# **DESIGN MANUAL**

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Download this Design Manual including Technical Documents at; www.louvretec.com



# WELCOME

When you choose Louvretec, you're choosing decades of expertise, innovation & superior quality.

A stand out from the crowd.



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The future of outdoor living technology... available today.

We bring modern architecture to your home and outdoor living space, to enhance your outdoor life.

Our designs are contemporary and timeless, embodying openness, freedom, and beauty.

Enjoy outdoor living spaces, with innovative design options. Louvretec is always bespoke and always one step ahead.

Let us be the one stop solution for your outdoor living wishes.











# LouvreTec®

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- "A purpose-built outdoor living area is one of the most requested additions in domestic architecture"
- "An easy access to covered outdoor entertaining spaces is one of the things most-valued by Aussie and Kiwi homeowners"
- "Everything has a flow to the outside"

# THE STORY CONTINUES

# IT'S BEEN SAID THAT TIMING IS EVERYTHING..

...and certainly the timing was right for starting up an Opening Roof company 25 years ago, even though it may not have always seemed like it at the time! We had humble beginnings and good ideas, and being a family business, as we grew our family grew.

Today the Louvretec family continues to grow. We have great products but equally importantly we have great people - Take a look over page at snapshots of some of the worldwide Louvretec family. Amazingly all Louvretec Dealerships are family run businesses, with most instances the family member actively involved in the business.

It makes for a well proven, trustworthy business model, something we are all proud to be part of.

No matter where in the world you are situated, we hope we can be of service to you as we continue to bring you innovative, smart sun control solutions that contribute to create a sustainable home or building – keeping it truly green, our number one goal in Louvretec's commitment to sustainable living.

Thank you for your support in the past, we look forward to the privilege of being of service now and in the future.

BILL COLLINS
DIRECTOR
LOUVRETEC NZ LTD
LOUVRETEC AUSTRALIA PTY LTD



HEAD OFFICE, LOUVRETEC AUCKLAND, NZ

# **OVERVIEW**

SECTION 1

# **OPENING ROOFS**

SECTION 2





It has been said of today's architecture that everything has a flow to the outside...

From Residential outdoor rooms to Commercial projects, the Louvretec product range lets you design for the sun and brings form and function to any home or building.



Louvretec Opening Roofs create more space in your home by creating a stunning outdoor room, perfect for gatherings. With different styles of Opening Roofs to choose from we have you covered no matter what your location's wind zone.

# RETRACT ROOFS

section 3

# STRUCTURAL FRAMES

SECTION 4





Louvretec is proud to bring you our Retract Roof range. Choose from two styles of Retract Roofs. With all of the functions of our standard Opening Roof range, the Retracts take it one step further by allowing the blades to retract back when you want. Enjoy the sky overhead or bring the Louvres back in place for operable overhead shelter.

Louvretec Aluminium Structural Frames provide support and strength for Louvretec Opening Roofs & Sun Louvre systems. Made from aluminium, they come in different sizes and can be powder-coated or anodised in a different colour from the Louvre system frame for a two tone effect.

# SLIDETEC FRAMELESS GLASS DOORS & PANELS

SECTION 5

### **OUTDOOR BLINDS**

SECTIO





Louvretec's Slidetec Frameless Glass Doors are a great way to close in the sides of your Louvretec Opening Roof to create an ultimate outdoor room. The clear view of Slidetec Frameless Glass Doors provide excellent rain & wind protection when needed plus give the option of sliding them open to enjoy a gentle summer breeze if you wish.

Louvretec's range of Outdoor Blinds include Motorised or Hand Operable Mesh Shade Blinds as well as Hand Operable PVC Blinds. Outdoor Blinds are a great way of creating an outdoor room that will become the new favourite room in your home. Mesh Shade blinds are available in different colours and degrees of mesh 'openness'.

Outdoor Blind options may vary between Louvretec Dealers.

LIGHTING

5ECTION **7** 

HEATING

SECTION





Louvretec's Light-Tec Outdoor Lighting options adds that final finishing touch and creates atmosphere and functionality at night. Options include lighting to the front face or inside face of the gutter, or underframe downlights. Choose from Warm White,or RGB colours on request.

Lighting options may vary between Louvretec Dealers.

Cosy up your Outdoor Room with an Outdoor Heater that pairs perfectly with a Louvretec Opening Roof.

Create & enjoy a warm and inviting outdoor living space even when the temperature cools.

Heating options may differ among Louvretec Dealers.

#### THE LOUVRETEC ROOM

section

# SUN LOUVRES OVERVIEW

SECTION 10



The Louvretec Room is the ultimate combination of a Louvretec Opening Roof with the addition of Slidetec Frameless Glass Doors, Outdoor Blinds or Coastal Shutters – all complemented with the addition of Louvretec outdoor lighting and heating. The Louvretec Room fast becomes the favourite gathering spot.



Louvretec Sun Louvres bring lots of design options. Our Sun Louvres are available in a range of different widths and shapes including Airfoil, Rectangular, Flush & Weatherboard-look. They can be Motorised, Hand Operable, or if you prefer End or Bracket fixed. Louvretec Sun Louvres bring privacy, sun control and style.

KISS PIVOT SYSTEM HAND OPERABLE LOUVRES

SECTION 10.1

SPIRAL PIVOT SYSTEM | MOTORISED & HAND OPERABLE LOUVRES SECTION 10.2





Operating off double drive-arms Louvretec's KISS Pivot System is an elegant, well proven and easy to operate Sun Louvre Pivot system.

Available in many powdercoat colours.

Louvretec's award winning Spiral Pivot System is hidden away at the heart of our motorised and hand operable mid sized Louvre systems.

MAXI DRIVE | MOTORISED

MAXI SIZED LOUVRES

section 10.3

#### SUN LOUVRES END FIXED

SECTION 10.4



Designed to meet the ever increasing demand for motorised larger louvres, our Maxi Drive Pivot system is an excellent option. Somfy powered, the strong and capable Maxi Drive system is an ideal option.

Using internal screw fixing ports, Louvretec Sun Louvres can be End Fixed in place. Choose the pitch and centre you require. End fixing is a neat and tidy way of bringing style and function to your home or building.

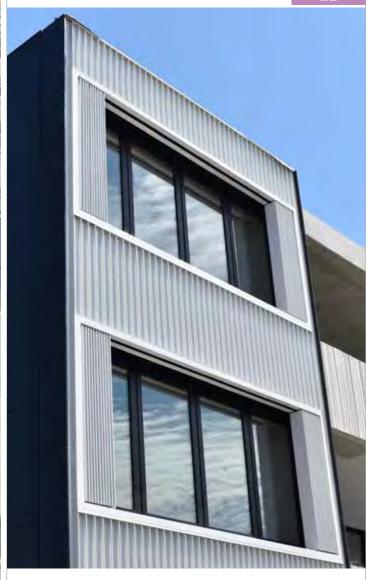
#### SUN LOUVRES BRACKET FIXED

10.5

#### RETRACT SUN LOUVRES

SECTION





Louvretec Sun Louvres can be Bracket Fixed in place using our proprietary Bracket Fixing systems. Choose the pitch and centre you require.

Bracket Fixing provides long, unbroken runs of louvres bringing sun control and a fresh, modern, striking look.

Louvretec is continuing with design and development of the Retract Sun Louvre Range.

Please contact your Louvretec Dealer for further information.

**SHUTTERS** 

SECTION 12

#### **ENGINEERING REPORTS**

SECTION 13





Louvretec's all aluminium Coastal Shutters are designed to operate in the harshest of conditions.

Custom made with a choice of Airfoil or Rectangular Louvres, Coastal Shutters are available Sliding, Bifolding or Hinged and are always a welcome addition to any home or building. The Louvretec range of products are fully engineered to AS/ NZ Standards.

Refer to Engineering Section 13 for product specific details as determined by regional wind zones.

#### **ELECTRICAL WIRING DIAGRAMS**

14



Section 14 features a wide range of Wiring Diagrams with options covering numerous product combinations.

Your Louvretec Dealer will supply project specific wiring Diagrams for installs not covered in this section.

# LOUVRETEC GREEN POLICY

Louvretec's Green Policy



At Louvretec, we are committed to sustainable & responsible business practices.

The Louvretec Green Policy outlines specific targets to achieve environmental sustainability efforts across our supply chain, with a goal of mitigating our carbon emissions every

We offset part of our carbon footprint by funding the planting of native trees through Trees That Count.

Louvretec Green aims to reduce the environmental impact of our products along their life cycle. Our careful supplier selection ensures that we meet our design requirements. We use brands such as Somfy, who have their own Act For Green® voluntary initiative, which further enhances our sustainability efforts.





Refer to pages 1.24 - 1.29 for more Louvretec Green info.

# RESIDENTIAL

# Options for Residential projects



- 1. Mesh Outdoor Blind Motorised
- 2. Motorised 200mm Maxi Louvres in an Elam Street Frame
- 3. 300x50 Aluminium Structural Frame
- 4. 150x150 Aluminium Structural Posts
- 5. Louvretec Gutter Lighting

- 6. 220/35 Slimline Opening Roof
- 7. Downlights
- 8. 220/35 Slimline Retract Roof
- 9. Outdoor Heater
- 10. Slidetec Frameless Glass Sliding Doors 4 Panel
- 11. 135 Hi Span Vertical Sun Louvres



- 12. End Fixed Chimney Surround Bracket Fixed also available
- 13. Bracket Fixed Panel of 120mm Airfoil Louvres
- 14. Downlights
- 15. 250x50 Aluminium Structural Frame
- 16. 100x100 Aluminium Structural Posts
- 17. 180/30 Slimline Opening Roof

- 18. Louvretec Gutter Lighting (reflected) to inside of gutter
- 19. Sliding Shutters with 90mm Midi Louvres, hand adjustable KISS Pivot system infills
- 20. End Fixed Panel of 150mm Midi Louvres
- 21. Freestanding Louvretec Outdoor Room

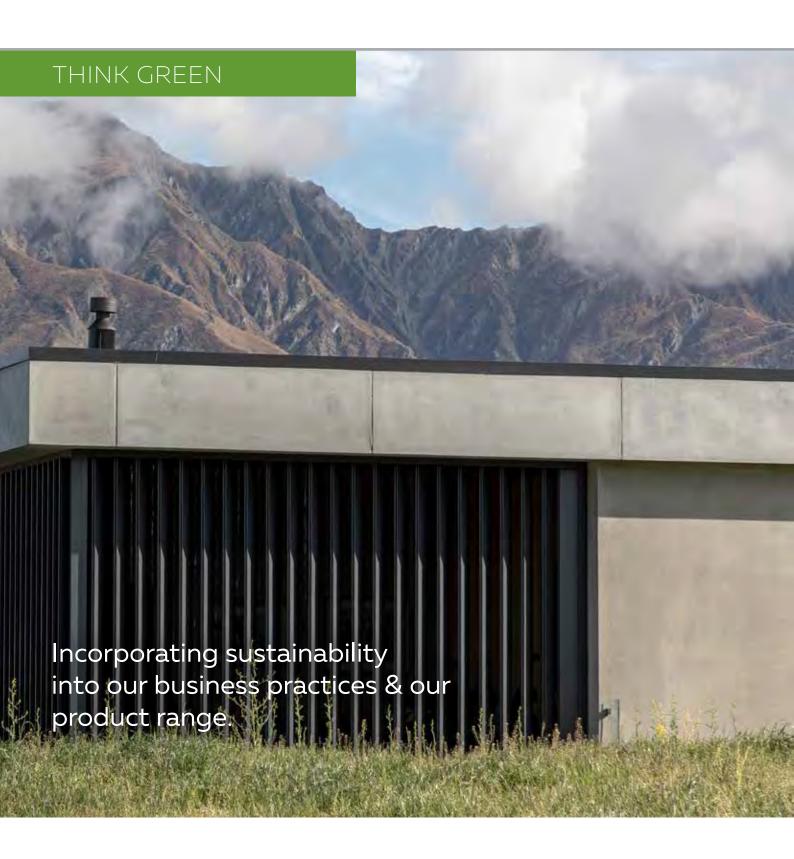
#### **COMMERCIAL**

#### Options for Commercial buildings & projects

- 1. 270 Translucent Opening Roof
- 2. Solar Powered Motorisation
- 3. Bracket Fixed Panels of Vertical RL 450 Square Sun Louvres
- 4. Bracket Fixed Panel of Horizontal 180 Airfoil Sun Louvres
- 5. Motorised, Vertical 200mm Flush Maxi Louvres in an Elam Street Frame
- 6. 220/35 Slimline Retract Roof Blades stack one end
- 7. 220/35 Slimline Retract Roof Blades stack to both ends
- 8. 165 Hi Span Vertical Sun Louvres
- 9. Aluminium Bi-folding Shutters 8 panel with 90mm Midi Louvres, hand adjustable KISS Pivot system infills
- 10. Aluminium Sliding Shutters 5 panel with 90mm Midi Louvres, hand adjustable KISS Pivot system infills
- 11. 220/35 Slimline Opening Roof
- 12. Slidetec Frameless Glass Sliding Doors 4 panel
- 13. 180/30 Slimline Opening Roof
- 14. Mesh Outdoor Blind Motorised









INFORMED DESIGN BASED ON THE SUN'S PATH



6-STAR GREEN STAR RATED BUILDING, AUCKLAND. NZ





OUR SUSTAINABILITY POLICY

#### Our commitment to sustainability

At Louvretec we are committed to sustainable and responsible business practices for a better future.

To achieve this, we have developed the 'Louvretec Green' policy that outlines our best practice including our goals & sets out our plans of reducing our carbon footprint every year. We are continually making environmental improvements.

By choosing Louvretec, you can trust that you are engaging with a company that cares about the planet and future generations.

#### What is our business?

Our core business is to design, market, manufacture and install louvres.
 Louvretec products let you design for the sun by letting you set and control conditions including blocking UV rays - a sustainable building method.

Louvres are available in various options & can be a key component in sustainable building practices

- Fixed Sun Louvres can be installed with blades set to allow sunlight to
  enter the building for warmth and light in winter yet also set to prevent
  direct sunlight from entering in summer.
- Motorised Standard Sun Louvres & Opening Roof Louvres are even more effective, giving a wide range of control options in all seasons.
   Louvretec Spiral Pivot Sun Louvres can pivot through up to 180 degrees, allowing for optimal setting options at any time.
- Retracting Opening Roofs provide the ultimate in sun protection & outdoor living choices. Offering everything that Motorised systems offer, Retract systems do exactly that - they Retract. When you want direct sunlight or wide-open spaces, a touch of the button achieves all of that.
- The Louvretec Outdoor Room incorporates all the options. With Opening or Retract Roofs, & a choice of side panels including Louvres, Shutters, Slidetec Glass or Outdoor Blinds to suit.

THE ENVIRONMENTALLY SUSTAINABLE LITE-HOUSE, WAIHEKE ISLAND, NZ



#### All Louvretec Louvres are made from Aluminium

- · Aluminium when first discovered, was worth more than gold
- It is a most abundant metal on the earth's crust, and the most frequently used, being versatile, lightweight, corrosion resistant and durable
- $\cdot~$  It is environmentally friendly because of its sustainability, being the most recycled industrial material on earth
- · Recycling saves 95% of the energy used in its initial production from raw materials
- · Over 75% of aluminium produced is still in use today it is infinitely recyclable
- · Aluminium is particularly easy to handle, the environmental impact is further reduced when used in construction as transportation cost are reduced
- $\cdot\;$  Louvretec aluminium louvres are sourced ex-mill closest to where our Dealers are located:
- 1. In Australia & NZ for these regions
- 2. In the US for USA & Canada
- 3. In Belgium for Europe
- · Aluminium is still known as "the wonder metal" for very good reason

#### Louvretec Green's Policy & Targets

A SUSTAINABLE SUPPLY CHAIN: Louvretec Green aims to reduce the environmental impact of our products along their life cycle. Our careful supplier selection ensures that we meet our design requirements. We use brands such as Somfy, who have their own Act For Green® voluntary initiative, which further enhances our sustainability efforts.

Our other key suppliers have been verified to ensure that our supply chain materials comply with environmental and health regulations.

OPTIMISING & REDUCING VEHICLE FLEET EMISSIONS: We continue to reduce our transport emissions by choosing Battery Electric Vehicles (BEV) or Plug-in Hybrid Electric Vehicles (PHEV) wherever possible.

TREES THAT COUNT: We're working with Trees That Count to help mitigate parts of our carbon footprint over future years and help protect New Zealand's threatened biodiversity. That's good for our carbon footprint, and good for the planet.





A SUSTAINABLE SUPPLY CHAIN -ALUMINIUM FROM INEX WITH THEIR OWN SUSTAINABILITY PROGRAMME









- Louvretec recycles paper, plastic, glass and aluminium offcuts. Offcuts of aluminium are collected, baled & sent to be recycled into other products - by the original extruder or by a local recycling company of which there are many.
- Louvretec's Head Office in conjunction with our waste management provider have completed a Waste Audit that helped us understand our waste & the correct disposal of it. Every month we receive a Carbon Footprint Report that details our Scope 3 /Category 4 emissions associated with landfill disposal. This report also identifies areas of improvement.
- The Louvretec factory team reuses packaging from our suppliers, while our Dealers continue to reuse our packaging.
- Louvretec aspires to use more responsible packaging solutions and target to reduce the amount of petroleum plastic such as polystyrene in our packaging.
- We strive to use packaging that is recyclable, reusable or recycled wherever possible. Louvretec offices use responsibly sourced paper products with the Forest Stewardship Council® (FSC®) Chain of Custody certification.
- The Louvretec product range is designed for easy disassembly for maintenance and recycling.



We're proud to bring you our first Solar Powered, Freestanding Opening Roof - The Suburban Express Solar Powered Roof. The sun is an energy source that is renewable and inexhaustible by definition. Everywhere gets sunlight. The Suburban Express Roof is also available as a Hand Operable Roof with a handle.



#### Health, Safety & Wellbeing of our Staff

We are committed to providing a healthy and safe workplace for our employees. Safety in our workplace is paramount and we are committed to maintaining a SiteWise Gold Rating. We have a Louvretec Employee Health and Wellbeing Policy in place which provides staff access to mental health and wellbeing support.

Louvretec's Employee Induction document outlines our expectations for a safe workplace. We require our employees, suppliers & service providers to be compliant with all applicable laws.

The Louvretec Green team - Monitor, Review, Improve
The Louvretec Green Team meets quarterly with Louvretec Management to discuss
achievements and to address areas needing improvement. This ensures Louvretec Green
stays on a path of steady growth.



6-STAR GREEN STAR RATED BUILDING.
TĀWHARAU LANE, HIGHBROOK, AUCKLAND
"LIKE A KOROWAI (MĀORI CLOAK) IT PROVIDES
PROTECTION PRIMARILY FROM SOLAR GAIN,
WHILE ALSO CELEBRATING THE FIRST 6 GREEN
STAR RATING FOR HIGHBROOK..." JONATHAN
WALKER - JWA ARCHITECTS PRINCIPAL



6-STAR GREEN STAR RATED BUILDING. TĀWHARAU LANE, HIGHBROOK, AUCKLAND



#### Off the grid

#### Solar Powered Spiral Pivot Opening Roofs

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.

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





OUR PRODUCTS HELP PEOPLE LIVE A MORE ENVIRONMENTALLY FRIENDLY LIFESTYLE

#### Explore the Green Side of our Product Range

Sustainability is a top priority in the design industry. Louvretec incorporates sustainability in to our best practice and our product range. Louvretec Opening Roofs & Sun Louvres will always be made from recyclable aluminium.

Louvretec's product range helps create sustainable, aesthetically pleasing, functional, outdoor living spaces that enhance the user's lifestyle and can improve the environmental balance of a home or building.

#### Conscious future

The Louvretec product range helps you future proof your home for your family's changing needs or for the next homeowner to enjoy. Sustainability & innovation go together, along with adaptability. Creating a home that is energy-efficient, equipped with smart products that bring function to the user & that's ready to meet future needs & can evolve for future generations is the key to a comfortable and environmentally conscious future.

#### Easy access for Repair & maintenance

The Louvretec product range is easily cared for (either by Louvrecare which is our after-sales care division, or by the end user). Motors and other working parts have easy access for maintenance which means these can be repaired instead of replaced.





HAND OPERABLE OPENING ROOF WITH CRANK HANDLE

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

#### Remote options

Remote Control technology is constantly changing and upgrading. Please discuss with your local Louvretec Dealer and view our website for current updates.

Key: Remote Compatibility		
opening roofs	outdoor blinds	
louvretec retract  ADI Retract Technology	Lighting 👩	
sun louvres	Heating	

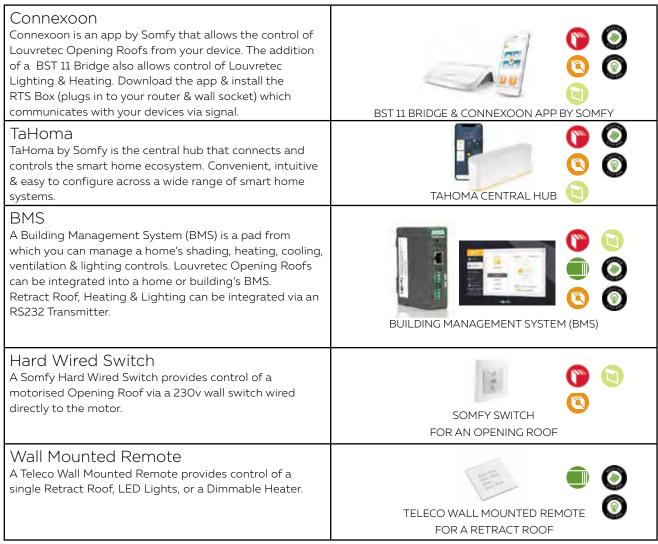
current updates.	By Louvretec By Louvretec
Situo 1 & Smoove 1 Wall Switch The Situo 1 Remote by Somfy is a one-channel handheld remote using Radio Technology Somfy (RTS). Smoove is a wireless wall mounted switch providing the same functionality as a remote. Perfect for controlling a single Opening Roof.	
Situo 5 & Smoove 4 Wall Switch 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.	
Telis 16 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.	
Noon Duo The Noon Duo is a 9-channel handheld remote. The Noon Duo allows control for Louvretec Retract Roofs, Lighting and Heating.	
Daisy App 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.	
Solar Powered 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.	SOLAR POWER OPTION FOR SPIRAL PIVOT OPENING ROOFS

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

#### Remote options

Remote Control technology is constantly changing and upgrading. Please discuss with your local Louvretec Dealer and view our website for current updates.





### **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.

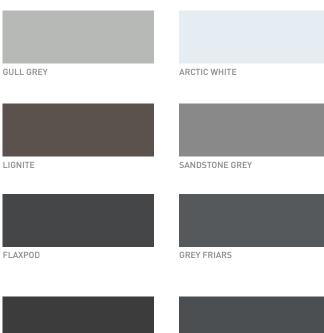


Detailed wiring diagrams Refer Section 14 Electrical Wiring Diagrams for cross section of typical applications of above options

#### SURFACE FINISHES

#### Powdercoating

- All Louvretec powdercoating carries a guarantee on the colour stability and surface finish as set out in both the Louvretec Product Warranty & the Louvretec PS1 document.
- · Choose from over 100 powdercoat colours
- Duluy's Duralloy +PLUS solid range is also available as a powdercoating option. The +PLUS colour range is a collection of popular solid colours delivered with warranty grade advanced highly durable polyester thermosetting powder. The +PLUS range has a 15 year extended colour warranty. Contact Dulux for more information on the +PLUS range.
- Powdercoat options vary between countries. Discuss with your local Louvretec Dealer.









SELECTION OF DULUX DURALLOY SOLID COLOUR POWDERCOAT COLOUR RANGE. CONTACT YOUR DEALER TO VIEW ALL OF THE OPTIONS



SELECTION OF WOODGRAIN & SPECIAL FINISHES

#### SURFACE FINISHES

#### Wood Grain Powdercoating

- A wood grain finish that has been bonded on to the Louvretec product is available. This type of finish looks like timber but the difference being it's durability and lower maintenance
- · Choose from a range of wood grain and special finishes including pale timber colours through to reddish and dark brown timber shades
- · Selection of finishes subject to change
- · Options vary between countries
- · Discuss with your local Louvretec Dealer

# OVERVIEW ANODISED SURFACE FINISHES (NB: SMALL SELECTION ONLY SHOWN CONTACT YOUR DEALER TO VIEW MORE)

#### SURFACE FINISHES

#### Anodising

- Louvretec products are constructed of aluminium and can be anodised providing a beautiful matte sheen and a durable tough wearing finish.
- · Colour choices include natural silver, black and bronze
- Anodised finishes provide a unique look designed to subtly change in appearance as the light conditions alter in the day and according to the angle at which they are viewed.
- Contact Louvretec for an anodised colour swatch to view in natural light.
- · Anodised options vary between countries.
- · Discuss with your local Louvretec Dealer.



A SELECTION OF MATT NATURAL ANODISED & ELECTROLYTIC ANODISED COLOURS

CONTACT YOUR DEALER TO VIEW YOUR ANODISED OPTIONS



IN-HOUSE EXPERIENCED LOUVRECARE MAINTENANCE & VALET TECHNICIANS





## LOUVRECARE

#### Preventative maintenance and valet

Regular, scheduled servicing by a Louvrecare team has real benefits.

Louvrecare Service teams are in-house, experienced technicians keeping your

Louvretec product in good working order & optimum performance.

The Louvrecare programme is optional. Select as many service intervals as you require.

Louvrecare is available for any Louvretec product no matter how old.

#### A Louvrecare service includes

- · Comprehensive cleaning of your Louvretec product
- · Testing of moving parts
- · Seals checked
- · General wear and tear checked
- Replacement componentry if needed (as covered under the standard Louvretec Product Warranty).
- · Louvrecare can vary between Dealerships. Discuss with your local Louvretec Dealer.





## **WARRANTY**

#### Product Specific Warranties

#### Peace of Mind

The complete range of Louvretec Products are covered by product specific warranties





Opening Roofs Section 2
Lighting Section 7
Sun Louvres Section 10
Shutters Section 12





Retract Roofs Section 3

Slidetec Frameless
Glass Sliding Door Panels Section 5





Outdoor Blinds Section 6





Lighting Section 7

Heating Section 8









# **OPENING ROOF OPTIONS**

Refer to Opening Roofs Section 2





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 & SUBURBAN SOLAR PG 2.35 PG 2.14



270 TRANSLUCENT ROOF PG 2.39

## **RETRACT ROOF OPTIONS**

Refer to Retract Roof Section 3





220/35 SLIMLINE RETRACT PG 3.12



220/45 SLIMLINE ALPINE RETRACT PG 3.15

# AIRFOIL SUN LOUVRE OPTIONS

Refer to Sun Louvres Sections 10 - 10.5









PG 10.2.20

300 MAXI LOUVRE PG 10.4.32



600 MAXI LOUVRE PG 10.4.32





# RECTANGULAR SUN LOUVRE OPTIONS

Refer to Sun Louvres Sections 10 - 10.5



95 BELLA VISTA LITE LOUVRE PG 10.1.10



120 FLUSH MINI LOUVRE PG 10.2.29



125 WEATHERBOARD LOUVRE PG 10.4.26



135 HI SPAN BALUSTRADE LOUVRE NZ COMPLIANT PG 10.2.38



95 BELLA VISTA HEAVY LOUVRE PG 10.1.11



180 FLUSH MIDI LOUVRE PG 10.2.31



180 WEATHERBOARD LOUVRE PG 10.4.27



165 HI SPAN BALUSTRADE LOUVRE AUSTRALIAN COMPLIANT PG 10.2.42



200 FLUSH MAXI LOUVRE PG 10.2.33



150 HELENA BAY LOUVRE PG 10.4.25

# RECTANGULAR RL SUN LOUVRE OPTIONS

Refer to Sun Louvres Sections 10 - 10.5



RL 300 SQUARE LOUVRE PG 10.4.40



RL 300 MITRE LOUVRE PG 10.4.40



RL 450 SQUARE LOUVRE PG 10.4.41



RL 450 MITRE LOUVRE PG 10.4.41



RL 600 SQUARE LOUVRE PG 10.4.42



RL 600 MITRE LOUVRE PG 10.4.42

GLOBAL 24/7

### RIGHT HERE

With 45 Dealers located around the world, our network of authorised Louvretec Dealerships make it easy for you to discover and view the product range up close and personal.

Louvretec New Zealand Dealers (a small selection of our Dealer network)









WAIKATO, NZ

NORTHLAND, NZ AUCKLAND HEAD OFFICE, NZ LOUVRETEC EXPORT DIVISION AIRBORNE RD, AKL, NZ









BAY OF PLENTY, NZ

TAUPO & HAWKE'S BAY, NZ

GISBORNE, NZ

TARANAKI, NZ









MANAWATU, NZ

WELLINGTON, NZ

NELSON, BLENHEIM, MARLBOROUGH, NZ

CANTERBURY, NZ









TIMARU, NZ CROMWELL, QUEENSTOWN, NZ

DUNEDIN, NZ

SOUTHLAND, NZ

Louvretec Asia & Louvretec South Pacific Dealers



HONG KONG

The Netherlands



THE NETHERLANDS





CANADA

**NEW YORK** 

SINGAPORE

BARBADOS BAY AREA & SACRAMENTO, CA

## IN YOUR NEIGHBOURHOOD

Visit our Locations page on our website to find your closest Louvretec Dealer. www.louvretec.com

Louvretec Australia Dealers (a selection of our Dealer network)



MURWILLUMBAH, NSW MANUFACTURING FACTORY



TOWNSVILLE, QLD



BRISBANE, QLD



BALLINA, NSW



COFFS HARBOUR, NSW



PORT MACQUARIE, NSW



SYDNEY NORTH, GOSFORD, NEWCASTLE, NSW



SYDNEY, NSW



ORANGE, NSW



WOLLONGONG, NSW MANUFACTURING FACTORY



WOLLONGONG, NSW



MITTAGONG, NSW



ILLAWARRA, NSW



CANBERRA, ACT



BATEMANS BAY, NSW





BAIRNSDALE, VIC



MELBOURNE, VIC



TASMANIA, TAS



ADELAIDE, SA



PERTH, WA



DENVER, CO



BAY AREA & SACRAMENTO, CA



HOUSTON, TX



Louvretec USA Dealers

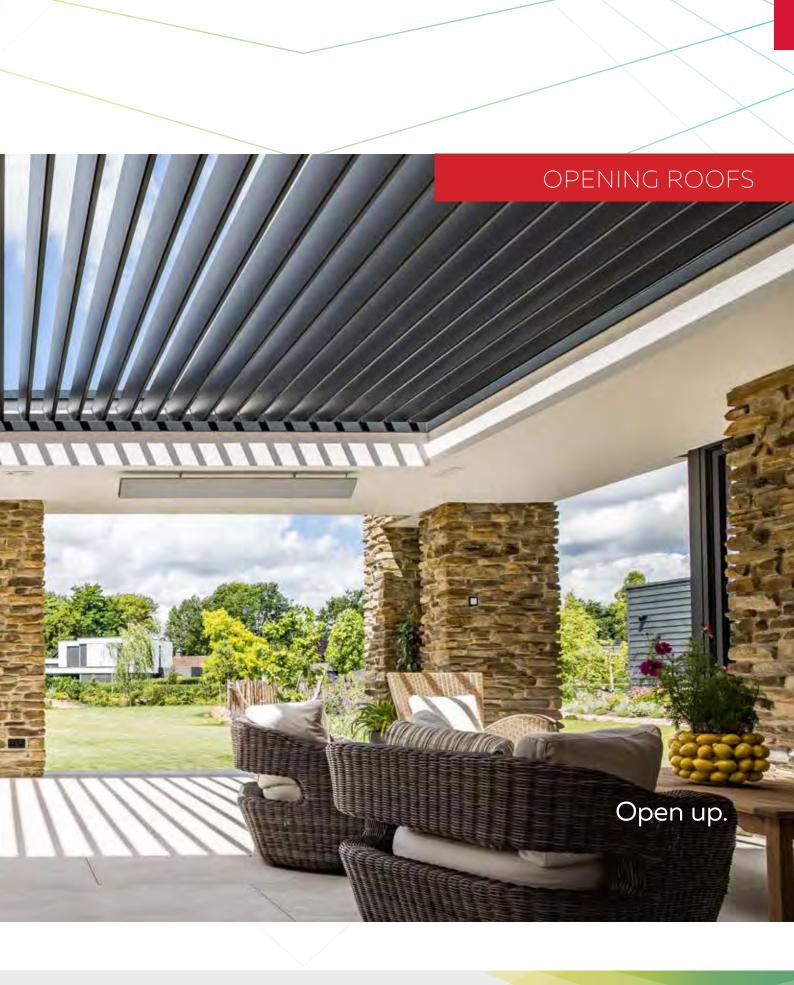
SAN DIEGO, CA





Gallery	2.04 - 2.05
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Motor Location & Clearances	2.09
Blade Direction	2.10
Louvretec Structural Frame	2.11 - 2.12
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Solar Powered Opening Roofs	2.14
Opening Roof Blades & Gutter Options	2.15
Box Section Frames, Posts & Flashings	2.16
Remote Control Options	2.17 - 2.18
180/30 Slimline Roof	2.19 – 2.22
200/35 Slimline Roof	2.23 - 2.26
220/35 Slimline Roof	2.27 – 2.30
220/45 Alpine Roof	2.31 – 2.34
200 Suburban Roof	2.35 – 2.38
270 Translucent Roof	2.39 – 2.42
Warranty	2.43 - 2.44



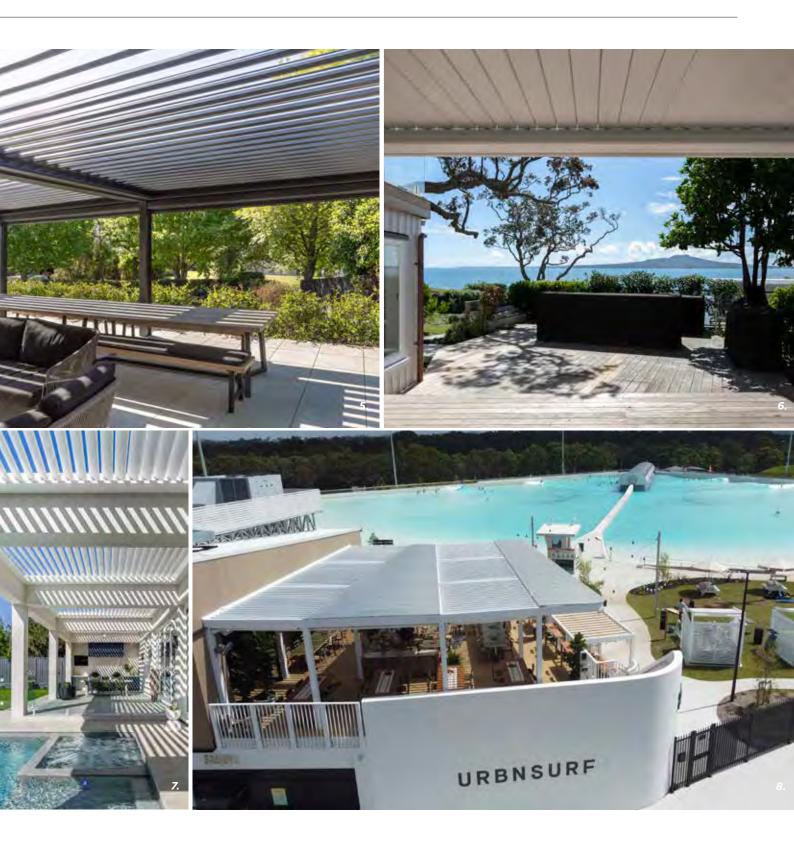












# ALL NEW FOR 2025 INTRODUCING THE LOUVRETEC SLIMLINE RANGE OF OPENING ROOFS

# 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

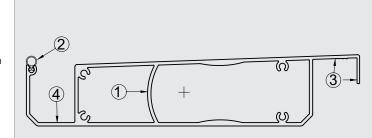


& Louvretec Australia Pty Ltd.





#### 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



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



LOW WIND SPEED



## THE LOUVRETEC RANGE OF OPENING ROOFS

Award Winning Spiral Pivot System Opening Roofs & Retract Compatible Roofs



Spiral Pivot Opening Roofs pivot blades open & closed

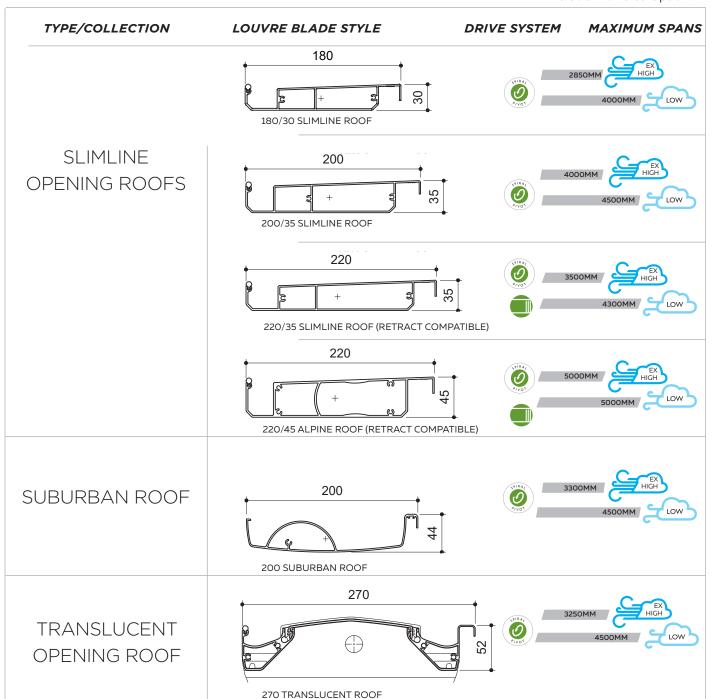
louvretec retract Retract Roofs

ADI Retract Technology pivot open & c

Retract Roofs pivot open & closed and also Retract back!



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





## **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 Downunder provides for the cleanest look imaginable. Now available on request on all Opening Roofs.



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



DOWNUNDER SPIRAL PIVOT



#### 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.

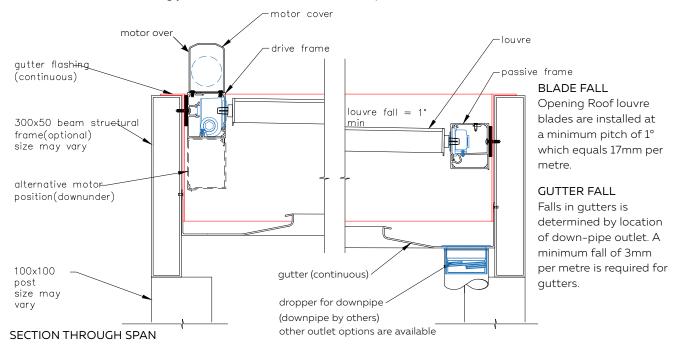


HAND OPERATED SPIRAL PIVOT

## **DETAILS AT A GLANCE**

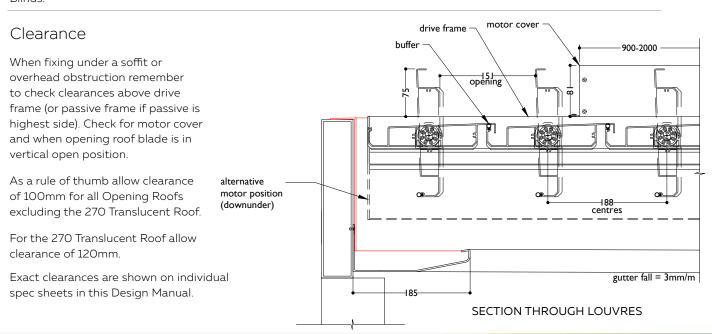
#### Motor location

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.



#### 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.

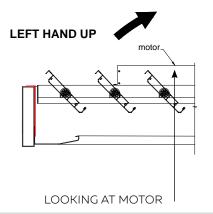


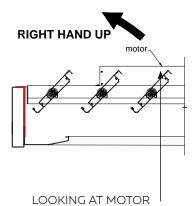


## **DETAILS AT A GLANCE**

#### 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.

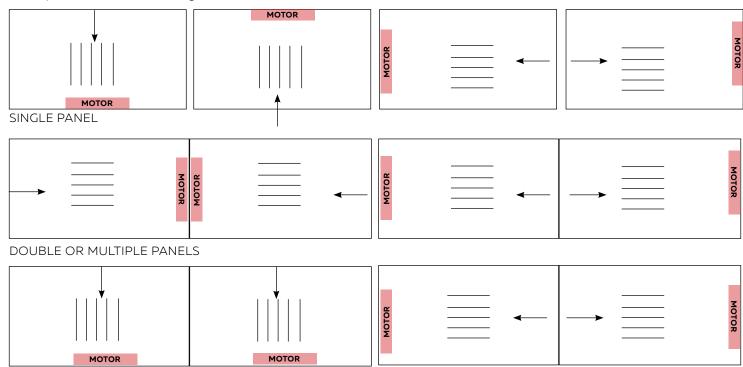






#### DIFFERENT CONFIGURATIONS

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.



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





150X50X3 2/150X50X3





200X50X3 2/200X50X3











300X50X3 2/300X50X3.5

**BEAM SIZES** 



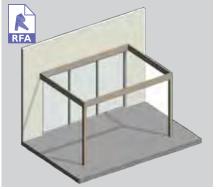
## THE LOUVRETEC STRUCTURAL FRAME

#### Engineered aluminium frame for Opening Roofs

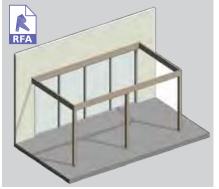
- Louvretec offers a fully engineered Structural Aluminium Frame system designed specifically for Opening Roofs and Outdoor Rooms.
- Beams and posts are custom designed to be structurally compliant to the specific wind zone.
- Louvretec Structural Frames provide for clean, aesthetically pleasing lines 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.







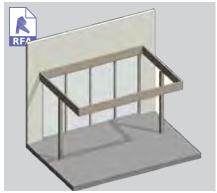




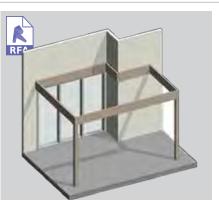
LENGTH EXTENDED - CONTINUOUS SPAN



WIDTH EXTENDED







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



PG 2.35 & SUBURBAN SOLAR PG 2.14



270 TRANSLUCENT ROOF PG 2.39

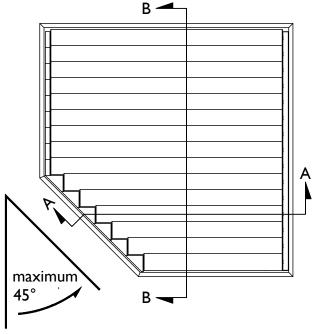




# **OPENING ROOFS - RAKING FRAMES**

### Customised outdoor spaces

No matter the shape, a Louvretec Raking Outdoor Roof can be designed to fit to any angle up to  $45^{\circ}$ .





**RAKING ROOF** 



## OFF THE GRID

Solar Powered Spiral Pivot Opening Roofs New Technology

# LouvreTec

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.



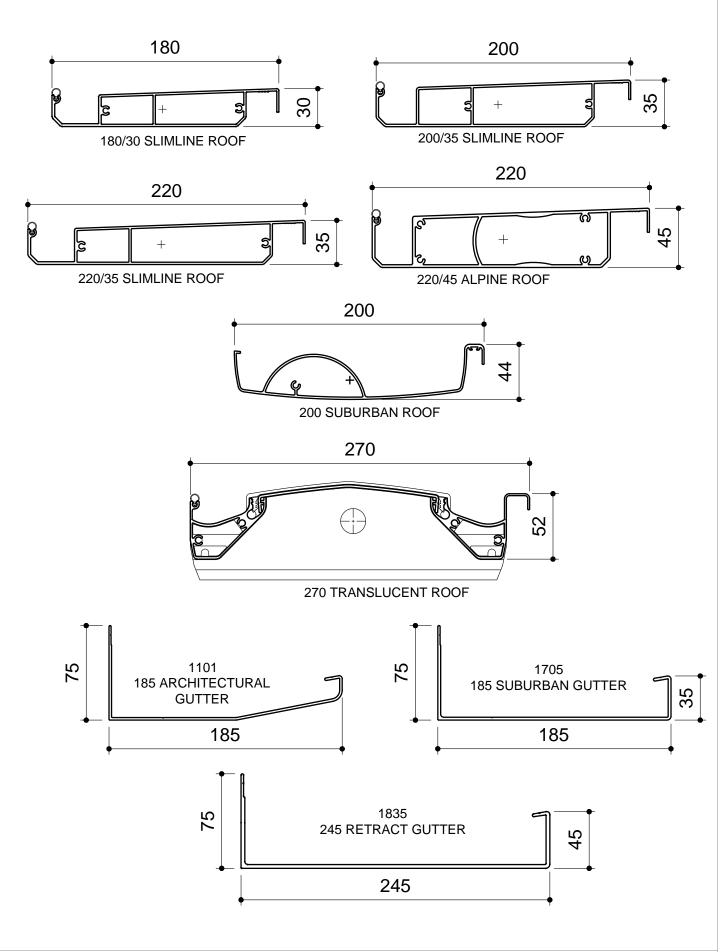
SOLAR POWERED OPENING ROOF



FREESTANDING, SOLAR POWERED OPENING ROOF



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

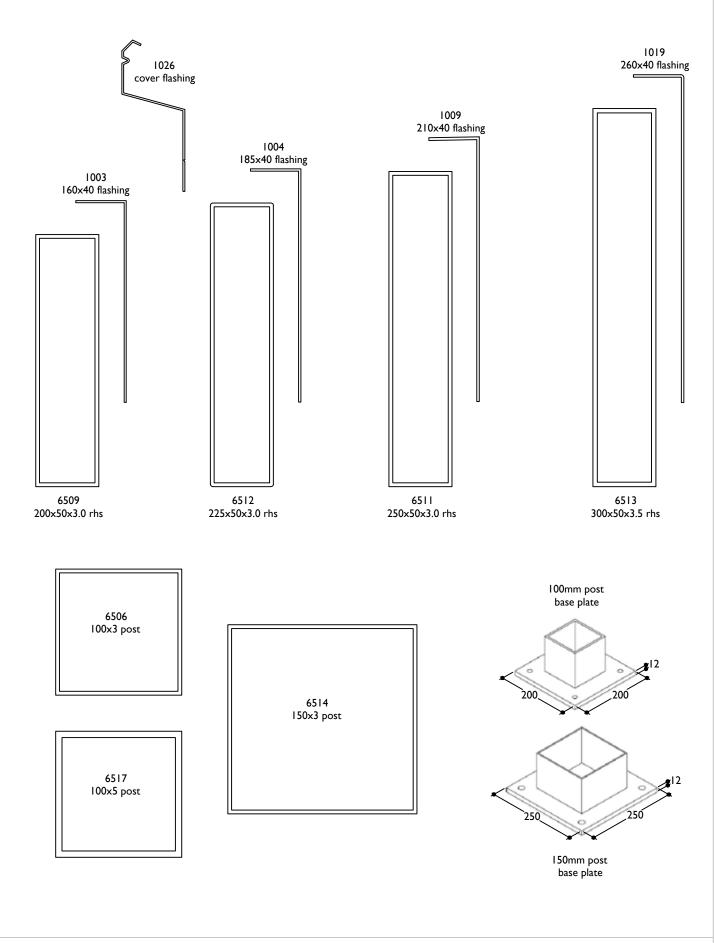


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#### TYPICAL DETAIL: LOUVRETEC RANGE OF BOX SECTION FRAMES, POSTS & FLASHING





# Key: Remote Compatibility opening roofs outdoor blinds Outdo

# 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.

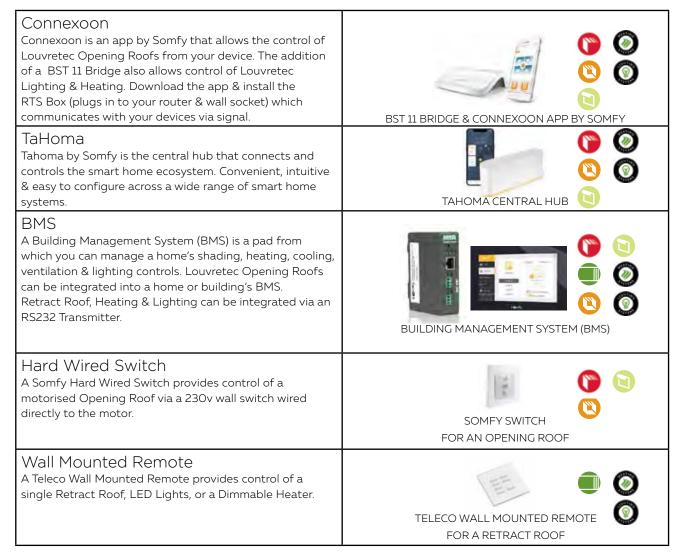
COTISC	antly changing and upgrading. Please discuss with your Deale
Situo 1 & Smoove 1 Wall Switch The Situo 1 Remote by Somfy is a one-channel handheld remote using Radio Technology Somfy (RTS). Smoove is a wireless wall mounted switch providing the same functionality as a remote. Perfect for controlling a single Opening Roof.	
Situo 5 & Smoove 4 Wall Switch 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.	
Telis 16 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.	
Noon Duo The Noon Duo is a 9-channel handheld remote. The Noon Duo allows control for Louvretec Retract Roofs, Lighting and Heating.	
Daisy App 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.	
Solar Powered 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.	SOLAR POWER OPTION FOR SPIRAL PIVOT OPENING ROOFS

# 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.





## **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.







PURPOSE BUILT OUTDOOR LIVING AREA BY LOUVRETEC AUCKLAND

# -21---

180/30 SLIMLINE BLADE





#### MOTORISED OR HAND OPERATED

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





## 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



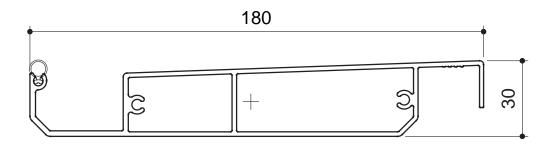
SURFACE FINISHING OPTIONS
A wide range of options are available.

POWDERCOAT WOODGRAIN & METALLIC ANODISED SPECIAL FINISHES

#### 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	1 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	4000	4000	3750	3200	2850
180/30 Slimline Roof <b>6m Height</b>		4000	4000	3300	2800	2500

#### **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

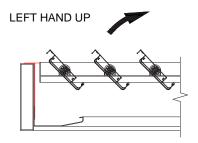
Blade cover	2884
+2/22mm clearance @ ends	=44
Total exact pivot length	=2928

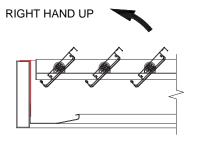
Extra width 185mm gutter provides cover if clearance increases

over 22mm at ends.

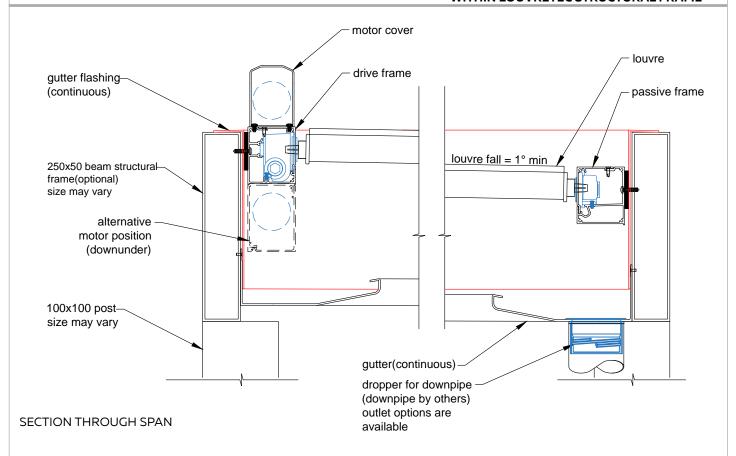
Blade direction either Right Hand up or Left Hand up.

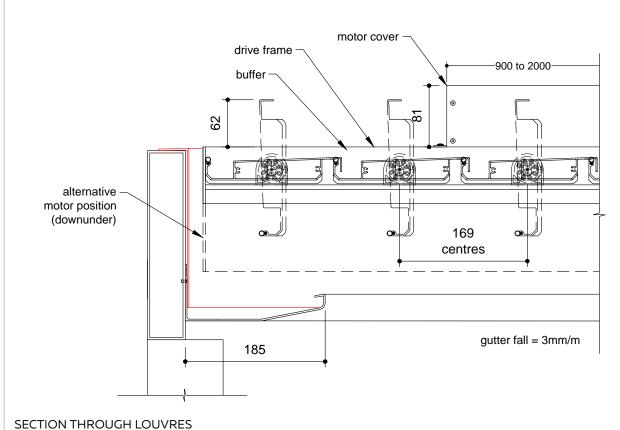
#### CHOOSE DIRECTION OF BLADE PIVOT





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





SECTION THICOGET EGOVICES

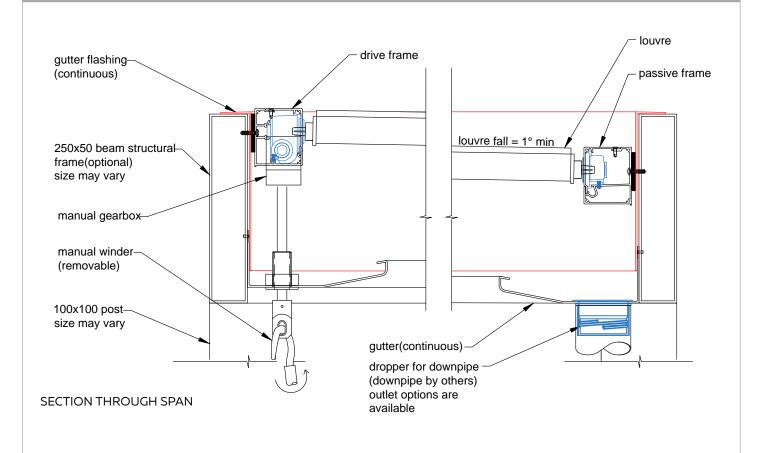
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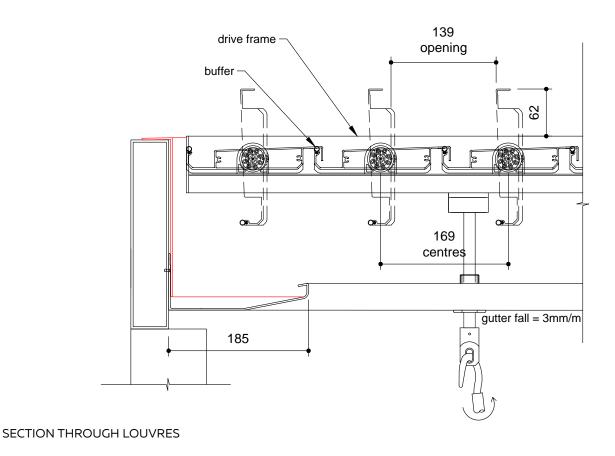
www.louvretec.com.au

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











CONTROLLABLE OUTDOOR LIVING SPACE CREATION. BY LOUVRETEC AUCKLAND

200/35 SLIMLINE BLADE





#### MOTORISED OR HAND OPERATED

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





# 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



SURFACE FINISHING OPTIONS

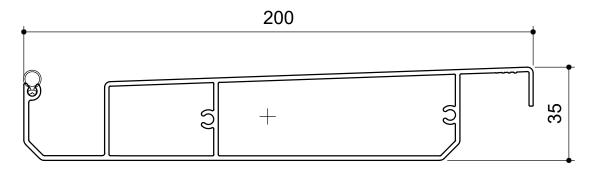
A wide range of options are available.

POWDERCOAT WOODGRAIN & METALLIC ANODISED SPECIAL FINISHES

#### **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 syster	n 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

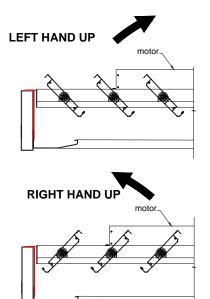
Blade cover	3208
+2/22mm clearance @ ends	+ 44
Total exact pivot length	= 3252

Extra width 185mm gutter provides cover if clearance increases

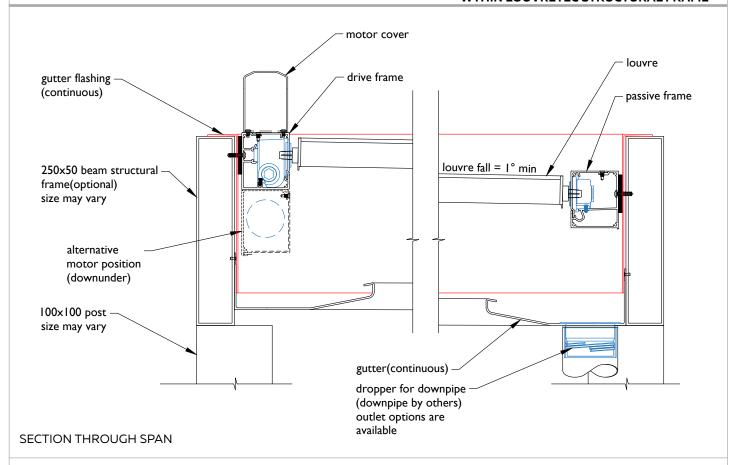
over 22mm at ends.

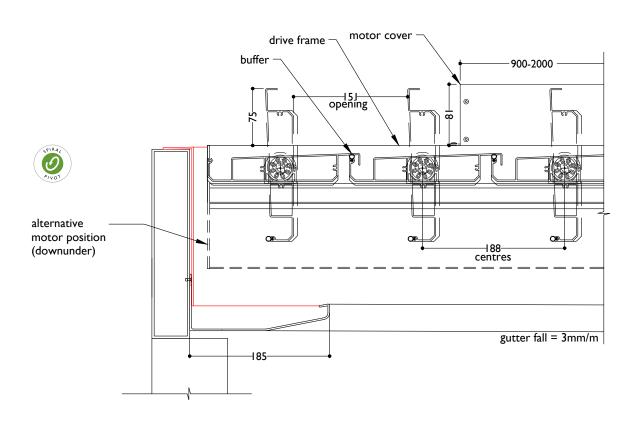
Blade direction either Right Hand up or Left Hand up.

#### CHOOSE DIRECTION OF BLADE PIVOT



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





SECTION THROUGH LOUVRES

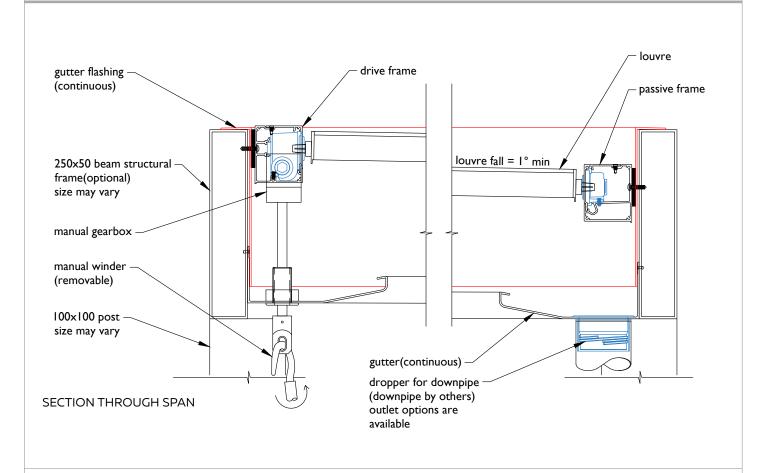
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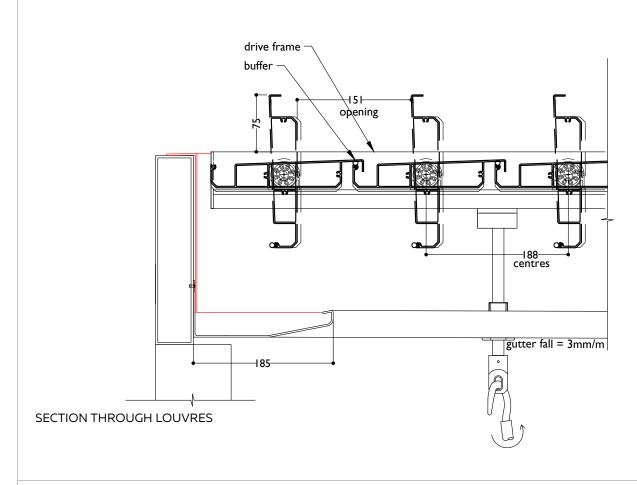
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# TYPICAL DETAIL: MANUAL 200/35 SLIMLINE ROOF WITHIN LOUVRETEC STRUCTURAL FRAME











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



220/35 SLIMLINE ROOF BLADE Available Spiral Pivot or Retract







#### MOTORISED OR HAND OPERATED

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





## 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
- $\cdot$  Larger blade gutter incorporated for extra stormwater dispersal



SURFACE FINISHING OPTIONS
A wide range of options are available.







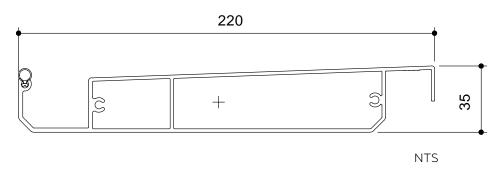
WOODGRAIN &
SPECIAL FINISHES

METALLIC ANODISED

#### **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

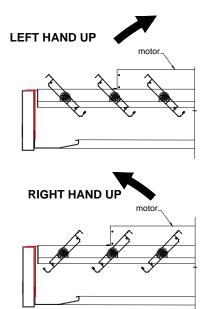
Blade cover	3500
+2/22mm clearance @ ends	=44
Total exact pivot length	=3544

Extra width 185mm gutter provides cover if clearance increases

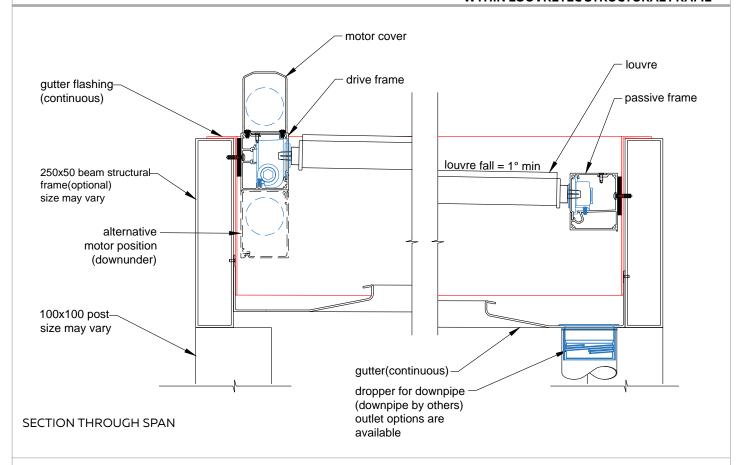
over 22mm at ends.

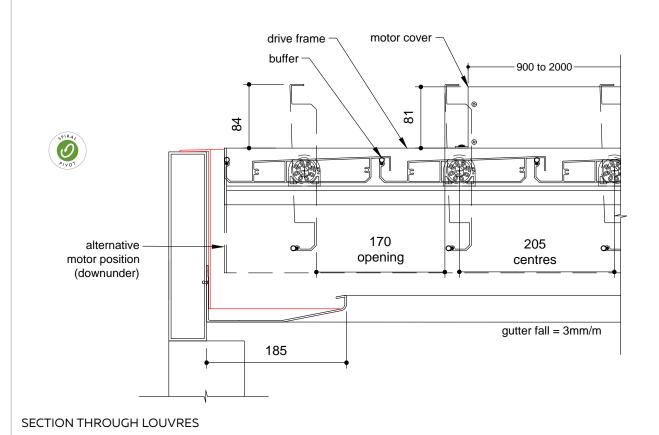
Blade direction either Right Hand up or Left Hand up.

#### CHOOSE DIRECTION OF BLADE PIVOT



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





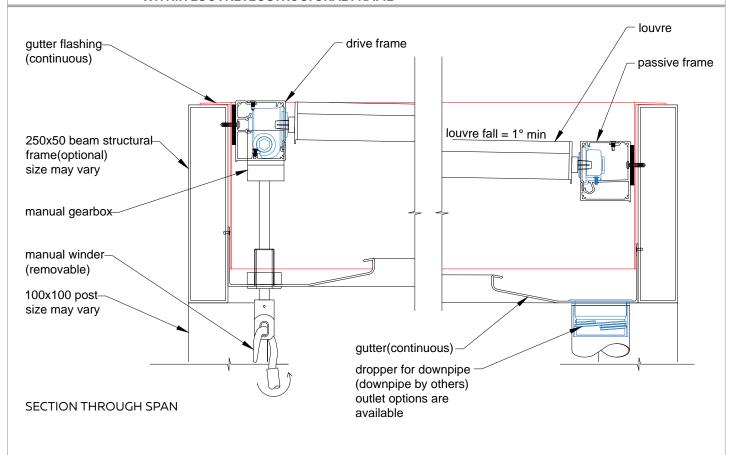
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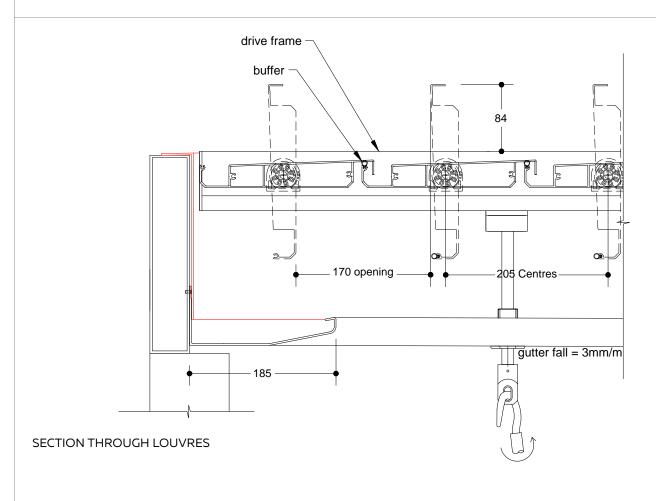
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## TYPICAL DETAIL: MANUAL 220/35 SLIMLINE ROOF WITHIN LOUVRETEC STRUCTURAL FRAME











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
- $\cdot$  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



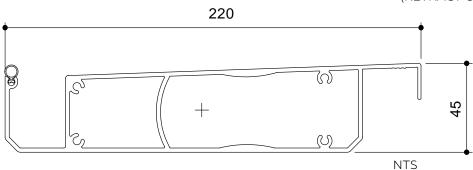




#### **OPENING ROOFS SPECIFICATIONS**



## 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

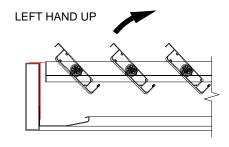
Blade cover 3500 +2/22mm clearance @ ends + 44 Total exact pivot length = 3544

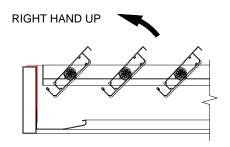
Extra width 185mm gutter provides cover if clearance

increases over 22mm at ends.

Blade direction either right hand up or left hand up.

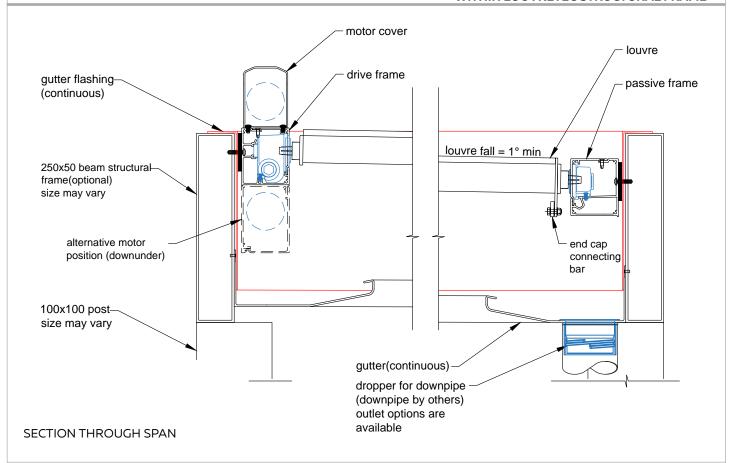
#### CHOOSE DIRECTION OF BLADE PIVOT

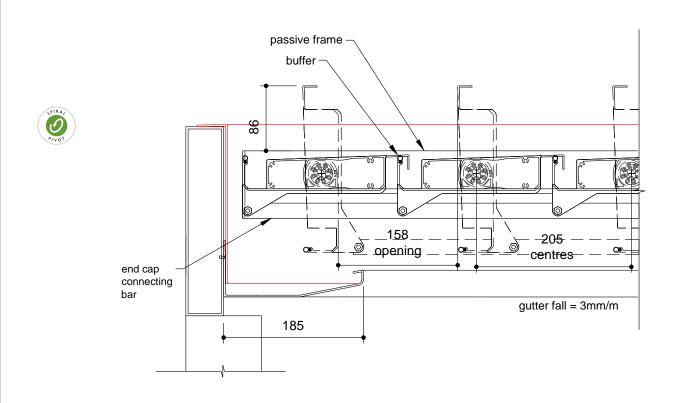






## TYPICAL DETAIL: MOTORISED 220/45 ALPINE ROOF WITHIN LOUVRETEC STRUCTURAL FRAME





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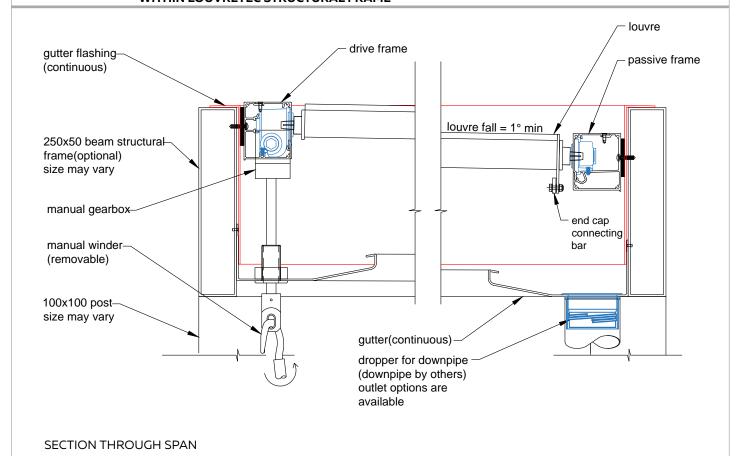
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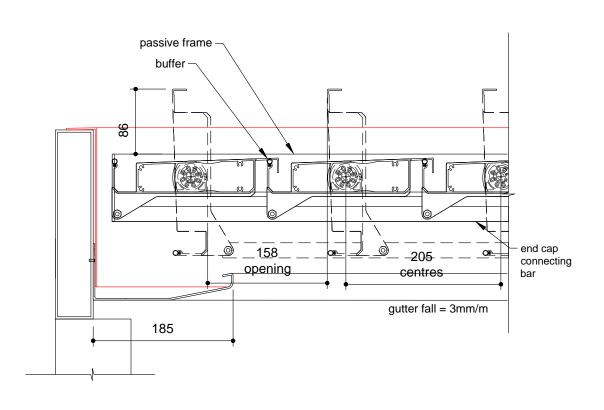
SECTION THROUGH LOUVRES

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













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





#### MOTORISED OR HAND OPERATED

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







SURFACE FINISHING OPTIONS

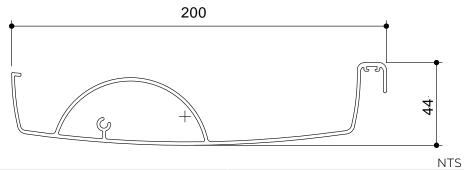
A wide range of options are available.

POWDERCOAT WOODGRAIN & METALLIC ANODISED SPECIAL FINISHES

#### **OPENING ROOFS SPECIFICATIONS**



#### TECHNICAL DETAILS 200 SUBURBAN ROOF



BLADE SPECIFICATIONS			
Blade cover - opening system	188 mm	Weight per linear metre - opening system	1.928 kg/lm
Weight per square metre - opening system	10.25 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
		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

#### STEP1

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

#### STEP 2

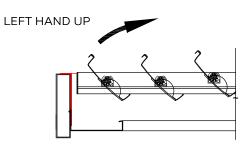
Blade cover	3208
+2/22mm clearance @ ends	= 44
Total exact pivot length	= 3252

Extra width 185mm gutter provides cover if clearance increases

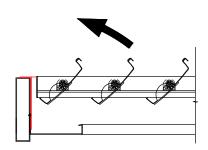
over 22mm at ends.

