

# opening roofs

By Louvretec



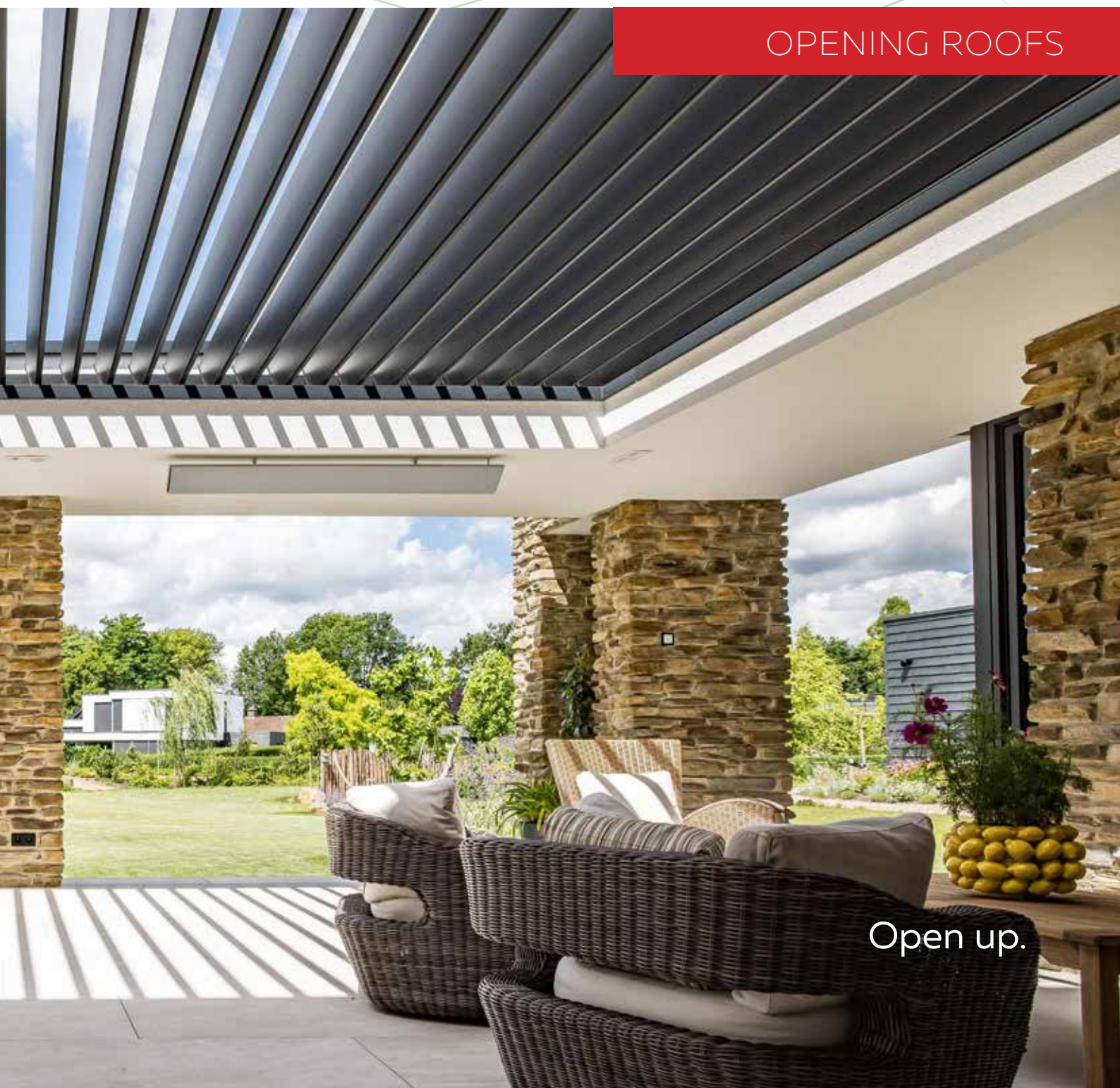
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## OPENING ROOFS







1. 200 SUBURBAN ROOF 2. 270 TRANSLUCENT ROOF 3. LARGE 220/35 SLIMLINE ROOF 4. FLOW TO THE OUTDOORS





5. OUTDOOR ROOM 6. OPENING ROOF CLOSED 7. POOLSIDE COMFORT 8. URBNSURF PARK, SYDNEY OLYMPIC PARK

## ALL NEW FOR 2025 INTRODUCING THE LOUVRETEC SLIMLINE RANGE OF OPENING ROOFS

These blades are also Retract Roof Compatible!

Louvretec's 2025 range of Opening Roofs incorporates new Slimline design with "Cushion Closing" functionality.

Louvretec Slimline is a completely new Louvre Roof range developed for both standard/pivoting Opening Roofs as well as Retract Roofs, making this range perfect for large, multi-roof projects.

### Louvretec Slimline Roof Key Features

Available in four sizes;•

- 180/30 Slimline Roof & 200/35 Slimline Roof (Spiral Pivot only)
- 220/35 Slimline Roof (Spiral Pivot & Retract Compatible)
- 220/45 Alpine Roof (Spiral Pivot & Retract Compatible)

### Completing the range

- 200 Suburban Roof – designed with quality and economy in mind. Also available as a 200 Suburban Express Free-Standing modular option
- 270 Translucent Roof – incorporating a Translucent Panel. ideal for use when loss of light is an issue

### Proudly NZ & Australian designed and manufactured

All jointly designed, manufactured and distributed worldwide by;

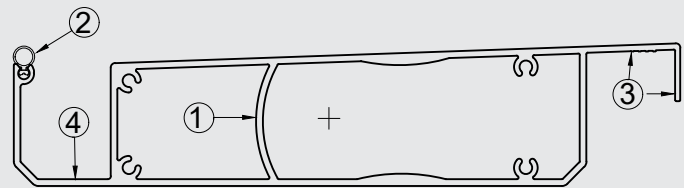
Louvretec NZ Ltd



& Louvretec Australia Pty Ltd.



### OPEN UP YOUR HOME



#### 220/45 ALPINE ROOF (SPIRAL & RETRACT COMPATIBLE)

Sleek, functional design, clean and uncluttered when open or closed. Somfy powered or hand-operated award winning Spiral Pivot operating system. Built with Alpine & Coastal conditions in mind.

1. Design strength of an extruded double box-section
2. "Cushion Closing" onto a bulb seal strip
3. Increased closing cover angle for added weather protection
4. Larger blade gutter incorporated for extra storm-water dispersal

MINIMUM - MAXIMUM BLADE SPANS AT A GLANCE AS DETERMINED BY WIND SPEED. REFER TO SECTION 13 ENGINEERING REPORTS FOR FULL DETAILS ON BLADE SPANS.

EXTRA HIGH WIND  
SPEED 198KM/H 55M/S



LOW WIND SPEED  
115KM/H 32M/S



## THE LOUVRETEC RANGE OF OPENING ROOFS

Award Winning Spiral Pivot System Opening Roofs & Retract Compatible Roofs



Spiral Pivot Opening Roofs  
pivot blades open & closed

louvretec retract  
ADI Retract Technology



Retract Roofs  
pivot open & closed and  
also Retract back!



Louvretec Spiral Pivot  
Roofs are also available as  
a Solar Powered Option.

TYPE/COLLECTION	LOUVRE BLADE STYLE	DRIVE SYSTEM	MAXIMUM SPANS
SLIMLINE OPENING ROOFS	<p>180/30 SLIMLINE ROOF</p>	<p>3350MM EX HIGH</p> <p>4500MM LOW</p>	
	<p>200/35 SLIMLINE ROOF</p>	<p>4000MM EX HIGH</p> <p>4500MM LOW</p>	
	<p>220/35 SLIMLINE ROOF (RETRACT COMPATIBLE)</p>	<p>3500MM EX HIGH</p> <p>4300MM LOW</p>	
	<p>220/45 ALPINE ROOF (RETRACT COMPATIBLE)</p>	<p>5000MM EX HIGH</p> <p>5000MM LOW</p>	
SUBURBAN ROOF	<p>200 SUBURBAN ROOF</p>	<p>3300MM EX HIGH</p> <p>4500MM LOW</p>	
TRANSLUCENT OPENING ROOF	<p>270 TRANSLUCENT ROOF</p>	<p>3250MM EX HIGH</p> <p>4500MM LOW</p>	





## DRIVE SYSTEMS

### Spiral Pivot - four variants

Hidden away, the award winning Spiral Pivot system is the very heart of Louvretec's operating system. Linked to a custom made gear box and driven by Somfy - the world's leading tubular motor manufacturer.

#### 1. MOTOR OVER SPIRAL PIVOT

This tried and tested system has been well proven over many years and continues to be used as standard on Louvretec's 200 Suburban Series Opening Roofs.



MOTOR OVER SPIRAL PIVOT



#### 2. DOWNUNDER SPIRAL PIVOT

Designed specifically for Louvretec's new generation Super Roofs. As the name implies Down-under not only has the pivot operating system hidden from sight, so too is the motor and gearbox.

With neither operating mechanism nor motor to be seen Down-under provides for the cleanest look imaginable. Now available on request on all Opening Roofs.



DOWNUNDER SPIRAL PIVOT



#### CONTROLLER OPTIONS

Refer Section 2 pages 2.17 - 2.18 for range of options.

#### 3. SOLAR POWERED SPIRAL PIVOT

Louvretec now offers a Solar Powered option for all Opening Roofs.



SOLAR POWERED SPIRAL PIVOT



#### 4. HAND OPERATED SPIRAL PIVOT

Using a custom engineered gearbox with stainless steel crank handle, all Louvretec Opening Roofs are available as a hand operable option in lieu of motorised.

The roofs can be operated with ease, with the crank handle being detachable for storage when operation is complete.



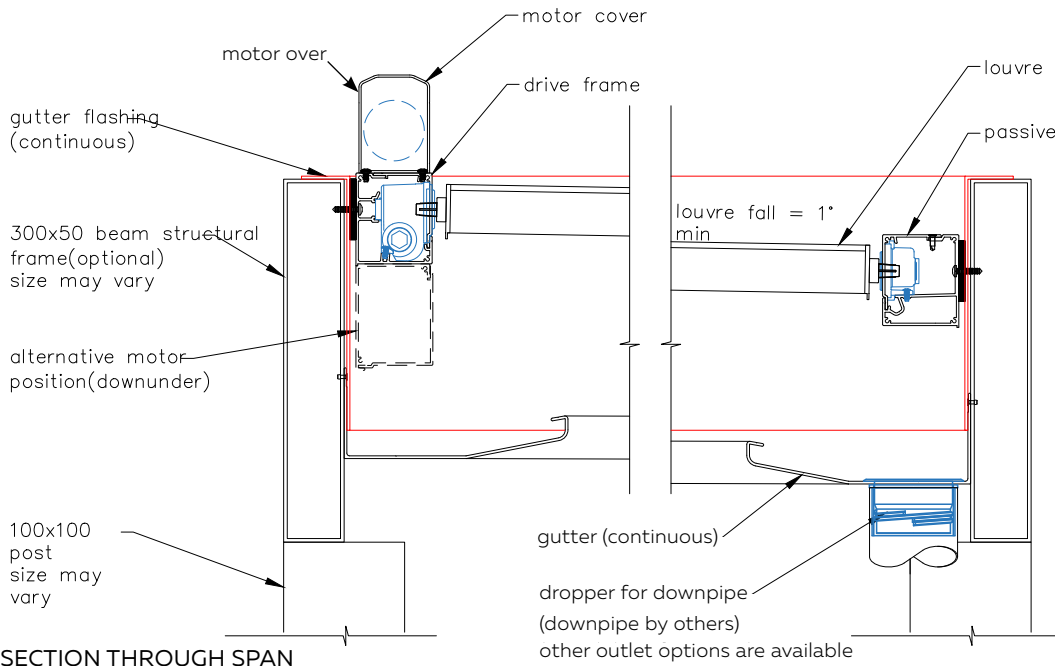
HAND OPERATED SPIRAL PIVOT



# DETAILS AT A GLANCE

## Motor location

Ideally locate motor on high side, passive on low side. If due to down-pipe location or power source that the motor must be located on low side it is strongly recommended to use Motor Over option.



### BLADE FALL

Opening Roof louvre blades are installed at a minimum pitch of 1° which equals 17mm per metre.

### GUTTER FALL

Falls in gutters is determined by location of down-pipe outlet. A minimum fall of 3mm per metre is required for gutters.

SECTION THROUGH SPAN

## IN MOST INSTANCES STRUCTURAL OUTER FRAME IS INSTALLED LEVEL

This allows for ease of other installation options such as Louvre Panels, Slidetec Frameless Glass Sliding Doors or Outdoor Blinds.

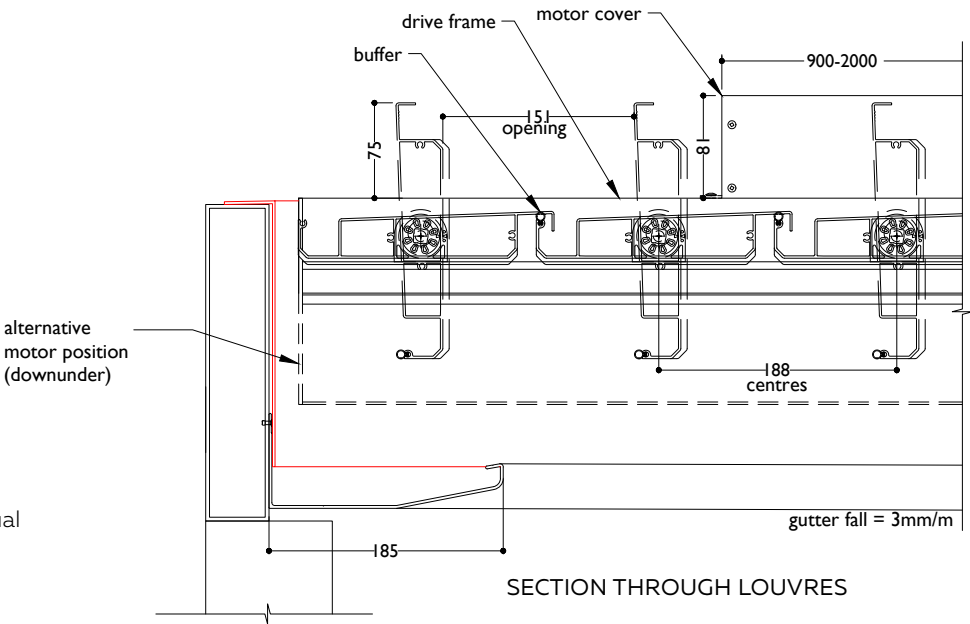
## Clearance

When fixing under a soffit or overhead obstruction remember to check clearances above drive frame (or passive frame if passive is highest side). Check for motor cover and when opening roof blade is in vertical open position.

As a rule of thumb allow clearance of 100mm for all Opening Roofs excluding the 270 Translucent Roof.

For the 270 Translucent Roof allow clearance of 120mm.

Exact clearances are shown on individual spec sheets in this Design Manual.



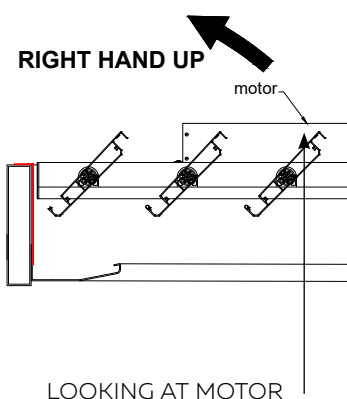
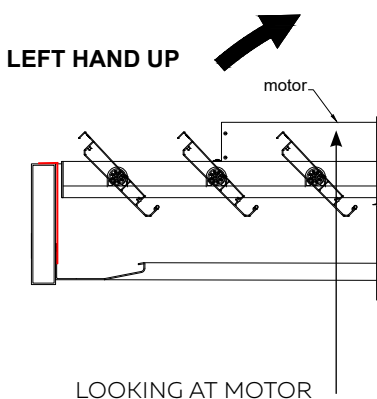
SECTION THROUGH LOUVRES



## DETAILS AT A GLANCE

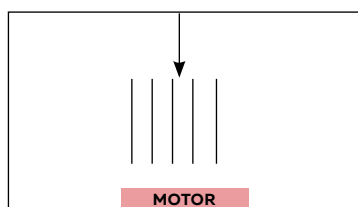
### Specifying direction of blade pivot

Determine which direction the Louvretec Spiral Pivot system opens the blades. Direction of left hand or right hand up is as viewed when looking at the motor.

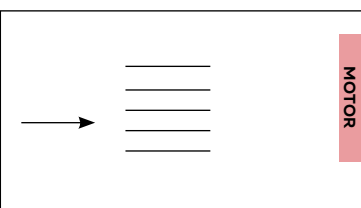
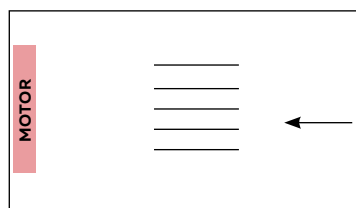
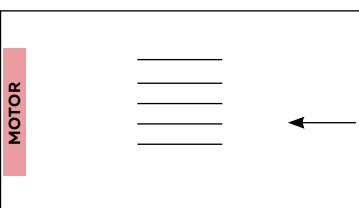
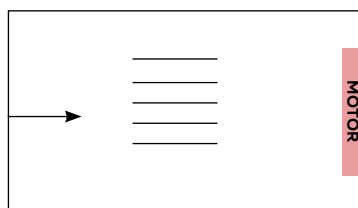
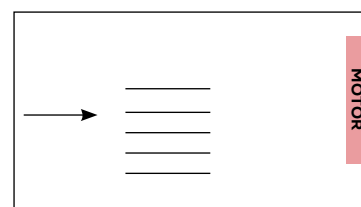
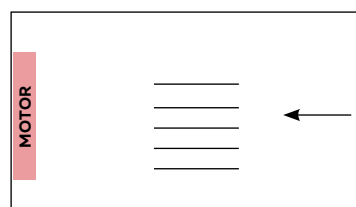
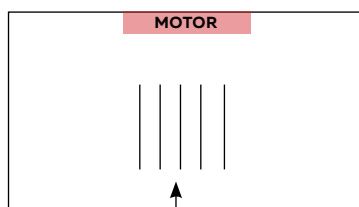


## DIFFERENT CONFIGURATIONS

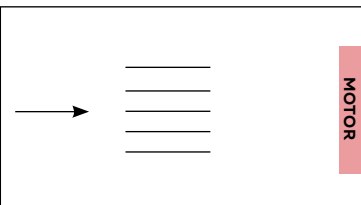
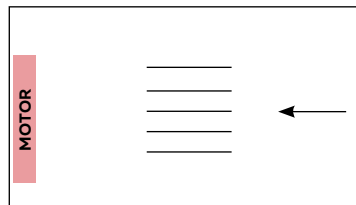
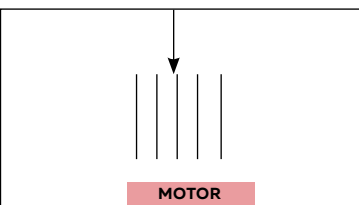
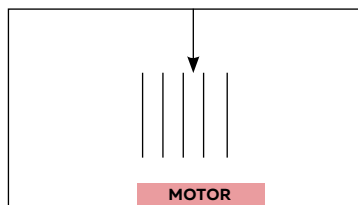
The same rule applies - determine which direction the Louvretec Spiral Pivot system opens the blades. Direction of left hand or right hand up is as viewed when looking at the motor.



