimensions:



Rainbow Controller with 4 Zone Remote Control 2.4G



## Optical Lux Graph



Power supply:  
Constant Voltage 24VDC 200w IP66

# Louvre Roof- Securo®, Securo® Side Roll, Securo® Pull Down



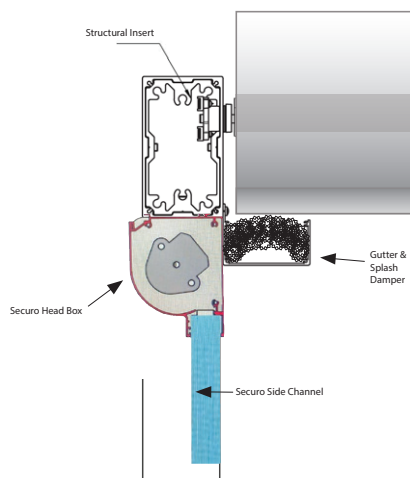
## Securo® 110

Motorised Securo® 110 in both PVC and Screen fabric can be installed on all four sides of the louvre roof.

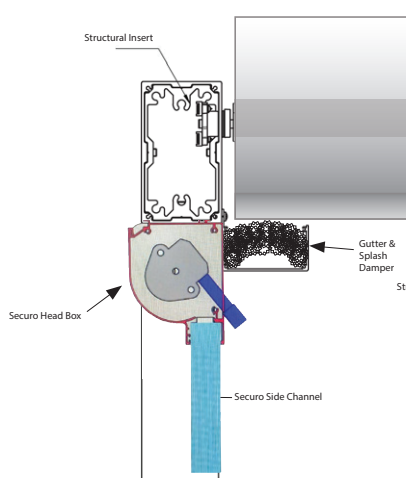
Manual (crank) control Securo® 110 can also be installed on all four sides of the louvre roof.

Note: With both motorised and manual options the Securo® 110 are installed facing outward. With the manual option, the crank handle coupling is positioned through the back of the cassette box so that the user can operate the securo from under the shelter of the louvre roof.

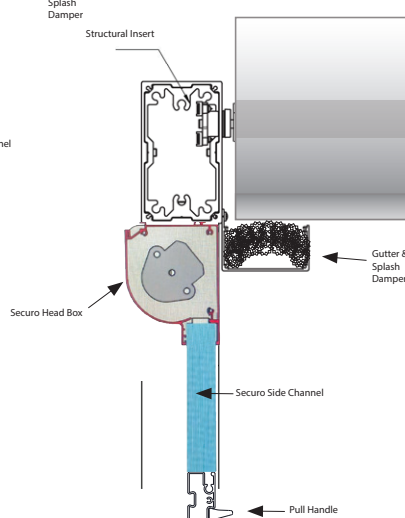
### Motorised Securo® Installation



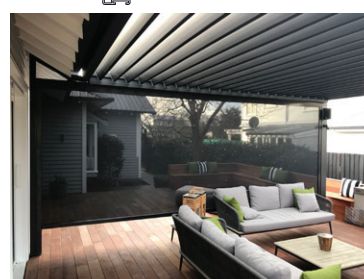
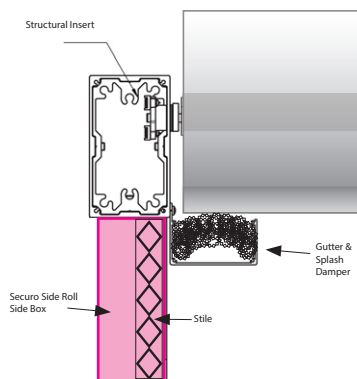
### Manual Securo® Installation



### Securo® Pull Down (Manual ) Installation



### Securo® Side Roll Installation



## Securo® Pull Down

Securo® Pull Down with Phifer FR Patio Insect Screen or Soltis 88 exterior screen is operated easily, by raising and lowering the blind using the handle or pull cord located on the bottom rail. Fabric tension is created with a spring inserted in the top tube within the cassette housing and the blind can be locked into the down position by simply tilting the bottom rail. The maximum size of Securo® Pull Down with Phifer FR Patio Insect Screen is 2400mm wide x 2000mm Drop and for Soltis 88 is 2100mm wide x 2000mm Drop.

## Securo® Side Roll

Securo Side Roll (manual system) with Phiferglass pool & patio mesh can be installed on all four sides of the louvre roof. As the maximum width possible on a Securo Side Roll is 4000mm, if the projection beams are longer than 4000mm, the Securo Side Roll would need to be split into two blinds with each side of the blind sliding away from the middle. Example: For a projection of 5000mm, the opening would have two Securo Side Rolls each 2500mm wide.



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# Louvre Roof- Care, Maintenance, Warranty

SPECIFICATIONS

## ***Inclement Weather Operation***

The louvre roof is weather proof but is not guaranteed to be water tight in adverse or storm conditions. The louvres must be opened when wind exceeds 65km/hr and/or when snowing.

## ***Care & Maintenance***

The effects of ultra violet light, pollution, dirt, grime and salt deposits can all accumulate on the powder coated surface over time. To extend the effective life of powder coating and protect any warranty requirements that may exist, a very simple regular maintenance program should be implemented for the removal of any residues.

As a general rule, cleaning should take place every six months. However, in areas where pollutants are more prevalent, especially in coastal or industrial regions, a cleaning program should be carried out on a more frequent basis (i.e. every three months).

To clean your powder coated surface:

1. Carefully remove any loose deposits with a wet sponge
2. Use a soft brush (non-abrasive) or cloth, and a mild household detergent solution to remove dust, salt and other deposits.
3. Remove Splash Damper sections from gutters, shake off debris, rinse off and reinstall.
4. Rinse off with fresh water

Detergents that recommend the use of gloves when handling should be avoided as this is a good indication that the detergent is harsh and therefore, unsuitable for cleaning your powder coating.

Although some strong solvents are recommended for removing sealants or other building residues, these may be harmful to the extended life of the powder coated surface and should be avoided as the damage may not be visibly immediately and may take up to twelve months to appear. Methylated Spirits, Turpentine or White Spirits may be used safely to remove paint splashes, sealants, or other residue as necessary.

It is important to regularly clean out the gutters. In addition, as the pole/posts carry the water from the gutters to the ground, the base of the pole/posts need to be cleared of debris on a regular basis. We recommend this work is done every month during the Autumn season and every 3-4 months throughout the rest of the year.

## ***Warranty***

Our louvre roof carries our standard three-year warranty\*. This warranty covers the cost of repair or to make good of any defects in materials or workmanship.

\*Refer to our Guarantee & Product Care Guide for full details

Note: This warranty will not apply if the louvre roof has not been regularly cleaned and maintained or operated in a way that it was not intended. This warranty will also not apply if the louvres are left in a closed position in winds exceeding 65km/hr or when snowing.