Lumex™
OPENING ROOF

PRODUCT MANUAL

# OPENING ROOFS
# ProductManual

## *10 YEAR LIMITED WARRANTY

**10 Years Warranty**
Powdercoating finish
& colour fastness.

**5 Year Warranty**
Motor, Transformer and Receiver.

**2 Year Warranty**
Free from defects in
material or workmanship.

More information please contact
9624 0700 or visit www.cwsystems.com.au

CW systems™ PTY LTD

Lumex Opening Roof

# Table of Contents











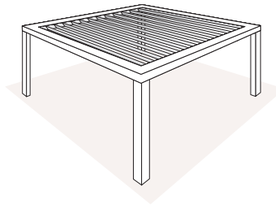
Lumex Opening Roof

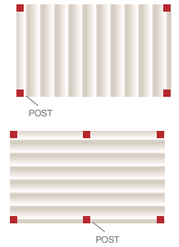
# General Specification

## Design Options - Roof Configurations

Free standing

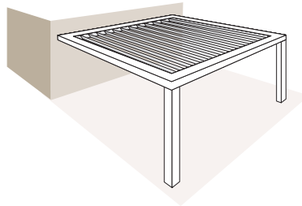
4 x post

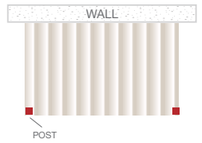





1 x Wall

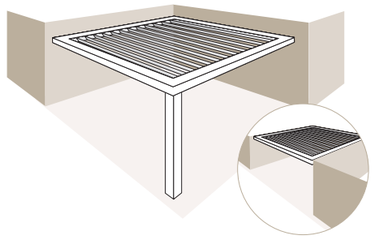
2 x Post

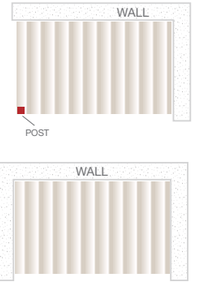





2 / 3 x Wall

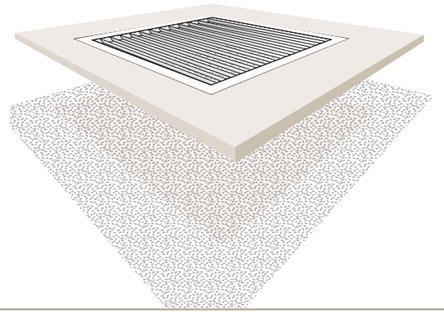
1 x Post






4 Wall

0 x Post






*Limited warranty, refer to the terms and conditions in the product manual

## Specification

**Max Blade Span - 4500mm**
( Refer to the Engineer Span Tables for exact wind class span.)

**Max Beam Span between Post - 6000mm**
( Refer to the Engineer Span Tables for exact wind class span.)

**Max Area per Motor - 24m²**

**System Weight per SQM – 25kgs.**

## Colours

**Standard Colours**

- Gloss White
- Monument Satin

**Custom Colours**

DURALLOY™ POWDERCOAT RANGE™

DURATEC®

**Please note that these colours are Dulux Powder coat colour matches.
There may be a slight colour variation from the Dulux colour swatch.
Please refer to the colour swatches supplied by CW Systems.**



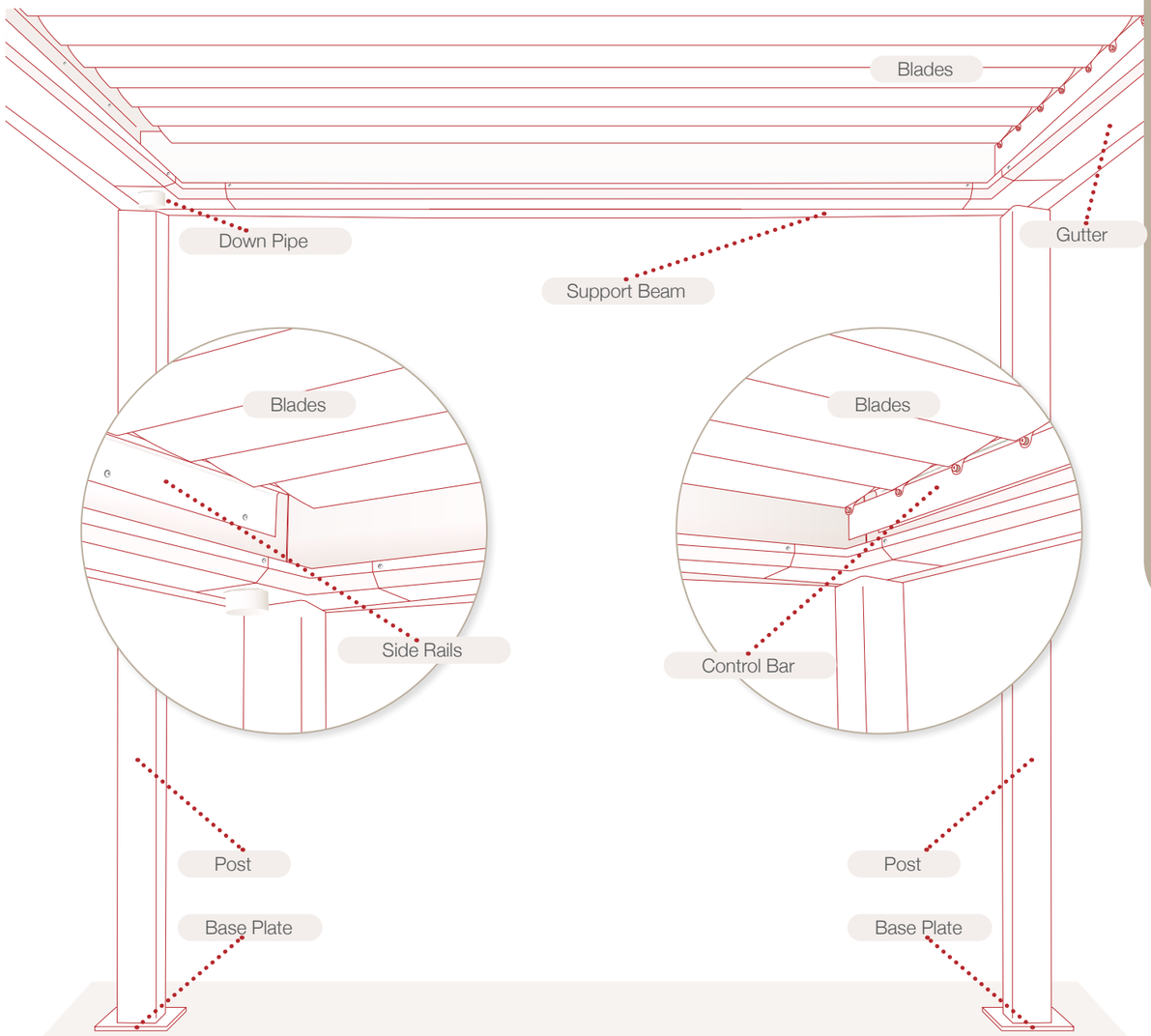








## Components

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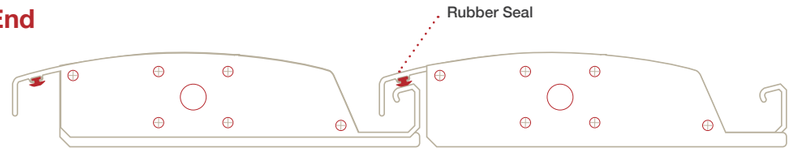
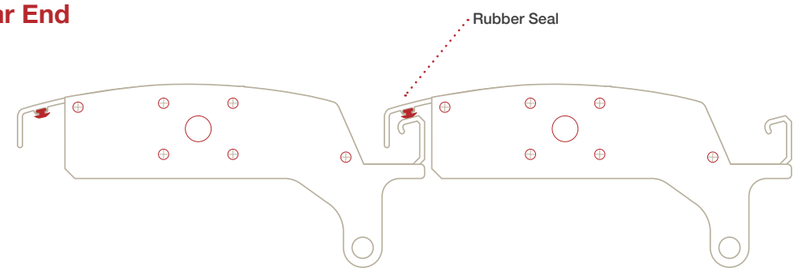
# Components