SINGLE PANEL



DOUBLE OR MULTIPLE PANELS



### STANDARD OPTION

Motor Over is the Standard Option.

If Downunder is preferred specify as the Option.

### ADD ON

Rain sensor available on all motorised Opening roofs - our most requested option.





DURABILITY AT ITS BEST



DESIGNED FOR COASTAL LIVING

## THE LOUVRETEC STRUCTURAL FRAME

Post and Beam sizes determined by wind and loading

Refer to relevant design information for your project;  
Section 13 | Engineering/Engineering Reports.

- The post and beam sizes are calculated and determined by wind speeds with loading factors applied to allow for uplift, down pressure and deflection.
- Please refer to Section 13 | Engineering for full engineering and design data.
- For any queries please contact your nearest Louvretec Dealer.



FREE STANDING OPTION SHOWN



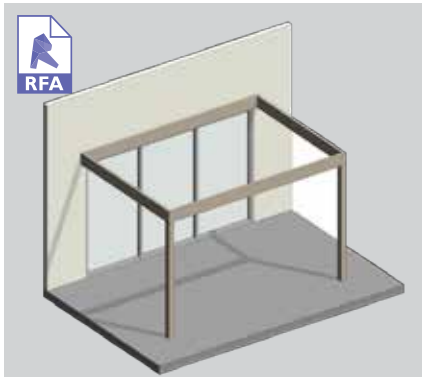
BEAM SIZES



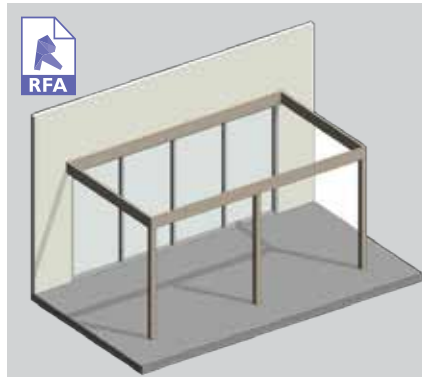
## THE LOUVRETEC STRUCTURAL FRAME

Engineered aluminium frame for Opening Roofs

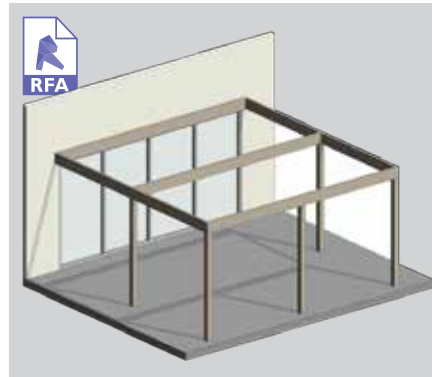
- Louvretec offers a fully engineered Structural Aluminium Frame system designed specifically for Opening Roofs and Outdoor Rooms.
- Beams and posts are custom designed to be structurally compliant to the specific wind zone.
- Louvretec Structural Frames provide for clean, aesthetically pleasing lines and with regular cleaning, are virtually maintenance free.
- Louvretec Structural Frames can incorporate wall infills such as Outdoor Blinds, Slidetec Frameless Glass Sliding Doors as well as a range of Louvre Panel infills.
- REFER TO SECTION 4: LOUVRETEC STRUCTURAL FRAME FOR MORE INFO



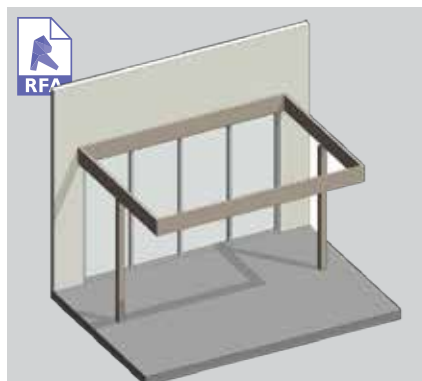
SIMPLY SUPPORTED



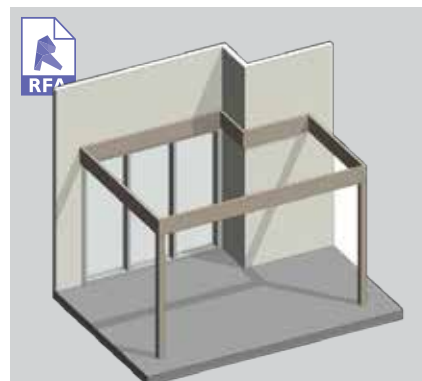
LENGTH EXTENDED - CONTINUOUS SPAN



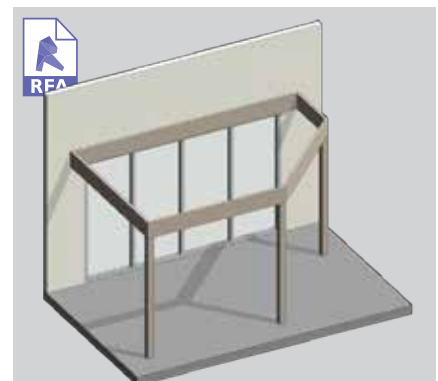
WIDTH EXTENDED



CANTILEVERED FRAME



STEPPED FRAME



RAKING FRAME



180/30 SLIMLINE  
ROOF  
PG 2.19



200/35 SLIMLINE  
ROOF  
PG 2.23



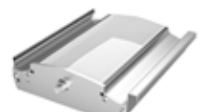
220/35 SLIMLINE ROOF  
(RETRACT COMPATIBLE)  
PG 2.27



220/45 ALPINE ROOF  
(RETRACT COMPATIBLE)  
PG 2.31



200 SUBURBAN  
PG 2.35 &  
SUBURBAN SOLAR PG 2.14



270 TRANSLUCENT  
ROOF  
PG 2.39





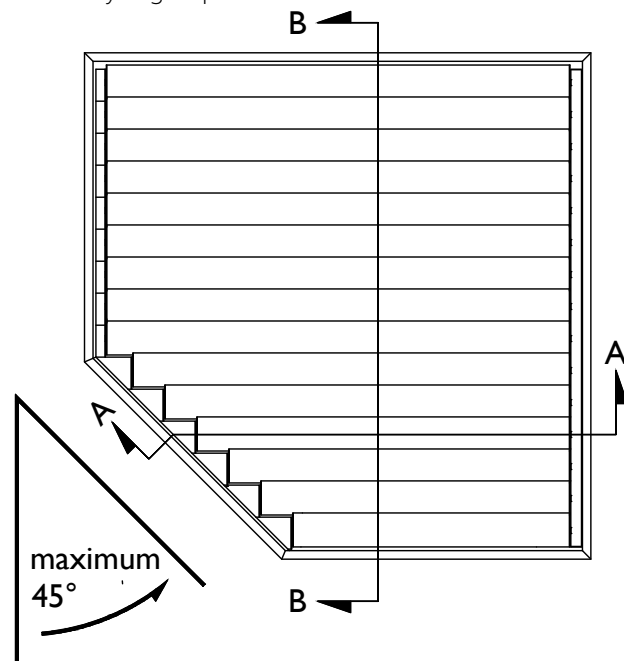
## OPENING ROOFS - RAKING FRAMES

### Customised outdoor spaces

No matter the shape, a Louvretec Raking Outdoor Roof can be designed to fit to any angle up to 45°.



PLAN VIEW



RAKING ROOF



## OFF THE GRID

### Solar Powered Spiral Pivot Opening Roofs New Technology



Using the very latest solar energy technology, Louvretec introduces our first solar powered Opening Roof option.

No power connection required, the quiet solar powered motor can be controlled by a wireless handheld remote or by a Smart Home solution.

Incorporated within the solar panel is a powerful battery with a 45-day life cycle based on two open/close cycles per day.

Specific algorithms for power management allow for battery charging without direct sunlight.

Innovative, efficient, clean & quiet – presenting Louvretec Solar.



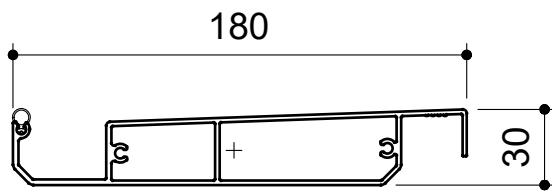
SOLAR POWERED OPENING ROOF



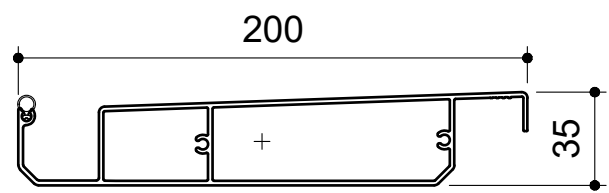
FREESTANDING, SOLAR POWERED OPENING ROOF



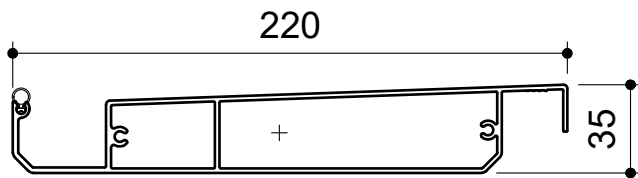
# TYPICAL DETAIL: LOUVRETEC RANGE OF OPENING ROOFS AND GUTTER OPTIONS



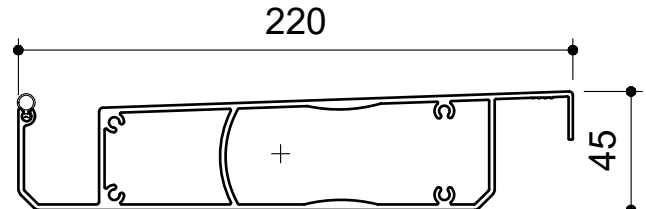
180/30 SLIMLINE ROOF



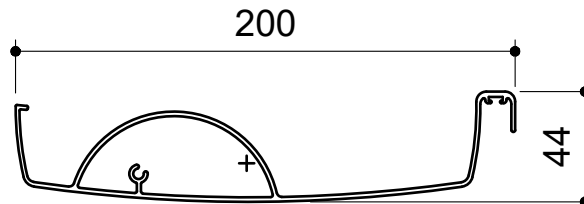
200/35 SLIMLINE ROOF



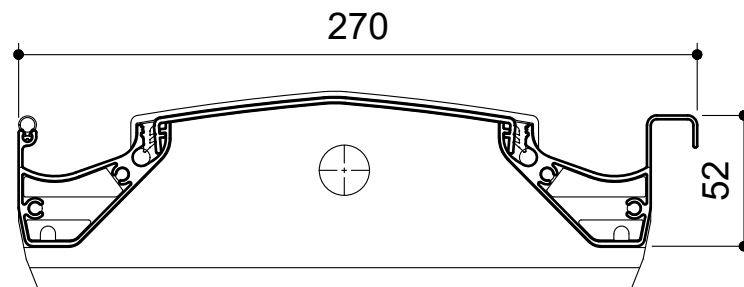
220/35 SLIMLINE ROOF



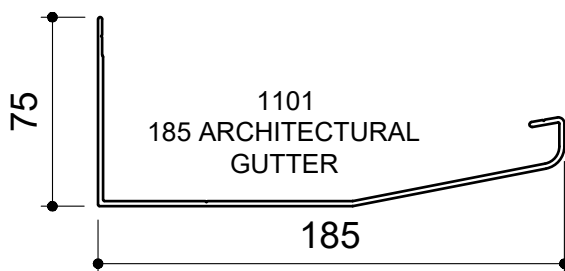
220/45 ALPINE ROOF



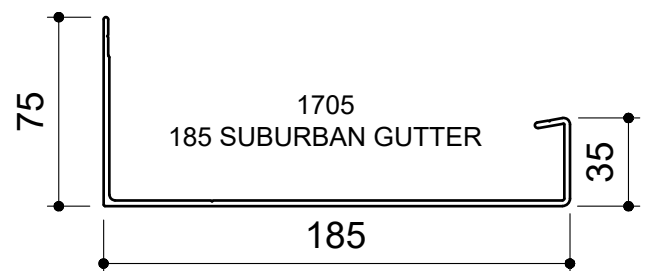
200 SUBURBAN ROOF



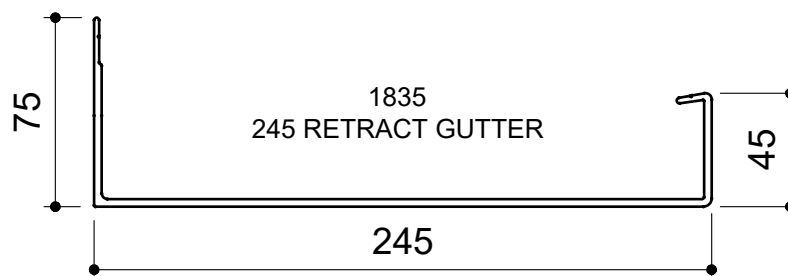
270 TRANSLUCENT ROOF



1101  
185 ARCHITECTURAL  
GUTTER

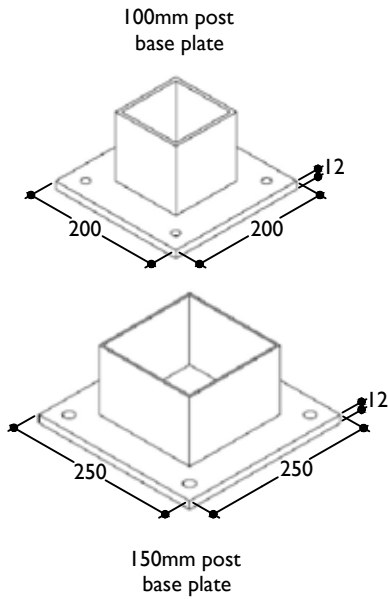
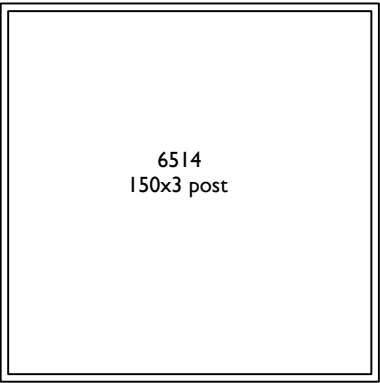
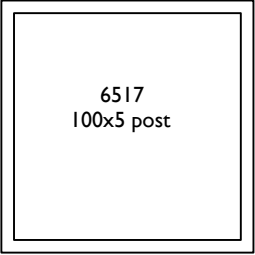
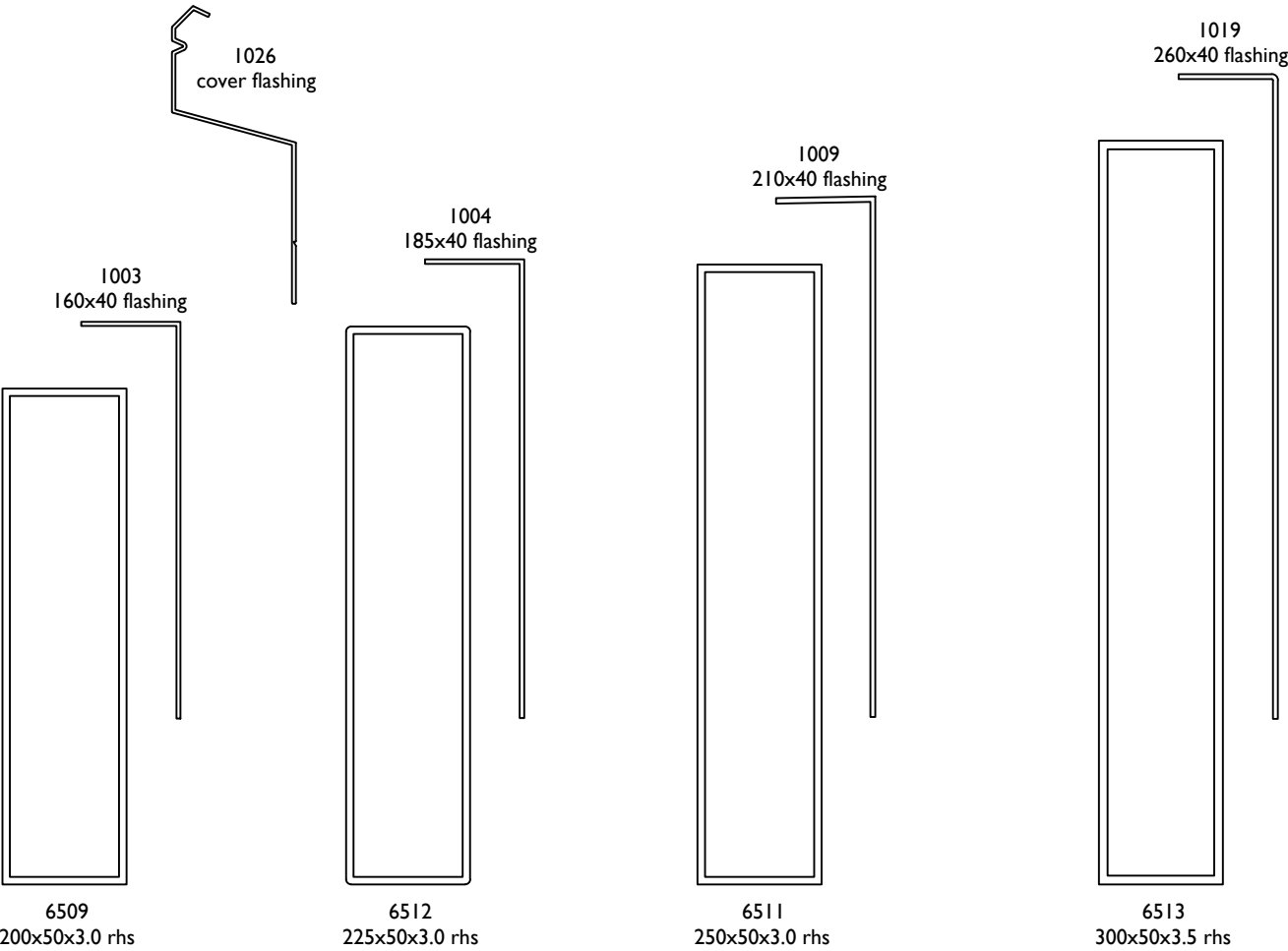


1705  
185 SUBURBAN GUTTER



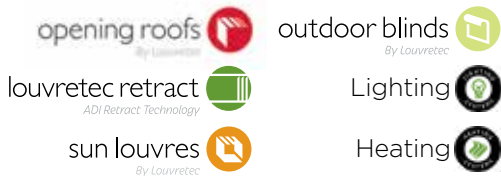
1835  
245 RETRACT GUTTER

TYPICAL DETAIL : LOUVRETEC RANGE OF BOX SECTION FRAMES, POSTS & FLASHING

















### Key: Remote Compatibility



## REMOTE CONTROL OPTIONS FOR OPENING ROOFS & OTHER LOUVRETEC MOTORISED PRODUCTS

### Remote options


Louvretec's Remote Control options can manage a single Opening Roof or up to 16 Motorised Louvretec products. Remote Control technology is constantly changing and upgrading. Please discuss with your Dealer.