Blade direction either Right Hand up or Left Hand up.

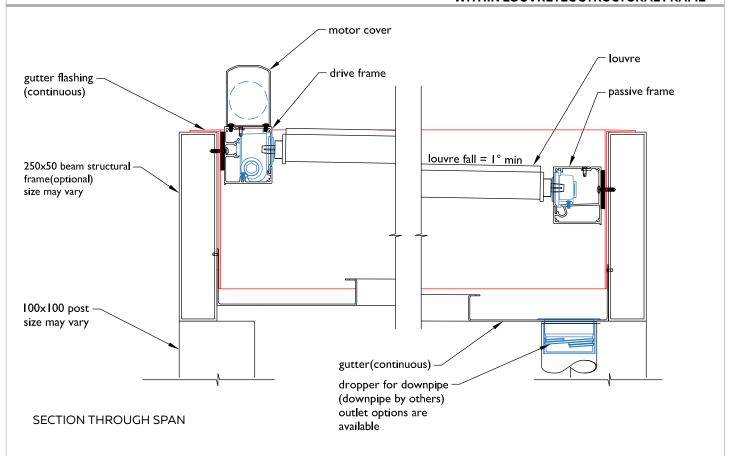
#### CHOOSE DIRECTION OF BLADE PIVOT

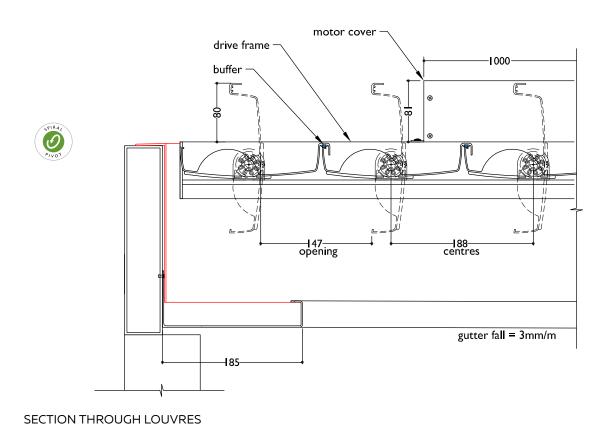


RIGHT HAND UP



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





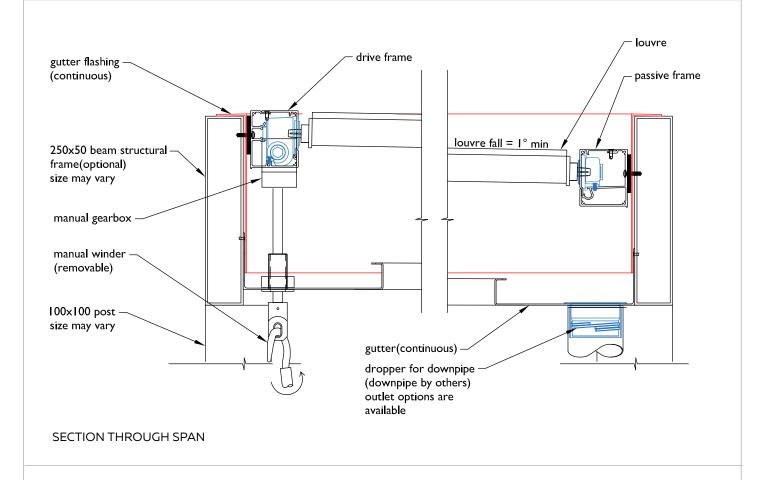
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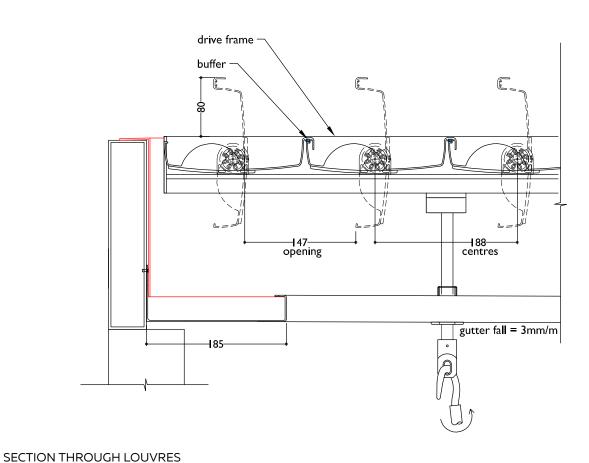
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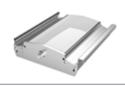


## TYPICAL DETAIL: HAND OPERABLE 200 SUBURBAN ROOF WITHIN LOUVRETEC STRUCTURAL FRAME











A FILTERED LIGHT-FILLED OUTDOOR ROOM BY LOUVRETEC AUCKLAND



270 TRANSLUCENT ROOF BLADE





#### MOTORISED OR HAND OPERATED

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





#### 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.

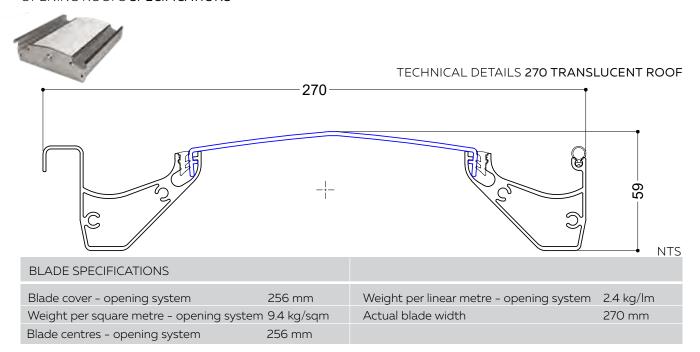


SURFACE FINISHING OPTIONS

A wide range of options are available.

POWDERCOAT WOODGRAIN & METALLIC ANODISED SPECIAL FINISHES

#### **OPENING ROOFS SPECIFICATIONS**



#### 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

#### STFP 1

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

#### STEP 2

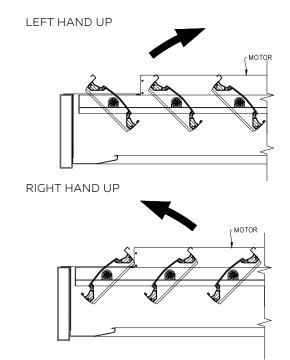
Blade cover 4366 +2/22mm clearance @ ends = 44 Total exact pivot length = 4410

Extra width 185mm gutter provides cover if clearance increases

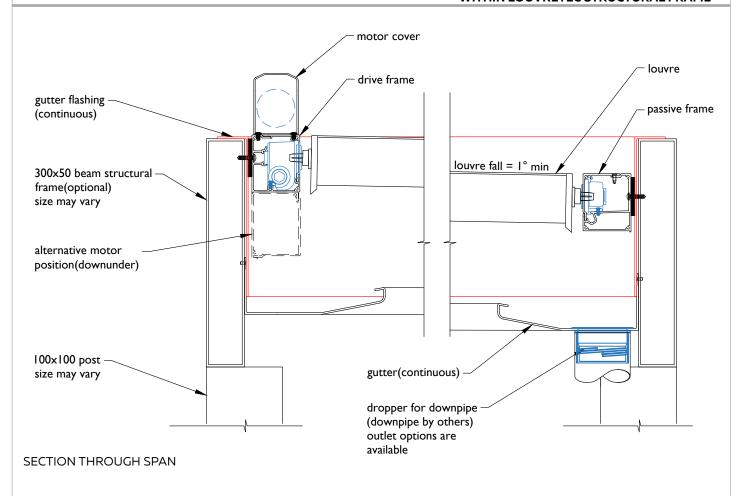
over 22mm at ends.

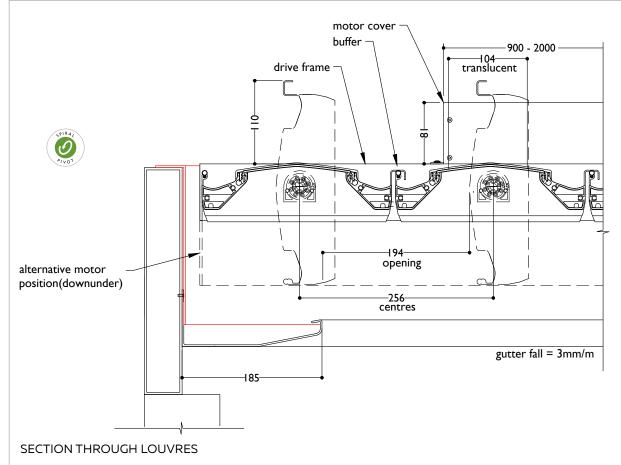
Blade direction either Right Hand up or Left Hand up.

#### CHOOSE DIRECTION OF BLADE PIVOT



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





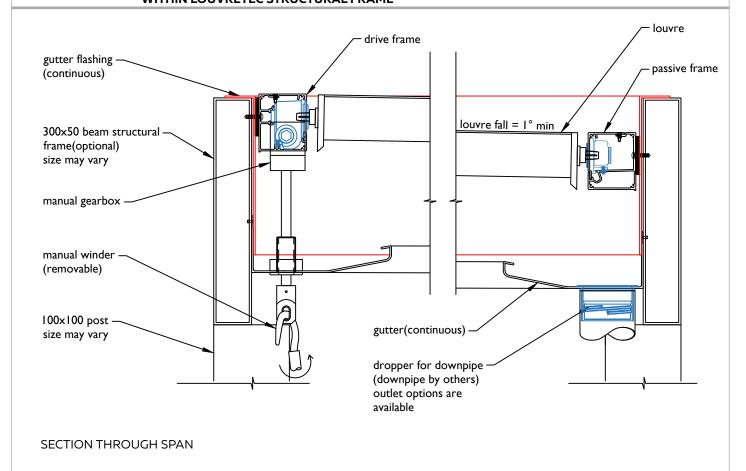
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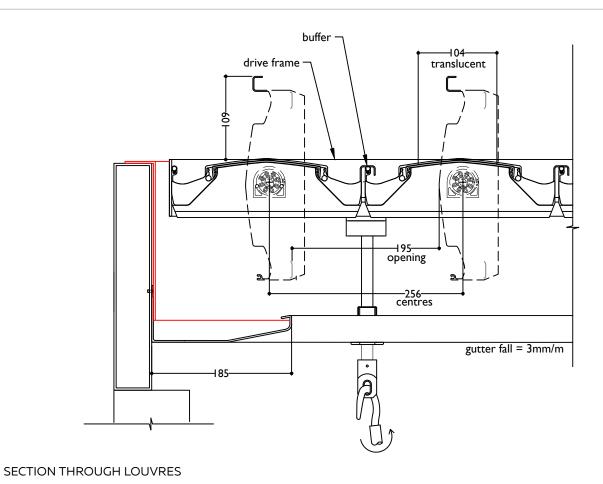
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## TYPICAL DETAIL: MANUAL 270 TRANSLUCENT ROOF WITHIN LOUVRETEC STRUCTURAL FRAME







#### 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.

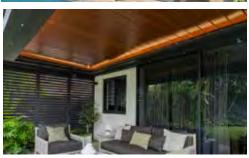
#### Louvrecare:

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 PRODUCT WARRANTY

#### **OPENING ROOFS - SUN LOUVRES - SHUTTERS**

warranty details	All product installed by Louvretec (excluding Outoor 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 anosided 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 NZ LTD

Head office: 23c Douglas Alexander Parade, Albany 0632, Auckland New Zealand

T +64 9 415 4949

E info@louvretec.co.nz

Site Adddress \_

www.louvretec.com

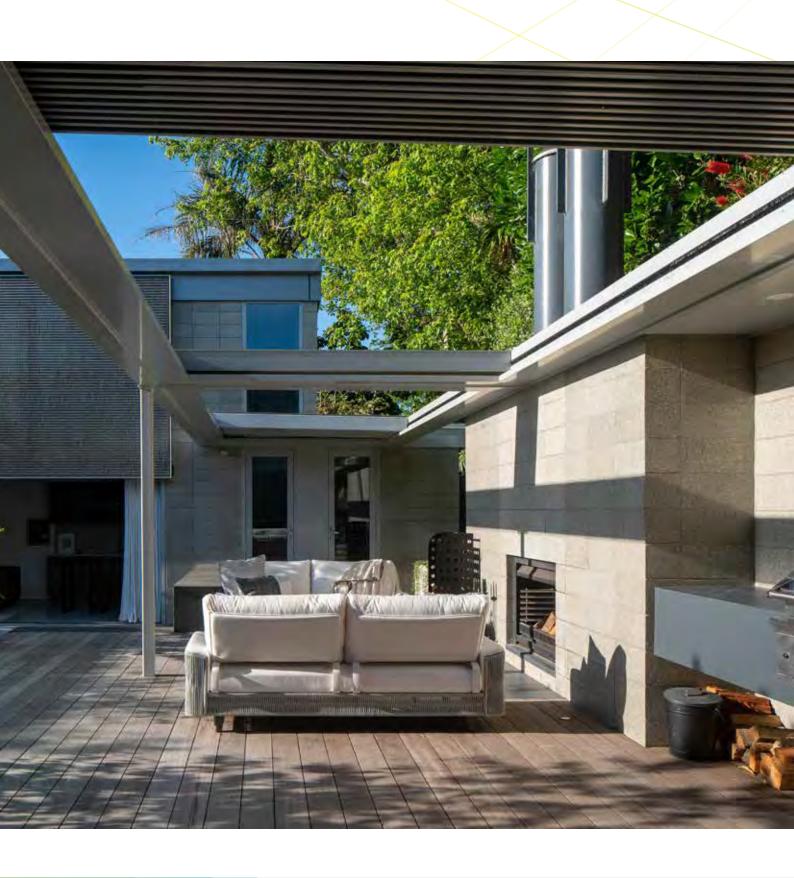


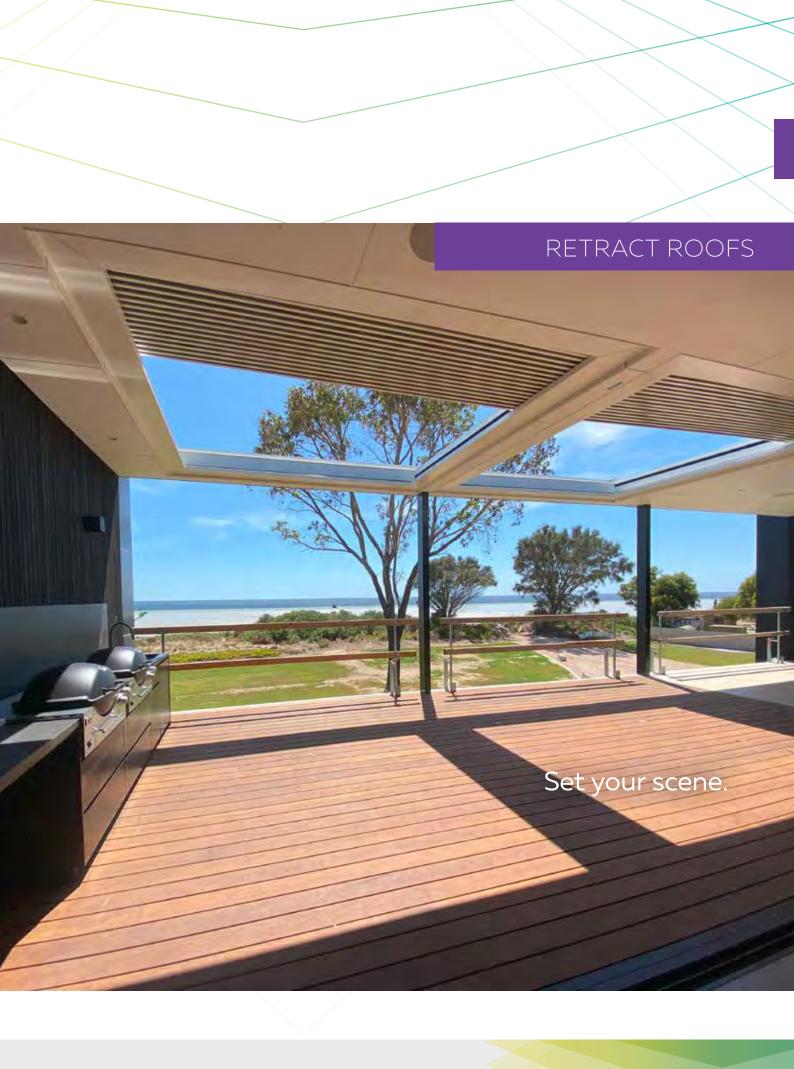






Retract Roofs Gallery & Overview	3.02- 3.05
Range & Configuration options at a glance	3.06 - 3.10
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220/45 Alpine Retract Roof	3.14 - 3.17
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Electrical Wiring Locations & Power to Controller	3.23
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4 Sided Frame Configurations & Calculations	3.27 - 3.35
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Remote Controller	3.37
Retract After Sales Care	3.38
Safe operation of Louvres	3.39
Warranty - info	3.40 - 3.41





#### RETRACT ROOFS GALLERY









- 1. RETRACT ROOFS IN 4 SIDED FRAME. PALM BEACH, NSW, AU | 2. RETRACT ROOFS AT SORA RESTAURANT, ADELAIDE, AU
- 3. DOUBLE RETRACT ROOFS, TAKAPUNA BEACH, NZ | 4. RETRACT ROOF RETRACTED BACK, BRONTE, NSW, AUS



ON THE CANAL, QUEENSLAND, AU



220/35 SLIMLINE RETRACT ROOF BLADE SHAPE (RETRACT & SPIRAL PIVOT COMPATIBLE)



## INTRODUCING THE LOUVRETEC SLIMLINE RANGE OF RETRACTING ROOFS

## These blades are also Spiral Pivot Opening Roof compatible

Louvretec's new range of Retract Roofs incorporates new Slimline design including quiet closing on to a bulb seal strip - so an extra snug fit & additional overlap cover is achieved when closed.

Louvretec Slimline is a completely new Louvre Roof range, developed for both Retract and standard Opening Roof usage.

#### Slimline Retract Roof Key Features

Available in two sizes;

- 220/35 Slimline Retract Roof (Retract Roof & Spiral Pivot Opening Roof Compatible!)
- 220/45 Alpine Retract Roof (Retract Roof & Spiral Pivot Opening Roof Compatible!)
- · Sleek, functional design, clean and uncluttered when open or closed
- · Design strength of an extruded double box-section
- · Somfy powered
- · "Cushion Closing" onto a bulb seal strip
- · Increased closing cover angle for added weather protection
- $\cdot$  Larger blade gutter incorporated for extra storm-water dispersal

#### Now powered by Somfy

The same tried and true motorisation that operates our award winnning Spiral Pivot system now operates our Retracts - Two Somfy Motors per Retract.

#### Customised Louvretec Controller

A wireless handheld remote, custom made for Louvretec by Teleco Italy is standard. These multi-function remotes can also control lighting, heating and other Somfy powered items such as motorised outdoor blinds.

## Proudly NZ & Australian designed and manufactured

All jointly designed, manufactured and distributed worldwide by Louvretec NZ Ltd & Louvretec Australia Pty Ltd.

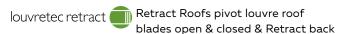
RETRACT ROOF BLADES, SPANS & CONFIGURATION OPTIONS

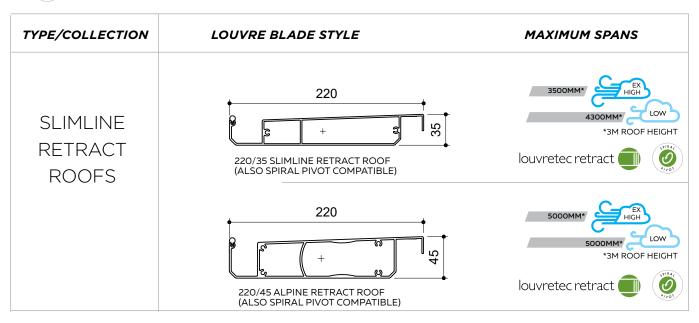
#### THE LOUVRETEC RANGE OF RETRACT ROOFS

Somfy powered new 'Slimline' Retract Roofs & Spiral Pivot Compatible Roofs



Spiral Pivot Opening Roofs pivot louvre roof blades open & closed





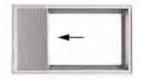
#### RETRACT ROOFS CONFIGURATION OPTIONS



#### OPTION 1

#### THREE SIDED FRAME - BLADES STACK TO REAR

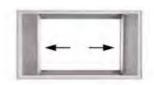
- · No front beam, blades stack to rear
- · Can be even or uneven number of blades



#### **OPTION 2**

#### FOUR SIDED FRAME - BLADES STACK TO ONE END

- · Blades can stack to either one end
- · Can be even or uneven number of blades



#### OPTION 3

#### FOUR SIDED FRAME - BLADES STACK AT EACH END

- · Blades split stack from centre to each end
- · Must be even number of blades



#### OPTION 4

#### FOUR SIDED FRAME - DOUBLE RETRACT (MID-BEAM MAY BE REQUIRED)

- · Two Retracts meeting at mid-beam
- $\cdot$  No mid-beam gutter required, blades close onto mid-beam flashing
- · Blades stack from centre to each end
- · Can be even or uneven number of blades
- · Maximum length; up to 13.734mm



#### OPTION 1: 3 SIDED FRAME, BLADES STACK TO REAR



3 SIDED FRAME, BLADES IN CLOSED POSITION



3 SIDED FRAME, BLADES STACK TO REAR

#### OPTION 2: 4 SIDED FRAME, BLADES STACK TO ONE END



4 SIDED FRAME, BLADES IN CLOSED POSITION



4 SIDED FRAME, BLADES STACK TO ONE END

#### OPTION 3: 4 SIDED FRAME, BLADES STACK TO BOTH ENDS



4 SIDED FRAME, BLADES IN CLOSED POSITION



4 SIDED FRAME, BLADES STACK EVENLY TO BOTH ENDS

OPTION 4: 4 SIDED FRAME, DOUBLE RETRACT WITH MID-BEAM BLADES STACK EVENLY OR UNEVENLY TO BOTH ENDS



4 SIDED FRAME, DOUBLE RETRACT WITH MID BEAM, BLADES IN CLOSED POSITION



4 SIDED FRAME, DOUBLE RETRACT WITH MID BEAM, BLADES STACKED EVENLY OR UNEVENLY TO BOTH ENDS





OUTSIDE IN YOUR COMFORT ZONE BY LOUVRETEC SYDNEY NORTH



220/35 Slimline Retract Roof BLADE



SURFACE FINISHING OPTIONS

LOUVRETEC MULTI-CHANNEL CONTROLLER Custom programmed.

# A wide range of options are available. POWDERCOAT WOODGRAIN & METALLIC ANODISED

SPECIAL FINISHES

#### 220/35 SLIMLINE RETRACT ROOF

A Multi-purpose Louvre blade compatible as a Retract Roof, as well as a Standard Spiral Pivot Opening Roof. Very versatile!

The multi-purpose 220/35 Slimline Retract ROOF combines sleek, clean modern design along with excellent spanning capacity. Because the 220/35 Slimline Louvre is compatible with not only the Retract system but also as an Opening Roof it's a great choice for large, residential installations with multi Louvretec product applications.

#### **Key Features**

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

#### Clean uncluttered lines

At only 35mm high with a tapering topside, the blades stack superbly and cast minimal shadow when in use.

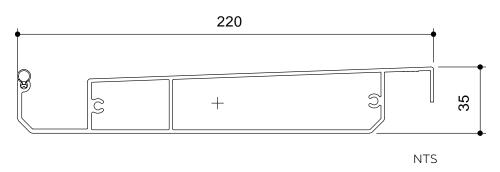
All the operating mechanism, electronics and motors are incorporated within the side frame extrusions, completely hidden from sight and protected from the weather.

Louvretec Retracts are factory assembled, tested and calibrated as part of the manufacturing process. They come to site pre-wired ready for the electrician to connect through a standard junction box.

#### RETRACT ROOFS SPECIFICATIONS



#### **BLADE SPECIFICATIONS** 220/35 SLIMLINE RETRACT ROOF



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.

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 Retract Roof <b>3m Height</b>	4300	4300	4300	4200	4000	3500
220/35 Slimline Retract Roof <b>6m Height</b>		4300	4300	4050	3500	3150

#### **TYPICAL CROSS SECTIONS**



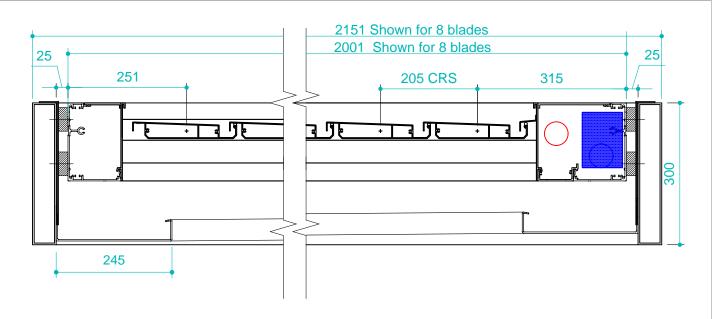


\*RETRACTED AREA APPROX. 25% OF OPENING

## TO CALCULATE EXACT OPENING SIZES FOR RETRACT SYSTEM

REFER TO PAGES 3.24 - 3.35 (DEPENDING ON FRAME CHOICE) IN THIS SECTION

#### **TYPICAL DETAIL: 220/35 SLIMLINE RETRACT ROOF**

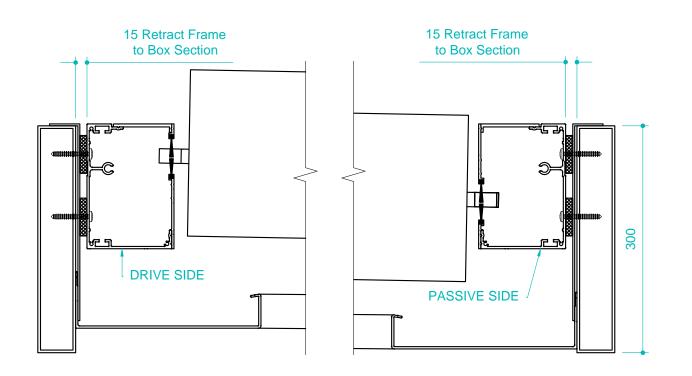


#### **CROSS SECTION THROUGH BLADES**

THIS DIMENSION IS CRITICAL AND IS DETERMINED BY THE NUMBER OF BLADES USED AND THE CONFIGURATION OF THE RETRACT ROOF

#### FOR RETRACT BLADE CALCULATION SHEETS

REFER TO PAGES 3.24 - 3.35 (DEPENDING ON FRAME CHOICE) IN THIS SECTION



#### CROSS SECTION RUNNING WITH BLADES

THIS DIMENSION IS FLEXIBLE AND LIMITED ONLY BY SPANNING CAPABILITY OF RETRACT BLADE

#### FOR RETRACT BLADE SPAN CHART

REFER TO PAGES 3.12 IN THIS RETRACT ROOF SECTION

CALE: DATE MODIFIED: 01/10/2024 FILE:RETRACT 3.13

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#### 220/45 ALPINE RETRACT ROOF

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

#### For Larger Spans & Alpine Locations

This Roof is a larger spanning version of the 220/35 Slimline. The 220/45 Alpine Retract Roof leads the way with outstanding spanning capabilities - Ideal for high wind zones 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
- · "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

WAIPU COVE, NORTHLAND NZ



220/45 ALPINE RETRACT ROOF BLADE

#### Market Leading Design

Motorised by powerful twin Somfy Tubular motors, a multi-purpose Louvretec controller comes as standard. The system can also be configured for home automation technology.

All the operating mechanism. Electronics and motors are incorporated within the side frame extrusions, completely hidden from sight and protected from the weather.

Louvretec Retracts are factory assembled, tested and calibrated as part of the manufacturing process. They come to site pre-wired ready for the electrician to connect through a standard junction box.

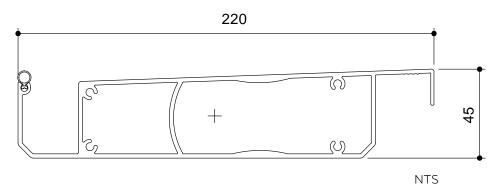


LOUVRETEC MULTI-CHANNEL CONTROLLER Custom programmed.





#### BLADE SPECIFICATIONS 220/45 ALPINE RETRACT ROOF



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		

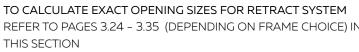
#### SPANS AT A GLANCE: Refer Engineering Section.

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 Retract Roof <b>3m Height</b>	5000	5000	5000	5000	5000	5000
220/45 Alpine Retract Roof <b>6m Height</b>		5000	5000	5000	5000	4700

#### **TYPICAL CROSS SECTIONS**



REFER TO PAGES 3.24 - 3.35 (DEPENDING ON FRAME CHOICE) IN



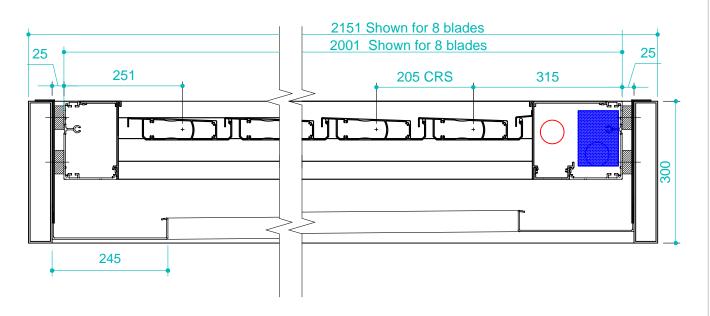
#### SNOW LOADINGS

REFER ENGINEERING SECTION, PAGES 13.31 & 13.32



\*RETRACTED AREA APPROX. 25% OF OPENING

## TYPICAL DETAIL: CROSS SECTIONS 220/45 ALPINE RETRACT ROOF WITHIN 300x50 ALUMINIUM STRUCTURAL FRAME

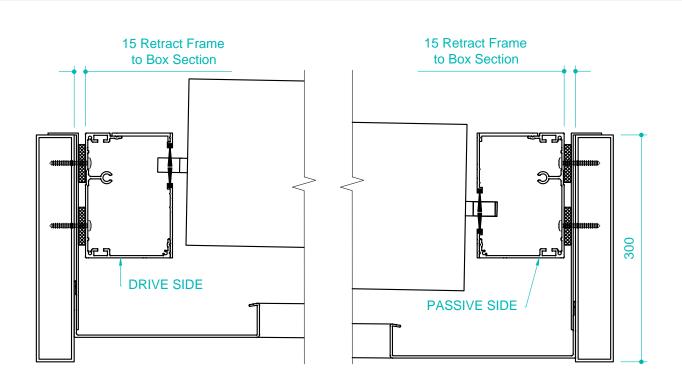


#### **CROSS SECTION THROUGH BLADES**

THIS DIMENSION IS CRITICAL AND IS DETERMINED BY THE NUMBER OF BLADES USED AND THE CONFIGURATION OF THE RETRACT ROOF.

#### FOR RETRACT BLADE CALCULATION SHEETS

REFER TO PAGES 3.24 - 3.35 (DEPENDING ON FRAME CHOICE) IN THIS SECTION



#### CROSS SECTION RUNNING WITH BLADES

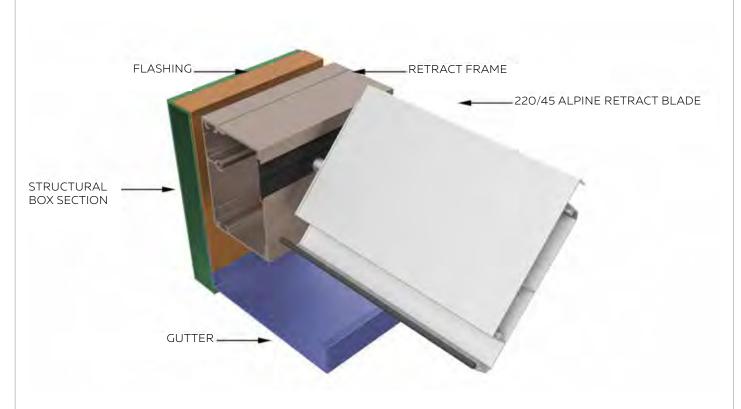
THIS DIMENSION IS FLEXIBLE AND LIMITED ONLY BY SPANNING CAPABILITY OF RETRACT BLADE.

#### FOR RETRACT BLADE SPAN CHART

REFER TO PAGE 3.15 IN THIS RETRACT ROOF SECTION

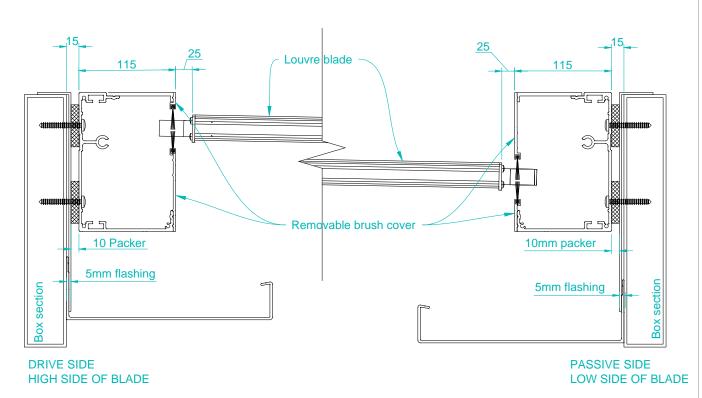


## TYPICAL DETAIL: 220/45 ALPINE RETRACT ROOF WITHIN LOUVRETEC STRUCTURAL FRAME



CROSS SECTION SHOWING DRIVE FRAME, BLADE, GUTTER & FLASHING WITHIN 300X50 BOX SECTION FRAME

#### **TYPICAL DETAIL: FALL & CLEARANCES ON RETRACT BLADES**



#### RETRACT ROOFS ARE TYPICALLY INSTALLED LEVEL

FALL ACROSS THE BLADES IS ACHIEVED WITH THE BLADES SET HIGHER ON THE DRIVE SIDE, FALLING 60mm TO THE PASSIVE SIDE.

60mm FALL IS COMMON ON ALL RETRACTS IRRESPECTIVE OF BLADE LENGTH.

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#### RETRACT ROOFS PITCHED RETRACT ROOFS



### PITCHED RETRACT ROOFS

#### A Pitched Retract Roof is now available

- Retract Roofs can now be installed on a pitch of up to 15 degrees slope
- · Blades must run in the same direction as the roof pitch
- $\cdot\;$  Blades can be stacked evenly to both ends or all LH end/all RH end
- Refer technical cross-section details on page 3.19 showing typical Pitched Roof Flashing details.

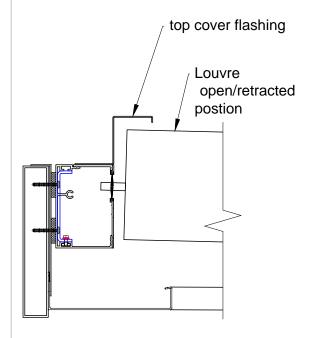


LETS GET PITCHED



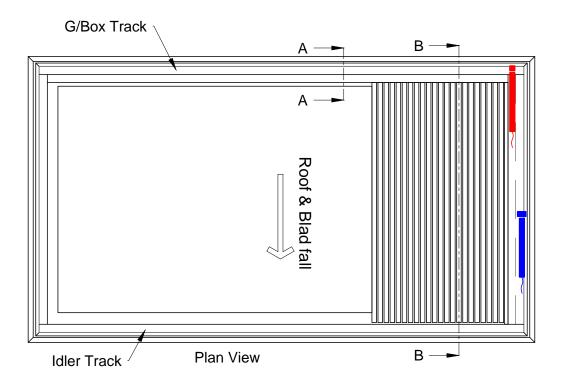
### **TECHNICAL DETAIL: PITCHED RETRACT ROOF MOTORS**

### TECHNICAL DETAILS: PLAN VIEW



Maximum pitch up to °15
Section B-B

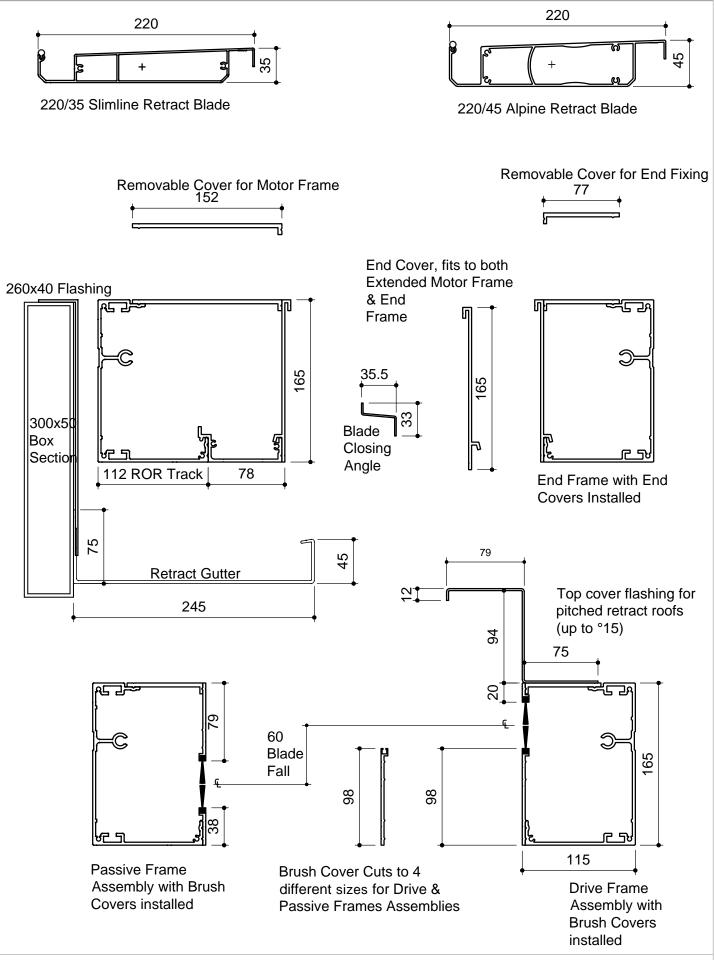
Section A-A



SCALE: DATE MODIFIED: 01/10/2024 FILE: RETRACT 3.19

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### **TYPICAL DETAIL: RETRACT ROOF EXTRUSIONS**



### OVERVIEW RETRACT ROOFS MOTOR CONFIGURATIONS



### RETRACT ROOFS CONFIGURATION



ROTATE MOTOR & RETRACT DRIVE SHAFT

### TWO MOTORS FOR TWO FUNCTIONS

Louvretec's Retract Roofs have two operating functions, each controlled by separate Somfy 25Nm motors

### Motor 1 - Retract Motor

This Motor Retracts | Extends the Louvre Blades

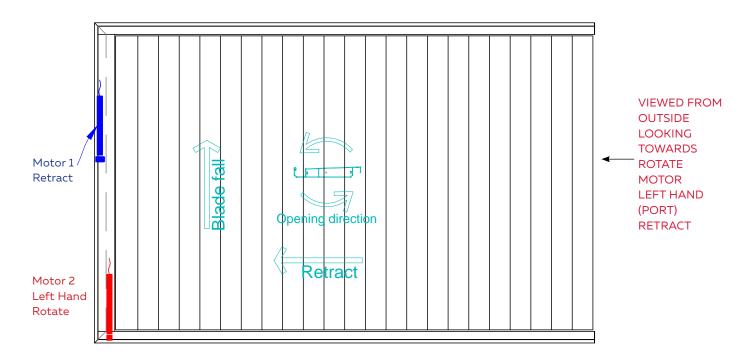
### Motor 2 - Rotate motor

This Motor functions like a standard Opening Roof - rotating the Louvre Blades between 0 to 135°

### Fall on blades

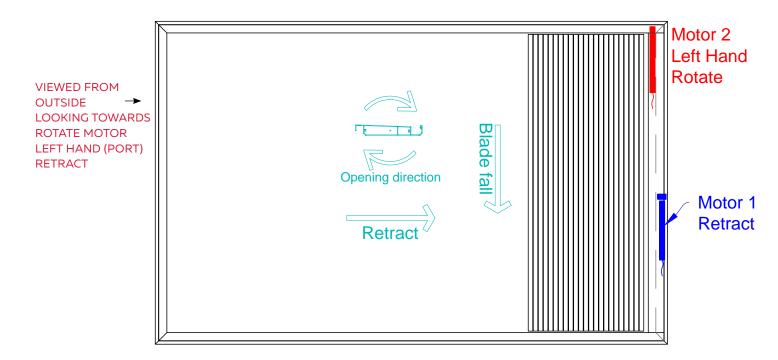
This is determined by the location of the Rotate Motor which is always located on the high side of the Blade. Fall on Blades is always 60mm from Drive Side down to Passive Side.

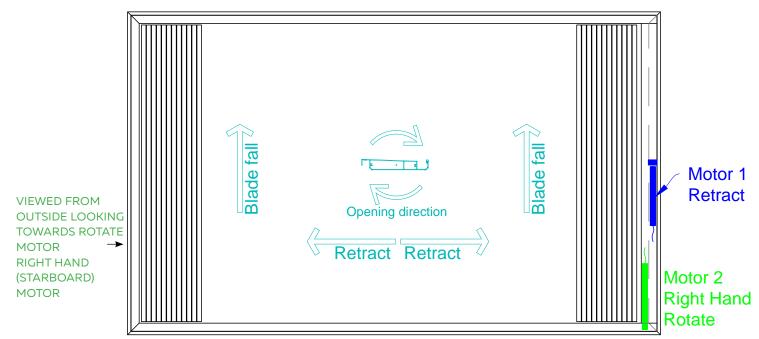
### TECHNICAL DETAILS RETRACT & ROTATE TWIN MOTORS - 3 SIDED FRAME



### TECHNICAL DETAILS RETRACT & ROTATE TWIN MOTORS - 4 SIDED FRAME

### 4 SIDED FRAME





### Fall on blades

This is determined by the location of the Rotate Motor which is always located on the high side of the blade. REFER TO ILLUSTRATIONS ON THIS PAGE

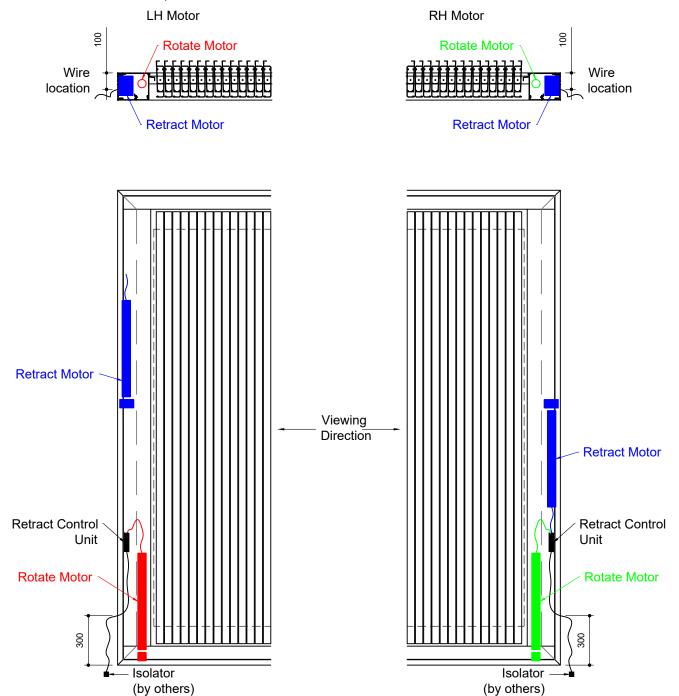
(LEFT HAND - PORT) or

(RIGHT HAND - STARBOARD)

as viewed from outside looking towards the motor.

### TECHNICAL DETAILS WIRE POSITIONS FOR RUNNING POWER TO CONTROLLER

- · When preparing to run power to the Retract, plan to enter the frame approximately 300mm away from the motor corner (the controller side) and 100mm down from the top.
- · Leave enough excess cable to reach the middle of the frame.
- · Protect the wire from sharp metal edges by using flex conduit or other suitable sheathing.
- · A local isolation switch is required.

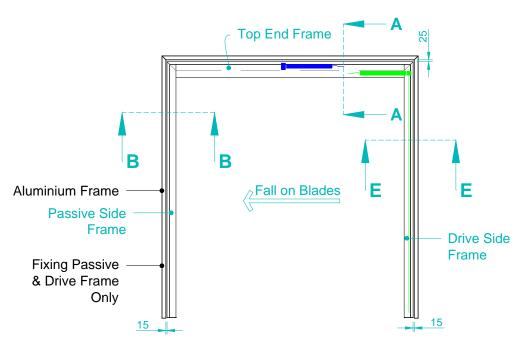


### CONFIGURATIONS OPTION 1: 3 SIDED FRAME

### CALCULATING RETRACT FRAME SIZES

The overall length of a Louvretec Retract Roof is a module size pre-determined by the frame configuration, ie: 3 sided frame or 4 sided frame plus the number of blades.

### **OPTION 1: THREE SIDED FRAME**



# FOR RETRACT THREE SIDED BLADE CALCULATIONS SHEETS REFER TO PAGES 3.23 - 3.24 IN THIS SECTION

These sizes cannot be varied or altered. Take great care when site measuring and calculating frame length.

On a 4 sided frame additional room is required to site assemble the mitred corners, therefore 15mm spacing is allowed for sides with 25mm spacing allowed on the top and bottom frames.

Due to the additional depth required with a Retract Roof a 300x50 aluminium box section is the standard structural outer frame.

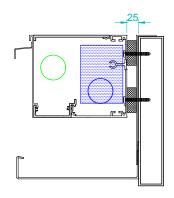
### 15mm SPACING

= 10mm PACKER = 5mm FLASHING

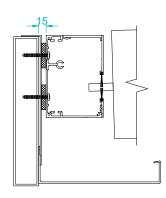
### 25mm SPACING

= 20mm PACKER + 5mm FLASHING

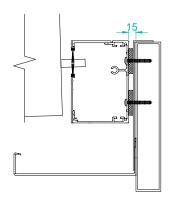
### TYPICAL ALLOWANCE FOR PACKERS ON A 3 SIDED FRAME



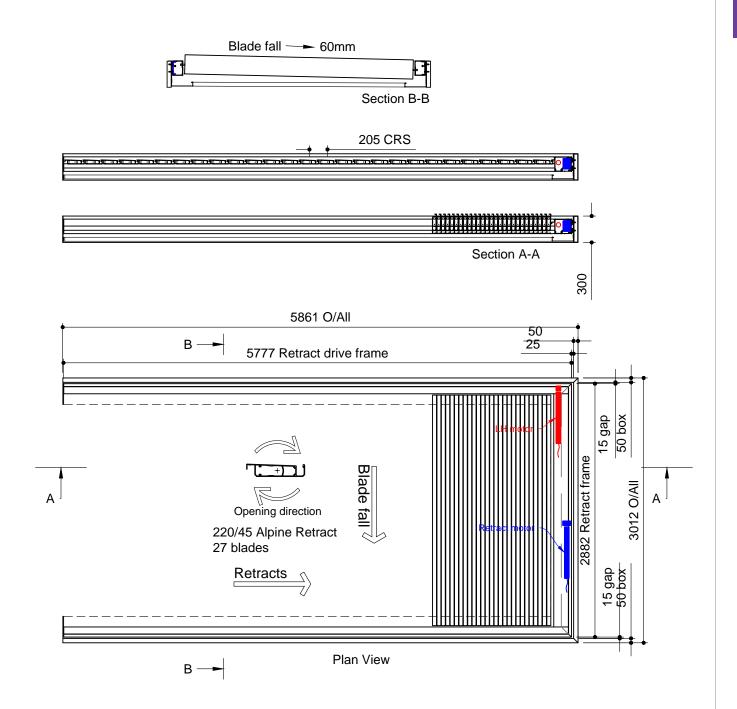
Section A-A
Top End Frame



Section B-B Passive Side Frame



Section E-E
Drive Side Frame



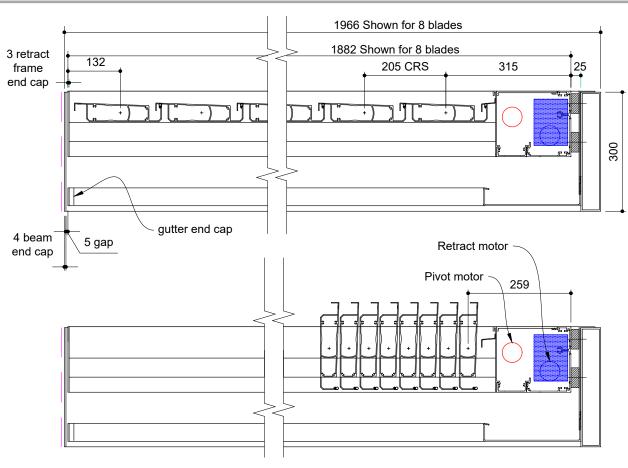
**EXAMPLE**: 27 BLADES, 3 SIDED RETRACT ROOF SITTING WITHIN 300X50 ALUMINIUM BOX SECTION FRAME. BLADES STACK TO ONE END.

FOR RETRACT BLADE CALCULATION SHEET

REFER TO PAGE 3.26 IN THIS RETRACT ROOF SECTION



# TYPICAL DETAIL: 3 SIDED RETRACT ROOF WITH AND WITHOUT STRUCTURAL BOX FRAME



Retract Frame 3 sides					
		Fitting into frame by others	Including our 300x50 Frame		
No of Blades	Retract Drive & Passive Frames	Clearance +25	Box Frame +50 Box End Cap +9		
8	1882	1907	1966		
9	2087	2112	2171		
10	2292	2317	2376		
11	2497	2522	2581		
12	2702	2727	2786		
13	2907	2932	2991		
14	3112	3137	3196		
15	3317	3342	3401		
16	3522	3547	3606		
17	3727	3752	3811		
18	3932	3957	4016		
19	4137	4162	4221		
20	4342	4367	4426		
21	4547	47 4572			
22	4752	4777	4836		
23	4957	4982	5041		
24	5162	5187	5246		
25	5367	5392	5451		
26	5572	5597	5656		
27	5777	5802	5861		
28	5982	982 6007			
29	6187	6212	6271		
30	6392	6417	6476		
31	6597	6622	6681		
32	6802	6827	6886		

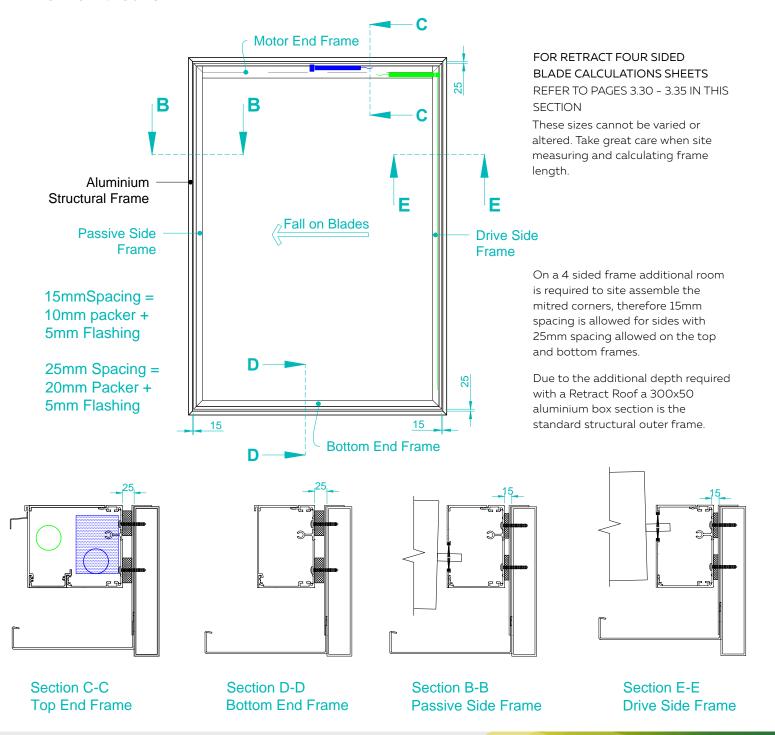


### CONFIGURATIONS OPTION 2: 4 SIDED FRAME

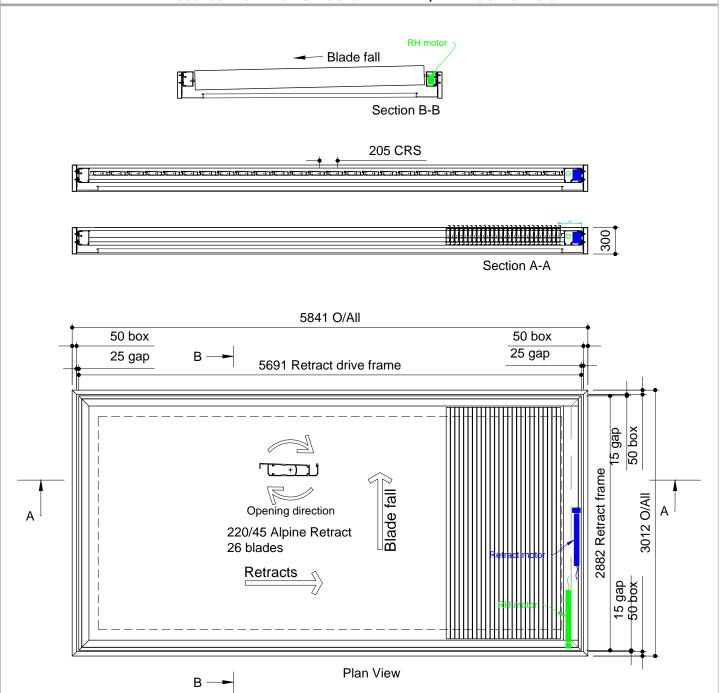
### CALCULATING RETRACT FRAME SIZES

The overall length of a Louvretec Retract Roof is a module size pre-determined by the frame configuration, ie: 3 sided frame or 4 sided frame plus the number of blades.

### **OPTION 2: FOUR SIDED FRAME**



# TYPICAL DETAIL : 4 SIDED RETRACT ROOF WITHIN 300X50 ALUMINIUM STRUCTURAL FRAME, BLADES STACK TO ONE END

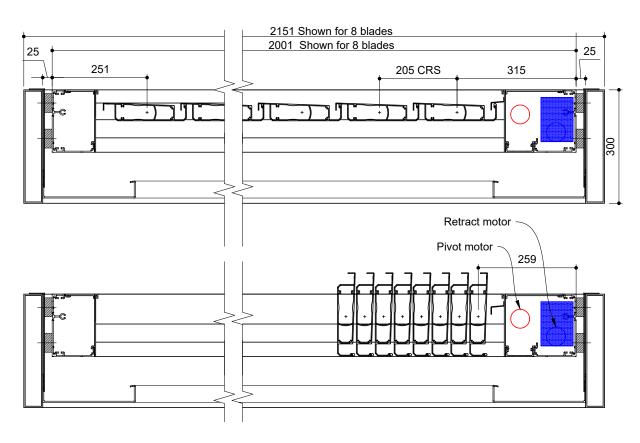


**EXAMPLE**: 26 BLADES, 4 SIDED RETRACT ROOF SITTING WITHIN 300X50 ALUMINIUM STRUCTURAL FRAME. BLADES STACK TO ONE END.

FOR RETRACT BLADE CALCULATION SHEET
REFER TO PAGE 3.29 IN THIS RETRACT ROOF SECTION



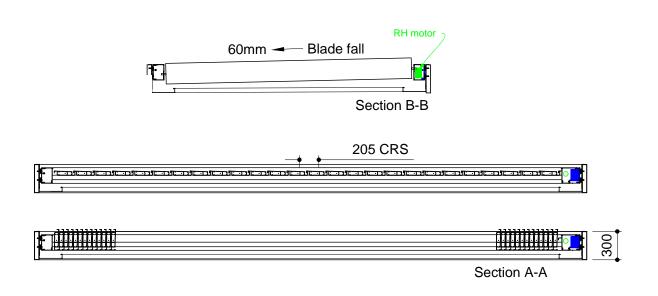
### **TYPICAL DETAIL: 4 SIDED RETRACT ROOF** WITH AND WITHOUT STRUCTURAL FRAME, BLADES STACK TO ONE END

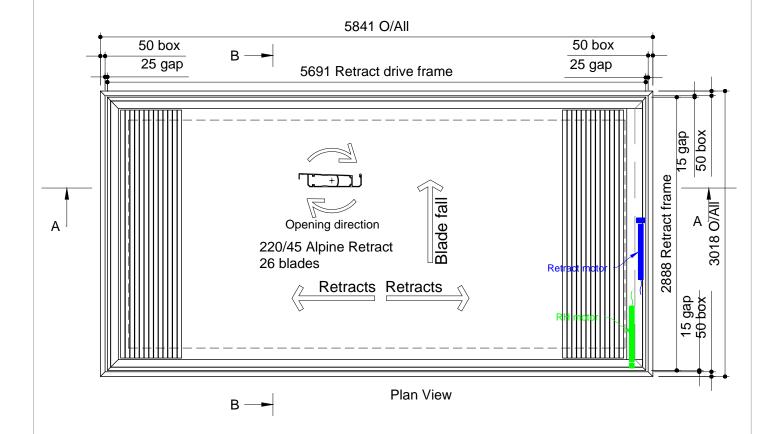


Retract Frame	4 sides, Blades ret	racting to one side	
, cube, riame	7 3 0 6 3 7 6 1	Fitting into frame by others	Including our 300x50 frame
No of Blades	Retract Drive & Passive Frames	Clearance +25+25	Box Frame +50+50
8	2001	2051	2151
9	2206	2256	2356
10	2411	2461	2561
11	2616	2666	2766
12	2821	2871	2971
13	3026	3076	3176
14	3231	3281	3381
15	3436	3486	3586
16	3641	3691	3791
17	3846	3896	3996
18	4051	4101	4201
19	4256	4306	4406
20	4461	4511	4611
21	4666	4715	4816
22	4871	4921	5021
23	5076	5126	5226
24	5281	5331	5431
25	5486	5536	5636
26	5691	5741	5841
27	5896	5946	6046
28	6101	6151	6251
29	6306	6356	6456
30	6511	6561	6661
31	6716	6766	6866
32	6921	6971	7071



# TYPICAL DETAIL: 4 SIDED RETRACT ROOF WITHIN 300X50 ALUMINIUM STRUCTURAL FRAME, BLADES STACK EVENLY TO EACH END



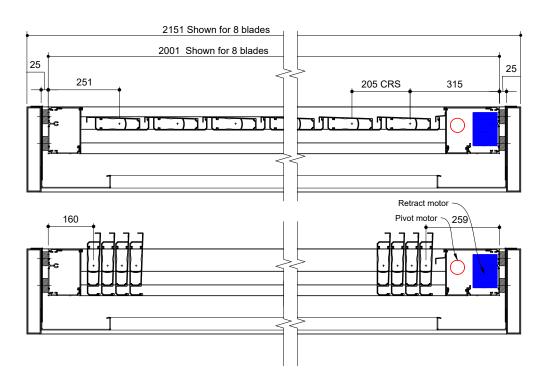


**EXAMPLE**: 26 BLADES, 4 SIDED RETRACT ROOF SITTING WITHIN 300X50 ALUMINIUM STRUCTURAL FRAME. BLADES STACK EVENLY TO EACH END.

FOR RETRACT BLADE CALCULATION SHEET REFER TO PAGE 3.31 IN THIS SECTION



# TYPICAL DETAIL: 4 SIDED RETRACT ROOF WITH AND WITHOUT FRAMES. BLADES STACK EVENLY TO EACH END. CALCULATING RETRACT FRAME SIZES CHART



Retract module	e sizes with 5om	y Motors:		
Retract Frame 4s	ides, Blades retracti	ng to both sides, Eve	n number	
		Fitting into frame by others	Including our 300x50 frame	
No of Blades	Retract Drive & Passive Frames	Clearance +25 +25	Box Frame +50 +50	
8	2001	2051	2151	
10	2411	2461	2561	
12	2821	2871	2971	
14	3231	3281	3381	
16	3641	3691	3791	
18	4051	4101	4201	
20	4461	4511	4611	
22	4871	4921	5021	
24	5281	5331	5431	
26	5691	5741	5841	
28	6101	6151	6251	
30	6511	6561	6661	
32	6921	6971	7071	

# TYPICAL DETAIL: 4 SIDED DOUBLE RETRACT WITH MID BEAM WITHIN 300X50 ALUMINIUM STRUCTURAL FRAME BLADES STACK EVENLY OR UNEVENLY TO EACH END

# DOUBLE RETRACT ROOF SHOWN WITH MID BEAM

FOR MID BEAM DETAIL REFER TO PAGE 3.32-35 IN THIS RETRACT ROOF SECTION

Blades close onto flashings, no mid gutter required.

Example shows 300x50 aluminium frame – discuss job-specific frame details with Louvretec. Weather induced frame contraction and expansion can occur over large spanning measurements.

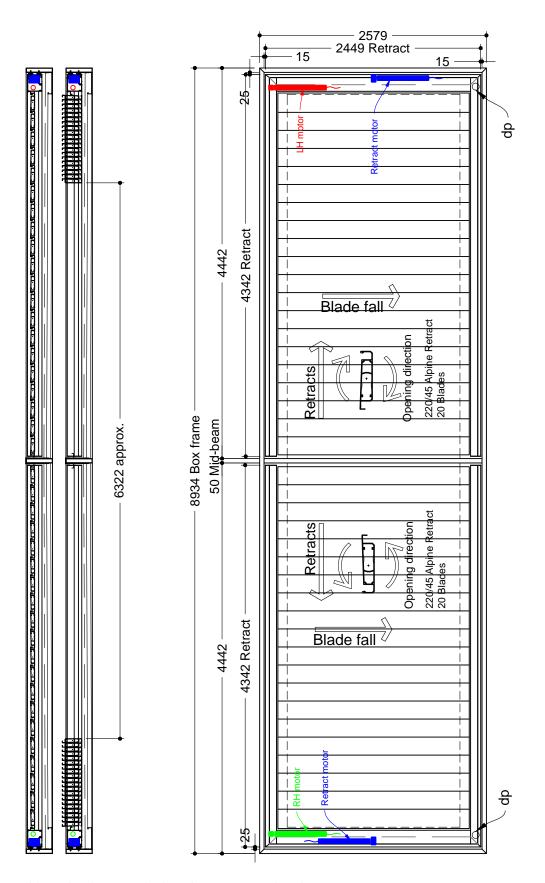
Max length: 64 blades, 13734mm

BLADES ARE END STACKED AND CAN BE EITHER EVEN OR UNEVEN NUMBER IN EITHER ROOF.

EXAMPLE:
40 BLADE, 4 SIDED
DOUBLE RETRACT
WITH MID BEAM,
SITTING WITHIN
300X50ALUMINIUM
BOX SECTION FRAME.

FOR RETRACT BLADE CALCULATIONS SHEETS

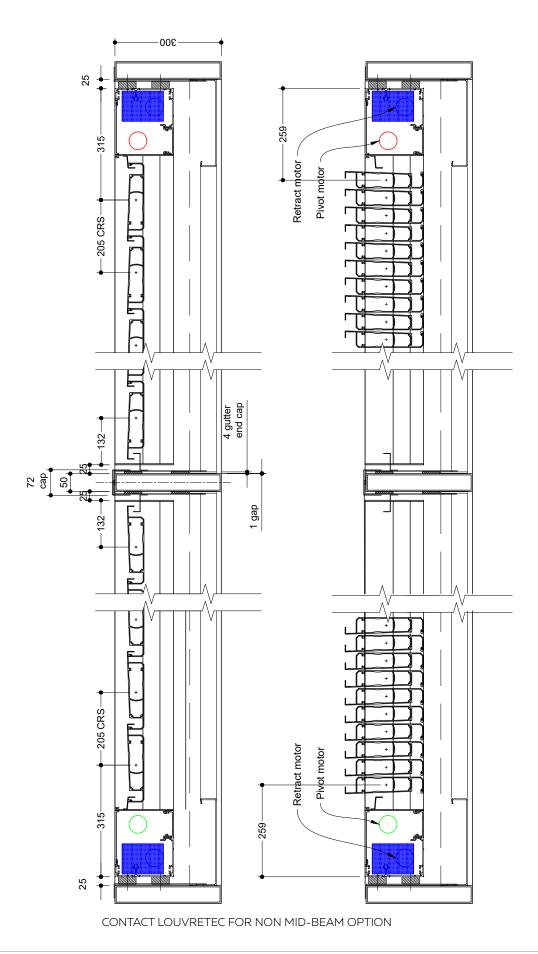
REFER TO PAGE 3.35 IN THIS RETRACT ROOF SECTION







# TYPICAL DETAIL: 4 SIDED DOUBLE RETRACT ROOF SHOWING MID BEAM DETAIL



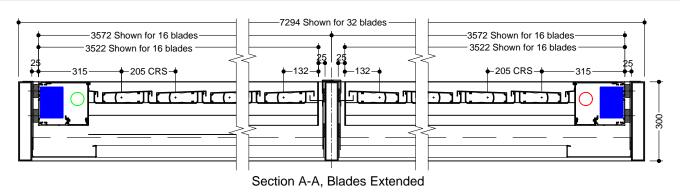
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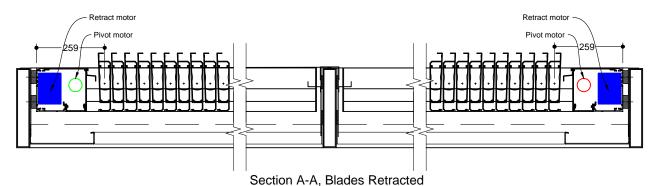
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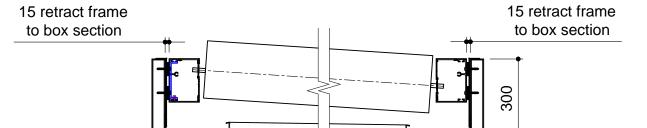
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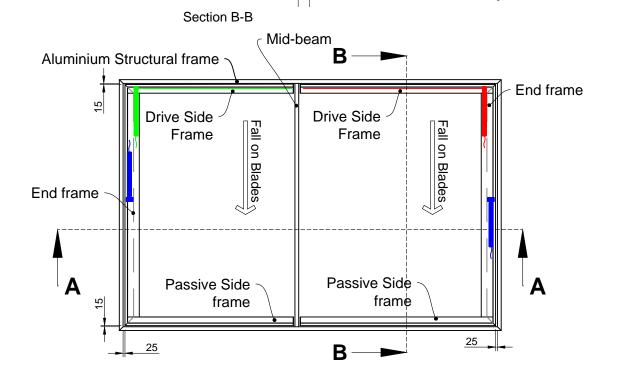


# BLADE AND FRAME CLEARANCES: 4 SIDED DOUBLE RETRACT ROOF WITH MID BEAM AND 300X50 ALUMINIUM STRUCTURAL FRAME





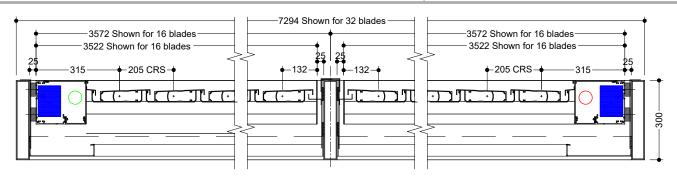




CONTACT LOUVRETEC FOR NON MID-BEAM OPTION



# BLADE CALCULATIONS: 4 SIDED DOUBLE RETRACT ROOF WITH MID BEAM, WITH AND WITHOUT STRUCTURAL FRAME



Part A			Part B			Total		
No of Blades	Retract Drive & Passive Frames	distance to centre line of internal beam	No of Blades	Retract Drive & Passive Frames	distance to centre line of internal beam	total number of blades	Clearance (+25+25) frame by others	Box frame +50+50 Including ou 300x50 frame
16	3522	3572	16	3522	3572	32	7194	7294
17	3727	3777	16	3522	3572	33	7399	7499
17	3727	3777	17	3727	3777	34	7604	7704
18	3932	3982	17	3727	3777	35	7809	7909
18	3932	3982	18	3932	3982	36	8014	8114
19	4137	4187	18	3932	3982	37	8219	8319
19	4137	4187	19	4137	4187	38	8424	8524
20	4342	4392	19	4137	4187	39	8629	8729
20	4342	4392	20	4342	4392	40	8834	8934
21	4547	4597	20	4342	4392	41	9039	9139
21	4547	4597	21	4547	4597	42	9244	9344
22	4752	4802	21	4547	4597	43	9449	9549
22	4752	4802	22	4752	4802	44	9654	9754
23	4957	5007	22	4752	4802	45	9859	9959
23	4957	5007	23	4957	5007	46	10064	10164
24	5162	5212	23	4957	5007	47	10269	10369
24	5162	5212	24	5162	5212	48	10474	10574
25	5367	5417	24	5162	5212	49	10679	10779
25	5367	5417	25	5367	5417	50	10884	10984
26	5572	5622	25	5367	5417	51	11089	11189
26	5572	5622	26	5572	5622	52	11294	11394
27	5777	5827	26	5572	5622	53	11499	11599
27	5777	5827	27	5777	5827	54	11704	11804
28	5982	6032	27	5777	5827	55	11909	12009
28	5982	6032	28	5982	6032	56	12114	12214
29	6187	6237	28	5982	6032	57	12319	12419
29	6187	6237	29	6187	6237	58	12524	12624
30	6392	6442	29	6187	6237	59	12729	12829
30	6392	6442	30	6392	6442	60	12934	13034
31	6597	6647	30	6392	6442	61	13139	13239
31	6597	6647	31	6597	6647	62	13344	13444
32	6802	6852	31	6597	6647	63	13549	13649
32	6802	6852	32	6802	6852	64	13754	13854

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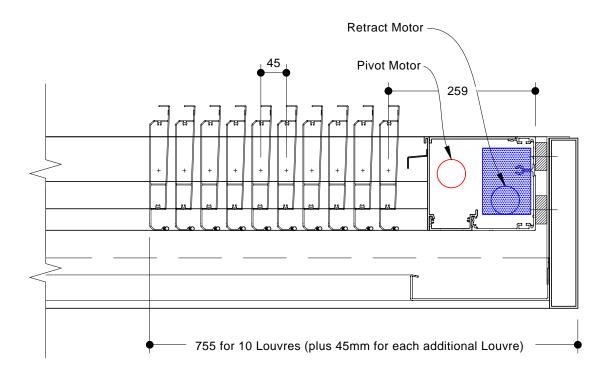
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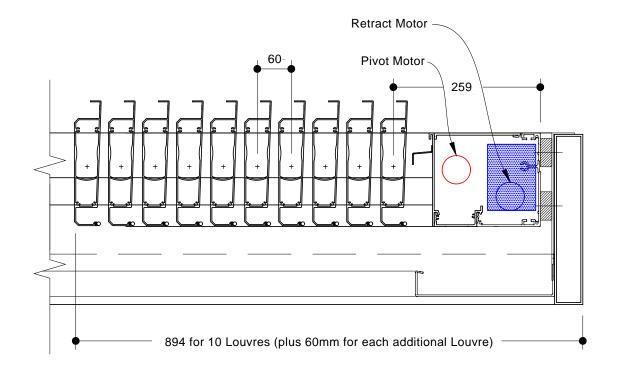


### TYPICAL DETAIL: STACK DIMENSIONS WHEN RETRACT ROOF IS FULLY RETRACTED

### 220/35 SLIMLINE RETRACT ROOF - STACK DIMENSIONS WHEN BLADES FULLY RETRACTED



### 220/45 ALPINE RETRACT ROOF - STACK DIMENSIONS WHEN BLADES FULLY RETRACTED







NOON DUO CONTROLLER BY TELECO/SOMFY -A CUSTOM PROGRAMMED RETRACT ROOF CONTROLLER.



REFER TO SECTION 14: ELECTRICAL WIRING DIAGRAMS

# REMOTE CONTROLLER

### Custom programmed

The Louvretec customised Noon Duo Retract Remote Controller has 11 channels which enables 11 different Louvretec products to be programmed on to the remote control.