## Blade

**Standard End**

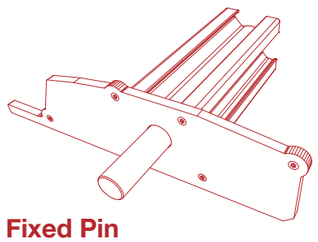



**Control Bar End**

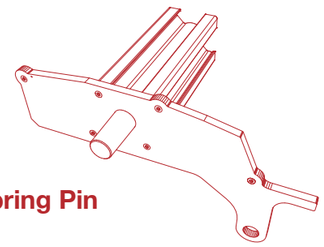




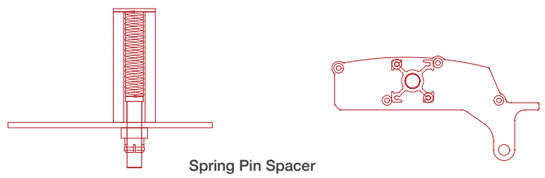

## Louvre Pins ( this unit is already assembled )



**Fixed Pin**

**Spring Pin**



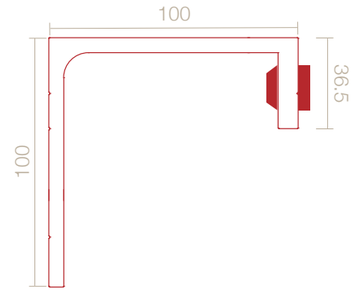


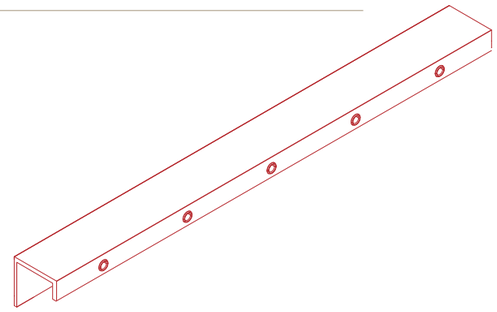




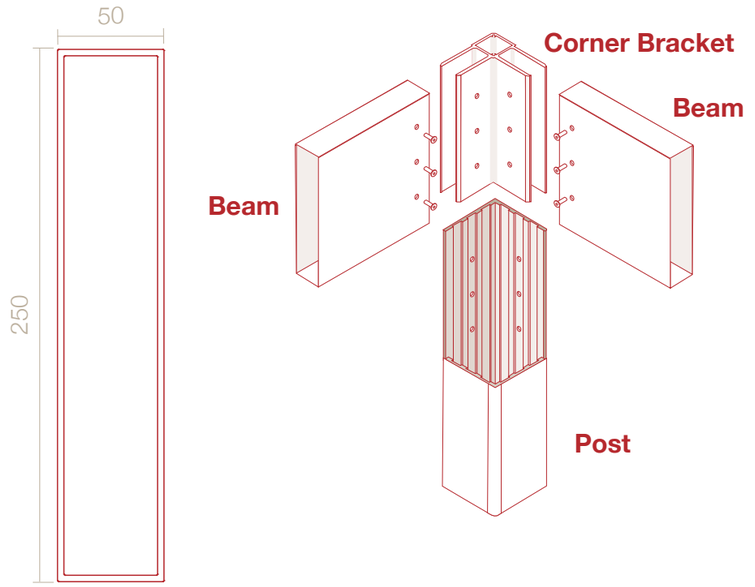



## Side Rail

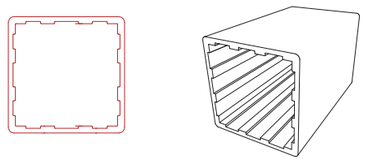


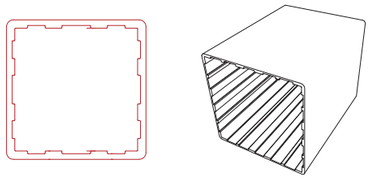
## Support Beam and Bracket




## Post



120x120mm Post
Thickness 8mm
**MAX LENGTH 3800**

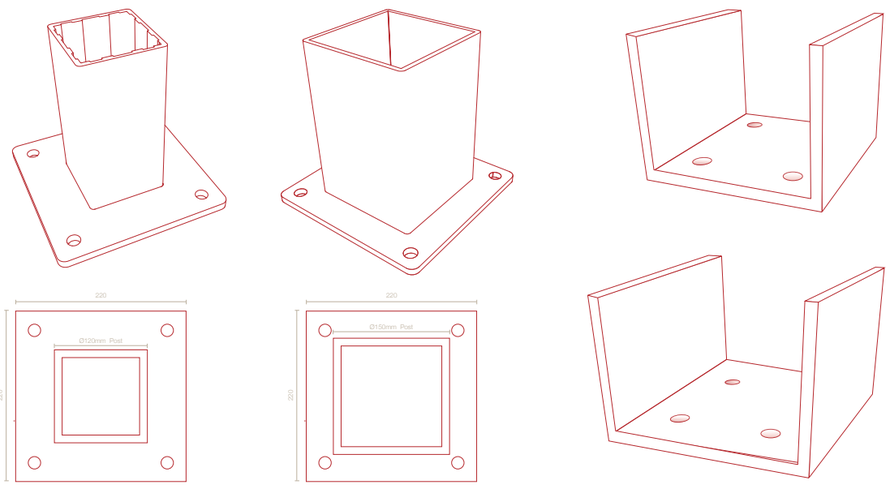


150x150mm Post
Thickness 4mm
**MAX LENGTH 5400**

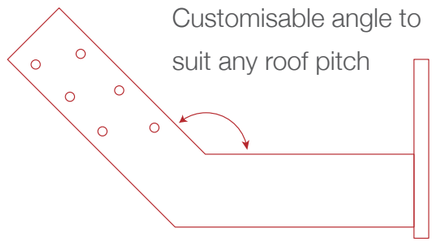
*Limited warranty, refer to the terms and conditions in the product manual

# Components

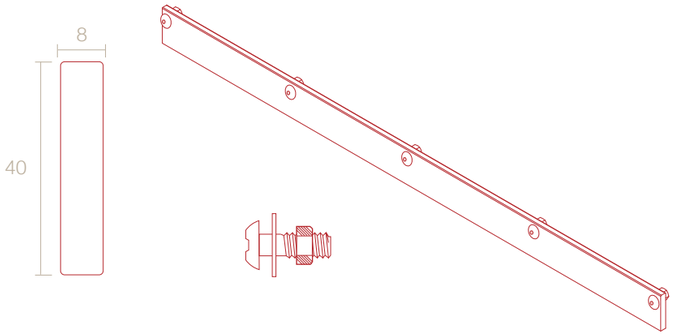
## Base Plate options



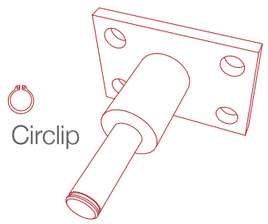

## Rafter Bracket




## Control Bar




## Control Bar Motor Mount



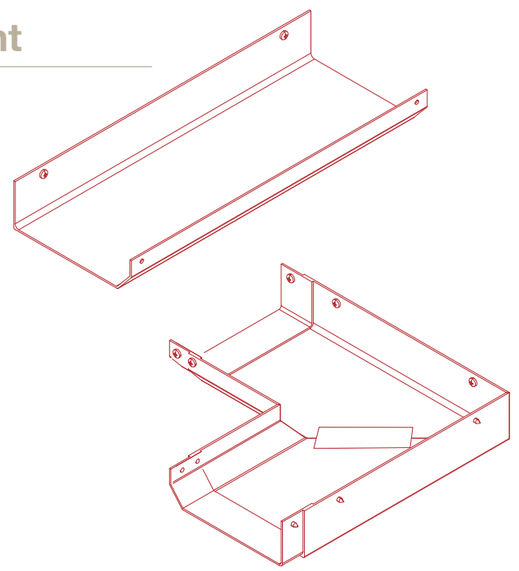


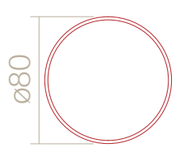






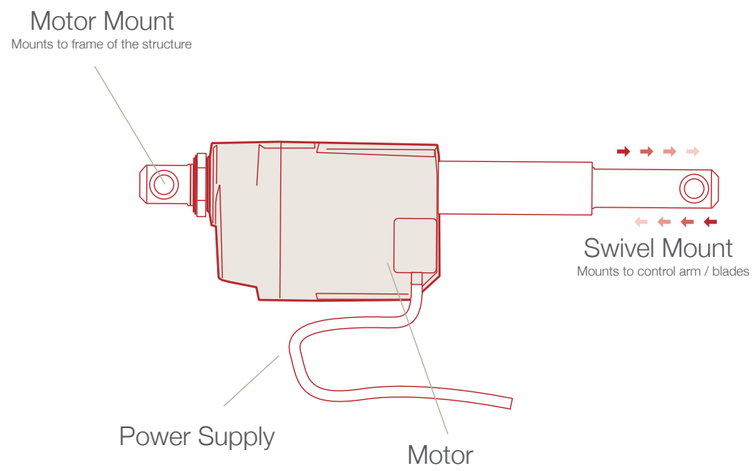

## Gutter - Corner & Straight




Down Pipe Option

## Motor

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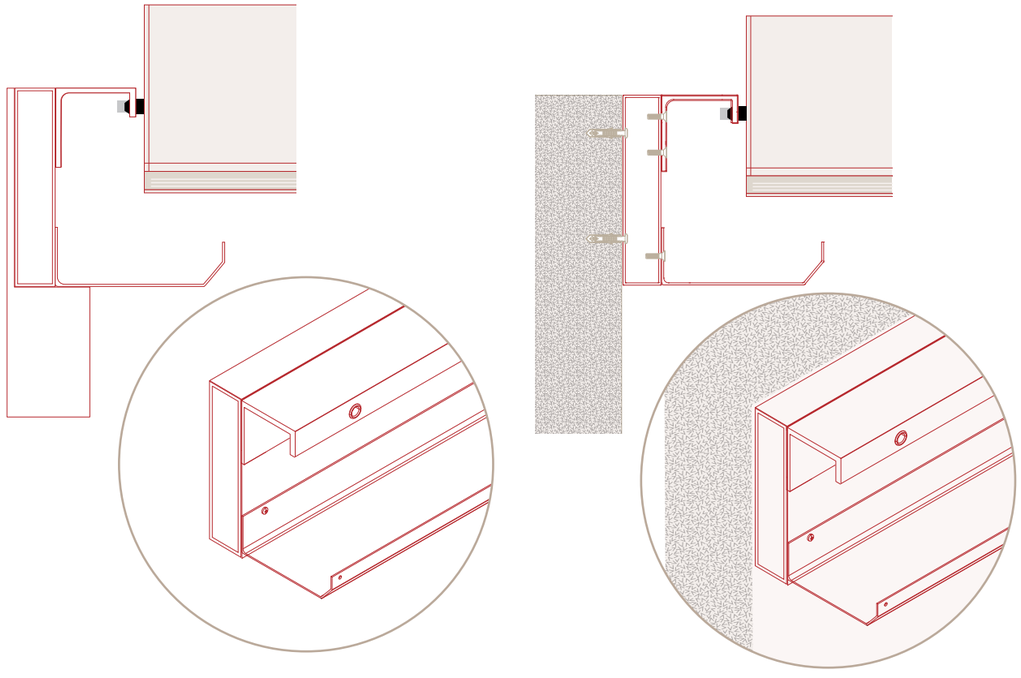
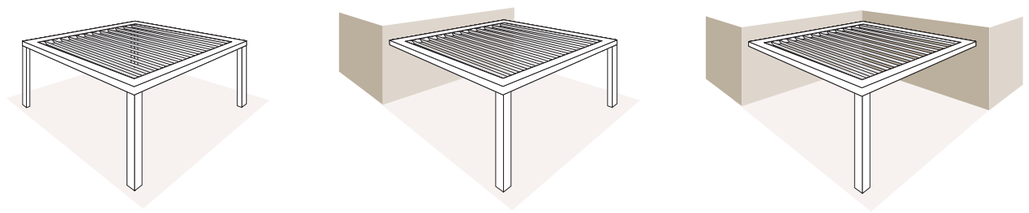
## Design Options - With Support Beams



**Used for - Free Standing, and 1 & 2 wall mounted configurations**

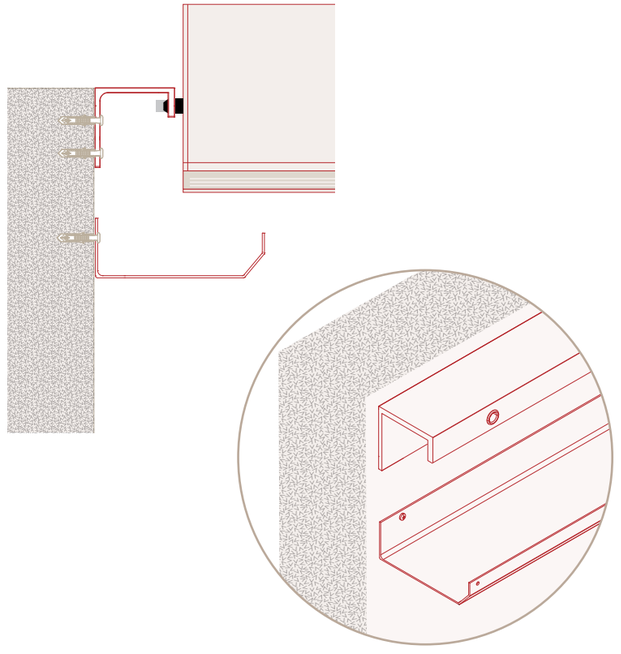




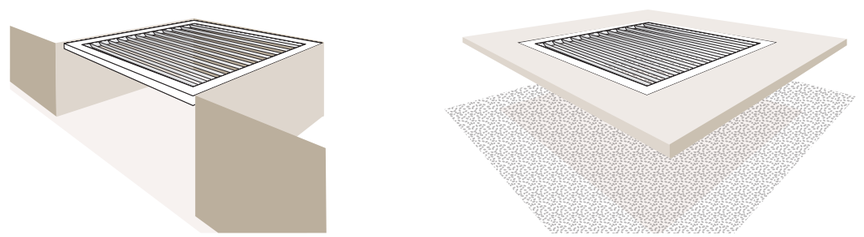




## Design Options - Without Support Beams



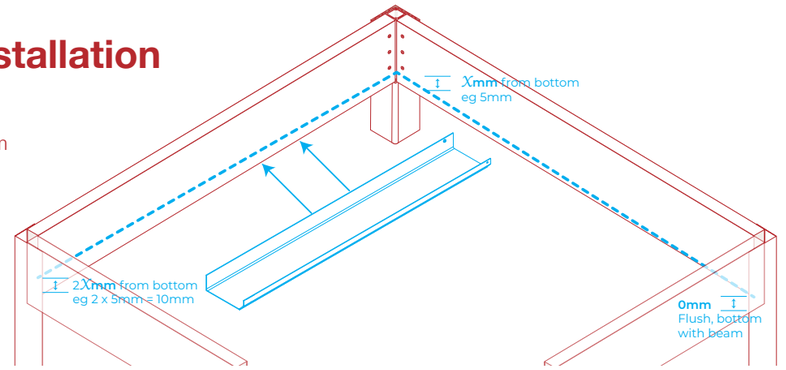
**Used for direct mount installations for - 3 & 4 wall configurations**



## Gutter Fall Installation

Gutter fall is worked across
2 x Sides as seen in diagram

Min. fall 10mm per metre
Do not exceed 35mm





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Lumex Opening Roof

# Engineer Span Requirements

**Non - Cyclonic Regions**
**REGION A - Normal**
**REGION B - Intermediate 100kms**

## Load Parameters For Ultimate Limit State (non-cyclonic regions only)

| | wind class | Indoor | N1 | N2 | N3 | N4 | N5 | N6 |
|---|---|---|---|---|---|---|---|---|
| Wind Speed | (m/s) | 0 | 34 | 40 | 50 | 61 | 74 | 86 |
| | (km/h) | 0 | 122.4 | 144 | 180 | 219.6 | 266.4 | 309.6 |
| Wind load - unblocked | Uplift (kPa) | 0 | -0.28 | -0.38 | -0.60 | -0.89 | -1.31 | -1.78 |
| | Down (kPa) | 0 | 0.28 | 0.38 | 0.60 | 0.89 | 1.31 | 1.78 |