<b>Situo 1 &amp; Smoove 1 Wall Switch</b> The Situo 1 Remote by Somfy is a one-channel handheld remote using Radio Technology Somfy (RTS). Smoove is a wireless wall mounted switch providing the same functionality as a remote. Perfect for controlling a single Opening Roof.	 
<b>Situo 5 &amp; Smoove 4 Wall Switch</b> The Situo 5 by Somfy is a five-channel handheld remote using Radio Technology Somfy (RTS). Perfect for controlling a group of motorised Louvretec products (excluding the Retract Roof). Smoove 4 is a wireless wall switch providing the same functionality as a remote but with 4 channels. With the addition of the BST11 Bridge, both remotes can control Lighting and Heating.	 
<b>Telis 16</b> The Telis 16 is a 16-channel handheld remote using Radio Technology Somfy (RTS). Made to control a larger group of motorised Louvretec products (excluding the Retract Roof). The addition of a BST 11 Bridge allows this remote to control Lighting & Heating.	 
<b>Noon Duo</b> The Noon Duo is a 9-channel handheld remote. The Noon Duo allows control for Louvretec Retract Roofs, Lighting and Heating.	 
<b>Daisy App</b> Daisy is an app by Teleco that allows the control of Louvretec Retract Roofs, Lighting and Heating. Download the free app and install a Daisy Box which communicates with your devices via radio signal.	 
<b>Solar Powered</b> No power connection required, the solar powered motor can be controlled by a wireless handheld remote or a Smart Home solution. Battery has a 45-day life cycle based on two open/close cycles/ day. Algorithms for power management allow for battery charging without direct sunlight.	  <p>SOLAR POWER OPTION FOR SPIRAL PIVOT OPENING ROOFS</p>

# REMOTE CONTROL OPTIONS FOR OPENING ROOFS & OTHER LOUVRETEC MOTORISED PRODUCTS

## Remote options

Hard Wired Switch options are available for your Motorised Opening Roofs & other Motorised Louvretec products.

Key: Remote Compatibility	
 opening roofs <small>By Louvretec</small>	 outdoor blinds <small>By Louvretec</small>
 louvretect retract <small>ADI Retract Technology</small>	 Lighting
 sun louvres <small>By Louvretec</small>	 Heating

<b>Connexoon</b> Connexoon is an app by Somfy that allows the control of Louvretec Opening Roofs from your device. The addition of a BST 11 Bridge also allows control of Louvretec Lighting & Heating. Download the app & install the RTS Box (plugs in to your router & wall socket) which communicates with your devices via signal.	  <p>BST 11 BRIDGE &amp; CONNEXOON APP BY SOMFY</p>
<b>Tahoma</b> Tahoma by Somfy is the central hub that connects and controls the smart home ecosystem. Convenient, intuitive & easy to configure across a wide range of smart home systems.	  <p>TAHOMA CENTRAL HUB</p>
<b>BMS</b> A Building Management System (BMS) is a pad from which you can manage a home's shading, heating, cooling, ventilation & lighting controls. Louvretec Opening Roofs can be integrated into a home or building's BMS. Retract Roof, Heating & Lighting can be integrated via an RS232 Transmitter.	  <p>BUILDING MANAGEMENT SYSTEM (BMS)</p>
<b>Hard Wired Switch</b> A Somfy Hard Wired Switch provides control of a motorised Opening Roof via a 230v wall switch wired directly to the motor.	  <p>SOMFY SWITCH FOR AN OPENING ROOF</p>
<b>Wall Mounted Remote</b> A Teleco Wall Mounted Remote provides control of a single Retract Roof, LED Lights, or a Dimmable Heater.	  <p>TELECO WALL MOUNTED REMOTE FOR A RETRACT ROOF</p>

## RAIN SENSOR OPTION

### Teleco Wired Rain102H

The Rain102H by Teleco Rain Sensor can be programmed to automatically close the Louvres & includes integrated heating function for preventing false activation in case of ice and snow.





## 180/30 SLIMLINE ROOF

The smallest Roof in the Slimline series

This Roof replaces the original 180 Linear and 180 Classic Opening Roofs.

The modern Slimline styling works particularly well with the narrower 180mm wide blade, and is an ideal choice for smaller spanning Opening Roofs.

### Key Features

- Sleek, functional design, clean and uncluttered when open or closed
- Design strength of an extruded double box-section
- Somfy powered or hand-operated award winning Spiral Pivot operating system
- "Cushion Closing" onto a bulb seal strip
- Increased closing cover angle for added weather protection
- Larger blade gutter incorporated for extra storm-water dispersal



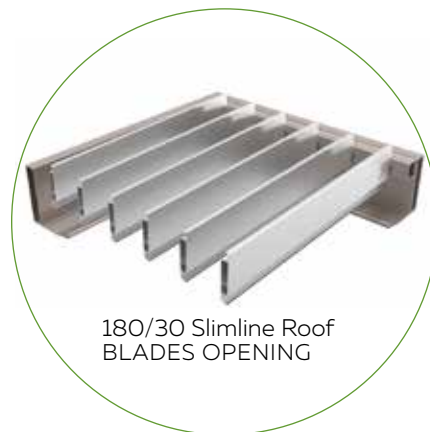
PURPOSE BUILT OUTDOOR LIVING AREA  
BY LOUVRETEC AUCKLAND



180/30 SLIMLINE BLADE



180/30 Slimline Roof  
BLADES CLOSED



180/30 Slimline Roof  
BLADES OPENING

### MOTORISED OR HAND OPERATED

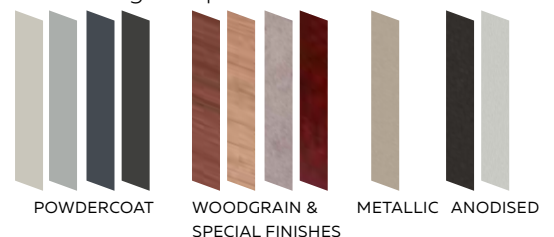
Controller and  
Sensor Options  
Refer Pages

2.17 - 2.18  
for range of options



### SURFACE FINISHING OPTIONS

A wide range of options are available.

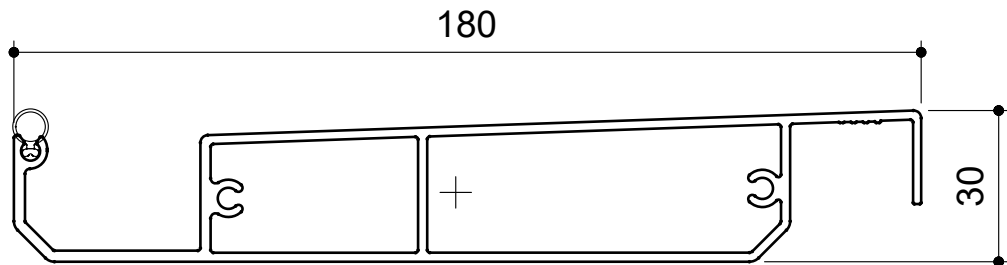




OPENING ROOFS 180/30 SLIMLINE ROOF BLADE SPECIFICATIONS



BLADE SPECIFICATIONS 180/30 SLIMLINE ROOF



NTS

BLADE SPECIFICATIONS			
Blade cover - opening system	169 mm	Weight per linear metre - opening system	1.93 kg/lm
Weight per square metre - opening system	11.41 kg/sqm	Actual blade width	180 mm
Blade centres - opening system	169 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s	37m/s	44 m/s	50 m/s	55 m/s
		115 km/hr	133 km/hr	158 km/hr	179 km/hr	198 km/hr
180/30 Slimline Roof <b>3m Height</b>	4500	4500	4500	4250	3700	3350
180/30 Slimline Roof <b>6m Height</b>		4500	4500	3800	3300	3000

INSTALLATION OPTIONS



CALCULATE OPTIMUM FRAME  
OPENING SIZES FOR SPIRAL PIVOT

Span: Check engineering span limits  
Pivot: Calculation example showing 17 blades

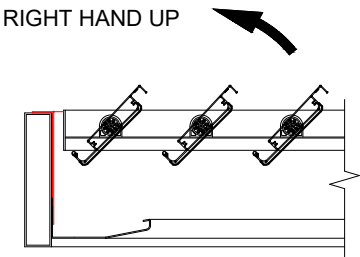
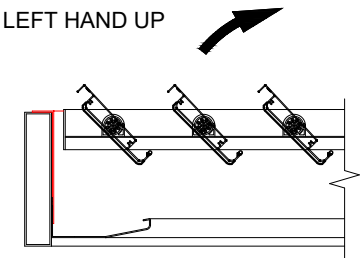
STEP 1

16 blades x 169 Crs	2704
1 blade at 180 (blade size)	+ 180
17 blades	=2884

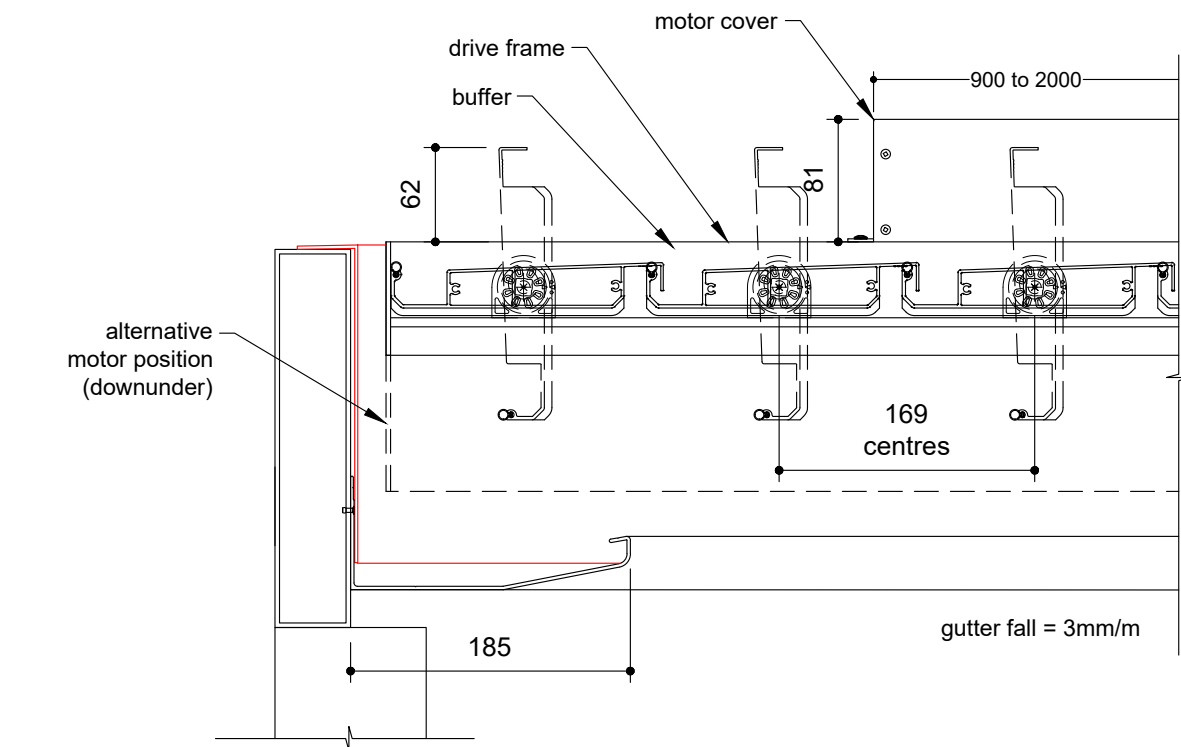
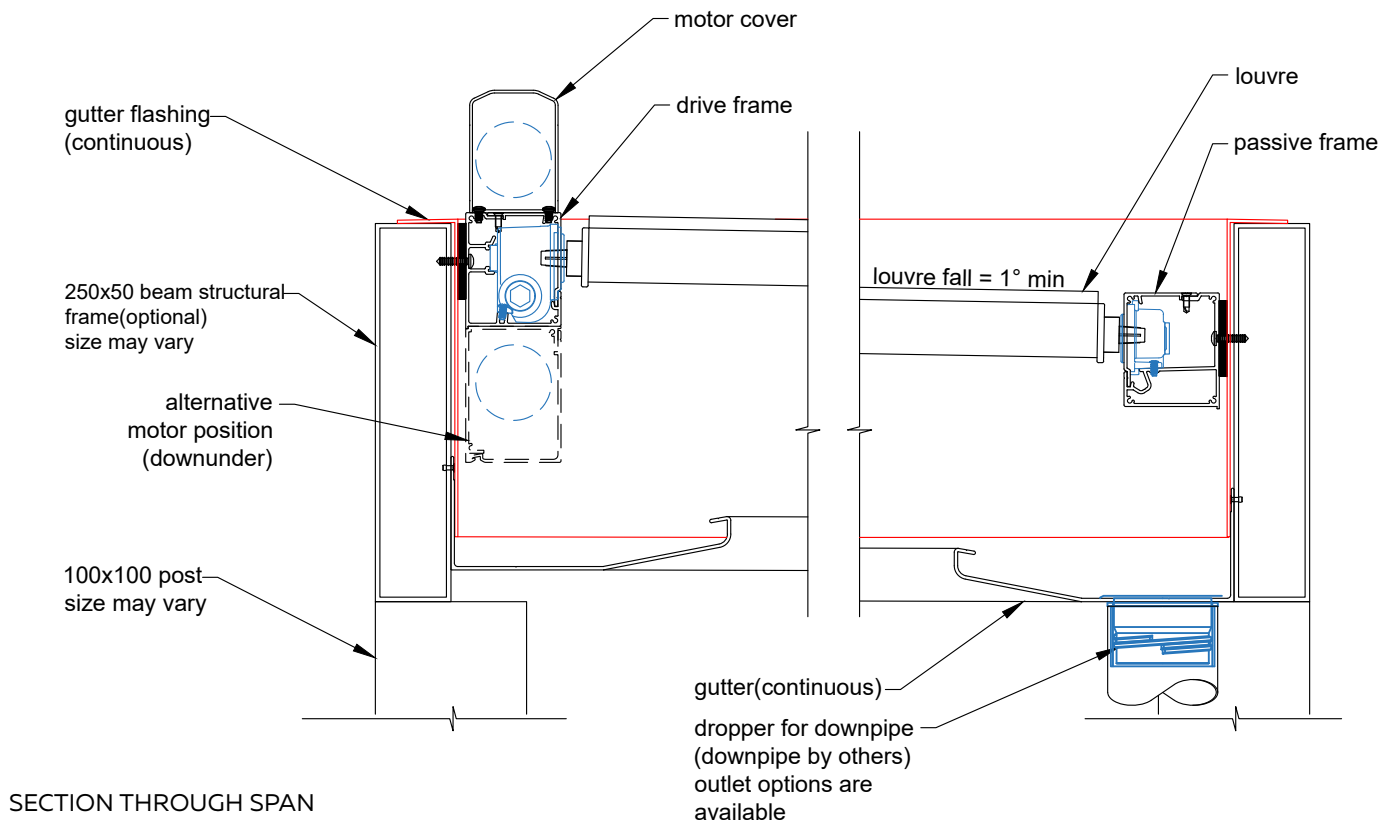
STEP 2

Blade cover	2884
+2/22mm clearance @ ends	=44
Total exact pivot length	=2928
Extra width 185mm gutter provides cover if clearance increases over 22mm at ends.	
Blade direction either Right Hand up or Left Hand up.	

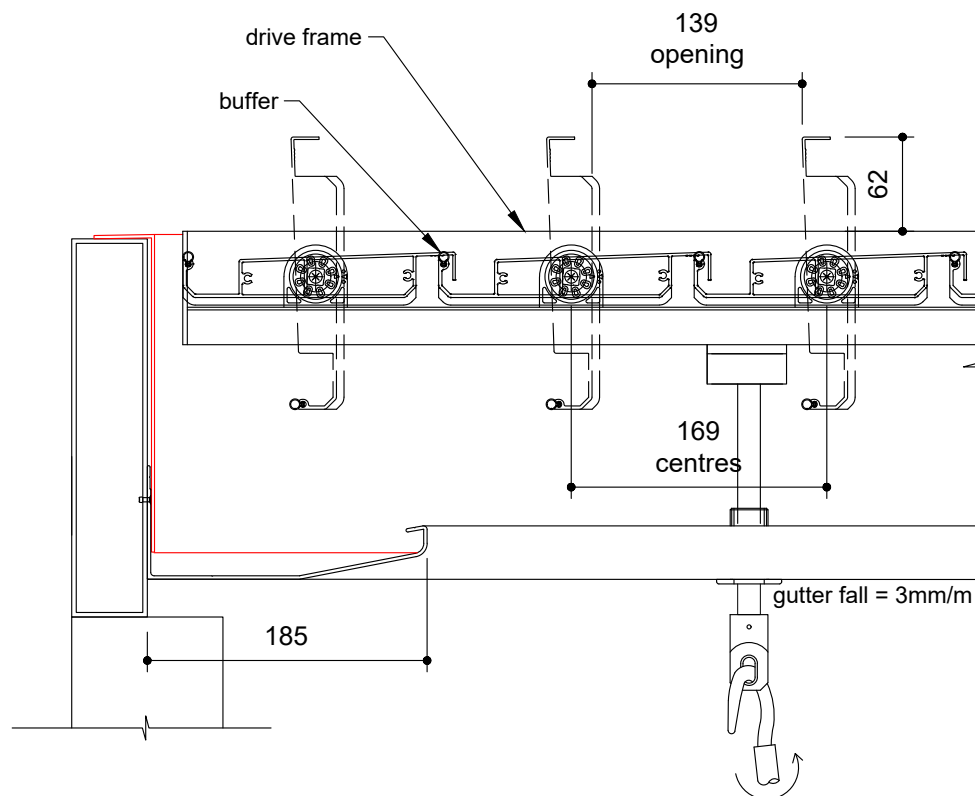
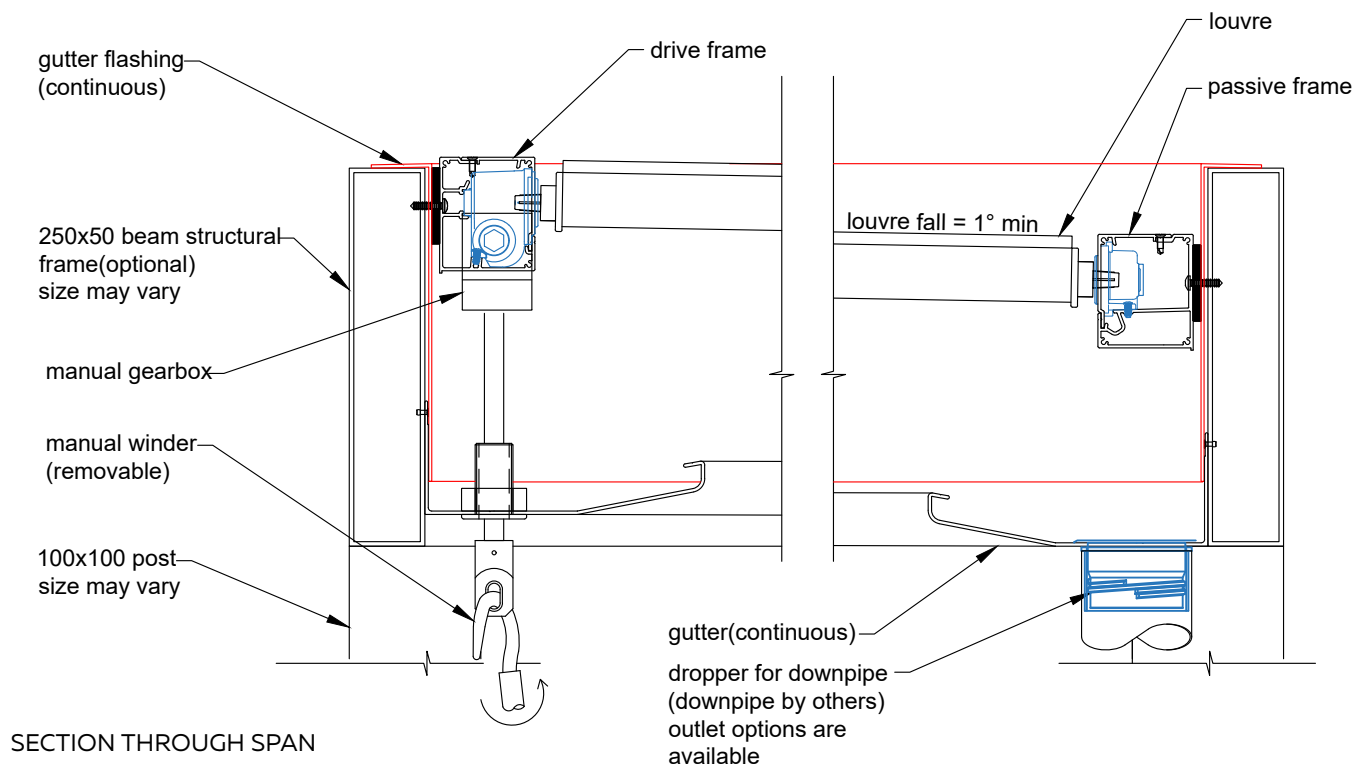
CHOOSE DIRECTION OF BLADE PIVOT