This one remote is a sophisticated solution for installations that feature both Teleco and Somfy receivers, such as Retractable Roof & Motorised Blinds.

A demonstration of the remote control is given to each customer along with an easy to follow customised remote control instruction card.

Retractable Roofs can be operated from a Smartphone - please ask your Louvretec Dealer for the latest options.

## **ELECTRICAL DETAILS**

### Electrical information

Refer Electrical Wiring Details Section 14 to view Electrical Wiring Diagrams

# RETRACT AFTER SALES CARE & WARRANTY

### Operating instructions, Warranty and care

On completion of a Louvretec Retract Roof the owner is provided with a Retract Warranty that also contains information such as operating instructions & care and cleaning advice.

A Retract Roof is a high value item that benefit's from regular servicing. Louvretec Retracts are designed to an exacting standard, incorporating the very latest in Retract technology. Retracting Louvre systems means more moving parts - these will require regular cleaning, servicing and protective maintenance to keep your Retract system in good working order.

### Regular servicing every 12 months

We recommend a regular maintenance service on a twelve month basis.

Some Louvretec Dealerships also offer a full valet cleaning service. Check with your local Dealer to see if this service is available. Please refer to the Retract Warranty regarding general care, cleaning, key points regarding safe operation of the Retract System, along with the full Product Warranty.









RETRACTED. AUCKLAND, NZ



RETRACT ROOF CLOSED. AUCKLAND, NZ

### SAFE OPERATION

Any object that obstructs the path of the louvres during the rotating and/or retract/extend operation can cause damage. Objects can include but not limited to branches, bottles, broom handles, balls, tools etc.

Ensure gutters and surrounding areas are free of any objects before operating.

### EASE OF OPERATION

IN HIGH WINDS IT IS RECOMMENDED NOT TO USE THE RETRACT MODE. THE FORCE OF THE WIND ON THE LOUVRE BLADE WHEN RETRACTING CAN AFFECT THE MOVEMENT OF THE LOUVRE BLADES.

IN HIGH WINDS WE RECOMMEND HAVING THE LOUVRES PARKED IN THE FULLY CLOSED POSITION. HIGH WINDS CAN CAUSE THE LOUVRE BLADES TO RATTLE AGAINST EACH OTHER WHEN RETRACTED BACK.

- The Retract Roof remote has preset keys to rotate/tilt the louvres to 45°, 90° & 135°. By pressing the key a second time will stop the louvres at any point in between the above tilt angles.
- When in retracting mode the roof the louvres will always go to 90° before retracting back.
- Once the louvres have moved from the fully retracted position, the louvres will automatically close. Simply rotate them open and close (just like a standard Opening Roof) for operable shelter when they are fully returned.
- A rain sensor option is available. The rain sensor is activated by detecting drops of water. When activated the remote unit will move the roof to the extended position and close the louvres.
- The remote unit executes no further commands until 20 seconds after the sensor no longer detects any drops.
- Lighting & heating options can also be operated on the Retract's remote control unit.

### **INSTALLATION NOTE:**

Take care, never install a flashing over the motor, end frame, drive and passive frame covers.

### LOUVRETEC PRODUCT WARRANTY

### **RETRACT ROOFS**

### 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 PRODUCT WARRANTY

### **RETRACT ROOFS**



warranty details	All Retract Roofs installed by Louvretec, or an Authorised Louvretec Installer, is from date of invoice, fully warranted for the first two years. This warranty covers worksmanship, louvres and all componentry, motors, switches and electronics with labour costs included From year two to end of year five, a warranty 'replacment of parts' only applies for all motors. Labour costs excluded (also excludes any wiring and electrcial connections by others).			
motorisation	Louvretec exclusively uses Somfy motors. Somfy offers a 5 year warranty on all motors and electronics. Please contact your Louvretec Dealer 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 provides excellent resistance to weather and salt spray. This carries warranties of a maintainable service life of 25 years, film integrity of 10 years and colour integrity of 7 years.			
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 anosided 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	<ol> <li>Periodic cleaning is essential to remove dirt, grime and associated salt deposits from both powder coated and anodised surfaces.</li> <li>Carefully remove any loose deposits with a wet sponge.</li> </ol>			
Cleaning	Use a soft non-abrasive brush and a mild detergent or car cleaning solution to remove dust, salt and other deposits. Rinse well with clean water.			
	<ol><li>If your Retract roof downpipe connects to tank water supply be sure to dis-connect before cleaning.</li></ol>			
	5. Most importantly – USE REGULARLY! We recommend at least once every two weeks.			
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.			
RETEC NZ LTD	Head office: 23c Douglas Alexander Parade, Albany 0632, Auckland New Z			

E info@louvretec.co.nz

T +64 9 415 4949

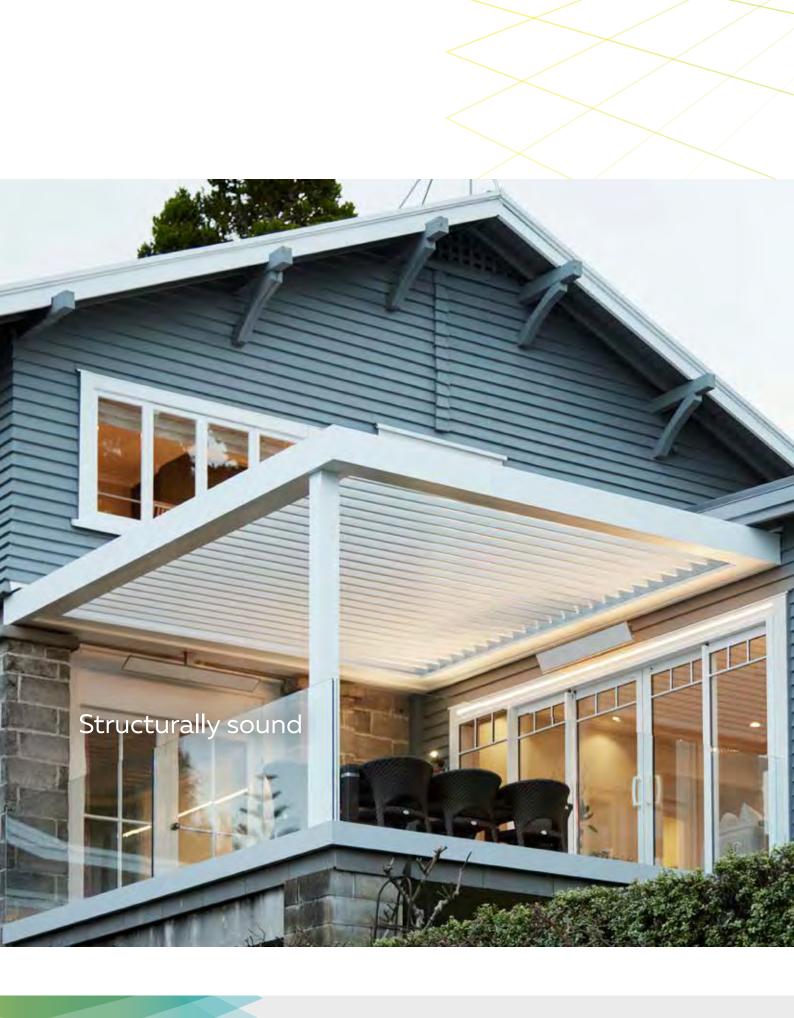
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Gallery & Overview 4.02 - 4.05
Structural Frames & Connection Options 4.06 - 4.08
Post Fixing Details 4.09 - 4.10
Gutter Outlets 4.11 - 4.13
Connecting to the Building 4.15 - 4.34



### GALLERY STRUCTURAL FRAMES | POSTS | CONNECTIONS









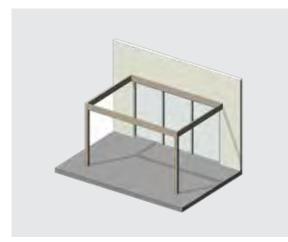
1 - 4: LOUVRETEC OPENING ROOFS IN LOUVRETEC STRUCTURAL FRAMES



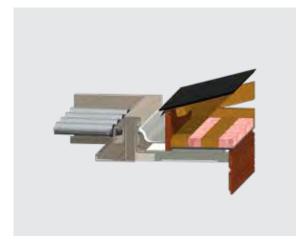




CHRISTCHURCH, NZ



SIMPLY SUPPORTED



CONNECTION OPTIONS TO BUILDING

# LOUVRETEC STRUCTURAL FRAMES | POSTS | CONNECTIONS

No substitution is permitted REFER TO RELEVANT DESIGN INFORMATION Engineering Section 13; ENGINEERING REPORTS

The following structural drawings and fixing details are for use with Louvretec Aluminium Louvre Systems and supporting structures.

No substitution is permitted – please read in conjunction with relevant design tables as applicable in Engineering Reports Section 13.

### The Louvretec Structural Frame

- As part of the Louvretec Opening Roof / Retract Roof package Louvretec offers a fully engineered structural aluminium frame system.
- This frame system has been designed to meet the structural requirements for a Louvretec Outdoor Room.
- Beams & 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.
- They are also designed to include wall infills such as outdoor blinds,
   Slidetec Frameless Glass Sliders, Louvre panels sliding or fixed.

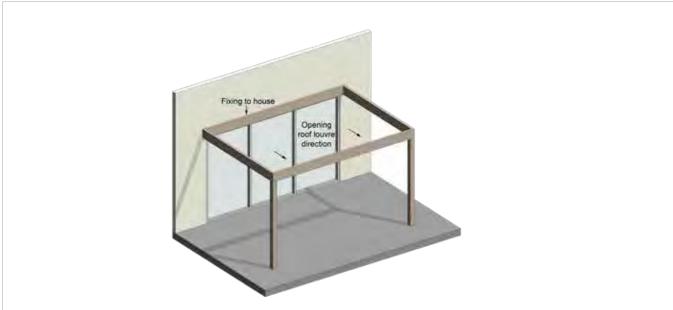
### Connections to building

- This section also covers a comprehensive range of options for fixing structural beams to existing buildings.
- Options also include braced free-standing posts where fixing to house is not possible.



### TYPICAL DETAIL FRAME OPTIONS

### TYPICAL DETAIL SIMPLY SUPPORTED STRUCTURAL FRAME



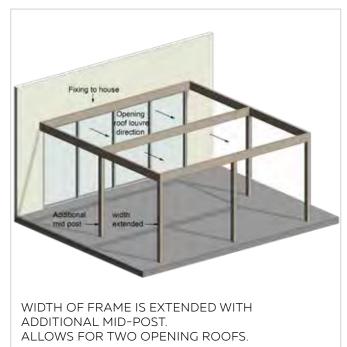
ALUMINIUM BOX SECTION BEAMS AND POSTS. BEAM AND POST SIZES DETERMINED BY SPANS & WIND ZONES.

# TYPICAL DETAIL CONTINUOUS SPAN - LENGTH EXTENDED



LENGTH OF FRAME IS EXTENDED WITH ADDITIONAL MID-POST.
ALLOWS FOR A LONGER OPENING ROOF.

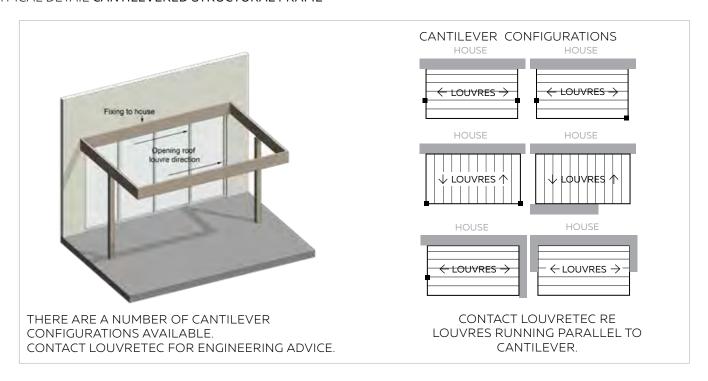
# TYPICAL DETAIL CONTINUOUS SPAN - WIDTH EXTENDED



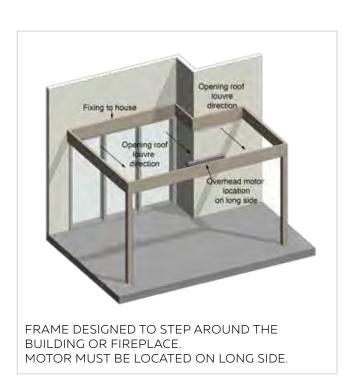
### STRUCTURAL FRAMES POSTS | CONNECTIONS TECHNICAL DETAILS

### TYPICAL DETAIL FRAME OPTIONS

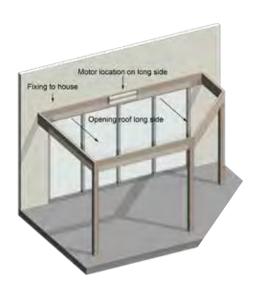
### TYPICAL DETAIL CANTILEVERED STRUCTURAL FRAME



### TYPICAL DETAIL STEPPED FRAME



### TYPICAL DETAIL RAKING FRAME



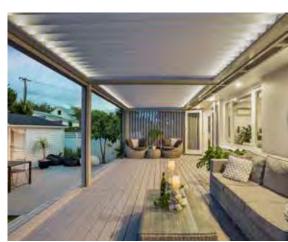
FRAME CAN FOLLOW THE SHAPE OF THE DECK. MOTOR MUST BE LOCATED ON LONG SIDE.

# THE LOUVRETEC STRUCTURAL FRAME

Post and Beam sizes determined by wind and loading

REFER TO RELEVANT DESIGN INFORMATION Engineering Section 13/ENGINEERING REPORTS

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





SINGLE BEAM



TWO SINGLE BEAMS, MITRED CORNER



DOUBLE BEAM



DOUBLE BEAM WITH SINGLE BEAM



TWO DOUBLE BEAMS, MITRED CORNER



POST WITH BASE PLATE











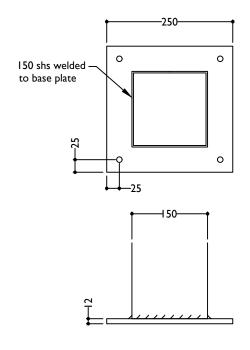


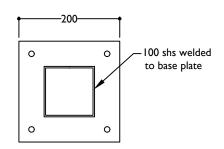


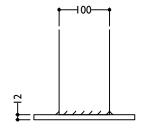


150X50X3 2/150X50X3 200X50X3 2/200X50X3 225X50X3 2/225X50X3 250X50X3 2/250X50X3

# TYPICAL DETAIL: OPENING ROOFS STRUCTURAL FRAME POST FIXING DETAILS

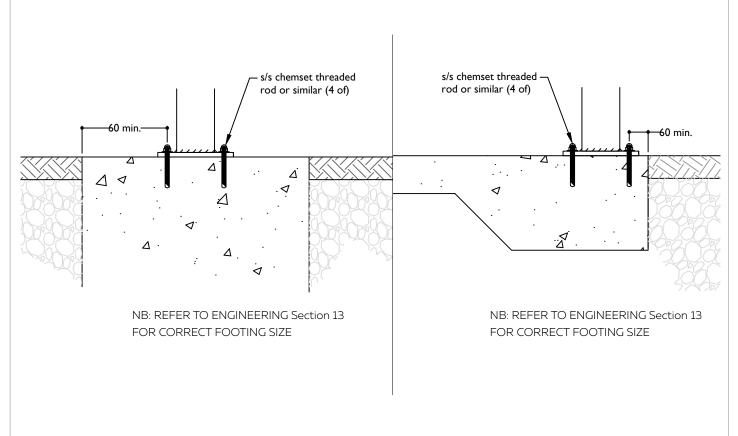






ALUMINIUM POST BASE PLATE - DIMENSIONS

NB: REFER TO ENGINEERING Section 13 FOR CORRECT POST SIZE



SECTION POST TO CONCRETE FOOTING

SECTION POST TO CONCRETE PAD

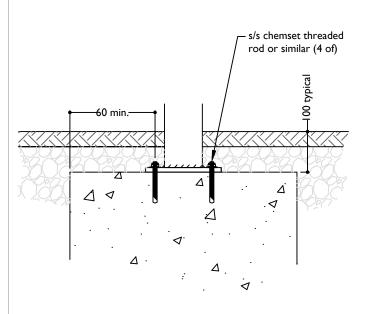
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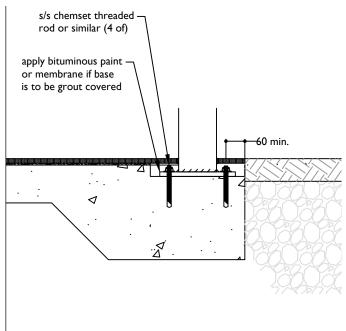
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# TYPICAL DETAIL : OPENING ROOFS STRUCTURAL FRAME POST FIXING DETAILS





SECTION POST TO CONCRETE FOOTING - RECESSED

SECTION POST TO CONCRETE PAD - RECESSED

# s/s coach screw (4 of) deck and suitable fixing timber to building engineers design

s/s coach screw (4 of)

deck and suitable fixing timber to building engineers design

SCALE 1:10

SECTION POST TO TIMBER DECK

SECTION POST TO TIMBER DECK - RECESSED



SCALE 1:10

### STRUCTURAL FRAMES OPENING | RETRACT ROOF GUTTER OUTLETS TECHNICAL DETAILS

### TYPICAL DETAIL GUTTER OUTLETS

### TYPICAL DETAIL GUTTER OUTLETS

1. REAR OUTLET THROUGH ALUMINIUM BEAM

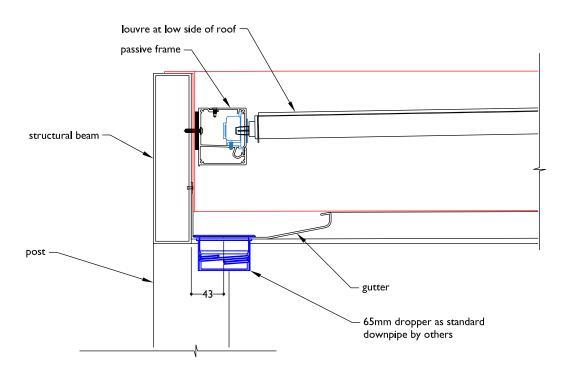
2. CONVENTIONAL OUTLET AND DOWNPIPE DROPPER



3. OUTLET USING POST AS DROPPER



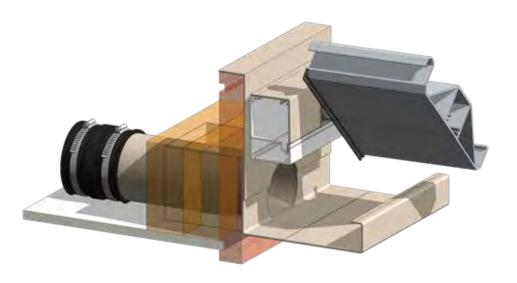
### SECTION STANDARD 65MM DROPPER IN GUTTER



# TYPICAL DETAIL: OPENING ROOFS STRUCTURAL FRAME CONNECTING TO THE BUILDING

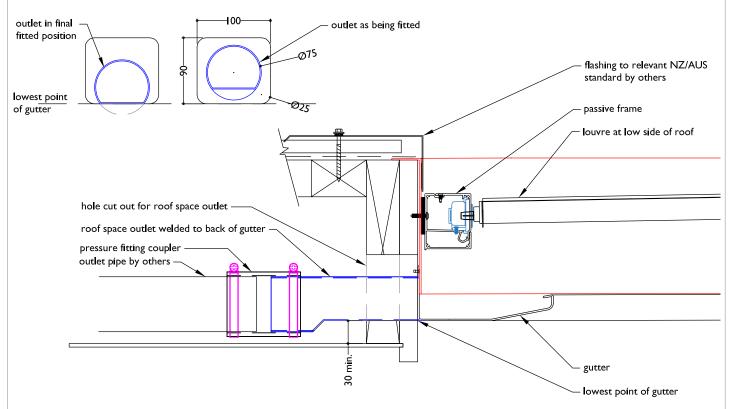
### **TYPICAL DETAIL: REAR OUTLET GUTTER IN SOFFIT**

OUTLET THROUGH FASCIA ROOF SPACE



### SECTION OUTLET THROUGH FASCIA ROOF SPACE

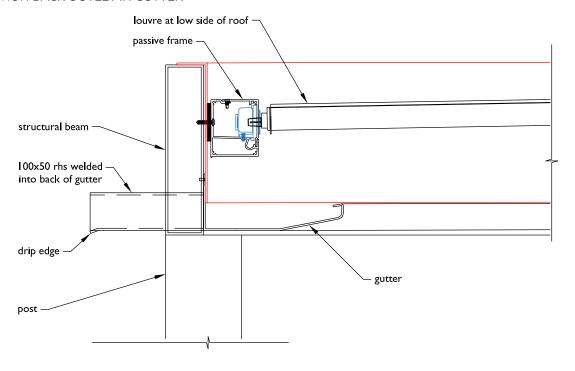
hole cut out for roof space outlet



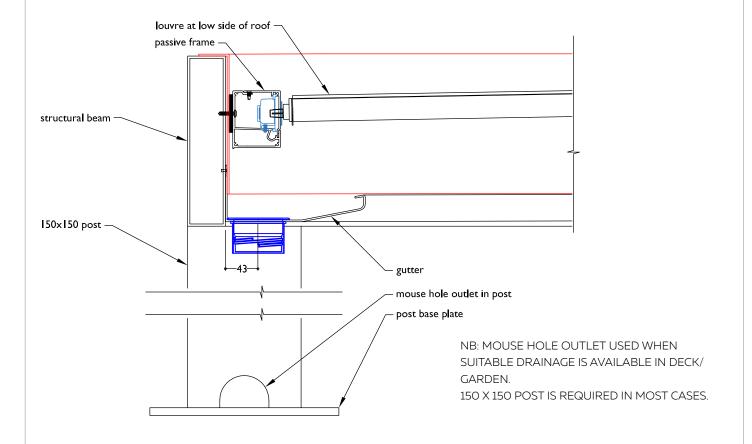


# TYPICAL DETAIL: OPENING | RETRACT ROOFS GUTTER OUTLETS

### SECTION BACK OUTLET IN GUTTER



### SECTION THROUGH LOUVRES



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LouvreTec®

### PRODUCT OVERVIEW CONNECTING TO THE BUILDING

### CONNECTING TO THE BUILDING

### Three typical fixing locations

In most instances, the aluminium structural frame connects either directly to or directly alongside the existing building.

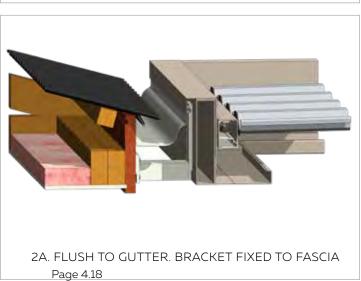
There are three typical fixing locations:

- 1. Fixing above the existing roof
- 2. Fixing flush with the existing gutter
- 3. Fixing directly to or free standing next to the building



MT EDEN, NZ









### OVERVIEW CONNECTING TO THE BUILDING



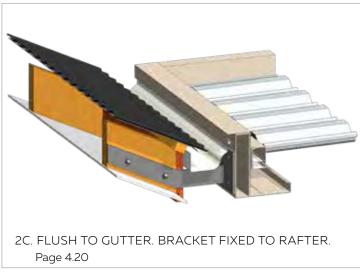
AUCKLAND, NZ

### CONNECTING TO THE BUILDING

### Fixing options

Location determines which suitable fixing options are available and are permissible.

Fixing options must take into consideration the structural integrity of the building – i.e, is there solid fixing available? Also ensuring the watertight integrity of the building is not compromised.







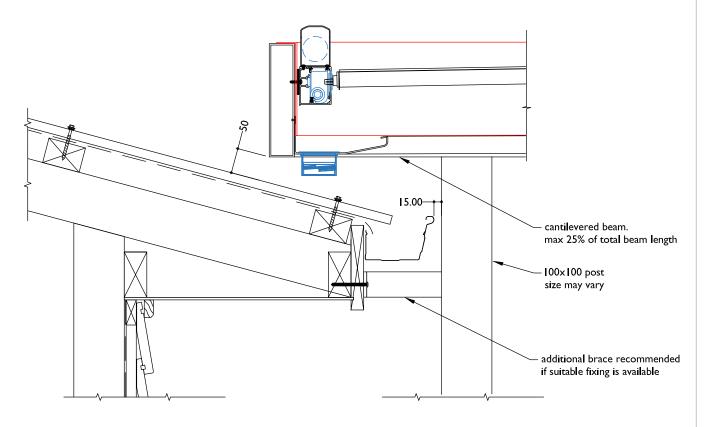


#### TYPICAL DETAIL: OPTION 1A. OPENING FRAME OVER EXISTING OPENING ROOF



BRACED OR FREE STANDING POST PROJECTS OPENING ROOF OVER HOUSE ROOF.
ALLOWS STORM-WATER DISPOSAL ONTO EXISTING ROOF. IT IS NOT FLASHED BETWEEN OPENING ROOF AND HOUSE ROOF.

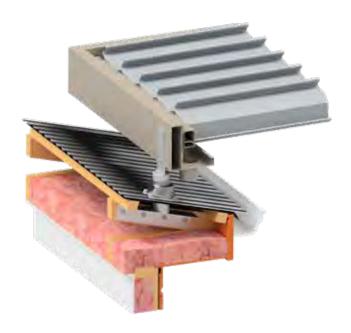
#### SECTION OPTION 1A - BRACED OR FREE STANDING POST - OPENING ROOF FRAME IS OVER ROOF.



REFER RENDER ABOVE

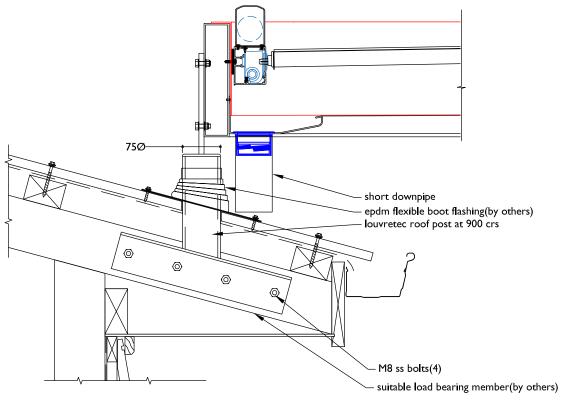


### TYPICAL DETAIL: OPTION 1B. OPENING ROOF FRAME OVER EXISTING ROOF



FIXING BRACKET CONNECTED TO RAFTERS AND FLASHED ACCORDINGLY. ROOF IRON OR TILES NEED TO BE LIFTED FOR BRACKET INSTALLATION.

#### SECTION OPTION 1B - ROOF BRACKET - OPENING ROOF FRAME FIXED OVER ROOF



REFER RENDER ABOVE

SCALE: DATE MODIFIED: 01/10/2024 FILE: STRUCTURAL 4.17

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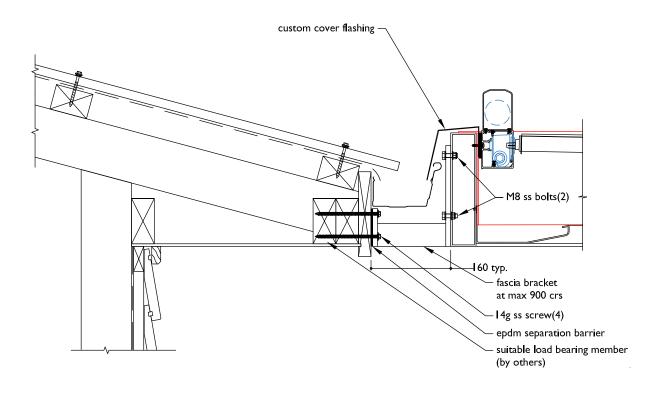


TYPICAL DETAIL: OPTION 2A. FLUSH TO GUTTER - FASCIA FIXED



BRACKET FIXED TO FASCIA. BOX SECTION SITS ABOVE GUTTER WITH CAP FLASHING INTO GUTTER.

#### SECTION OPTION 2A - FRAME TO FASCIA - FASCIA BRACKET



REFER RENDER ABOVE

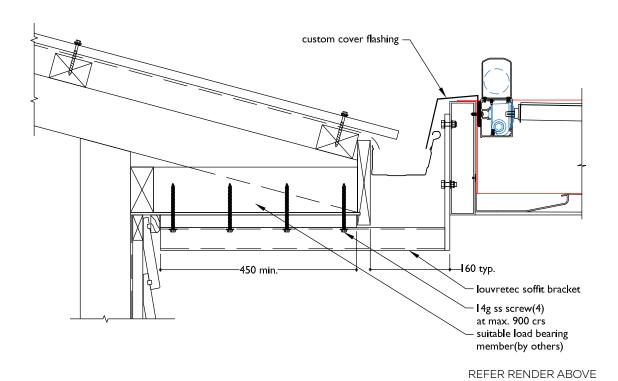


### TYPICAL DETAIL: OPTION 2B. FLUSH TO GUTTER - SOFFIT FIXED



BRACKET FIXED TO UNDERSIDE OF SOFFIT. BOX SECTION SITS ABOVE GUTTER WITH FLASHING INTO GUTTER.

#### SECTION OPTION 2B - FRAME TO FASCIA - SOFFIT BRACKET



DATE MODIFIED: 01/10/2024 FILE: STRUCTURAL 4.19

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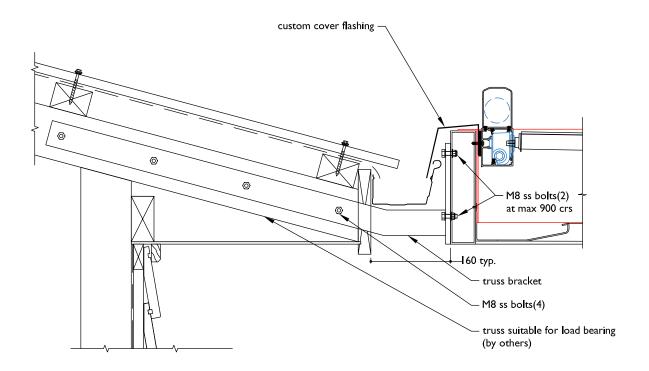


#### TYPICAL DETAIL: OPTION 2C. FLUSH TO GUTTER - RAFTER FIXED



BRACKET FIXED TO RAFTER. BOX SECTION SITS ABOVE GUTTER WITH CAP FLASHING INTO GUTTER.

### SECTION OPTION 2C - FLUSH TO GUTTER - TRUSS OR RAFTER FIXING



REFER RENDER ABOVE



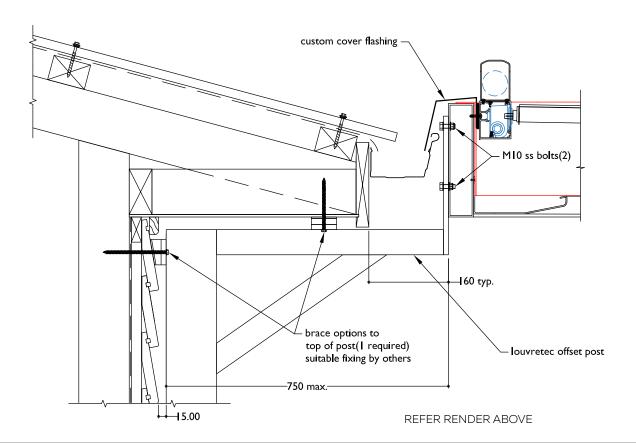
### TYPICAL DETAIL: 2D. FLUSH TO GUTTER - FREE STANDING



FREE STANDING POST SUPPORTS BOX SECTION ABOVE GUTTER, WITH CAP FLASHING INTO GUTTER. USE THIS OPTION WHEN THERE ARE NO OTHER FIXING POINTS AND THE HOUSE CLADDING IS NOT SUITABLE FOR STRUCTURAL FIXING.

IF FIXING CAN BE FOUND FOR THE POST THIS WILL HELP STABILITY OF FRAME.

#### SECTION OPTION 2D - FRAME TO FASCIA - FREE STANDING OR BRACED POST

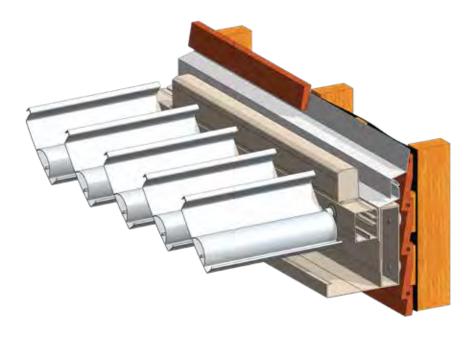


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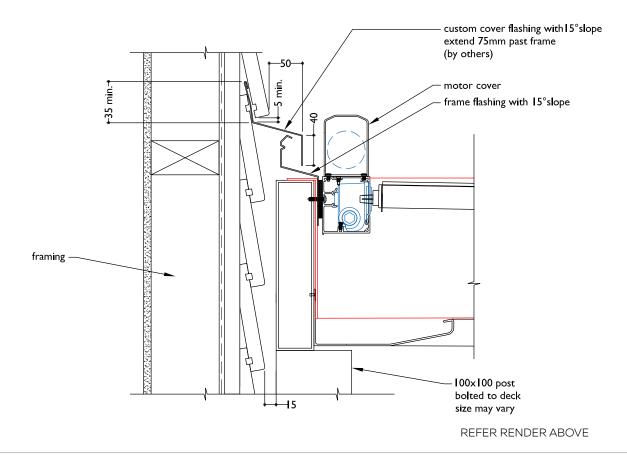


#### **TYPICAL DETAIL: OPTION 3A. FIXED DIRECTLY TO BUILDING**



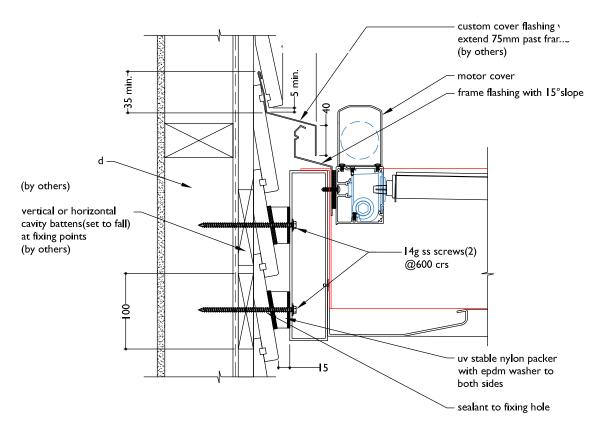
FIXED TO WEATHERBOARD CLADDING ON TIMBER FRAME WITH CAVITY. SEE ALSO OPTION FIXED WITH NO CAVITY AND FREE STANDING.

#### SECTION OPTION 3A - WEATHERBOARD ON TIMBER FRAME FREE STANDING

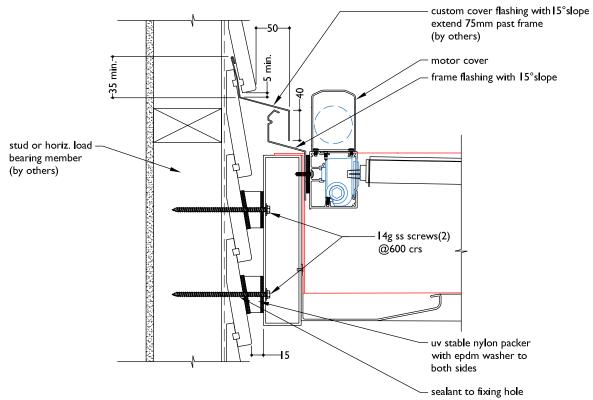




#### SECTION OPTION 3A - WEATHERBOARD ON TIMBER FRAME WITH CAVITY



### SECTION OPTION 3A - WEATHERBOARD ON TIMBER FRAME



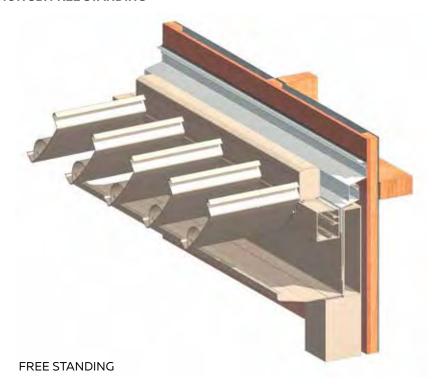
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SCALE: DATE MODIFIED: 01/10/2024 FILE: STRUCTURAL 4.23

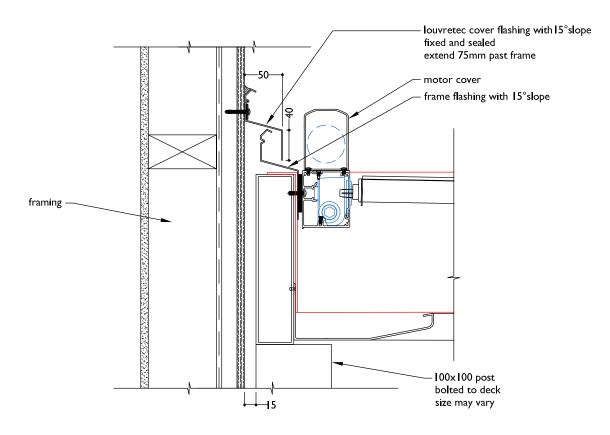
www.louvretec.com.au



### **TYPICAL DETAIL: OPTION 3B. FREE STANDING**

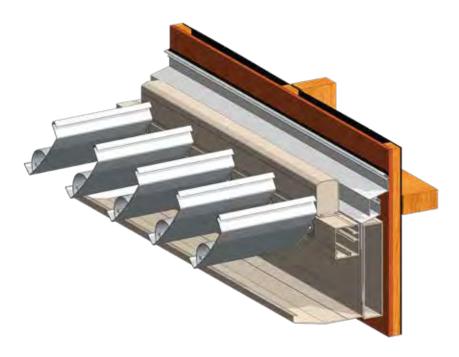


### SECTION OPTION 3B SHEET ON TIMBER FRAME - FREE STANDING



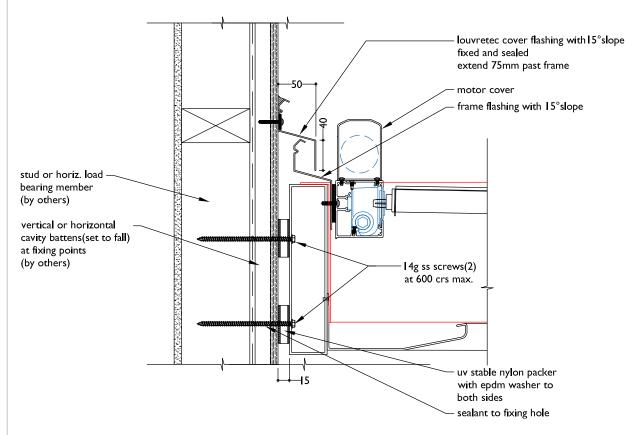


### TYPICAL DETAIL: OPTION 3B. FIXED DIRECTLY TO BUILDING



STRUCTURAL FRAME FIXED TO SHEET ON TIMBER FRAME.

### SECTION OPTION 3B SHEET ON TIMBER FRAME. FIXED COVER FLASHING



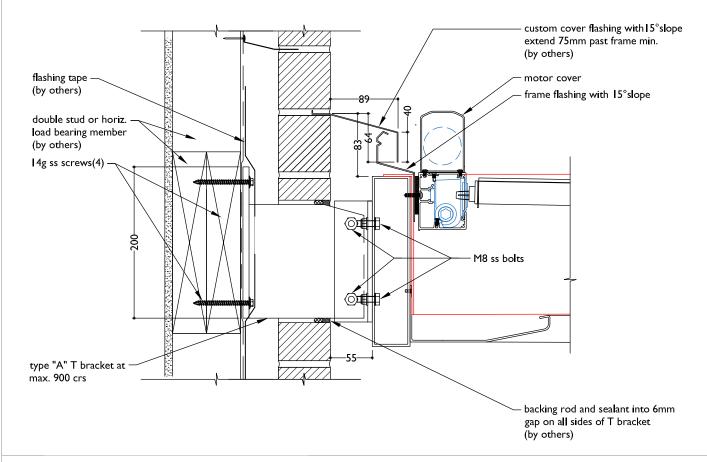
SCALE: DATE MODIFIED: 01/10/2024 FILE: STRUCTURAL 4.25

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### SECTION OPTION 3B SHEET ON TIMBER FRAME custom cover flashing with 15° slope extend 75mm past frame (by others) motor cover frame flashing with 15°slope stud or horiz. load bearing member (by others) vertical or horizontal cavity battens(set to fall) at fixing points (by others) 14g ss screws(2) @600 crs uv stable nylon packer with epdm washer to both sides REFER RENDER ON PREVIOUS PAGE 4.25

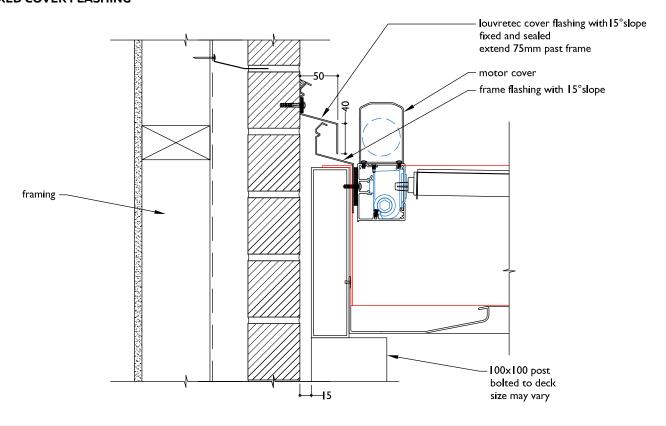
#### SECTION BRICK ON TIMBER FRAME



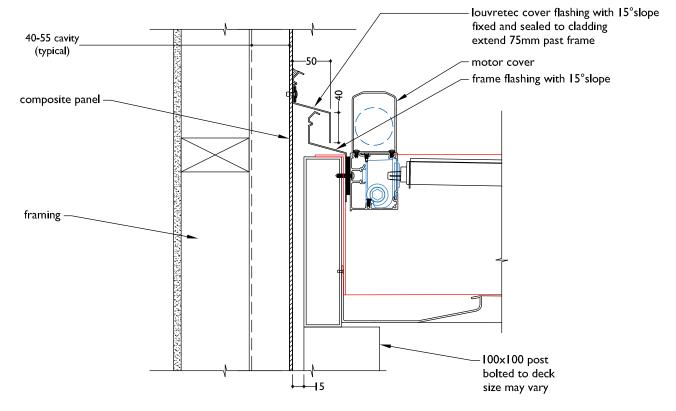


sealant to fixing hole

# SECTION BRICK ON TIMBER FRAME FREE STANDING FIXED COVER FLASHING



# SECTION COMPOSITE PANEL ON TIMBER FRAME FREE STANDING FIXED COVER FLASHING

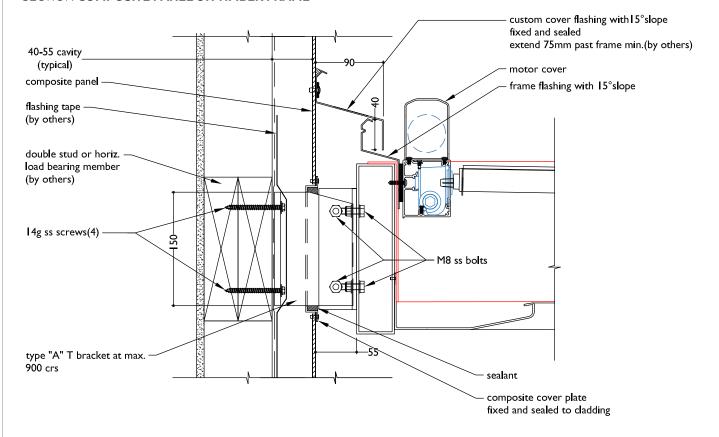


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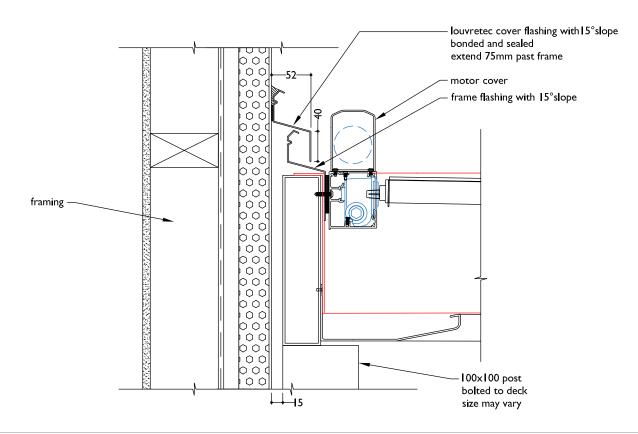
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#### SECTION COMPOSITE PANEL ON TIMBER FRAME

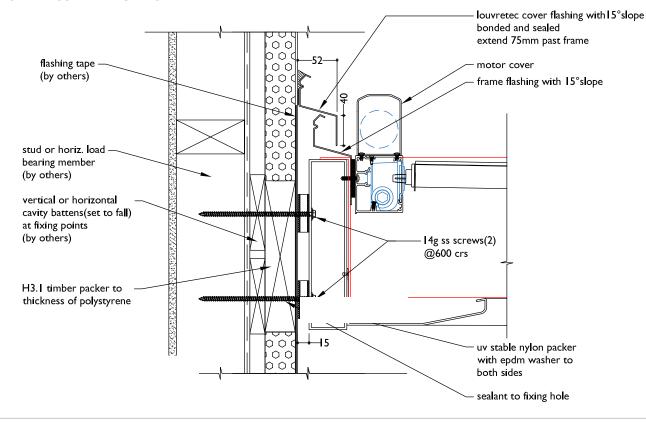


### SECTION BRICK ON TIMBER FRAME - FREE STANDING BONDED COVER FLASHING

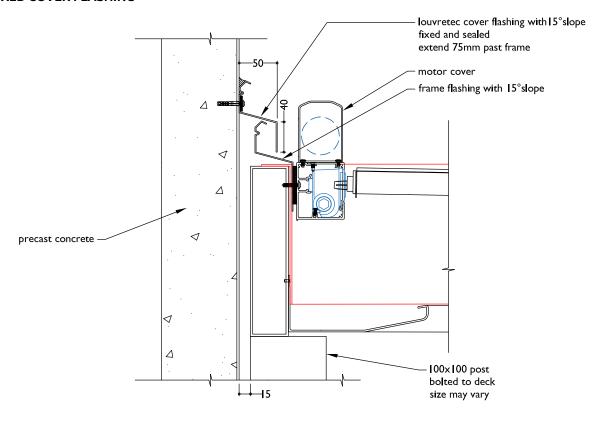




### SECTION POLYSTYRENE ON TIMBER FRAME - FIXED TO BUILDING BONDED COVER FLASHING



# SECTION CONCRETE - FREE STANDING FIXED COVER FLASHING

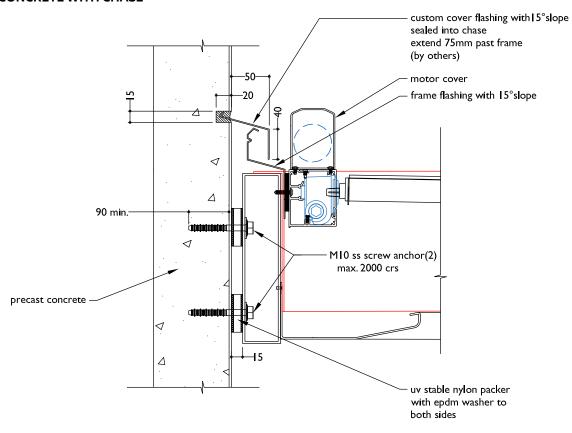


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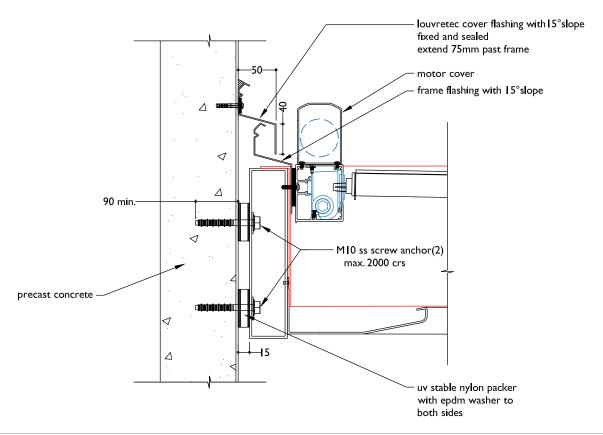
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### SECTION CONCRETE WITH CHASE



### SECTION CONCRETE NO CHASE. FIXED COVER FLASHING



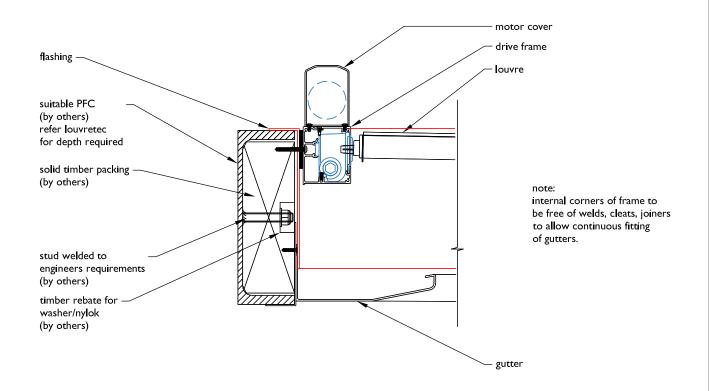


#### TYPICAL DETAIL: FIXING OPENING ROOF FIXING TO P.F.C



INSIDE FACE MUST BE FLUSH TO FIT THE OPENING ROOF GUTTER AND PIVOT SYSTEM ONTO.

### SECTION PFC WITH WELDED STUDS FOR TIMBER INFILL



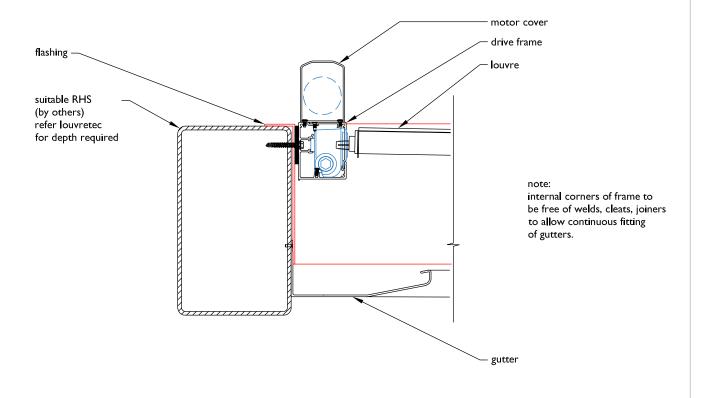
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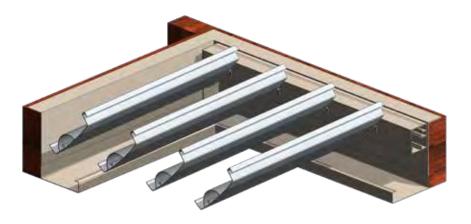
### SECTION PFC WITH BOLTED TIMBER INFILL motor cover drive frame flashing louvre suitable PFC (by others) refer louvretec for depth required solid timber packing -(by others) note: internal corners of frame to be free of welds, cleats, joiners to allow continuous fitting of gutters. coach bolt to engineers requirements (by others) timber rebate for washer/nylok (by others) gutter -

#### SECTION STEEL RHS



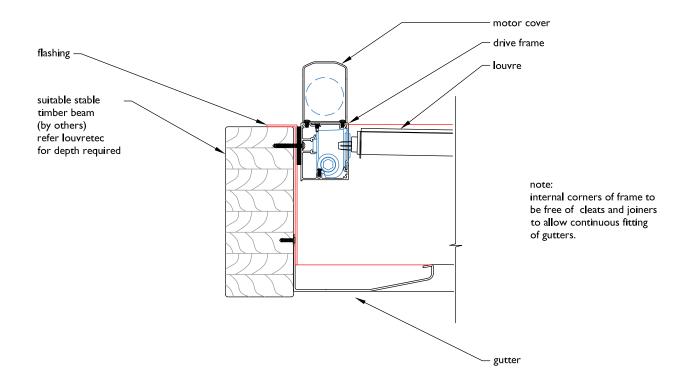


### TYPICAL DETAIL: OPENING ROOF FIXING TO TIMBER BEAM



TO REDUCE TWISTING, WARPING OR MOVEMENT, GLULAM LAMINATED BEAMS (OR SIMILAR) ARE RECOMMENDED.

### SECTION TIMBER BEAM

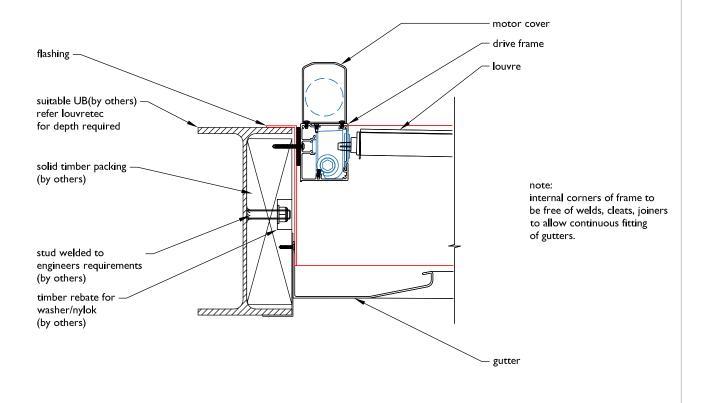


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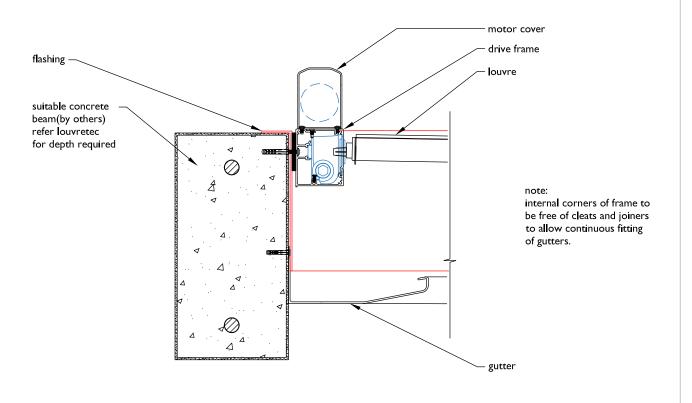
www.louvretec.com.au



### SECTION STEEL UNIVERSAL BEAM



#### **SECTION CONCRETE BEAM**





NOTES		



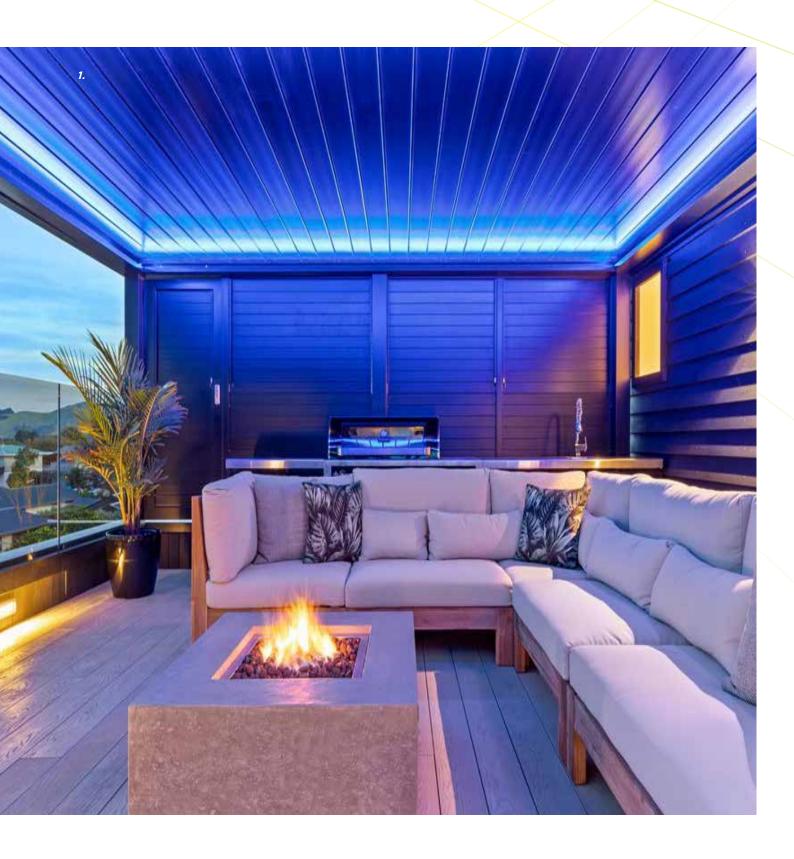


# LIGHT-TEC LIGHTING



Gallery and Overview 7.02 - 7.05
Lighting to inside face of gutter 7.06
Lighting to front face of gutter 7.07
Downlights under frames 7.08
Typical Detail gutter lighting 7.09
Typical Detail downlights 7.10
Warranty 7.11-7.12

### GALLERY LIGHTING



### GALLERY LIGHTING







### LIGHT-TEC CUSTOM RANGE OF PREMIUM OUTDOOR LIGHTING OPTIONS



All controlled by your Louvretec Remote Controller





1. LIGHTING TO INSIDE FACE OF GUTTER



2. LIGHTING TO FRONT FACE OF GUTTER



3. DOWNLIGHTS IN CONDUIT



### Designed for lighting outdoor spaces:

Louvretec has developed the Light-tec custom range of premium lighting options, specifically to enhance a Louvretec Room, but equally as well suited for any Louvretec installation.

### New technology:

- $\cdot$  Light-tec is environmentally friendly, incorporating the very latest in silicon extrusion technology
- Dot-free, flexible, ultra-thin, ultra powerful and fully dimmable, the Light-tec range has been designed to seamlesly blend into the gutter and frame extrusion.

### Three Light-tec options:

# 1. Continuous LED Pure Flow strip lighting to inside face of gutter

This popular option shines diffused light onto the underside of the louvre blade

# 2. Continuous LED Neon strip lighting to front face of gutter

The ultra slim strip sits flush with the front face of the lighting clip providing seamless, continuous lighting to the inside of the Louvretec Room

### 3. Underframe downlights

This option allows for lighting across the width of the Opening Roof or Outdoor Room.

### All on 1 controller:

- $\boldsymbol{\cdot}$  One controller takes care of all motorisation, lighting and heating
- Set-up by your Louvretec Dealer, very little instruction is required simply scroll through the screen display until the graphic showing your desired option appears.
- $\cdot\,\mathsf{A}$  simple two-button operation covers all functions.

NOTE: LIGHTING OPTIONS CAN VARY BETWEEN DEALERS AND COUNTRIES. DISCUSS SPECIFIC OPTIONS WITH YOUR LOCAL LOUVRETEC DEALER.

### LOUVRETEC LIGHTING OPTIONS



# 1. LIGHTING TO INSIDE FACE OF GUTTER

### Light-tec Gutter Lighting

Inside face gutter lighting is our most requested lighting option

Louvretec's new reversible strip gutter lighting extrusion provides a lighting option to the inside face of the gutter.

The continuous LED Pure Flow strip fits to the top inside face of the gutter, providing a warm diffused light shining directly onto the underside of the opening roof blades.

Available in Warm white, fully dimmable.





DOT FREE LINEAR FOR PERFECT COLOUR CONSISTENCY



FLEXIBLE WITH A WIDER LIGHTING AREA



INSIDE FACE LIGHT-TEC GUTTER LIGHTING





# 2. LIGHTING TO FRONT FACE OF GUTTER

Light-tec Gutter Lighting

Continuous LED Neon Strip lighting is now available fixed to the front face of the gutter.

Featuring ultra-slim uniform dot free lighting, incorporating the latest in advanced silicone technology and high weather resistance.

This option provides direct illumination into the Opening Roof or Louvretec Room, with mitre cut light corners blending seamlessly.

Available in Warm white, fully dimmable



FRONT FACE LIGHT-TEC GUTTER LIGHTING



ADVANCED PROCESS SILICONE EXTRUSION DOT-FREE TECHNOLOGY



SUPER FLEXIBLE WITH ULTRA SLIM SIZE

### LOUVRETEC LIGHTING OPTIONS



### 3. DOWNLIGHTS IN CONDUIT

Light-tec Downlights under frames

These beautiful compact micro downlights fit neatly within our custom two-piece Lighting conduit.

Typically the conduit fits underneath the aluminium box section frame, incorporating the lights "plug and play"wiring, which is hidden but easily accessible.

Bright enough for reading but fully dimmable.

Available in Warm white







MIRA LOW LED LIGHT

DOWNLIGHT LIGHT-TEC LIGHTING WITHIN CONDUIT TYPICALLY FIXING TO ALUMINIUM BOX SECTION FRAME

# $\label{thm:typical detail: lighting} \textbf{Lighting to inside face of gutter } \textbf{Lighting to front face of gutter}$



1. LIGHTING TO INSIDE FACE OF GUTTER



TYPICAL DETAIL VIEWED FROM INSIDE



2. LIGHTING TO FRONT FACE OF GUTTER



TYPICAL DETAIL MITRED CORNER



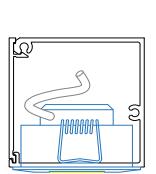
### TYPICAL DETAIL: LIGHTING LIGHTING TO UNDERSIDE OF BEAM



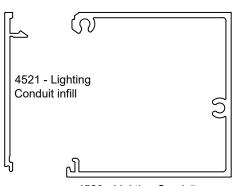
3. DOWNLIGHTS IN CONDUIT



MIRA LOW LED LIGHT

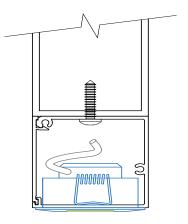


ASSEMBLED CONDUIT WITH DOWNLIGHT FITTED



4520 - Lighting Conduit

LIGHTING CONDUIT 2 PIECE EXTRUSIONS



ASSEMBLED CONDUIT FIXED TO BEAM



### LOUVRETEC PRODUCT WARRANTY

### BROMIC HEATING LIGHTING



#### 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.



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 PRODUCT WARRANTY







PRODUCTS	IDENTIFICATION	WARRANTY
PLATINUM SMART HEAT ELECTRIC		3 YEARS REPLACEMENT
PLATINUM SMART HEAT ELECTRIC MARINE		3 YEAR REPLACEMENT
ECLIPSE SMART HEAT ELECTRIC		3 YEARS REPLACEMENT
PRODUCTS	IDENTIFICATION	WARRANTY
LED PURE FLOW STRIP LIGHTING		2 YEARS REPLACEMENT
LED NEON STRIP LIGHTING		2 YEAR PARTS
UNDERFRAME DOWNLIGHTS		2 YEARS REPLACEMENT

UNDER THIS LIMITED WARRANTY, THE WARRANTOR WILL PROVIDE ONLY A REPLACEMENT HEATER OR LIGHTING OR PART THEREOF. THE OWNER IS RESPONSIBLE FOR ALL OTHER COSTS.

SUCH COSTS MAY INCLUDE, BUT ARE NOT LIMITED TO:

- LABOUR CHARGES FOR SERVICE, REMOVAL, OR RE-INSTALLATION OF THE HEATER OR LIGHTING OR PART THEREOF.
- SHIPPING AND DELIVERY CHARGES FOR FORWARDING THE NEW HEATER, LIGHTING OR REPLACEMENT PART FROM THE NEAREST DISTRIBUTOR AND RETURNING THE CLAIMED DEFECTIVE HEATER, LIGHTING OR PART TO SUCH DISTRIBUTOR.
- ALL COST NECESSARY OR INCIDENTAL FOR HANDLING AND ADMINISTRATIVE CHARGES AND FOR ANY MATERIALS AND/OR PERMITS REQUIRED FOR INSTALLATION OF THE REPLACEMENT HEATER OR LIGHTING OR PART.

LOUVRETEC NZ LTD

Head office: 23c Douglas Alexander Parade, Albany 0632, Auckland New Zealand

T+64 9 415 4949

E info@louvretec.co.nz

www.louvretec.com

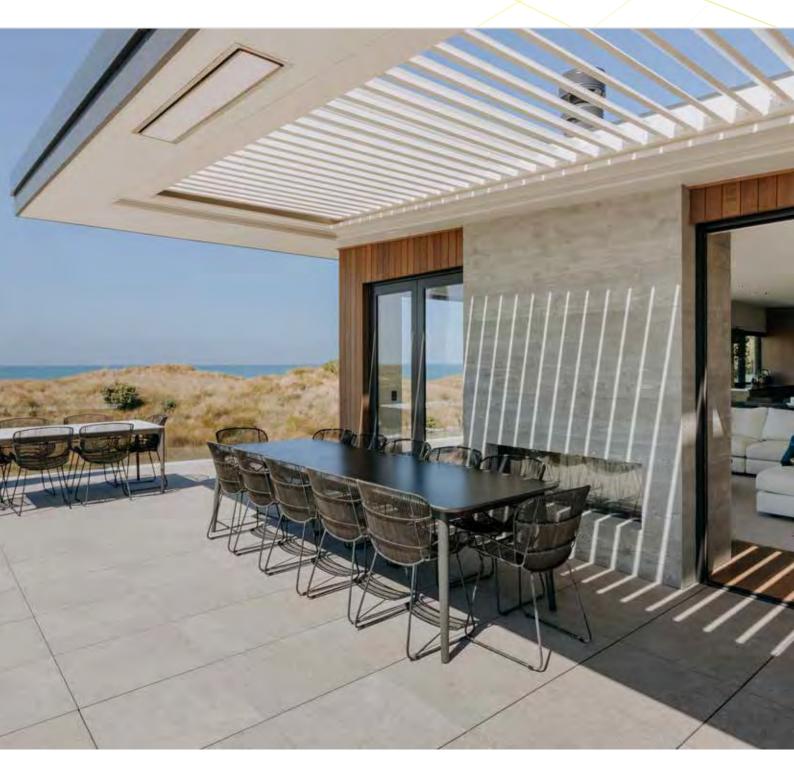




## HEATING



Overview 8.02 - 8.05
Bromic Platinum Smart Heat Electric 8.06
Bromic Platinum Smart Heat Electric Marine Eclipse Smart Heat Electric 8.09
Heating output and controllers 8.10 - 8.11
Mounting and Installation Options 8.12 - 8.14
Warranty Information 8.15 - 8.16

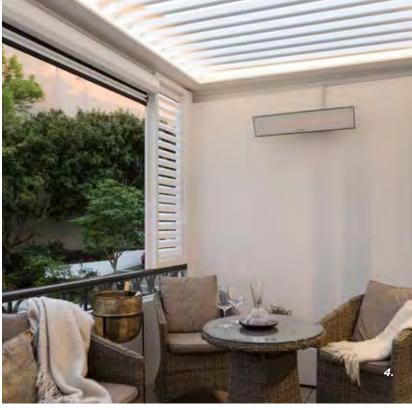


EXTEND YOUR COMFORT OUTDOORS WITH THE SUPERIOR HEAT AND AWARD WINNING DESIGN OF OUR SMART HEAT OUTDOOR HEATERS



























Up to two heaters can operate via Louvretec's hand held controller or wall mounted wireless remote switches.

### LOUVRETEC HEATING

#### BROMIC HEATING - supplied by Louvretec

Sleek, Seamless, Modern. Introducing the Bromic range of Outdoor Heaters. Make the most of your outdoor spaces all year long.

#### Designed for heating outdoor spaces

- Most Louvretec Dealers offer a suitable outdoor heater option. This can vary between Dealers.
- $\cdot$  Louvretec recommends and distributes throughout NZ the Bromic range of Outdoor Heaters
- $\cdot$  Manufactured in Italy, Bromic Heaters are also available throughout our Australian Dealer network
- They are a stylish, effective and functional addition to a Louvretec Outdoor Room.

#### **Bromic Heaters**

- · Award winning design made of high quality stainless steel
- $\cdot$  Superior technology allowing the heater to spread radiant heat evenly across a large area creating ideal comfort
- $\cdot$  With a wide range of sizes available, find the ideal heater to suit your outdoor space
- · Black and white colours available
- With a wide array of mounting options, Bromic offers solutions to compliment any decor and provide functionality for ambiance and comfort.

#### Bromic's free complimentary design service

- Bromic offers a full design service, covering floor plans, layout and environment, heater selection and installation requirements.
- · Contact your Louvretec Dealer for further information.



#### PLATINUM SMART-HEAT ELECTRIC

- · Available in black and white, Platinum Smart Heat Electric heaters are an ideal option to consider when heating under a Louvretec Opening Roof or full Louvretec outdoor room.
- These slim-line stainless steel units spread warmth and comfort evenly, and are installed to blend seamlessly into the background.

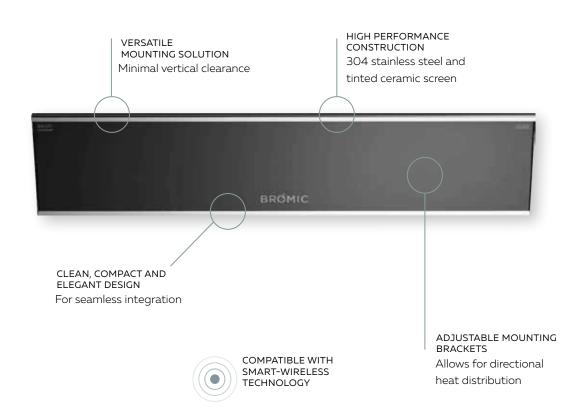


2300W; 3400W & 4500W SERIES WHITE



2300W; 3400W & 4500W SERIES BLACK







### PLATINUM SMART-HEAT™ ELECTRIC MARINE



## PLATINUM SMART-HEAT ELECTRIC MARINE

- Made in high-quality AIS316-grade stainless steel, Platinum Smart-Heat Marine heaters provide superior resistance in marine or coastal environments.
- · Available in black or white finish this exceptional heater is backed by an industry leading 5-year warranty.



2300W; 3400W & 4500W SERIES WHITE



2300W; 3400W & 4500W SERIES BLACK

VERSATILE
MOUNTING SOLUTION
Ability to wall-mount,
ceiling-mount, or recess
using either the Standard or

Low Clearance Recess Kit

HIGH PERFORMANCE STAINLESS-STEEL CONSTRUCTION Premium 316 grade stainless steel suitable for marine and coastal environment



CLEAN, COMPACT AND ELEGANT DESIGN Minimized light emissions and easy to clean in a black or white finish

DURABILITY YOU CAN TRUST Backed by an industry-leading 5-year warranty SEALED ELEMENT
Sealed compartment
with thin film elements
to prevent corrosion





## PLATINUM SMART-HEAT ELECTRIC MARINE

#### Why Platinum Marine

• To counteract the hurdles of installing an outdoor heater near the coast where standard stainless steel can "teastain"and deteriorate, Bromic engineered the Platinum Electric Marine grade heater series.

#### AISI 316 Marine-Grade Stainless Steel

 $\cdot$  Built to withstand corrosive environments with high grade materials and a fully enclosed heater body to protect internal elements.

#### Industry-Leading 5-Year Warranty

· Offering peace of mind that the heater is built to last

#### **Versatile Mounting Options**

 $\cdot$  Wall, ceiling and recessed mounting options

#### **Convenient Control Options**

• The controller that operates your Louvretec Opening or Retracting Roof also operates your heater

#### WHAT ARE CORROSIVE ELEMENTS

The high level of relative humidity in coastal areas can add to the deterioration of metals accelerating the electrochemical reactions that cause rusting and other forms of corrosion.

Some of the major threats include those made primarily of sodium chloride such as salt spray from breaking waves and onshore winds, or other atmospheric pollutants like sulfur dioxide within fog, mist and dew.





### ECLIPSE SMART-HEAT™ ELECTRIC



#### ECLIPSE SMART-HEAT ELECTRIC

- $\cdot$  Dim the lights and turn up the heat with the new Eclipse Smart-Heat Electric heater
- $\cdot$  Ideal for mid-beam mounting, the Eclipse series adds style, warmth and light to your Louvretec Outdoor space.