## Max Span Of Louvre Or 250x50 Beam

| section image | section type | Indoor | N1 | N2 | N3 | N4 | N5 | N6 |
|---|---|---|---|---|---|---|---|---|
| | 45x220 blade | 6000 | 5800 | 5200 | 4500 | 3900 | 3500 | 3100 |
| | 250x50x3 RHS | 6000 | 6000 | 6000 | 5600 | 4500 | 3800 | 3300 |

FOR MAXIMUM WATER TIGHTNESS CW SYSTEMS DOES NOT RECOMMEND OR WARRANT BLADE SPANS OVER 4500mm

| Louvre Width (mm) | | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 4500 | Max Post Height (mm) |
|---|---|---|---|---|---|---|---|---|---|
| **Wind Class** | **Beam Size** | **Beam Span (mm)** | | | | | | | |
| N1 | 250x50x3 RHS | 6000 | 6000 | 6000 | 6000 | 6000 | 5600 | 5000 | 5000 |
| | 2*250x50x3 RHS | 6500 | 6500 | 6500 | 6500 | 6500 | 6500 | 6500 | |
| N2 | 250x50x3 RHS | 6000 | 6000 | 6000 | 6000 | 6000 | 5200 | 4600 | 4500 |
| | 2*250x50x3 RHS | 6500 | 6500 | 6500 | 6500 | 6500 | 6500 | 6400 | |
| N3 | 250x50x3 RHS | 6000 | 6000 | 6000 | 5500 | 5000 | 4500 | 4000 | 4000 |
| | 2*250x50x3 RHS | 6500 | 6500 | 6500 | 6500 | 6500 | 6000 | 5500 | |
| N4 | 250x50x3 RHS | 6000 | 6000 | 5300 | 4800 | 4400 | 3800 | 3500 | 3500 |
| | 2*250x50x3 RHS | 6500 | 6500 | 6500 | 6500 | 6000 | 5200 | 4800 | |
| N5 | 250x50x3 RHS | 6000 | 5200 | 4500 | 4000 | 3800 | 3300 | 2900 | 3000 |
| | 2*250x50x3 RHS | 6500 | 6500 | 6300 | 5600 | 5200 | 4500 | 4000 | |
| N6 | 250x50x3 RHS | 5500 | 4500 | 4000 | 3500 | 3200 | 2500 | N/A | 2700 |
| | 2*250x50x3 RHS | 6500 | 6300 | 5600 | 5000 | 4500 | 4000 | 3600 | |







**Cyclonic Regions**
**REGION C - Tropical Cyclones 50kms**
**REGION D - Severe Tropical Cyclones**

## Load Parameters For Ultimate Limit State (cyclonic regions only)

| | wind class | Indoor | C1 | C2 | C3 | C4 |
|---|---|---|---|---|---|---|
| Wind Speed | (m/s) | 0 | 50 | 61 | 74 | 86 |
| | (km/h) | 0 | 180 | 219.6 | 266.4 | 309.6 |
| Wind load | Uplift (kPa) | 0 | -1.5 | -2.23 | -3.29 | -4.44 |
| | Down (kPa) | 0 | 1.5 | 2.23 | 3.29 | 4.44 |

## Max Span Of Louvre Or 250x50 Beam

| | section type | Indoor | C1 | C2 | C3 | C4 |
|---|---|---|---|---|---|---|
| | 45x220 blade | 6000 | 4000 | 4000 | 3400 | 3100 |
| | 250x50x3 RHS | 6000 | 3700 | 3300 | 3100 | 2600 |

FOR MAXIMUM WATER TIGHTNESS CW SYSTEMS DOES NOT RECOMMEND OR WARRANT BLADE SPANS OVER 4500mm

| Louvre Width (mm) | | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 |
|---|---|---|---|---|---|---|---|---|
| **Wind Class** | **Beam Size** | **Beam Span (mm)** | | | | | | |
| C1 | 250x50x3 RHS | 5900 | 4800 | 4200 | 3700 | 3400 | 2500 | 2300 |
| C2 | 250x50x3 RHS | 4800 | 3900 | 3400 | 3000 | 2800 | 2100 | 1800 |
| C3 | 250x50x3 RHS | 4000 | 3200 | 2800 | 2500 | 2300 | 1700 | 1500 |
| C4 | 250x50x3 RHS | 3400 | 2800 | 2400 | 2100 | 2000 | 1400 | 1300 |

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Lumex Opening Roof

# Engineer Span Requirements

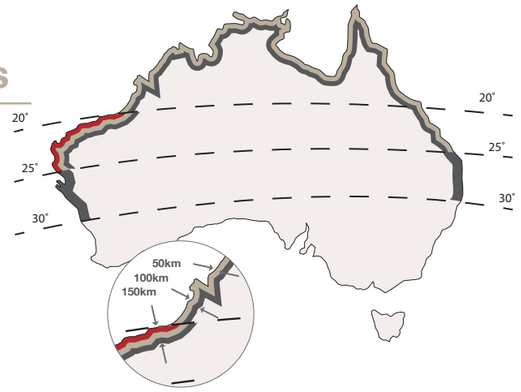
## Determing Wind Speed

## Selection Procedure

To identify a Wind Classification for a proposed domestic site there are four variables you must first identify. They are Region (figure 1), Terrain Category, Shielding Factor and Topographic Classification. The Wind Classification can then determined using table 2.

If the permissible gust wind speed is required, refer to table 1 following assessment of wind classification.

* This is an approximate method for estimating wind speeds for residential structures only. For full analysis refer to Australian Standard AS/NZS1170.2:2011.




Regions are marked with the letters A, B, C and D. Coastal region boundaries are smooth lines set in from a smoothed coastline by 50, 100, 150 and 200km. Islands within 50km of the coast are designated in the same region as the adjacent coast.

NOTE: This map is from Australian Standard AS/NZS1170.2. The wind direction sub-regions of A Region A have been removed for clarity.

- REGION A - Normal
- REGION B - Intermediate 100kms
- REGION C - Tropical Cyclones 50kms
- REGION D - Severe Tropical Cyclones

**Design Gust Wind Speed ( ) for Cyclonic Regions A and B**

| Wind Class | Design Gust Wind Speed ( ) at height (h) m/s | |
|---|---|---|
| | Serviceability limit state ( v ) | Ultimate limit state ( v ) |
| N1 | 26 | 34 |
| N2 | 26 | 40 |
| N3 | 32 | 50 |
| N4 | 39 | 61 |
| N5 | 47 | 74 |
| N6 | 55 | 86 |

**Design Gust Wind Speed ( ) for Cyclonic Regions C and D**

| Wind Class | Design Gust Wind Speed ( ) at height (h) m/s | |
|---|---|---|
| | Serviceability limit state ( v ) | Ultimate limit state ( v ) |
| C1 | 32 | 50 |
| C2 | 39 | 61 |
| C3 | 47 | 74 |
| C4 | 55 | 86 |

| Region | Terrain Category | T0 | | | T1 | | | T2 | | | T3 | | T4 | T5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FS | PS | NS | FS | PS | NS | FS | PS | NS | FS | NS | NS | NS |
| A | 3 | N1 | N1 | N1 | N1 | N2 | N2 | N2 | N2 | N2 | N3 | N3 | N3 | N4 |
| | 2.5 | N1 | N1 | N2 | N1 | N2 | N2 | N2 | N3 | N3 | N3 | N3 | N4 | N4 |
| | 2 | N1 | N2 | N2 | N2 | N2 | N3 | N2 | N3 | N3 | N3 | N3 | N4 | N4 |
| | 1.5 | N2 | N2 | N2 | N2 | N3 | N3 | N3 | N3 | N3 | N3 | N4 | N4 | N5 |
| | 1 | N2 | N3 | N3 | N2 | N3 | N3 | N3 | N3 | N4 | N4 | N4 | N4 | N5 |
| B | 3 | N2 | N2 | N3 | N2 | N3 | N3 | N3 | N3 | N4 | N4 | N4 | N4 | N5 |
| | 2.5 | N2 | N3 | N3 | N3 | N3 | N3 | N3 | N4 | N4 | N4 | N4 | N5 | N5 |
| | 2 | N2 | N3 | N3 | N3 | N4 | N4 | N3 | N4 | N4 | N4 | N5 | N5 | N6 |
| | 1.5 | N3 | N3 | N4 | N3 | N4 | N4 | N4 | N4 | N4 | N5 | N5 | N5 | N6 |
| | 1 | N3 | N4 | N4 | N4 | N4 | N4 | N4 | N5 | N5 | N5 | N5 | N6 | N6 |
| C | 3 | C1 | C1 | C2 | C1 | C2 | C2 | C2 | C2 | C3 | C3 | C3 | C3 | C4 |
| | 2.5 | C1 | C2 | C2 | C2 | C2 | C2 | C2 | C3 | C3 | C3 | C3 | C4 | NA |
| | 2 | C1 | C2 | C2 | C2 | C2 | C3 | C2 | C3 | C3 | C3 | C4 | C4 | NA |
| | 1.5 | C2 | C2 | C3 | C2 | C3 | C3 | C3 | C3 | C4 | C4 | C4 | NA | NA |
| | 1 | C2 | C3 | C3 | C3 | C3 | C3 | C3 | C4 | C4 | C4 | NA | NA | NA |
| D | 3 | C2 | C3 | C3 | C2 | C3 | C3 | C3 | C4 | C4 | C4 | C4 | NA | NA |
| | 2.5 | C2 | C3 | C3 | C3 | C3 | C4 | C3 | C4 | C4 | C4 | NA | NA | NA |
| | 2 | C3 | C3 | C4 | C3 | C4 | C4 | C4 | C4 | NA | NA | NA | NA | NA |
| | 1.5 | C3 | C4 | C4 | C4 | C4 | NA | C4 | NA | NA | NA | NA | NA | NA |
| | 1 | C3 | C4 | C4 | C4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |









## Terrain Category

The wind speed at a structure is influenced by the terrain it flows over as it approaches the structure. The terrain category classifications can be described as follows:

### Category 1

Exposed open terrain with few or no obstructions and enclosed water surfaces. For example, flat, treeless, poorly grassed plains; rivers, canals and lakes; and enclosed bays less than 10km in the wind direction.

### Category 1.5

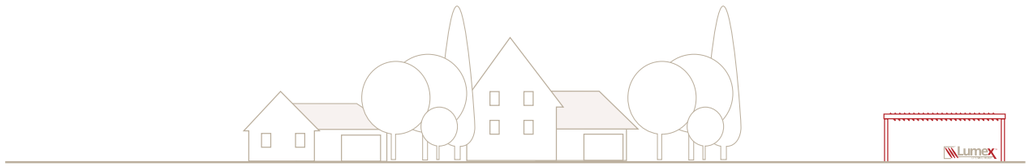
Open water surfaces for example coastal waters, large open bays on seas and oceans, lakes and enclosed bays extending greater than 10km in wind direction.

### Category 2

Open terrain, including grassland, with well scattered obstructions having heights typically from 1.5-5m with no more than two obstructions per hectare.

### Category 2.5

Terrain with a few trees or isolated obstructions, for example terrain in developing outer urban areas with scattered houses.



### Category 3

Terrain with numerous closely spaced obstructions with heights typically between 3-10m, for example suburban housing.

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# Determing Wind Speed

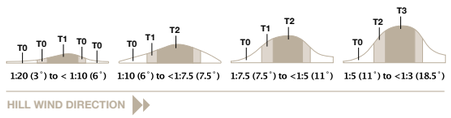
## TOPOGRAPHIC EFFECT

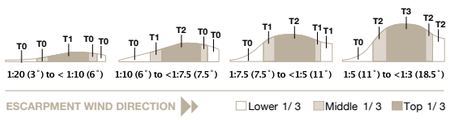
The topographic classification determines the effect of wind on a structure due to its location on a hill, ridge or escarpment and the height and slope of the hill, ridge or escarpment.