**TYPICAL DETAIL: MOTORISED 180/30 SLIMLINE ROOF  
WITHIN LOUVRETEC STRUCTURAL FRAME**



**TYPICAL DETAIL : MANUAL 180/30 SLIMLINE ROOF  
WITHIN LOUVRETEC STRUCTURAL FRAME**



SECTION THROUGH LOUVRES





## 200/35 SLIMLINE ROOF

### A Handy 200mm Wide Opening Roof Louvre Blade

Since its release, the 200/35 Slimline Roof Opening Roof is a popular option that features a 200mm wide design.

The sleek, clean modern design provides excellent spanning capacity for the majority of residential installations.

### Key Features

- Sleek, functional design, clean and uncluttered when open or closed
- Design strength of an extruded double box-section
- Somfy powered or hand-operated award winning Spiral Pivot operating system
- "Cushion Closing" onto an external sun-resistant PVC bulb seal
- Increased closing cover angle for added weather protection
- Larger blade gutter incorporated for extra stormwater dispersal



CONTROLLABLE OUTDOOR LIVING SPACE CREATION. BY LOUVRETEC AUCKLAND



200/35 SLIMLINE BLADE



200/35 SLIMLINE ROOF BLADES CLOSED



200/35 SLIMLINE ROOF BLADES OPENING

### MOTORISED OR HAND OPERATED

Controller and Sensor Options  
Refer Pages 2.17 - 2.18  
for range of options



### SURFACE FINISHING OPTIONS

A wide range of options are available.



POWDERCOAT

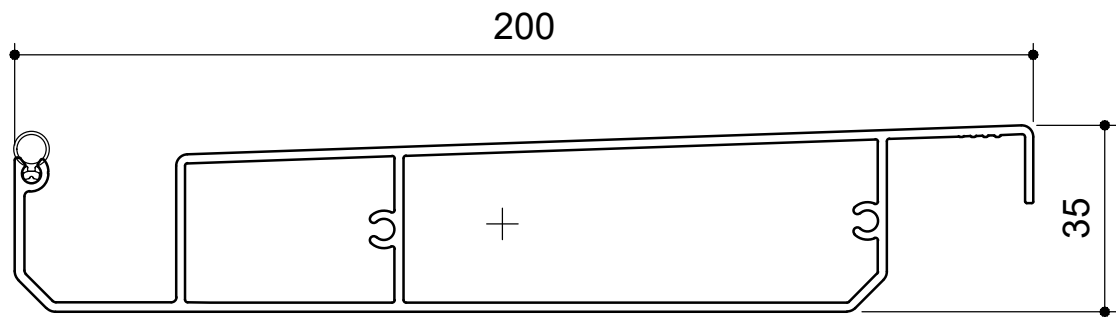
WOODGRAIN & SPECIAL FINISHES

METALLIC ANODISED

OPENING ROOFS SPECIFICATIONS



BLADE SPECIFICATIONS 200/35 SLIMLINE ROOF



NTS

BLADE SPECIFICATIONS			
Blade cover - opening system	188 mm	Weight per linear metre - opening system	2.431 kg/lm
Weight per square metre - opening system	12.9 kg/sqm	Actual blade width	200 mm
Blade centres - opening system	188 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s	37m/s	44 m/s	50 m/s	55 m/s
		115km/hr	133 km/hr	158 km/hr	179 km/hr	198 km/hr
200/35 Slimline Roof <b>3m Height</b>	4500	4500	4500	4500	4300	4000
200/35 Slimline Roof <b>6m Height</b>		4500	4500	4400	4000	3800

INSTALLATION OPTIONS



CALCULATE OPTIMUM FRAME  
OPENING SIZES FOR SPIRAL PIVOT

Span: Check engineering span limits  
Pivot: Calculation example showing 17 blades

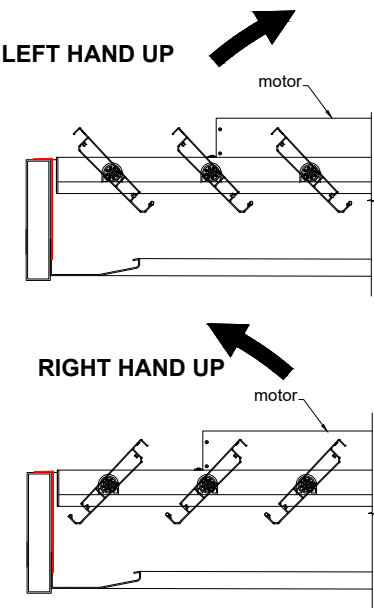
STEP 1

16 blades x 188 Crs	3008
1 blade at 200 (blade size)	+ 200
17 blades	=3208

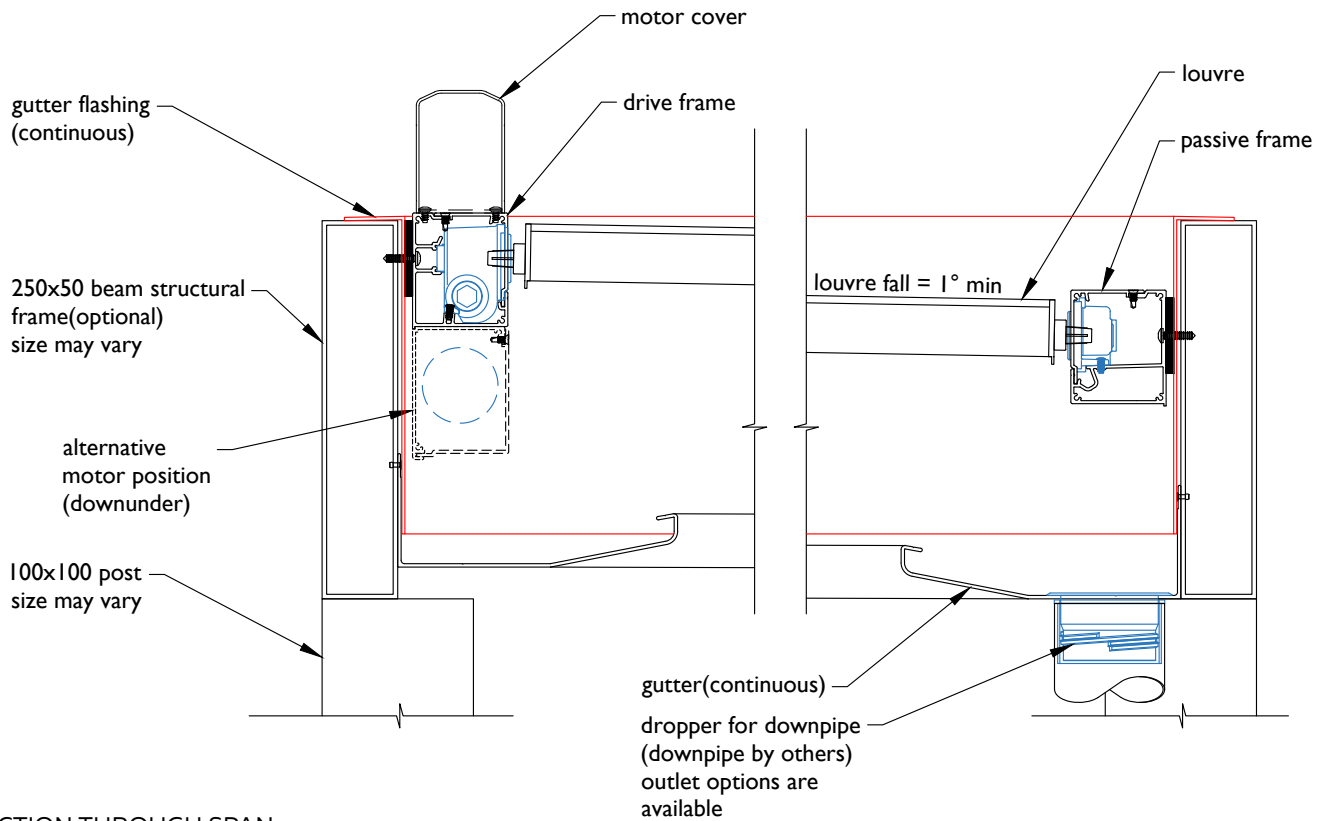
STEP 2

Blade cover	3208
+2/22mm clearance @ ends	+ 44
Total exact pivot length	= 3252
Extra width 185mm gutter provides cover if clearance increases over 22mm at ends.	
Blade direction either Right Hand up or Left Hand up.	

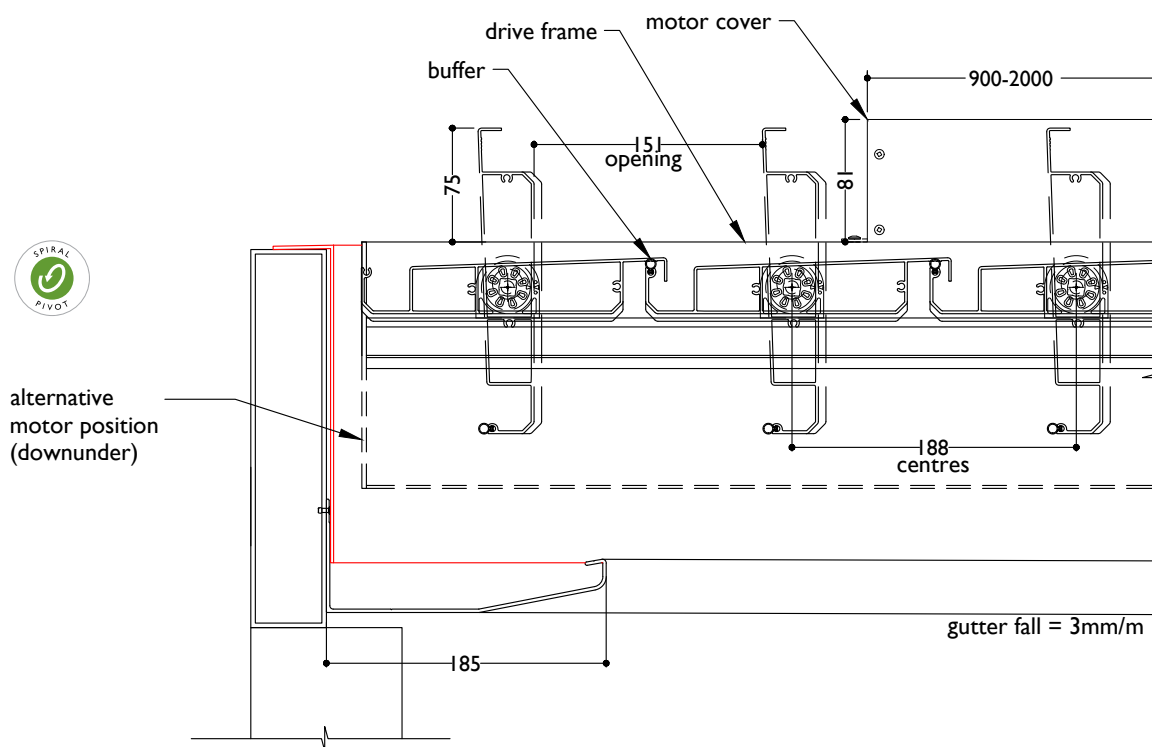
CHOOSE DIRECTION OF BLADE PIVOT



# TYPICAL DETAIL: MOTORISED 200/35 SLIMLINE ROOF WITHIN LOUVRETEC STRUCTURAL FRAME



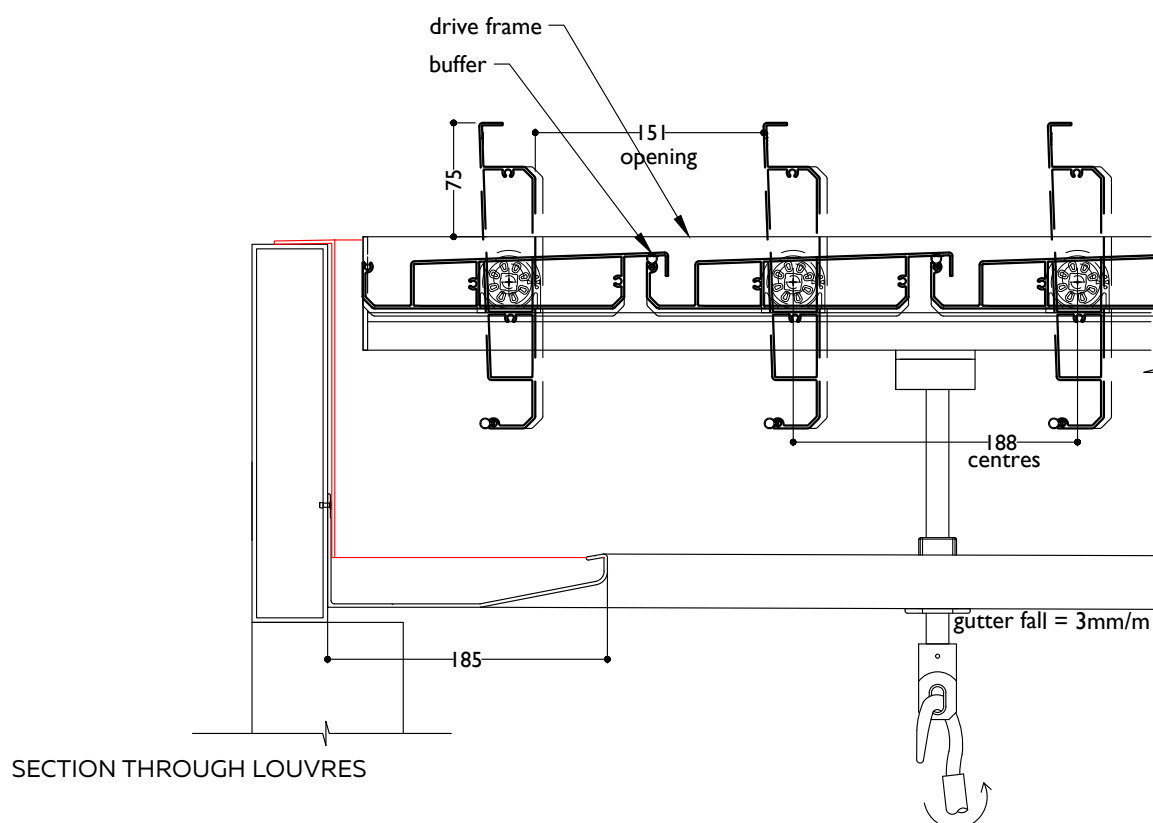
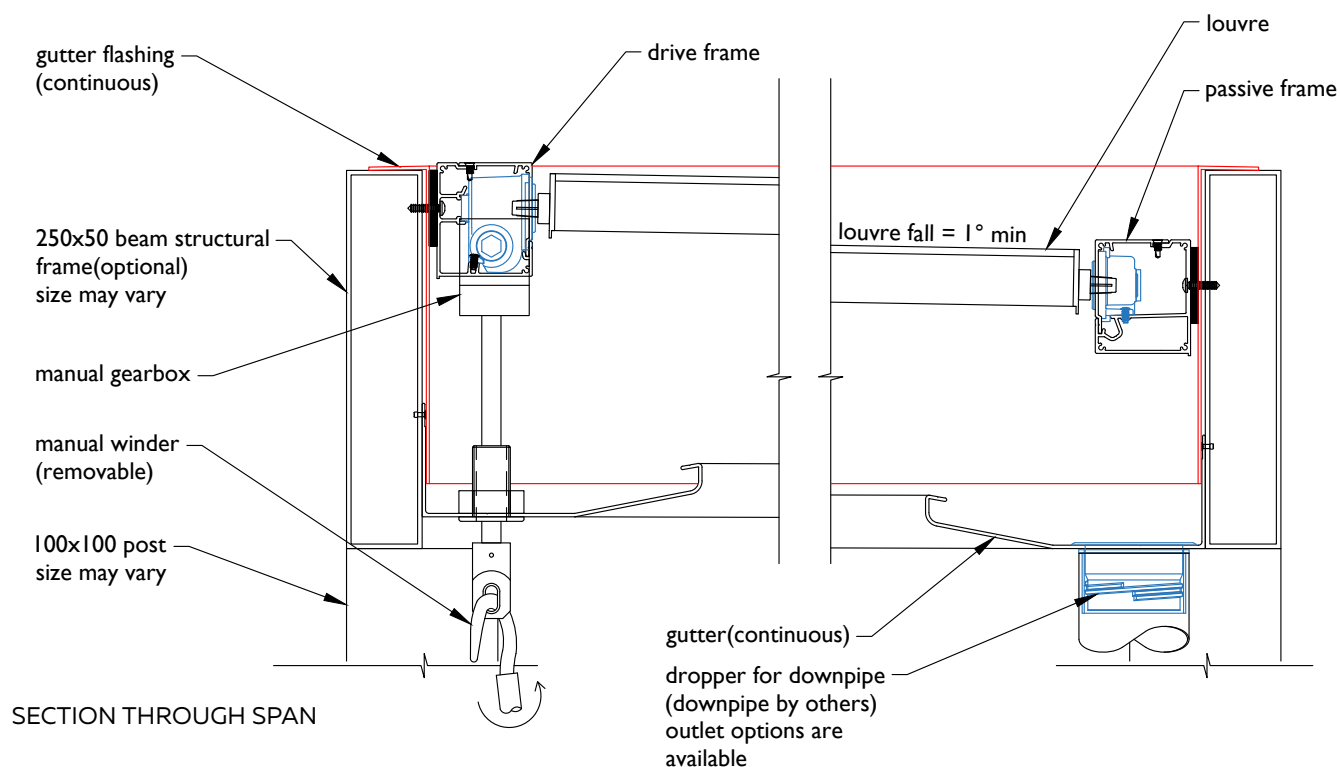
SECTION THROUGH SPAN



SECTION THROUGH LOUVRES



**TYPICAL DETAIL : MANUAL 200/35 SLIMLINE ROOF  
WITHIN LOUVRETEC STRUCTURAL FRAME**





## 220/35 SLIMLINE ROOF

A Multi-purpose Louvre blade compatible as a Standard Spiral Pivot Roof as well as a Retract

Perfect for most Installations

The multi-purpose 220/35 Slimline Opening/Retract Roof replaces the 200 Super Roof Lite, and we believe it will be our most used system.