3000W ECLIPSE SERIES BLACK



FLEXIBLE MOUNTING OPTIONS

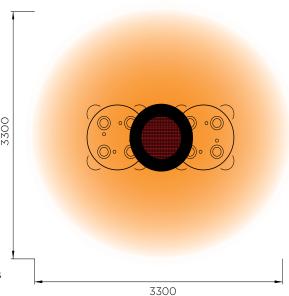
Minimal vertical clearance

requirements and a wide range of wall, ceiling and free-standing options to suit any space

PREMIUM CONSTRUCTION

Superior components ensuring longevity of use and aesthetic appeal for years to come **HEAT AREAS** 

3000W SERIES HEATING APPROXIMATELY 11M2. 3000W HEATING POWER



PRECISE CONTROL

Accurately adjust the heat output 0/30/60/100 % for complete control over the level of comfort

DIMMABLE LIGHT

Complete flexibility over lecel of brightness for the right amount of ambience

CERAMIC SCREEN

Spreads heat evenly across any area while minimising light emissions from the heating element



#### PLATINUM SMART-HEAT & PLATINUM SMART-HEAT ELECTRIC MARINE



#### Extend the outdoor experience:

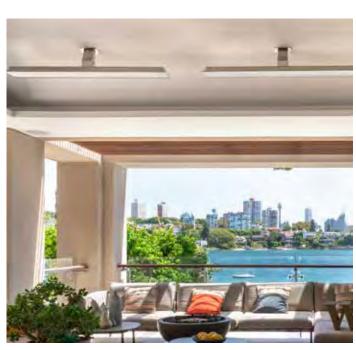
A well designed outdoor heating solution will extend the year-round use of your Louvretec outdoor space by adding warmth and comfort. The use of outdoor heaters are a great aid in keeping your outdoor space usable all year long. Bromic heaters supplied by Louvretec will maximise the use in both residential and commercial outdoor spaces

#### Understanding the challenges:

- $\cdot$  An outdoor area is not a confined space forced air systems are not effective in controlling ambient air temperature.
- · In an outdoor environment hot air rises and quickly dissipates.
- · A breeze diminishes the effect of a forced air system, making it unsuitable to use effectively for outdoor spaces.

#### The solution:

- · The only way to heat an outdoor area is through radiant heat.
- · Radiant heat warms objects, not in air in the way similar to the sun warming your skin.
- · Radiant heaters are wind resistant and can still warm people even in mild wind conditions.
- $\cdot$  This method involves projecting radiant heat onto people rather than moving warm air into the outdoor space
- $\cdot$  Radiant heating is the foundation for all Bromic heaters heating outdoor spaces effectively.



#### TYPICAL DETAIL: BROMIC HEATING: PLATINUM SMART-HEAT ELECTRIC & PLATINUM SMART-HEAT ELECTRIC MARINE GUIDE TO HEATING REACH WITHIN A LOUVRETEC OPENING ROOF

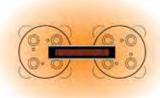
#### CHOOSE WHICH HEATER FOR YOUR APPLICATION:

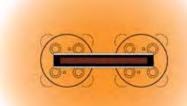
Note: An outdoor area is defined as being at least 30% open (front, back, wall or sides.)

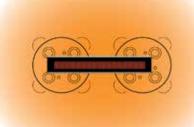
If these areas under an Opening Roof are closed in with Shutters, Outdoor Blinds or Slidetec Frameless Sliding Glass Panels, then more heat will be captured, creating a convectional heating affect.

#### TYPICAL HEATER OUTPUT:

2300W Series Heating approximately 6m2 3400W Series Heating approximately 10m2 4500W Series Heating approximately 13m2







#### 2300W Dimensions:



#### 3400W Dimensions:



#### 4500W Dimensions:



#### CONTROLLER AND ACCESSORIES: REMOTE OPTIONS

Hand Held Remote Control



Wall Mounted 1 Heater Remote Control



Wall Mounted 2 Heater Remote Control



#### STANDARD

On/Off Controller operates up to two heaters, with individual controls for each heater



#### Features:

Individual control of each heater Controls both 2400W and 3000W heaters Dimensions 145w x 210h x 80d Must be installed in a dry, shaded area eg under an eave

FOR WIRING DETAILS **REFER TO SECTION 14** 

#### DIMMER OPTION

A Dimmer Controller is available. This controls both heaters at the same time (ie, there is no individual control of each heater).



#### Features:

Dimmer function

Controls both heaters at the same time (ie no individual

Controls both 2300W and 3000W heaters

Dimmer dimensions 200w x 230h x 80d

Must be installed in a dry, shaded, well ventilated area

Must be installed upright ie heat sink at the top

DATE MODIFIED: 01/06/2024 FILE: HEATING 8.11 SCALE:

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## TYPICAL DETAIL: BROMIC HEATING MOUNTING AND INSTALLATION OPTIONS

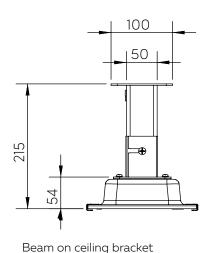
#### MOUNTING OPTIONS:

- $\cdot$  How your heater is mounted is as critical to the aesthetic design as it is to the functional output of the heater.
- $\cdot$  Typically under a Louvretec Opening Roof the heater will be mounted to the underside of a structural beam.
- $\cdot$  Where appropriate, the heater can also be mounted to the wall of the structure to which the Opening Roof is attached.
- · Louvretec has custom brackets that also include a wiring conduit for under-beam mounting.
- $\boldsymbol{\cdot}$  Discuss with Louvretec which option is best suited for your installation.
- $\boldsymbol{\cdot}$  Discuss with Louvretec and your electrician the electrical feed requirements.

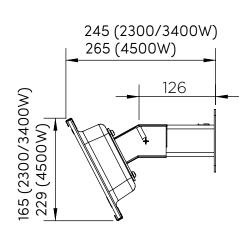


Wall mounted

#### STANDARD HEATER FIXING DETAILS



VERTICAL HEATER

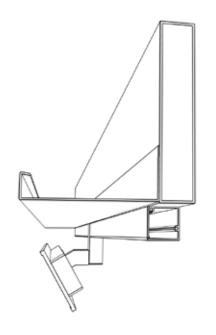


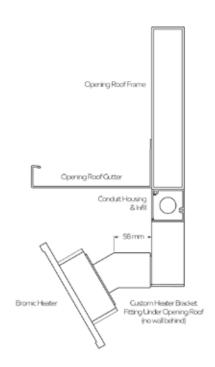
Wall bracket

HORIZONTAL HEATER

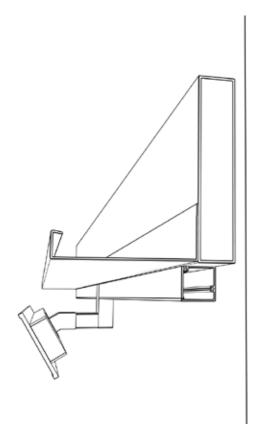


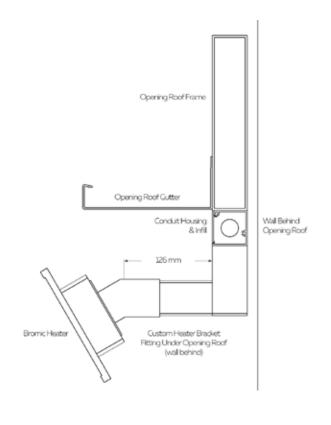
#### HEATER BRACKET FITTING UNDER OPENING ROOF - NO WALL BEHIND





#### HEATER BRACKET FITTING UNDER OPENING ROOF - WALL BEHIND





DATE MODIFIED: 01/06/2024 FILE: **HEATING 8.13** 

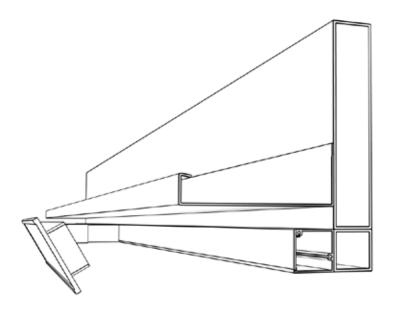
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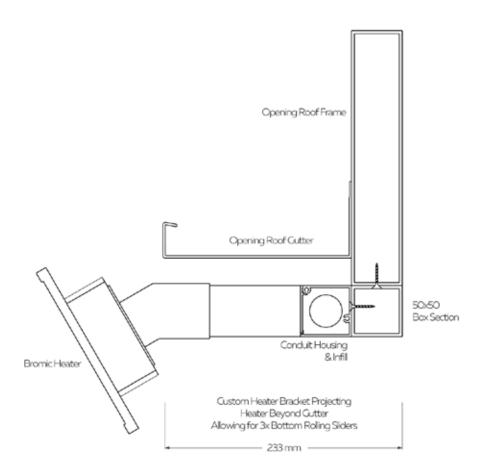
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## TYPICAL DETAIL: BROMIC HEATING CUSTOM MOUNTING AND INSTALLATION OPTIONS

HEATER BRACKET FITTING UNDER OPENING ROOF AND PROJECTING BEYOND GUTTER EXTRUSION THIS ALLOWS CLEARANCE FOR FIXING UP TO 3 OFF BOTTOM ROLLING SLIDETEC OR LOUVRED SHUTTERS







#### LOUVRETEC PRODUCT WARRANTY

## BROMIC HEATING LIGHTING



#### 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.



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.



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 PRODUCT WARRANTY







#### **BROMIC HEATING** LIGHTING

PRODUCTS	IDENTIFICATION	WARRANTY
LATINUM SMART HEAT LECTRIC		3 YEARS REPLACEMENT
LATINUM SMART HEAT LECTRIC MARINE		3 YEAR REPLACEMENT
CLIPSE SMART HEAT LECTRIC		3 YEARS REPLACEMENT
PRODUCTS	IDENTIFICATION	WARRANTY
ED PURE FLOW TRIP LIGHTING		2 YEARS REPLACEMENT
ED NEON TRIP LIGHTING		2 YEAR PARTS
INDERFRAME OWNLIGHTS		2 YEARS REPLACEMENT

UNDER THIS LIMITED WARRANTY, THE WARRANTOR WILL PROVIDE ONLY A REPLACEMENT HEATER OR LIGHTING OR PART THEREOF. THE OWNER IS RESPONSIBLE FOR ALL OTHER COSTS.

SUCH COSTS MAY INCLUDE, BUT ARE NOT LIMITED TO:

- LABOUR CHARGES FOR SERVICE, REMOVAL, OR RE-INSTALLATION OF THE HEATER OR LIGHTING OR PART THEREOF.
- SHIPPING AND DELIVERY CHARGES FOR FORWARDING THE NEW HEATER, LIGHTING OR REPLACEMENT PART FROM THE NEAREST DISTRIBUTOR AND RETURNING THE CLAIMED DEFECTIVE HEATER, LIGHTING OR PART TO SUCH DISTRIBUTOR.
- ALL COST NECESSARY OR INCIDENTAL FOR HANDLING AND ADMINISTRATIVE CHARGES AND FOR ANY MATERIALS AND/OR PERMITS REQUIRED FOR INSTALLATION OF THE REPLACEMENT HEATER OR LIGHTING OR PART.

Warranty effective from \_\_\_\_/\_\_\_ WARRANTY SPECIFIC INFO: Louvretec Representative \_\_\_\_ Site Adddress \_ Product Description\_

LOUVRETEC NZ LTD

Head office: 23c Douglas Alexander Parade, Albany 0632, Auckland New Zealand

T+64 9 415 4949

E info@louvretec.co.nz

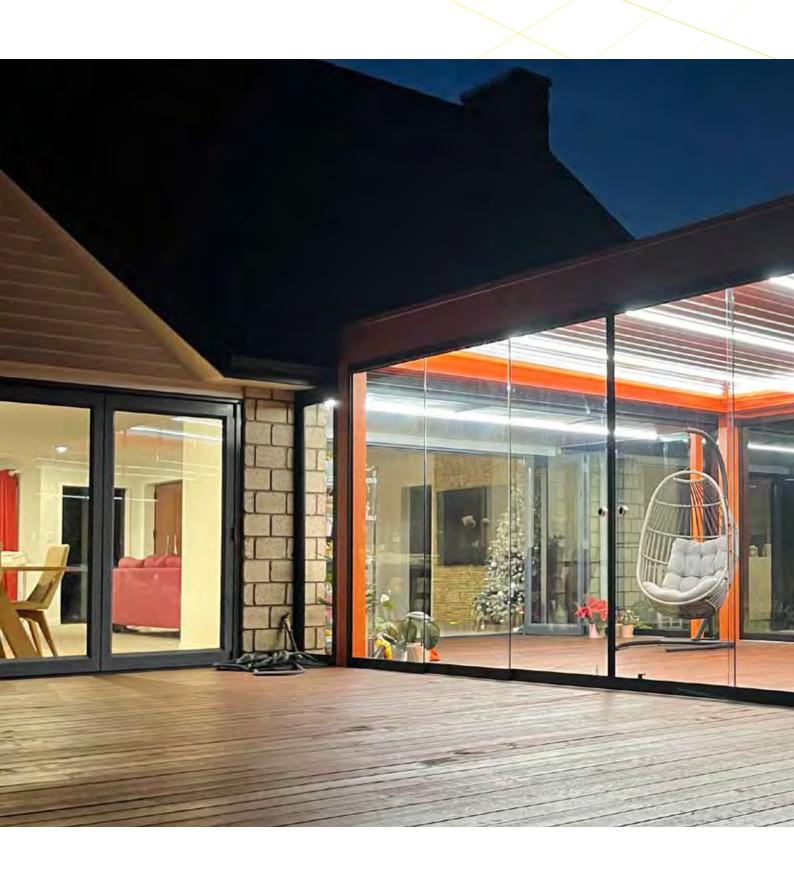
www.louvretec.com







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## SLIDETEC FRAMELESS GLASS SLIDING DOORS











1. SLIDETEC FRAMELESS GLASS DOORS OPENED 2. SLIDETEC FRAMELESS GLASS DOORS CLOSING IN THE SIDES OF OUTDOOR ROOMS AT A RETIREMENT VILLAGE

3. SLIDETEC FRAMELESS GLASS DOORS OPENED 4. CREATE A CONNECTION ©Louvretec 2025 – All Rights Reserved. Technical specifications subject to change without notice.



5. SLIDETEC FRAMELESS GLASS DOORS CLOSING 6. SLIDETEC FRAMELESS GLASS DOORS & FIXED RAKING PANEL 7. SLIDETEC HANDLE

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8. SLIDETEC FRAMELESS GLASS CREATING AN OUTDOOR ROOM

# SLIDETEC GLASS DOORS & WINDOWS & FIXED PANELS

A freshly designed range of engineered sliding & fixed glazed options.

Slidetec Frameless Glass Sliding Doors & Windows, along with Slidetec Fixed Glazing Panels offer a freshly designed range of engineered sliding and fixed glazed options.

Specifically designed for the closing in of outdoor spaces. Ideal as sliding wall infills for your Louvretec room, or simply for closing off any outdoor deck space.

## 1. Slidetec ST10 & ST12 Frameless Glass Sliding Doors

Available in 10mm & 12mm toughened glass Slidetec has been designed to meet the rigors and demands of Australian and New Zealand climatic conditions.

The sliding systems have been considerably upgraded to meet these demands, with new extrusions, and heavy duty adjustable stainless-steel ball bearing mounted sliding carriages.

Simple, clean functional lines offering clear view and wonderful protection from the elements.

#### 2. Slidetec Glazed Fixed Panels

Available in 6mm or 8mm toughened glass, Slidetec fixed panels are designed to complement and enhance the Slidetec sliding door range.

Ideal as overhead fixed panels if overall height exceeds sliding door design specifications.

Can also be used as conventional glazed fixed panels if sliding access is not required.

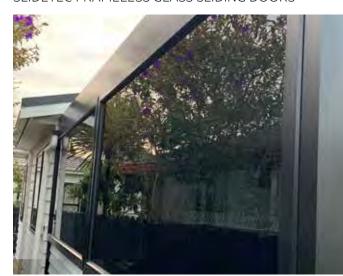
#### Enhance your outdoor space

Enhance and enjoy your outdoor spaces protected from the weather without compromising your view.

Close up snug for wet days, open wide for cooling breezes. Enjoy the best of whatever the weather has on offer.



SLIDETEC FRAMELESS GLASS SLIDING DOORS



SLIDETEC FRAMELESS GLASS SLIDING SHUTTERS



SLIDETEC GLAZED FIXED PANEL





SLIDETEC FRAMELESS GLASS SLIDING DOORS BRINGING POOLSIDE COMFORT



SLIDETEC 3 PANEL FRAMELESS GLASS SLIDING DOOR

### 1. SLIDETEC ST10 & ST12 FRAMELESS GLASS SLIDING DOORS & WINDOWS

Close in the sides of an outdoor area Slidetec Frameless Glass Sliding systems have been specifically designed for the closing in of outdoor areas.

The frameless design ensures maximum view with clean, uninterrupted lines. Designs such as these are only suitable for closing in outdoor areas and can not be used as house joinery.

#### Key features

- A wide range of panel configurations. Refer to page 5.09
- · Floor mounted sliding system
- · Standard and rebated bottom track options available.
- Has 3, 4 or 5 track sliding options giving a range of panel choices
- · Slides to the left or right as desired
- System is easy to use, with pick up blocks to ensure easy following function when closing the panels
- · Stainless steel pull handle rebated into glass standard
- $\cdot$   $\,$  Optional locking with easy to use Foot Lock
- · Glazing with 10mm or 12mm toughened glass
- Silver anodised bottom rail to enhance smooth gliding function of stainless steel bearing bottom rollers
- $\cdot$  Powder coat finish of your choice

### DIFFERENT CONFIGURATIONS & COMBINATIONS

#### Slidetec systems are extremely versatile

While appearing both simple and minimal in design, Slidetec has been designed to meet a wide range of varied applications.

Please familiarise yourself with the design options and combinations available.

#### Standard panels

- Panels range in sets from 2 glass panels to 10 glass panels
- Panels sliding in one direction are the most typically specified
- · Panels may also meet-in-the-middle (MIM), installation details being the same for both options

#### **Tracks**

- · Track options vary between 3 track, 4 track and 5 track
- · Tracks are available standard, flush or recessed

#### Glass options

- Sliding doors and windows are available in 10mm & 12mm toughened glass, determined by wind and glass
- Fixed Panels are available in 6mm & 8mm toughened glass

#### Locking

- Doors are easily locked from the inside with Louvretec's new Foot Lock
- · This is an options, please specify if required
- · A 58mm round stainless steel door pull is standard

#### Full installation details

 A fully illustrated step by step Slidetec Installation Manual is available.



SLIDETEC 5 PANEL TRACK



10MM OR 12MM TOUGHENED GLASS



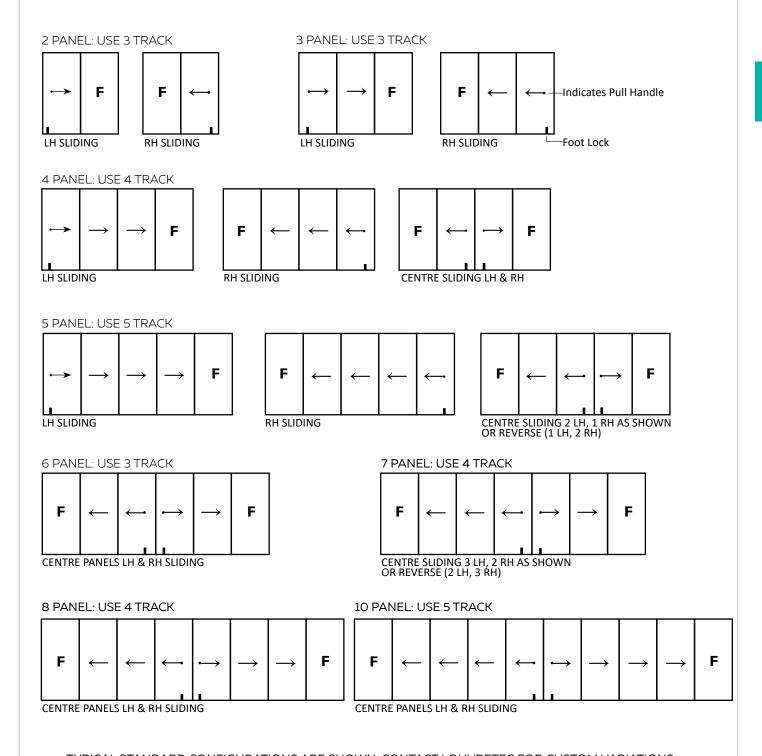
**FOOT LOCK** 



### DETAILS AT A GLANCE: CONFIGURATIONS SLIDETEC ST10 & ST12 FRAMELESS GLASS SLIDING DOORS & WINDOWS

NOTE: TYPICAL STANDARD CONFIGURATIONS ARE SHOWN. CONTACT LOUVRETEC FOR CUSTOM VARIATIONS. PLEASE INDICATE WHEN MEASURING IF VIEWED FROM OUTSIDE OR INSIDE.

NOTE: WHEN INDICATION INCLUSION OF FOOTLOCK PLEASE SHOW AS DRAWN FROM INSIDE.



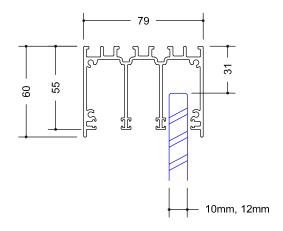
TYPICAL STANDARD CONFIGURATIONS ARE SHOWN. CONTACT LOUVRETEC FOR CUSTOM VARIATIONS



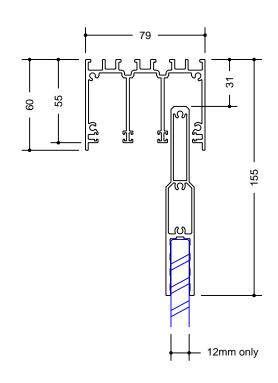
## TYPICAL DETAIL: 3 PANEL HEAD AND STANDARD TRACK CROSS SECTIONS



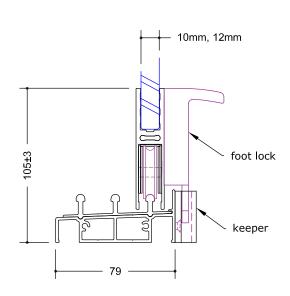
STANDARD 3 PANEL



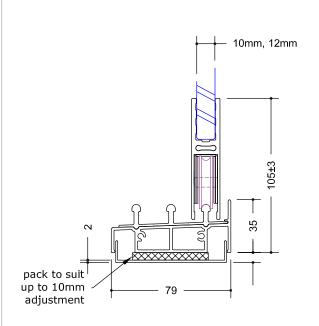
3 PANEL HEAD GUIDE



3 PANEL HEAD GUIDE WITH GLASS EXTENDER

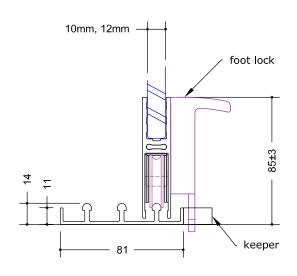


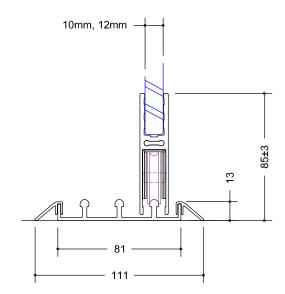
3 PANEL STANDARD TRACK & BASE



3 PANEL STANDARD TRACK & BASE WITH THREE TRACK ADAPTER CHANNEL

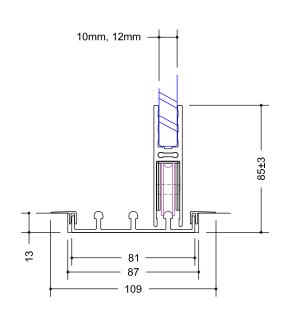


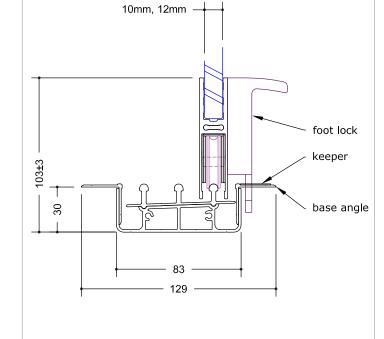




#### **FLUSH TRACK**

FLUSH TRACK WITH 45° CLIP-ONS





FLUSH TRACK WITH 90° CLIP-ONS

SCALE: DATE MODIFIED: 01/10/2024 FILE: SLIDETEC 5.11

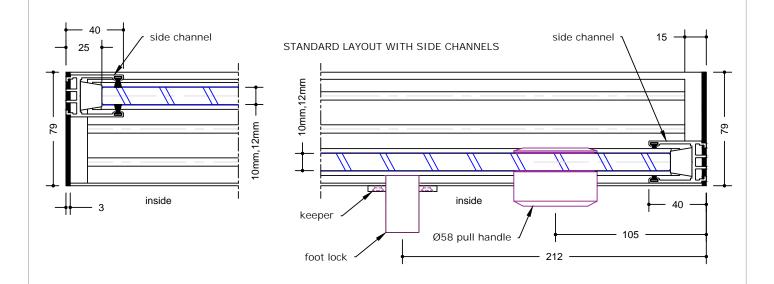
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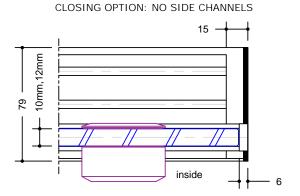
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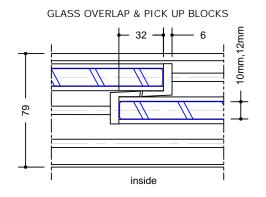


RECESSED TRACK

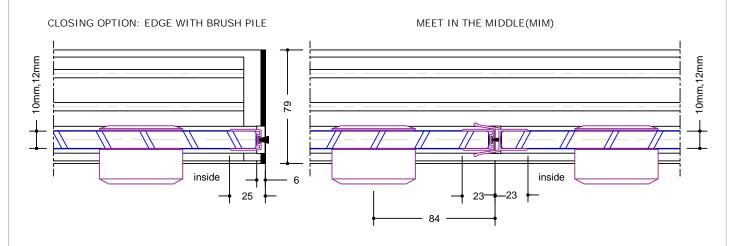
## TYPICAL DETAIL: 3 TRACK PLAN VIEW







#### SLIDE ONE WAY & MEET-IN-THE-MIDDLE (MIM)

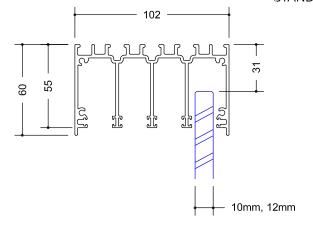


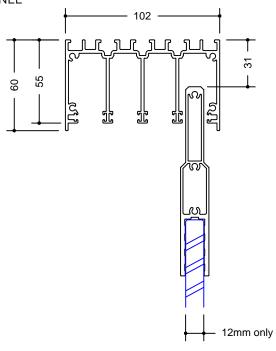
## TYPICAL DETAIL: 4 PANEL HEAD AND STANDARD TRACK CROSS SECTIONS





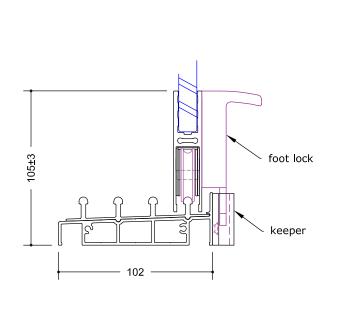
STANDARD 4 PANEL

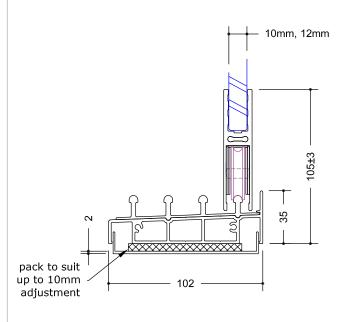




**HEAD GUIDE** 







STANDARD BASE/TRACK

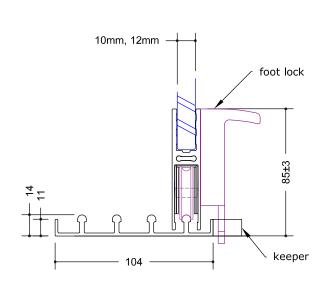
STANDARD BASE/TRACK WITH ADAPTER CHANNEL

SCALE: DATE MODIFIED: 01/10/2024 FILE: SLIDETEC 5.13

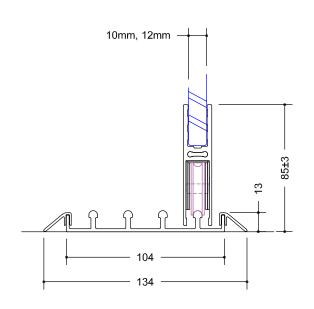
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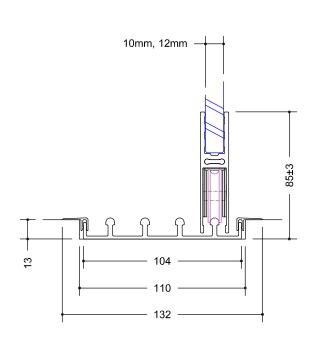




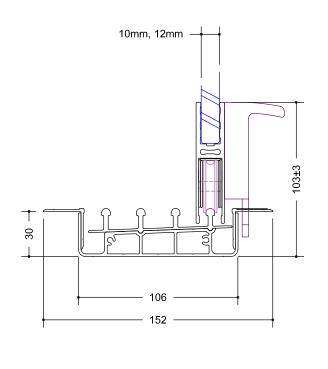
FLUSH TRACK



FLUSH TRACK WITH 45° CLIP ONS



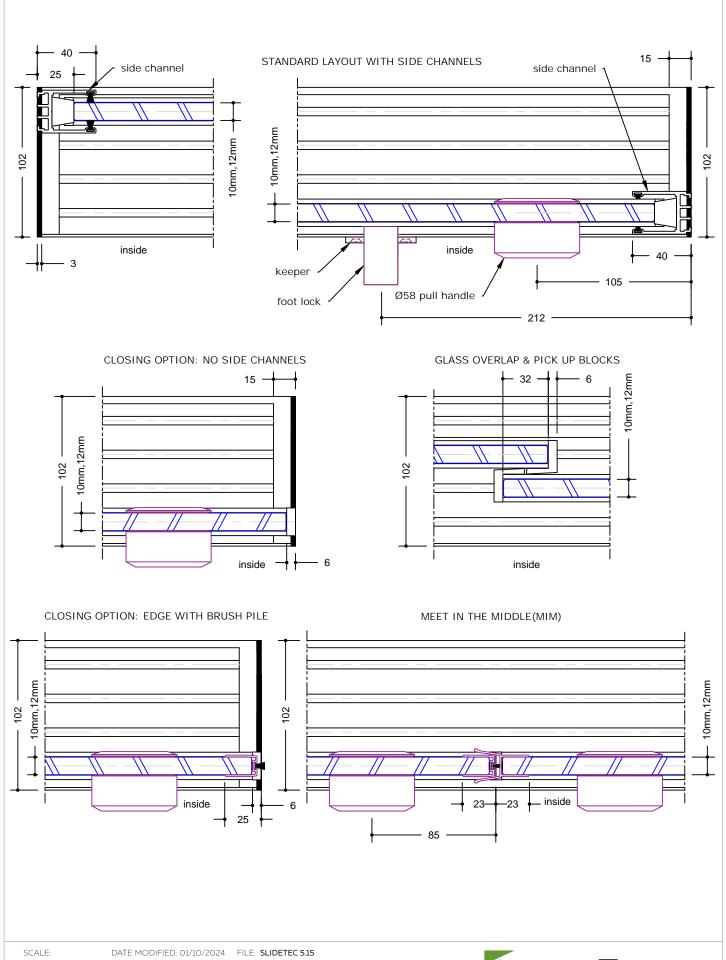
FLUSH TRACK WITH 90° CLIP ONS



LouvreTec®

RECESSED TRACK

#### **TYPICAL DETAIL: 4 TRACK PLAN VIEW**



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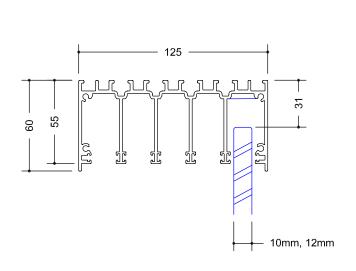
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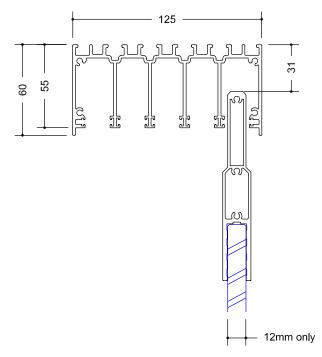
## TYPICAL DETAIL: 5 PANEL HEAD AND STANDARD TRACK CROSS SECTIONS



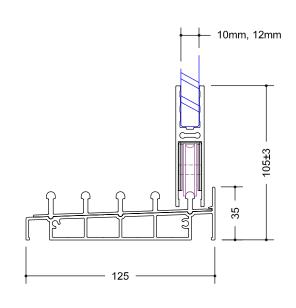
STANDARD 5 PANEL



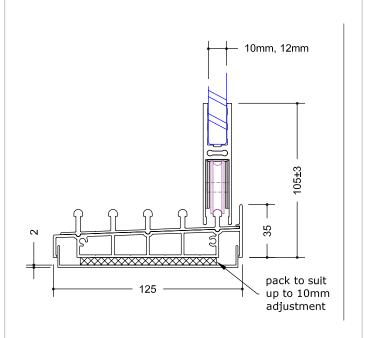
HEAD GUIDE



HEAD GUIDE WITH GLASS EXTENDER



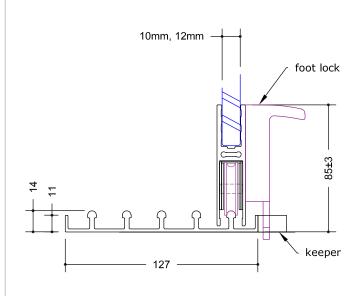


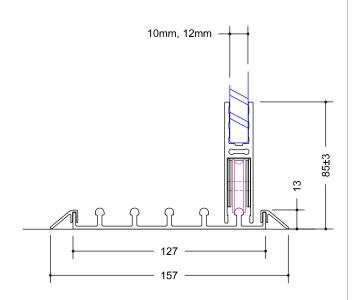


STANDARD TRACK & BASE WITH ADAPTER CHANNEL



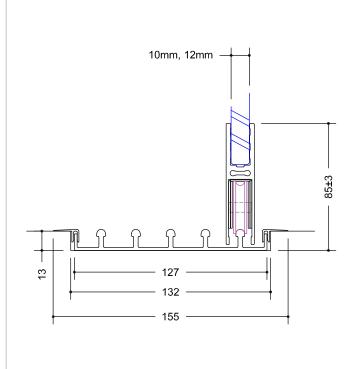
### **TYPICAL DETAIL: 5 PANEL TRACK OPTIONS**

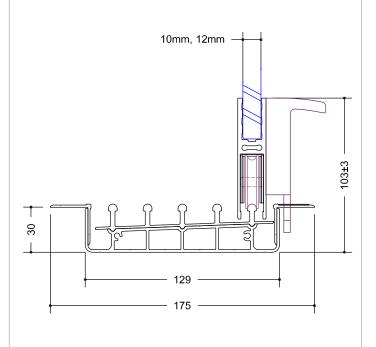




FLUSH TRACK

FLUSH TRACK WITH 45° CLIP-ONS





FLUSH TRACK WITH 90° CLIP-ONS

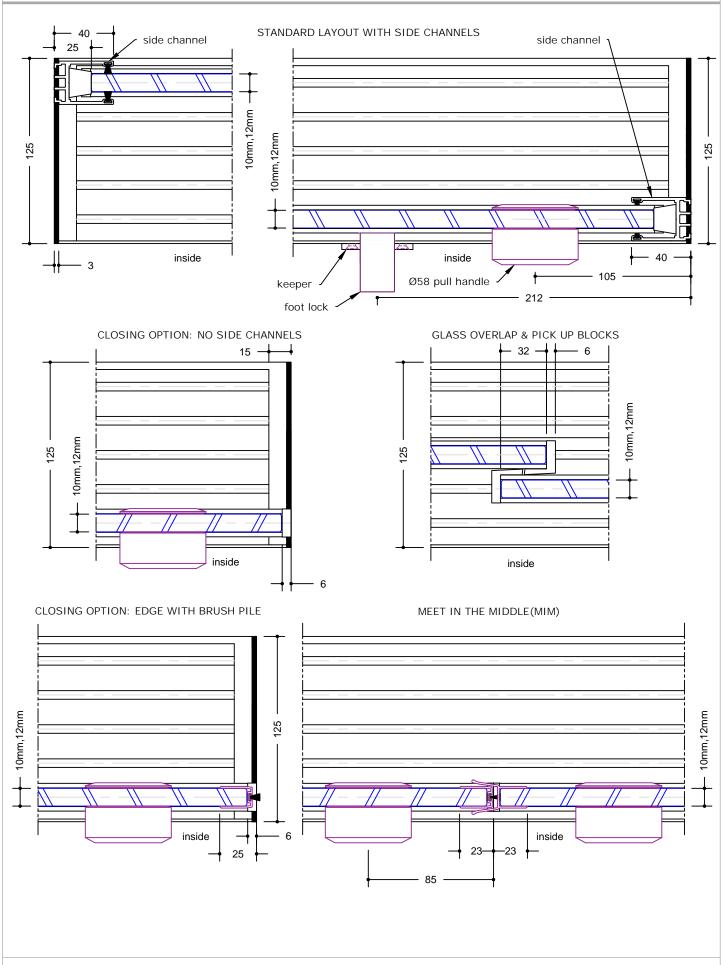
RECESSED TRACK

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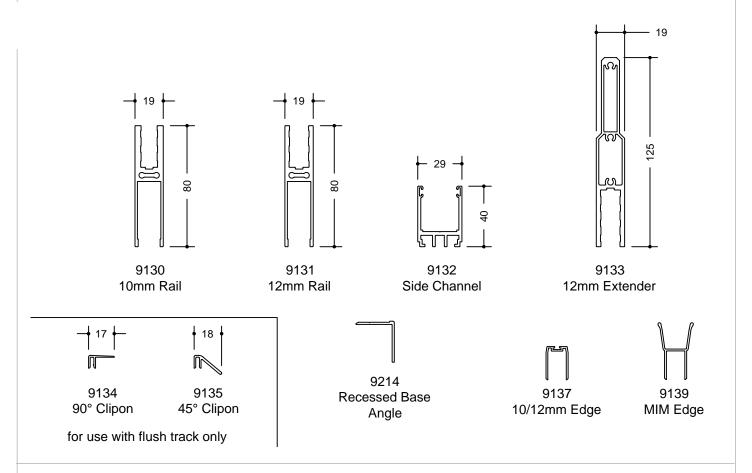
DATE MODIFIED: 01/10/2024 FILE: SLIDETEC 5.17



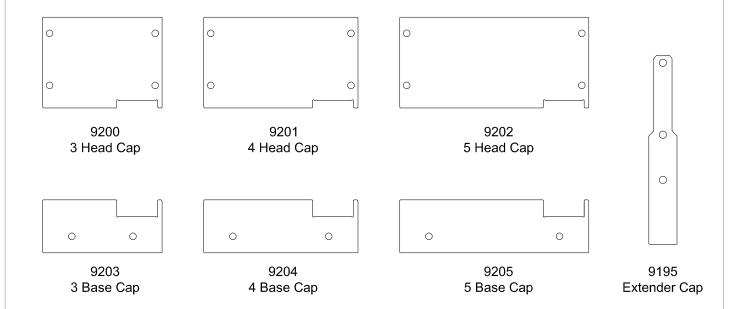
# TYPICAL DETAIL: 5 TRACK PLAN VIEW



#### SLIDETEC EXTRUSIONS



### SLIDETEC COMPONENTS



SCALE: DATE MODIFIED: 01/10/2024 FILE: SLIDETEC 5.19

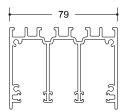
www.louvretec.co.nz www.louvretec.com.au



#### **DETAILS AT A GLANCE: SLIDETEC ST10 & ST12 EXTRUSIONS & COMPONENTS**

#### SLIDETEC EXTRUSIONS

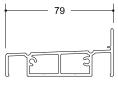
# FOR 3 PANEL INSTALLATION DETAILS REFER TO PAGES 5.10 - 5.12



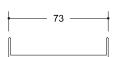
9140 3 Head Guide



9143 3 Standard Track

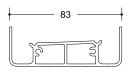


9146 3 Standard Base



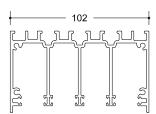
9149 3 Standard Track Adapter \*

\* NOTE: ADAPTER CHANNELS ALLOWS FOR UP TO 10MM ADJUSTMENT FOR OUT OF LEVEL SURFACES



9211 3 Recessed Base

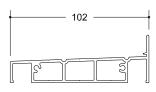
# FOR 4 PANEL INSTALLATION DETAILS REFER TO PAGES 5.13 - 5.15



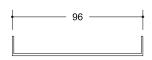
9141 4 Head Guide



9144 4 Standard Track

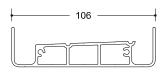


9147 4 Standard Base



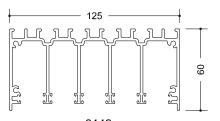
9150 4 Standard Track Adapter \*

\* NOTE: ADAPTER CHANNELS ALLOWS FOR UP TO 10MM ADJUSTMENT FOR OUT OF LEVEL SURFACES



9212 Recessed Base

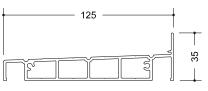
# FOR 5 PANEL INSTALLATION DETAILS REFER TO PAGES 5.16 - 5.18



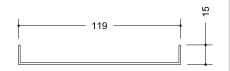
9142 5 Head Guide



9145 5 Standard Track

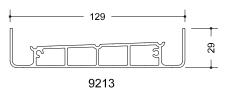


9148 5 Standard Base



9151 5 Standard Track Adapter \*

\* NOTE: ADAPTER CHANNELS ALLOWS FOR UP TO 10MM ADJUSTMENT FOR OUT OF LEVEL SURFACES



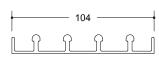
5 Recessed Base

# FLUSH TRACK REQUIRING A CONTINUOUS LEVEL SURFACE TO FIX TO

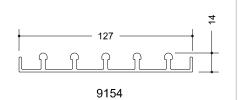


9152 3 Flush Track

LouvreTec®



9153 4 Flush Track



5 Flush Track

### FILE: RETRACT 5.20

#### **DETAILS AT A GLANCE: SLIDETEC ST10 & ST12 COMPONENTS**

#### SLIDETEC COMPONENTS & HARDWARE - STANDARD



9165 9166 9167 Plain Left Right Glass Rail End Caps - catch panels as they pull along.



9171 Carriage



9169 Back Stop(44mm) 44mm long



9175 Headguide Brushpile for 10mm glass 48-650 9176 Headguide Brushpile for 12mm glass 48-500 9177 Side Channel Brushpile



9187 Ø58mm Pull (S/S)



9188 Ø58mm Pull (Black PVC)



9178 **Double Sided** Tape



48-1000

9179 Vinyl Wrap



Buffer

### SLIDETEC COMPONENTS & HARDWARE - MEET IN THE MIDDLE (MIM) SETS



MIM Centre Stop

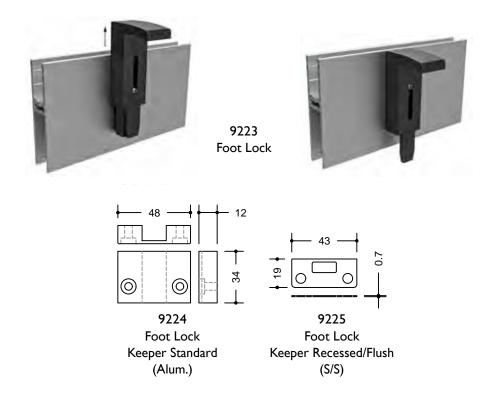


MIM Edge 10/12mm Edge

9137



#### **FOOT LOCK**



#### SAFE & SECURE

The Foot lock lets you easily lock the Slidetec Frameless Glass Door panels in place by pushing down on top of the Footlock with your foot. The easy to use Footlock has been designed to easily get your foot under the lock when you're ready to unlock and slide the doors back again.

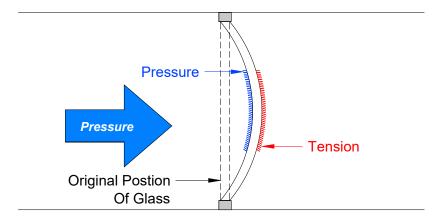


# WIND LOADS & DEFLECTIONS

Calculating glass & overall maximum opening height

#### **DEFLECTION**

The amount of movement of glass under uniform wind pressure (wind load).



When wind loads are applied to glass it causes both compression and tensile stresses as illustrated in the diagram above.

The face of the glass that has the load imposed on it is subject to compressive stresses for which the glass has a high resistance. The opposite face has the tensile stresses applied to it for which glass has a lower resistance.

10mm & 12mm toughened glass deflects to the same extent, but toughened glass can withstand more deflection before breaking.

#### DETERMINING THE WIND LOAD

The actual design wind load pressure for each individual application can be determined by specific engineering design using NZS 4203 or AS/NZS 1170. Most regulatory authorities offer information relevant to the job specific site – on larger projects the project engineer will provide this information. Loads will vary due to ground terrain, building height and glazing location, with much higher loads on the corners of buildings and edges of roofs.

ULTIMATE WIND PRESSURE (UWP)

WIND ZONE	WIND ZONE	BASIC WIND	ULTIMATE WIND
WIND ZONE	SYMBOL	SPEED M/S	PRESSURE PA
Low	L	32	650
Medium	М	37	850
High	Н	44	1200
Very High	VH	50	1550
Extra High	EH	55	-

# **GLASS**

The key component - A sheet of toughened 10mm or 12mm glass



## Everything revolves around the glass

- · Slidetec Glass Sliders are designed around the tensile strength or toughened glass.
- · The Glass Span Charts (further on in this manual) determine (based on wind zones) the required glass thickness and heights of the panels
- · Spans to NZ Standards are based on a specific deflection of span/60 with a max of 40mm in the given wind zone
- $\cdot$  The deflection is based on a minimum tensile strength requirement of 70 mPa and is covered by a generic PS1
- · This surpasses the NZ/AU Standard minimum and can only be signed off by a suitably qualified engineer with a site specific PS1
- · Slidetec can be supplied as completed panels or as pre-finished extrusion cut and milled to size, along with all componentry required. A job specific glass cutting sheet will be supplied to the Dealer who will source the glass locally
- · A step by step Installation Guidelines document will be supplied specific to each job

# SLIDETEC SPAN CHART

Glass Span (visible si	ght line)					
	NZS3604 Wind Zone:	Low	Medium	High	Very High	Extra High
Glass Thickness						
10mm	Maximum Span	2285	2080	1855	1705	1600
12mm	Maximum Span	2760	2510	2235	2055	1930

<sup>\*</sup>Glass spans in this chart limited to installations associated with buildings up to importance level 2, under 10m high, and within a designated general wind-zone (not SED).

The figures below give the maximum opening height per type of application. Refer to sheet 2 of this publication for further explanation / detail.

Standard Base/Track	(includes guide/track)	of 160mm)				
	Wind Zone:	Low	Medium	High	Very High	Extra High
Glass Thickness						
10mm	Maximum Opening	2445	2240	2015	1865	1760
12mm	Maximum Opening	2920	2670	2395	2215	2090

Standard Base/Track	& Extender (includes	guide/track/	extender of 2	260mm)		
	Wind Zone:	Low	Medium	High	Very High	Extra High
Glass Thickness			•			
10mm	Maximum Opening	2545	2340	2115	1965	1860
12mm	Maximum Opening	3020	2770	2495	2315	2190

Recessed Base/Trac	k (includes guide/track	of 130mm)				
	Wind Zone:	Low	Medium	High	Very High	Extra High
Glass Thickness						
10mm	Maximum Opening	2415	2210	1985	1835	1730
12mm	Maximum Opening	2890	2640	2365	2185	2060

Recessed Base/Track	k & Extender (includes	guide/track/	extender of 2	230mm)		
	Wind Zone:	Low	Medium	High	Very High	Extra High
Glass Thickness			•			
10mm	Maximum Opening	2515	2310	2085	1935	1830
12mm	Maximum Opening	2990	2740	2465	2285	2160

Flush Track (includes	s guide/track of 140mm	)				
	Wind Zone:	Low	Medium	High	Very High	Extra High
Glass Thickness			-			
10mm	Maximum Opening	2425	2220	1995	1845	1740
12mm	Maximum Opening	2900	2650	2375	2195	2070

Flush Track & Extend	der (includes guide/tra	ck/extender	of 240mm)			
	Wind Zone:	Low	Medium	High	Very High	Extra High
Glass Thickness						
10mm	Maximum Opening	2525	2320	2095	1945	1840
12mm	Maximum Opening	3000	2750	2475	2295	2170

Drawn By	Viridian-DY
Scale	NA @ A4
Date	Feb 2025

LouvreTec<sub>™</sub> New Zealand Ltd All dimensions in mm unless stated otherwise

SCALE: DATE MODIFIED: 01/10/2024 FILE: SLIDETEC 5.25

www.louvretec.com.au



<sup>\*</sup>This span chart can only be used in conjunction with toughened safety glass supplied by Viridian Glass (NZ).

<sup>\*</sup>All glass panel related PS1 documents to be supplied by Viridian Glass (NZ).

<sup>\*</sup>This standard design PS1 covers glass selection to NZS4223.3 and NZS4223.4 only (frame design and support of the glass panels is excluded).

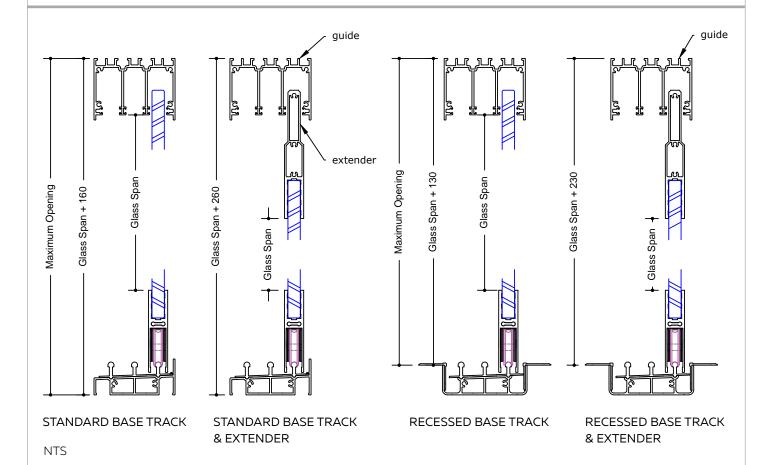
<sup>\*</sup>Max glass spans to the NZ standard are based on a maximum allowable deflection of span/60 in the given wind-zone.

<sup>\*</sup>The glass span tables do not take into account any deflection caused by bending of the SlideTec frames.

<sup>\*</sup>Glazing safeguarding a fall of 1m or more requires specific design.

<sup>\*</sup>Minimum panel width = 500mm. Maximum panel width = 2400mm.

#### SPANS: SLIDETEC GLASS SPANS | OUTER FRAME OVERALL MEASUREMENT



FLUSH TRACK

Anaximum Opening

Glass Span + 140

Glass Span + 240

Glass Span + 240

Class Span + 240

Class Span + 240

Class Span + 240

NTS

Drawn By	Viridian-DY
Scale	1:3 @ A4
Date	Feb 2025

 $\label{lower} \mbox{LouvreTec}_{\mbox{\tiny FM}} \mbox{ New Zealand Ltd} \\ \mbox{All dimensions in mm unless stated otherwise}$ 



### PRODUCER STATEMENT PS1: SLIDETEC FRAMELESS GLASS SLIDING DOORS SYSTEM







PS1 no: (By Viridian) CPEng 1163388 Auckland Council Author Number: 124000 SBGC Author Number: PSA/2020/14

Building Code Clause(s)......B1, F2

# **PRODUCER STATEMENT - PS1 - DESIGN**

ISSUED BY: Viridian Glass Ltd Partnership	
(Design Firm)  TO: LouvreTec NZ	
(Owner/Developer)	
TO BE SUPPLIED TO: ### Council	
(Building Consent Authority)  IN RESPECT OF: Maximum Viridian Toughened Safety Glass Spans for SlideTec Sliding Panel System.  (Description of Building Work)	
AT: ###	
(Address)	
Town/City: ### LOT DP SO	
We have been engaged by the owner/developer referred to above to provide:	
Design services with respect to maximum Viridian Toughened Safety Glass spans for SlideTec Sliding Panel System.  This PS1 excludes the design of all supporting structure and substrate beyond the immediate fixings which must be designed by oth Building Code and AS/NZS 1170.	hers to NZ
(Extent of Engagement)	
services in respect of the requirements of Clause(s). B1, F2	
All or Part only (as specified in the attachment to this statement), of the proposed building work.	
The design carried out by us has been prepared in accordance with:	
Compliance Documents issued by the Ministry of Business, Innovation & Employment. B1/VM1/AS1 F2/AS1 (verification method/acceptable solu	or ution)
Alternative solution as per the attached schedule	
The proposed building work covered by this producer statement is described on the drawings titled:	
Refer attached drawings and numbered Refer attached drawings together with the specification, and other documents set out in the schedule attached to this statement.	;
On behalf of the Design Firm, and subject to: (i) Site verification of the following design assumptions (ii) All proprietors products meeting their performance analytication requirements:	
(ii) All proprietary products meeting their performance specification requirements;	
I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code a the persons who have undertaken the design have the necessary competency to do so. I also recommend the following construction monitoring/observation:	ind that b), ng level of
CM1 CM2 CM3 CM4 CM5 (Engineering Categories) or ■ as per agreement with owner/developer/Archite	ect
I, Woo Ching, Yong (Dominic) am: CPEng 1163388	
(Name of Design Professional) I am a member of: ☐ Engineering New Zealand and hold the following qualifications: BEng. (Hons.), .Mst.Eng	
The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200. The Design Firm is a member of ACE New Zealand:	
SIGNED BY Woo Ching, Yong (Dominic) (Signature)	
ON BEHALF OF Viridian Glass Ltd Partnership Date Feb 202  (Design Firm)	25
Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrue. Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of	the Building

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACE NEW ZEALAND AND ENGINEERING NEW ZEALAND

PRODUCER STATEMENT PS1 February 2020 (PDF) 1



#### **GUIDANCE ON USE OF PRODUCER STATEMENTS**

Producer statements were first introduced with the Building Act 1991. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects, Institution of Professional engineers New Zealand (now Engineering New Zealand), ACE New Zealand in consultation with the Building Officials Institute of New Zealand. The original suit of producer statements has been revised at the date of this form as a result of enactment of the Building Act (2004) by these organisations to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with reasonable grounds for the issue of a Building Consent or a Code Compliance Certificate, without having to duplicate design or construction checking undertaken by others.

**PS1 Design** Intended for use by a suitably qualified independent design professional in circumstances where the BCA accepts a producer statement for establishing reasonable grounds to issue a Building Consent;

**PS2 Design Review** Intended for use by a suitably qualified independent design professional where the BCA accepts an independent design professional's review as the basis for establishing reasonable grounds to issue a Building Consent:

**PS3 Construction** Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:2013 or Schedules E1/E2 of NZIA's SCC 2011<sup>2</sup>

**PS4 Construction Review** Intended for use by a suitably qualified independent design professional who undertakes construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACE New Zealand and Engineering New Zealand to interpret the Producer Statement.

#### Competence of Design Professional

This statement is made by a Design Firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the firm and competence of its designers.

A competent design professional will have a professional qualification and proven current competence through registration on a national competence based register as a Chartered Professional Engineer (CPEng).

Membership of a professional body, such as Engineering New Zealand (formerly IPENZ) provides additional assurance of the designer's standing within the profession. If the design firm is a member of ACE New Zealand, this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent design professional".

#### \*Professional Indemnity Insurance

As part of membership requirements, ACE New Zealand requires all member firms to hold Professional Indemnity Insurance to a minimum level.

The PI Insurance minimum stated on the front of this form reflects standard, small projects. If the parties deem this inappropriate for large projects the minimum may be up to \$500,000.

#### **Professional Services during Construction Phase**

There are several levels of service which a Design Firm may provide during the construction phase of a project (CM1-CM5 for Engineers<sup>3</sup>). The Building Consent Authority is encouraged to require that the service to be provided by the Design Firm is appropriate for the project concerned.

#### Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design firm's engagement.

#### **Attached Particulars**

Attached particulars referred to in this producer statement refer to supplementary information appended to the producer statement.

### Refer Also:

- Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- NZIA Standard Conditions of Contract SCC 2011

Guideline on the Briefing & Engagement for Consulting Engineering Services (ACE New Zealand/Engineering New Zealand 2004)

4 PN Guidelines on Producer Statements

www.acenz.org.nz www.engineeringnz.org





PRODUCER STATEMENT PS1 2 February 2020 (PDF)



Viridian Glass

15 Waiouru Road, East Tāmaki. Auckland 2013 M +64 27 880 2391 E dyong@viridianglass.net.nz

# Re: Clause B2 Statement for Viridian Glass System -:

We are unable to provide a Producer Statement for Clause "B2 - Durability" of the Building Code because the Ministry of Business Innovation and Employment compliance documents do not contain an effective verification method.

However, for the specific designed structural elements in Viridian Glass Producer Statement PS1, we can confirm the following:

When glass is installed in accordance with NZS 4223 and installation instructions, it will meet the durability requirements of Table 1 Acceptable Solution B2/AS1.

To ensure the durability of the system, the care and maintenance requirements included in the Viridian Glass product manual must be met. Please refer attached documents.

Yours sincerely,

Dominic York CPEng 1163388

T 0800 847 434 | F 64 9 573 0389 15 Waiouru Rd, Highbrook, Auckland 2013 www.viridianglass.co.nz



#### CARE AND MAINTENANCE OF GLASS



#### Viridian Glass

15 Waiouru Road,
East Tāmaki,
Auckland 2013
M +64 27 880 2391
E dyong@viridianglass.net.nz

#### To Whom It May Concern

#### **Construction Monitoring**

The design is based on the verification of construction specified in the PS1 by a suitably qualified professional.

Inspection shall include at least the following:

- The glass type, thickness and dimensions are as provided by the PS1, and are supplied by Viridian Glass.
- The permanent glass markings are visible after installation, and meet the requirements of NZS 4223.
- The hardware and fixings are supplied and installed at the specified centres as per the PS1.
- Substitution of glass or hardware is not allowed.
- The supporting structures has been engineered by a suitably qualified design professional to support design loads from the glass. This is not responsibility of Viridian Glass

We note additional inspections will be required as part of the Council's normal inspection regime.

Yours sincerely,

lang.

Technical Manager
CPEng | CMEngNZ | Mst.Eng

T 0800 847 434 | F 64 9 573 0389 15 Waiouru Rd, Highbrook, Auckland 2013 www.viridianglass.co.nz



#### CARE AND MAINTENANCE

To ensure the long-term durability of glass, regular washing and drying are necessary. In urban areas, it is recommended to wash them every three to six months. The following guidelines should be followed:

- a. When washing, soak the glass surface with a mild soap detergent solution, warm water, or proprietary glass cleaners to loosen dirt and debris.
- b. Use a soft, grit-free cloth or sponge to wash the glass and avoid washing in direct sunlight. Do not use scrapers or razor blades.
- c. After washing, rinse the glass with clean water and dry it using a clean, grit-free squeegee, cloth, or paper towel. Remember that wet glass can be dirty.
- d. Ensure that all water and cleaning solution residue is dried from the gaskets, sealants, and frames to prevent water spots.

- e. Avoid cleaning tinted and reflective glass surfaces in direct sunlight.
- f. For laminated glass, use the same washing procedures as above, but be careful not to allow solvents to come into contact with the edge laminate interlayer.
- g. It is recommended to check that hardware drainage is not blocked, as this can affect laminated glass.





OVERHEAD RECTANGULAR PANELS



OVERHEAD RAKING PANEL



FULL HEIGHT FIXED PANEL

# 2. SLIDETEC FIXED PANELS GLAZING SYSTEM

Fixed glass panels to compliment Slidetec Doors & Windows

Slidetec Fixed Panels are designed to compliment the Slidetec Sliding Door & Window system.

# Two typical applications

# 1. Fixed overhead panels

If the sliding panel is over height and exceeds design limitations, a suitably sized fixed overhead panel can be fitted.

Fixed overhead panels can also be used on pitched roof frames to square up the opening to allow for a sliding panel to be installed under.

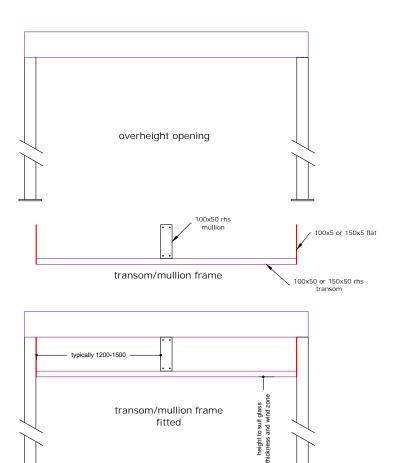
# 2. Full height fixed panels

Ideal to use to provide light and shelter as a full height fixed panel when sliding access is not required.

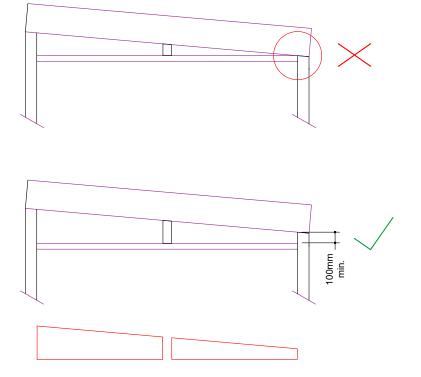
# TYPICAL DETAILS: OVERHEAD RECTANGULAR & RAKING PANELS

### PANEL DETAILS

Top fixed panels to reduce the height of an over height opening.



## **RAKING FIXED PANELS**





# TWO FIXING SYSTEMS

# 1. Flush Fit fixed option

This simple 'traditional' system has the advantage of minimal clean lines and hidden fixings.

Designed with pocket fit flush within existing openings.

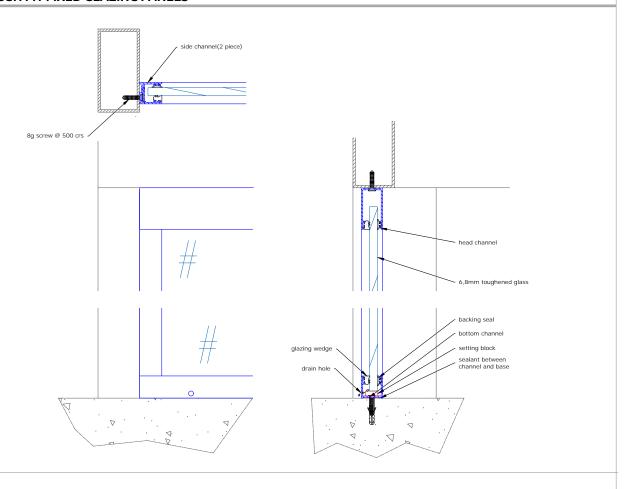


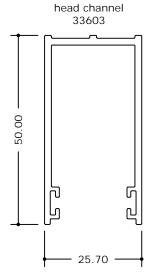
OVERHEAD RAKING PANELS

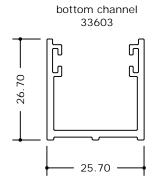


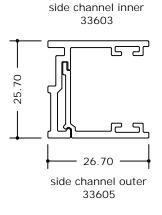
FIXED GLAZING PANELS

# TYPICAL DETAIL: SLIDETEC FLUSH FIT FIXED GLAZING PANELS















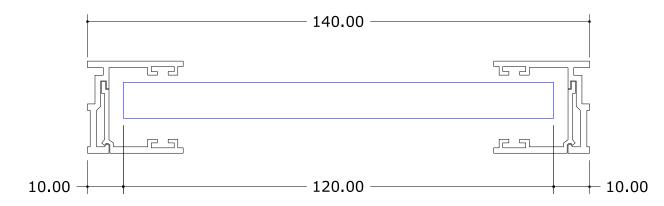
Suitable for 6mm or 8mm toughened glass for Fixed Panels.

glazing wedge

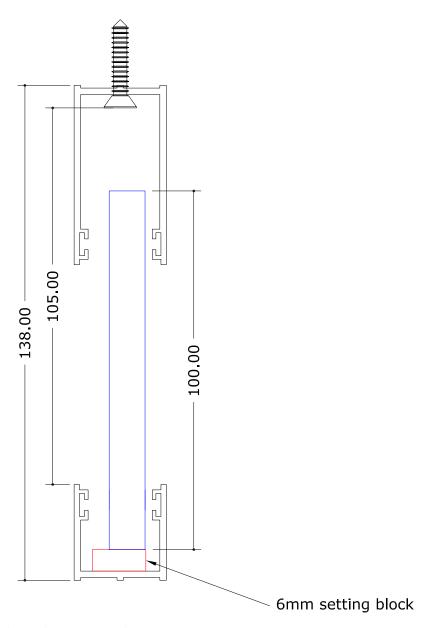
backing seal setting block



#### **GLASS DEDUCTIONS**



CROSS SECTION WIDTH - GLASS WIDTH = OVERALL WIDTH -20MM



CROSS SECTION HEIGHT - GLASS HEIGHT = OVERALL HEIGHT -38MM

SCALE: DATE MODIFIED: 01/10/2024 FILE: SLIDETEC 5.35

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# TWO FIXING SYSTEMS

# 2. Face Fixed option

This system is based on typical aluminium joinery design, incorporating a facing to all four sides of the outer frame.

In contrast to the Flush Fixed option, this section incorporates a flange to the outer frame enabling the glass panel to be fixed directly through the flange to the face of the opening.

A glazing channel clip provides cover to hide the fixings.

The flange may be ripped smaller at the glazing channel rip line.



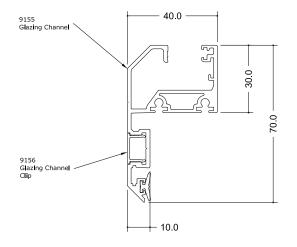
**OVERHEAD RECTANGULAR PANELS** 

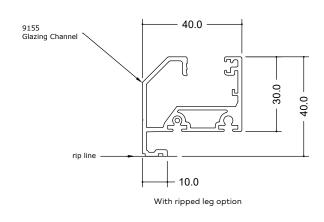


OVERHEAD RAKING PANELS

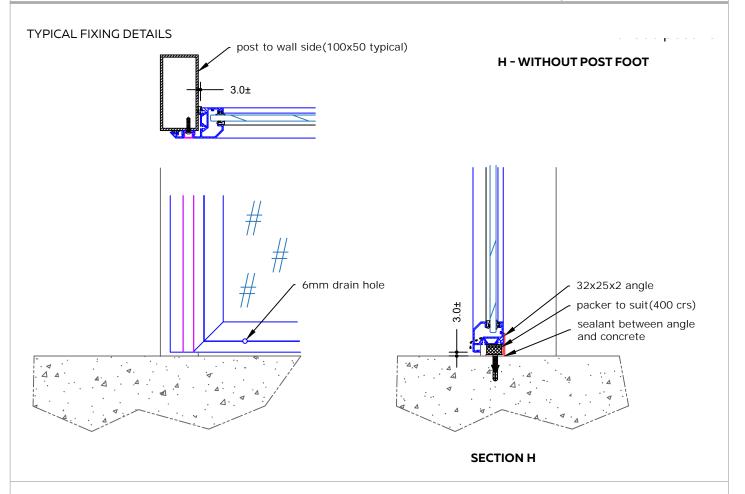


FIXED GLAZING PANELS

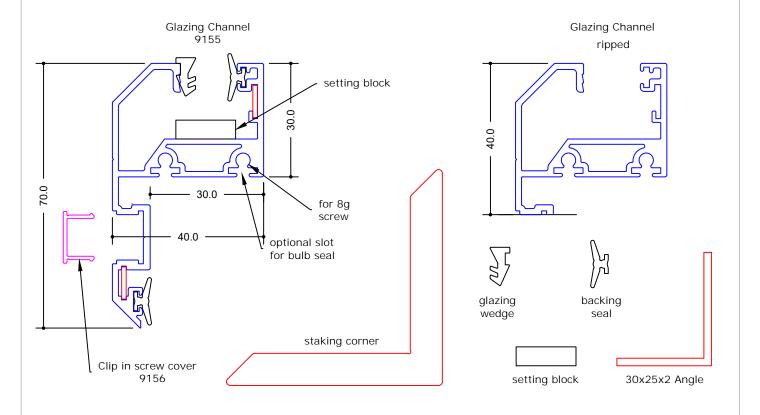




# TYPICAL DETAIL: SLIDETEC FACE FIXED, FIXED GLAZING PANELS



#### **COMPONENTS**

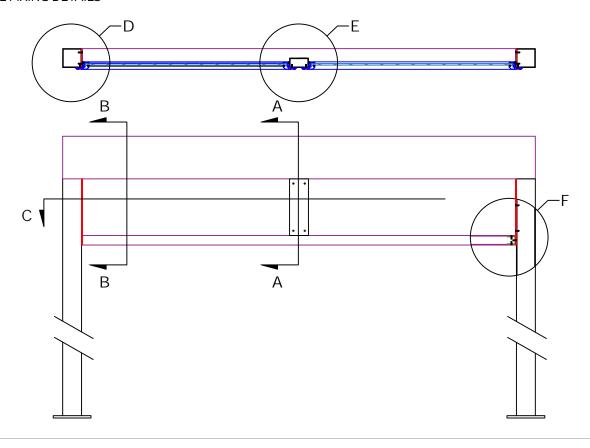


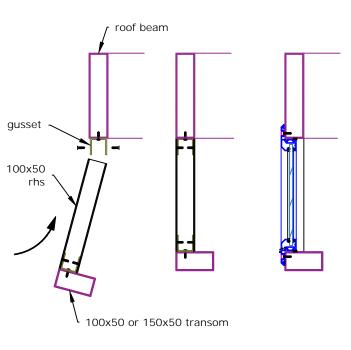
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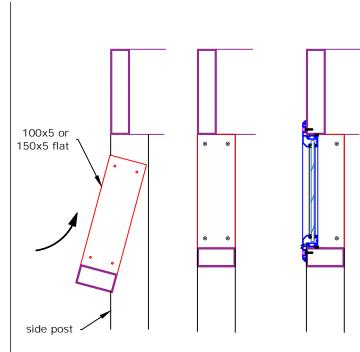
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### TYPICAL FIXING DETAILS



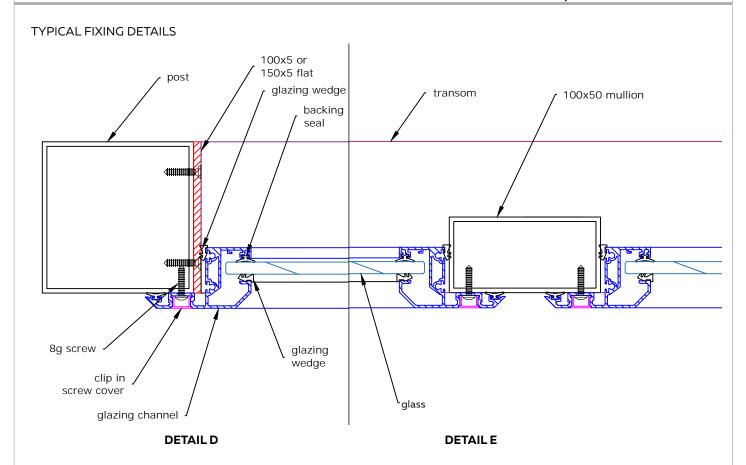


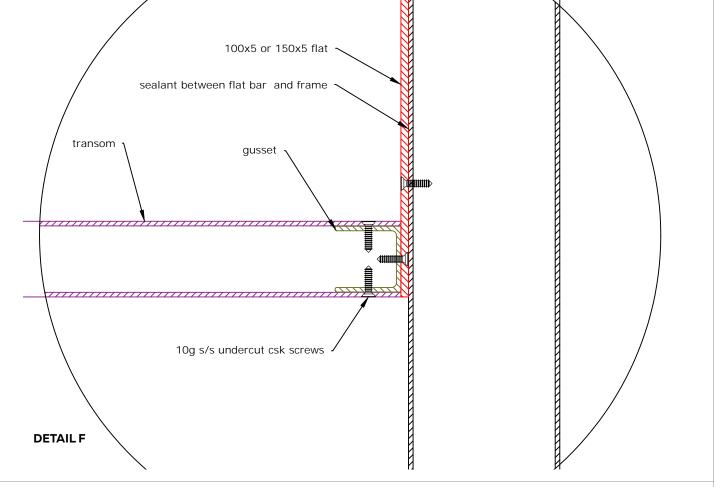


**SECTION A: MULLION FIXING** 

**SECTION B: TRANSOM FIXING AT SIDES** 

# TYPICAL DETAIL: SLIDETEC FACE FIXED, FIXED GLAZING PANELS





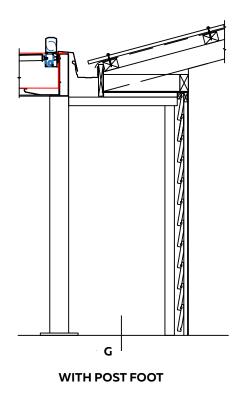
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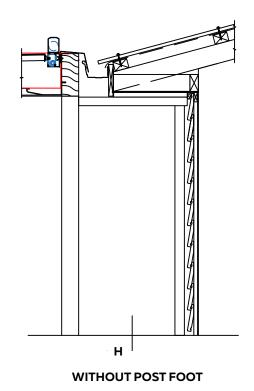
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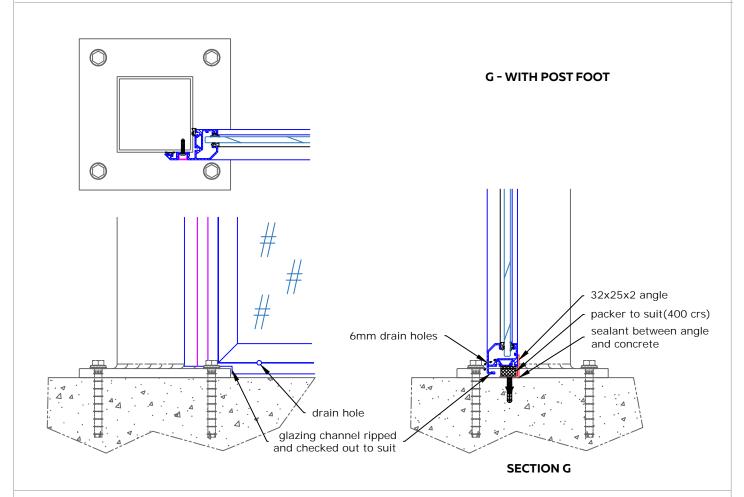


# TYPICAL DETAIL: SLIDETEC FACE FIXED, FIXED GLAZING PANELS

### TYPICAL FULL HEIGHT FIXED PANELS







### LOUVRETEC PRODUCT WARRANTY

#### SLIDETEC FRAMELESS GLASS SLIDING DOORS & PANELS

#### 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 PRODUCT WARRANTY



### SLIDETEC FRAMELESS GLASS SLIDING DOORS & PANELS

warranty details	All product installed by Louvretec (excluding glass*) or an Authorised Louvretec Installer, is from date of invoice, fully warranted for the first two years. This warranty covers workmanship, all componentry (except glass*) with all labour costs included.
product materials	All aluminium extrusions used in Louvretec's systems are manufactured in an ISO9002 quality assured environment to ASI866 & 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 anosided material will retain its original integrity for no less than 10 years.
fully engineered	Our 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:
cicaimig	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.
	4 Dry glass using a clean grit-free squeegee, cloth or paper towel
glass*	The glass chosen for your Slidetec system is fit for all purposes for which they are commonly supplied and are acceptable in appearance and finish to the standard referred to in AS/NZS 4667 and are safe and durable to the standard referred to in NZS 4223
	Warranty effective from/
effective from	Louvretec Representative Print name

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Gallery and Overview 6.02 - 6.06

Overview and options 6.07 - 6.12

Product Warranty 6.13 - 6.16





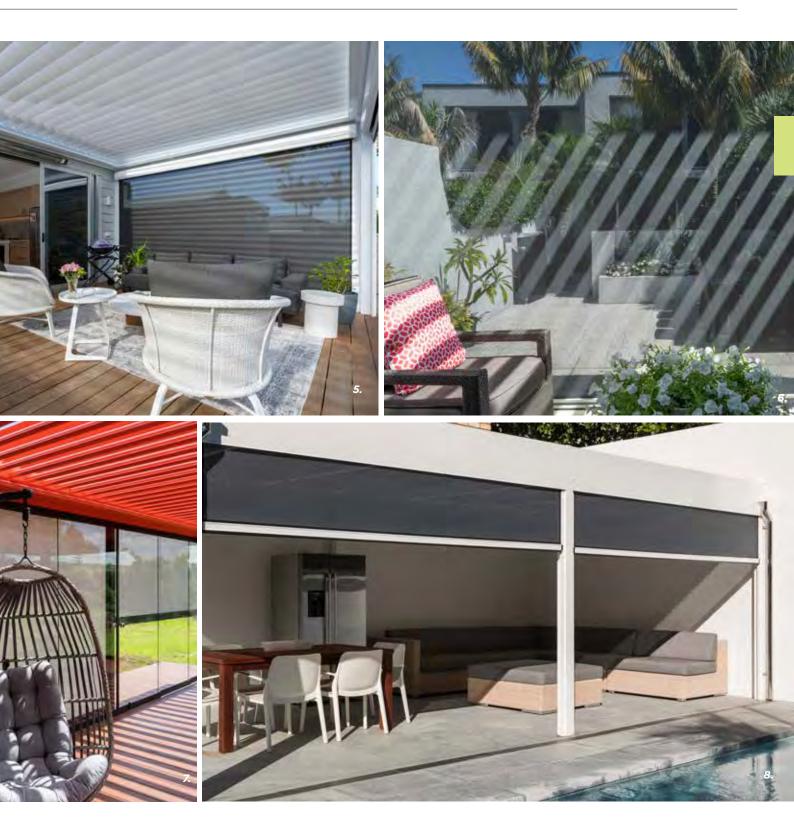
# GALLERY OUTDOOR BLINDS













MOTORISED OUTDOOR BLINDS - PART OF A LOUVRETEC OUTDOOR ROOM. EACH BLIND SPANNING 5.4 METRES



MT EDEN, AUCKLAND



RED BEACH, AUCKLAND

# **OUTDOOR BLINDS**

# External screening options

Outdoor Blinds are a popular option when considering closing in a Louvretec Room or outdoor space.