The bottom of a hill, ridge or escarpment is the area at the base of which the average ground slope is less than 1 in 20 or approximately 3°. The maximum slope of a hill, ridge or escarpment (regardless of structure site) is measured as the steepest slope through the top half of the hill, ridge or escarpment. With the maximum slope known, the adjacent diagrams may be used to determine the topographic classification based on which third of the hill or escarpment the site is located.

In areas where the maximum slope does not exceed 1 in 20 (approximately 3°) the topographic classification shall be T0.

Note: Diagrams suitable for hill or escarpment heights not exceeding 30m. Refer AS4055:2011 for details if outside of these requirements.




## SHIELDING FACTOR

Shielding classification is required because the wind speed at a structure is influenced by any upwind obstructions of similar size to the structure that are close to the building. in region C and D, trees and vegetation shall not be considered as shielding elements. The three shielding classifications are defined as follows:


### NO SHIELDING eg. Less than 2.5 houses per hectares upwind

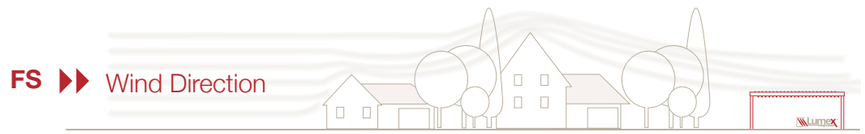
**NS - Represents No Shielding**

No Shielding occurs where there are no (or less than 2.5 obstructions per hectare) permanent obstructions upwind. e.g. The first row of houses or single houses abutting open water, airfields and open parklands.


### PARTIAL SHIELDING eg. 2.5 houses per hectares upwind

**PS - Represents Partial Shielding**

Partial Shielding applies to intermediate situations where there are at least 2.5 houses or sheds per hectare upwind of the structure. e.g. Typical “acreage” type suburban development or wooded parklands. The second row of houses abutting open water or parklands may be classified as having partial shielding.




### FULL SHIELDING eg. 10 houses per hectares upwind

**FS - Represents Full Shielding**

Full Shielding is where at least two rows of houses or similar sized permanent obstructions surround the building being considered. In regions A and B, heavily vegetated areas within 100m of the site can provide Full Shielding. The application of Full Shielding is considered appropriate for typical suburban development, equal to or greater than 10 houses and/or similar sized obstructions per hectare.







## DESIGN FACTORS

Wind speeds have been determined using the following factors, in accordance with AS/NZS1170.2:2011 500 year design return period and an average five metre structure height.

*Note: A 5% allowance has been used when allocating the wind classification.*

**SHIELDING FACTOR (MS)**

| Shielding Classification | Factor |
|---|---|
| Full Shielding (FS) | 0.85 |
| Partial Shielding (PS) | 0.95 |
| No Shielding (NS) | 1.00 |

**TERRAIN CATEGORIES (MZ,cat)**

| Terrain Category | Regions A, B, C and D |
|---|---|
| 1 | 1.05 |
| 1.5 | 0.98 |
| 2 | 0.91 |
| 2.5 | 0.87 |
| 3 | 0.83 |

**TOPOGRAPHIC EFFECT (MT)**

| Topographic Classification | Factor |
|---|---|
| T0 | 1.00 |
| T1 | 1.10 |
| T2 | 1.20 |
| T3 | 1.30 |

## WIND SPEED EXAMPLES

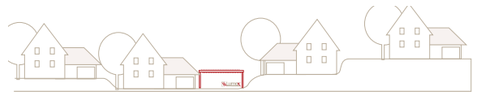
The examples below show typical applications of the rationalised gust wind speeds. For a full analysis refer to AS/NZS1170.2:2011.

REGION A - N1 (W28), REGION B - N2 (W33) AND REGION C - C1 (W41)
**Flat Suburbia**

REGION A - N3 (W41), REGION B - N4 (W50) AND REGION C - C3 (W60)
**Structure sited in undulating sparsely populated terrain**


REGION A - N2 (W33), REGION B - N3 (W41) AND REGION C - C2 (W50)
**Structures built adjacent to an oval or large vacant lot subject to prevailing winds.**


REGION A - N3 (W41) REGION B - N4 (W50) AND REGION C - C3 (W60)
**The first row of buildings adjacent to the sea front**



REGION A - N2 (W33), REGION B - N3 (W41) AND REGION C - C2 (W50)
**Structures on undulating terrain in suburbia**

REGION A - N4 (W50) REGION B - N5 (W60) AND REGION C - C4 (W70)
**Extremely severe - Isolated building on the crest of a hill**

Disclaimer

The method used for calculating the design gust wind speeds has been developed by CW Systems with the assistance of suitably qualified engineers in order to comply with the requirements of AS/NZS1170.2:2011 and classified in accordance with the wind classifications allocated in AS4055:2012.

CW Systems does not accept liability for any loss or damage suffered as a result of any errors in the interpretation or application of this design guide. Any person wishing to check any calculations made by them pursuant to this method may wish to seek independent engineering advice.

*Limited warranty, refer to the terms and conditions in the product manual

# Before you Order - Checklist

**Checklist**

**Review the site where the opening roof systems will be installed and check the following:**

- **Are there any council/ local government regulations that need to be adhered to**
  Check with the local council.
- **Determine the Wind class of the site -**
  **Refer to pg 20.** Using the Engineer span tables ensure the planned blade, and beam spans and post heights are sufficient.
- **Check the level of the site –**
  Determine whether post height adjustments need to be made to ensure the roof is level.
- **Determine the roof configuration** -
  refer to page 13 - 19. How many posts are required
- **Determine the site aspect -**
  The direction of the Western sun. Use this to determine the blade rotation.
- **Determine whether any footings are required.**
- **Determine the downpipe drainage points, and stormwater connection points.**
- **Determine the power supply point.**
- **Determining the Gutter Drop Point.**
  Identify the corner that requires the down pipe (A, B, C, or D). Take into consideration the fall of the roof and the closest storm water connection point. Specify corner preset option.
  The Corner gutter for the selected corner will have a 80mm drop pipe, wielding into the gutter from which a standard down pipe can be attached.
- **Determining the Power Connectivity point.**
  Determine which corner of the roof is closest to you power connectivity point A,B,C or D).
  The Motor will be attached to the side rail closest to the power connectivity point. 5 meters of cable will be supplied from the motor to ensure the power point can be reached.
- **Posts and Beams:**
  If you do not require 250x50mm beams all around, specify which sides you require the beams; Either A-B, B-C, C-D, A-D.
  If you require posts, specify which corners you require the posts, post type and fixing type ( 120 or 150 ).