The sleek, clean modern design provides excellent spanning capacity for the majority of residential installations.

### Key Features

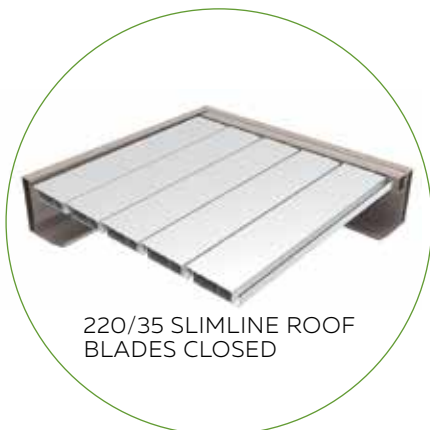
- Sleek, functional design, clean and uncluttered when open or closed
- Design strength of an extruded double box-section
- Somfy powered or hand-operated award winning Spiral Pivot operating system
- "Cushion Closing" onto an external sun-resistant PVC bulb seal
- Increased closing cover angle for added weather protection
- Larger blade gutter incorporated for extra stormwater dispersal



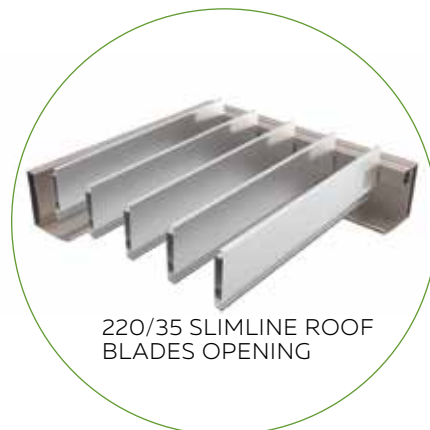
EXTEND YOUR OUTDOOR ADVENTURES LONG INTO THE EVENING.  
BY LOUVRETEC SYDNEY NORTH | NEWCASTLE



220/35 SLIMLINE ROOF BLADE  
Available Spiral Pivot or Retract



220/35 SLIMLINE ROOF  
BLADES CLOSED



220/35 SLIMLINE ROOF  
BLADES OPENING

### MOTORISED OR HAND OPERATED

Controller and  
Sensor Options  
Refer Pages  
2.17 - 2.18  
for range of options



### SURFACE FINISHING OPTIONS

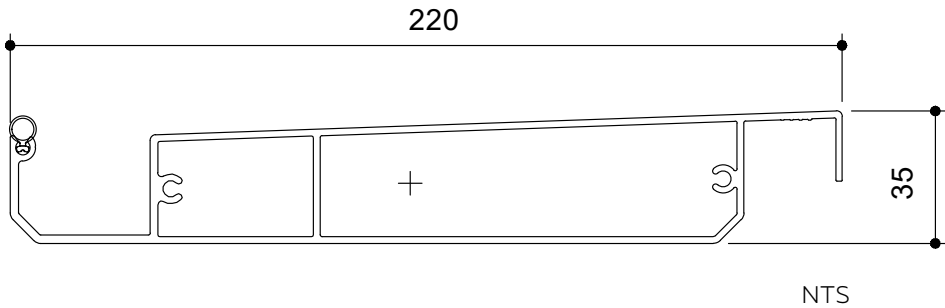
A wide range of options are available.



OPENING ROOFS SPECIFICATIONS



BLADE SPECIFICATIONS 220/35 SLIMLINE ROOF  
(RETRACT COMPATIBLE)



BLADE SPECIFICATIONS			
Blade cover - opening system	205 mm	Weight per linear metre - opening system	2.655 kg/lm
Weight per square metre - opening system	12.9 kg/sqm	Actual blade width	220 mm
Blade centres - opening system	205 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s	37m/s	44 m/s	50 m/s	55 m/s
		115 km/hr	133 km/hr	158 km/hr	179 km/hr	198 km/hr
220/35 Slimline Roof <b>3m Height</b>	4300	4300	4300	4200	4000	3500
220/35 Slimline Roof <b>6m Height</b>		4300	4300	4050	3500	3150

INSTALLATION OPTIONS

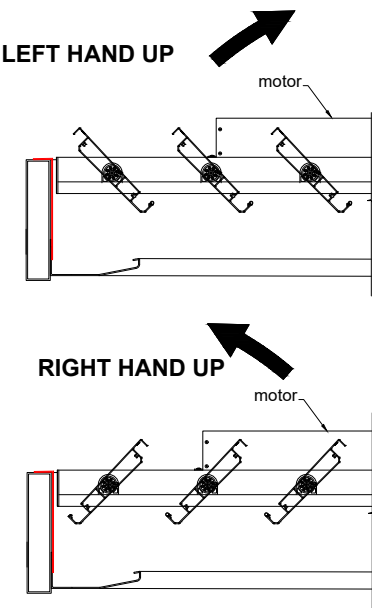


CALCULATE OPTIMUM FRAME  
OPENING SIZES FOR SPIRAL PIVOT  
Span: Check engineering span limits  
Pivot: Calculation example showing 17 blades

STEP 1	
16 blades x 205 Crs	3280
1 blade at 220 (blade size)	+ 220
17 blades	=3500

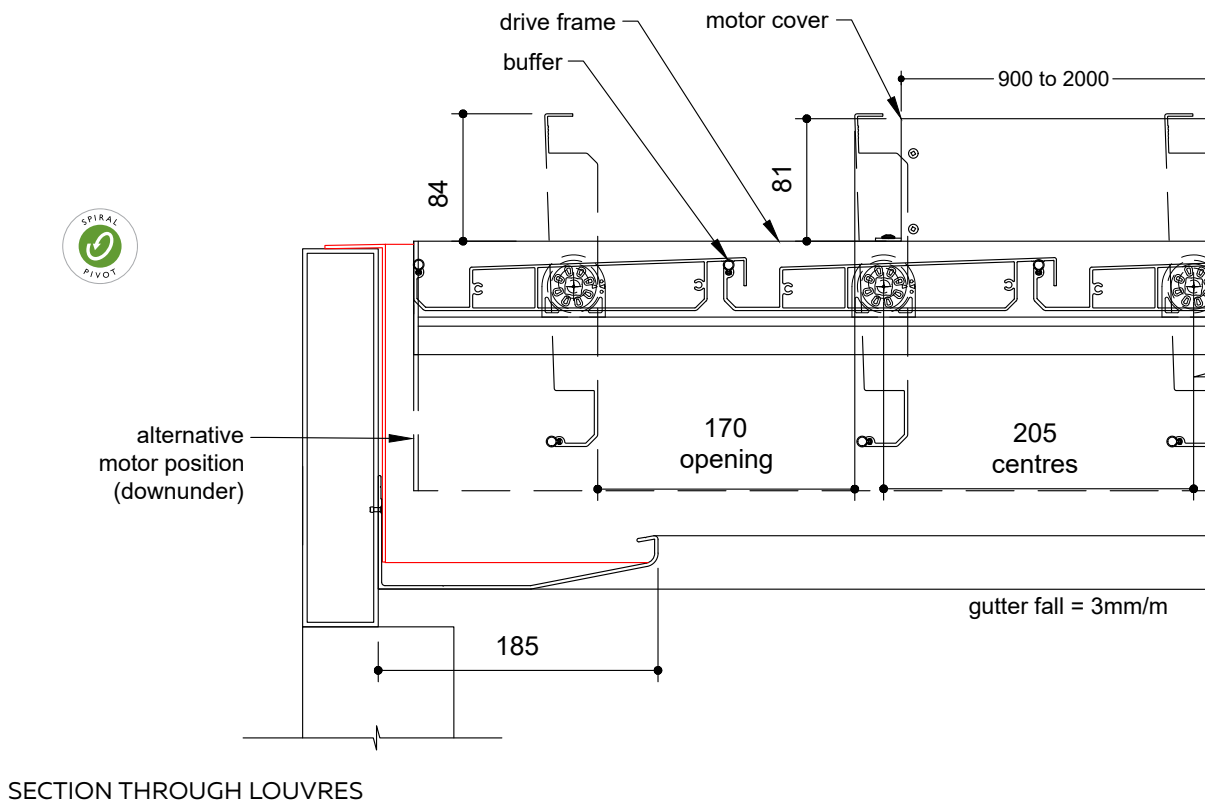
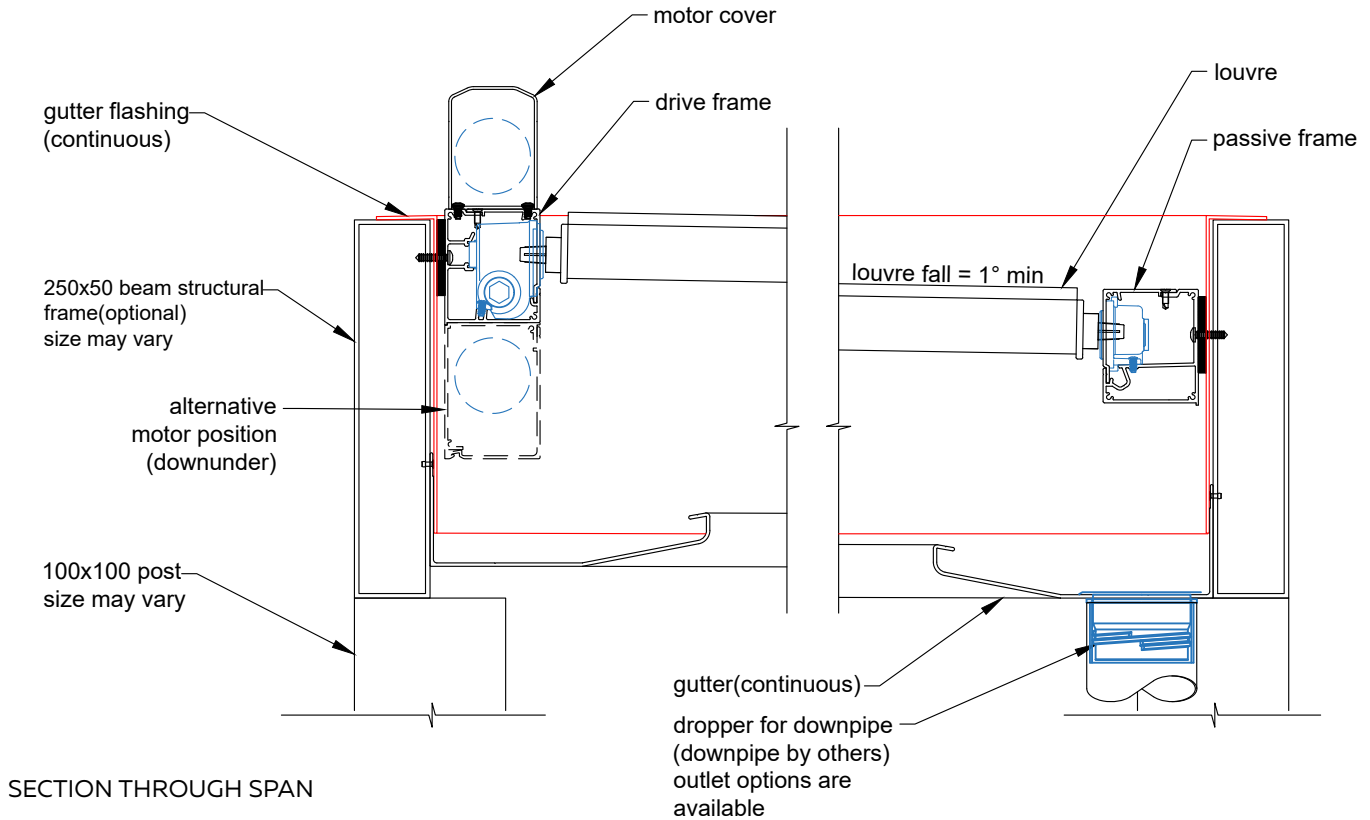
STEP 2	
Blade cover	3500
+2/22mm clearance @ ends	=44
Total exact pivot length	=3544
Extra width 185mm gutter provides cover if clearance increases over 22mm at ends.	
Blade direction either Right Hand up or Left Hand up.	

CHOOSE DIRECTION OF BLADE PIVOT





# TYPICAL DETAIL: MOTORISED 220/35 SLIMLINE ROOF WITHIN LOUVRETEC STRUCTURAL FRAME



SCALE: DATE MODIFIED: 01/10/2024 FILE: OPENING ROOFS 2.29

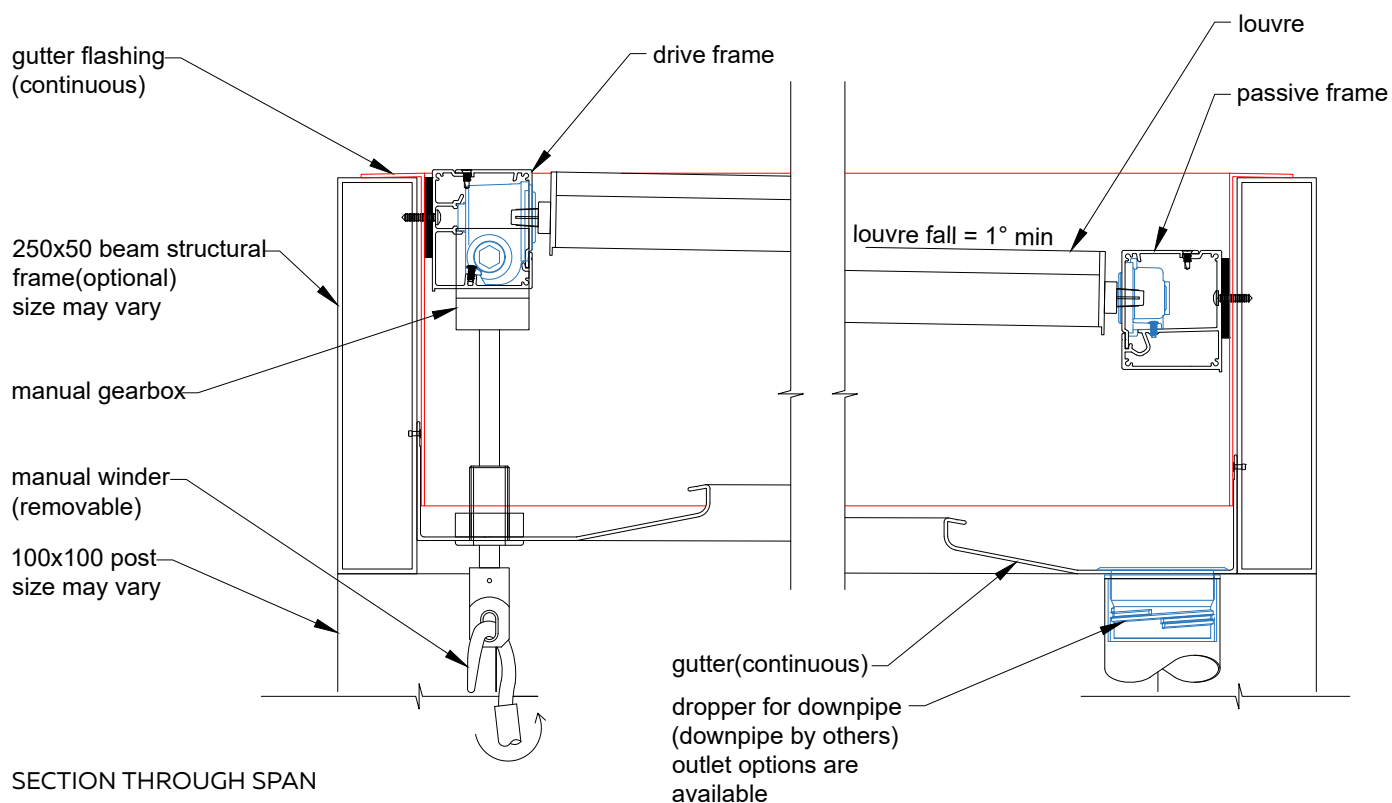
www.louvretec.co.nz www.louvretec.com.au

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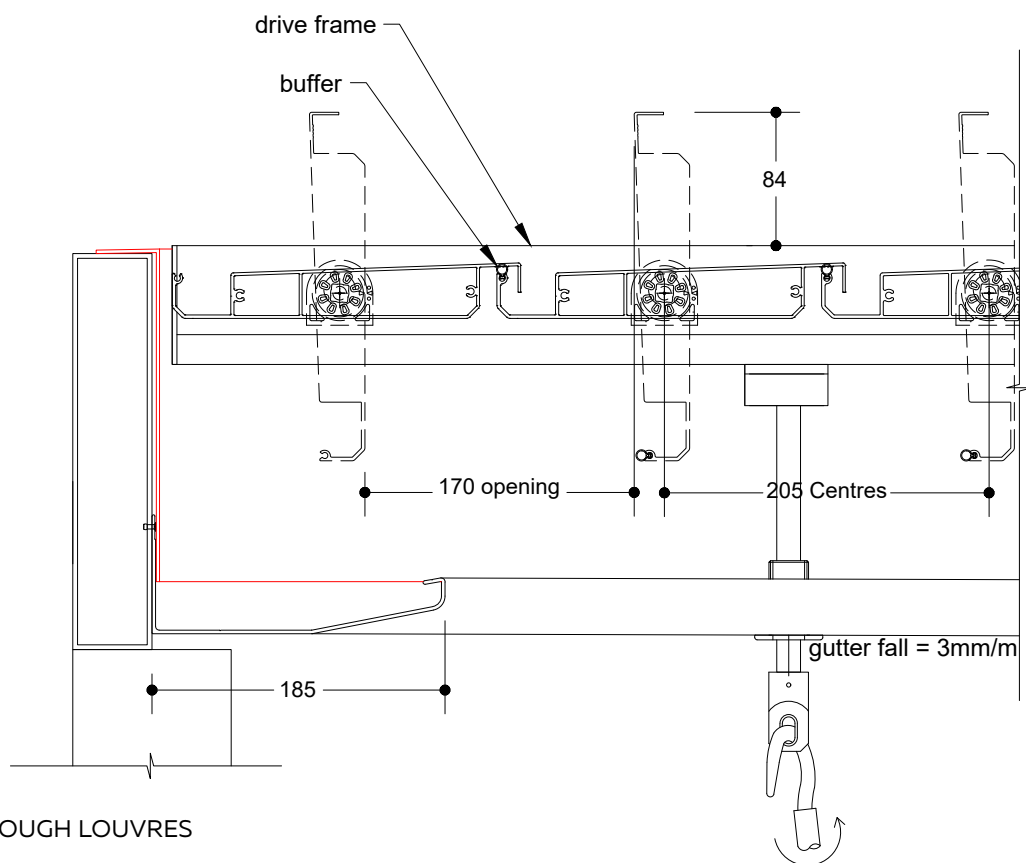
**LouvreTec®**

| 2.29

**TYPICAL DETAIL : MANUAL 220/35 SLIMLINE ROOF  
WITHIN LOUVRETEC STRUCTURAL FRAME**



SECTION THROUGH SPAN



SECTION THROUGH LOUVRES



EVERYTHING HAS A FLOW TO THE OUTDOORS  
BY LOUVRETEC CANTERBURY

## 220/45 ALPINE ROOF

A Multi-purpose Louvre blade compatible as a Standard Spiral Pivot Roof as well as a Retract

For Larger Spans

This Roof replaces the 200 Super Roof Heavy option and is a larger spanning version of the 220/35 Slimline Roof. The 220/45 Alpine Roof leads the way with outstanding spanning capabilities – Ideal for high wind zone and alpine regions.