Louvretec does not offer a proprietary 'Louvretec branded' Outdoor Blind. There are many excellent brands of Outdoor Blinds available, giving Louvretec Dealers a wide range of product options best suited to compliment a Louvretec installation. The best of both worlds.

#### Custom made

All Outdoor Blinds destined to fit within a Louvretec installation are individually site measured and custom made accordingly.

Many Louvretec Dealers carry mill finish stocks & manufacture the Outdoor Blinds themselves with others receiving kits from their local Outdoor Blind supplier.



LOUVRETEC ROOM (OPPOSITE PAGE) AS VIEWED FROM INSIDE MT EDEN, AUCKLAND

# **OPTIONS & FEATURES**

- Outdoor Blinds provide great protection during every season, protecting from UV, wind, rain and dust.
- Outdoor Blinds are custom made to exact measures ensuring a perfect fit.
- Easy to operate, lightweight spring-loaded Outdoor Blinds are easy to push up or pull down. Let the blind go and it will stay in the chosen position.
- All Mesh Outdoor Blinds can be motorised. The same Louvretec remote control that operates your Opening Roof also operates your Outdoor Blinds.
- Most Outdoor Blinds incorporate a centrally mounted locking mechanism in the handle allowing the blinds to be locked when fully down.
- · 'Ziptrack' style systems fit snug between the side frame and the skin. This provides a no rattle fit.
- · Modern, heavy duty option Outdoor Blinds with mesh infills can now span up to 5.8m wide.
- Your Louvretec Dealer will advise how best to integrate the Outdoor Blind seamlessly into the Louvretec installation.
   Powder coat colour of your choice.



PROTECTION DURING EVERY SEASON



MOTORISED MESH SHADE BLINDS & OPENING ROOF



CHOOSE FROM A RANGE OF MESH DENSITY LEVELS OF 'OPEN-NESS'

#### MOTORISED OR HAND OPERATED

Controller and Sensor Options Refer Section 1 for range of options



# SPRING ASSIST

Outdoor Blind will stay in chosen position.

PULL DOWN | PUSH UP

# SURFACE FINISHING OPTIONS

A wide range of options are available.







A LARGE RANGE OF MESH DENSITY OPTIONS IS AVAILABLE

# THE OUTDOOR BLIND INFILL OR SKIN:

#### Mesh Outdoor Blinds

By far the majority of Outdoor Blinds in residential installations choose Mesh skins.

- There is an ever increasing range of superb fiberglass based skin options available.
- Choose from a wide range of colours. Warranties differ between manufacturers - enquire when ordering.
- $\cdot$  Choose from a wide range of mesh density options providing up to 99% UV block and 96% wind block.
- Outdoor Blinds over 3500mm width (depending on wind zone) must have mesh skins.
- Mesh Outdoor Blinds can span up to and in some cases over 6000mm depending on wind zone.
- · Only Mesh Outdoor Blinds can be motorised.





CLEAR PVC BLIND

#### OR PVC

#### **PVC Outdoor Blinds**

- Louvretec supplied PVC Outdoor Blinds carry a one year workmanship and product warranty excluding the PVC skins.
- PVC skins provide for maximum views and rain protection, however due to the unstable nature of PVC there is no manufacturers warranty available for the PVC skin itself.
- · PVC Blinds cannot be motorised.
- PVC Blinds can span up to a maximum of 3500m depending on wind zone.
- PVC Blinds can react adversely to both heat and cold.
   Please discuss further with your Louvretec Dealer.

# KEY OPTIONS & FEATURES AT A GLANCE

#### Moveable Walls:

- · Outdoor Blinds are a perfect fit with a Louvretec Room.
- With an Opening or fully Retractale Roof overhead, vertically retractable walls further enhance the total indoor/outdoor experience.

#### Weather Protection when you need it:

- · Sealed Mesh & Clear PVC outdoor blinds can be customed to provide the level of weather protection you require.
- · Protect your space from wind, rain, glare and cold weather

#### Environmentally Friendly:

- · Protection from heat and UV in summer
- Helping to close in and capture warmth in winter enjoy outdoor living all year round.

#### Easy to Operate:

- Mesh blinds only can be motorized, as well as hand operable simple individual or group control at the touch of a button.
- · Clear PVC blinds are only offered as hand operable
- Hand operated push up / pull down is made easy with the use of an internally mounted spring balanced assist system.
- · Lightweight and simple to use, the blind will stay firm in the designated position without rattling in the wind.









# KEY OPTIONS & FEATURES AT A GLANCE

#### Recommended Maximum Spans:

- The inclusion of extra heavy-duty bottom rails has enhanced achieveable spans.
- Mesh blinds up to 3500mm high can span up to, and in some cases over 5800mm depending on wind zones.
- Clear PVC blinds up to 3500mm high are recommended to span no more than 3500mm.
- · Openings exceeding the above require either a fixed or removable mid-post.

#### Pelmets for Louvretec Blinds:

- · Unless stated otherwise by your Louvretec Dealer full aluminium pelmets are standard for all Mesh blinds.
- A half pelmet only, protecting the outside of the roll is recommended for Clear PVC blinds.

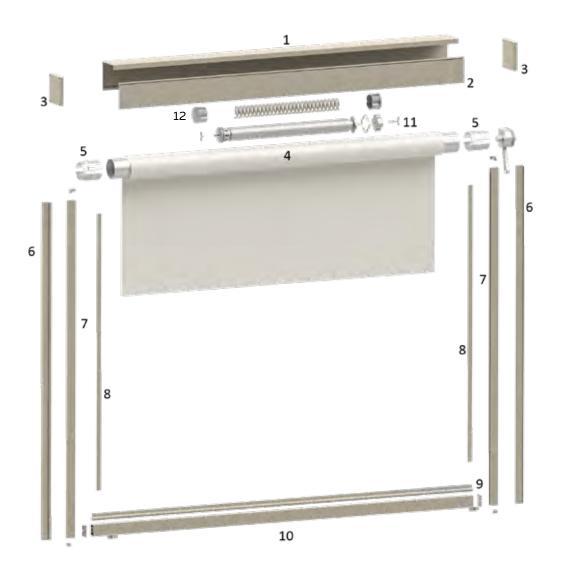
#### Colour Options:

 A full range of powder coat colours ensure the perfect match for stand-alone or Louvretec Room installations

#### Sunscreen Mesh:

- Is available in a wide range of colours and transparencies
- · Up to 99% UV block
- · Up to 96% wind block
- $\cdot\;$  Allows airflow and reduces sun glare
- $\,\cdot\,\,$  Easy to maintain, extremely durable and provides high degree of privacy during the day

#### TYPICAL DETAIL: MESH OR CLEAR PVC OUTDOOR BLINDS



#### Index

- 1. Rear headbox
- Front headbox (Mesh blinds only cannot be used on PVC Blinds)
- 3. End caps
- 4. Axle tube
- 5. Axle tube reducer
- 6. Outer side channel
- 7. Zip inner rail
- 8. Zip on blind skin
- 9. Bottom spline
- 10. Bottom rail
- 11. Motor option
- 12. Spring assist

#### Outdoor Blinds Size guidelines

#### MESH

Width up to 5800mm

Height up to 3500mm

#### PVC

Width up to 3500mm

Height up to 3000mm

#### **HEADBOX**

Sizes vary from 110m to 130m square

Typical Outdoor Blind showing motor, crank, or hand operable (spring assist) option



#### LOUVRETEC PRODUCT WARRANTY

#### OUTDOOR BLINDS

#### The Louvretec range of products:

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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 PRODUCT WARRANTY outdoor blinds All outdoor blinds installed by Louvretec , or an Authorised Louvretec Installer, is from date of invoice, fully warranted for the first year. Mesh blind skins are also covered by a five year manufacturer's warranty. Due to the unstable nature of PVC, there is no warranty manufacturer's warranty available on the PVC skin itself. This warranty covers workmanship, details 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). Louvretec exclusively uses Somfy motors. Somfy offers a 5 year warranty on all motors and electronics. Please contact your Louvreted motorisation Dealer or Somfy for a complete list of all terms and conditions. All aluminium and extrusions used in Louvretec's systems are manufactured in an product ISO9002 quality assured environment to AS1866 & AS3902 standards. Marine grade materials T316 stainless steel is used for drive axles, with stainless steel componentry fixings being standard. Plastic injected moulded componentry is all UV stabilised. A wide range of exterior powder coat finishes are available. Duralloy or equivalent is the powdercoat standard finish supplied unless stated otherwise and provides excellent resistance to finishes weather and salt spray. This carries warranties of a maintainable service life of 25 years, film integrity of 10 years and colour integrity of 7 years. anodised The current specifications re anodised aluminium range from 12-20-25 microns depth. The greater the microns the better the protection. With regular finishes cleaning anosided material will retain its original integrity for no less than 10 years. fully Our systems are designed to conform to New Zealand and Australian standards wind loadings. Full engineering details available on request. engineered All blinds require regular cleaning and use to prolong their performance and to help prevent scratching and mould. A warm soapy water washdown is recommended using a cleaning car wash detergent. For the Louvretec Ziptrak system, the side guide channels and fabric in the side guide channel should be sprayed with a food grade silicone spray like CRC 808every 3 months. To apply the lubricant, lower your blind all the way down and apply the silicone spray in the groove between the spline tape and the track, one on each side of the skin. Vuplex or Plexus sprays can be used to rejuvenate your clear PVC screen and reduce the accumulation of dust and other dirt. product description Louvrecare is a planned preventative maintenance and valet service designed to keep your Louvretec louvrecare LouvreCare 7 product clean and in good working order. Contact your Louvretec Dealer for full details. Warranty effective from \_\_\_\_ effective from Louvretec Representative \_ \_ Print name \_ Site Adddress LOUVRETEC NZ LTD Head office: 23c Douglas Alexander Parade, Albany 0632, Auckland New Zealand T+64 9 415 4949 E info@louvretec.co.nz www.louvretec.com

#### LOUVRETEC PRODUCT WARRANTY

#### OUTDOOD BLINDS



#### GENERAL INFORMATION AND MAINTENANCE

Louvretec Outdoor Blinds come with a wide range of options. These options determine both the aesthetics and functionality of the blinds. Please take a moment to familiarise yourself with the following:

#### options

There are two Outdoor Blind options, both with differing features and benefits: Mesh Blinds - for privacy & airflow. These Blinds are typically a composition pvc/polyester mesh, available in a range of colours with varying degrees of openness. PVC Blinds - for weather protection. PVC Blinds can be clear or tinted. Coloured PVC provides full privacy.

## operating systems

Hand operated - Blinds are pulled down or pushed up by a spring assisted axle. Manual Gearbox - Blinds are operated by a gearbox and crank handle.

 $Motorised-Blinds\ are\ operated\ by\ a\ Somfy\ Tubular\ motor\ fitted\ within\ the\ axle,\ with\ hand\ held\ remote\ controls\ as\ standard.\ Note-it\ is\ not\ recommended\ to\ motorise\ PVC\ blinds.$ 

#### design choices & additional warranty info

- · There is a wide range of Mesh fabrics and colours available
- PVC is available clear or tinted.
- Mesh fabrics vary with the percentage of openness and are best selected according to desired levels of privacy and wind protection.
- A full range of powdercoat colours are available for frame and headbox.
- Headboxes or pelmets are additional with Mesh blinds. They are not supplied with PVC blinds due to the potential, when retracted on hot days, to bunch and wrinkle around the axle.
- All Louvretec Outdoor Blinds carry a 1 year workmanship and installation warranty.
- Mesh blinds skins are also covered by a five year manufacturer's warranty.
- Due to the unstable nature of PVC there is no manufacturer's warranty available for the PVC skin itself.

## general information

LOUVRETEC OUTDOOR
BLINDS ARE COVERED
BY A ONE YEAR
WORKMANSHIP

+ INSTALLATION WARRANT

SPARE PARTS AND REPAIRS ARE AVAILABLE FROM YOUR LOUVRETEC DEALERSHIP.

ONLY LOUVRETEC APPROVED PARTS ARE TO BE USED.

- In windy conditions, (winds greater than 30km/h) your Outdoor Blinds should be fully retracted all the way up. Moving blinds in windy conditions can be difficult. Wait for a break in the wind, then move your blinds, pushing on the skin with your hand against the wind - in order to free it between the tracks.
- If you're going away, retract the blind up to the top position (fully retracted) to keep it safe in the event of bad weather.
- All blinds require regular cleaning and use to prolong their performance and to help prevent scratching and mould. Use warm soapy water & wash down using household grade mild detergent.
- For the Louvretec Ziptrack system, the fabric and side guide channels should be sprayed with a food grade silicone spray like CRC 808 every 3 months. To apply the lubricant, lower your blind all the way down, and apply the silicone spray in the groove between the spline tape and the track, on each side of the skin.
- For our Ziptrack system, manual hand operated blinds should be operated from the CENTRE of the bottom rail, for even rolling of the blind's skin on the top tube. Motorised blinds should be supervised while in motion.
- · Sagging as a result of the blinds own weight will occur. This is not a fault in the system and is unavoidable.
- · Once a week fully extend your blind to even out the fabric and let it breathe. Leave it down all day to let it retain its shape.

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#### LOUVRETEC PRODUCT WARRANTY

#### OUTDOOD BUINDS



summary of standard maintenance required by owner

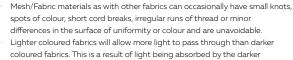
- Visually check the state of the fabric at least twice a year in the spring before summer use and in the autumn before winter.
- Make sure the fabric is clean and that there is no mould caused by dust or other materials before the summer.
- Lubricate the moving parts with silicone lubricant every 3-6 months.
- Clean the fabric, if required, using a damp sponge or cloth soaked in warm water and mild car wash detergent. Allow fabric to dry before retracting.
- DO NOT use solvents, ammonia or hydrocarbons.
- DO NOT use alkaline products on PVC fabrics as they cause opaqueness and decrease transparency.

#### **PVC Blinds**

- PVC will expand and shrink depending on ambient temperatures. When warm, the PVC is soft and pliable. When cold the blind will tighten up and the PVC will be less pliable. This may affect the ease of movement of the screen.
- · In hot weather, leave your blind down at night and operate it during the day to stop it burning on the tube.
- The PVC stiffness in cold weather is not a problem with a manually operated blind, but in a motorised blind, the weighted bottom rail cannot always overcome the PVC stiffness.
- Avoid rolling up your blind when it is wet. This will result in the clear PVC blind having a milky appearance (this should dissipate naturally when the screen is rolled down in warmer conditions and with sun-light), and accelerate the growth of mould or mildew on PVC blinds.
- VuPlex or Plexus Sprays can be used to rejuvenate your clear PVC screen and reduce the accumulation of dust and other dirt.
- · Crumpling or wrinkling will occur with PVC blinds, this is very normal due to it's volatile nature.

#### Mesh Blinds





coloured fabrics.

Fabric with a stripe or pattern may experience crumpling along the bands of colour. If there is a stripe or pattern on your fabric like the example below, specify to Louvretec how you want the pattern to run (vertical or horizontal)

as there is an aesthetic consideration to this.

- Given the high level of pollutants in our atmosphere which lead to acid rain, if the blind is installed near to road, air ducts, forest trees with risk of dripping resin and leaves, and even though they are treated with anti-mould, if they are not frequently cleaned the fabrics can be attacked by micro organisms which make it impossible to clean after.
- Cobweb effect can form when the fabric is being made up, especially in light colours these creases become darker marks, however they do not affect the quality of the blind.
- Waves can form near to the sewing and side edges due to the double thickness of the fabric.
- If the blind is exposed to continuous strong winds, it may show signs of wear, fraying and abrasion.
  - The above are not product defects and are not covered by the warranty.



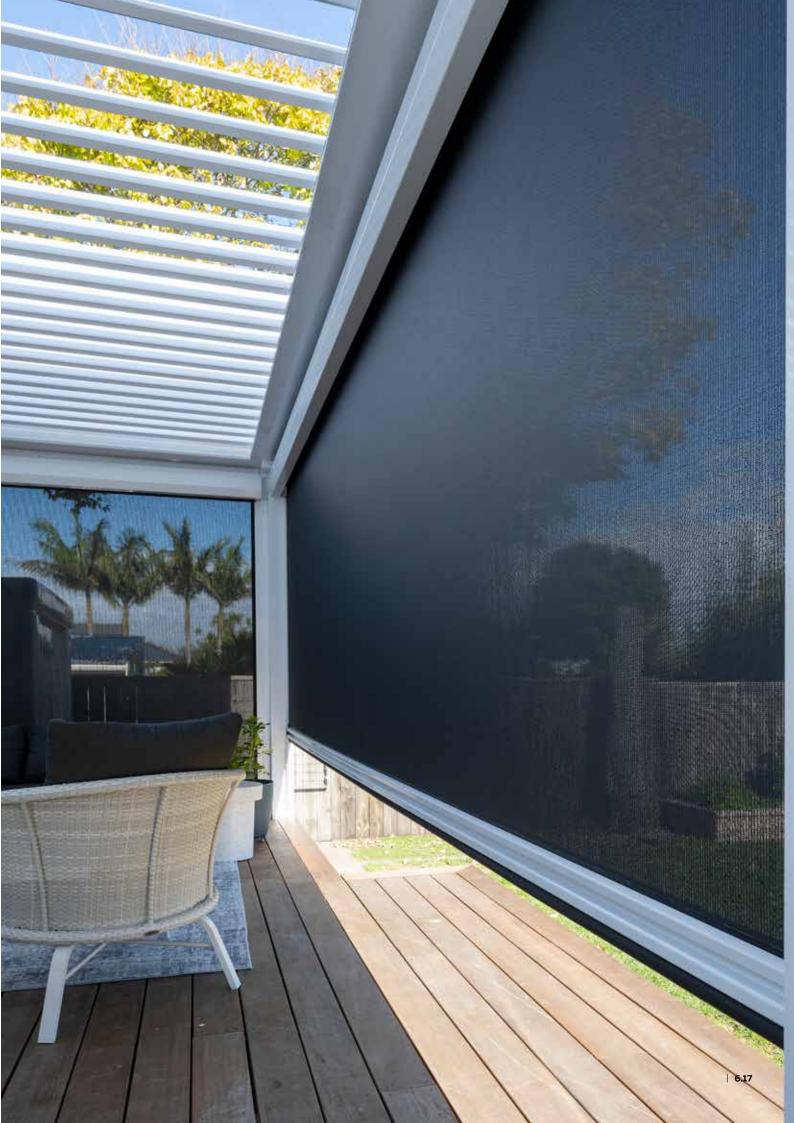
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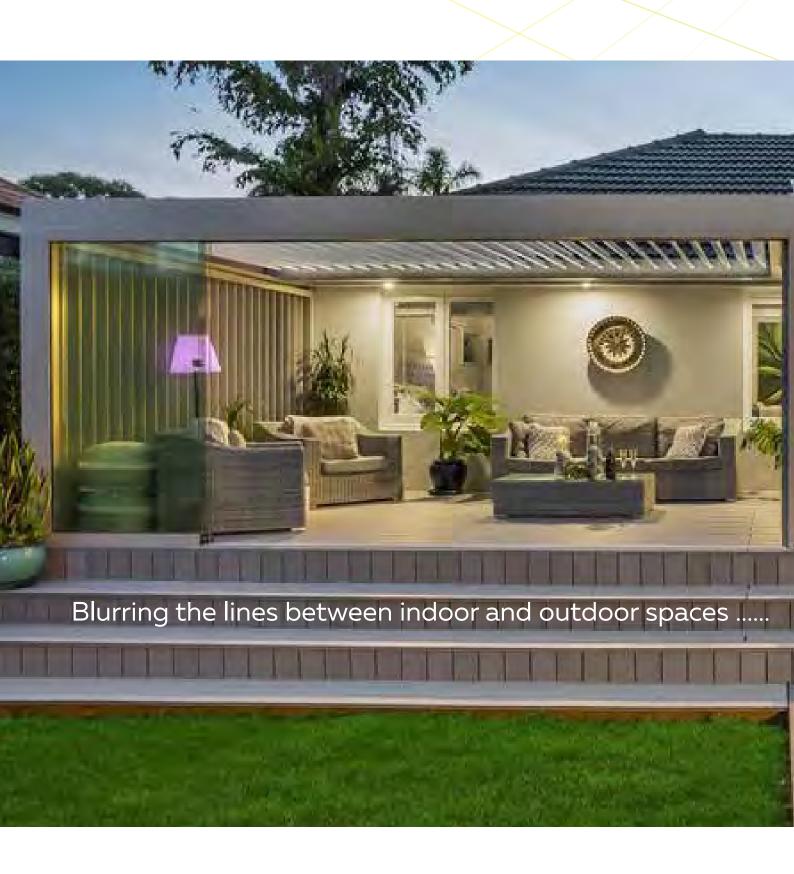


# the louvretec room



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#### THE LOUVRETEC ROOM GALLERY





















#### THE LOUVRETEC ROOM

"The heart of the home"

In modern architecture today everything has a flow to the oustide.....

Which is wonderful, however the outside is always changing and isn't always that hospitable.

A Louvretec Room genuinely gives you options to make the most out of whatever is going on outside all year round.

Roofs and walls can be opened, closed, retracted.....

Walls can be glass, mesh, louvres in many configurations - all of which can slide or raise should you so wish.

Lighting and heating can be added - all operable from a single hand held wireless remote controller

Be creative, have some fun, look and consider how this would work at your place.

#### **5 BASIC STEPS**

- 1. Decks: You will need a deck
- 2. Structural Frame: Add custom Louvretec engineered beams and posts
- 3. Opening Roof: Now you can choose between Opening only or fully Retractable
- 4. Infill Options: Choose from Slidetec Frameless Glass, Outdoor Blinds or Louvred Shutters
- 5. The finishing touches: Add Lighting or Heating to suit

Please turn over for an easy-to-follow step x step guide.



# DECKS: STRUCTURAL FRAME OPENING OR RETRACT ROOF





# INFILL OPTIONS | FINISHING TOUCHES





4.INFILL OPTIONS: SLIDETEC FRAMELESS GLASS SLIDERS



5.INFILL OPTIONS: OUTDOOR BLINDS



6.INFILL OPTIONS: LOUVRE SHUTTERS AND PANELS



7. FINISHING TOUCHES: LIGHTING AND HEATING

#### STEP 1 DECKING

Most Louvretec Dealers don't do decks (so make sure you check this first with your local Louvretec Dealer) - this is the only part of the five steps not undertaken by Louvretec. You may have an existing deck, or the deck may be part of your new home build.

Decks are typically timber or composite such as eco-deck or concrete with tiled finish. Deck construction is critical as it forms the foundation to support your Louvretec Room structure. For decks under construction, discuss layout and fixing options with Louvretec.

#### TIMBER DECKING



Make sure your deck complies with council requirements.

On existing decks additional structural support may be required. Posts can sit outside of deck or within deck structure with decking cut around post.

If the structural posts are fitting directly to the deck ensure there is adequate solid timber fixing at post connection points. Alternatively extend the posts to ground level and fix to a suitably engineered concrete pad.

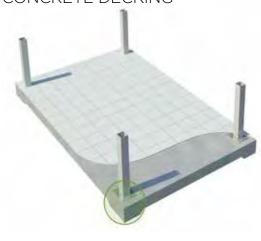


POSTS SITTING DIRECTLY ON TO DECK



POSTS PROJECTED THROUGH DECK ON TO CONCRETE PAD

#### CONCRETE DECKING



A typical 100mm concreted reinforced patio requires a concrete foundation under the post fixing points. Tiles or decorative surfaces can be laid to cover the base plate.



FIXING TO CONCRETE



#### STEP 2 THE LOUVRETEC STRUCTURAL FRAME

- · Louvretec offers a fully engineered structural aluminium frame system specifically designed for Outdoor Rooms.
- $\cdot\;$  Beams & 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. They are also designed to incorporate wall in-fills such as outdoor blinds, frameless sliding glass doors
  as well as a range of louvre panel infills.



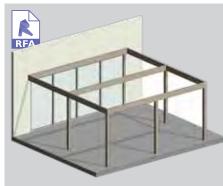
#### TYPICAL FRAME LAYOUTS



SIMPLY SUPPORTED



LENGTH EXTENDED - CONTINUOUS SPAN



WIDTH EXTENDED

CONTACT YOUR NEAREST LOUVRETEC DEALER TO DISCUSS OPTIONS BEST SUITED FOR YOUR INSTALLATION



#### STEP 3 10F2 OPENING ROOF OPTION

#### Opening Roof

We have a range of six different Opening Roofs to choose from. Offering a range of design styles, blade sizes and even a Translucent choice. Factors such as wind zones, and blade spans must be considered, with bigger spans and higher wind speeds requiring heavy duty blades.

Refer to Section 13 for Engineering Reports covering not only choice of blade but also structural frame and post sizes. A visit to your nearest Louvretec showroom is strongly recommended to see the actual range of options before deciding

REFER SECTION 2 FOR FULL DETAILS



#### **OPENING ROOF OPTIONS**



180/30 SLIMLINE ROOF PGS 2.19 - 2.22



200/35 SLIMLINE ROOF PGS 2.23 - 2.26



220/35 SLIMLINE ROOF 220/45 ALPINE ROOF (RETRACT COMPATIBLE) (RETRACT COMPATIBLE) PGS 2.35 - 2.38 & PGS 2.27 - 2.30



PGS 2.31 - 2.34



200 SUBURBAN SUBURBAN SOLAR PG 2.14 PGS 2.39 - 2.42



270 TRANSLUCENT ROOF



#### STEP 3 2 OF 2 RETRACT ROOF OPTION

#### Retract Roof

Our new Somfy powered Retract Roof is also an option to consider. Blades can stack either all to one end or evenly to both ends giving clear open spaces above. Two new 220 Retract roof louvres have been designed that incorporates a number of innovative ideas.

Contact your Louvretec Dealer for full details. Truly putting another dimension into indoor/outdoor living

REFER SECTION 3 FOR FULL DETAILS



#### RETRACT ROOF OPTIONS





220/35 SLIMLINE ROOF

220/45 ALPINE ROOF



## STEP 4 10F3 SLIDETEC FRAMELESS GLASS SLIDING PANELS

#### Slidetec Frameless Glass Sliding Doors, Windows & Fixed Panels

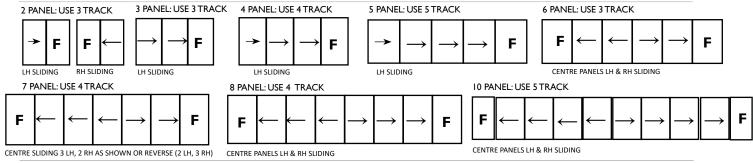
Slidetec has been designed, developed and manufactured by Louvretec specifically to meet the harsh demands of the Australian and NZ climate.

Frameless Glass sliding Doors and Windows are an ideal infill option for a Louvretec Outdoor Room, providing wonderful protection without compromising your view.

REFER SECTION 5 FOR FULL DETAILS



#### CHOOSE FROM A WIDE RANGE OF PANEL CONFIGURATIONS





#### STEP 4 2 OF 3 OUTDOOR BLINDS

#### **Outdoor Blinds**

Outdoor Blinds are a popular option when considering closing in a wall of a Louvretec Room.

Outdoor Blinds provide great protection during every season, protecting from UV, wind, rain and dust.

Easy to operate, either pull down/push up, or motorised, speak to your local Louvretec Dealer regarding the best custom-made option for your installation.

REFER SECTION 6 FOR FULL DETAILS



#### A LARGE RANGE OF MESH DENSITY AND MESH COLOUR OPTIONS ARE AVAILABLE





#### STEP 4 3 OF 3 LOUVRE SHUTTERS

#### Louvre Shutters

Louvretec has a wide range of Operable and Fixed Shutters available, ideally suited for closing in Outdoor Room walls.

There is a range of Airfoil and Rectangular shaped louvre blades, ranging from 90mm to 150mm that fit within Fixed panels, Sliding or Bi-Folding panels.

Larger Fixed, Hand Operated or Motorised louvres ranging from 120mm to 200mm can also be incorporated into half or full walls providing aesthetically pleasing fit for purpose design options.

REFER SECTIONS 10 & 12 FOR FULL DETAILS



#### CHOOSE FROM A RANGE OF SLIDING / BIFOLDING LOUVRED DOORS OR WINDOWS





#### STEP 5 10F2 LIGHTING

#### Lighting

Louvretec has developed the Light-tec custom range of premium lighting options, specifically to enhance a Louvretec Room, but equally as well suited for any Louvretec installation. Choose from three Light-tec options:

- 1. Continuous LED Pure Flow strip lighting to inside face of gutter. This popular option shines diffused light to the underside of the louvre blade.
- 2. Continuous LED Neon strip lighting to the front face of gutter. The ultra slim strip sits flush with the front face of the lighting clip providing seamless, continuous lighting to the inside of the Louvretec Room.
- 3. Underframe downlights

Discuss options that can be custom fitted to your Outdoor Room with your Louvretec Dealer. REFER SECTION 7 FOR FULL DETAILS



#### 3 SIMPLE LIGHTING OPTIONS







#### STEP 5 2 OF 2 FINISHING TOUCHES

#### Heating

Heaters are a popular addition to an Outdoor Room. There is a wide range of heater options suitable for outdoor use.

Most Louvretec Dealers offer a suitable heater option.

In NZ, Louvretec offer Bromic infrared electric heaters as part of our Outdoor Room Package.

**REFER SECTION 8 FOR FULL DETAILS** 



#### **BROMIC HEATERS**

- $\cdot$  Award winning design made of high quality stainless steel
- · Superior technology allowing the heater to spread radiant heat evenly across a large area creating ideal comfort
- · With a wide range of sizes available, find the ideal heater to suit your outdoor space
- · Black and white colours available
- $\cdot$  With a wide array of mounting options, Bromic offers solutions to compliment any decor and provide functionality for ambiance and comfort

#### 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



# DUVRETEC PRODUCT WARRANTY OPENING ROOFS - SUN LOUVRES - SHUTTERS All product installed by Louvretec (excluding Outoor 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

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

excluded. (Excludes any wiring and electrical connections done by others).

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 anosided material will retain its original integrity for no less than 10 years.

Our louvre systems are designed to conform to New Zealand and Australian

standards wind loadings. Full engineering details available on request.

fully engineered

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

cleaning

- 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

Site Adddress

LOUVRETEC NZ LTD

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T +64 9 415 4949

E info@louvretec.co.nz

www.louvretec.com







Gallery and Overview 10.02 - 10.05
Airfoil Sun Louvres - Spans 10.06
Rectangular Sun Louvres - Spans 10.07
RL Rectangular Sun Louvres - Spans 10.08

## Each Sun Louvre Application has their own section as follows:

Kiss Pivot System (Hand Operable Louvres) 10.1.01-10.1.13
Spiral Pivot System (Motorised & Hand Op.) 10.2.01-10.2.45
Maxi Drive (Motorised 300mm Maxi Louvre) 10.3.01-10.3.07
End Fixed Louvre System 10.4.01-10.4.49
Bracket Fixed Louvre System 10.5.01-10.5.43















STYLE & SUN CONTROL



OUTDOOR LIVING YEAR ROUND



LOUVRE CHIMNEY SURROUND, FIXED LOUVRE PANELS & COASTAL SHUTTERS FOR PRIVACY, STYLE & WEATHER PROTECTION

#### SUN LOURES OVERVIEW

#### Style with function

Sun Louvres form our most varied and versatile product range.

Many options

All Louvretec Sun Louvre systems have been beautifully designed to provide an unparalleled degree of choice. Their uses are many and varied including;

- · sun protection
- · shelter
- · privacy control
- · style giving a dramatic effect
- · for both Residential & Commercial projects

Available in an Airfoil or Rectangular shape with functionality choices

Due to the range of louvre blade sizes, three different types of motorisation or hand operable systems are available:

- 1. KISS Pivot system (Hand operable) Blades: 90mm to 150mm Section 10.1
- 2. Spiral Pivot system (Motorised) Blades: 120mm to 200mm Section 10.2
- **3. Maxi-Drive system (Motorised)** Blade: 300mm Section 10.3

Additionally, all Louvretec louvres can be:

- **4. End Fixed** Blades: All Section 10.4
- **5. Bracket Fixed** Blades: All Section 10.5

Plus, for a Retractable Louvre option refer to:

**Retract Sun Louvre system** - At time of printing this product is under design & development. See Section 11 & contact your local Louvretec Dealer for more info.

All options are fully engineered and certified for Residential and Commercial use.

Need more Sun Louvre systems/applications info? For specific information regarding louvre blade & application/system choice, please refer to one of the five Sun Louvre applications (listed above) in Sun Louvres Sections 10.1 to 10.5 of this Design Manual.

#### SUN LOUVRES AIRFOIL SPANS & INSTALLATION OPTIONS AT A GLANCE

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

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



LOW WIND SPEED LOW 115KM/H 32M/S 🧲

### AIRFOIL SUN LOUVRES

7 DIFFERENT STYLES	MAXIMUM SPANS	OPTIONS AVAILABLE
90 MIDI LOUVRE	1400MM HIGH 2000MM LOW	PIVOT PIXED STACKS
150 MIDI LOUVRE	1900MM FISH LOW	SOIRAL END END SINCERAL PLANED
120 AIRFOIL LOUVRE	1600MM EX HIGH	IND STATES
180 AIRFOIL LOUVRE	2050MM HIGH 2950MM LOW	SPIRAL SPIRAL SPIRAL SPIRAL SINCE
200 MAXI LOUVRE	2350MM EX HIGH	PINAL PIXED
300 MAXI LOUVRE	3350MM EX HIGH	END SACKED SIXED
600 MAXI LOUVRE	3700MM EX HIGH 5800MM	OW STATE OF THE ST

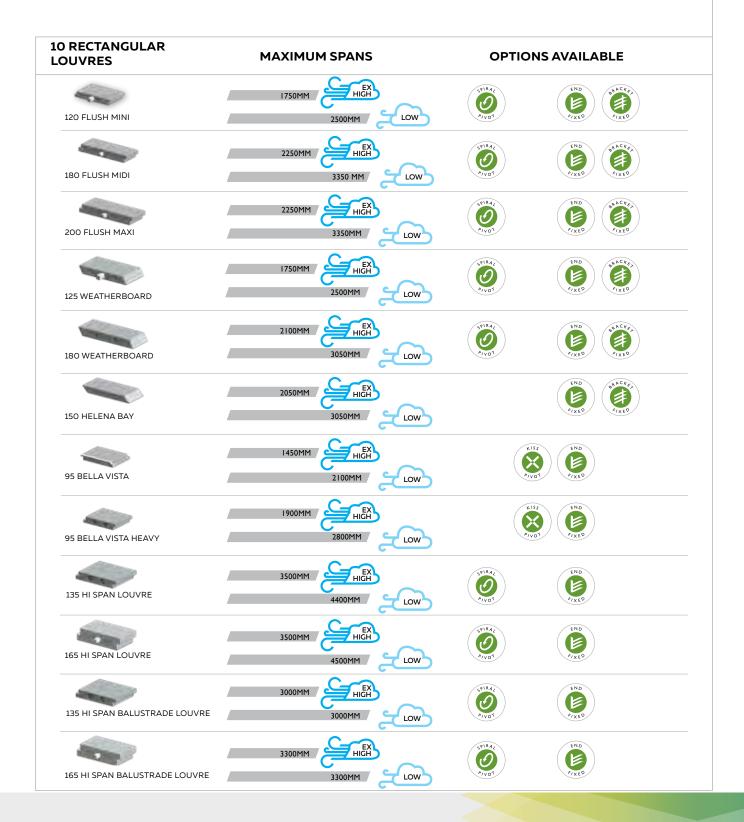
MINIMUM - MAXIMUM BLADE SPANS AT A GLANCE AS DETERMINED BY WIND SPEED. REFER TO SECTION 13 ENGINEERING REPORTS FOR FULL DETAILS ON BLADE SPANS.

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



LOW WIND SPEED LOW 115KM/H 32M/S

### **RECTANGULAR SUN LOUVRES**



### SUN LOUVRES RECTANGULAR (RL) SPANS & INSTALLATION OPTIONS AT A GLANCE

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

SPEED 198KM/H 55M/S





# RL RECTANGULAR SUN LOUVRES

6 DIFFERENT STYLES	MAXIMUM SPANS	OPTIONS AVAILABLE
RL 300 SQUARE	4050MM EX HIGH	NAXY END OF ACKED OF ACKED
RL 450 SQUARE	4050MM LOW	END (SEACCE)
RL 600 SQUARE	4050MM EX HIGH	END SAACKO,
RL 300 MITRE	4050MM LOW	ENO SANCEO.
RL 450 MITRE	4050MM EX HIGH	END STANCES
RL 600 MITRE	4050MM EXHIGH	END STANCES

# NOTES





KISS PIVOT SUN LOUVRES	KISSX"
Gallery	10.1.02
KISS Pivot Louvre Range	10.1.03
KISS Pivot Overview	10.1.04
KISS Pivot 90mm and 150mm louvre	10.1.05
Blade Specifications: 90mm + 150mm	10.1.06-10.1.07
Technical Details 90mm + 150mm	10.1.08
KISS Pivot 95mm Bella Vista + Bella Vista	
Heavy louvres	10.1.09
Blade Specifications: 95mm Bella Vista &	10.1.10-10.1.11
95 Bella Vista Heavy Louvres	
Technical Details 95mm Bella Vista louvre	s 10.1.12







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



LOW WIND SPEED 115KM/H 32M/S



# THE LOUVRETEC RANGE OF KISS PIVOT SUN LOUVRES

Kiss Pivot System

TYPE/COLLECTION	LOUVRE STYLE	MAXIMUM SPANS
AIRFOIL	90MM MIDI LOUVRE	1400MM EX HIGH
LOUVRE BLADES	150MM MIDI LOUVRE	1900MM EX HIGH
RECTANGULAR	95MM BELLA VISTA	1450MM EX HIGH
LOUVRE BLADES	95MM BELLA VISTA HEAVY	1900MM EX HIGH

### Proven reliability

KISS Pivot sun louvres feature a clean uncluttered style easily hand-operated by full length snug fitting double drive-arms.





# DRIVE SYSTEM: KISS PIVOT

### Kiss Pivot Sun Louvres

Choose from two Airfoil and two Rectangular louvre blades.



90MM SLIDING SHUTTERS USING KISS PIVOT DRIVE SYSTEM



KISS PIVOT - 95MM BELLA VISTA RECTANGULAR LOUVRE PANEL



KISS PIVOT LOUVRES IN SLIDING PANEL

### Ease of Operation

- The KISS Pivot system is elegant and simple, tried and true and well proven in the market place.
- An easy to operate, well proven Sun Louvre pivot system.
- Operates off double drive-arms that can be locked closed or in various open positions.
- Offers fully adjustable louvres at little more than fixed louvre prices.
- · Ideal as a stand-alone panel or used within Sliding, Bifolding and Hinged doors.
- KISS Pivot louvres allow for greater versatility and design options when considering hand adjustable louvres.
- A flush fitting stainless steel Slidelock provides locking points at fully closed, 45°, 90° and 135°
- Each blade has a woolpile closing strip to ensure snug rattle free closing.
- · Functional, reliable operable louvre design.

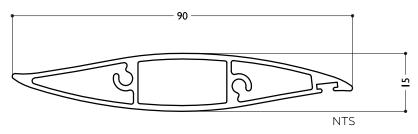


### HAND OPERABLE KISS PIVOT LOUVRES

Compatible Louvres: 90 Airfoil, 150 Midi

### 90MM MIDI LOUVRE

Small to medium size





90MM AIRFOIL LOUVRE

The 90mm Midi Louvre is similar to the 'wave' shape of the 150mm blade & is a perfect mix of compact width with good spans. This blade can be hand operated using the KISS Pivot system. The blades can be locked closed or in a number of opening positions. A woolpile closing insert ensures a snug fit when closed.

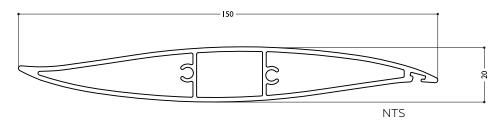
The 90mm Midi Louvre is well suited fixed within an opening or within sliding, bi-folding or hinged doors.

Also available end and bracket fixed.

REFER TECHNICAL DETAILS PAGE 10.1.06

### 150MM MIDI LOUVRE

Wave shaped blade





150MM AIRFOIL LOUVRE

The 150mm Midi is the largest of the 'wave' shape group of louvres.

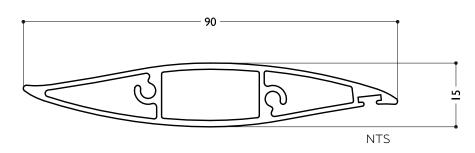
The wider blade spans well and is ideal for closing off decks and verandah spaces. This versatile louvre is available in both Spiral (motorised and hand operable) and KISS (hand adjustable) Pivot systems. KISS Pivot louvres are hand operated and can be locked closed in various opened positions.

A woolpile closing insert ensures a snug fit when closed. This blade is well suited fixed within an opening or within sliding, bifolding or hinged doors. Also available end and bracket fixed.

REFER TECHNICAL DETAILS PAGE 10.1.07



### BLADE SPECIFICATIONS 90MM AIRFOIL LOUVRE



BLADE SPECIFICATIONS			
Blade cover - opening system	80 mm	Weight per linear metre - opening system	0.75 kg/lm
Weight per square metre - opening syster	n 9.38 kg/sqm	Actual blade width	90 mm
Blade centres - opening system	80 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2350	2000	1850	1600	1500	140

### INSTALLATION OPTIONS

# CALCULATE OPTIMUM FRAME OPENING SIZES FOR KISS PIVOT

Width: Check engineering limits

Height: Calculation example showing 17 blades

### STEP 1

16 blades x 80	1280
1 blade at 90	+90
17 blades	=1370

### STEP 2

Blade cover 1370

+ top and bottom closing

angles allow for

16mm + 16mm 32 Total exact opening height= 1402\*

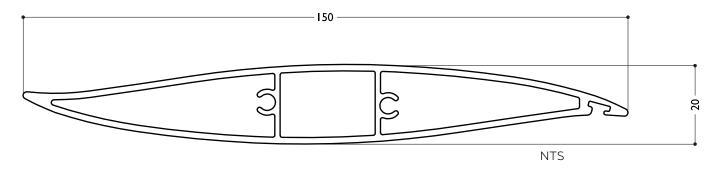
\*This is inside measure - not outer frame size



KISS PIVOT SYSTEM - 90MM MIDI LOUVRE PANEL



### BLADE SPECIFICATIONS 150MM MIDI LOUVRE



BLADE SPECIFICATIONS			
Blade cover - opening system	138 mm	Weight per linear metre - opening system	1.47 kg/lm
Weight per square metre - opening system	n 10.7 kg/sqm	Actual blade width	150 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2900	2750	2500	2200	2000	1900

### INSTALLATION OPTIONS

# CALCULATE OPTIMUM FRAME OPENING SIZES FOR KISS PIVOT

Width: Check engineering limits

Height: Calculation example showing 17 blades

### STEP1

16 blades x 138	2208
1 blade at 150	+ 150
17 blades	= 2358

### STEP 2

Blade cover 2358

+ top and bottom closing

angles allow for

21mm + 21mm + 42

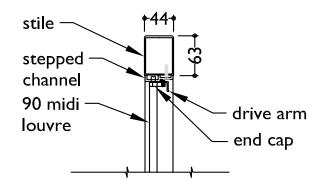
Total exact opening height =2400\*

\*This is inside measure - not outer frame size

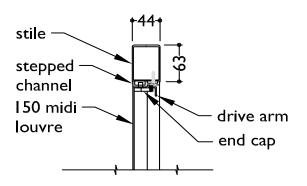


KISS PIVOT SYSTEM - 150MM MIDI LOUVRE PANEL

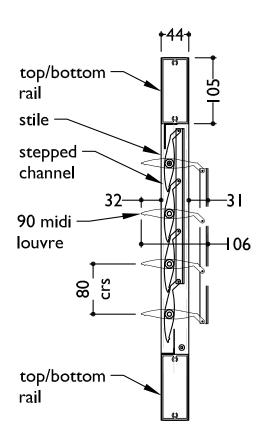
### 90MM KISS PIVOT FITTING INTO DOOR FRAME



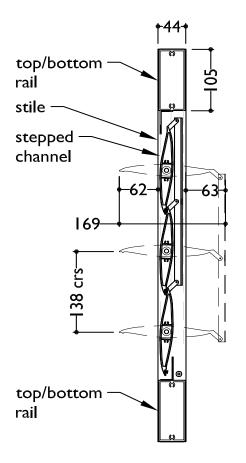
### 150MM KISS PIVOT FITTING INTO DOOR FRAME



### CROSS SECTION - DOOR PANEL SIDE ELEVATION



### **CROSS SECTION - DOOR PANEL SIDE ELEVATION**

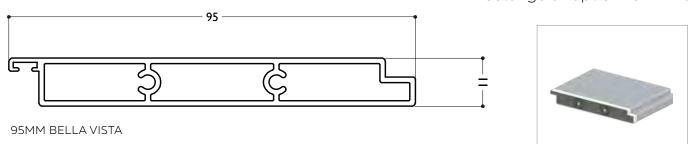


### HAND OPERABLE KISS PIVOT LOUVRES

Compatible Louvres: 95 Bella Vista, 95 Bella Vista Heavy

### 95MM BELLA VISTA

Rectangular option for infills



The Bella Vista family of two louvre blades is available in standard or heavy versions and offers a rectangular option to the 90mm KISS Midi Louvre.

Available as a hand operated KISS Pivot system and offering the advantages of fully adjustable louvres at little more than fixed louvre prices.

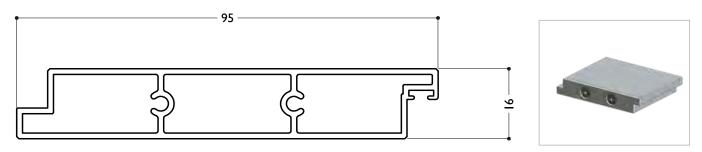
The rectangular blades close onto a woolpile strip and sit flush when closed giving a pleasing contrast to traditional shaped louvres. Particularly well suited to hinged or sliding shutters.

Also available end fixed.

REFER TECHNICAL DETAILS PAGE 10.1.10

# 95MM BELLA VISTA HEAVY

Ideal for exposed locations



### 95MM BELLA VISTA HEAVY

The Bella Vista family of two louvre blades is available in standard or heavy versions and offers a rectangular option to the 90mm KISS Midi Louvre.

Bella Vista Heavy is a hand operated KISS Pivot system and shares all the characteristics of the 95mm Bella Vista.

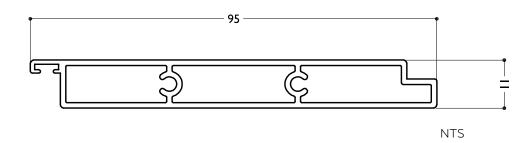
Designed to incorporate increased spanning capability this blade out performs all other louvres in its class and is particularly well suited to exposed locations.

Also available end fixed.

REFER TECHNICAL DETAILS PAGE 10.1.11



### BLADE SPECIFICATIONS 95MM BELLA VISTA



BLADE SPECIFICATIONS			
Blade cover - opening system	90 mm	Weight per linear metre - opening system	0.68 kg/lm
Weight per square metre - opening system	n 7.55 kg/sqm	Actual blade width	95 mm
Blade centres - opening system	90 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2550	2100	1900	1700	1550	1450

### **INSTALLATION OPTIONS**

CALCULATE OPTIMUM FRAME OPENING SIZES FOR KISS PIVOT

Width: Check engineering limits

Height: Calculation example showing 17 blades

STEP 1

16 blades x 90 2208 1 blade at 95 + 95 17 blades = 1535

STEP 2

Blade cover 1535

+ top and bottom closing

angles allow for

16mm + 16mm + 32 Total exact opening height = 1567\*

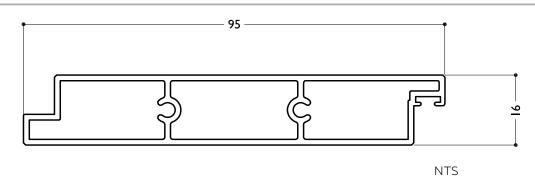
\*This is inside measure - not outer frame size



95MM BELLA VISTA KISS PIVOT PANEL



### BLADE SPECIFICATIONS 95MM BELLA VISTA HEAVY



BLADE SPECIFICATIONS			
Blade cover - opening system	90 mm	Weight per linear metre - opening system	0.91 kg/lm
Weight per square metre - opening syster	n 10.1 kg/sqm	Actual blade width	95 mm
Blade centres - opening system	90 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	3000	2800	2550	2250	2050	1900

### INSTALLATION OPTIONS

### CALCULATE OPTIMUM FRAME OPENING SIZES FOR KISS PIVOT

Width: Check engineering limits

Height: Calculation example showing 17 blades

### STEP 1

16 blades x 138	1440
1 blade at 95	+ 95
17 blades	= 1535

### STEP 2

Blade cover 1535

+ top and bottom closing

angles allow for

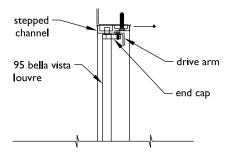
16mm + 16mm + 32 Total exact opening height = 1567\*

\*This is inside measure - not outer frame size

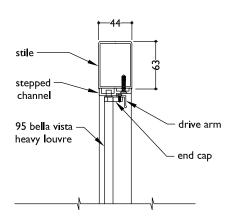


95MM BELLA VISTA HEAVY KISS PIVOT PANEL

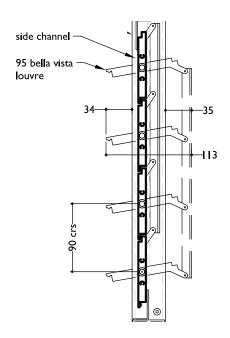
CROSS SECTION PLAN VIEW 95MM BELLA VISTA KISS PIVOT FITTING WITHIN AN OPENING



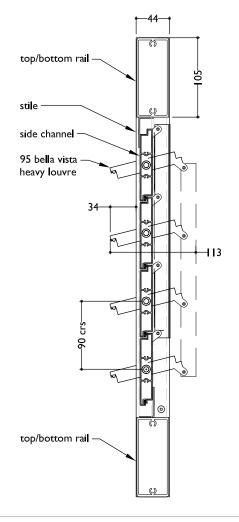
CROSS SECTION PLAN VIEW
95 BELLA VISTA HEAVY KISS PIVOT IN DOOR PANEL



CROSS SECTION - DOOR PANEL SIDE ELEVATION BELLA VISTA KISS PIVOT FITTING WITHIN AN OPENING



CROSS SECTION - SIDE ELEVATION
95 BELLA VISTA HEAVY KISS PIVOT IN DOOR
PANEL









### SPIRAL PIVOT SUN LOUVRES



Gallery and Overview	10.2.02 - 10.2.04
Overhead Sun Louvres Fitting into Existing Opening	10.2.05 - 10.2.07
Vertical Sun Louvres Fitting into Existing Opening	10.2.08 - 10.2.09
Elam Street Structural Frames	10.2.10 - 10.2.11
Vertical Balustrades	10.2.12
Raking Panels	10.2.13
Hand Operable Panels	10.2.14
Quick Reference Spiral Plvot Sun Louvre Spans	10.2.15 - 10.2.16
120mm Airfoil & 180mm Airfoil Louvres	10.2.17 - 10.2.21
150mm Midi & 200mm Maxi Louvres	10.2.22 - 10.2.27
120mm Flush, 180mm Flush & 200mm Flush Louvres	10.2.28 - 10.2.35
135 Hi-Span Operable Louvre Balustrades (NZ)	10.2.36 - 10.2.40
165 Hi-Span Operable Louvre Balustrades (AUS)	10.2.41 - 10.2.44
135 & 165 Hi-Span Fixing Details	10.2.45

### SUN LOUVRES SPIRAL PIVOT GALLERY











1. MOTORISED 165MM HI-SPAN LOUVRES 2. MOTORISED 135MM HI-SPAN LOUVRES IN ELAM STREET FRAMES 3. MOTORISED 200MM FLUSH LOUVRES

# DRIVE SYSTEM: SPIRAL PIVOT

Motorised and Hand Operable Sun Louvre Panels

The Spiral Pivot operating system is as well suited for motorising Sun Louvre panels as it is for motorising Opening Roofs.



HAND ADJUSTABLE, OVERHEAD SUN LOUVRES FITTING WITHIN AN OPENING



MOTORISED, VERTICAL SUN LOUVRES FITTING WITHIN AN OPENING

### The Spiral Pivot System



Louvretec's award winning Spiral Pivot system operates 17 different styles and shapes of louvres.

Engineered to include:

- · Marine grade 12.7mm SS hex drive shaft
- · Self-lubricating drive and pivot bearings
- · Notched angle double fixed blade retention
- · Powered by Somfy motors & controls

Everything is hidden from sight & protected from the weather. There are no unsightly drive arms or external motors on show.

### Reliability

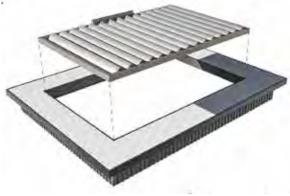
2025 sees over one million individual louvre blades worldwide pivoting with the Louvretec Spiral Drive system. Numbers that speak volumes regarding style, reliability & being totally fit for purpose.



MOTORISED, VERTICAL SUN LOUVRES INCLUDING STRUCTURAL FRAME

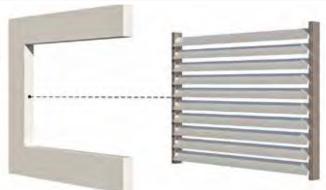
# MOTORISED & HAND OPERABLE SPIRAL PIVOT SUN LOUVRE PANELS





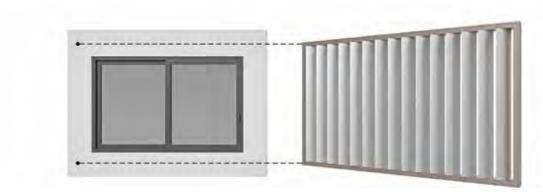
### OVERHEAD FITTING INTO AN EXISTING OPENING

Sun Louvre panel may have Drive and Pivot Frames only or may have Frame to Four Sides. Motor may be located on top in motor cover, or down under.



### VERTICAL FITTING INTO AN EXISTING OPENING

Sun Louvre panel may have Drive and Pivot Frames only or may have Frames to Four Sides. Motor located down under.



### VERTICAL REQUIRING A STRUCTURAL SUB-FRAME

Sun Louvre panel includes Elam-Street Structural Frame to Four Sides. Motor located down under.

### OVERHEAD SUN LOUVRES FITTING IN TO AN EXISTING OPENING

### Two Frame Options

There are two options when installing Motorised or Hand Operable Sun Louvre Panels into an existing opening.





### 1. FRAME TO FOUR SIDES - WRAP AROUND

Drive and Pivot sides are connected with Passive End Frames.

### 2. TWO SIDED DRIVE & PASSIVE FRAME

Frame is Two Sided only with Drive and Passive sides.

### Motorised: Two Options for Motor Location





1. MOTOR ON TOP - LOCATED WITHIN A MOTOR COVER

2. MOTOR DOWN-UNDER - LOCATED WITHIN A DOWN-UNDER FRAME

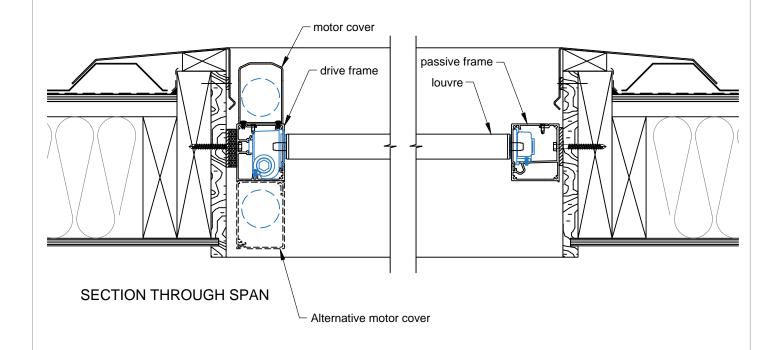
### Hand Operable Option



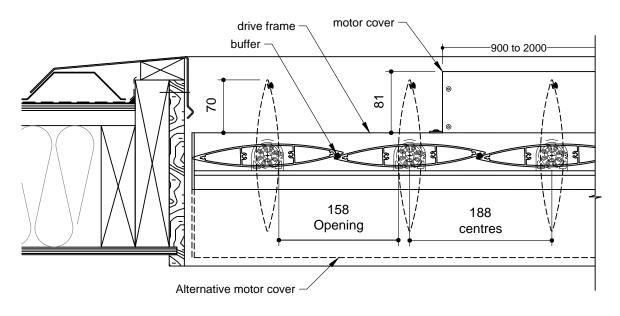
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### TYPICAL DETAIL: MOTORISED OVERHEAD SPIRAL PIVOT SUN LOUVRES FITTING INTO EXISTING OPENING

SECTION THROUGH SPAN - MOTORISED 200MM MAXI LOUVRE INTO EXISTING OPENING



SECTION THROUGH LOUVRES - MOTORISED 200MM MAXI LOUVRE INTO EXISTING OPENING

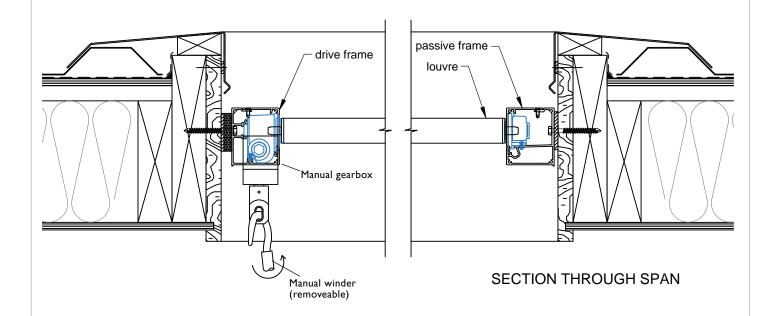


**SECTION THROUGH LOUVRES** 

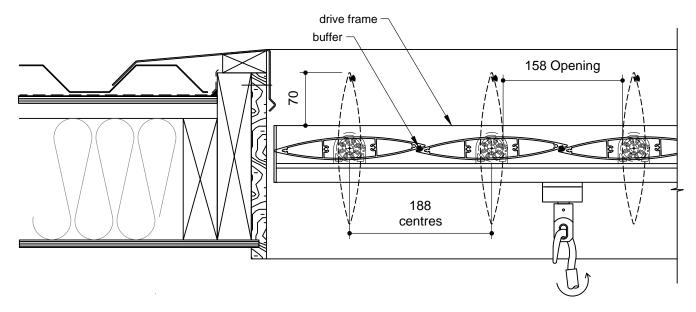


### TYPICAL DETAIL: HAND OPERABLE OVERHEAD SPIRAL PIVOT SUN LOUVRES FITTING INTO EXISTING OPENING

SECTION - MANUALLY OPERABLE 200MM MAXI LOUVRE INTO EXISTING OPENING



### SECTION - MANUALLY OPERABLE 200MM MAXI LOUVRE INTO EXISTING OPENING



SECTION THROUGH LOUVRES

SCALE: www.louvretec.co.nz DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.07

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## VERTICAL SPIRAL PIVOT SUN LOUVRE PANELS

Installation: Blades can be installed vertically or horizontally



1. VERTICAL MOTORISED LOUVRE PANEL WITH BLADES RUNNING VERTICALLY, FITTING INTO AN EXISTING OPENING

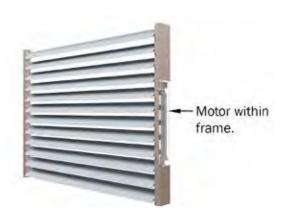


2. VERTICAL MOTORISED LOUVRE PANEL WITH BLADES RUNNING HORIZONTALLY, FITTING INTO AN EXISTING OPENING

Location of Motor

Downunder Frame & Motor Cover

1. FRAME IS FOUR SIDED WRAP AROUND. DRIVE AND PIVOT SIDES ARE CONNECTED WITH PASSIVE END FRAMES



2. FRAME IS TWO SIDED ONLY, DRIVE AND PIVOT SIDES

### Hand Operable

VERTICAL LOUVRES
CAN BE HAND OPERATED WITH
A GEARBOX & CRANK HANDLE

**REFER TO PAGE 10.2.14** 



### VERTICAL PANELS

- Short crank handles for easily accessible vertical panels are available in three standard lengths; 30mm, 95mm, 150mm
- · Refer to page 10.2.14 for details

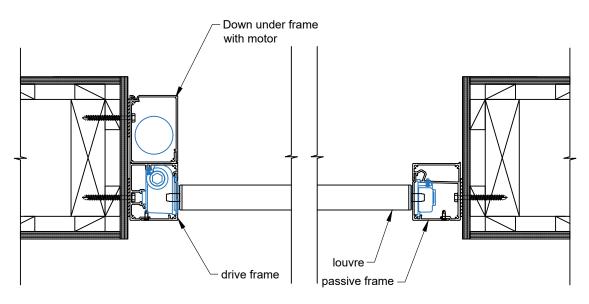
### **OVERHEAD PANELS**

- Overhead access is made easy with hook handles available in the following standard lengths; 600mm, 900mm 1200mm, 1500mm, 1800mm
- · A short or long eyelet is also available.

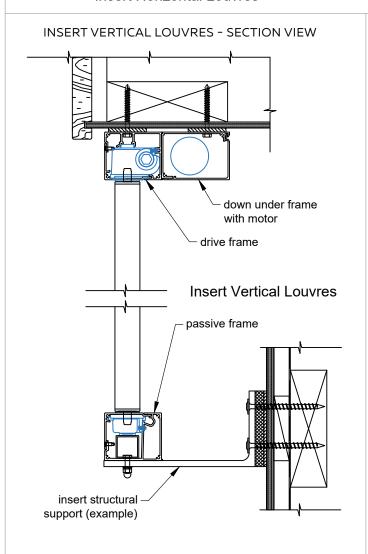


### TYPICAL DETAIL: VERTICAL SUN LOUVRE PANELS FITTING INTO AN EXISTING OPENING

### INSERT HORIZONTAL LOUVRES - PLAN VIEW



Insert Horizontal Louvres

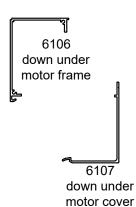


### DRIVE, PASSIVE & DOWN UNDER **FRAMES**









DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.09

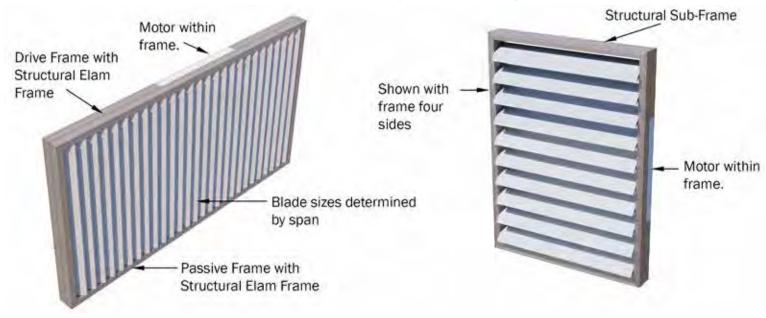
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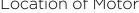
### VERTICAL SPIRAL PIVOT SUN LOUVRE PANELS

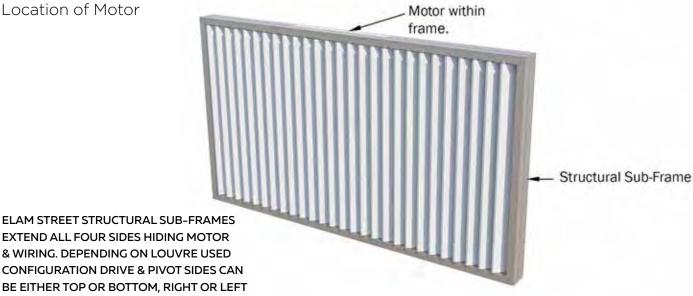
Installation: Blades can be installed vertically or horizontally in a Structural Sub-Frame



1. VERTICAL MOTORISED SUN LOUVRES RUNNING VERTICALLY, FITTING WITHIN AN ELAM STREET STRUCTURAL SUB-FRAME

2. VERTICAL MOTORISED SUN LOUVRES RUNNING HORIZONTALLY, FITTING WITHIN AN ELAM STREET STRUCTURAL SUB-FRAME

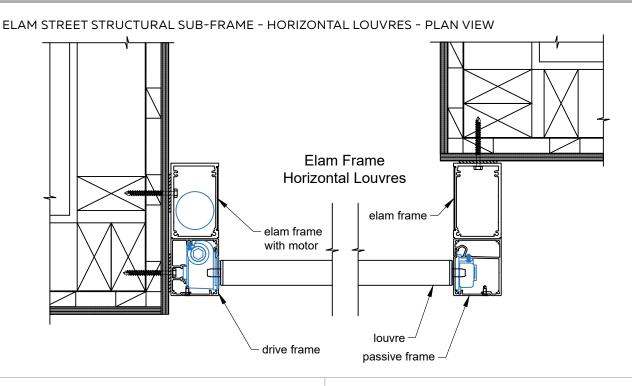




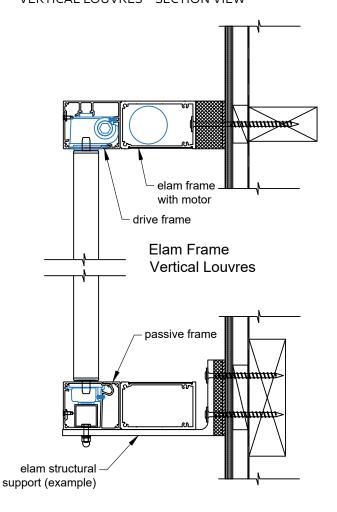
### Hand Operable

Due to the Structural Frame sitting outside the building, very few Elam Street panels are hand operated as this would require the gearbox shaft protruding through the building. Conventional Motorised or Solar Powered Motorisation (if no power is available) are the preferred options.