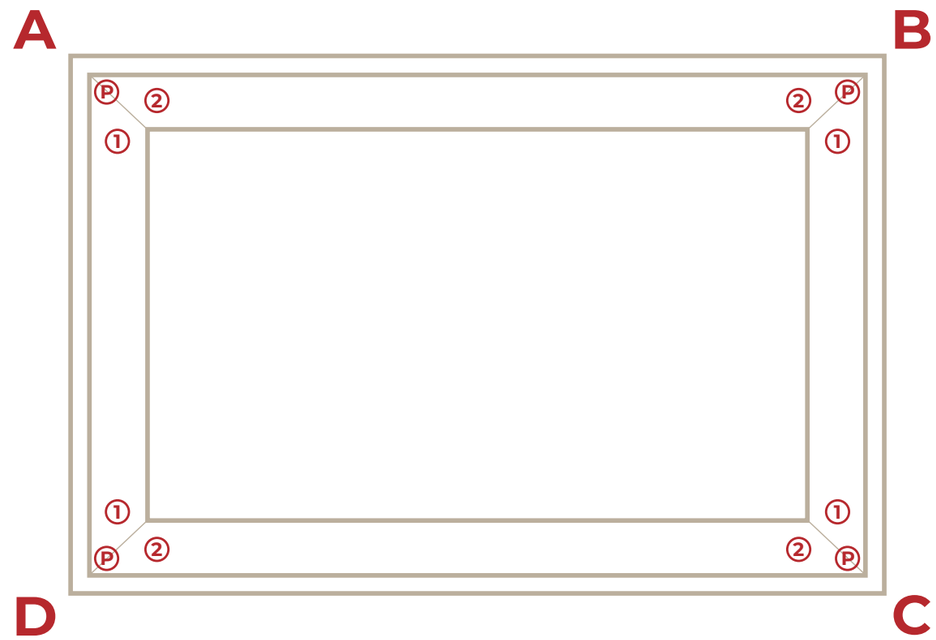


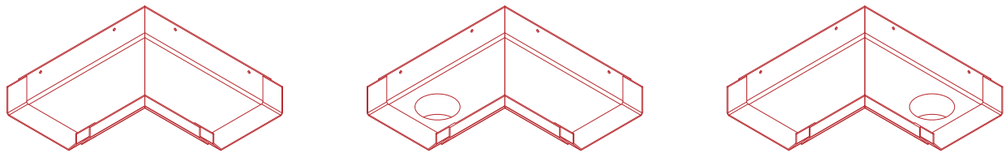


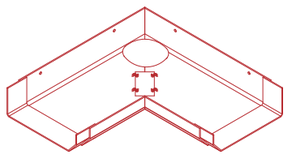


Lumex Opening Roof

Before you Order - Checklist



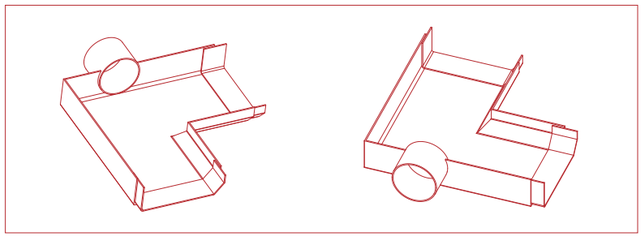





**PLEASE NOTE**

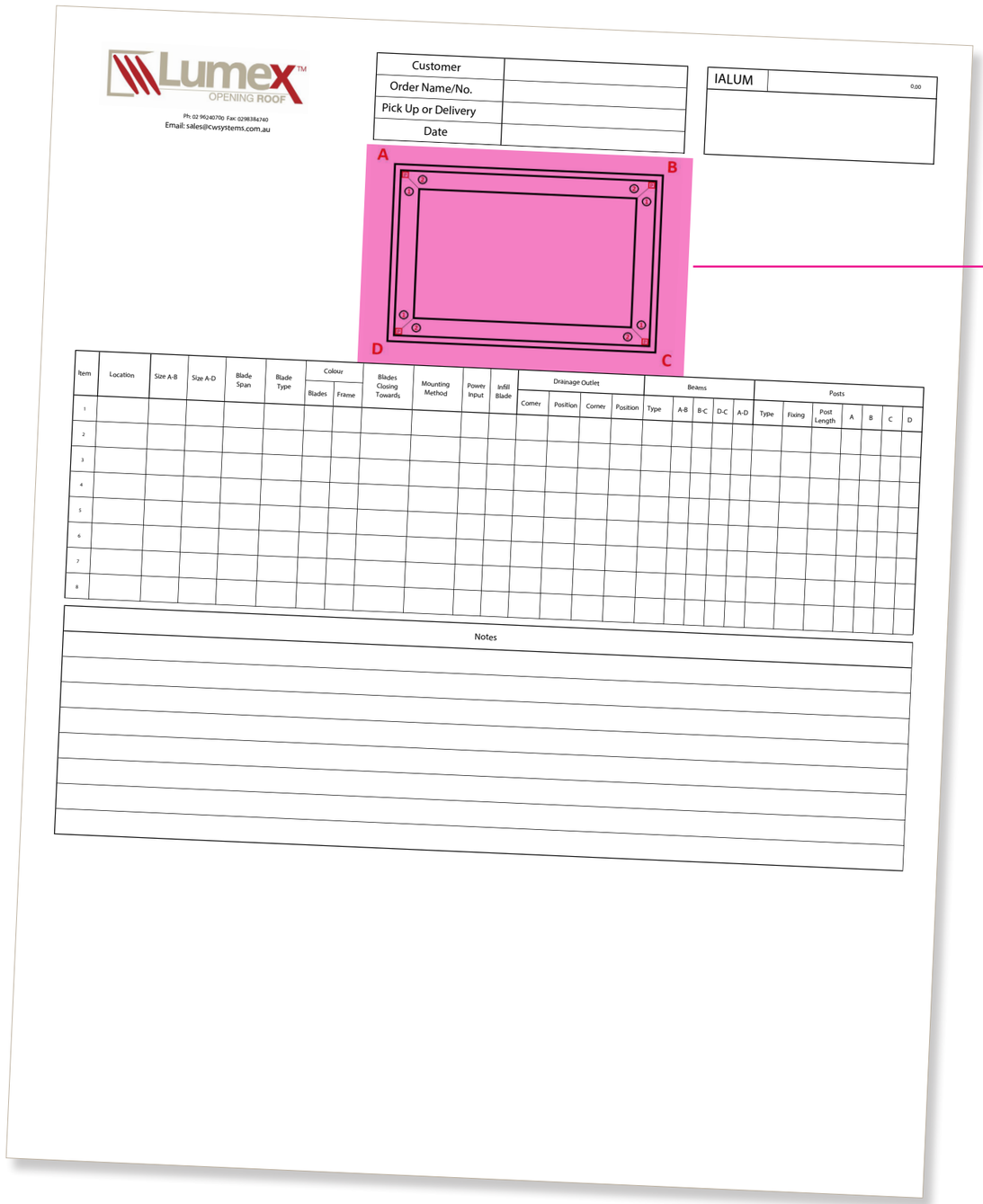
Internal Gutters must have 150mm post

**EXTRA OPTIONS**



*Limited warranty, refer to the terms and conditions in the product manual

## Checklist - Order Form







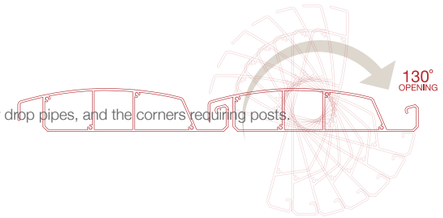

## Closing Direction - Diagrams

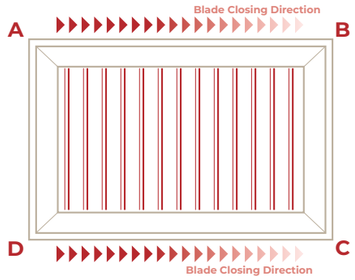
### How to order:

Order using the A,B,C,D model on the order form.

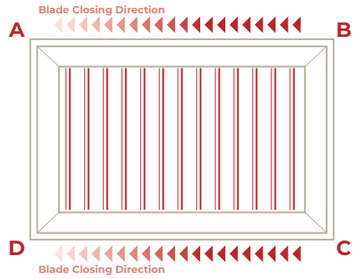
Use the A,B,C,D model to determine the Blade rotation, Power connectivity, Storm water drop pipes, and the corners requiring posts.

A copy of the order form is attached on the next page.

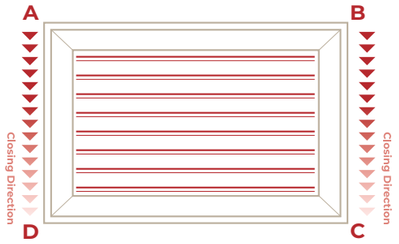


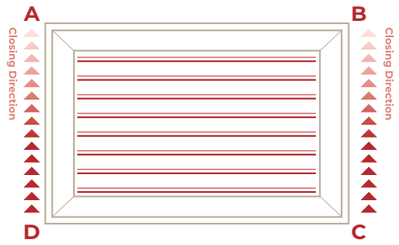

**Scenario 1**
Blade Span = **A - D**
Closing Direction = **Towards BC**




**Scenario 2**
Blade Span = **A - D**
Closing Direction = **Towards AD**




**Scenario 1**
Blade Span = **A - B**
Closing Direction = **Towards DC**




**Scenario 1**
Blade Span = **A - B**
Closing Direction = **Towards AB**







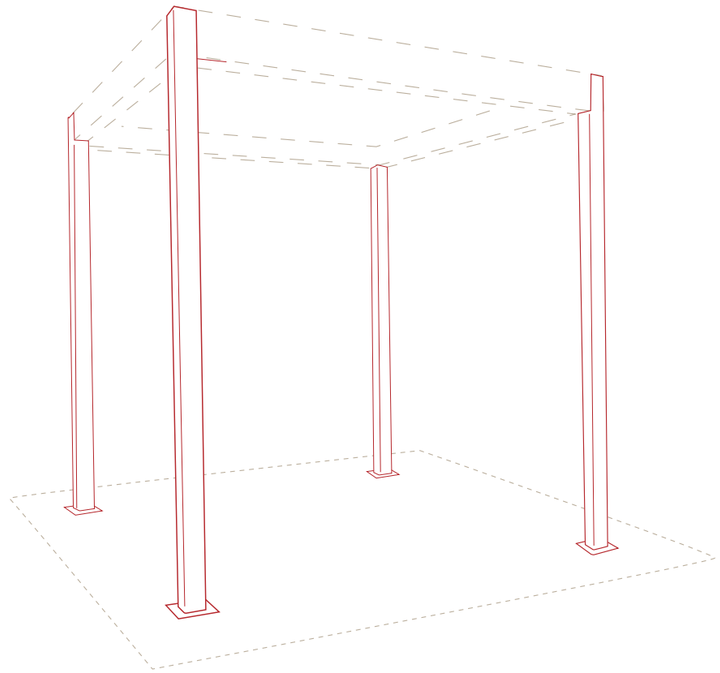
*Limited warranty, refer to the terms and conditions in the product manual

**STEP 1**

Layout the Site. Marking where the 4 corners of the roof will be positioned.

**STEP 2**

Check the level of the site. Cut your posts according to the level of the site.

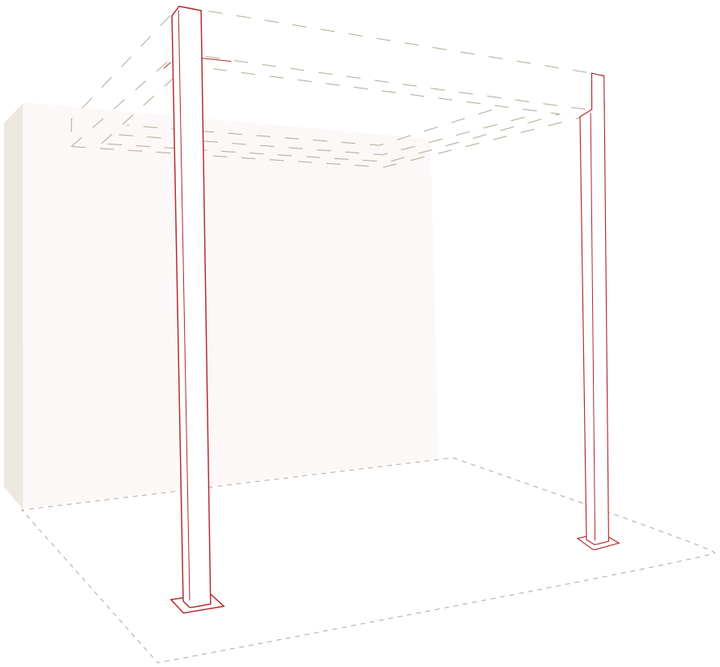


**STEP 1**

Layout the Site. Marking where the 4 corners of the roof will be positioned.

**STEP 2**

Check the level of the site. Cut your posts according to the level of the site and then mark wall level with the post.







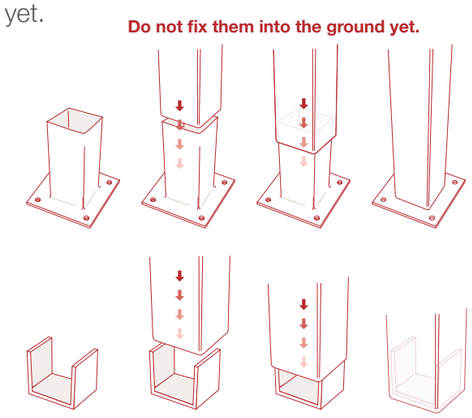






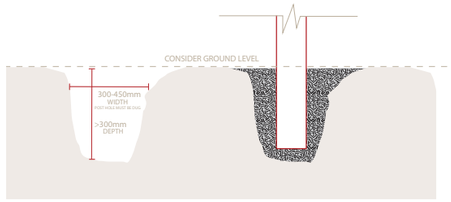
**STEP 3 -**
**BASE PLATE**

Place the 4 post in position, hold them up with props. Do not fix them into the ground yet.



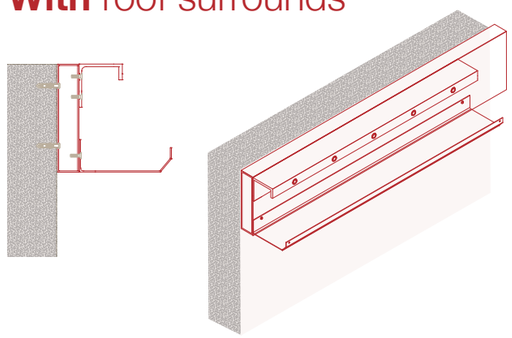

**POST FOOTING**

Dig footings at the required depth, and concrete the posts into place, making sure all posts are level at the top.

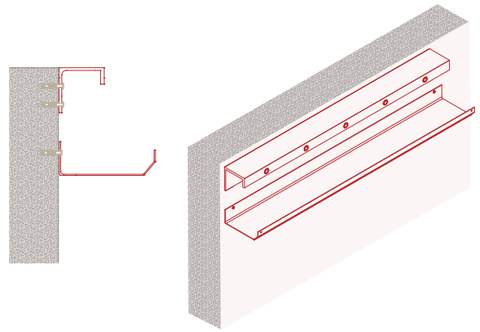



The following instructions apply for free standing structures. If you are wall mounting please mount to the wall as shown below and follow the instructions accordingly.

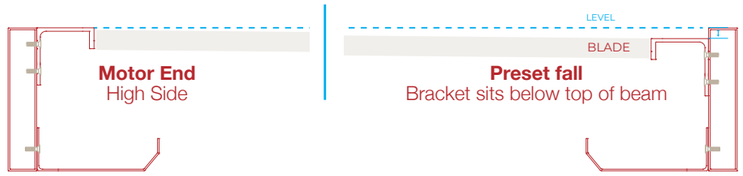
## **With** roof surrounds

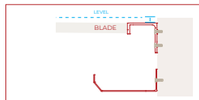


## **Without** roof surrounds



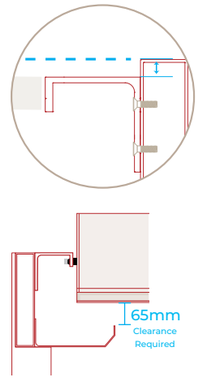
## Design Options - Preset Blade fall




**When Direct mount this fall will be set by installer**

**Recommended fall is 1%, maximum 30mm**

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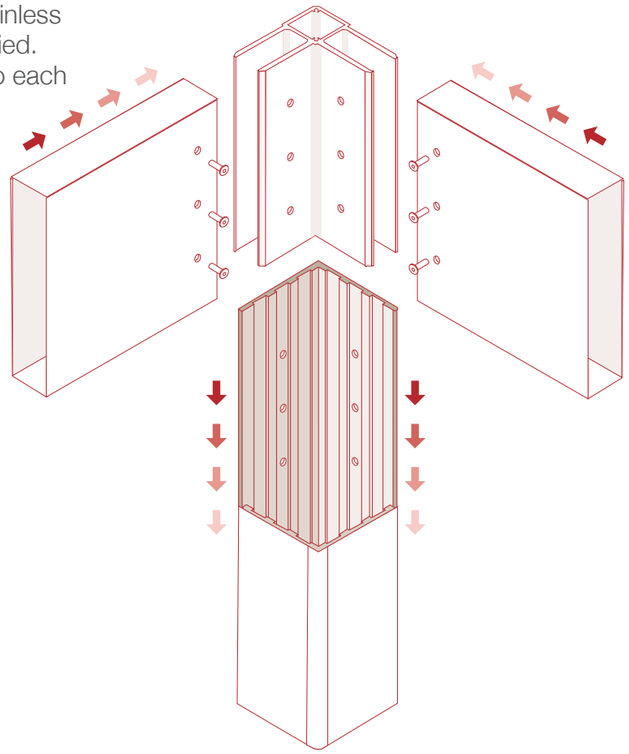
**STEP 4**

Fix the corner joiners into the top of the 250x50 Surrounds, using the Stainless Steel M8x30mm Hex Bolts supplied. Only fix One of Corner joiners into each 250x50 Surround.