### Key Features

- Sleek, functional design, clean and uncluttered when open or closed
- Design strength of an extruded double box-section
- Somfy powered or hand-operated award winning Spiral Pivot operating system
- "Cushion Closing" onto an external sun-resistant PVC bulb seal
- Increased closing cover angle for added weather protection
- Larger blade gutter incorporated for extra storm-water dispersal



220/45 ALPINE ROOF BLADE  
Available Spiral Pivot or Retract



- Due to the extended span of this blade, the 220/45 Alpine Louvre has a 20x3 End Cap Connecting Bar fitted below the blade to eliminate any individual blade movement in extreme conditions.

### MOTORISED OR HAND OPERATED

Controller and  
Sensor Options  
Refer Pages  
2.17 – 2.18  
for range of options



### SURFACE FINISHING OPTIONS

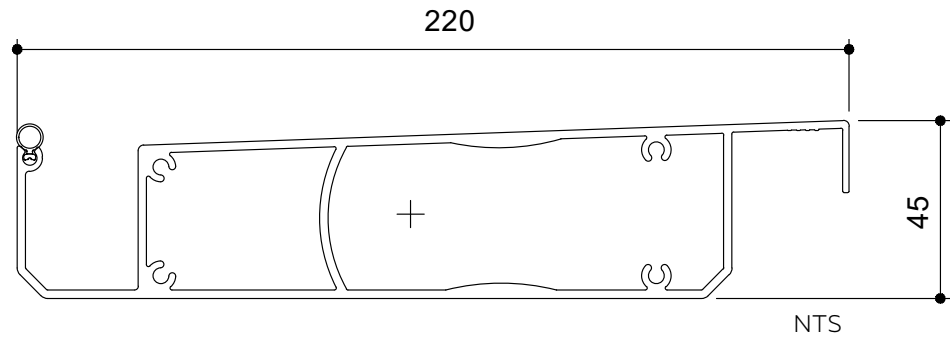
A wide range of options are available.



OPENING ROOFS SPECIFICATIONS



BLADE SPECIFICATIONS 220/45 ALPINE ROOF  
(RETRACT COMPATIBLE)



BLADE SPECIFICATIONS			
Blade cover - opening system	205 mm	Weight per linear metre - opening system	3.74 kg/lm
Weight per square metre - opening system	18.2 kg/sqm	Actual blade width	220 mm
Blade centres - opening system	205 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s	37m/s	44 m/s	50 m/s	55 m/s
		115 km/hr	133 km/hr	158 km/hr	179 km/hr	198 km/hr
220/45 Alpine Roof <b>3m Height</b>	5000	5000	5000	5000	5000	5000
220/45 Alpine Roof <b>6m Height</b>		5000	5000	5000	5000	4700

INSTALLATION OPTIONS



CALCULATE OPTIMUM FRAME  
OPENING SIZES FOR SPIRAL PIVOT

Span: Check engineering span limits  
Pivot: Calculation example showing 17 blades

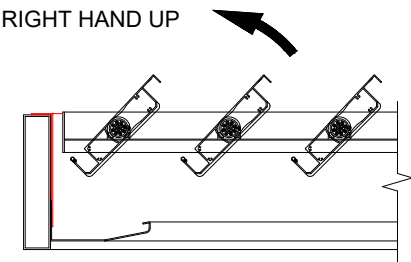
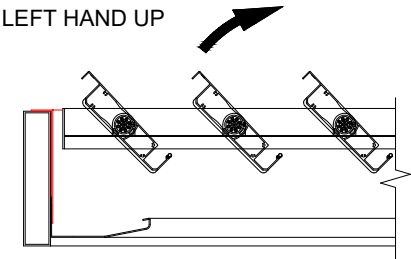
STEP 1

16 blades x 205 Crs	3280
1 blade at 220 (blade size)	+ 220
17 blades	= 3500

STEP 2

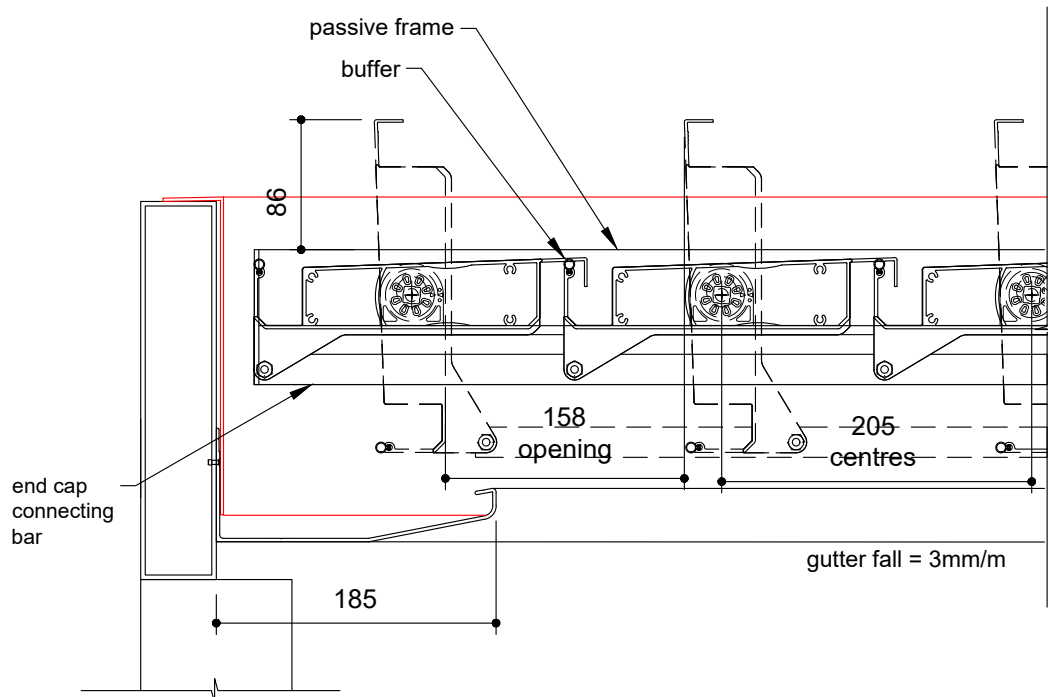
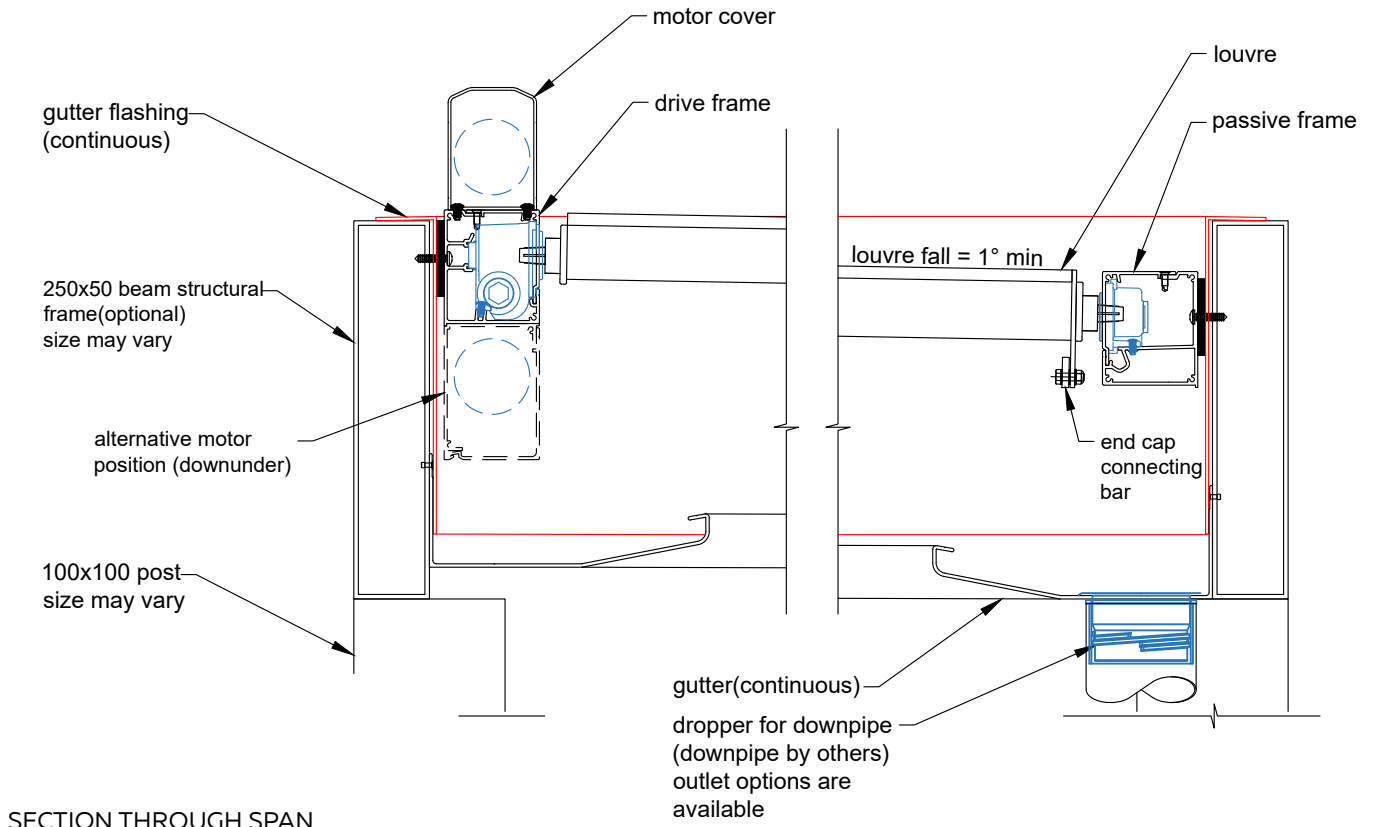
Blade cover	3500
+2/22mm clearance @ ends	+ 44
Total exact pivot length	= 3544
Extra width 185mm gutter provides cover if clearance increases over 22mm at ends.	
Blade direction either right hand up or left hand up.	

CHOOSE DIRECTION OF BLADE PIVOT

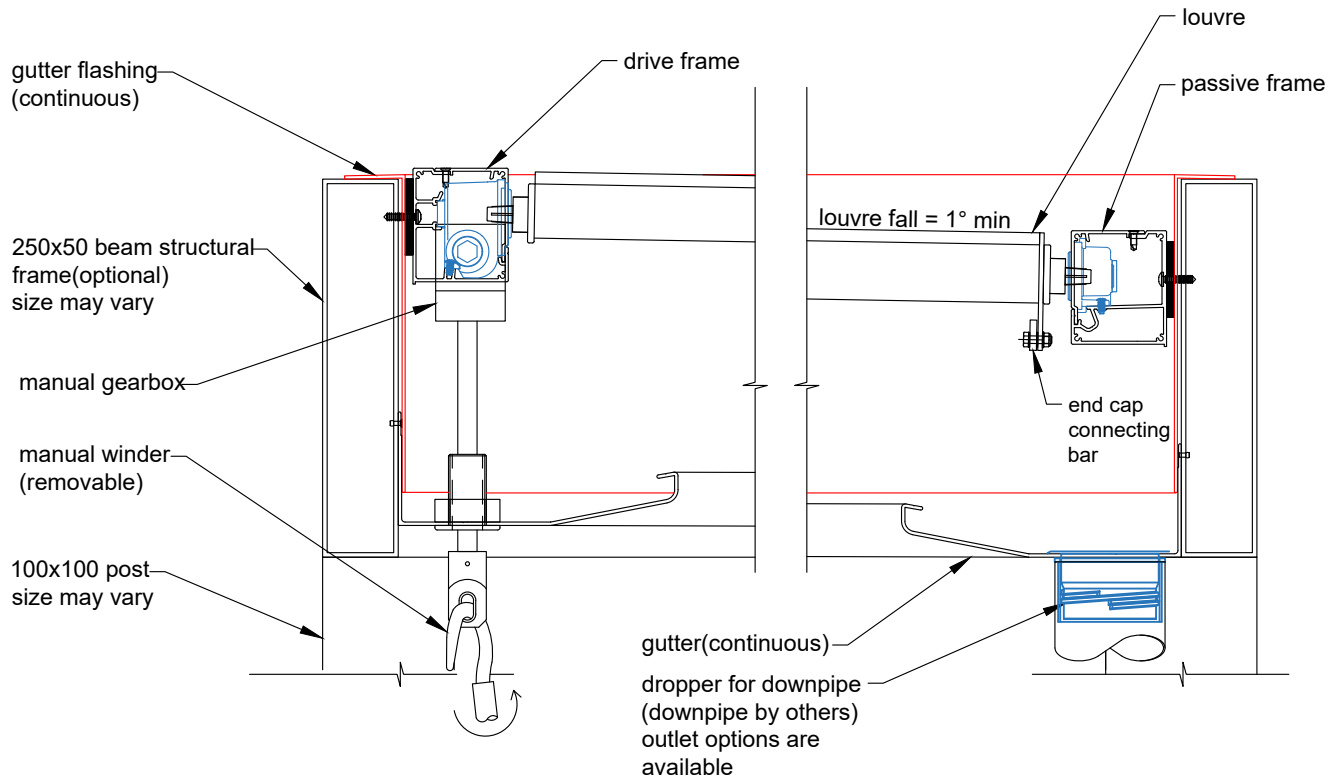




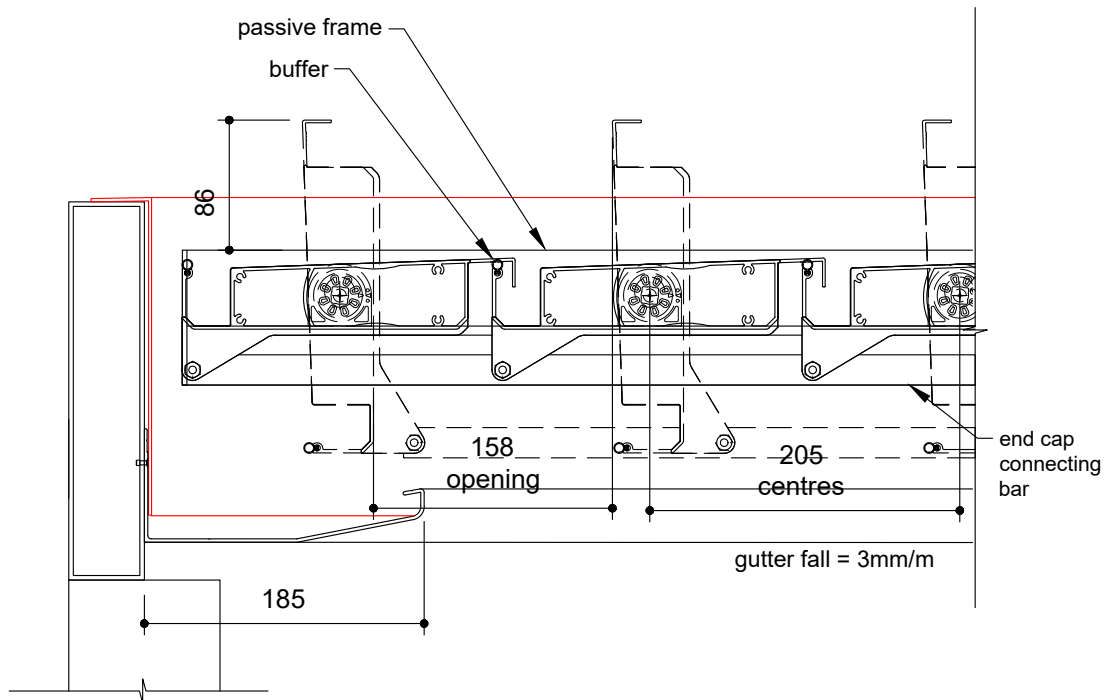
# TYPICAL DETAIL : MOTORISED 220/45 ALPINE ROOF WITHIN LOUVRETEC STRUCTURAL FRAME



**TYPICAL DETAIL : MANUAL 220/45 ALPINE ROOF  
WITHIN LOUVRETEC STRUCTURAL FRAME**



SECTION THROUGH SPAN



SECTION THROUGH LOUVRES



SUBURBAN ROOFS BRINGING CONTROLLABLE SHADE & STYLE. BY LOUVRETEC ADELAIDE

## 200 SUBURBAN ROOF

### Quality & economy in mind

Designed with quality and economy in mind the engineered 200 Suburban Roof blades provide wide spanning capabilities.

Using the highest grade aluminium every aspect is fully engineered and backed by Louvretec's product and workmanship warranty and powered by Somfy.

Now comes with a new extruded motor cover and a 185mm extra wide gutter to all four sides as standard.



### 200 SUBURBAN ROOF



200 SUBURBAN ROOF  
BLADES CLOSED



200 SUBURBAN ROOF  
BLADES OPENING

### MOTORISED OR HAND OPERATED

Controller and  
Sensor Options  
Refer Pages  
2.17 - 2.18  
for range of options



### SURFACE FINISHING OPTIONS

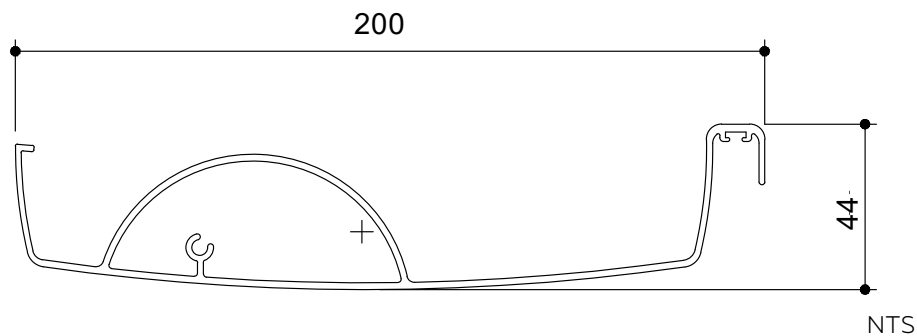
A wide range of options are available.