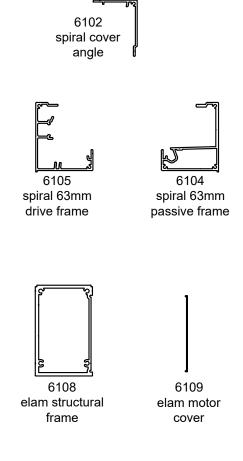
### TYPICAL DETAIL: VERTICAL SUN LOUVRE PANELS REQUIRING AN ELAM STREET STRUCTURAL SUB-FRAME



### **ELAM STREET STRUCTURAL SUB-FRAME VERTICAL LOUVRES - SECTION VIEW**



### **ELAM STREET STRUCTURAL SUB-FRAMES**



SCALE:

DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.11

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### **DRIVE SYSTEM - SPIRAL PIVOT**

### Vertical Balustrades

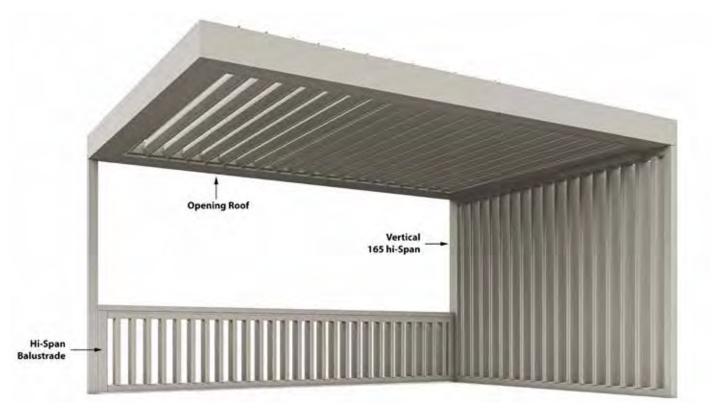
Louvretec's Hi-Span Spiral Pivot operated balustrade louvre system has been designed to meet Australian & NZ Standards.

- Motorised or hand-operated this unique louvre system can be used as a balustrade, spanning up to 3000mm high.
- 165mm Hi-Span opens to a maximum of 125mm as required in Australia.
- $\cdot~$  135mm Hi-Span opens to a maximum of 100mm as required in NZ
- · The louvre is rated to be used as an infill panel only.
- · Structural balustrade support of the infill panel by others.



HAND OPERABLE HI-SPAN BALUSTRADE

### 1M PLUS AND FULL HEIGHT BALUSTRADE LOUVRES



VERTICAL HI-SPAN BALUSTRADE

### APPLICATION OVERVIEW SPIRAL PIVOT INSERT PANELS - RAKING PANELS



MOTORISED RAKING PANEL, THE NETHERLANDS

# DRIVE SYSTEM - SPIRAL PIVOT

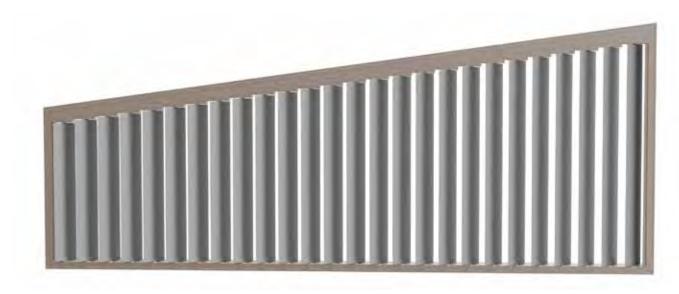
### Raking panels

Louvretec can offer Raking Frames covering a wide range of Spiral Pivot Louvres.

- · Choice of Airfoil or Rectangular Louvres
- · Suitable for Vertical Wall Panels or Raking Overhead Panels.
- · Can be installed on any pitch up to 45 degrees.
- · Spiral Drive system sits within non-raking side.

Contact your local Louvretec Dealer regarding custom made Raking Panels.

### **VERTICAL OR OVERHEAD PANELS**

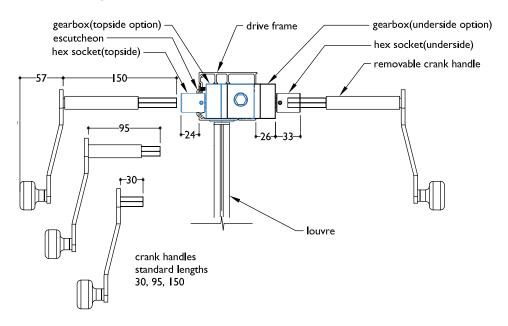


200MM MAXI LOUVRE RAKING PANEL. MOTORISED BY SPIRAL PIVOT SYSTEM

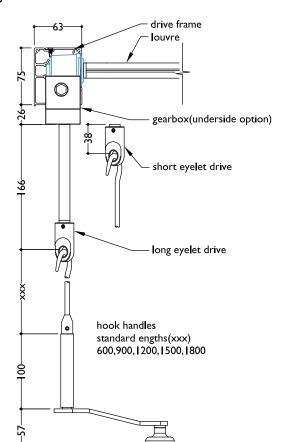
### SPIRAL PIVOT DRIVE SYSTEM

Manually operated Spiral Pivot with Pivot Handle

### **VERTICAL PANELS HANDLE DETAILS**



### **OVERHEAD PANELS HANDLE DETAILS**



### MANUAL OPERATION

Manual gearboxes can be installed for operation from either the topside or the underside of the Drive Frame. The Gearbox Hex Socket and Escutcheon (topside only) have a hard, anodised finish (silver). Louvre handles are stainless steel/aluminium



# QUICK REFERENCE

COMPATIBLE SUN LOUVRES WITH SPIRAL PIVOT SYSTEM



### SPIRAL PIVOT SUN LOUVRES RANGE

120 Airfoil & 180 Airfoil Louvres	10.2.17 - 10.2.21
150 Midi & 200 Maxi Louvres	10.2.22 - 10.2.27
120 Flush Mini, 180 Flush Midi & 200 Flush Maxi Louvres	10.2.28 - 10.2.35
135 Hi-Span Balustrade Louvre (NZ)	10.2.36 - 10.2.40
165 Hi-Span Balustrade Louvre (AU)	10.2.41 - 10.2.44
135 Hi-Span & 165 Hi-Span Balustrades Fixing Details	10 2 45

### APPLICATION OVERVIEW GROUPED SPIRAL PIVOT LOUVRES AT GLANCE

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

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



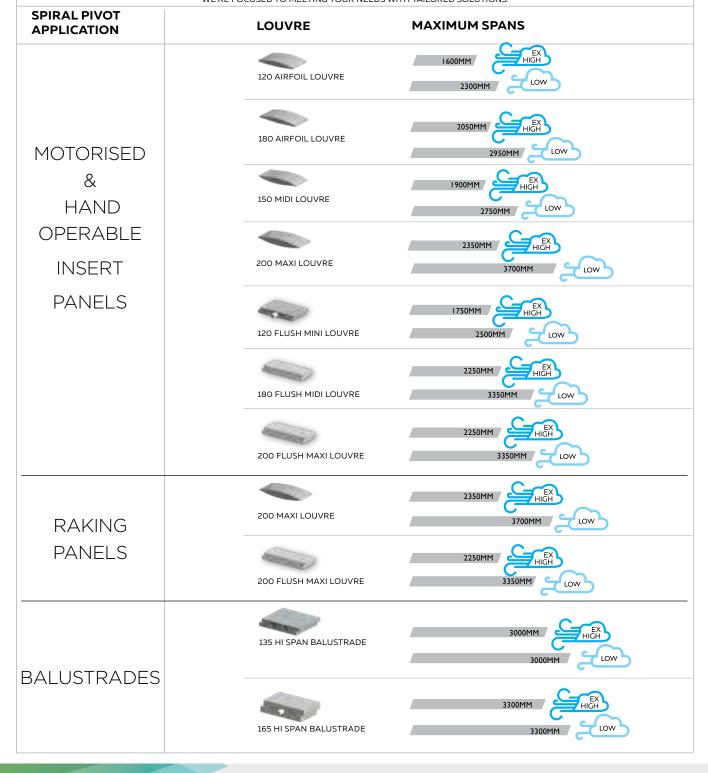
LOW WIND SPEED



# LOUVRETEC SUN LOUVRES COMPATIBLE WITH SPIRAL PIVOT SYSTEM

Motorised & Hand Operable Sun Louvre System

IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER.
WE'RE FOCUSED TO MEETING YOUR NEEDS WITH TAILORED SOLUTIONS.

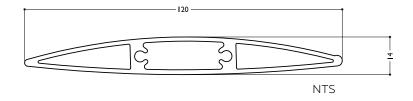


# SUN LOUVRES SPIRAL PIVOT AIRFOIL SUN LOUVRES MOTORISED & HAND OPERABLE INSERT PANELS AIRFOIL LOUVRES

Compatible Louvres: 120 Airfoil, 180 Airfoil, 150 Midi, 200 Maxi

### 120MM AIRFOIL LOUVRE

Ideal for use within a structural frame



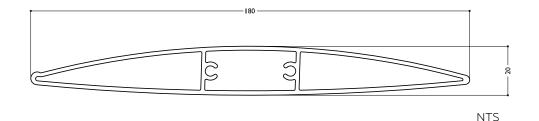


120MM AIRFOIL LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.18

# 180MM AIRFOIL LOUVRE

Solution for wider openings





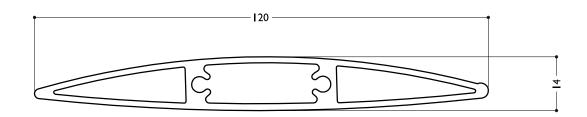
180MM AIRFOIL LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.20

### SUN LOUVRES SPIRAL PIVOT



### **BLADE SPECIFICATIONS 120MM AIRFOIL LOUVRE**



BLADE SPECIFICATIONS			
Blade cover - opening system	115 mm	Weight per linear metre - opening system	1.3 kg/lm
Weight per square metre - opening system	11.3 kg/sqm	Actual blade width	120 mm
Blade centres - opening system	115 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2400	2300	2100	1850	1700	1600

### INSTALLATION OPTIONS



# SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

STEP 1

 16 blades x 115
 1840

 1 blade at 120
 120

 17 blades
 =1960

STEP 2

Blade cover 1960

+ top and bottom closing

angles allow for

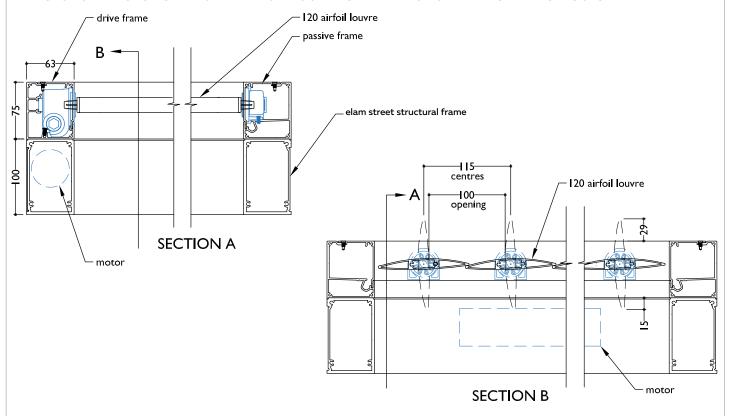
5mm + 5mm 10 Total exact opening height =1970

\*This is inside measure - not outer frame size

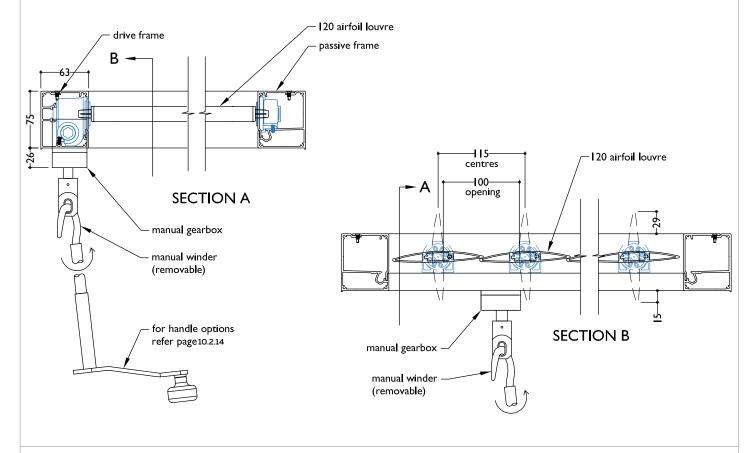


ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HORIZONTAL BLADES

### SECTION - MOTORISED 120MM AIRFOIL LOUVRE SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



SECTION - INSERT PANEL FOUR SIDED FRAME HAND OPERABLE SPIRAL PIVOT 120MM AIRFOIL LOUVRE - MOTORISED 120MM AIRFOIL LOUVRE SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



SCALE: www.louvretec.co.nz

DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.19

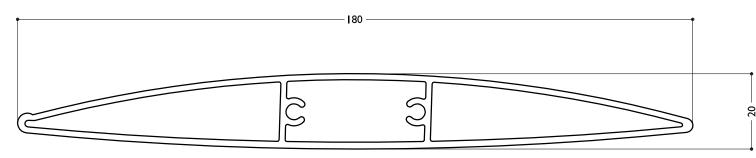
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### SUN LOUVRES SPIRAL PIVOT



### BLADE SPECIFICATIONS 180MM AIRFOIL LOUVRE



BLADE SPECIFICATIONS			
Blade cover - opening system	169 mm	Weight per linear metre - opening system	1.85 kg/lm
Weight per square metre - opening system	n 11 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	3100	2950	2700	2400	2200	2050

### **INSTALLATION OPTIONS**



### SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

### STEP 1

16 blades x 169 2704 1 blade at 180 180 17 blades =2884

### STEP 2

Blade cover 2884

+ top and bottom closing

angles allow for

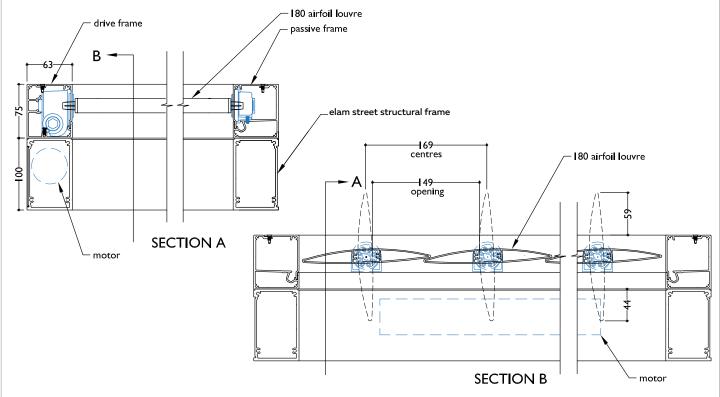
5mm + 5mm 10 Total exact opening height =2894\*



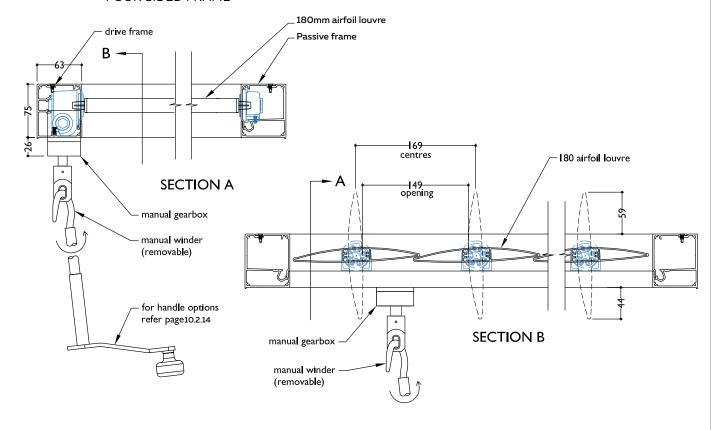
ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HAND OPERABLE HORIZONTAL BLADES



### SECTION - MOTORISED 180MM AIRFOIL LOUVRE SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



# SECTION - MANUALLY OPERABLE 180MM AIRFOIL LOUVRE SPIRAL PIVOT INSERT PANEL FOUR SIDED FRAME



SCALE: www.louvretec.co.nz

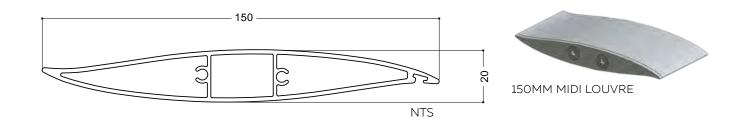
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.21

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



## 150MM MIDI LOUVRE

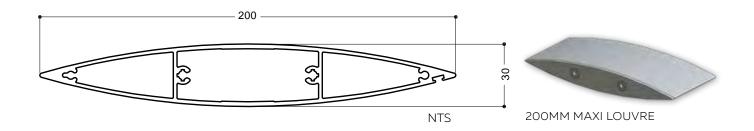
Wave shaped louvre



**REFER TECHNICAL DETAILS PAGES 10.2.23** 

## 200MM MAXI LOUVRE

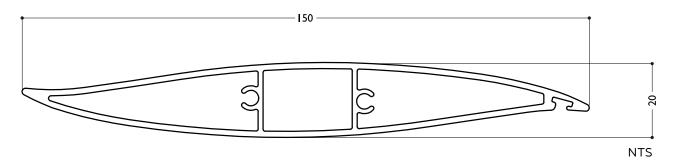
Most specified Maxi Louvre



REFER TECHNICAL DETAILS PAGES 10.2.25



### BLADE SPECIFICATIONS 150MM MIDI LOUVRE



BLADE SPECIFICATIONS			
Blade cover - opening system	138 mm	Weight per linear metre - opening system	1.47 kg/lm
Weight per square metre - opening system 10.7 kg/sqm		Actual blade width	150 mm
Blade centres - opening system	138 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2900	2750	2500	2200	2000	1900

### **INSTALLATION OPTIONS**



# SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

STEP 1

 16 blades x 138
 2208

 1 blade at 150
 150

 17 blades
 =2358

STEP 2

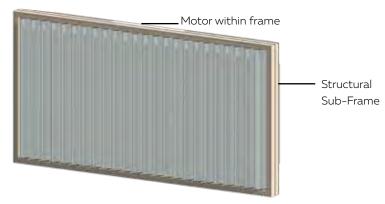
Blade cover 2358

+ top and bottom closing

angles allow for

5mm + 5mm 10

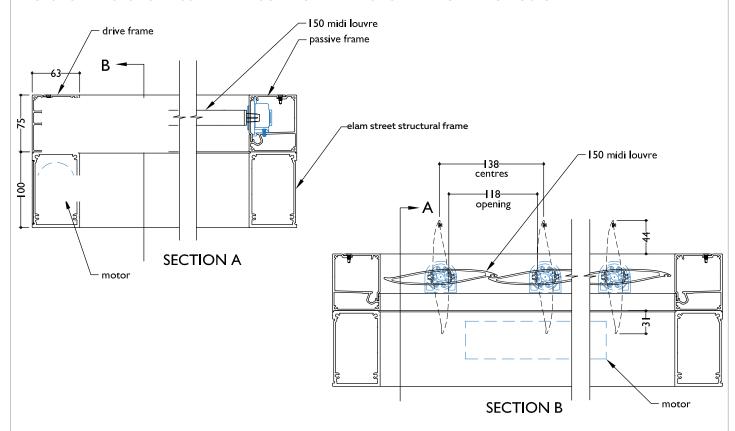
Total exact opening height =2368\*



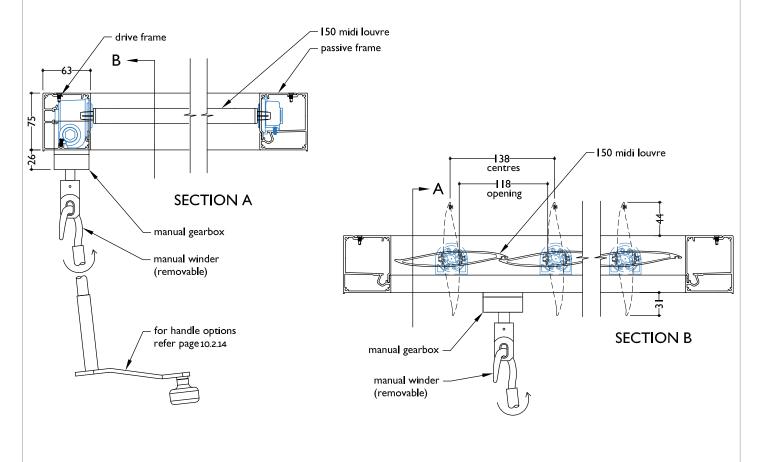
ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME VERTICAL PANEL - VERTICAL BLADES

## TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 150MM MIDI LOUVRE

### SECTION - MOTORISED 150MM MIDI LOUVRE SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



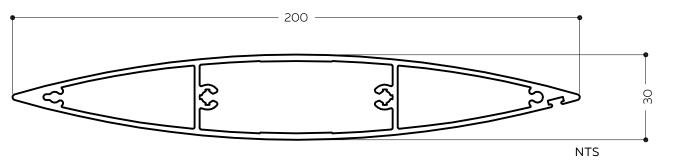
### SECTION - MANUALLY OPERABLE 150MM MIDI LOUVRE SPIRAL PIVOT INSERT PANEL - FOUR SIDED FRAME







### BLADE SPECIFICATIONS 200MM MAXI LOUVRE



BLADE SPECIFICATIONS			
Blade cover - opening system	188 mm	Weight per linear metre - opening system	2.75 kg/lm
Weight per square metre - opening system 14.63 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	3700	3700	3550	2950	2600	2350

### **INSTALLATION OPTIONS**



# SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

STEP 1

 16 blades x 188
 3008

 1 blade at 200
 200

 17 blades
 =3208

STEP 2

Blade cover

+ top and bottom closing

angles allow for

5mm + 5mm 10

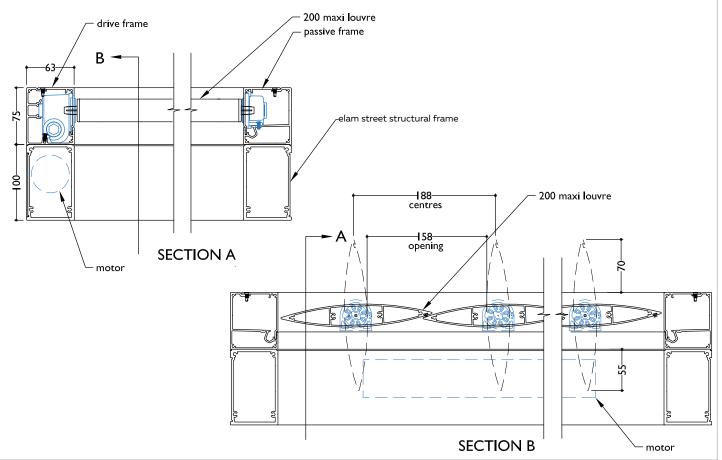
Total exact opening height =3218\*



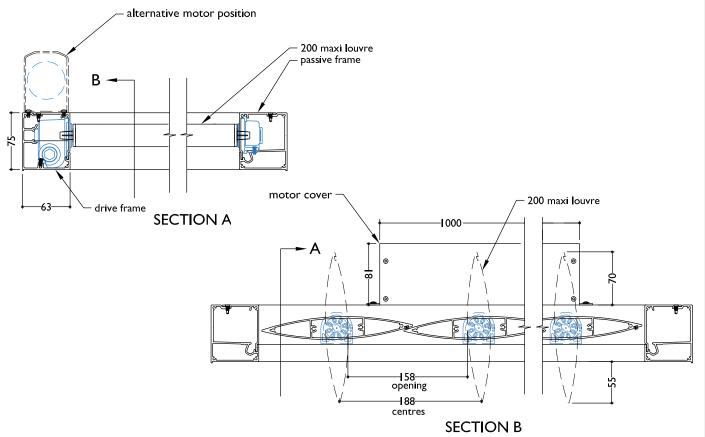
ELAM STREET STRUCTURAL FRAME
VERTICAL PANEL - HAND OPERABLE HORIZONTAL BLADES

## TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 200MM MAXI LOUVRE

### SECTION - MOTORISED 200MM MAXI LOUVRE SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



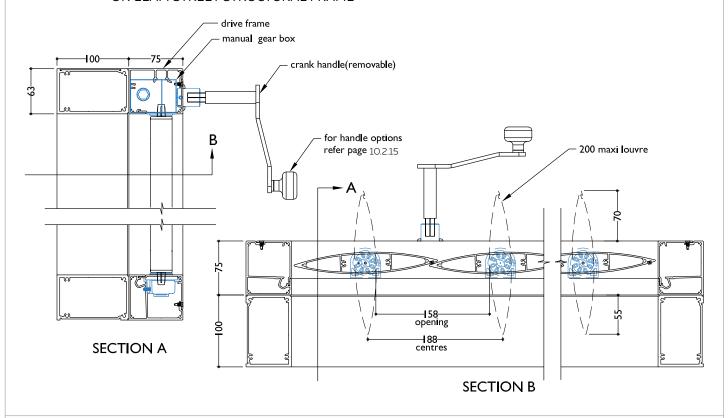
SECTION - MOTORISED 200MM MAXI LOUVRE SPIRAL PIVOT WITH TOP MOUNTED MOTOR INSERT PANEL FOUR SIDED FRAME



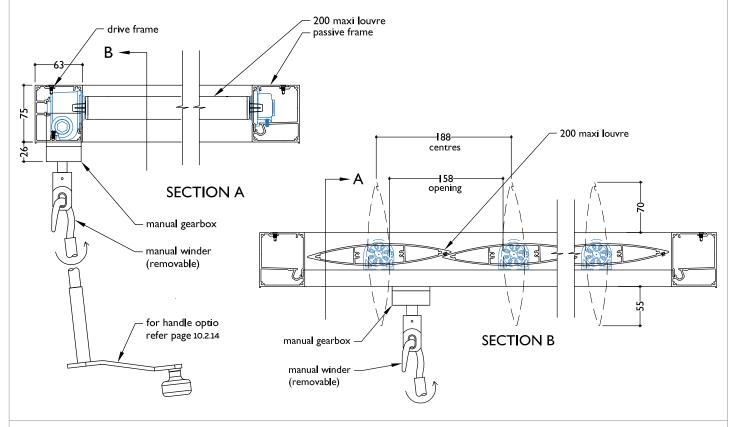


## TYPICAL DETAIL: HAND OPERABLE SPIRAL PIVOT SYSTEM 200MM MAXI LOUVRE

# SECTION - MANUALLY OPERABLE 200MM MAXI LOUVRE USING SPIRAL PIVOT SYSTEM ON ELAM STREET STRUCTURAL FRAME



SECTION - MANUALLY OPERABLE 200MM MAXI LOUVRE USING SPIRAL PIVOT SYSTEM INSERT PANEL - FOUR SIDED FRAME



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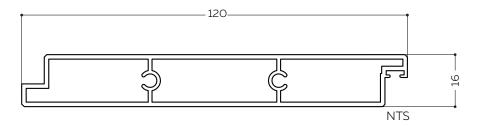


# SUN LOUVRES SPIRAL PIVOT RECTANGULAR SUN LOUVRES - SPANS AT A GLANCE MOTORISED & HAND OPERABLE INSERT PANELS RECTANGULAR LOUVRES

Compatible Louvres: 120 Flush Mini, 180 Flush Midi, 200 Flush Maxi

## 120MM FLUSH MINI

Wall Panel / Sun Louvre / Balustrade



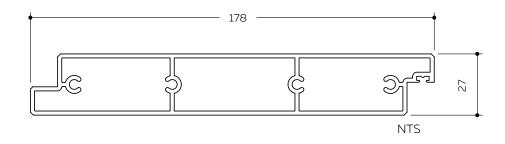


120MM FLUSH MINI LOUVRE CENTRE PIVOT

REFER TECHNICAL DETAILS PAGES 10.2.29

## 180MM FLUSH MIDI

Wall Panel / Sun Louvre / Balustrade



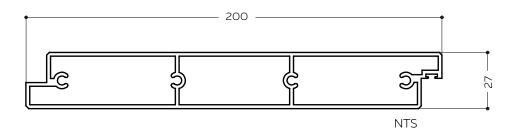


180MM FLUSH MIDI LOUVRE CENTRE PIVOT

REFER TECHNICAL DETAILS PAGES 10.2.31

## 200MM FLUSH MAXI

Wall Panel / Sun Louvre / Balustrade



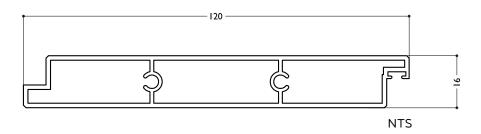
200MM FLUSH MAXI CENTRE PIVOT

200MM FLUSH MAXI REAR PIVOT

REFER TECHNICAL DETAILS PAGES 10.2.33



### BLADE SPECIFICATIONS 120MM FLUSH MINI



BLADE SPECIFICATIONS			
Blade cover - opening system	115 mm	Weight per linear metre - opening system	0.86 kg/lm
Weight per square metre - opening system 8 kg/sqm		Actual blade width	120 mm
Blade centres - opening system	115 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2600	2500	2300	2050	1900	1750

### **INSTALLATION OPTIONS**



# SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 18 blades

STEP 1

 16 blades x 115
 1955

 1 blade at 120
 120

 17 blades
 =2075

STEP 2

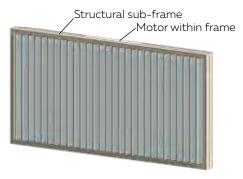
Blade cover 2075

+ top and bottom closing

angles allow for

5mm + 5mm 10

Total exact opening height =2085\*

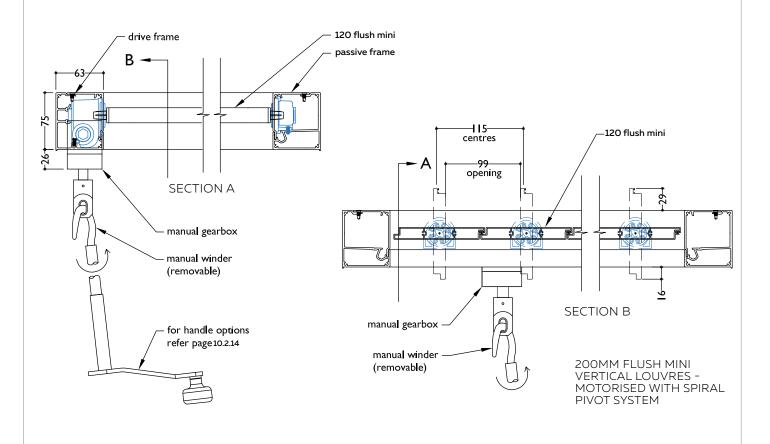


ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME VERTICAL PANEL - VERTICAL BLADES

### TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 120MM FLUSH MINI - ELAM STREET STRUCTURAL FRAME

# SECTION - SPIRAL PIVOT SYSTEM MOTORISED - 120 MINI PANEL IN ELAM STREET STRUCTURAL FRAME drive frame 120 flush mini passive frame elam street structural frame -115 centres 120 flush mini 8 opening **SECTION A** motor **SECTION B**

### SECTION - SPIRAL PIVOT SYSTEM HAND OPERABLE - 120 FLUSH MINI INSERT IN TO FOUR SIDED FRAME

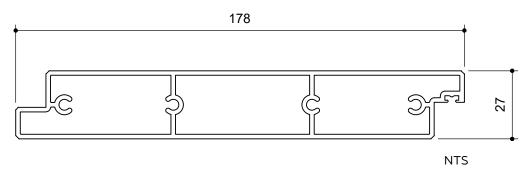




motor



### BLADE SPECIFICATIONS 180MM FLUSH MIDI



BLADE SPECIFICATIONS			
Blade cover - opening system	169 mm	Weight per linear metre - opening system	2.44 kg/lm
Weight per square metre - opening system 13.95 kg/sqm		Actual blade width	178 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	3500	3350	3000	2650	2450	2250

### **INSTALLATION OPTIONS**



# SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

STEP 1

 16 blades x 169
 2704

 1 blade at 178
 178

 17 blades
 =2882

STEP 2

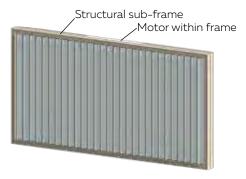
Blade cover 2882

+ top and bottom closing

angles allow for

5mm + 5mm 10

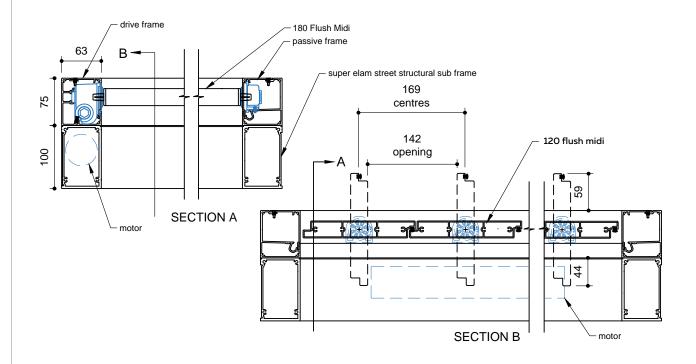
Total exact opening height = 2892\*



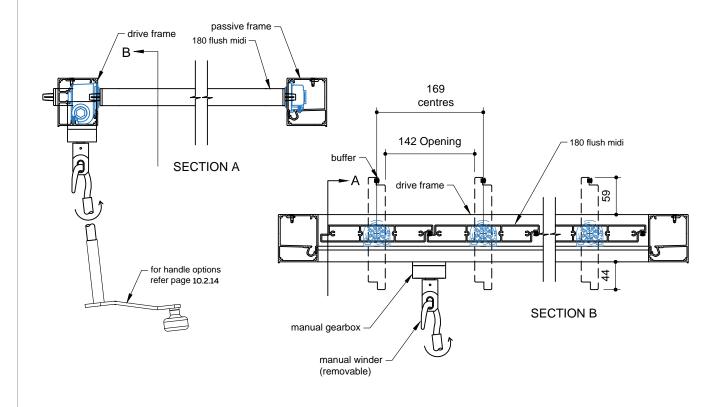
ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME VERTICAL PANEL - VERTICAL BLADES

## TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 180MM FLUSH MIDI - ELAM STREET STRUCTURAL FRAME

### SECTION - SPIRAL PIVOT SYSTEM MOTORISED - 180 FLUSH MIDI IN ELAM STREET STRUCTURAL FRAME



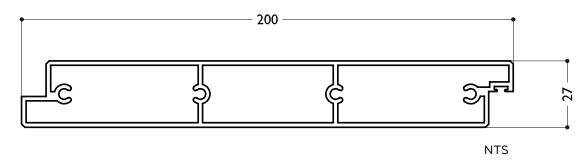
### SECTION - SPIRAL PIVOT SYSTEM HAND OPERABLE - 180 FLUSH MIDI INSERT







### BLADE SPECIFICATIONS 200MM FLUSH MAXI



BLADE SPECIFICATIONS			
Blade cover - opening system	192 mm	Weight per linear metre - opening system	2.67 kg/lm
Weight per square metre - opening system 13.95 kg/sqm		Actual blade width	200 mm
Blade centres - opening system	192 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	3500	3350	3000	2650	2450	2250

### **INSTALLATION OPTIONS**



# SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

STEP 1

 16 blades x 192crs
 3072

 1 blade at 200
 200

 17 blades
 =3272

STEP 2

Blade cover 3272

+ top and bottom closing

angles allow for

5mm + 5mm 10 Total exact opening height = 3282\*



200 FLUSH MAXI - CENTRE PIVOT

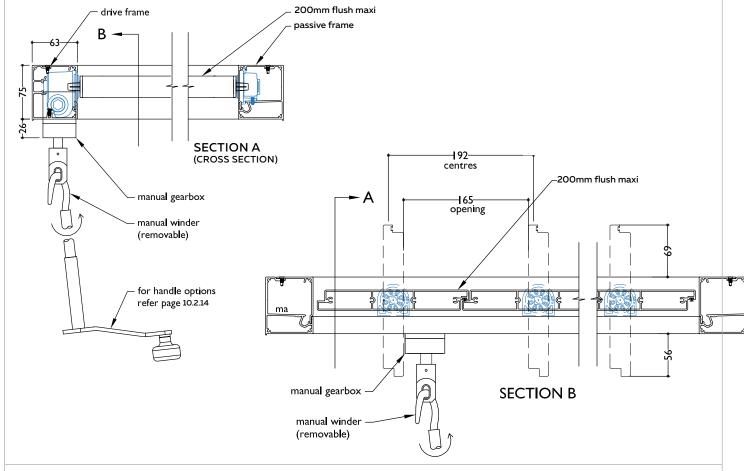


200 FLUSH MAXI - REAR PIVOT

## TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 200MM FLUSH MAXI - CENTRE PIVOT

SECTION - CENTRE PIVOT MOTORISED 200 FLUSH MAXI SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME 200mm flush mini drive frame passive frame В elam street structural frame 192-200 flush louvre centres -165opening JĘ STE C motor **SECTION A** (CROSS SECTION)





LouvreTec

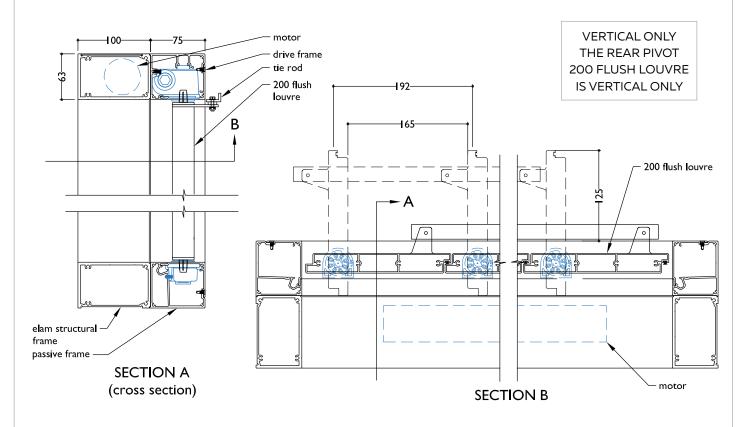
FILE: SUN LOUVRES Spiral Pivot 10.2.34

DATE MODIFIED: 01/10/2024 SCALE: www.louvretec.com.au

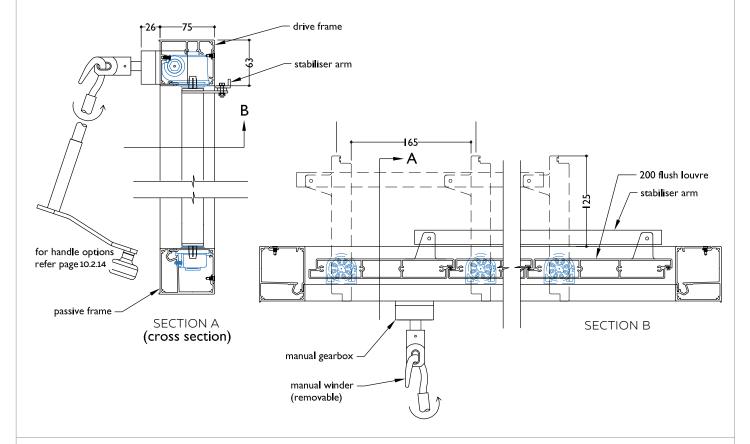
**SECTION B** 

motor

### SECTION - REAR PIVOT MOTORISED 200 FLUSH MAXI SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



# SECTION - REAR PIVOT MANUALLY OPERABLE 200 FLUSH MAXI SPIRAL PIVOT INSERT PANEL FOUR SIDED FRAME



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# MOTORISED, HAND OPERABLE OR END FIXED BALUSTRADE

Compatible Louvres: 135mm Hi-Span, 165mm Hi-Span

### DRIVE SYSTEM: SPIRAL PIVOT

Operable or End Fixed Balustrade Systems

## NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

135MM HI-SPAN BALUSTRADE ALUMINIUM FRAME, VERTICAL PANEL



## AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

165MM HI-SPAN BALUSTRADE ALUMINIUM FRAME, VERTICAL PANEL







### OVERVIEW SPIRAL PIVOT OPERABLE OR END FIXED 135MM HI-SPAN BALUSTRADE LOUVRES



135MM HI-SPAN LOUVRES AS BALUSTRADE



SPIRAL PIVOT OPERABLE 135MM HI-SPAN BALUSTRADE LOUVRE CAN ALSO BE END FIXED

# 135MM HI-SPAN BALUSTRADE LOUVRES

### Operable Balustrades

The 135mm Hi-Span louvre has been designed to provide an operable Spiral pivoting louvre suitable to be used as a

balustrade system in NZ.

The louvre is to be used as an infill panel only and does not include structural horizontal or vertical balustrade supports.

Structural balustrade support by others.

### Balustrade - Technical details

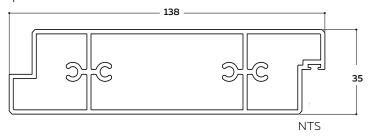
# NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

This is a general guideline outlining some key requirements as at the time of printing. Please confirm all details with your local regulatory authority prior to balustrade installation.

- A barrier is required when someone could fall vertically 1m or more.
- 2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
- 3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over the balustrade or fall through.
- 4. In NZ the maximum opening between balustrade verticals is 100mm.
- 5. In Australia the maximum opening between balustrade verticals is 125mm.

## 135MM HI-SPAN BALUSTRADE LOUVRES

### Operable Balustrades



REFER TECHNICAL DETAILS PAGE 10.2.38

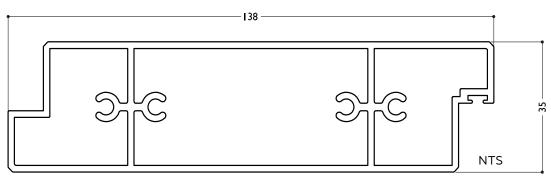


135MM HI-SPAN BALUSTRADE LOUVRE





## BLADE SPECIFICATIONS 135MM HI-SPAN BALUSTRADE LOUVRES (NOTE ACTUAL BLADE WIDTH 138MM)



BLADE SPECIFICATIONS	
Blade cover - opening system 130 mm	Weight per linear metre - opening system 2.16 kg/lm
Weight per square metre - opening system 16.4 kg/sqm	Actual blade width 138 mm
Blade centres - opening system 130 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	4850	4400	4400	4100	3700	3500
Adjustable & Fixed - Balustrade	3000	3000	3000	3000	3000	3000

### **INSTALLATION OPTIONS**



## SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits
Height: Calculation example showing 17 blades

STEP 1

16 blades x 130	2080
1 blade at 138	138
17 blades	=2218

STEP 2

Blade cover 2218

+ top and bottom closing

angles allow for

5mm + 5mm 10 Total exact opening height = 2228\*

\*This is inside measure - not outer frame size

# TECHNICAL DETAILS BALUSTRADES NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

This is a general guideline outlining some key requirements as at the time of printing. Please confirm all details with your local regulatory authority prior to balustrade installation.

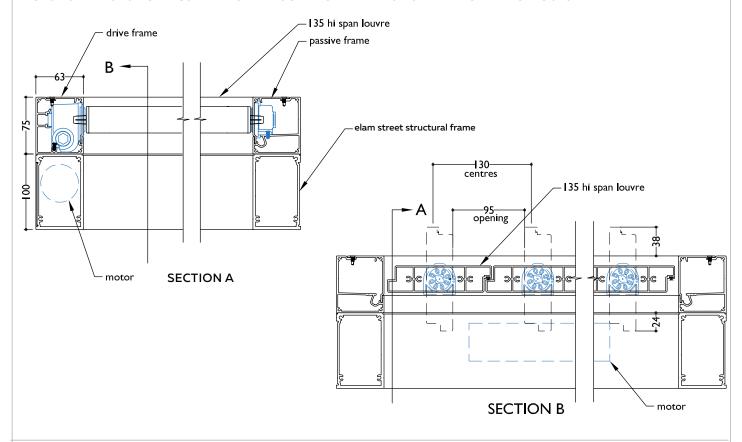
- 1. A barrier is required when someone could fall vertically 1m or more.
- 2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
- 3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over the balustrade or fall through.
- 4. In NZ the maximum opening between balustrade verticals is 100mm.
- 5. In Australia the maximum opening between balustrade verticals is 125mm.



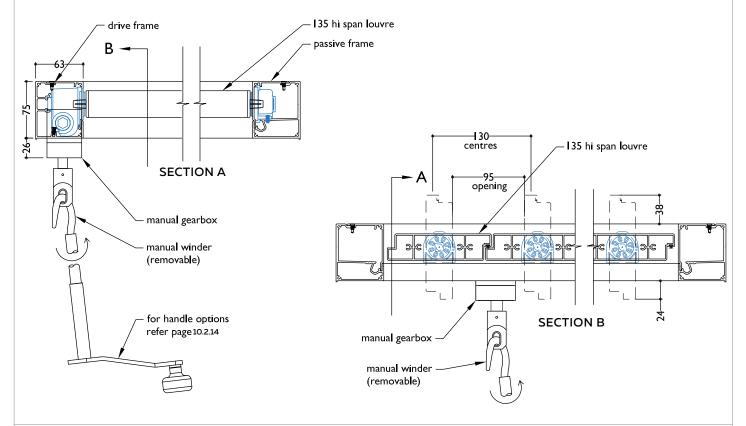


#### NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

SECTION - MOTORISED 135MM HI-SPAN LOUVRE SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



### SECTION - MANUALLY OPERABLE 135 HI-SPAN LOUVRE SPIRAL PIVOT INSERT PANEL FOUR SIDED FRAME



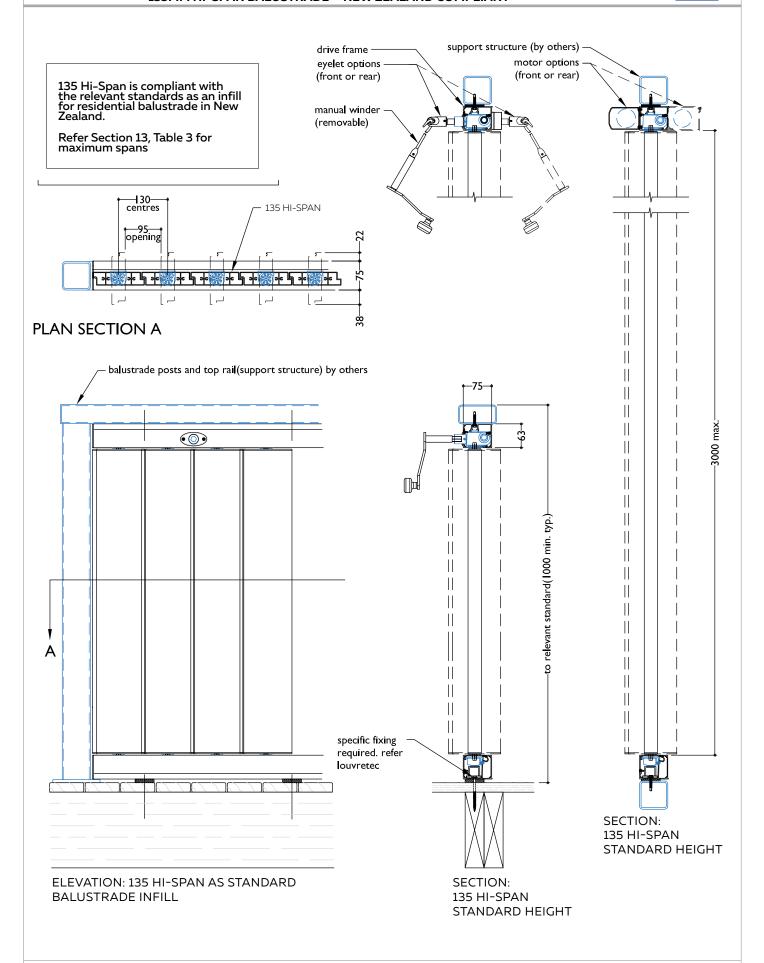
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.39

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## TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 135MM HI-SPAN BALUSTRADE - NEW ZEALAND COMPLIANT









### OVERVIEW SPIRAL PIVOT OPERABLE OR END FIXED 165MM HI-SPAN BALUSTRADE LOUVRES



165MM HI-SPAN LOUVRES AS BALUSTRADE



SPIRAL PIVOT OPERABLE 165MM HI-SPAN BALUSTRADE LOUVRE CAN ALSO BE END FIXED

## 165MM HI-SPAN BALUSTRADE LOUVRES

### Operable Balustrades

The 165mm Hi-Span louvre has been designed to provide an operable Spiral pivoting louvre suitable to be used as a balustrade system in Australia.

The louvre is to be used as an infill panel only and does not include structural horizontal or vertical balustrade supports. Structural balustrade support by others.

### Balustrade - Technical details

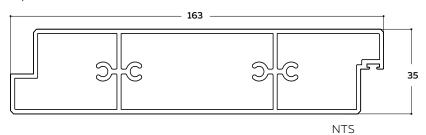
# NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

This is a general guideline outlining some key requirements as at the time of printing. Please confirm all details with your local regulatory authority prior to balustrade installation.

- 1. A barrier is required when someone could fall vertically 1m or more.
- 2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
- 3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over the balustrade or fall through.
- 4. In NZ the maximum opening between balustrade verticals is 100mm.
- 5. In Australia the maximum opening between balustrade verticals is 125mm.

## 165MM HI-SPAN BALUSTRADE LOUVRES

### Operable Balustrades



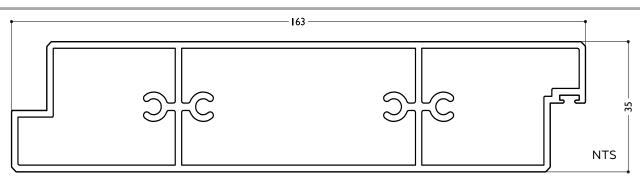
165MM HI-SPAN BALUSTRADE LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.42





## BLADE SPECIFICATIONS 165MM HI-SPAN BALUSTRADE LOUVRES (NOTE ACTUAL BLADE WIDTH 163MM)



BLADE SPECIFICATIONS			
Blade cover - opening system	155 mm	Weight per linear metre - opening system	2.556 kg/lm
Weight per square metre - opening system	16.4 kg/sqm	Actual blade width	163 mm
Blade centres - opening system	155 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	4950	4500	4500	4200	3800	3500
Adjustable & Fixed - Balustrade	3300	3300	3300	3300	3300	3300

### **INSTALLATION OPTIONS**



# SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

### STEP 1

16 blades x 150	2480
1 blade at 163	163
17 blades	=2643

STEP 2

Blade cover 2643

+ top and bottom closing

angles allow for

5mm + 5mm 10

Total exact opening height = 2655\*

\*This is inside measure - not outer frame size

# TECHNICAL DETAILS BALUSTRADES NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

This is a general guideline outlining some key requirements as at the time of printing. Please confirm all details with your local regulatory authority prior to balustrade installation.

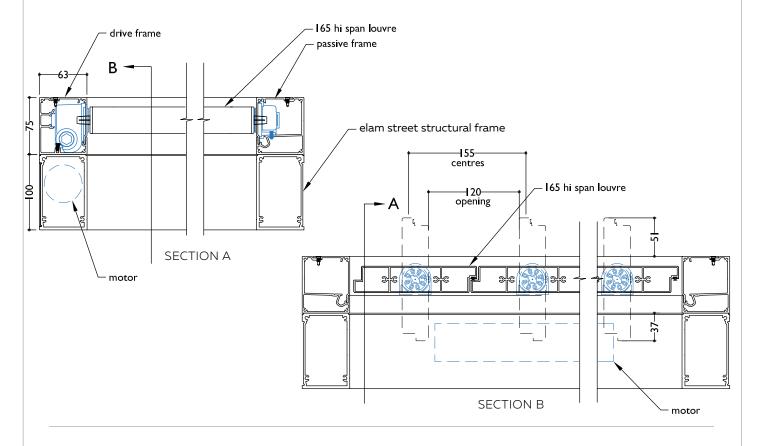
- 1. A barrier is required when someone could fall vertically 1m or more.
- 2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
- 3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over the balustrade or fall through.
- 4. In NZ the maximum opening between balustrade verticals is 100mm.
- 5. In Australia the maximum opening between balustrade verticals is 125mm.



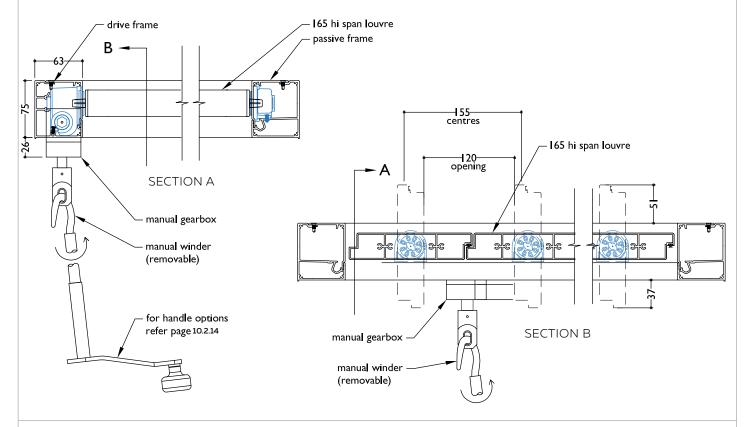


#### AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

SECTION - MOTORISED 165MM HI-SPAN LOUVRE SPIRAL PIVOT ON ELAM STREET STRUCTURAL FRAME



### SECTION - MANUALLY OPERABLE 165 HI-SPAN LOUVRE SPIRAL PIVOT INSERT PANEL FOUR SIDED FRAME



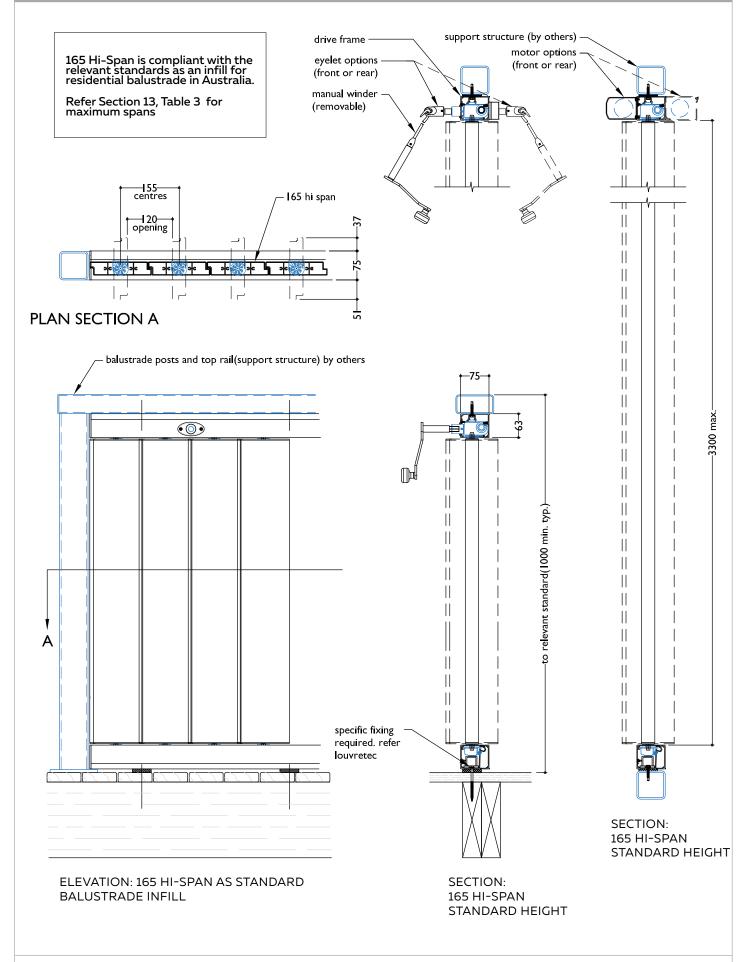
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.43

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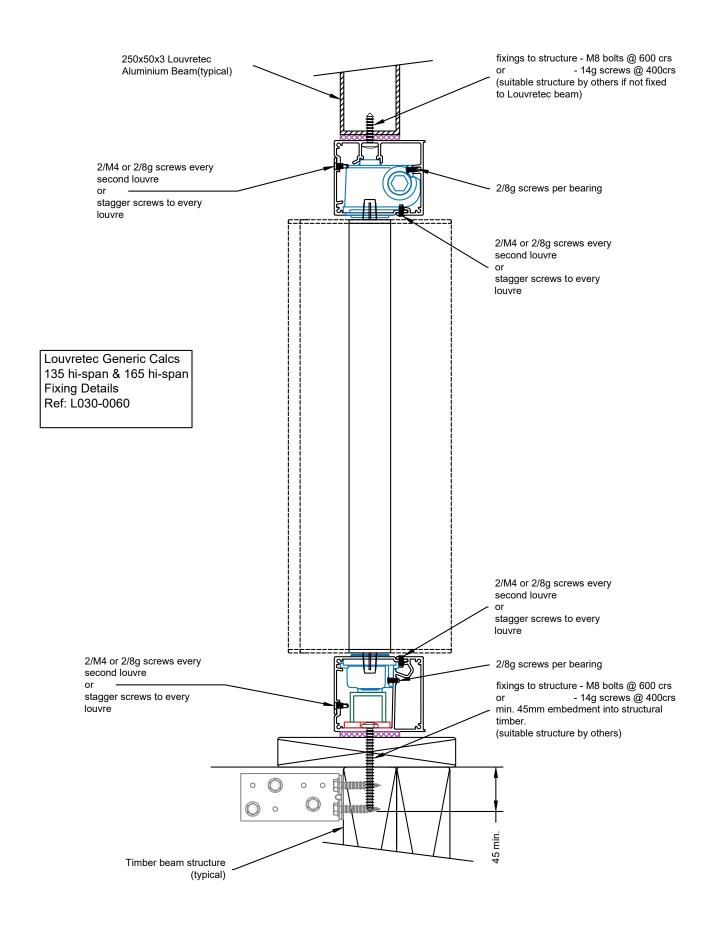
## TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 165MM HI-SPAN BALUSTRADE LOUVRE - AUSTRALIAN COMPLIANT













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1.300MM MAXI LOUVRE VERTICAL PANEL 2.300MM MAXI LOUVRE BLADES MOTORISED CLOSED 3.300MM MAXI LOUVRES MOTORISED OPEN
4.300MM MAXI LOUVRES MOTORISED CLOSED 5.300 MAXI LOUVRE MOTORISED
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## SUN LOUVRES MAXI-DRIVE PIVOT SYSTEM MOTORISED PANEL 300MM MAXI LOUVRE



300MM MAXI DRIVE LOUVRE BLADE, FIXED, TIMBER LOOK POWDERCOAT



VERTICAL SUN LOUVRES FITTED INTO A FRAME

### 300MM MAXI LOUVRE

### Elliptical shape

The 300mm Maxi Louvre is available in a motorised option using Louvretec's Maxi-Drive Pivot System.

This pivot system hides both the motor and pivot mechanism within a structural aluminium support frame.

Powered by Somfy, Maxi-Drive incorporates both a reduction gearbox and supporting drive arm, providing strength needed for pivoting large blade louvres. Ideal for both residential and commercial applications.

The 300mm Maxi Louvre is also available End Fixed or Bracket fixed. horizontal or vertical.

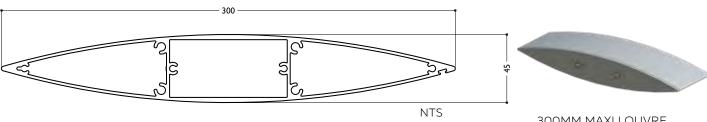
Please note, our RL300 and RL450 Louvres are also compatible with the Maxi Drive system. Please contact your local Louvretec Dealer for more information. We are focused on meeting your needs with tailored



MOTORISED LOUVRE BLADES

## 300MM MAXI LOUVRE

Elliptical shape



REFER TECHNICAL DETAILS PAGE 10.3.04

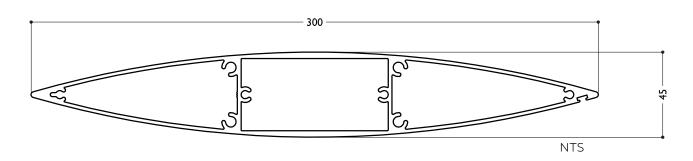


300MM MAXI LOUVRE

### SUN LOUVRES MAXI DRIVE



### **BLADE SPECIFICATIONS 300 MAXI LOUVRE**



BLADE SPECIFICATIONS			
Blade cover - opening system	288 mm	Weight per linear metre - opening system	5.66 kg/lm
Weight per square metre - opening system	19.64 kg/sqm	Actual blade width	300 mm
Blade centres - opening system	288 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	4800	4800	4800	4200	3700	3350

### INSTALLATION OPTIONS



# MAXI DRIVE SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

Width: Check engineering limits

Height: Calculation example showing 17 blades

### STEP 1

 16 blades x 288
 4608

 1 blade at 300
 300

 17 blades
 =4908

STEP 2

Blade cover 4908

+ top and bottom closing

angles allow for

5mm + 5mm 10

Total exact opening height =4918\*



MOTORISED 300 MAXI LOUVRE

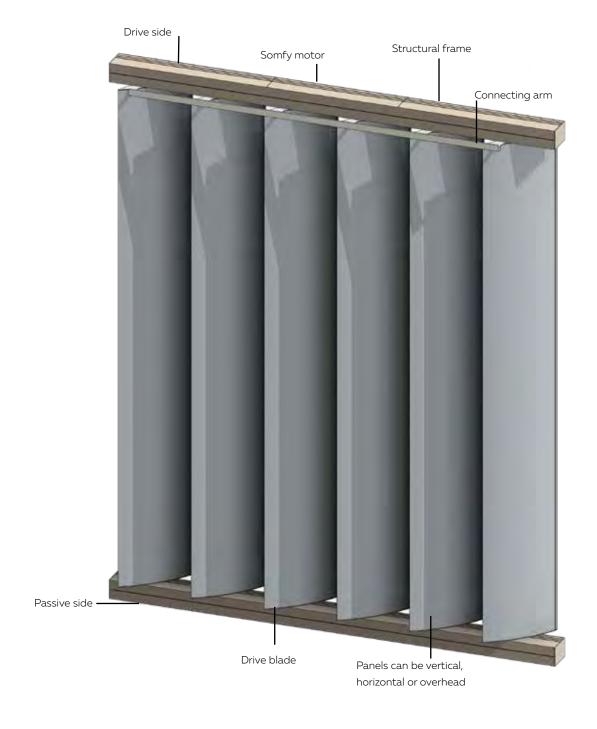


HAND OPERABLE 300 MAXI LOUVRE

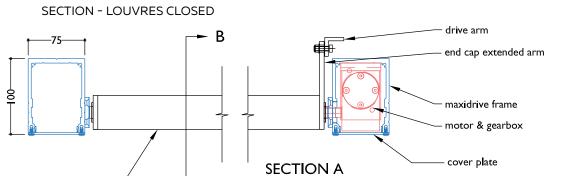


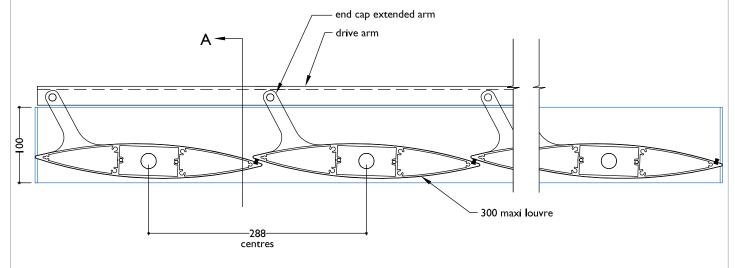
### TECHNICAL DETAILS 300MM MAXI DRIVE PIVOT SYSTEM

### TYPICAL DETAIL 300MM MAXI DRIVE - VERTICAL MOTORISED PANEL



## TYPICAL DETAIL: MAXI DRIVE LOUVRES 300MM MAXI DRIVE - MOTORISED

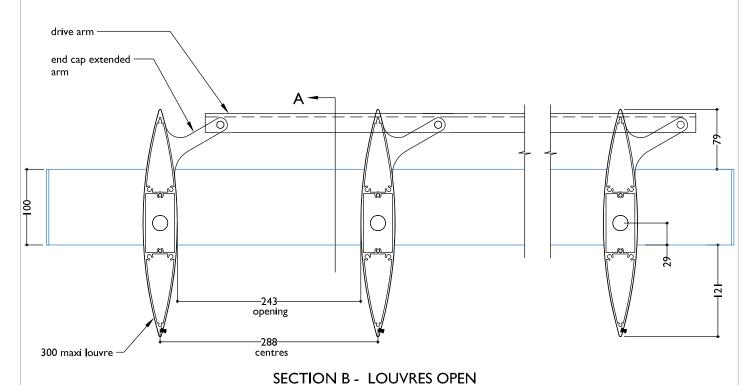


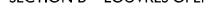


### **SECTION B - LOUVRES CLOSED**

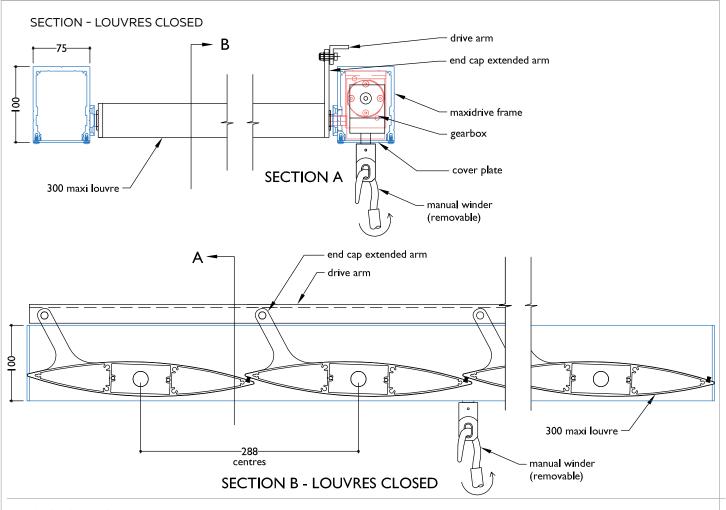
### SECTION - LOUVRES OPEN

300 maxi louvre

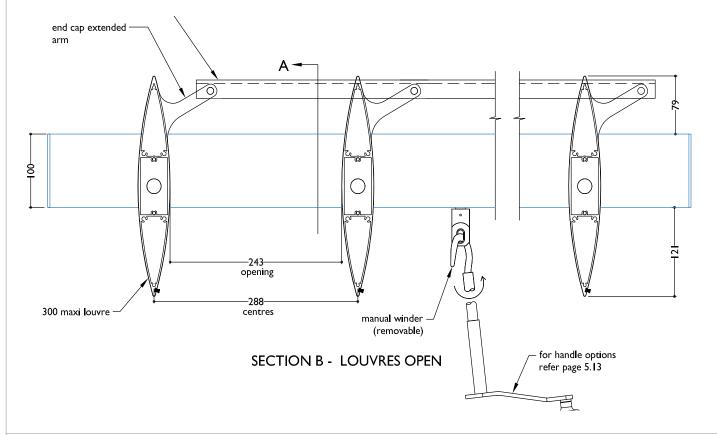




## TYPICAL DETAIL: MAXI DRIVE LOUVRES 300MM MAXI DRIVE - HAND OPERABLE



### SECTION - LOUVRES OPEN



SCALE: DATE MODIFIED: 01/06/2024 FILE:SUN LOUVRES Maxi Drive 10.3.07

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#### **END FIXED SUN LOUVRES**

Gallery and Overview	10.4.02 - 10.4.03
End Fixed Vertical Louvre Infills	10.4.04
End Fixed Overhead Panels	10.4.05
Louvre Range overview	10.4.06 - 10.4.07
Group 1 Louvres: 90mm Midi & 95mm Bella Vistas	10.4.08 - 10.4.11
Group 2 Louvres: 135mm & 165mm Hi-Spans	10.4.12 - 10.4.15
Group 3 Louvres: 120mm, 180mm Airfoils &	10.4.16 - 10.4.23
150mm Midi, 200mm Maxi	
Group 4 Louvres: 150mm Helena Bay &	10.4.24 - 10.4.30
125 & 180 Weatherboards	
Group 5 Louvres: 300mm, 600mm Maxis	10.4.31 - 10.4.36
Group 6 Louvres: RL300, RL450, RL600	10.4.38 - 10.4.46
Square & Mitred Louvres	
End Fixed Chimney Surrounds	10.4.47 - 10.4.48

#### SUN LOUVRES END FIXED GALLERY











1. END FIXED 200MM MAXI LOUVRE VERTICAL PANEL 2. END FIXED 90MM MIDI LOUVRES AS EYEBROW 3. END FIXED 180MM AIRFOIL LOUVE PANEL

#### **APPLICATION OVERVIEW** END FIXED OPTIONS FOR SUN LOUVRES

## **END FIXED SUN LOUVRES**

#### Fix blades Vertically or Horizontally

All Louvretec sun louvres can be End Fixed and all have internal screw fixing ports which allow the blades to be end fixed, set at any pitch and any centre.

As a rule of thumb blade centres are generally fixed at between 75% - 100% of the blade width.



VERTICAL PANEL END FIXED - HORIZONTAL LOUVRES

#### VERTICAL PANELS END FIXED

- All Louvretec sun louvres have internal screw fixing ports. This enables the blades to be;
  - set at any angle or pitch (blade pitch)
  - set at any centre (blade centre)
- · As a rule of thumb, blade centres are fixed at:
  - between 75% 100% of their width.
    eg: 180mm Airfoil would have a centre between 135mm - 180mm.
- Blade pitch is an equally important consideration in determining the degree of light, shade, privacy and shelter.



OVERHEAD PANEL END FIXED - HORIZONTAL LOUVRES

#### OVERHEAD PANELS END FIXED

- Horizontal or Overhead louvres may fit within an existing opening or as illustrated may require a separate structural sub-frame.
- Sub-frames are typically aluminium or steel and usually require specific engineering details.
- Louvretec specialises in the supply and installation of aluminium structural sub-frames.
- · Please contact Louvretec for further details.

## VERTICAL PANELS END FIXED INFILLS

#### How the system works

- · Blades can be set to any pitch or centre
- · Three typical options are shown:
  - Blade Pitch Up
  - Central
  - Blade Pitch Down
- All Louvretec sun louvres have internal screw fixing ports. This enables the blades to be;
  - set at any angle or pitch (blade pitch)
  - set at any centre (blade centre)
- As a rule of thumb,
  blade centres are fixed at between 75% to 100% of
  their width.
  eg: 180mm Airfoil would have a centre between
  135mm to 180mm.
- Blade pitch is an equally important consideration in determining the degree of light, shade, privacy and shelter.

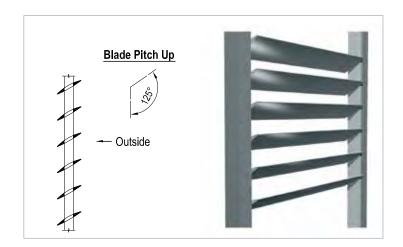


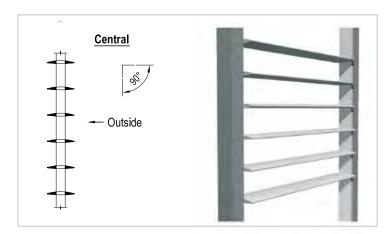
#### LOUVRE BLADES IN RELATION TO FRAME

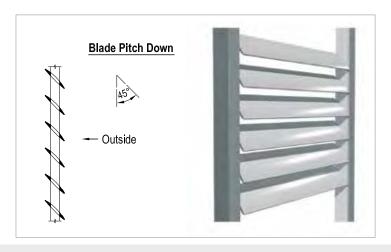
Louvres fit outside of frame,
 Louvres fit within frame,
 End Caps required
 End Caps required

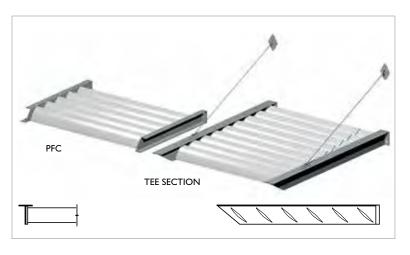








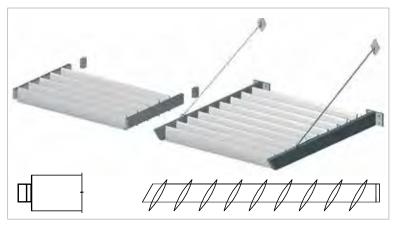




# OVERHEAD PANELS END FIXED INFILLS

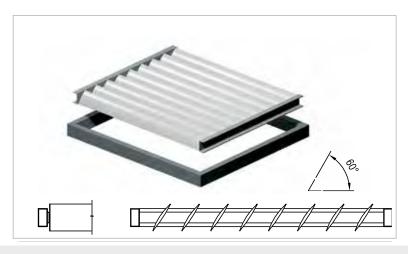
## How the system works

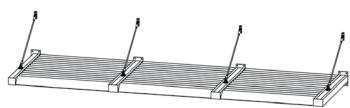
- Horizontal or Overhead louvres may fit within an existing opening or as illustrated may require a separate structural sub-frame.
- Sub-frames are typically aluminium or steel and usually require specific engineering details.
- Engineering is usually also required for the fixing details to the building.