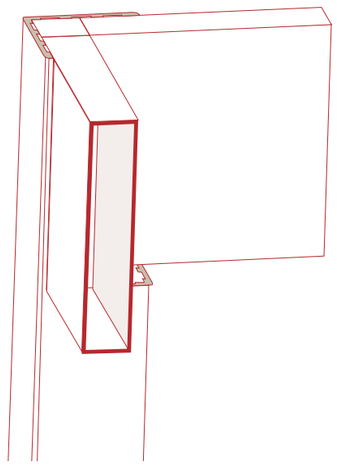


**STEP 5**

Position the first 250x50 Beam on top of the posts, loosely fixing it to the post mounting plate.

**STEP 6**

Slide the next 250x50 Beam into the corner joiner of the previous 250x50 beam. Fix the corner into position ensuring the corner is square.







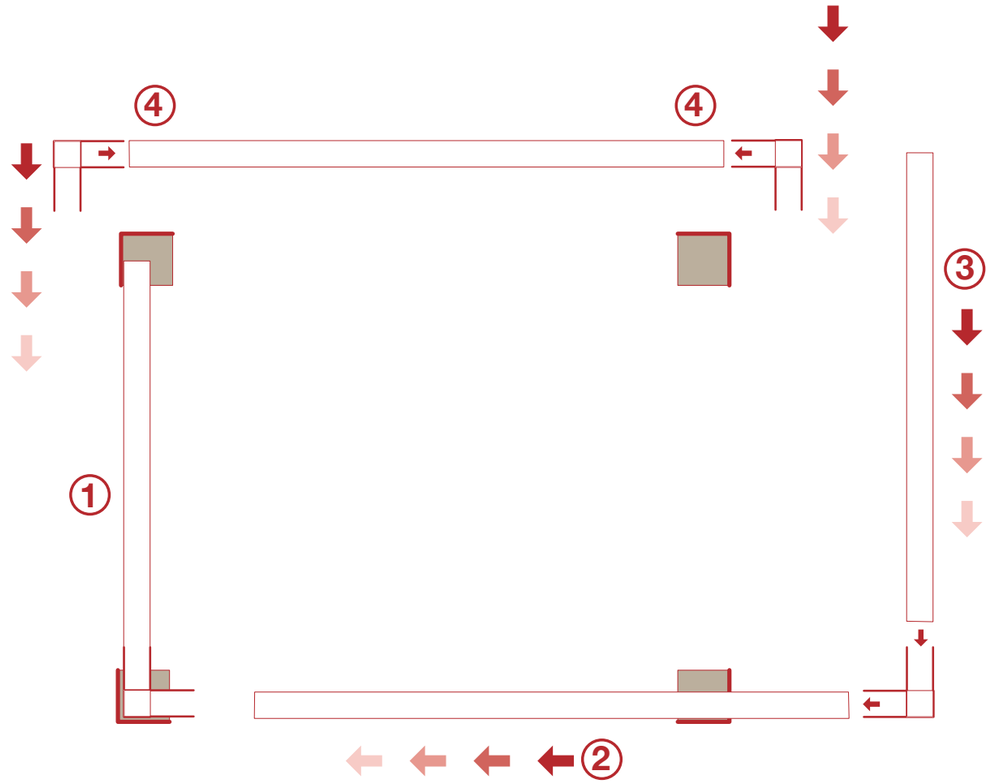
Lumex Opening Roof
Installation Instructions





**STEP 7**

Repeat this process for the 2 other 250x50 beams.




Please Note

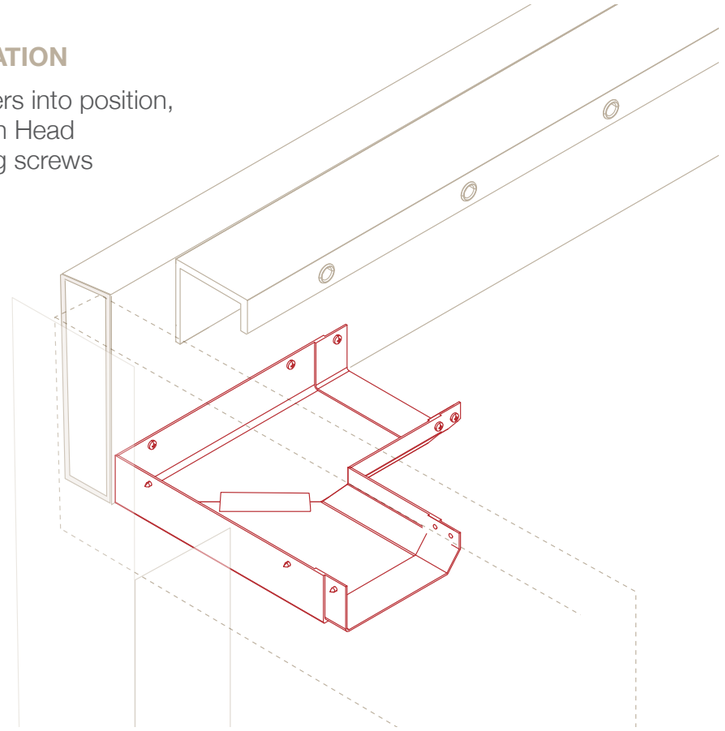
When fixing directly to a wall or existing structure.

Start at the wall first and work your way out to the posts

*Limited warranty, refer to the terms and conditions in the product manual

**STEP 8 -**
**GUTTER INSTALLATION**

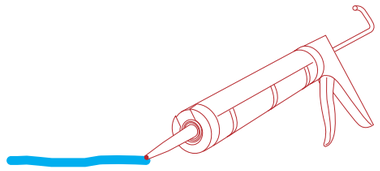
First the corner gutters into position, using the Phillips Pan Head St4.8*13 self-tapping screws supplied.

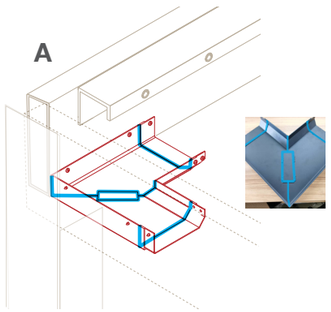


**STEP 9 -**

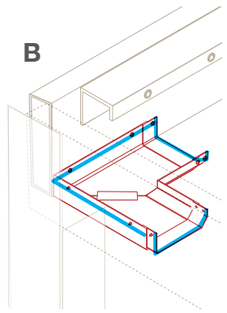
## Silicone

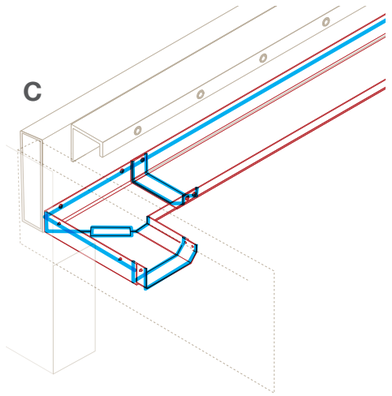
Before fixing the corner, gutters apply Sikaflex (silicon) or similar to the beam to ensure the joint is completely water tight.









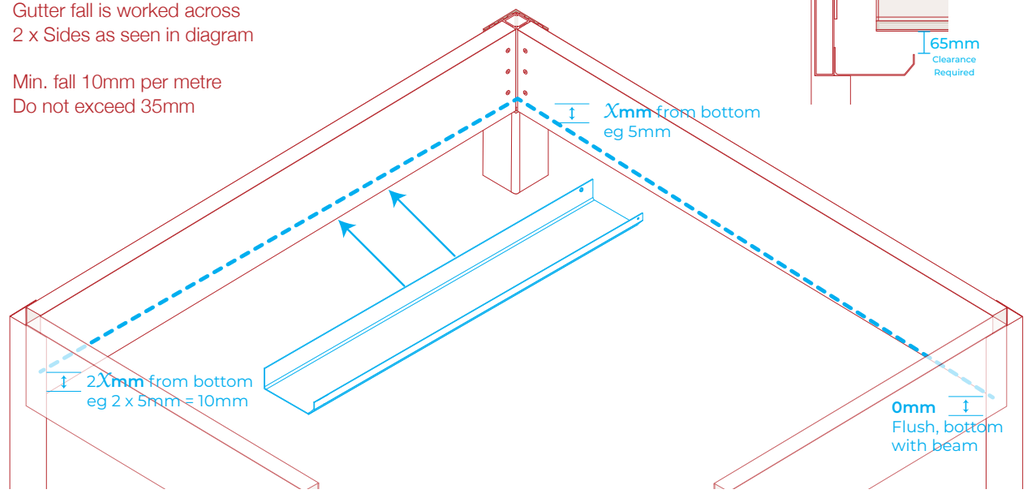


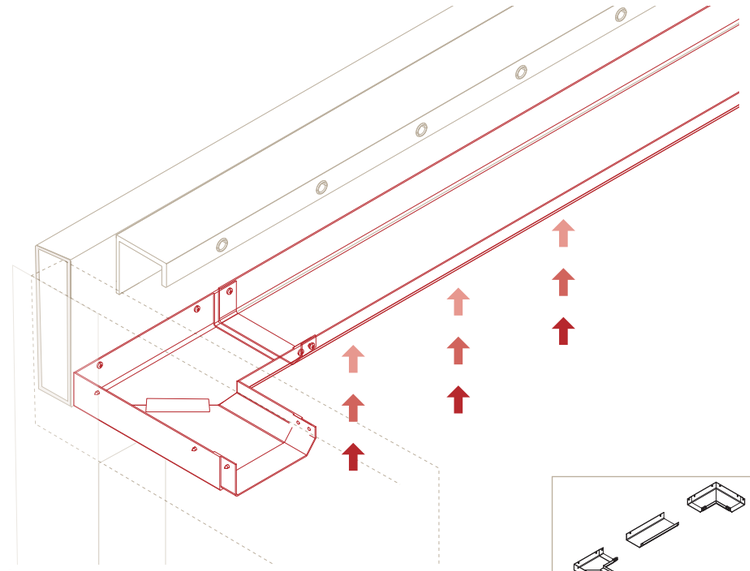



## Gutter Fall Installation

Gutter fall is worked across
2 x Sides as seen in diagram

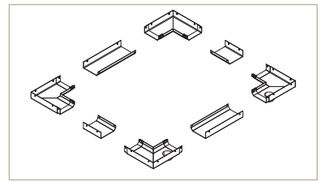
Min. fall 10mm per metre
Do not exceed 35mm



**STEP 11**
**GUTTER INSTALLATION**

Slide the gutters up into the corners joints, applying Sikafex at the joints, and along the edge of the beam and gutter joint.
Fix the gutters to the beam using the stainless steel pan head self-tapping screws supplied.