## OPENING ROOFS SPECIFICATIONS



### TECHNICAL DETAILS 200 SUBURBAN ROOF



BLADE SPECIFICATIONS		
Blade cover - opening system	188 mm	Weight per linear metre - opening system
Weight per square metre - opening system	10.25 kg/sqm	Actual blade width
Blade centres - opening system	188 mm	200 mm

## SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s	37m/s	44 m/s	50 m/s	55 m/s
		115 km/hr	133 km/hr	158 km/hr	179 km/hr	198 km/hr
200 Suburban Roof <b>3m Height</b>	4500	4500	4500	4000	3600	3300
200 Suburban Roof <b>6m Height</b>		4500	4500	3800	3250	3000

## INSTALLATION OPTIONS



### CALCULATE OPTIMUM FRAME OPENING SIZES FOR SPIRAL PIVOT

**Span:** Check engineering span limits

**Pivot:** Calculation example showing 17 blades

#### STEP 1

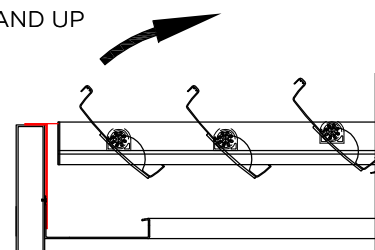
16 blades x 188 Crs	3008
1 blade at 200 (blade size)	+ 200
17 blades	= 3208

#### STEP 2

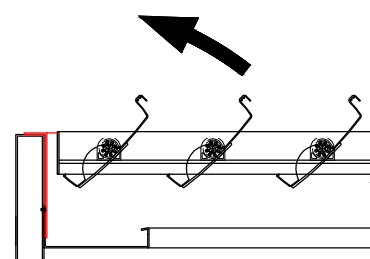
Blade cover	3208
+2/22mm clearance @ ends	= 44
Total exact pivot length	= 3252
Extra width 185mm gutter provides cover if clearance increases over 22mm at ends.	
Blade direction either Right Hand up or Left Hand up.	

## CHOOSE DIRECTION OF BLADE PIVOT

LEFT HAND UP

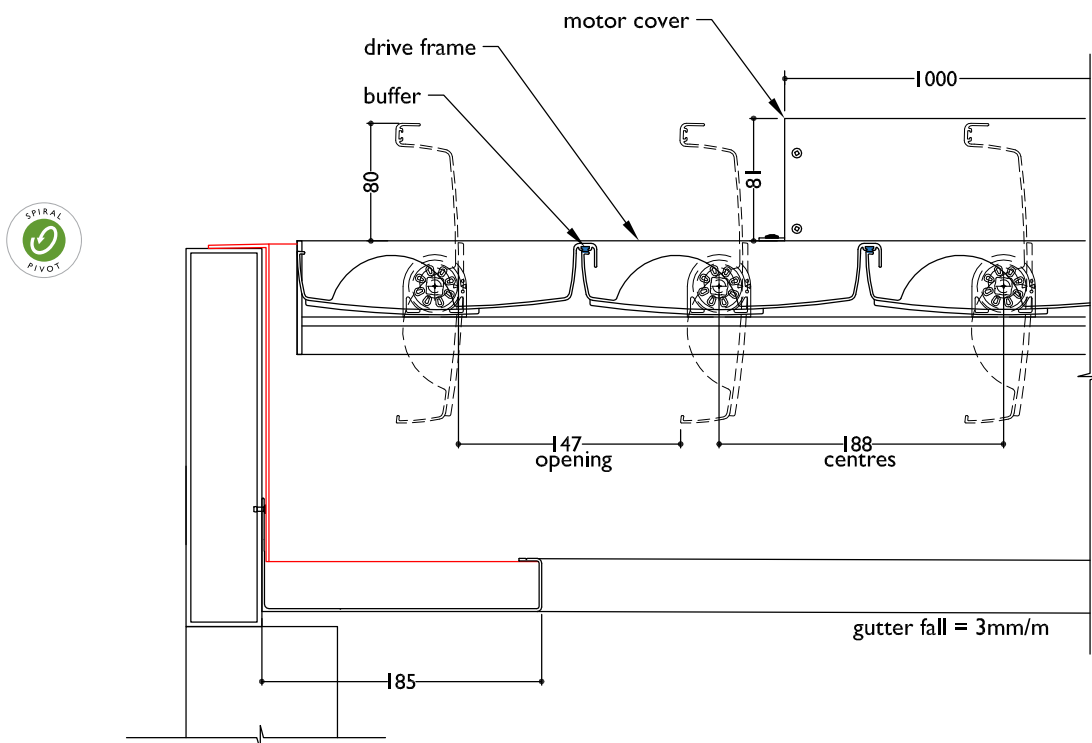
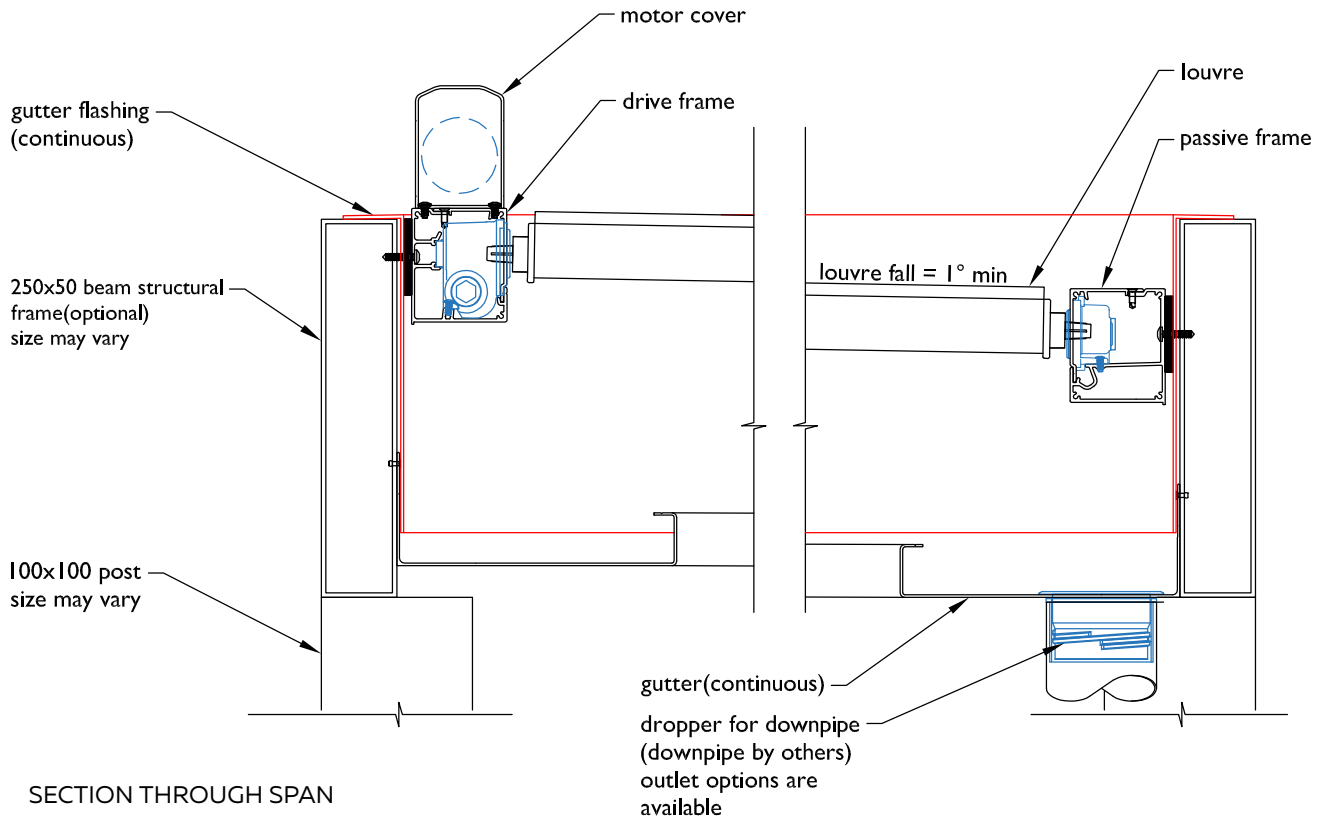


RIGHT HAND UP

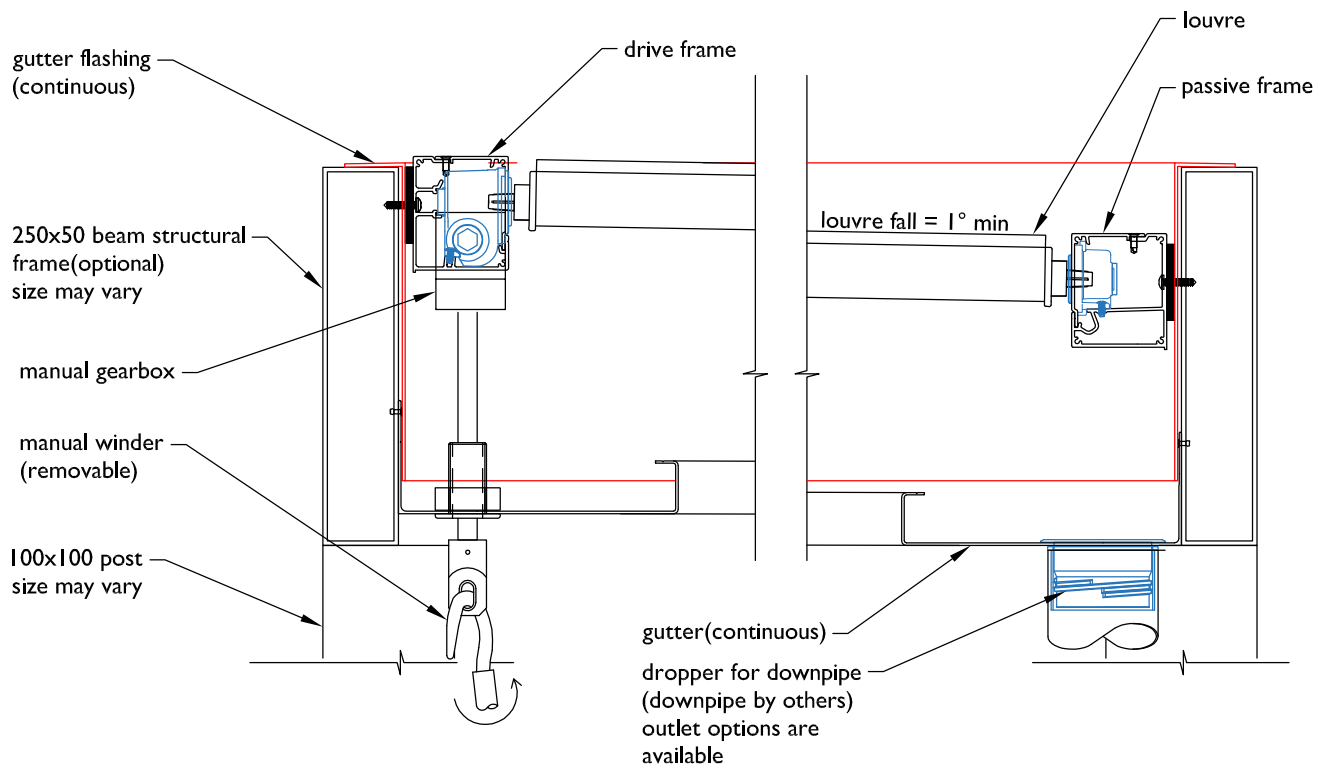




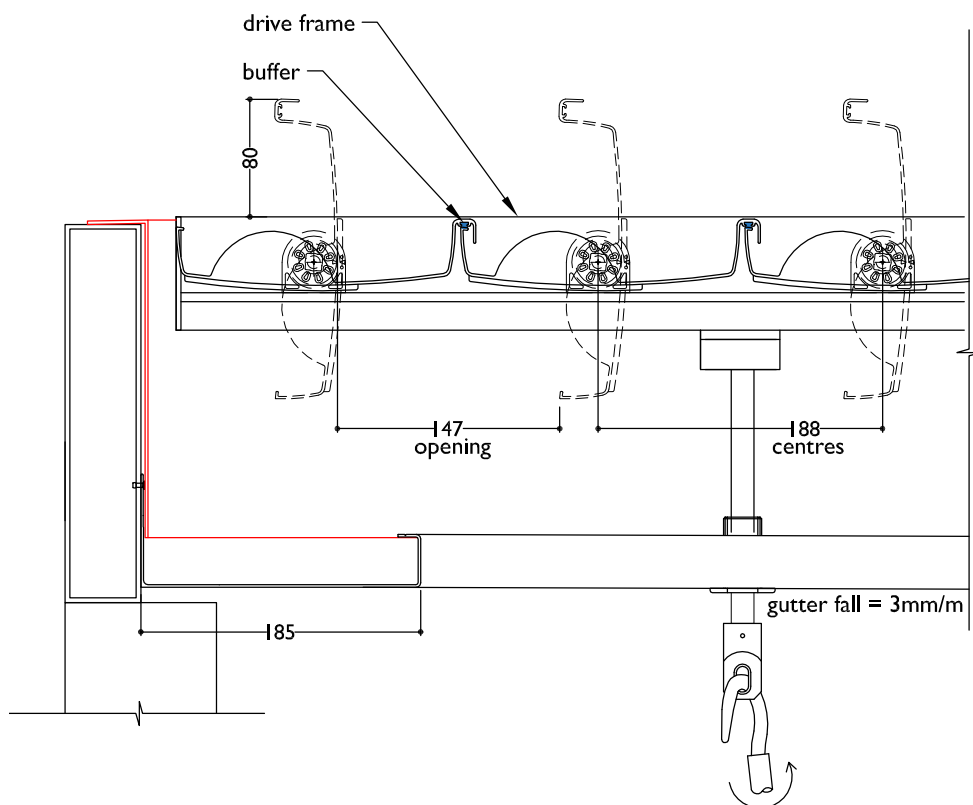
# TYPICAL DETAIL : MOTORISED 200 SUBURBAN ROOF WITHIN LOUVRETEC STRUCTURAL FRAME



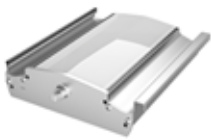
**TYPICAL DETAIL : MOTORISED 200 SUBURBAN ROOF  
WITHIN LOUVRETEC STRUCTURAL FRAME**



SECTION THROUGH SPAN



SECTION THROUGH LOUVRES



A FILTERED LIGHT-FILLED OUTDOOR ROOM  
BY LOUVRETEC AUCKLAND

## 270 TRANSLUCENT ROOF

Let there be light

If loss of light is an issue when the Opening Roof is closed then the unique 270 Translucent Roof provides the answer.

The Translucent Roof has now been re-designed to include “Cushion Closing” on to an external sun-resistant bulb seal. This Opening Roof also features an all new white in-fill panel of Acrylic Naturelite Plexiglas

Plexiglas offers natural UV protection throughout the material – it does not rely on an applied surface coating for UV protection. It is one of the reasons Plexiglas is used in aircraft cabin windows to protect from strong UV light and substantial differences in pressure and extreme cold.

This same material is now used on all 270 Translucent Roof Opening Roofs – high light transmission coupled with naturally UV-stable technology is as good as it gets.

This style of Opening Roof now comes with a 185mm extra wide gutter to all four sides as standard.



270 TRANSLUCENT ROOF BLADE



270 TRANSLUCENT ROOF  
BLADES CLOSED



270 TRANSLUCENT ROOF  
BLADES OPENING

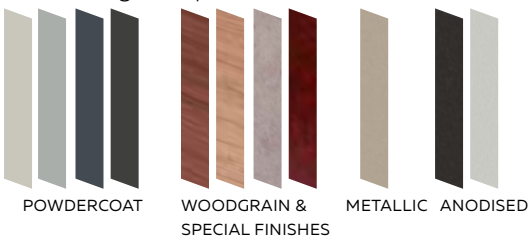
### MOTORISED OR HAND OPERATED

Controller and  
Sensor Options  
Refer Pages  
2.17 – 2.18  
for range of options



### SURFACE FINISHING OPTIONS

A wide range of options are available.



POWDERCOAT

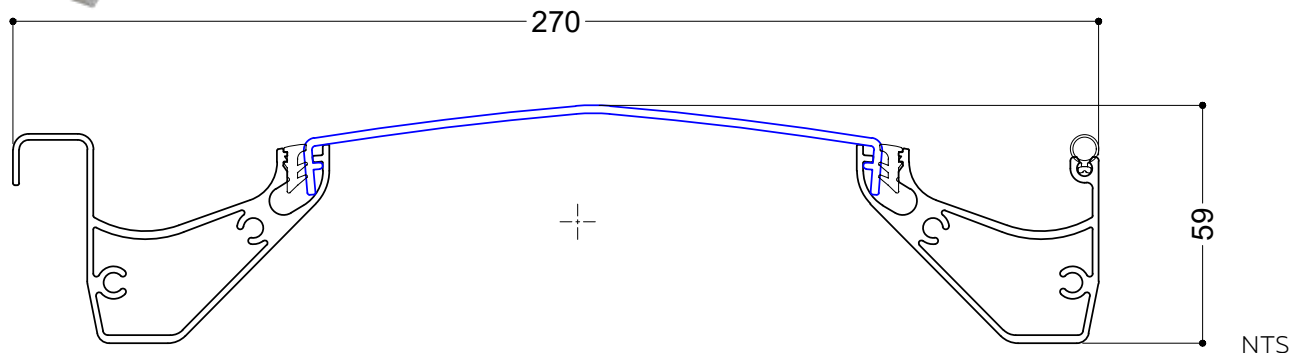
WOODGRAIN &  
SPECIAL FINISHES

METALLIC ANODISED

## OPENING ROOFS SPECIFICATIONS



### TECHNICAL DETAILS 270 TRANSLUCENT ROOF



BLADE SPECIFICATIONS			
Blade cover - opening system	256 mm	Weight per linear metre - opening system	2.4 kg/lm
Weight per square metre - opening system	9.4 kg/sqm	Actual blade width	270 mm
Blade centres - opening system	256 mm		

## SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s	37m/s	44 m/s	50 m/s	55 m/s
		115 km/hr	133 km/hr	158 km/hr	179 km/hr	198 km/hr
270 Translucent Roof <b>3m Height</b>	4500	4500	4500	4000	3500	3250
270 Translucent Roof <b>6m Height</b>		4500	4500	3550	3250	3000

## INSTALLATION OPTIONS



### CALCULATE OPTIMUM FRAME OPENING SIZES FOR SPIRAL PIVOT

Span: Check engineering span limits

Pivot: Calculation example showing 17 blades

#### STEP 1

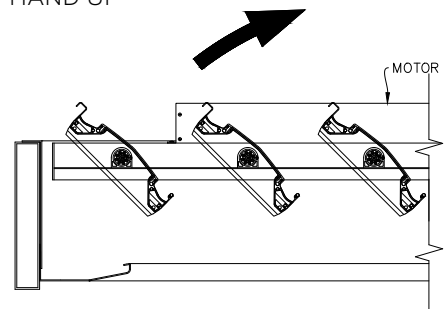
16 blades x 256 Crs	4096
1 blade at 270 (blade size)	+ 270
17 blades	= 4366

#### STEP 2

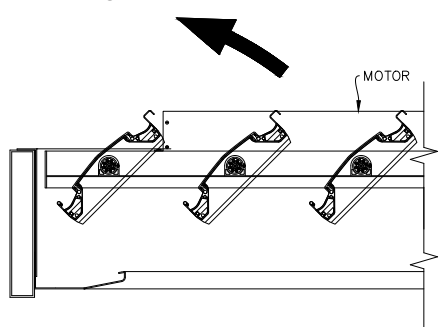
Blade cover	4366
+2/22mm clearance @ ends	= 44
Total exact pivot length	= 4410
Extra width 185mm gutter provides cover if clearance increases over 22mm at ends.	
Blade direction either Right Hand up or Left Hand up.	