Louvretec specialises in the supply and installation of aluminium structural sub-frames.





All louvre panels shown can be joined to create one continuous panel.

#### APPLICATION OVERVIEW GROUPED END FIXED LOUVRES AT GLANCE

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



LOW WIND SPEED C



## THE LOUVRETEC RANGE OF END FIXED SUN LOUVRES

6 Groups of Sun Louvres. All Louvretec Sun Louvres can be End Fixed IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER. WE'RE FOCUSED TO MEETING YOUR NEEDS WITH TAILORED SOLUTIONS.

GROUP	LOUVRE	MAXIMUM SPANS
	90 MIDI LOUVRE	1400MM EX HIGH
END FIXED  GROUP 1	95 BELLA VISTA	1450MM EX HIGH
	95 BELLA VISTA HEAVY	1900MM EX HIGH
END FIXED	135 HI SPAN LOUVRE	3500MM EX HIGH
GROUP 2	165 HI SPAN LOUVRE	3500MM EX HIGH
	135 HI SPAN BALUSTRADE LOUVRE	3000MM EX HIGH
	165 HI SPAN BALUSTRADE LOUVRE	3300MM HIGH
	120 AIRFOIL LOUVRE	1600MM EX HIGH
END FIXED	150 MIDI LOUVRE	1900MM EX HIGH
GROUP 3	180 AIRFOIL LOUVRE	2050MM EX 1050MM LOW
	200 MAXI LOUVRE	2350MM EX HIGH

#### APPLICATION OVERVIEW GROUPED END FIXED LOUVRES AT A GLANCE

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



## THE LOUVRETEC RANGE OF END FIXED SUN LOUVRES

6 Groups of Sun Louvres. All Louvretec Sun Louvres can be End Fixed IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER. WE'RE FOCUSED TO MEETING YOUR NEEDS WITH TAILORED SOLUTIONS.

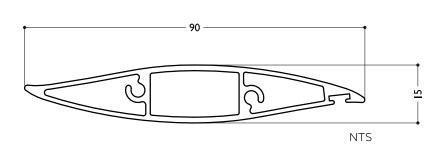
GROUP	LOUVRE	MAXIMUM SPANS
	150MM HELENA BAY	2050MM EX HIGH
END FIXED GROUP 4	125MM WEATHERBOARD PANEL	1750MM EX HIGH
	180MM WEATHERBOARD PANEL	2100MM EX HIGH
END FIXED	300 MAXI LOUVRE	3350MM EX HIGH
GROUP 5	600 MAXI LOUVRE	3700MM EXHIGH
	RL300 MITRE LOUVRE	4050MM EX HIGH
	RL450 MITIRE LOUVRE	4050MM EX HIGH
END FIXED	RL600 MITRE LOUVRE	4050MM EX HIGH
GROUP 6	RL300 SQUARE LOUVRE	4050MM EX HIGH
	RL450 SQUARE LOUVRE	4050MM EX HIGH
	RL600 SQUARE LOUVRE	4050MM EX HIGH

## **GROUP 1 LOUVRES**

Small to Medium size louvres: 90mm Midi, 95 Bella Vista, 95 Bella Vista Heavy

## 90MM MIDI LOUVRE

Small to medium size

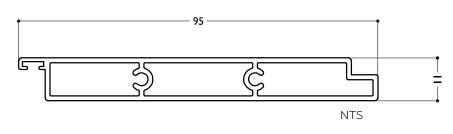




REFER TECHNICAL DETAILS PAGES 10.1.06

## 95MM BELLA VISTA

A rectangular option for infills

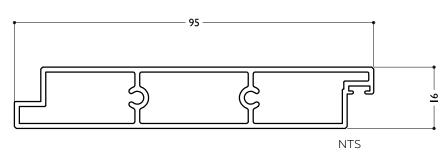




REFER TECHNICAL DETAILS PAGES 10.1.10

## 95MM BELLA VISTA HEAVY

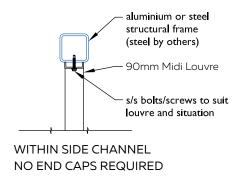
Ideal for exposed locations





REFER TECHNICAL DETAILS PAGES 10.1.11

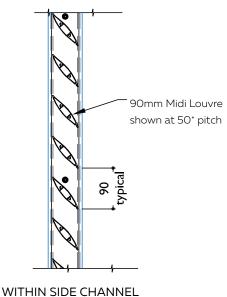




## SECTION IN CHANNEL



OVERHEAD END FIXED PANEL -90MM MIDI HORIZONTAL LOUVRES



NO END CAPS REQUIRED

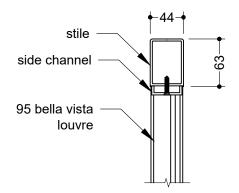
#### TYPICAL DETAIL: END FIXED 95MM BELLA VISTA

(GROUP 1 LOUVRES COLLECTION)

#### TYPICAL DETAIL: END FIXED 95MM BELLA VISTA HEAVY

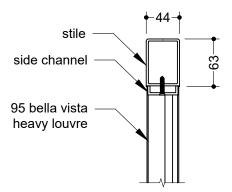
(GROUP 1 LOUVRES COLLECTION)

**PLAN** 

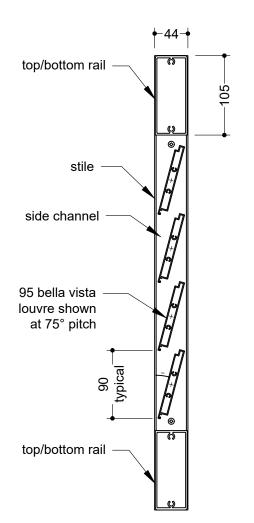


END FIXED 95MM BELLA VISTA IN DOOR PANEL

**PLAN** 

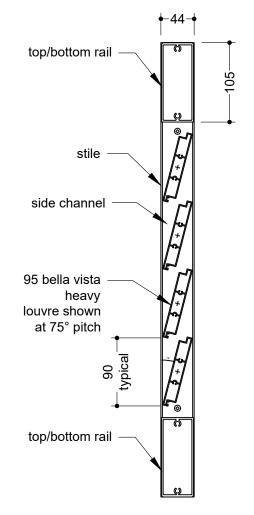


END FIXED 95MM BELLA VISTA HEAVY IN DOOR PANEL



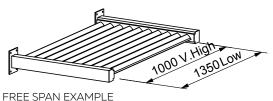
END FIXED 95MM BELLA IN DOOR PANEL

**SECTION** 



END FIXED 95MM BELLA VISTA HEAVY IN DOOR PANEL

#### TYPICAL DETAIL: END FIXED OVERHEAD SUN LOUVRES SPANS AT A GLANCE: 90MM MIDI, 90MM BELLA VISTA, 95MM BELLA VISTA HEAVY



Spans, End Fixed 90mm Midi Louvre

#### CALCULATIONS FOR BLADE SPANS SHOW RANGE FROM:

Low Wind Zone 115km/h, 32m/s to Extra High Wind Zone 198km/h, 55 m/s Refer Engineering Details. Section 13

KEY

LF = Free span

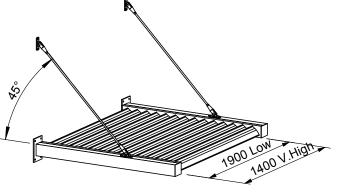
LS15 = Strut @ 15° LS30 = Strut @ 30°

LS45 = Strut @ 45°

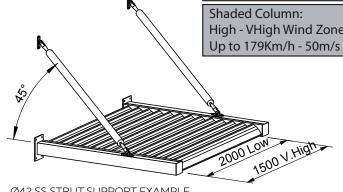
Plain Column:

Low - Med Wind Zone. Up to 133Km/h - 37m/s

High - VHigh Wind Zone.



Ø20 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle Spans, End Fixed 90mm Midi Louvre

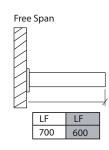


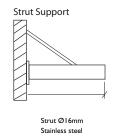
Ø42 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle Spans, End Fixed 90mm Midi Louvre

#### TYPICAL DETAIL: END FIXED OVERHEAD WALL STRUTS 90MM MIDI | 95MM BELLA VISTA | 95MM BELLA VISTA HEAVY (GROUP 1 LOUVRES COLLECTION)



Base Plate: 100 x 150 x 6mm Box Section:  $75 \times 50 \times 2.5$ mm Channel: 75 x 25 x 3mm



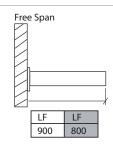


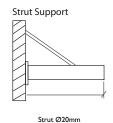
LS15 LS15 900 1100 LS30 LS30 1100 1000

LS45 LS45 1300 1000



100 x 225 x 6mm Base Plate: Box Section: 100 x 50 x 3mm Channel: 100 x 25 x 3mm





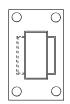
Stainless steel

LS15 LS15 1400 1200 LS30 LS30

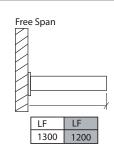
1 \$45 LS45 1700 1400

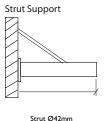
1300

1700



Base Plate: 100 x 275 x 6mm Box Section: 150 x 50 x 3mm 100 x 25 x 3mm Channel:





Stainless steel

LS15 LS15 2000 1600 LS30

LS30 2100 1900

LS45 LS45 2300 2000

DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES END FIXED 10.4.11 www.louvretec.com.au

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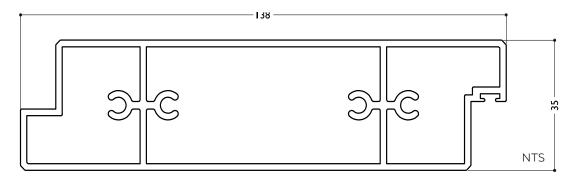


## **GROUP 2 LOUVRES**

Medium size Rectangular louvres: 135 Hi-Span, 165 Hi-Span

## 135MM HI-SPAN BALUSTRADE LOUVRES

Operable or end fixed balustrade louvres



REFER TECHNICAL DETAILS PAGE 10.2.38



## NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM



VERTICAL END FIXED PANEL -135MM HI-SPAN HORIZONTAL LOUVRES

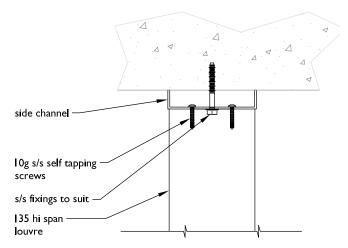


VERTICAL END FIXED PANEL 135MM HI-SPAN VERTICAL LOUVRES

## ¥€ ⊹

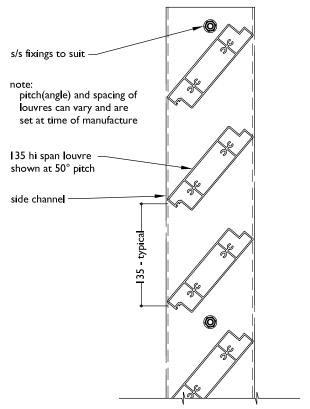
#### NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

#### PLAN - END FIXED 135 HI-SPAN LOUVRE



END FIXED 135 HI-SPAN LOUVRE

#### SECTION - END FIXED 135MM HI-SPAN LOUVRE



END FIXED 135 HI-SPAN LOUVRE

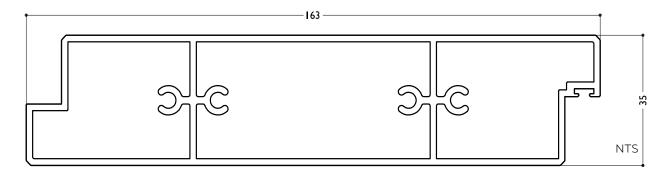
LouvreTec®

## **GROUP 2 LOUVRES**

Medium size Rectangular louvres: 135 Hi-Span, 165 Hi-Span

## 165MM HI-SPAN BALUSTRADE LOUVRES

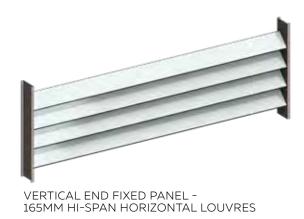
Operable or end fixed balustrade louvres



REFER TECHNICAL DETAILS PAGE 10.2.42



## AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

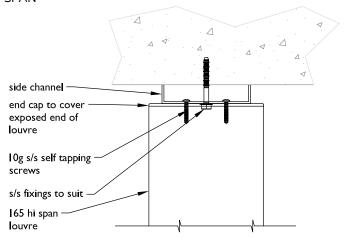




VERTICAL END FIXED PANEL -165MM HI-SPAN VERTICAL LOUVRES

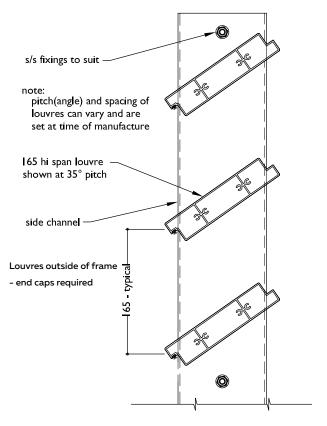
## AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

#### PLAN - END FIXED 165 HI-SPAN



END FIXED 165 HI-SPAN LOUVRE

#### SECTION - END FIXED 165 HI-SPAN LOUVRE



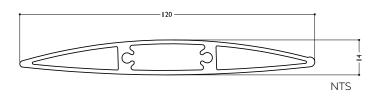
END FIXED 165 HI-SPAN LOUVRE

## **GROUP 3 LOUVRES**

Medium size Airfoil louvres: 120mm Airfoil, 180mm Airfoil, 150 Midi, 200 Maxi

## 120MM AIRFOIL LOUVRE

A wide range of design applications

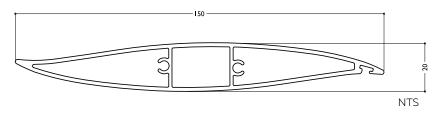




REFER TECHNICAL DETAILS PAGES 10.2.18

## 150MM MIDI LOUVRE

A wave shaped louvre





REFER TECHNICAL DETAILS PAGES 10.2.23

## 180MM AIRFOIL LOUVRE

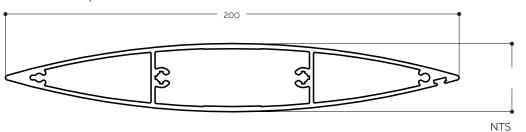






## 200MM MAXI LOUVRE

Most specified Maxi Louvre



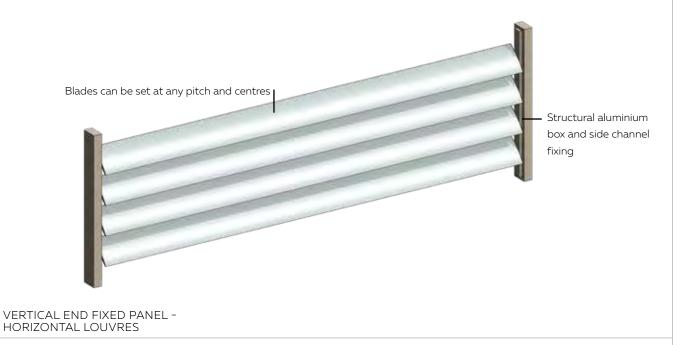


REFER TECHNICAL DETAILS PAGES 10.2.25

#### **TYPICAL DETAIL: END FIXED VERTICAL & OVERHEAD PANELS**

(GROUP 3 LOUVRES COLLECTION)







OVERHEAD END FIXED PANEL -HORIZONTAL LOUVRES

DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES END FIXED 10.4.17

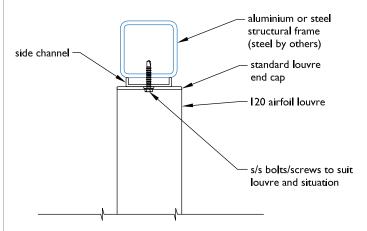
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SCALE:

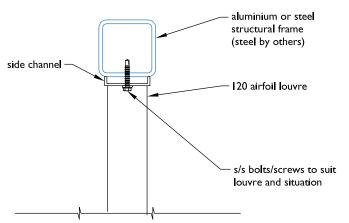
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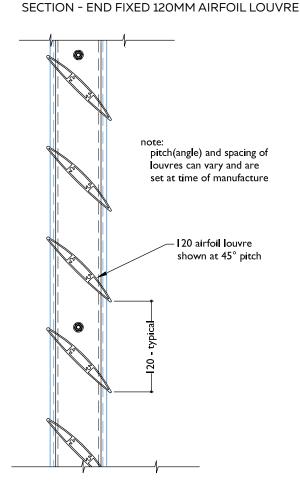
#### PLAN - END FIXED 120MM AIRFOIL LOUVRE



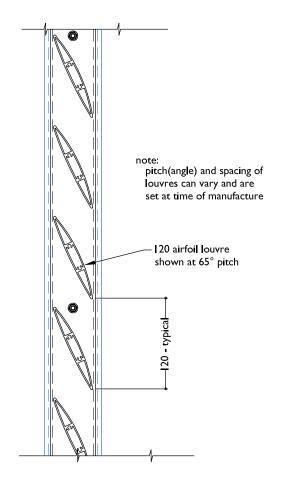
Louvres outdside channel - end caps required



Louvres within side channel - no end caps required

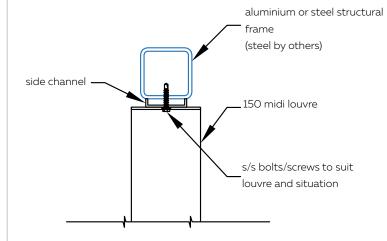


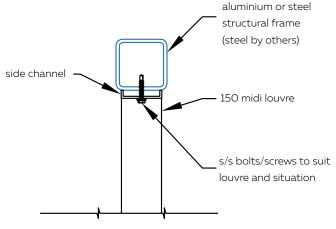
Louvres outside side channel - end caps required



Louvres within side channel - no end caps required

#### PLAN - END FIXED 150MM MIDI LOUVRE

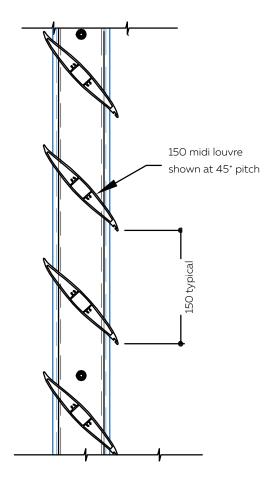




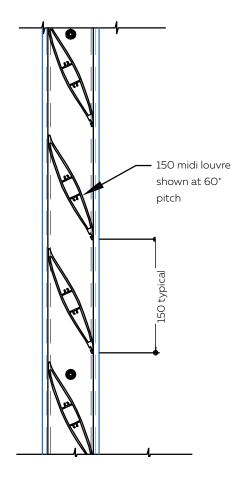
Louvres outside side channel - end caps required

Within side channel - no end caps required

#### SECTION - END FIXED 150MM MIDI LOUVRE



Louvres outside side channel - end caps required



Within side channel - no end caps required

SCALE: www.louvretec.co.nz

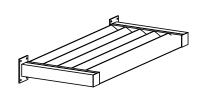
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES END FIXED 10.4.19

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#### **TYPICAL DETAIL: END FIXED OVERHEAD SUN LOUVRES** SPANS AT A GLANCE 120MM AIRFOIL & 150MM MIDI LOUVRES (GROUP 3 LOUVRES COLLECTION)



FREE SPAN EXAMPLE

#### CALCULATIONS FOR BLADE SPANS SHOW RANGE FROM:

Low Wind Zone 115km/h, 32m/s to Extra High Wind Zone 198km/h, 55 m/s Refer Engineering Details. Section 13

**KEY** 

LF = Free span

LS15 = Strut @ 15°

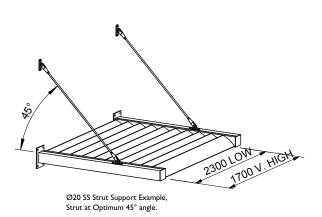
LS30 = Strut @ 30°

 $LS45 = Strut @ 45^{\circ}$ 

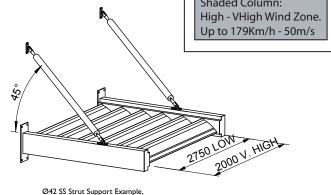
Plain Column:

Low - Med Wind Zone. Up to 133Km/h - 37m/s

Shaded Column:



Ø20 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle SPANS; END FIXED 120mm AIRFOIL LOUVRE



Ø42 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle

SPANS; END FIXED 150mm MIDI LOUVRE

Strut at Optimum 45° angle.

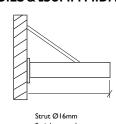
#### TYPICAL DETAIL: END FIXED OVERHEAD WALL STRUTS SPANS AT A GLANCE 120MM AIRFOILS & 150MM MIDI LOUVRES (GROUP 3 LOUVRES COLLECTION)



Box Section:  $75 \times 50 \times 2.5$ mm 75 x 25 x 3mm

Base Plate: 100 x 150 x 6mm

LF LF 500 600



LS15 LS15 800 1000

LS30 LS30 1100 900

LS45 LS45 1100 900

LS15

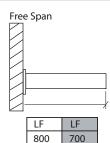
1000

LS30

1200



Base Plate: 100 x 225 x 6mm Box Section: 100 x 50 x 3mm Channel: 100 x 25 x 3mm



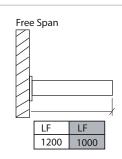
Strut Support Strut Ø20mm

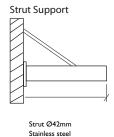
LS15 1200 LS30 1400

> LS45 LS45 1500 1200

 $\bigcirc$ 0  $\bigcirc$  $\bigcirc$ 

100 x 275 x 6mm Box Section: 150 x 50 x 3mm 100 x 25 x 3mm Channel:





Stainless steel

I \$15 LS15 1700 1300

LS30 LS30 1800 1600

LS45 LS45 2000 1700

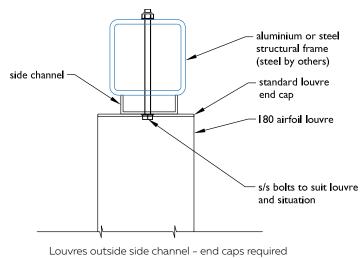


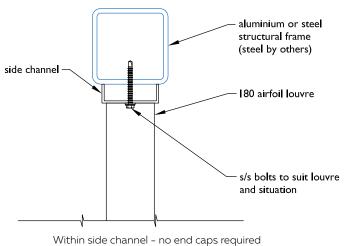
FILE: SUN LOUVRES END FIXED 10.4.20

DATE MODIFIED: 01/10/2024 SCALE: www.louvretec.co.nz www.louvretec.com.au

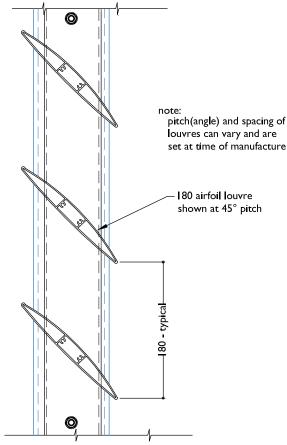
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#### PLAN - END FIXED 180MM AIRFOIL LOUVRE

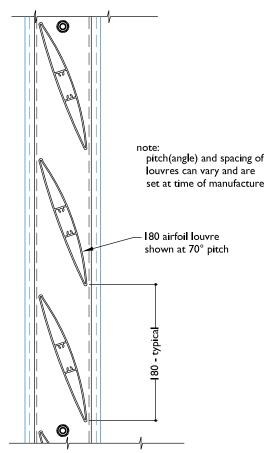




#### SECTION - END FIXED 180MM AIRFOIL LOUVRE

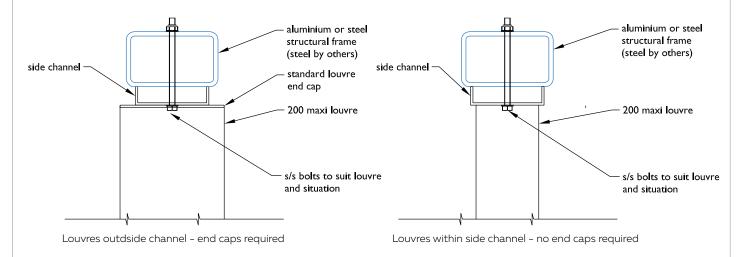




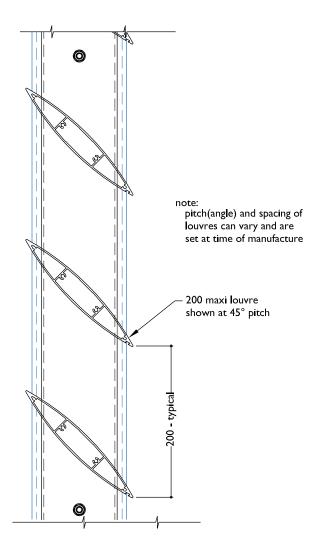


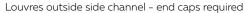
Within side channel - no end caps required

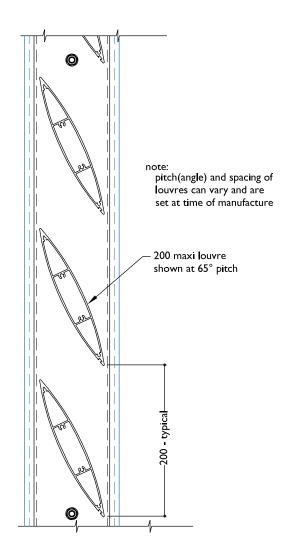
#### PLAN - END FIXED 200 MAXI LOUVRE



#### SECTION - END FIXED 200MM MAXI LOUVRE







Louvres within side channel - no end caps required

# FREE SPAN EXAMPLE

## CALCULATIONS FOR BLADE SPANS SHOW RANGE FROM:

Low Wind Zone 115km/h, 32m/s to Extra High Wind Zone 198km/h, 55 m/s Refer Engineering Details. Section 13 KEY

LF = Free span

LS15 = Strut @ 15°

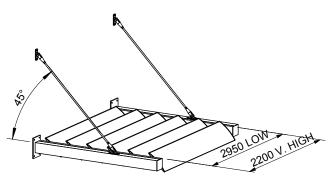
LS30 = Strut @ 30° LS45 = Strut @ 45°

Plain Column:

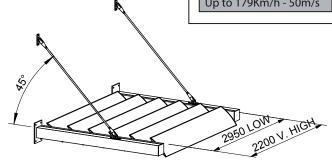
Low - Med Wind Zone. Up to 133Km/h - 37m/s

Shaded Column:

High - VHigh Wind Zone. Up to 179Km/h - 50m/s



Ø20 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle Spans, End Fixed 180mm Airfoil Louvre

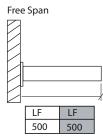


Ø42 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle Spans, End Fixed 200mm Midi Louvre

## TYPICAL DETAIL: END FIXED OVERHEAD WALL STRUTS 180MM AIRFOIL | 200MM MAXI LOUVRES SPANS AT A GLANCE (GROUP 3 LOUVRES COLLECTION)



Base Plate: 100 x 150 x 6mm Box Section: 75 x 50 x 2.5mm Channel: 75 x 25 x 3mm



Strut Support

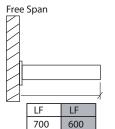
Strut Ø16mm
Stainless steel

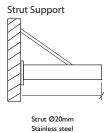
LS15 LS15 800 600 LS30 LS30 900 700

LS45 LS45 900 700



Base Plate:  $100 \times 225 \times 6$ mm Box Section:  $100 \times 50 \times 3$ mm Channel:  $100 \times 25 \times 3$ mm

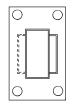




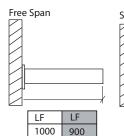
LS15	LS15
1000	800
1000	800

LS30	LS30
1200	1000

LS45	LS45
1200	1000



Base Plate:  $100 \times 275 \times 6$ mm Box Section:  $150 \times 50 \times 3$ mm Channel:  $100 \times 25 \times 3$ mm



Strut Support

Strut Ø42mm

LS15	LS15
1300	1100

LS30 LS30 1600 1300

LS45 LS45 1600 1400

CALE: DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES END FIXED 10.4.23

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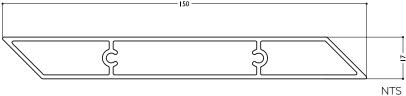
#### SUN LOUVRES END FIXED

## **GROUP 4 LOUVRES**

Weatherboard shaped louvres: 150mm Helena Bay, 125mm Weatherboard Panel, 180mm Weatherboard Panel

## 150MM HELENA BAY 45° FIXED WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade

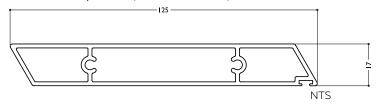


REFER TECHNICAL DETAILS PAGES 10.4.25



## 125MM WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade

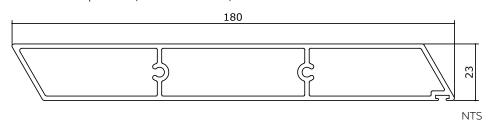


REFER TECHNICAL DETAILS PAGES 10.4.26



## 180MM WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade

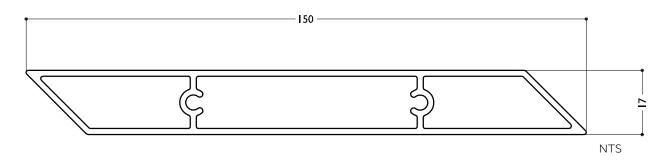


REFER TECHNICAL DETAILS PAGES 10.4.27





#### BLADE SPECIFICATIONS 150MM HELENA BAY 45° FIXED



BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY						
Blade cover - opening system	N/A	Weight per linear metre - opening system	1.5 kg/lm			
Weight per square metre - opening system	N/A	Actual blade width	148 mm			
Blade centres - opening system	N/A					

#### 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	3200	3050	2750	2400	2200	2050

#### INSTALLATION OPTIONS



#### **END FIXED**

Louvres at any pitch Louvres at any centre



END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES



#### **BRACKET FIXED**

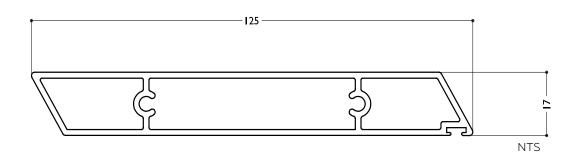
Louvres at any pitch Louvres at any centre



BRACKET FIXED VERTICAL PANEL - HORIZONTAL LOUVRES



#### **BLADE SPECIFICATIONS** 125MM WEATHERBOARD PANEL



BLADE SPECIFICATIONS			
Blade cover - opening system	115 mm	Weight per linear metre - opening system	1.33 kg/lm
Weight per square metre - opening system	12 kg/sqm	Actual blade width	125 mm
Blade centres - opening system	115 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2600	2500	2300	2050	1900	1750

#### **INSTALLATION OPTIONS**



#### **END FIXED**

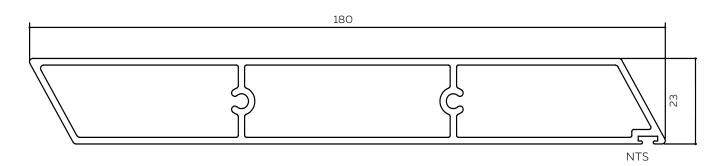


END FIXED VERTICAL PANEL - HORIZONTAL LOUVRES





#### BLADE SPECIFICATIONS 180MM WEATHERBOARD PANEL



BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY					
Blade cover - opening system	169 mm	Weight per linear metre - opening system	2.12 kg/lm		
Weight per square metre - opening system	n 13 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	3200	3050	2800	2500	2300	2100

#### **INSTALLATION OPTIONS**



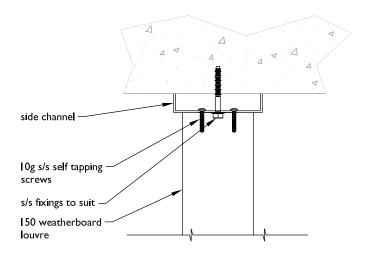
#### **END FIXED**

Louvres at any pitch Louvres at any centre

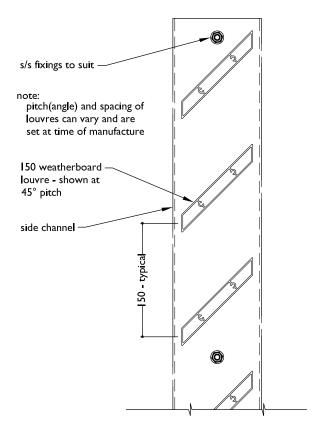


END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES

PLAN - END FIXED 150MM HELENA BAY 45° WEATHERBOARD PANEL

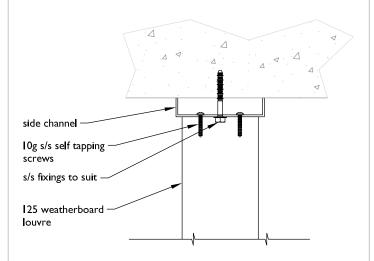


SECTION - END FIXED 150MM HELENA BAY 45° WEATHERBOARD PANEL

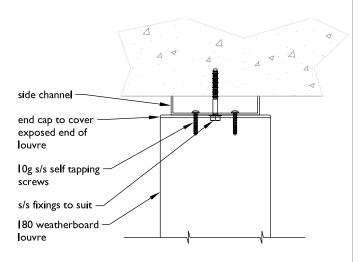


#### TYPICAL DETAIL: END FIXED OVERHEAD SUN LOUVRES (GROUP 4 LOUVRES COLLECTION) SPANS AT A GLANCE 125MM WEATHERBOARD & 180MM WEATHERBOARD PANEL

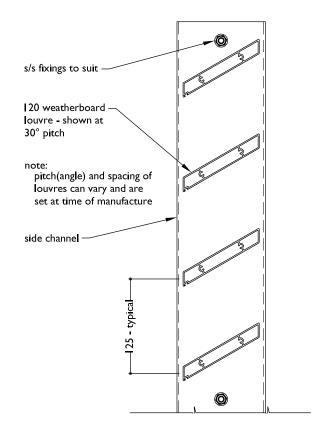
PLAN - END FIXED 125MM WEATHERBOARD **LOUVRE** 



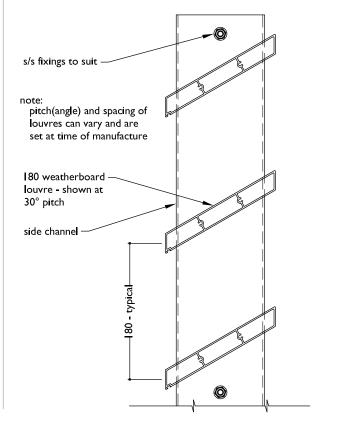
PLAN - END FIXED 180MM WEATHERBOARD LOUVRE



**SECTION - END FIXED** 125MM WEATHERBOARD **LOUVRE** 



**SECTION - END FIXED** 180MM WEATHERBOARD LOUVRE



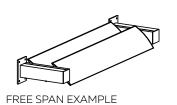
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES END FIXED 10.4.29

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## **TYPICAL DETAIL : END FIXED OVERHEAD SUN LOUVRES** (GROUP 4 LOUVRES COLLECTION) **150MM HELENA BAY 45°, 125MM WEATHERBOARD, 180MM WEATHERBOARD LOUVRES**



## CALCULATIONS FOR BLADE SPANS SHOW RANGE FROM:

Low Wind Zone 115km/h, 32m/s to Extra High Wind Zone 198km/h, 55 m/s Refer Engineering Details. Section 13 KEY

LF = Free span

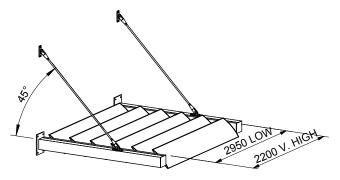
LS15 = Strut @ 15° LS30 = Strut @ 30°

LS45 = Strut @ 45°

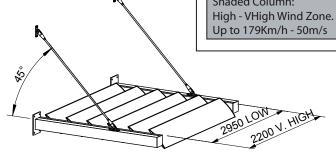
Plain Column:

Low - Med Wind Zone. Up to 133Km/h - 37m/s

Shaded Column:



Ø20 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle Spans, End Fixed 180mm Airfoil Louvre

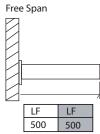


Ø42 SS STRUT SUPPORT EXAMPLE Strut at optimum 45° angle Spans, End Fixed 200mm Midi Louvre

## TYPICAL DETAIL : END FIXED OVERHEAD WALL STRUTS (GROUP 4 LOUVRES COLLECTION) 150MM HELENA BAY, 125MM WEATHERBOARD & 180MM WEATHERBOARD



Base Plate:  $100 \times 150 \times 6$ mm Box Section:  $75 \times 50 \times 2.5$ mm Channel:  $75 \times 25 \times 3$ mm



LF 0 500 Strut Ø16mm Stainless steel

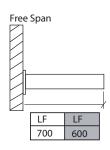
Strut Support

LS15	LS15
800	600
LS30	LS30
LS30 900	LS30 700

LS45	LS45
900	700



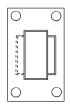
Base Plate:  $100 \times 225 \times 6$ mm Box Section:  $100 \times 50 \times 3$ mm Channel:  $100 \times 25 \times 3$ mm



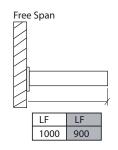


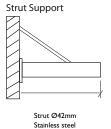
LS15	LS15
1000	800
LS30	LS30
1200	1000

LS45	LS45
1200	1000



Base Plate:  $100 \times 275 \times 6$ mm Box Section:  $150 \times 50 \times 3$ mm Channel:  $100 \times 25 \times 3$ mm





LS15	LS15	
1300	1100	
LS30	LS30	
1600	1300	

LS45	LS45
1600	1400



FILE: SUN LOUVRES END FIXED 10.4.30

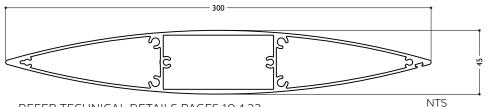
DATE MODIFIED: 01/10/2024 SCALE: www.louvretec.com.au

## **GROUP 5 LOUVRES**

Maxi Louvres: 300mm Maxi Louvre, 600mm Maxi Louvre

## 300MM MAXI LOUVRE

Large Airfoil shaped louvre



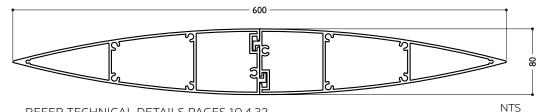
REFER TECHNICAL DETAILS PAGES 10.4.32

BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY



## 600MM MAXI LOUVRE

The largest Airfoil shaped louvre

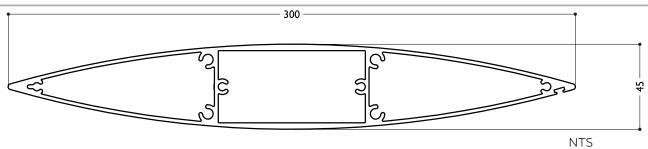


REFER TECHNICAL DETAILS PAGES 10.4.32





#### **BLADE SPECIFICATIONS 300MM MAXI LOUVRE**



BLADE SPECIFICATIONS			
Blade cover - opening system	288 mm	Weight per linear metre - opening system	5.66 kg/lm
Weight per square metre - opening system	19.64 kg/sqm	Actual blade width	300 mm
Blade centres - opening system	288 mm		

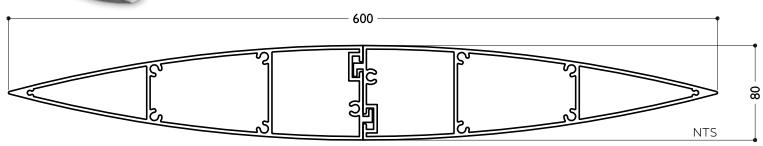
#### SPANS AT A GLANCE

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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	4800	4800	4800	4200	3700	3350



#### **BLADE SPECIFICATIONS** 600MM MAXI LOUVRE

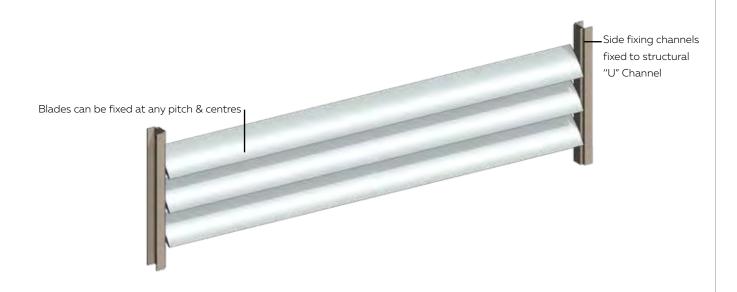


BLADE SPECIFICATIONS			
Blade cover - opening system	588 mm	Weight per linear metre - opening system	14.74 kg/lm
Weight per square metre - opening system	n 24.62 kg/sqm	Actual blade width	600 mm
Blade centres - opening system	588 mm		

#### 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5600	4700	4100	3700



END FIXED VERTICAL PANEL - HORIZONTAL LOUVRES

(GROUP 5 LOUVRES COLLECTION)

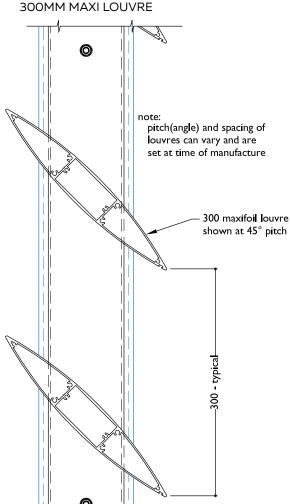
#### TYPICAL DETAIL: END FIXED OVERHEAD PANEL 300MM MAXI LOUVRE

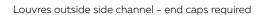


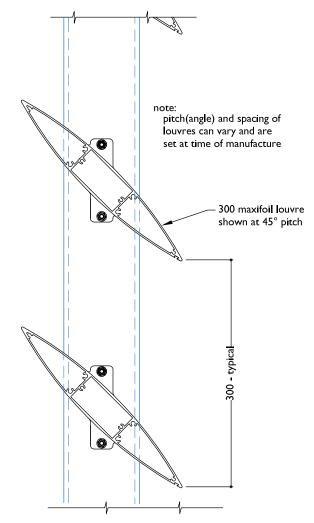
END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES

#### **PLAN END FIXED** 300 MAXI LOUVRE aluminium or steel aluminium or steel structural frame structural frame (steel by others) (steel by others) side channel standard louvre custom louvre end cap end cap /fixing plate 300 maxi louvre 300 maxi louvre s/s bolts to suit louvre s/s bolts to suit louvre and situation and situation On side channel - end caps required On side channel - no end caps required

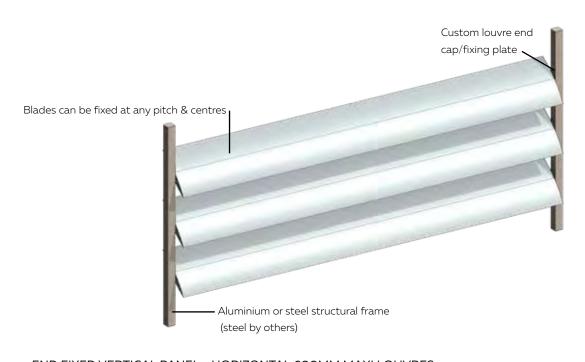
## SECTION END FIXED







Within side channel - no end caps required



END FIXED VERTICAL PANEL - HORIZONTAL 600MM MAXI LOUVRES

(GROUP 5 LOUVRES COLLECTION)

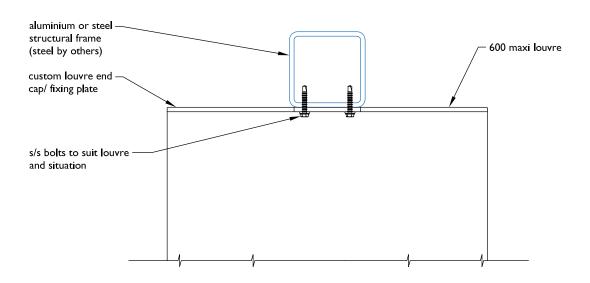
#### TYPICAL DETAIL: END FIXED VERTICAL PANEL **600MM MAXI LOUVRE**



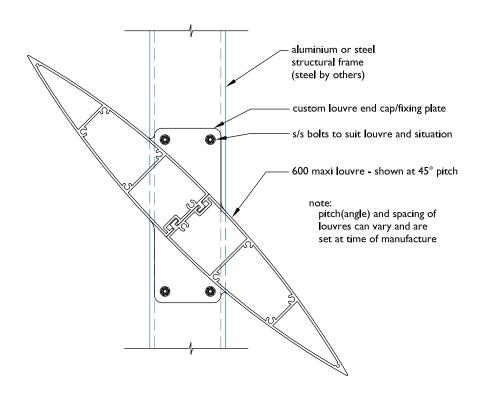
END FIXED VERTICAL PANEL - VERTICAL 600MM MAXI LOUVRES

LouvreTec<sup>®</sup>

#### PLAN END FIXED 600 MAXI LOUVRE



#### SECTION - END FIXED 600MM MAXI LOUVRE



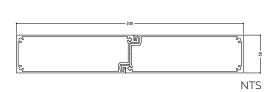


# **GROUP 6 LOUVRES**

Rectangular RL300 SQUARE, RL450 SQUARE, RL 600 SQUARE

# RL300 SQUARE LOUVRE

Rectangular in length with square corners



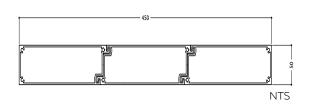
REFER TECHNICAL DETAILS PAGES 10.4.40





# **RL450 SQUARE LOUVRE**

Rectangular in length with square corners



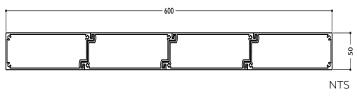
REFER TECHNICAL DETAILS PAGES 10.4.41





# **RL600 SQUARE LOUVRE**

Rectangular in length with square corners



REFER TECHNICAL DETAILS PAGES 10.4.42



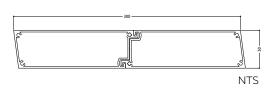


# **GROUP 6 LOUVRES**

Rectangular RL300 MITRE, RL450 MITRE, RL600 MITRE

# RL300 MITRE LOUVRE

Rectangular in length with mitred corners



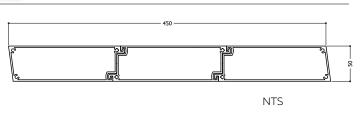
REFER TECHNICAL DETAILS PAGES 10.4.40





# **RL450 MITRE LOUVRE**

Rectangular in length with mitred corners



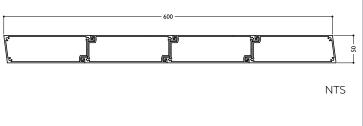
REFER TECHNICAL DETAILS PAGES 10.4.41





# **RL600 MITRE LOUVRE**

Rectangular in length with mitred corners



REFER TECHNICAL DETAILS PAGES 10.4.42

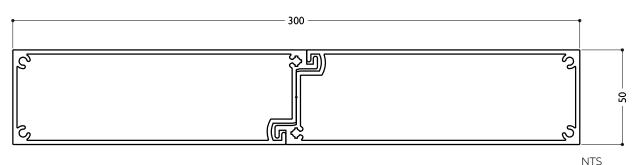




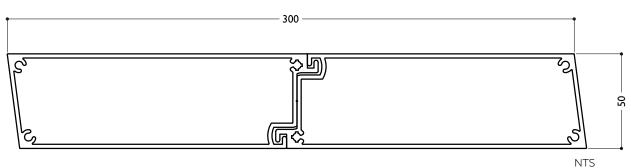
# RL300 SQUARE LOUVRE & RL300 MITRE LOUVRE



## BLADE SPECIFICATIONS RL300 SQUARE & RL300 MITRE LOUVRES



RL300 SQUARE LOUVRE



RL300 MITRE LOUVRE

BLADE SPECIFICATIONS			
Blade cover - opening system	307 mm	Weight per linear metre - opening system	5.45 kg/lm
Weight per square metre - opening system	n 18.5 kg/sqm	Actual blade width	300 mm
Blade centres - opening system	307 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5800	5150	4500	4050

#### **INSTALLATION OPTIONS**



**END FIXED** 

Louvres at any pitch Louvres at any centre

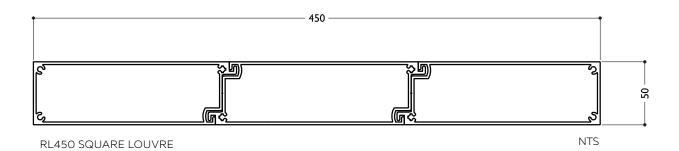


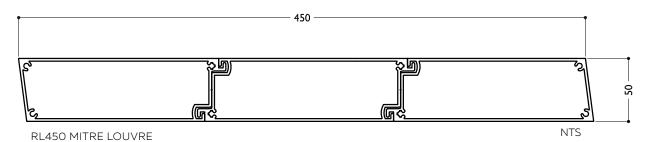
**BRACKET FIXED** 

Louvres at any pitch Louvres at any centre



### BLADE SPECIFICATIONS RL450 SQUARE & RL450 MITRE LOUVRES





BLADE SPECIFICATIONS			
Blade cover - opening system	457 mm	Weight per linear metre - opening system	8.27 kg/lm
Weight per square metre - opening system	n 18.5 sqm	Actual blade width	450 mm
Blade centres - opening system	457 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5800	5150	4500	4050

## INSTALLATION OPTIONS



# END FIXED

Louvres at any pitch Louvres at any centre

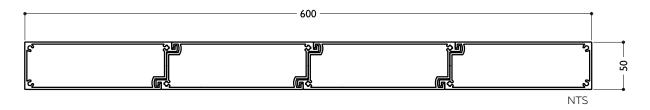


## BRACKET FIXED

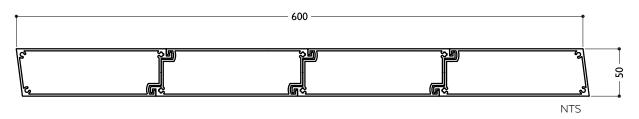
Louvres at any pitch Louvres at any centre

## RL600 SQUARE LOUVRE & RL600 MITRE LOUVRE

## BLADE SPECIFICATIONS RL600 SQUARE & RL600 MITRE LOUVRES



#### **RL600 SQUARE LOUVRE**



### RL600 MITRE LOUVRE

BLADE SPECIFICATIONS			
Blade cover - opening system	607 mm	Weight per linear metre - opening system	11.10 kg/lm
Weight per square metre - opening system	19.0 sqm	Actual blade width	600 mm
Blade centres - opening system	607 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 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5800	5100	4500	4050

#### **INSTALLATION OPTIONS**



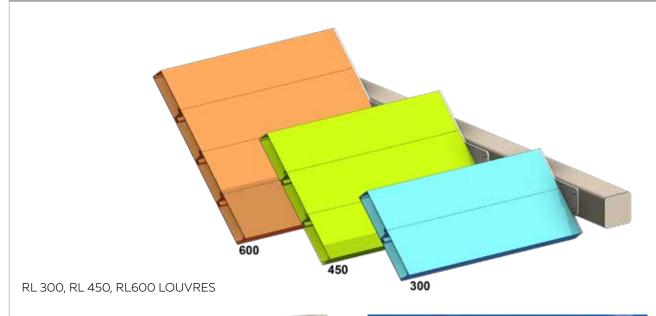
END FIXED

Louvres at any pitch Louvres at any centre



BRACKET FIXED

Louvres at any pitch Louvres at any centre





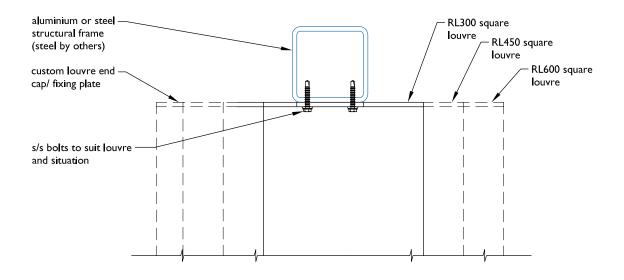


RL600 END FIXED LOUVRE PANEL

RL300 END FIXED LOUVRE PANEL, BRISBANE, QLD AU

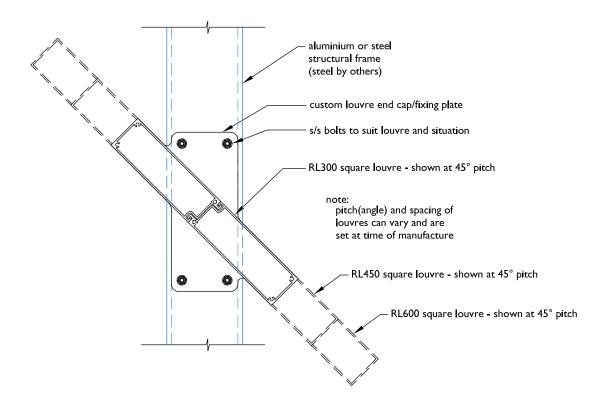
#### **PLAN** END FIXED

RL300 | RL450 | RL600 SQUARE LOUVRES

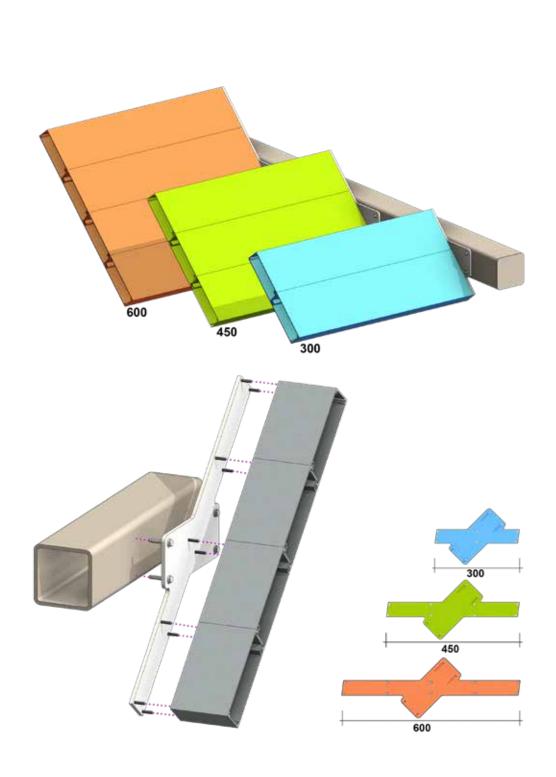


# SECTION END FIXED RL300 | RL450 | RL600 SQUARE LOUVRES

(GROUP 6 LOUVRES COLLECTION)



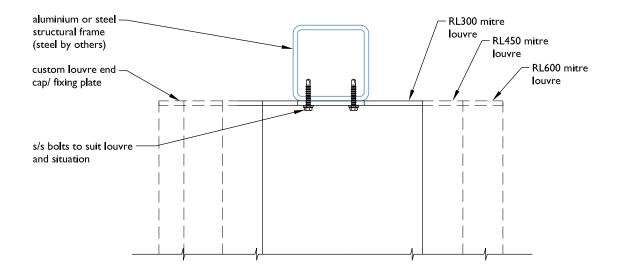




## RL 300, RL 450, RL 600 MITRE LOUVRES

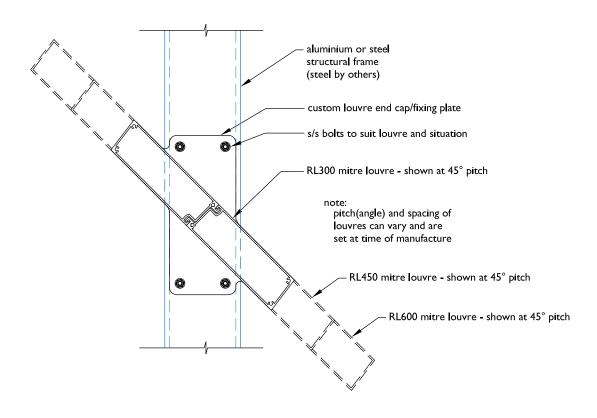
## PLAN END FIXED

### RL300 | RL450 | RL600 MITRE LOUVRES



### **SECTION** END FIXED

### RL300 | RL450 | RL600 MITRE LOUVRES







END FIXED CHIMNEY SURROUND, AUCKLAND

# **CHIMNEY SURROUNDS**

## The cherry on top

There are many options available when designing louvre chimney surrounds. The actual shape or footprint of the surround is largely dictated by the chimney itself.

Determine what size louvre blade will be best suited, both aesthetically and functionally. Wind flow through the louvre blades can assist with the actual venting of the chimney. The surround's support structure can be a combination of aluminium box section, angle or channel. Please discuss with Louvretec.



FINISHING TOUCH



COASTAL LIVING



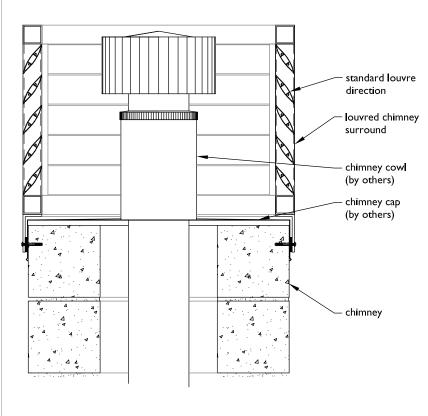
END FIXED CHIMNEY SURROUND WITH BOX SECTION FRAME

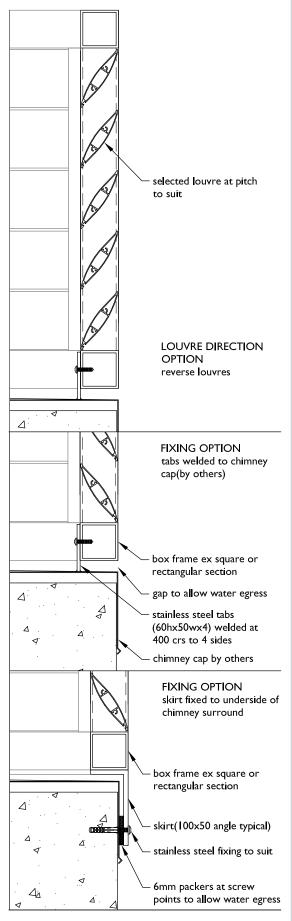


#### TYPICAL DETAIL: END FIXED CHIMNEY SURROUND



#### SECTION- END FIXED LOUVRE CHIMNEY SURROUND













## BRACKET FIXED SUN LOUVRES

Gallery and Overview	10.5.02 - 10.5.03
Bracket Fixed Vertical Louvre Infills	10.5.04
Bracket Fixed Overhead Louvre Panels	10.5.05
Corner Mitres	10.5.06
Support Brackets	10.5.07 - 10.5.08
Louvre range overview	10.5.10 - 10.5.11
Group 1 Louvres: 90mm Midi	10.5.12 - 10.5.16
Group 2 Louvres: 120mm, 180mm Airfoils &	10.5.17 - 10.5.22
150mm Midi Louvre	
Group 3 Louvres: 200mm Maxi Louvre	10.5.23 - 10.5.25
Group 4 Louvres: 300mm Maxi Louvre	10.5.26 - 10.5.28
Group 5 Louvres: 125, 180mm Weatherboard	10.5.29 - 10.5.32
& 150mm Helena Bay Louvre	
Group 6 Louvres: 600mm Maxi Louvre	10.5.33 - 10.5.34
Group 7 Louvres: RL300, RL450,RL600	10.5.35 - 10.5.40
Square & Mitred Louvres	
Bracket Fixed Chimney Surrounds	10.5.41 - 10.5.42







#### **APPLICATION OVERVIEW BRACKET FIXED OPTIONS FOR SUN LOUVRES**

# **BRACKET FIXED SUN LOUVRES**

## Fix blades Vertically or Horizontally

All Louvretec Sun Louvres can be Bracket Fixed using Louvretec's proprietary Bracket Fixing Systems. Die cast or extruded brackets are custom manufactured site specific, enabling the louvre blades to be set at any pitch or to any centres.

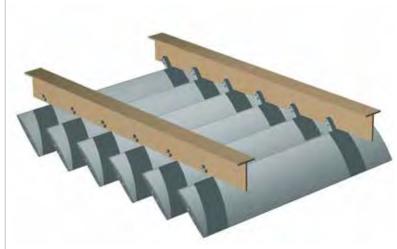


# VERTICAL PANEL BRACKET FIXED - HORIZONTAL LOUVRES

# VERTICAL PANELS BRACKET FIXED - HORIZONTAL LOUVRES

All Louvretec Airfoil and Maxi Louvres can be Bracket Fixed, with the blades:

- set at any angle
- set at any centre (blade centre)



OVERHEAD PANEL BRACKET FIXED - HORIZONTAL LOUVRES

# OVERHEAD PANELS BRACKET FIXED - HORIZONTAL LOUVRES

Overhead (Horizontal) louvres may fit above an existing opening, or as illustrated may require a specific structural sub frame.

Sub frames are typically aluminium or steel and usually require specific engineering details.

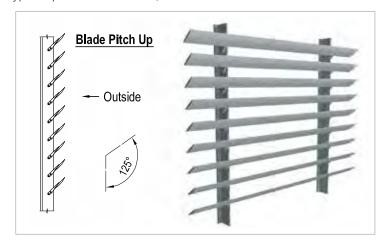
Louvretec specialises in the supply and installation of aluminium structural sub frames.

Please contact Louvretec for further details.

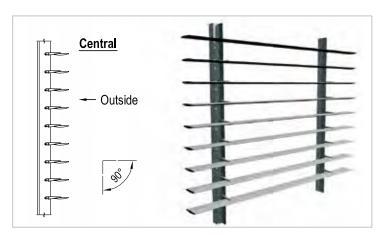
# HOW THE VERTICAL SYSTEM WORKS

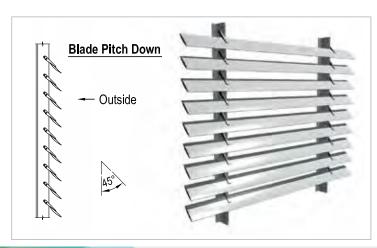
## Bracket fixing

- · Blades can be set to any pitch or centre
- · Three typical options shown below;

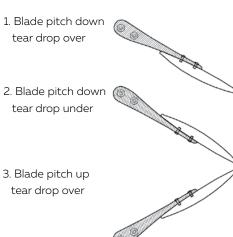


- All Louvretec Airfoil and Maxi Louvres can be bracket fixed with the blades:
  - set at any angle or pitch (blade pitch)
  - set at any centre (blade centre)
- There are four combinations of louvre blade to extruded bracket arm (tear drop) to consider:









4. Blade pitch up tear drop under

# HOW THE OVERHEAD SYSTEM WORKS

## Overhead panels



- Horizontal or Overhead louvres may fit above an existing opening or, as illustrated, may require a separate structural sub-frame.
- Sub-frames are typically aluminium or steel and usually require specific engineering details.
- Engineering is usually also required for the fixing details to the building.
- Louvretec specialises in the supply and installation of aluminium structural sub-frames.





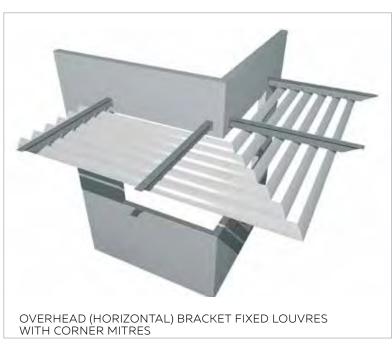
# HOW THE CORNER MITRES WORK

## Bracket fixing

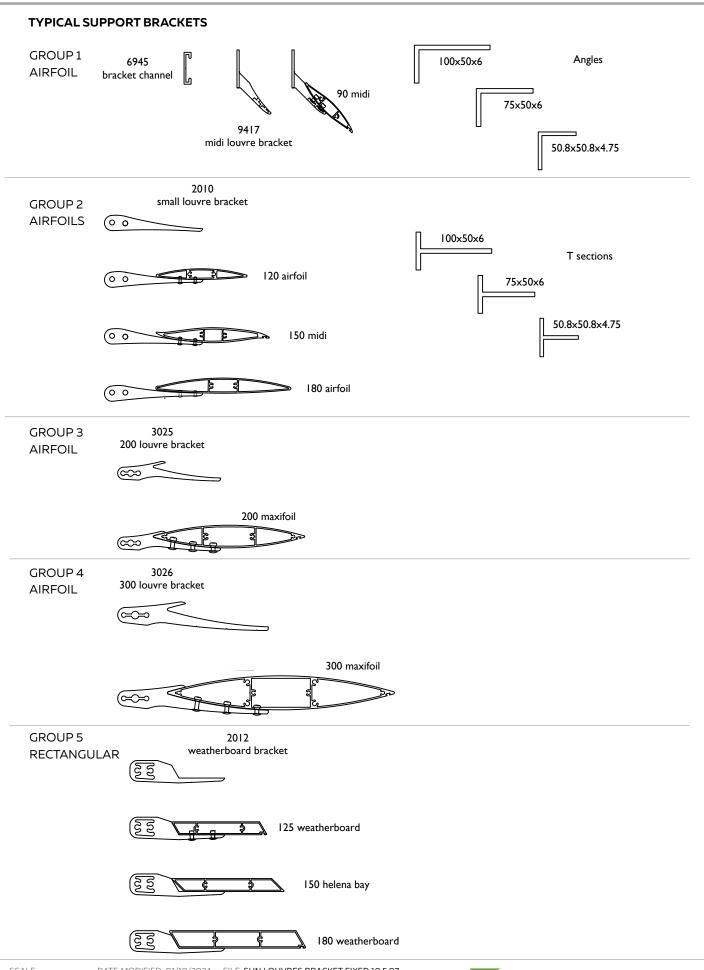
- Bracket fixed louvres mitred at the corners are a Louvretec specialty.
- A seamless effect is achieved giving the blades continuity to both sides of the building.
- Both Vertical and Horizontal Bracket Fixed louvres can be mitred.







# TYPICAL DETAIL: BRACKET FIXED AIRFOIL & RECTANGULAR SUN LOUVRES CUSTOMISED OPTIONS FOR COMPATIBLE GROUPS OF LOUVRES



SCALE: DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES BRACKET FIXED 10.5.07 www.louvretec.co.nz www.louvretec.com.au

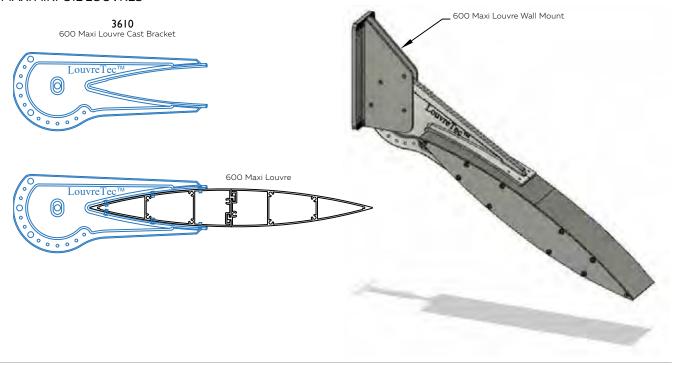
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LouvreTec<sup>®</sup>

# TYPICAL DETAIL: BRACKET FIXED AIRFOIL & RECTANGULAR SUN LOUVRES CUSTOMISED OPTIONS FOR COMPATIBLE GROUPS OF LOUVRES

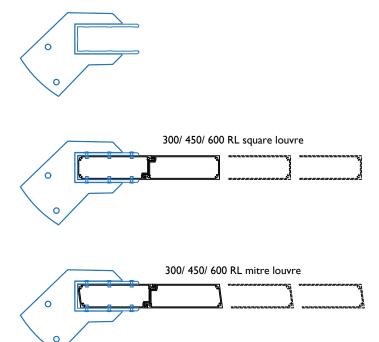
### **TYPICAL SUPPORT BRACKETS**

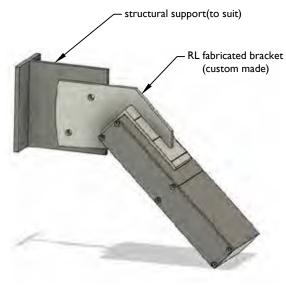
GROUP 6
MAXI AIRFOIL LOUVRES



# GROUP 7 MAXI RECTANGULAR LOUVRES

RL fabricated bracket 300/450/600 RL square louvre





300 RL square shown



### APPLICATION OVERVIEW GROUPED BRACKET FIXED LOUVRES AT GLANCE

MINIMUM - MAXIMUM BLADE SPANS AT A GLANCE AS DETERMINED BY WIND SPEED. REFER TO SECTION 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 BRACKET FIXED SUN LOUVRES

7 Groups of Sun Louvres that can be Bracket Fixed using

Louvretec's proprietary Bracket Fixing system

IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER.
WE'RE FOCUSED TO MEETING YOUR NEEDS WITH TAILORED SOLUTIONS.

GROUP	LOUVRE	MAXIMUM SPANS
BRACKET FIXED	90 MIDI LOUVRE	1400MM EX HIGH
GROUP 1	150 MIDI LOUVRE	1900MM EX HIGH
BRACKET FIXED	120 AIRFOIL LOUVRE	1600MM EX HIGH
GROUP 2	180 AIRFOIL LOUVRE	2050MM EX HIGH
BRACKET FIXED GROUP 3	200 MAXI LOUVRE	2350MM EX HIGH
BRACKET FIXED GROUP 4	300 MAXI LOUVRE	3350MM EX HIGH

#### **APPLICATION OVERVIEW GROUPED BRACKET FIXED LOUVRES AT A GLANCE**

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

EXTRA HIGH WIND SPEED 198KM/H 55M/



LOW WIND SPEED 115KM/H 32M/S



# THE LOUVRETEC RANGE OF BRACKET FIXED SUN LOUVRES

7 Groups of Sun Louvres that can be Bracket Fixed using

Louvretec's proprietary Bracket Fixing system

IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER. WE'RE FOCUSED TO MEETING YOUR NEEDS WITH TAILORED SOLUTIONS.