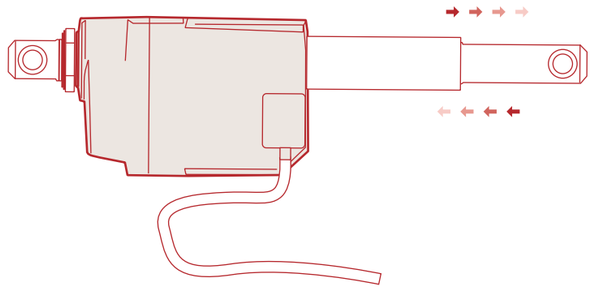






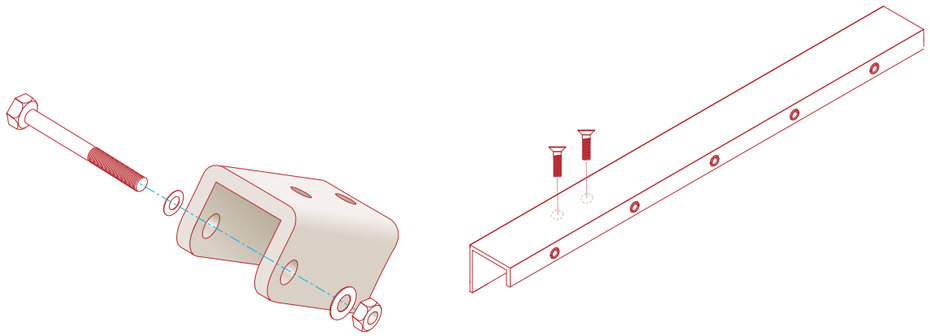


*Limited warranty, refer to the terms and conditions in the product manual



**STEP 12 -**
**MOTOR INSTALLATION**

Attach the motor mount on the Side Rail, using the hex bolts supplied.

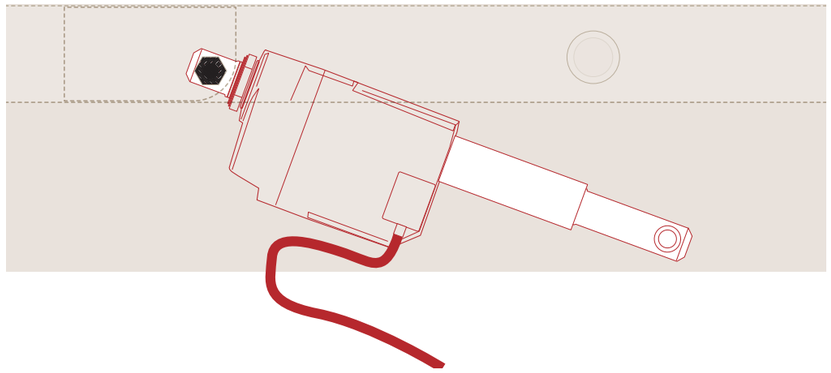


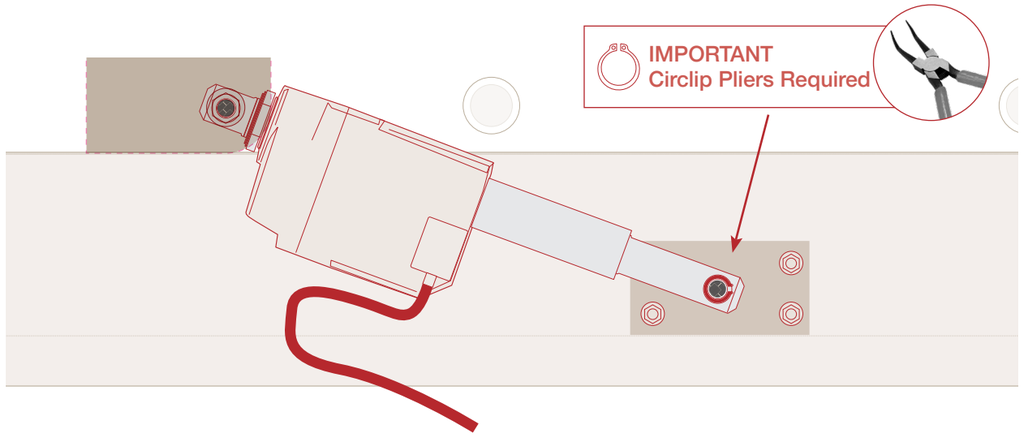




**STEP 13 -**
**MOTOR INSTALLATION**

Attach the Motor to the Motor Mount ( U channel Bracket ) with pin.
Secure with nut amd bolt.

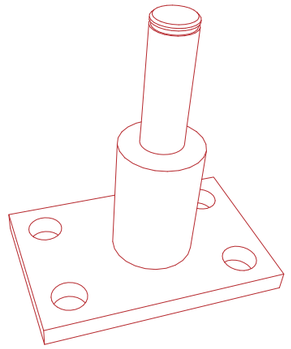





**STEP 14 -**
**MOTOR INSTALLATION**

Attach the control rod bracket to the control bar using nuts and bolts supplied.

Slide motor arm over shaft on the control rod bracket and secure with Circlip.





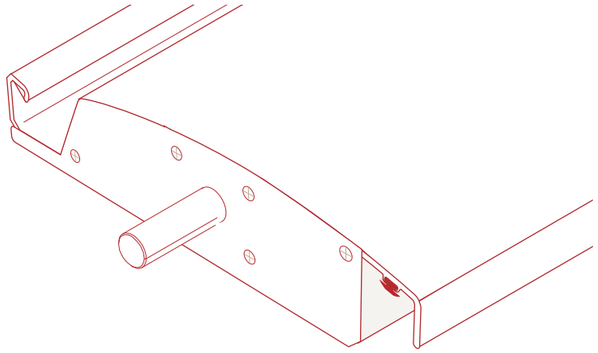




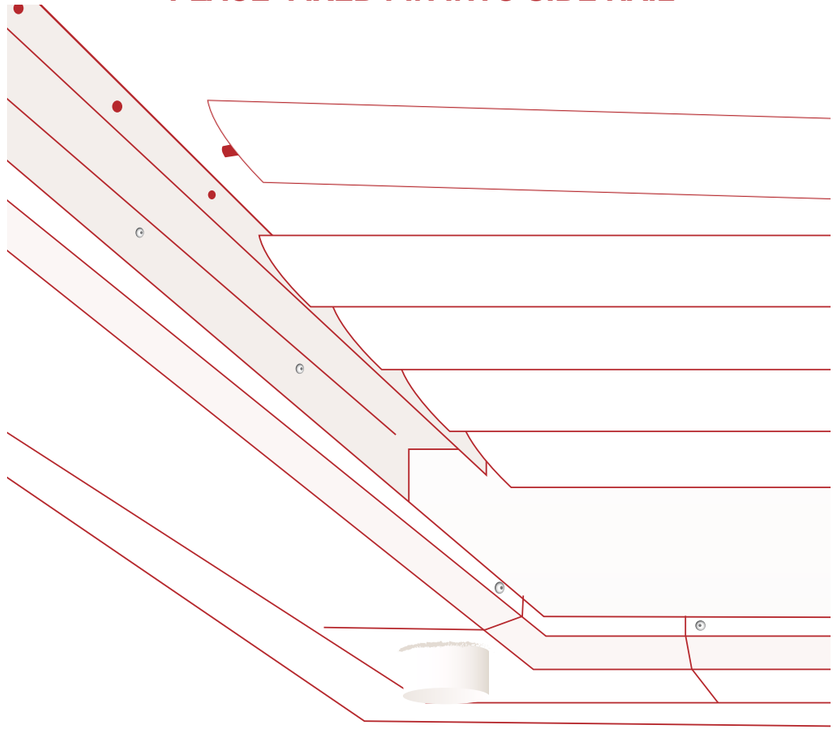
*Limited warranty, refer to the terms and conditions in the product manual

**STEP 15 -**
**BLADE INSTALLATION**

Mount the blades, by sliding the ‘fixed pin’ in the idle side and the ‘spring pin’ in the motor side. Fix the blade to the control bar with the bolt provided (M8*20)



**PLACE FIXED PIN INTO SIDE RAIL**





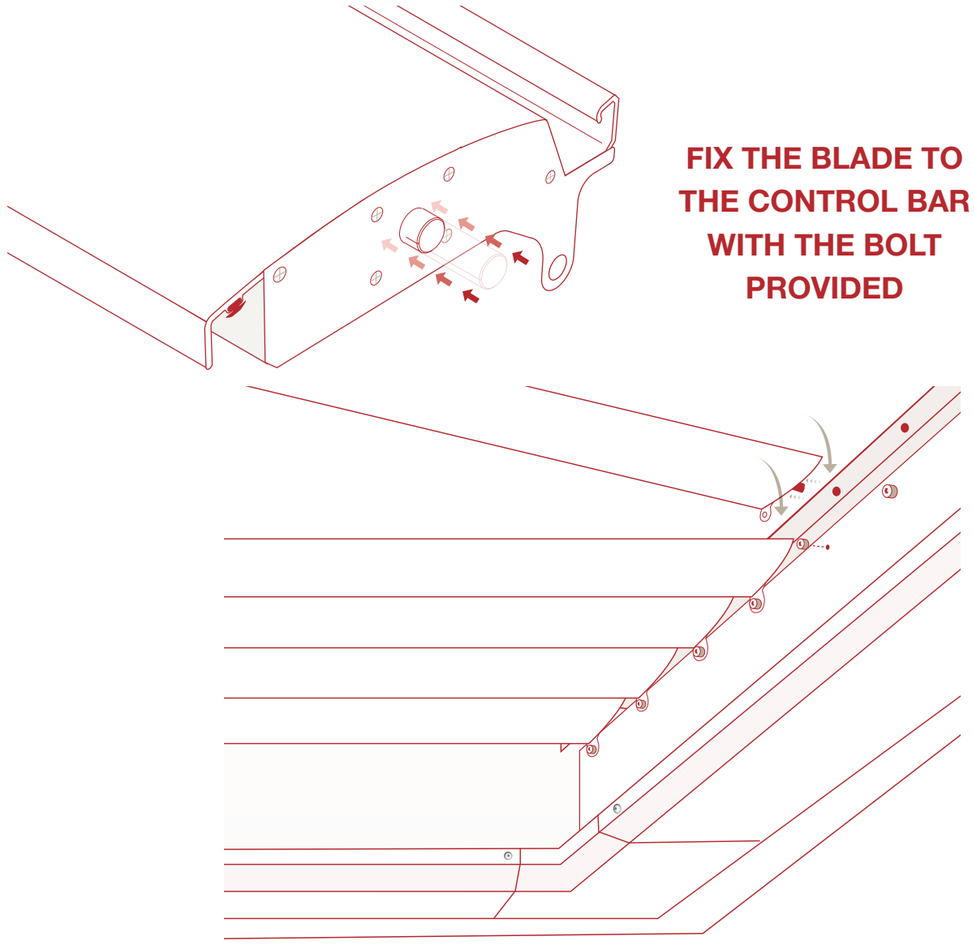










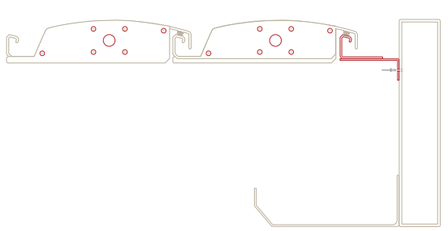


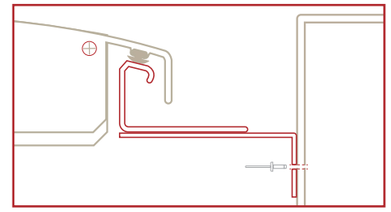
**FIX THE BLADE TO THE CONTROL BAR WITH THE BOLT PROVIDED**

**STEP 16 -**
**HALF BLADE INSTALLATION**

If a half blade is supplied, lift it into position using the predrilled holes in the beam & L-angle as a guide. Rivet in place using rivets supplied.

The fall of the half blade should align with the fall of the operable blades.