## CHOOSE DIRECTION OF BLADE PIVOT

### LEFT HAND UP

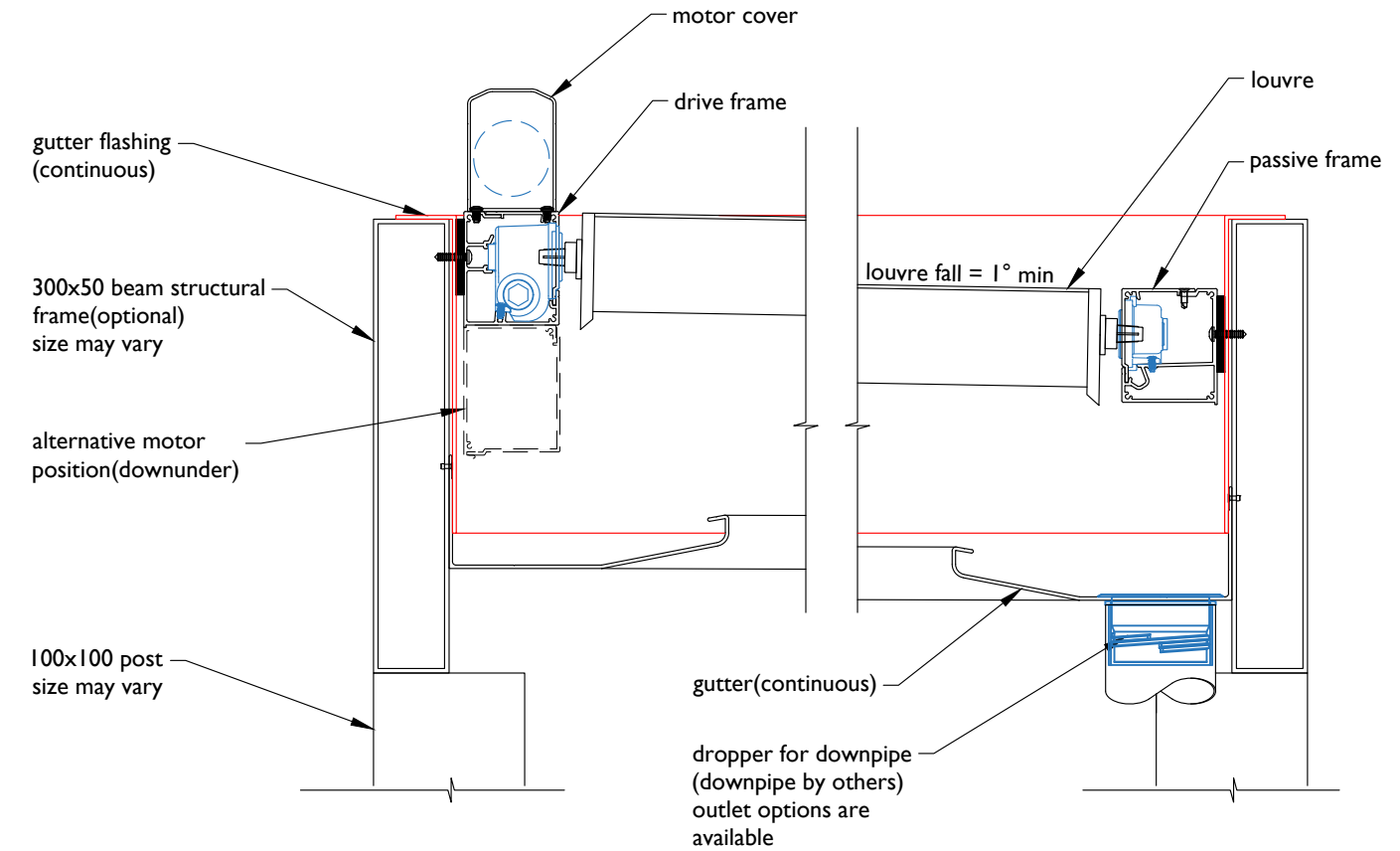


### RIGHT HAND UP

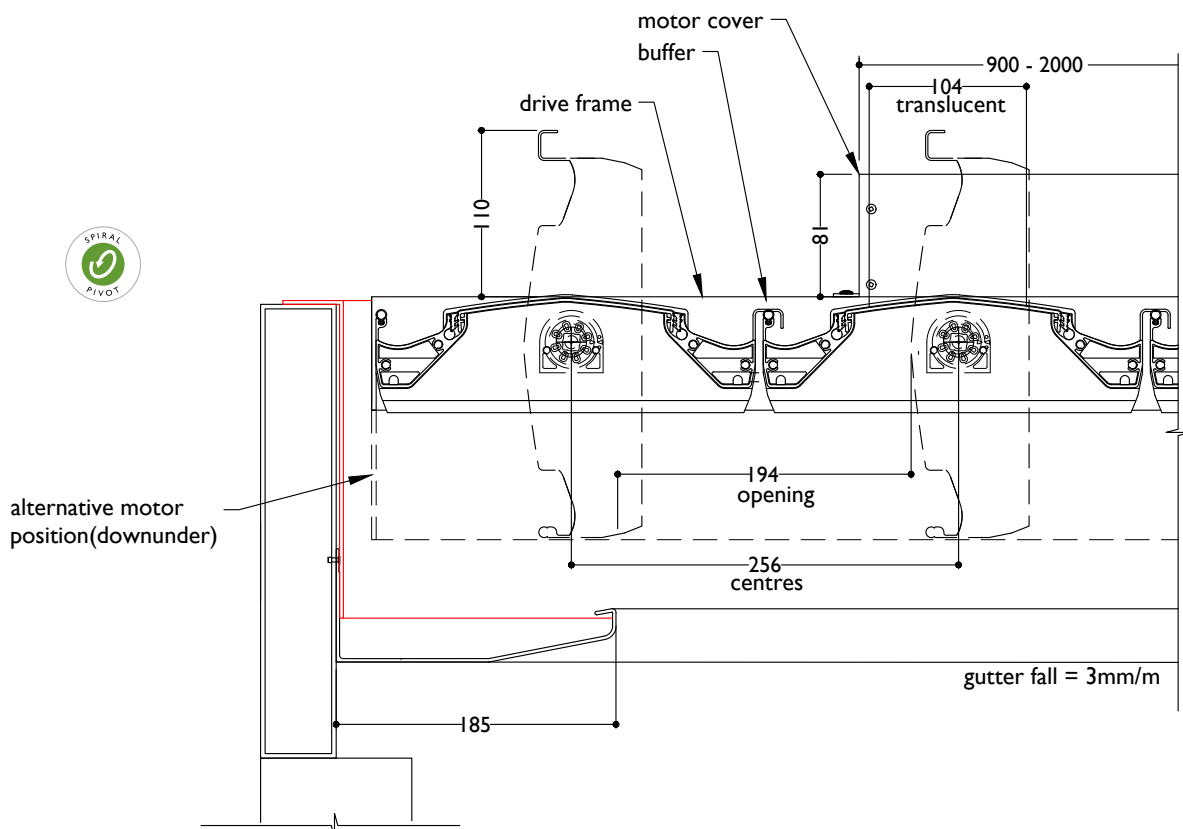




## TYPICAL DETAIL : MOTORISED 270 TRANSLUCENT ROOF WITHIN LOUVRETEC STRUCTURAL FRAME

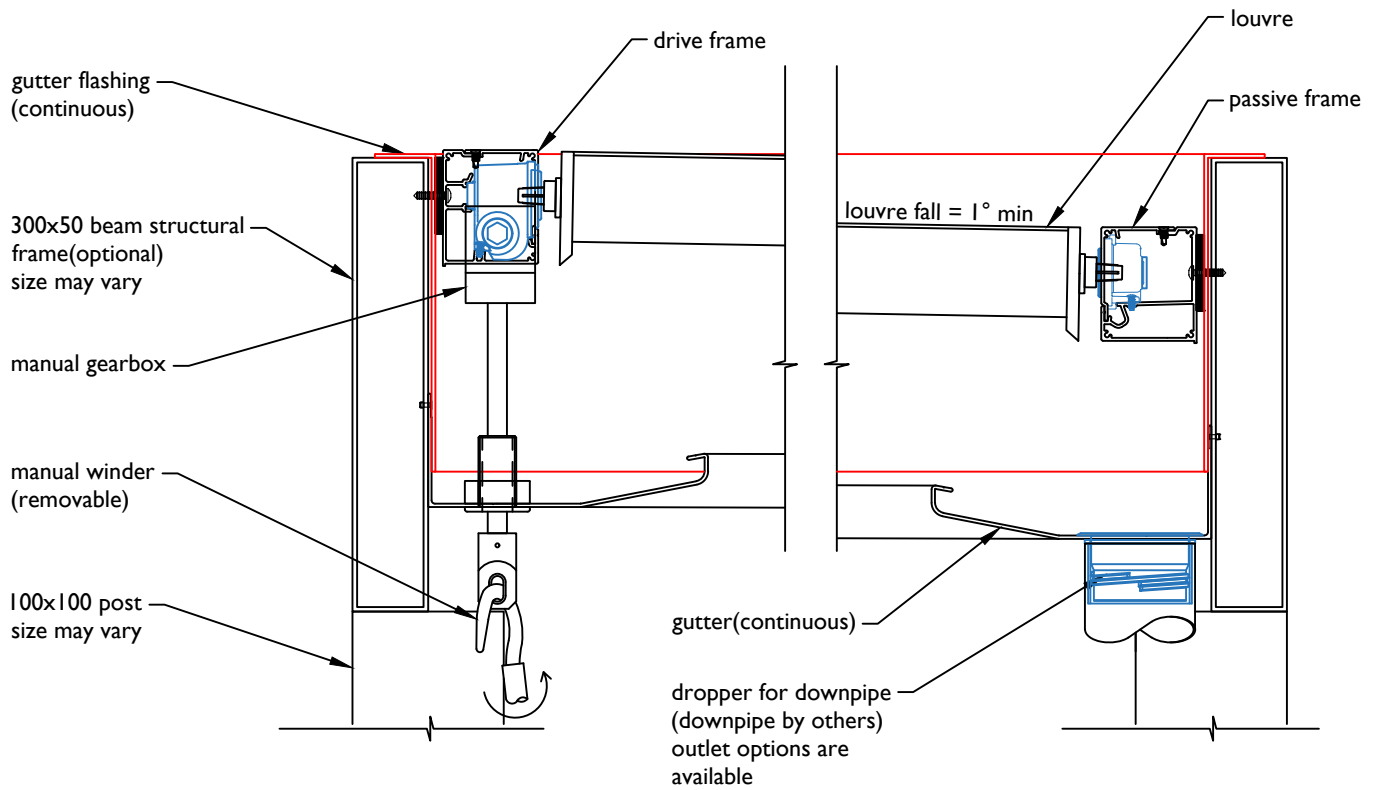


SECTION THROUGH SPAN

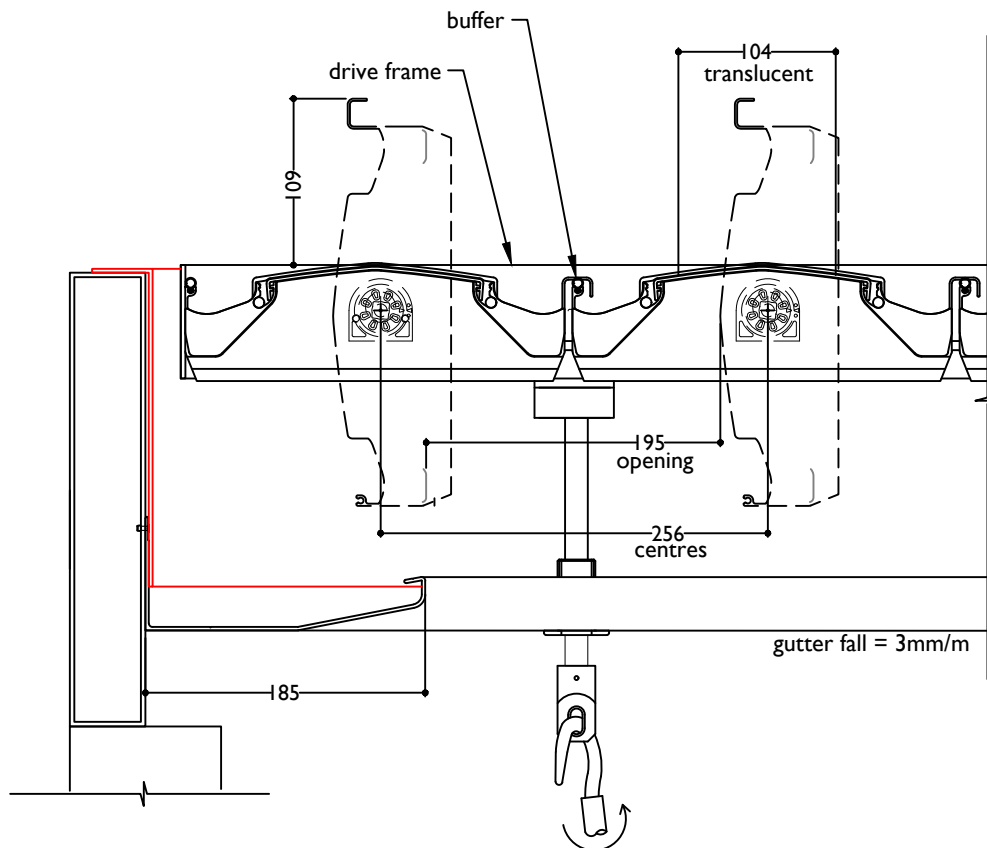


SECTION THROUGH LOUVRES

**TYPICAL DETAIL : MANUAL 270 TRANSLUCENT ROOF  
WITHIN LOUVRETEC STRUCTURAL FRAME**



SECTION THROUGH SPAN



SECTION THROUGH LOUVRES

## LOUVRETEC PRODUCT WARRANTY

### OPENING ROOFS - SUN LOUVRES - SHUTTERS

#### The Louvretec range of products:

All Louvretec branded products are designed and engineered in Australia & New Zealand by Louvretec to comply with relevant AS/NZS standards – refer to full Louvretec Engineering data Design Manual 2025 Section 13.

Louvretec has the most extensive range of outdoor sun shading/ outdoor living products available in Australasia, backed by a comprehensive network of Louvretec Dealers.



Most Louvretec products sold in Australia are made in Australia\*



Most Louvretec products sold in New Zealand are made in New Zealand\*

\*Some specialised products may only be made in Australia or in NZ and are shipped between each country.

#### The Authorised Louvretec Dealer Network:

Your Louvretec product will have been supplied and installed by your local Authorised Louvretec Dealer. All Louvretec Dealerships are privately owned, and the same Louvretec Dealer who supplied your Louvretec will also service your Louvretec.

Your Louvretec product has been “Engineered for Life” and we are committed to ensuring that happens.

#### LouvreCare:

Preventative maintenance and valet. Regular scheduled servicing by a LouvreCare team has real benefits. LouvreCare can vary between Dealerships – consult your local Louvretec Dealer.



*Engineered for Life*

**LouvreTec®**  
OPENING & RETRACT ROOFS / SUN LOUVRES / SHUTTERS

## LOUVRETEC PRODUCT WARRANTY

### OPENING ROOFS - SUN LOUVRES - SHUTTERS

#### warranty details

All product installed by Louvretec (excluding Outdoor Blinds - please refer separate warranty for this) , or an Authorised Louvretec Installer, is from date of invoice, fully warranted for the first two years. This warranty covers workmanship, louvres and all componentry, motors, switches and electronics with all labour costs included. In addition, from year two to end of year five, a warranty replacement of parts only applies for all motors, switches and electronics. Labour costs excluded. (Excludes any wiring and electrical connections done by others).

#### motorisation

Louvretec exclusively uses Somfy motors, switches and electronics. Somfy offers a 5-year warranty on all motors and electronics. Please contact Louvretec NZ or Somfy for a complete list of all terms and conditions.



#### product materials

All aluminium louvres and extrusions used in Louvretec's systems are manufactured in an ISO9002 quality assured environment to AS1866 & AS3902 standards. Marine grade T316 stainless steel is used for drive axles, with stainless steel componentry fixings being standard. Plastic injected moulded componentry is all UV stabilised

#### powdercoat finishes

A wide range of exterior powder coat finishes are available. Duralloy or equivalent is the standard finish supplied unless stated otherwise and this carries a 10 year film and colour integrity warranty as per the Dulux Powder and Industrial Coatings Warranty. If your project has used the Duratec powdercoat range please refer to the Dulux Powder and Industrial Coatings Warranty wording.

#### anodised finishes

The current specifications re anodised aluminium range from 12-20-25 microns depth. The greater the microns the better the protection. With regular cleaning anodised material will retain its original integrity for no less than 10 years.

#### fully engineered

Our louvre systems are designed to conform to New Zealand and Australian standards wind loadings. Full engineering details available on request.

#### cleaning

Periodic cleaning is essential to remove dirt, grime and accumulated salt deposits from both powder coated and anodised surfaces. Three steps for cleaning are:

- 1 Carefully remove any loose deposits with a wet sponge.
- 2 Use a soft non abrasive brush and a mild car cleaning detergent solution to remove dust, salt and other deposits.
- 3 Rinse off with clean fresh water.

#### product description

#### louvrecare

Louvrecare is a planned preventative maintenance and valet service designed to keep your Louvretec product clean and in good working order. Contact your Louvretec Dealer for full details.



#### effective from

Warranty effective from \_\_\_\_/\_\_\_\_/\_\_\_\_

Louvretec Representative \_\_\_\_\_ Print name \_\_\_\_\_

Site Address \_\_\_\_\_

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