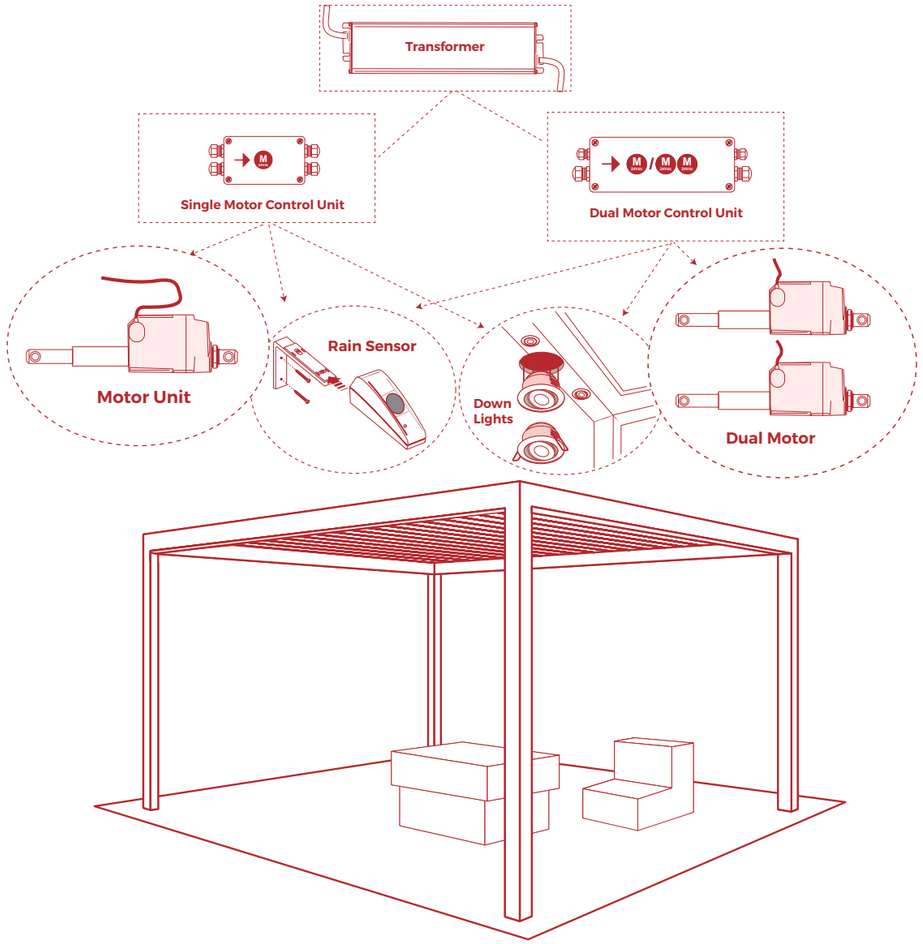


Half blades come in variable depths.



*Limited warranty, refer to the terms and conditions in the product manual

## Wiring Diagram




Remote Control







*Limited warranty, refer to the terms and conditions in the product manual

# Warranty

## What products does this warranty cover?

Our Warranty and Repair Policy covers the repair or replacement of CW product brands, if found to be defective in materials or workmanship. A 'repair' is any order that relates to a previous order, whether making a warranty claim, re-ordering or just requiring a product part for the same job.

A product will be deemed defective if a defect is visible with the naked eye in natural daylight at a distance of 1.5 metres.

This warranty only applies to CW Systems products. CW Systems reserves the right, at its discretion, to void warranty if and where a distributor rebrands a CW product or brand.

## To whom do we give this warranty?

We give this warranty to the original purchaser, only if the goods were purchased from a CW Systems distributor (retailer, dealer or reseller) as new goods.

Warranty only applies when the product is fitted in accordance with the distributor's instructions and are used for the intended purpose for which the product has been manufactured.

Warranties are not transfe rable and are only available to customer to whom invoice is addressed.

## What is CW Systems responsibility?

CW Systems will repair or replace at its sole discretion any parts or items deemed to be suffering from a defect. If and where possible, CW Systems will repair or replace the defective product using identical or similar components.

If CW Systems designs and/or styles have been altered or upgraded, CW Systems will replace any components suffering from a defect with a part or product of comparable quality and value.

## How do we honour this warranty?

We will either repair our goods, or replace our goods with new goods, at our discretion, if:

- the goods have a defect in the materials or workmanship, or the goods fail to operate as intended; and
- you make a claim under this warranty as provided below, within the time periods set out below.

## Warranty Commencement Condition

The warranties shall be valid once the installer has;

- provided to the customer a warranty certificate signed by the installer as issued by CW Systems with the product details and,
- the relevant part of the warranty certificate has been returned by the customer to CW Systems with a copy of the invoice issued by the installer to the customer and
- it is with a copy of the receipt issued by the installer evidencing payment to the installer.

The warranty certificate must be returned to the distributor no later than 21 days after the completion of the installation for the customer to be entitled to these warranties.

## Who will incur costs? Are there any costs?

The consumer will be required to pay the cost of any travelling time to inspect goods, freight or handling costs, any removal and installation costs. There may also be an additional call out fee charged for inspection when you make a claim, however any call out fee that we charge you will be refunded if we determine that the goods are defective.

This warranty does not cover the costs of removal of the warranted goods or installation of the repaired or replaced goods including consequential or incidental damages. However, we will meet those costs if the goods breach any of the guarantees applicable under the Australian Consumer Law.









Lumex Opening Roof

# Warranty

## What warranty will not cover

This warranty is only valid for the original purchaser or first end user and is at the sole discretion of CW Systems. The warranty is ex-factory and restricted to supply only.

The warranty excludes any shipping, labour or other associated costs with the installation or removal of product and all liability for consequential or incidental damages.

For the purposes of this warranty, "defect" does not include (and we will not replace or repair products suffering from) damage caused by:

- Normal wear and tear
- Installation or the manner of application or fixing
- Installation damage to the window(s) or premises
- Misuse, abuse or accident
- Use of the product outside the CW Systems specification guidelines and its intended use
- Failure to follow instructions with respect to cleaning and/or maintenance
- Incorrect or insufficient care, cleaning and maintenance
- Any unreasonable or unusual use or a failure to carry out normal maintenance and cleaning
- Exposure to the elements (e.g. sun damage), progressive or discolouration over time; installations subject to salt spray or marine influences, severe industrial or corrosive environments if not a sufficient powdercoat chosen
- Modifications made by any person other than a professional and certified installer or caused by use or installation that is not in compliance with the installation instructions provided with the product, or otherwise provided by CW Systems
- Use of components not supplied by CW Systems
- Any alterations made to original product supplied
- Fire, flood or natural disasters or acts of God
- Defects due to any contamination or pollution due to surface dirt or staining
- Damage caused by any third party
- Damage caused by pets and animals, such as but not limited to, scratch or bite marks
- Batteries are not covered under this warranty
- Water Damage to electronic systems and Motors.

*Limited warranty, refer to the terms and conditions in the product manual

### Distributor obligations under the Warranty

CW Distributors must supply customer with 'Warranty Certificate' on the day of installation and fill accordingly then return to CW Systems sales@cwsystems.com.au or PO Box 215, Winston Hill NSW 2152 within five business days of installation date. This document certifies that the person named on the certificate properly installed the product thus limiting liability. (A distributor can request for a copy of the Warranty Certificate by emailing sales@cwsystems.com.au )

If the product/s are defective the liability of CW Distributor shall be limited and at the discretion of the Distributor, he/she has the option to do one or more of the following:

- Replace the product or supply equivalent product
- Repair the product
- Pay for the cost of replacing the product or acquiring equivalent product
- Pay the cost of having the product repaired
- Refund the customer of the cost paid by the customer for the product

### Warranty & Repair Policy Claim

When claiming under this Warranty to CW Systems, you must submit a completed Repair Request Form through original distributor in writing, AND you must substantiate your claim with proof (ie unedited photograph) of the error or defect. For a copy of the Repair Request form, please email sales@cwsystems.com.au

The customer must submit the form within a period of one calendar month of first detecting the defect and at their cost.

We will then arrange for the goods to be inspected and determine whether they are defective and if, acting reasonably, we agree they are defective we will (at our option) either repair the goods, or replace the goods with new goods. A call out fee may be charged for inspection, however any call out fee that we charge you will be refunded if we determine that the goods are defective.

The Repair Request Form will be assessed by CW Systems and if accepted as a defect of material or labour, will be processed and sent onto the factory of manufacture for re-supply.









Lumex Opening Roof
Warranty

### How do I make a claim?

Distributor checklist is as follows:

1. Email sales@cwsystems.com.au and ask for a Repair Request Form
2. Ask customer to take photos of the alleged defect
3. Fill out Repair Request Form and attach photo/s with defect explanation then return to CW Systems (please note that your Repair Request Form will be rejected if all the sections are not satisfactorily completed)

Customer checklist is as follows:

1. Prepare claim no longer than one calendar month of first detecting the defect
2. Email details of your claim to the address of the original place of purchase (distributor) and distributor name including:
   a. your name, address, phone number
   b. date of installation of product
   c. images of defect
   d. explanation of the circumstances in which the defect appeared and that you wish to claim under this warranty
   e. proof of your purchase and the warranty certificate details
   f. all other information we would and reasonably request about the circumstances in which you consider the defect was caused

### Your repair cannot be accepted if:

The Repair Request form is not filled out correctly or in its entirety, including measurements, details of the cause and effect and the original order information

You are making a claim and have not supplied the relevant photographs

The job had not been paid for in full in accordance with the purchase order

The Warranty Certificate has not been previously submitted within the stated time

### The period in which this warranty applies

Please note that each material type has its own limited warranty and will be supplied upon request. To review a specific product warranty please email sales@cwsystems.com.au

CW Systems warrants the Lumex Opening Roof (Product of CW Systems) with a 10 year limited warranty. The warranty breakdown is as follows:

## ***10 YEAR** LIMITED WARRANTY*

**10 Years Warranty**
Powdercoating finish & Structure.

**5 Year Warranty**
Motor, Transformer and Receiver.

**2 Year Warranty**
Free from defects in material or workmanship.

*Limited warranty, refer to the terms and conditions in the product manual

Lumex Opening Roof

# Warranty REPAIR REQUEST FORM

ABN: 98 138 897 088

Head Office: 4-6 Viewbrook Close, Seven Hills NSW 2147
Postal Address: PO Box 215, Winston Hill NSW 2152
Ph: (02) 9624 0700 Fax: (02) 9838 4740
Email: sales@cwsystems.com.au

**IMPORTANT NOTICE:**
A PHOTO IS REQUIRED FOR ALL PRODUCTS IF YOU ARE MAKING A WARRANTY CLAIM.
THIS REPAIR WILL BE REJECTED IF ALL THE APPROPRIATE SECTIONS ARE NOT COMPLETED.

| | |
|---|---|
| CUSTOMER: | |
| REPAIR ORDER NO. : | CW SYSTEMS OFFICE USE ONLY, NEW ORDER No.: |
| YOUR ORIGINAL SIDE MARK OR ORDER No. : | |
| IF KNOWN CW SYSTEMS ORIGINAL ORDER No. : | |
| OPENING ROOF REPAIR: | DATE: |
| PROBLEM CAUSED BY: | PHOTOS ATTACHED WITH EMAIL: |
| GENERAL REASON FOR REPAIR: | |

| FACTORY WORK REQUIRED: | | CUSTOMER NOTES: |
|---|---|---|
| Item No. | | |
| Item No. | | |
| Item No. | | |
| Item No. | | |
| Item No. | | |
| Item No. | | |
| Item No. | | |
| Item No. | | |
| Item No. | | |
| Name of Person Submitting Repair Request: | | |

OFFICE USE ONLY

OFFICE NOTES

**REQUEST EXCEL FORM:**
send to sales@cwsystems.com.au

www.lumexopeningroofs.com.au





Lumex Opening Roof

# Warranty Certificate

To: CW Systems P/L
PO Box 215,
Winston Hill NSW 2152

This is to certify that the person named on this certificate had installed at the property named on this certificate the CW Systems P/L product known as _____ on the date specified on this certificate.

Name and address of installer: .....
.....
.....

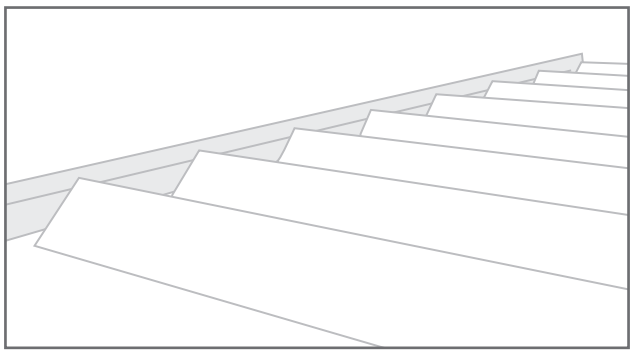
Place of installation: .....
.....
.....

Date of installation: .....
.....

Signed by the installer: .....

Dated: .....

*Limited warranty, refer to the terms and conditions in the product manual



Lumex™
OPENING ROOF



CW systems PTY LTD