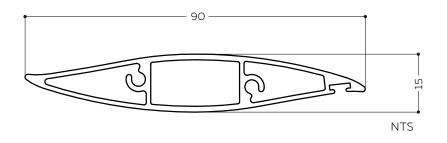
GROUP	LOUVRE	MAXIMUM SPANS
BRACKET	150MM HELENA BAY	2050MM EX HIGH 3050MM LOW
FIXED GROUP 5	125MM WEATHERBOARD PANEL	1750MM EX HIGH
	180MM WEATHERBOARD PANEL	2100MM EX HIGH
END FIXED		3700MM EX HIGH
GROUP 6	600 MAXI LOUVRE	5800MM LOW
END FIXED GROUP 7	RL450 MITRE LOUVRE  RL450 MITRE LOUVRE  RL450 SQUARE LOUVRE  RL450 SQUARE LOUVRE	4050MM  4050MM  LOW  LOW  LOW  LOW  LOW  LOW  LOW  L

# **GROUP 1 LOUVRE**

Small to Medium size louvres: 90MM MIDI & 150mm MIDI LOUVRES

# 90MM MIDI LOUVRE

The smallest



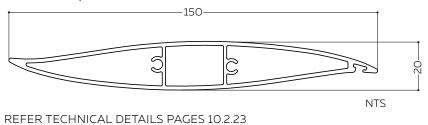
REFER TECHNICAL DETAILS PAGES 10.1.06



90MM MIDI LOUVRE

# 150MM MIDI LOUVRE

Wave shaped





150MM MIDI LOUVRE

## TYPICAL DETAIL 90MM BRACKET FIXED LOUVRE - VERTICAL & OVERHEAD

(GROUP 1 LOUVRE COLLECTION)

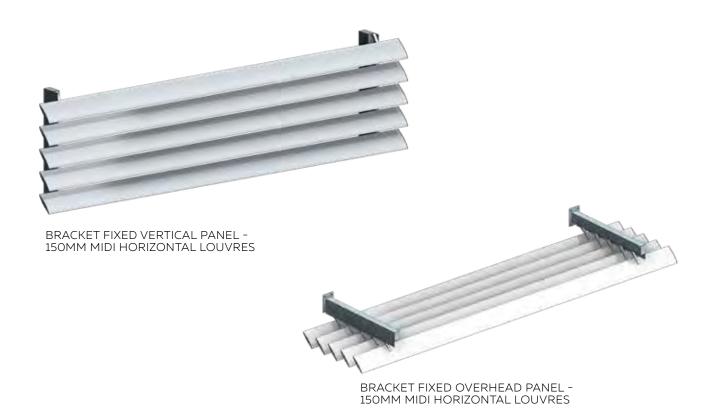




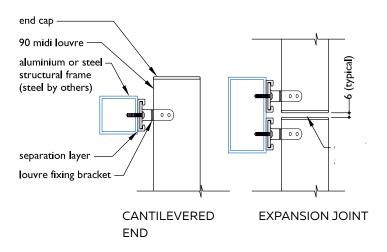
BRACKET FIXED VERTICAL PANEL - 90MM MIDI HORIZONTAL LOUVRES

BRACKET FIXED OVERHEAD PANEL - 90MM MIDI HORIZONTAL LOUVRES

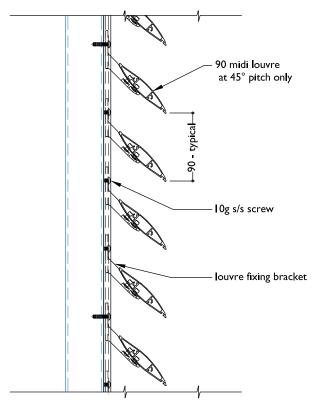
#### TYPICAL DETAIL 150MM MIDI BRACKET FIXED LOUVRE - VERTICAL & OVERHEAD PANEL



### PLAN - BRACKET FIXED 90MM MIDI LOUVRE



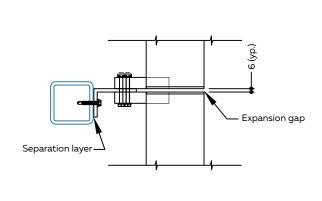
### SECTION - BRACKET FIXED 90MM MIDI LOUVRE

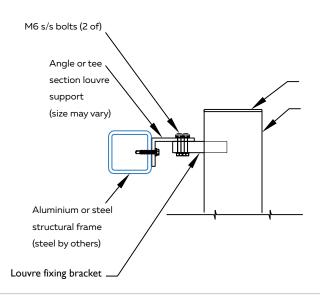


BRACKET FIXED 90MM MIDI LOUVRE

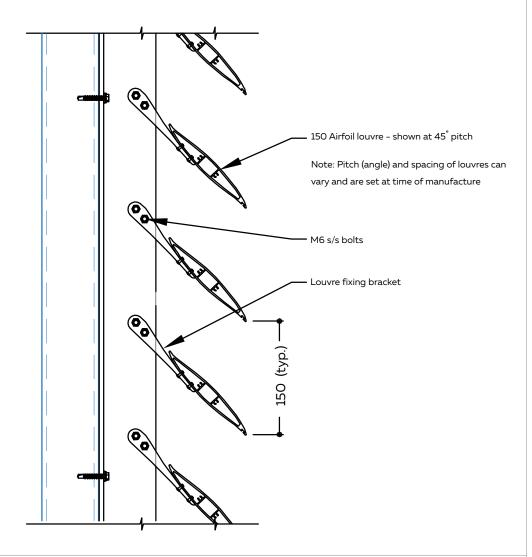


#### PLAN - BRACKET FIXED 150MM MIDI LOUVRE





### SECTION - BRACKET FIXED 150MM MIDI LOUVRE



SCALE:

DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES BRACKET FIXED 10.5.15

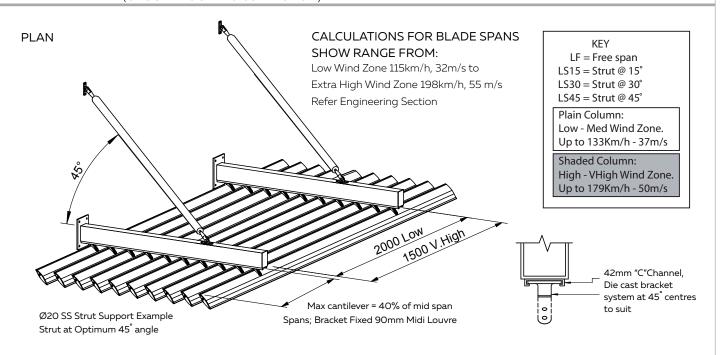
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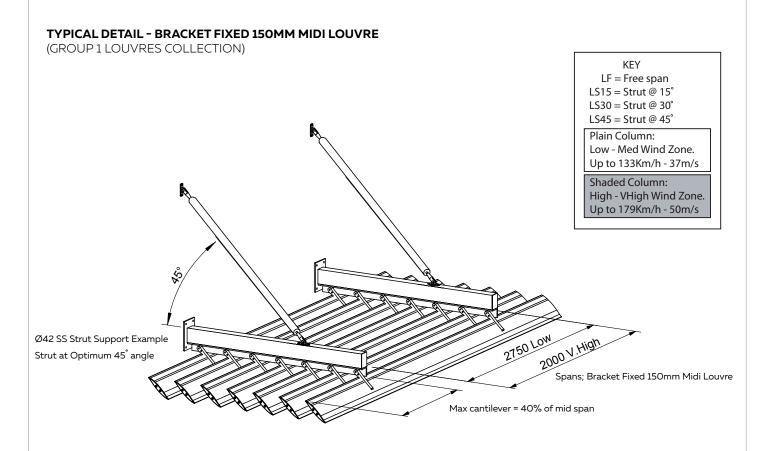
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#### TYPICAL DETAIL: BRACKET FIXED 90MM MIDI LOUVRE

(GROUP 1 LOUVRES COLLECTION)





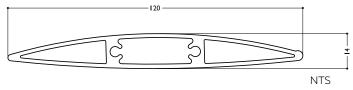


# **GROUP 2 LOUVRES**

Airfoil Louvres: 120MM AIRFOIL & 180MM AIRFOIL LOUVRES

# 120MM AIRFOIL LOUVRE

Versatile range of design applications



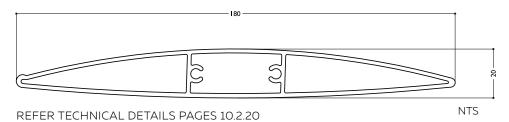
REFER TECHNICAL DETAILS PAGES 10.2.18



120MM AIRFOIL LOUVRE

# 180MM AIRFOIL LOUVRE

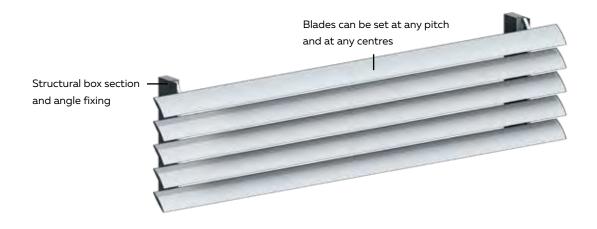
The largest Airfoil shaped louvre





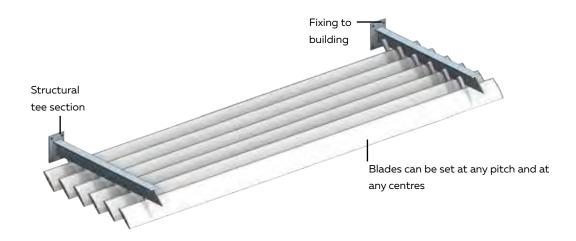
180MM AIRFOIL LOUVRE

### TYPICAL DETAIL 120MM AIRFOIL BRACKET FIXED - VERTICAL PANEL



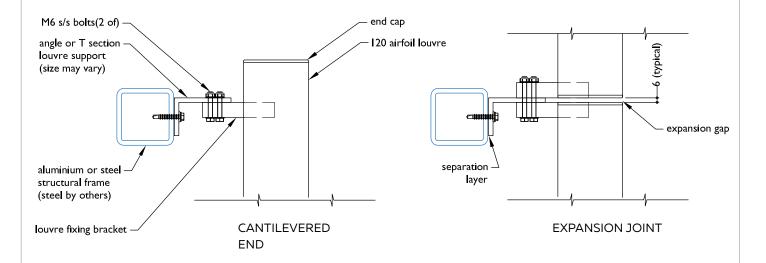
BRACKET FIXED VERTICAL PANEL - 120MM AIRFOIL HORIZONTAL LOUVRES

## TYPICAL DETAIL 120MM AIRFOIL BRACKET FIXED LOUVRE - OVERHEAD PANEL

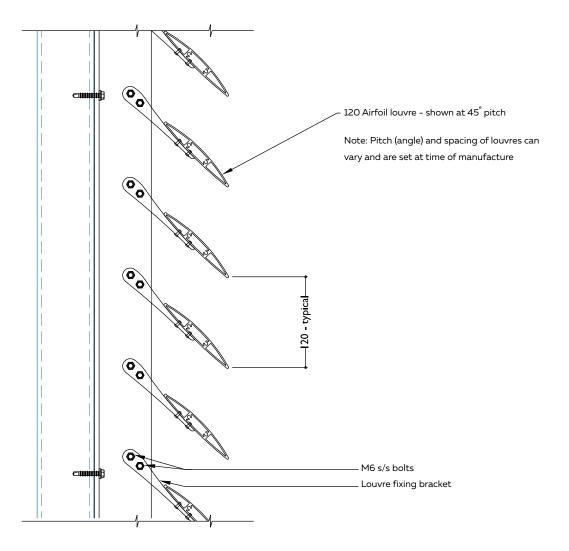


BRACKET FIXED OVERHEAD PANEL - 120MM AIRFOIL HORIZONTAL LOUVRES

#### PLAN - BRACKET FIXED 120MM AIRFOIL LOUVRE



## SECTION - BRACKET FIXED 120MM AIRFOIL LOUVRE



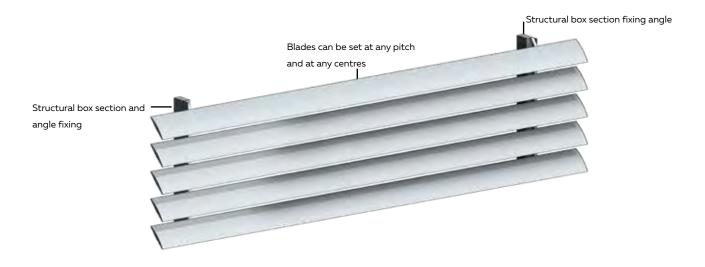
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES BRACKET FIXED 10.5.19

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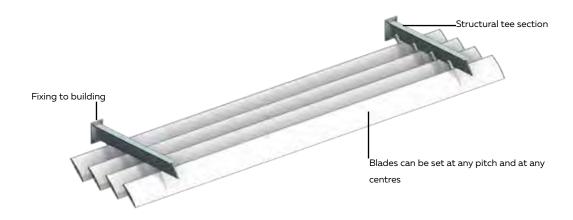


#### TYPICAL DETAIL 180MM AIRFOIL BRACKET FIXED LOUVRE - VERTICAL PANEL



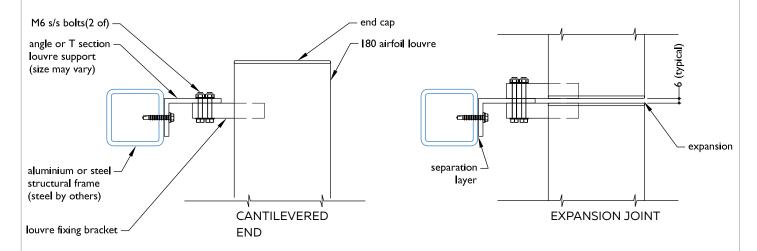
BRACKET FIXED VERTICAL PANEL - 180MM AIRFOIL HORIZONTAL LOUVRES

## TYPICAL DETAIL 180MM AIRFOIL BRACKET FIXED LOUVRE - OVERHEAD PANEL

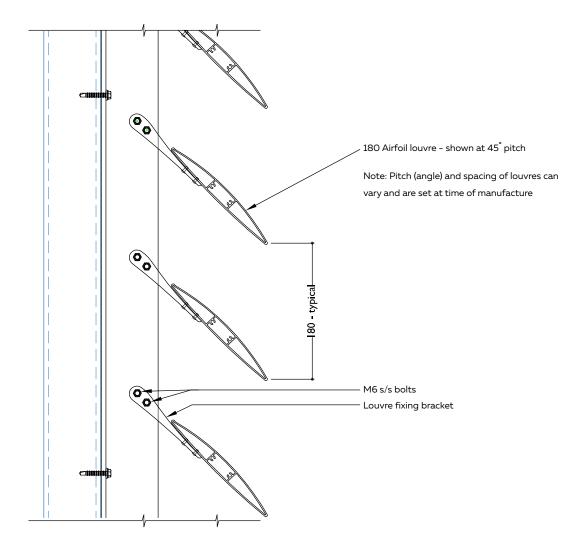


BRACKET FIXED OVERHEAD PANEL - 180MM AIRFOIL HORIZONTAL LOUVRES

#### PLAN - BRACKET FIXED 180MM AIRFOIL LOUVRE



## SECTION - BRACKET FIXED 180MM AIRFOIL LOUVRE



SCALE: www.louvretec.co.nz

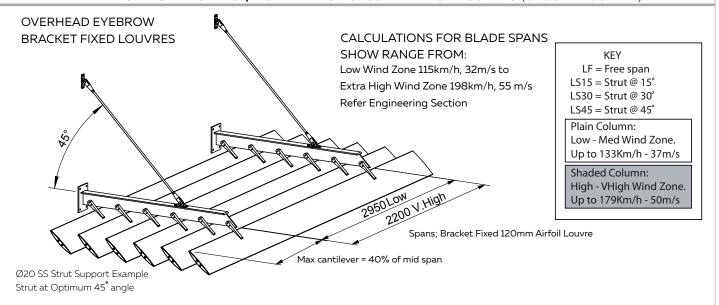
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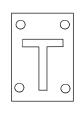
#### **TYPICAL DETAIL: BRACKET FIXED OVERHEAD SUN LOUVRES** SPANS AT A GLANCE; 120MM AIRFOIL & 180MM AIRFOIL LOUVRES (GROUP 2 LOUVRES)



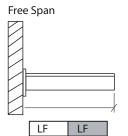
#### **TYPICAL DETAIL: BRACKET FIXED OVERHEAD WALL STRUTS** SPANS AT A GLANCE; 120MM AIRFOIL, 180MM AIRFOIL & 200MM MAXI LOUVRES (GROUP 2 LOUVRES)



Base Plate: 150 x 100 x 6mm **Box Section:** 75 x 50 x 2.5mm Angle: 50 x 50 x 3mm



Base Plate: 120 x 100 x 6mm 'T' Section: 75 x 50 x 6mm



Strut Ø16mm 500 500 Stainless steel

Strut Support

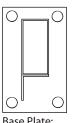


LS30	LS30
900	700

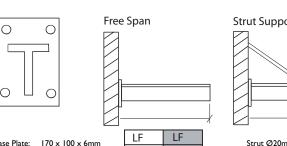
LS45	LS45
900	700



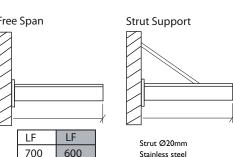
Base Plate: 225 x 100 x 6mm Box Section: 100 x 50 x 3mm Angle: 50 x 50 x 6mm



275 x 100 x 6mm Box Section: 150 x 50 x 3mm Angle:



Base Plate:	170 x 100 x 6mm
'T' Section:	100 x 50 x 6mm



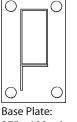
Strut Ø20mm Stainless steel	

LS15	LS15
1100	900
1 230	1 630

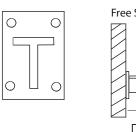
LS45	LS45
1300	1000

1000

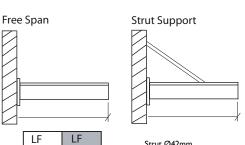
1200







Base Plate: 170 x 100 x 6mm 'T' Section:  $100 \times 50 \times 6$ mm



Strut Support	
	-
	]

Strut Ø42mm	
Stainless steel	

LS15	LS15
1400	1100
1.020	1 (20

1600	1300

LS45	LS45
1700	1400



FILE: SUN LOUVRES BRACKET FIXED

900

1000

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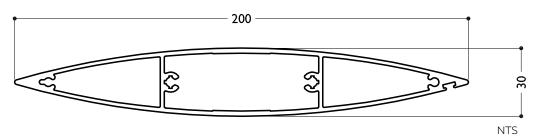
#### SUN LOUVRES BRACKET FIXED

## GROUP 3 LOUVRE

Airfoil Louvres: 200MM MAXI LOUVRE

## 200MM MAXI LOUVRE

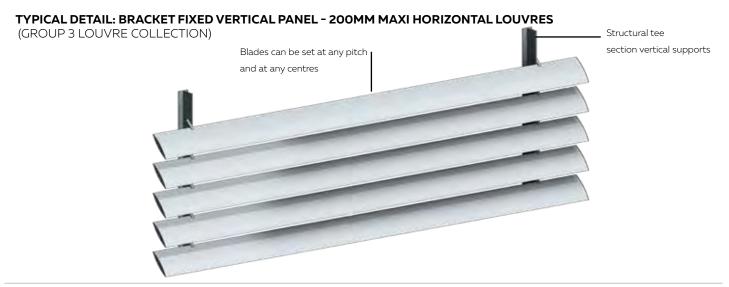
Most specified Maxi Louvre

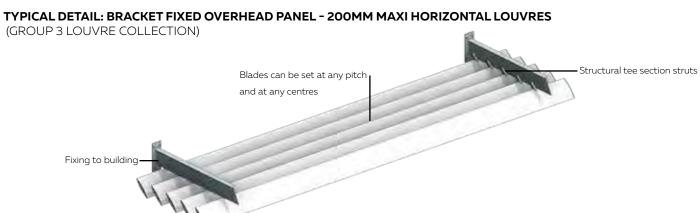




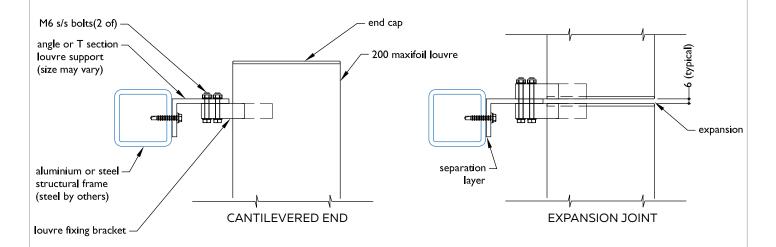
200MM MAXI LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.25

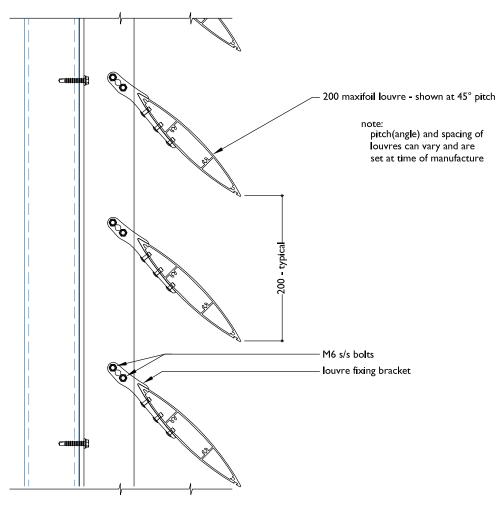




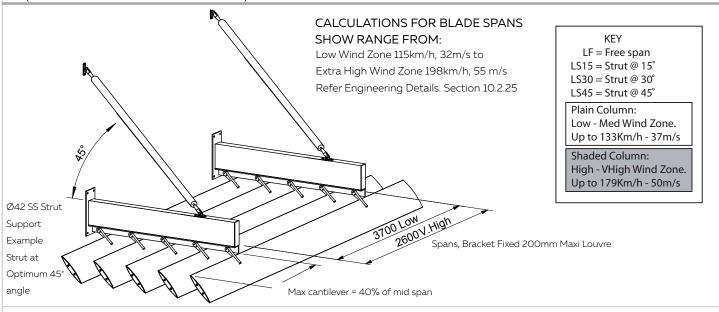
#### PLAN - BRACKET FIXED 200MM MAXI LOUVRE



#### SECTION - BRACKET FIXED 200MM MAXI LOUVRE



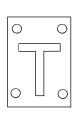
BRACKET FIXED 200MM MAXI LOUVRE PANEL



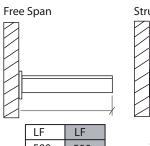
#### TYPICAL DETAIL: BRACKET FIXED OVERHEAD WALL STRUTS FOR 180MM AIRFOIL & 200MM MAXI LOUVRE SPANS AT A GLANCE (FROM GROUP 2 & 3 LOUVRES COLLECTION)



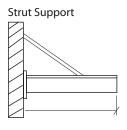
Base Plate: 150 x 100 x 6mm Box Section: 75 x 50 x 2.5mm Angle: 50 x 50 x 3mm



Base Plate: 120 x 100 x 6mm 'T' Section: 75 x 50 x 6mm



500 500



Strut Ø16mm Stainless steel

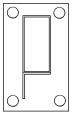
LS15	LS15
800	600

LS30	LS30
900	700

LS45	LS45
900	700

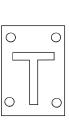


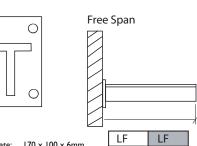
Base Plate: 225 x 100 x 6mm Box Section: 100 x 50 x 3mm Angle: 50 x 50 x 6mm



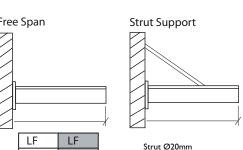
Base Plate: 275 x 100 x 6mm Box Section: 150 x 50 x 3mm Angle:

50 x 50 x 6mm





Base Plate: 170 x 100 x 6mm 700 600 'T' Section: 100 x 50 x 6mm



Stainless steel

LS15	LS15
1100	900

LS30 LS30 1200 1000

LS45	LS45
1300	1000

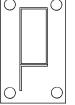
LS15

LS15

1100

LS30

1300



0

Free Span LF Base Plate: 170 x 100 x 6mm 100 x 50 x 6mm 1000 900 Strut Support Strut Ø42mm

Stainless steel

1400 LS30 1600

> LS45 LS45 1700 1400

SCALE:

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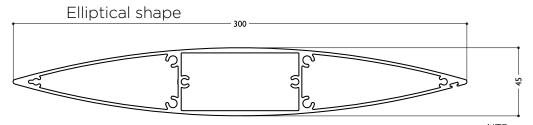
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LouvreTec®

### **GROUP 4 LOUVRE**

Maxi Airfoil shaped louvre: 300MM MAXI LOUVRE

## 300MM MAXI LOUVRE



The 300mm Maxi Louvre is now available in a motorised option using Louvretec's new Maxi-Drive pivot system.

This new pivot system hides both the motor and pivot mechanism within a structural aluminium support frame.

Powered by Somfy, Maxi-Drive incorporates both a reduction gearbox and supporting drive arm, providing strength needed for pivoting large blade louvres. Ideal for both residential and commercial applications.

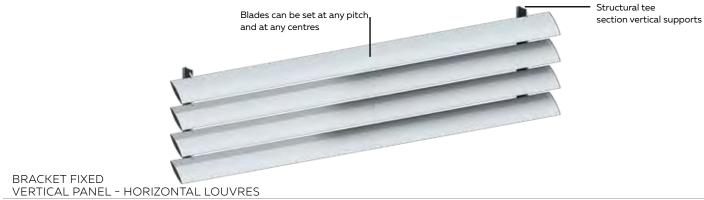
Also available as End or Bracket Fixed, Horizontal or Vertical Overhead Panels.

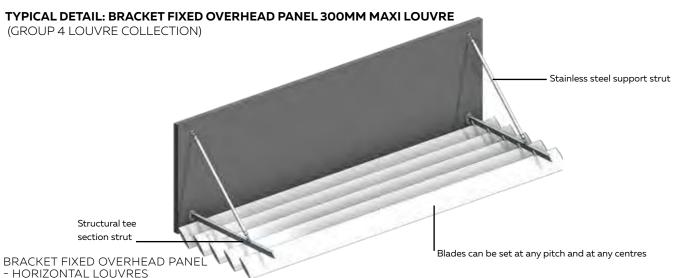


300MM MAXI LOUVRE

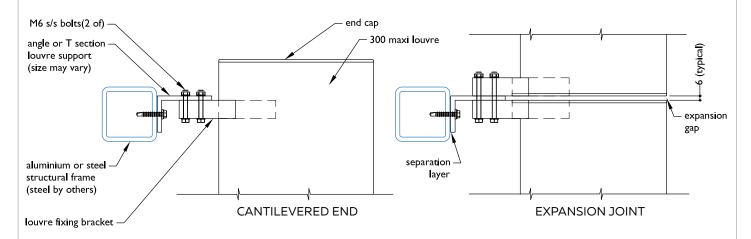
REFER TECHNICAL DETAILS PAGE 10.4.32

#### TYPICAL DETAIL: BRACKET FIXED VERTICAL PANEL 300MM MAXI LOUVRE (GROUP 4 LOUVRE COLLECTION)

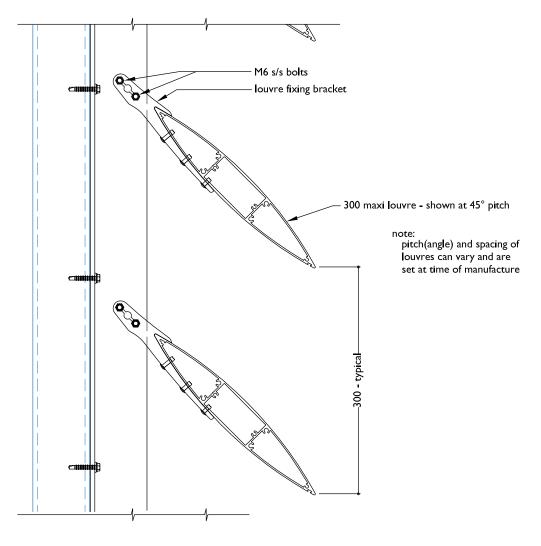




#### PLAN - BRACKET FIXED 300MM MAXI LOUVRE



#### SECTION - BRACKET FIXED 300MM MAXI LOUVRE



BRACKET FIXED 300MM MAXI LOUVRE

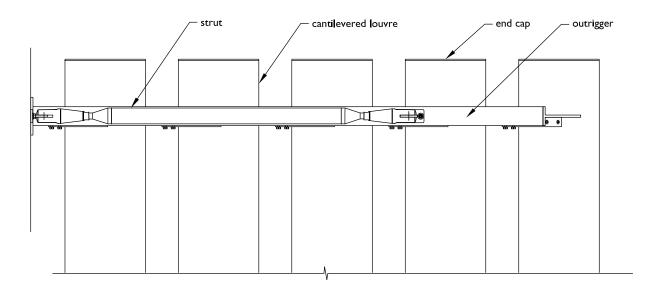
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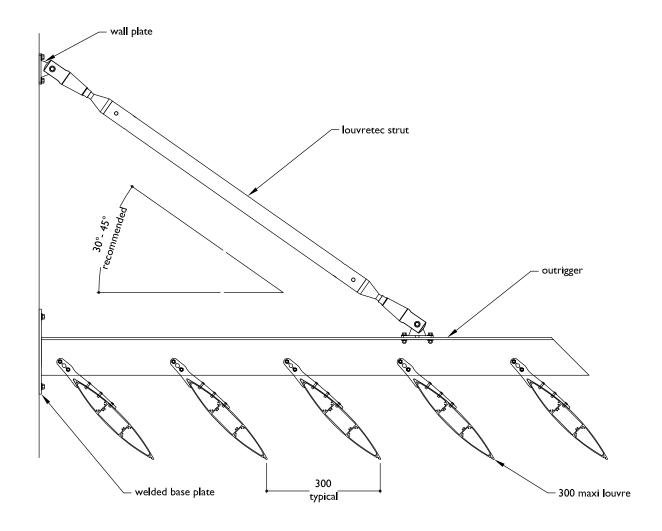
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#### PLAN - BRACKET FIXED 300MM MAXI LOUVRE - EYEBROW CONFIGURATION



#### SECTION - BRACKET FIXED 300MM MAXI LOUVRE - EYEBROW CONFIGURATION

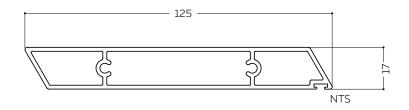


### **GROUP 5 LOUVRES**

Mid size Rectangular Louvres: 125 MM WEATHERBOARD, 180 WEATHERBOARD, 150 HELENA BAY LOUVRES

## 125MM WEATHERBOARD PANEL

Wall panel | sun louvre

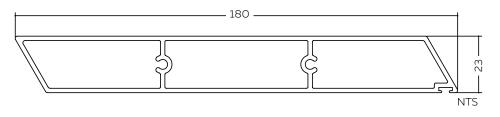




REFER TECHNICAL DETAILS PAGES 10.4.26

### 180MM WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade

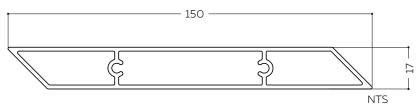


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## 150MM HELENA BAY 45° FIXED WEATHERBOARD PANEL

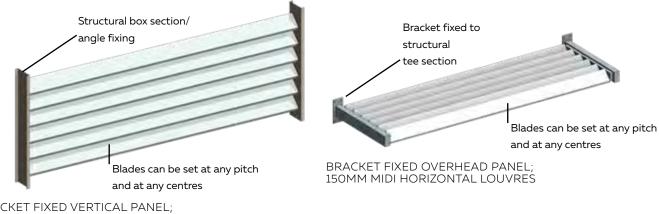
Wall panel | sun louvre | balustrade



REFER TECHNICAL DETAILS PAGES 10.4.25

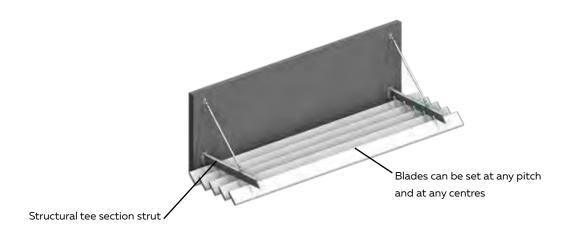


#### TYPICAL DETAIL 125MM WEATHERBOARD BRACKET FIXED - VERTICAL PANEL & OVERHEAD PANEL



BRACKET FIXED VERTICAL PANEL; 150MM MIDI HORIZONTAL LOUVRES

#### TYPICAL DETAIL 180MM WEATHERBOARD BRACKET FIXED PANEL - OVERHEAD PANEL



BRACKET FIXED OVERHEAD PANEL; 180MM WEATHERBOARD HORIZONTAL LOUVRES

#### TYPICAL DETAIL 150MM HELENA BAY 45° FIXED WEATHERBOARD PANEL - BRACKET FIXED

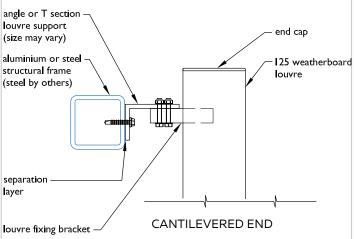


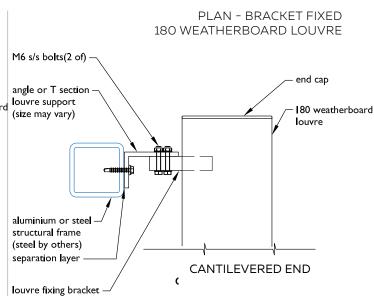
BRACKET FIXED VERTICAL PANEL; 150MM HELENA BAY HORIZONTAL LOUVRES



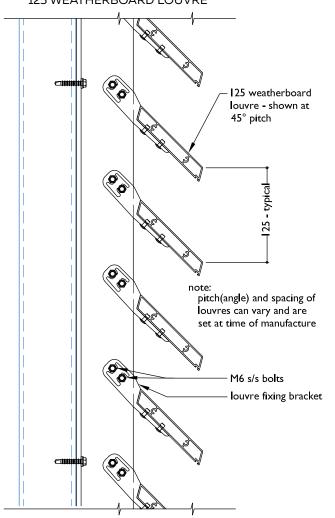
BRACKET FIXED OVERHEAD PANEL; 150MM HELENA BAY HORIZONTAL LOUVRES

## PLAN - BRACKET FIXED 125 WEATHERBOARD LOUVRE

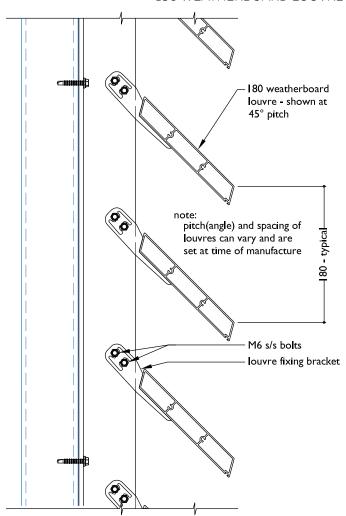




## SECTION - BRACKET FIXED 125 WEATHERBOARD LOUVRE



#### SECTION - BRACKET FIXED 180 WEATHERBOARD LOUVRE



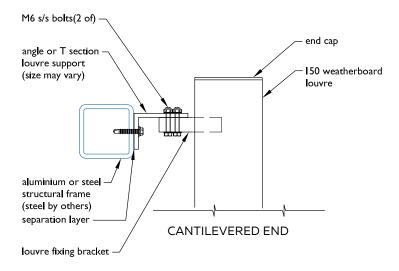
SCALE: www.louvretec.co.nz DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES BRACKET FIXED 10.5.31

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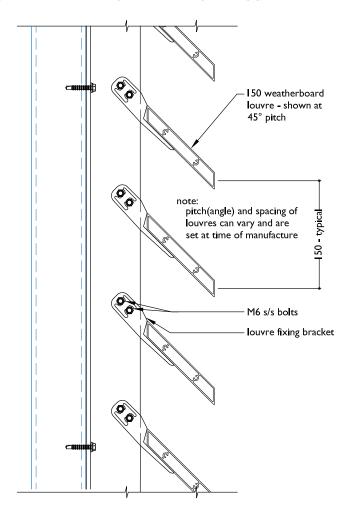
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#### PLAN - BRACKET FIXED 150MM HELENA BAY 45° WEATHERBOARD LOUVRE



#### SECTION - BRACKET FIXED 150MM HELENA BAY 45° WEATHERBOARD LOUVRE



## **GROUP 6 LOUVRES**

Largest Airfoil Shaped Louvre: 600MM MAXI LOUVRE

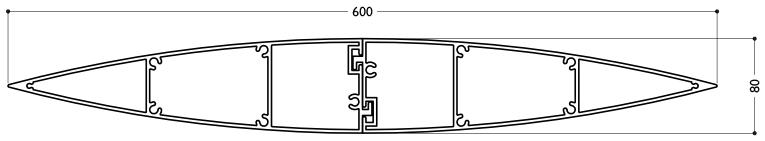
## 600MM MAXI LOUVRE

#### Largest Airfoil Louvre

The 600mm Maxi Louvre is the largest louvre in the range and while primarily used in large spanning commercial projects it has also been specified for residential use. A current trend being larger louvres specified in a wider range of applications.





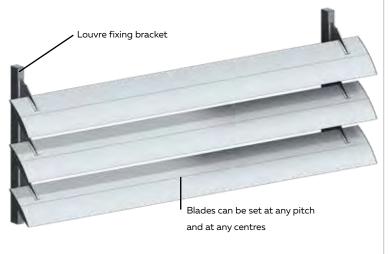


REFER TECHNICAL DETAILS PAGE 10.4.32

NTS

## TYPICAL DETAIL: BRACKET FIXED VERTICAL PANEL 600MM MAXI LOUVRE - HORIZONTAL BLADES

(GROUP 6 LOUVRE COLLECTION)



BRACKET FIXED VERTICAL PANEL - 600MM MAXI HORIZONTAL LOUVRES

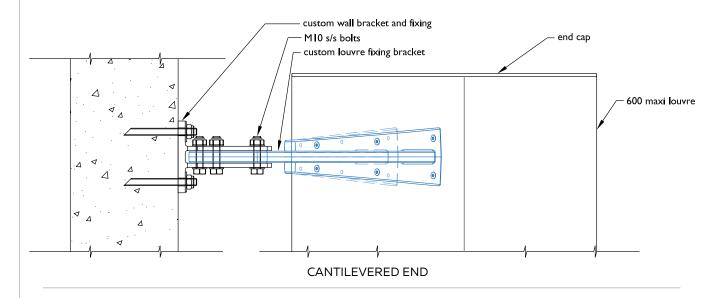
## TYPICAL DETAIL: BRACKET FIXED VERTICAL PANEL 600MM MAXI LOUVRE - VERTICAL BLADES

(GROUP 6 LOUVRE COLLECTION)

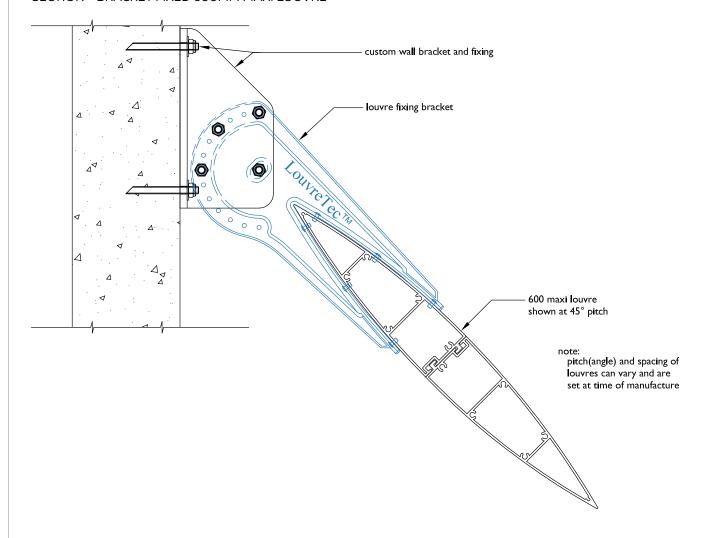


BRACKET FIXED VERTICAL PANEL - 600MM MAXI VERTICAL LOUVRES

#### PLAN - BRACKET FIXED 600MM MAXI LOUVRE



#### SECTION - BRACKET FIXED 600MM MAXI LOUVRE



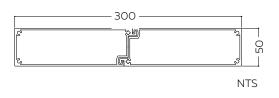
SUN LOUVRES BRACKET FIXED

## **GROUP 7 LOUVRES**

Rectangular RL300 SQUARE, RL450 SQUARE, RL600 SQUARE LOUVRES Rectangular RL300 MITRE, RL450 MITRE, RL600 MITRE LOUVRES

## RL300 SQUARE LOUVRE

Rectangular in length with square corners



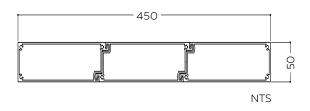
REFER TECHNICAL DETAILS PAGES 10.4.40





## **RL450 SQUARE LOUVRE**

Rectangular in length with square corners



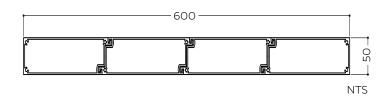
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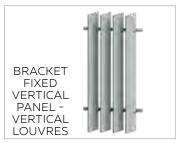




## **RL600 SQUARE LOUVRE**

Rectangular in length with square corners







REFER TECHNICAL DETAILS PAGES 10.4.42

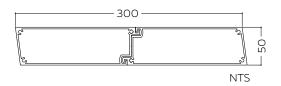
**SUN LOUVRES BRACKET FIXED** 

### **GROUP 7 LOUVRES**

Rectangular RL300 SQUARE, RL450 SQUARE, RL600 SQUARE LOUVRES Rectangular RL300 MITRE, RL450 MITRE, RL600 MITRE LOUVRES

## **RL300 MITRE LOUVRE**

Rectangular in length with mitred corners



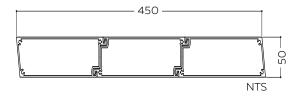




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### **RL450 MITRE LOUVRE**

Rectangular in length with mitred corners



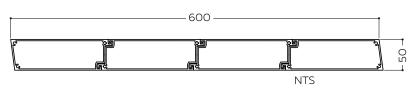
REFER TECHNICAL DETAILS PAGES 10.4.41





## **RL600 MITRE LOUVRE**

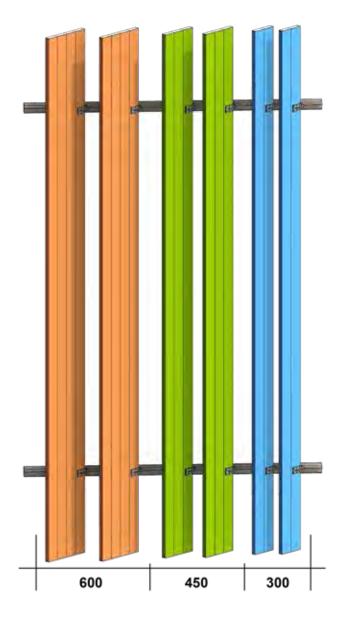
Rectangular in length with mitred corners



BRACKET FIXED VERTICAL PANEL -VERTICAL LOUVRES

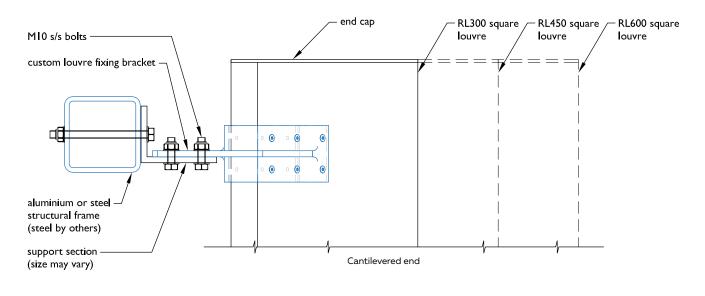


REFER TECHNICAL DETAILS PAGES 10.4.42

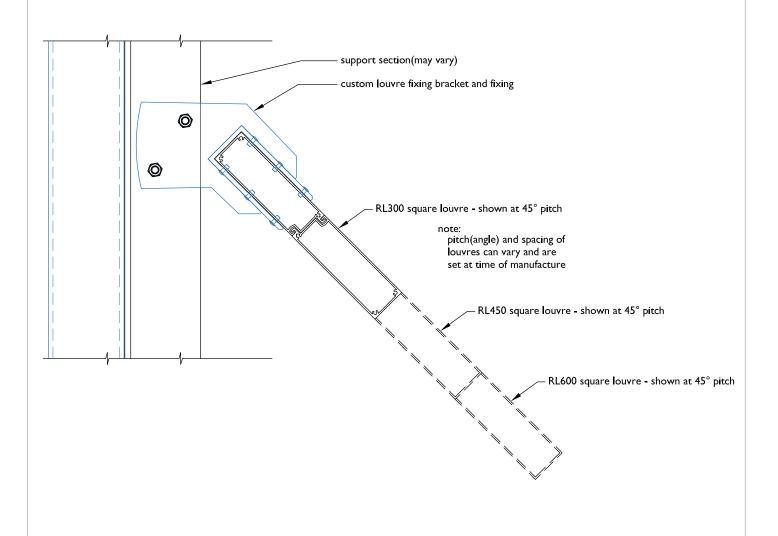


## TYPICAL DETAIL: BRACKET FIXED PANEL RL300 SQUARE, RL450 SQUARE, RL600 SQUARE LOUVRES (GROUP 7 LOUVRES COLLECTION)

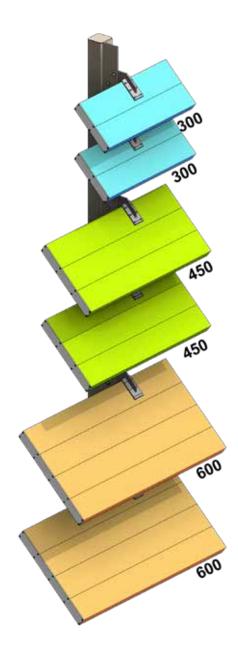
#### PLAN - BRACKET FIXED RL 300/450/600 SQUARE LOUVRE



#### SECTION - BRACKET FIXED RL 300/450/600 SQUARE LOUVRE



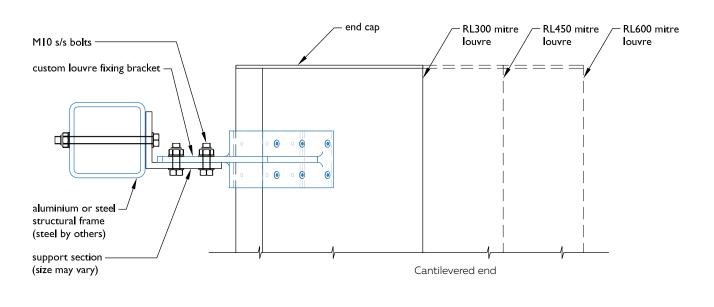




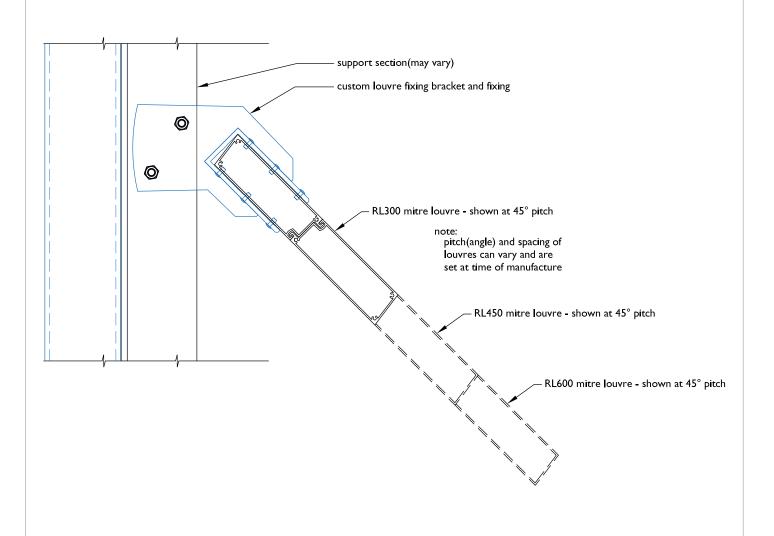


## TYPICAL DETAIL: BRACKET FIXED PANEL RL300 MITRE, RL450 MITRE, RL600 MITRE LOUVRES (GROUP 7 LOUVRES COLLECTION)

#### PLAN - BRACKET FIXED RL 300/450/600 MITRE LOUVRE



#### SECTION - BRACKET FIXED RL 300/450/600 MITRE LOUVRE







BRACKET FIXED CHIMNEY SURROUND WITH MITRED CORNERS



AUCKLAND, NZ

## **CHIMNEY SURROUNDS**

### The cherry on top

There are many options available when designing louvre chimney surrounds. The actual shape or footprint of the surround is largely dictated by the chimney itself.

Determine what size louvre blade will be best suited, both aesthetically and functionally. Wind flow through the louvre blades can assist with the actual venting of the chimney. The surround's support structure can be a combination of aluminium box section, angle or channel. Please discuss with Louvretec.



BRACKET FIXED CHIMNEY SURROUND WITH MITRED CORNERS

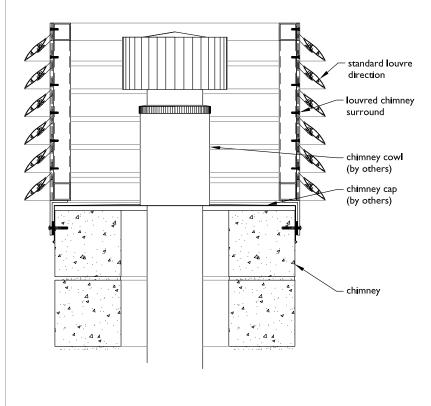
## SURFACE FINISHING OPTIONS A wide range of options are available.

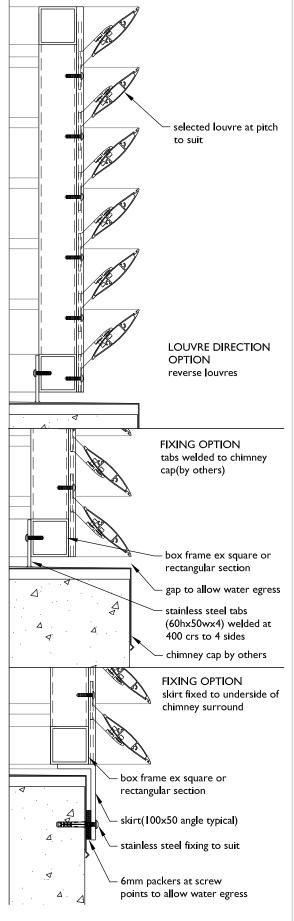


## TYPICAL DETAIL: BRACKET FIXED LOUVRE CHIMNEY SURROUND



#### SECTION- BRACKET FIXED LOUVRE CHIMNEY SURROUND





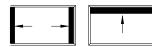


NOTES		









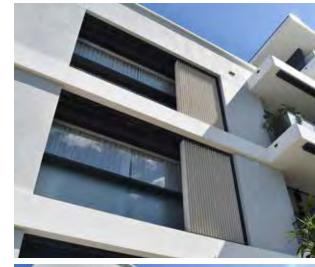
RETRACT SUN LOUVRES DEVELOPMENT

## **RETRACT SUN LOUVRES**

## Design & Development

Louvretec is continuing with design and development of the Retract Sun Louvres Range.

Please contact your Louvretec Dealer for further information.







RETRACT SUN LOUVRES
CONTINUING DEVELOPMENT

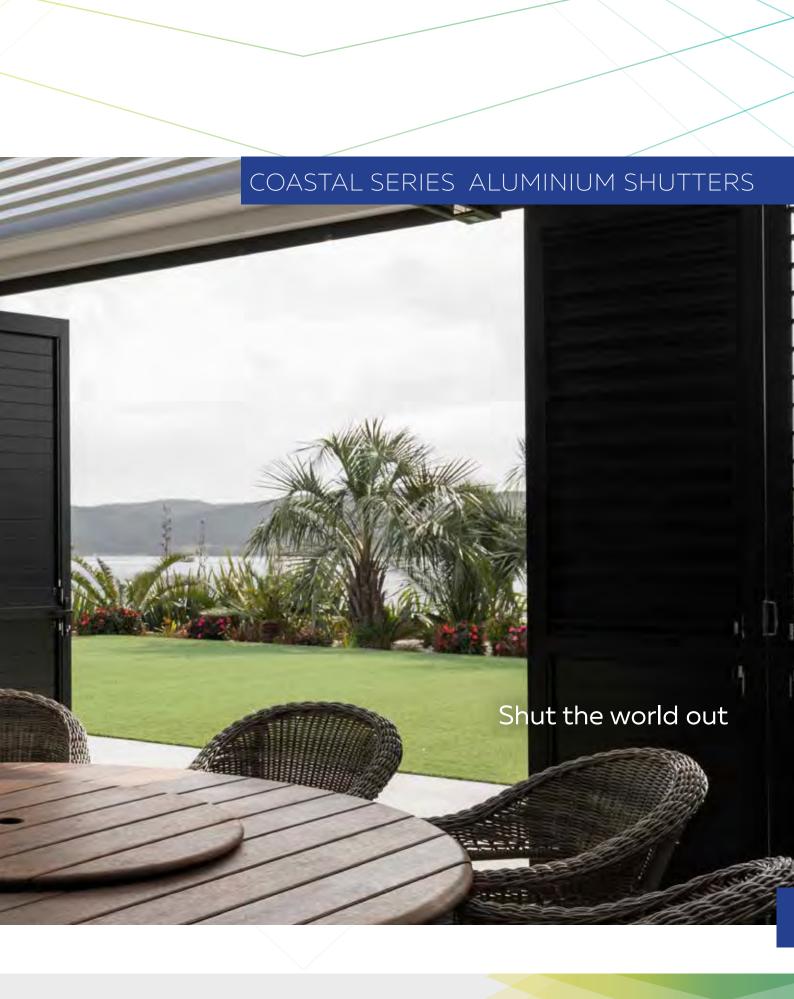
NOTES		





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#### GALLERY COASTAL SERIES ALUMINIUM SHUTTERS









# COASTAL SERIES ALUMINIUM SHUTTERS

Sliding, Bifolding and Hinged Shutter systems for Doors and Windows

#### Ideal for closing in your Louvretec Outdoor Room

Designed to operate in the harshest of conditions, Louvretec's proven Coastal Series Shutters offers a wide range of design options.

Custom made to meet the most demanding design and performance criteria.

All Louvretec Coastal Shutters are manufactured from commercial grade powder coated or anodised aluminium.



SLIDING SHUTTERS, PAUANUI NZ

All Sliding, Bifolding & Hinged componentry have completed extensive corrosion testing and are constructed using 300 series Stainless Steel with componentry die-cast in 316 marine grade.

With Louvretec's extensive range of Louvre shapes and sizes, matched with a range of Door Frames for all Sliding, Bifolding or Hinged installations, Louvretec Coastal Series offers a premium range of Shutters for a wide variety of applications.

#### 1. SLIDING DOOR & WINDOW SHUTTERS

### Details at a glance Coastal Sliding Louvre Panels

Sliding Louvre Shutters vary considerably from glazed aluminium joinery sliding doors. Glazed aluminium joinery doors generally fit within a 4 sided outer frame with the glass assisting with the bracing of the sliding panel.

Sliding Louvre Shutters generally fit to the outside of the building, deck or within a prepared opening and as such only have Top and Bottom Tracks and guides.



Top Hung Shutters have the advantage of being held captive within the Top Track. A minimal bottom guide only is required.

Bottom Rolling Shutters do not require structural fixing at the head with all the weight being on the Bottom Track. They are easy to operate, particularly with larger doors.

### Top Hung or Bottom Rolling?



TOP HUNG SLIDERS - CARRIAGE WITHIN HEAD TRACK



**BOTTOM ROLLING SLIDER** 



#### For more info refer to:

Coastal Top Hung 120kg Pages 12.11, 12.12, 12.13, 12.21

Coastal Top Hung 250kg Pages 12.14, 12.15, 12.16, 12.21

Coastal Bottom Rolling 80kg Pages 12.17, 12.19, 12.20, 12.21

Coastal Bottom Rolling 200kg Pages 12.18, 12.19, 12.20, 12.21

Coastal Bottom Rolling 200kg Pages 12.18, 12.19, 12.20, 12.21

STIGUTE WORIGHT

## 1. SLIDING DOORS & WINDOW SHUTTERS Coastal Sliding Louvre Panels (CONTINUED)

#### Transom

Adjustable louvres provide no lateral bracing for the sliding panel and in most cases for shutters over 1500mm wide a transom is required.

Fixed louvres however provide excellent lateral bracing eliminating the need for a transom.

#### Mullion

As generally smaller 90mm - 100mm louvres are used in sliding shutters a mullion may be required in shutters over 1200mm - 1500mm wide in order to meet spanning requirements.

#### Shutter Weight

Calculating the weight of a sliding louvered shutter allow 12-14 kg per sqm. This includes louvres, outer frame mullions and transoms if required.



BIFOLD WINDOW

#### 2. BIFOLDING SHUTTERS

## Coastal Bifolding Shutter System for Doors and Windows

Louvretec Bifold Doors effortlessly slide open with panels following suit, neatly stacking against the wall.

#### Coastal Bifolding 100

Designed around a maximum panel weight of 100kg

#### Transom

A Transom is standard on all Coastal Bifolds.

#### Shutter Weight

Calculating the weight of a Coastal Bifold Shutter please allow 12-14 kg per sqm. This includes Louvres, Outer Frame Mullions and Transom.

## 2. BIFOLDING SHUTTERS Coastal Bifolding Shutter System (Continued)

#### Top Hung

All Coastal Series Bifolds are Top Hung.

As Multi-Panel Bifold Shutters can load considerable weight to the Top Track suitable fixing at the head is essential. Please contact Louvretec for specific weight loadings.

#### Mix & Match

The same Louvre infill operating options that are available to our Coastal Sliding Shutters are available to our Coastal Bifold Shutters. These being the KISS Pivot and End Fixed applications.

For more info refer to:

Coastal Bifolding 100 Pages 12.22 - 12.26



TYPICAL TOP HUNG DETAILS

#### 3. HINGED DOORS & GATES

#### Hinged Louvre Doors

Louvretec Hinged doors are available in a range of three different styles. Choose depending on durability requirements and door

Louvretec Hinged doors area available in three distinctive styles:

- Standard Hinged Doors
   Maximum size 2200mm (h) x 900mm (w)
- Heavy Duty Hinged Doors
   Maximum size 2500mm (h) x 900mm (w)
- Ultra Welded Hinged Doors
   Maximum size 3000mm (h) x 1300mm (w)

For more info refer to:

Coastal Standard Hinged Door Pages 12.27, 12.28, 12.30, 12.33 Coastal Heavy Duty Hinged Door Pages 12.27, 12.29, 12.30, 12.33 Coastal Ultra Welded Hinged Door Pages 12.27, 12.31, 12.32, 12.33



HEAVY DUTY HINGED DOOR



## **4**. HINGED LOUVRES & PLANTATION/AWNING STYLE SHUTTERS

### Hinged Louvre Windows

Hinged Louvered Windows use standard Hinged Door extrusions and components.



### Plantation/Awning Shutters

Plantation Shutters use standard hinged door extrusions and components.

For more info refer to: Coastal Hinged Louvres & Plantation Shutters Pages 12.34 & 12.35





HAND OPERABLE LOUVRE INFILLS USING THE KISS PIVOT SYSTEM



END FIXED LOUVRE

## YOUR CHOICE OF LOUVRE INFILL APPLICATION

1. The KISS Pivot System - For Hand operable Louvre Infills

For more info refer to: KISS Pivot System Pages 10.1.03

#### 2. End Fixed Louvre Infills

For more info refer to: End Fixed Louvres Pages 10.4.06 - 10.4.07

### COASTAL SHUTTERS LOUVRE INFILL OPTIONS Louvre Infills can be Hand Adjustable or End Fixed

### Hand Operable Shutter Infills; KISS Pivot System

The upgraded KISS Pivot System operates by the use of Double Drive Arms that sit flush against the frame when the Louvres are closed.

For added strength the flush fixed Slide-Lock sits within the Louvre Blade and features a Marine Grade Stainless Steel locking

Select from a choice of 4 louvre blades:

- · 90mm Midi
- · 150mm Midi
- · 95mm Bella Vista
- · 95mm Bella Vista Heavy



90MM MIDI



150MM MIDI



95 BELLA VISTA







HAND OPERABLE SHUTTER INFILLS KISS PIVOT SYSTEM

#### **End Fixed**

All of the KISS Pivot Louvre Blades shown above & listed below can be End Fixed:

- · 90mm Midi
- · 150mm Midi
- · 95mm Bella Vista
- · 95mm Bella Vista Heavy

As well as the following larger sized Louvre Blades:



120 AIRFOIL



125 WEATHERBOARD





**END FIXED LOUVRE SHUTTER** 





TOP HUNG SLIDING SHUTTERS

## COASTAL 120 TOP HUNG SLIDING SHUTTER & WINDOW

#### External Shutter Systems

Coastal 120 Sliders are designed for top hung sliding shutter doors and windows weighing up to a maximum finished panel weight of 120kg.

Typically allow between 12kg - 14kg per sqm when calculating weight of slider.

Contact Louvretec regarding structural design of panel.



COASTAL 120 TOP HUNG SLIDING SHUTTER



COASTAL 120 TOP HUNG SLIDING WINDOW

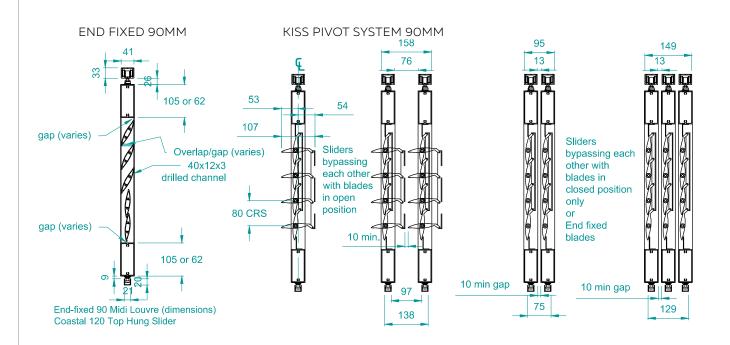


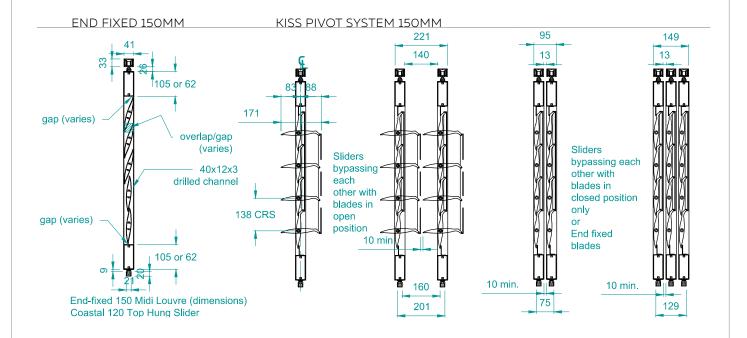




GUIDELINES AT A GLANCE - MAXIMUM PANEL SIZES

#### TYPICAL DETAIL: COASTAL 120 TOP HUNG SLIDING DOORS AND WINDOWS



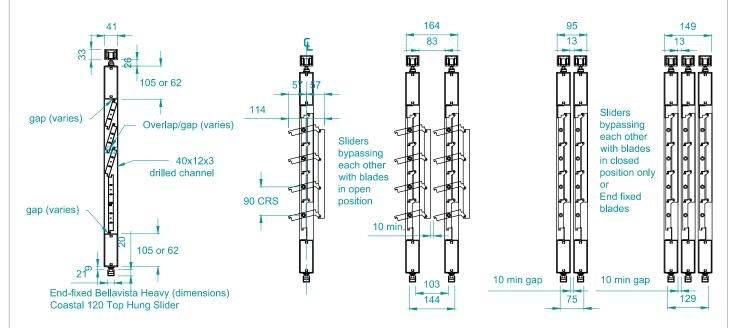




#### TYPICAL DETAIL: COASTAL 120 TOP HUNG SLIDING DOORS AND WINDOWS

#### END FIXED 95MM BELLA VISTA KISS PIVOT SYSTEM 95MM BELLA VISTA 164 95 149 83 13 13 و و 岡 105 or 62 113 gap (varies) Sliders Overlap(varies) Sliders bypassing bypassing each other 40x12x3 each other with blades drilled channel with blades in closed in open position 90 CRS gap (varies) position only 10 min End fixed blades 6 105 or 62 21 10 min gap 10 min gap 103 End-fixed Bellavista (dimensions) 75 129 144 Coastal 120 Top Hung Slider

#### END FIXED 95MM BELLA VISTA HEAVY KISS PIVOT SYSTEM 95MM BELLA VISTA HEAVY



SCALE: DATE MODIFIED: 01/10/2024 FILE: SHUTTERS 12.13 www.louvretec.co.nz www.louvretec.com.au



## COASTAL 250 TOP HUNG SLIDING SHUTTER & WINDOW

#### **External Shutters**

Heavy Duty Coastal 250 sliders are designed for top hung sliding windows and doors weighing up to a maximum finished panel weight of 250kg.

Typically allow between 12kg-14kg per sqm when calculating weight of slider. Larger panel sliders may require additional mullion and be subject to approved engineering to suit wind zone. Contact Louvretec regarding structural design of panel.



TAKAPUNA, NZ



COASTAL 250 TOP HUNG SLIDING SHUTTER



COASTAL 250 TOP HUNG TWO PANEL SLIDER

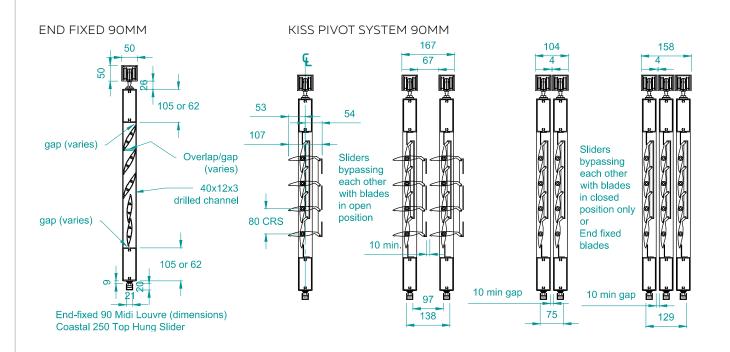


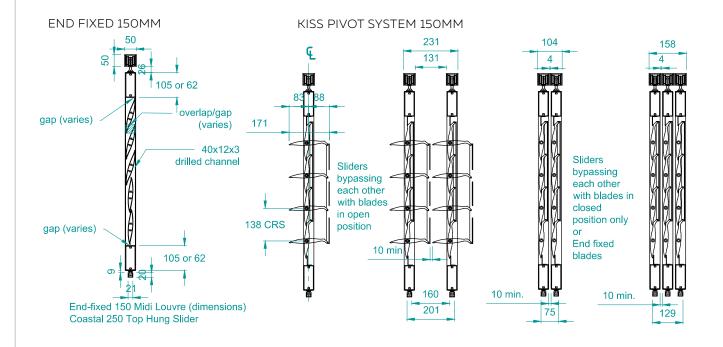




GUIDELINES AT A GLANCE - MAXIMUM PANEL SIZES

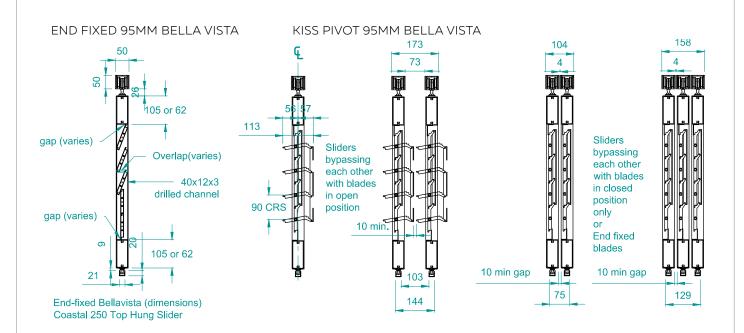
#### TYPICAL DETAIL: COASTAL 250 TOP HUNG SLIDING DOORS



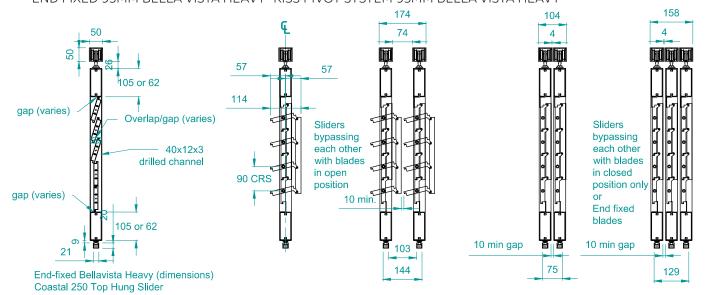




#### **TYPICAL DETAIL: COASTAL 250 TOP HUNG SLIDING DOORS**



#### END FIXED 95MM BELLA VISTA HEAVY KISS PIVOT SYSTEM 95MM BELLA VISTA HEAVY







AUCKLAND, NZ

# COASTAL 80 BOTTOM ROLLING SLIDING SHUTTERS

#### External Shutter Systems

Coastal 80 sliders are designed for bottom rolling windows and doors with a maximum finished panel weight of 80kg.

Typically allow between 12kg-14kg per sqm when calculating weight of slider.

Contact Louvretec regarding structural design of panel.



COASTAL 80 BOTTOM ROLLING SLIDING SHUTTER



COASTAL 80 BOTTOM ROLLING 3 PANEL SLIDING WINDOW



GUIDELINES AT A GLANCE - MAXIMUM PANEL SIZES



# COASTAL 200 BOTTOM ROLLING SLIDING SHUTTER

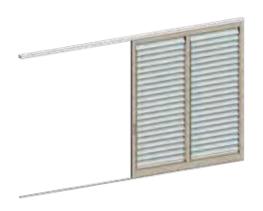
#### **External Shutters**

Heavy duty Coastal 200 sliders are designed for bottom rolling sliding windows and doors weighing up to a maximum finished panel weight of 200kg.

Typically allow between 12kg-14 kg per sqm when calculating weight of slider. Larger panel sliders may require additional mullion and be subject to approved engineering to suit wind zone. Contact Louvretec regarding structural design of panel.



SLIDING SHUTTER INFILLS



COASTAL 200 BOTTOM ROLLING SLIDING SHUTTER



COASTAL 200 BOTTOM ROLLING TWO PANEL SLIDING SHUTTER

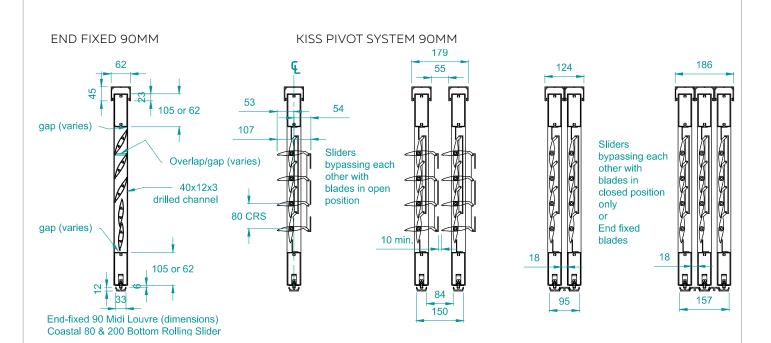






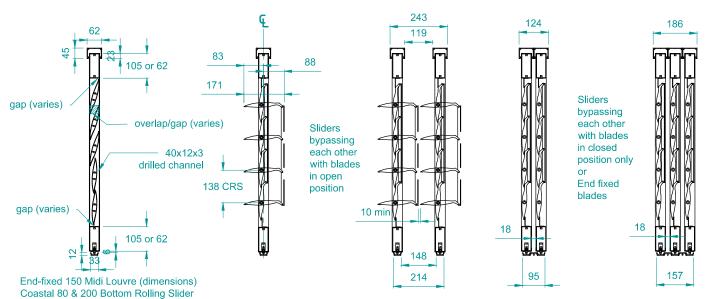
GUIDELINES AT A GLANCE - MAXIMUM PANEL SIZES

#### TYPICAL DETAIL: COASTAL 80 AND 200 BOTTOM ROLLING DOORS AND WINDOWS



### END FIXED 150MM

#### KISS PIVOT SYSTEM 150MM



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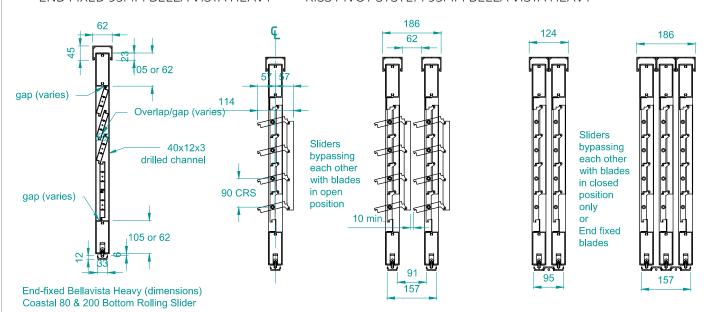
#### TYPICAL DETAIL: COASTAL 80 AND 200 BOTTOM ROLLING DOORS AND WINDOWS

#### END FIXED 95MM BELLA VISTA KISS PIVOT SYSTEM 95MM BELLA VISTA 185 124 186 61 105 or 62 113 gap (varies) Sliders Overlap(varies) bypassing Sliders each other bypassing with blades each other 40x12x3 with blades in closed drilled channel position in open 90 CRS position only or 10 min gap (varies) End fixed blades 105 or 62 90 157 156 End-fixed Bellavista (dimensions)

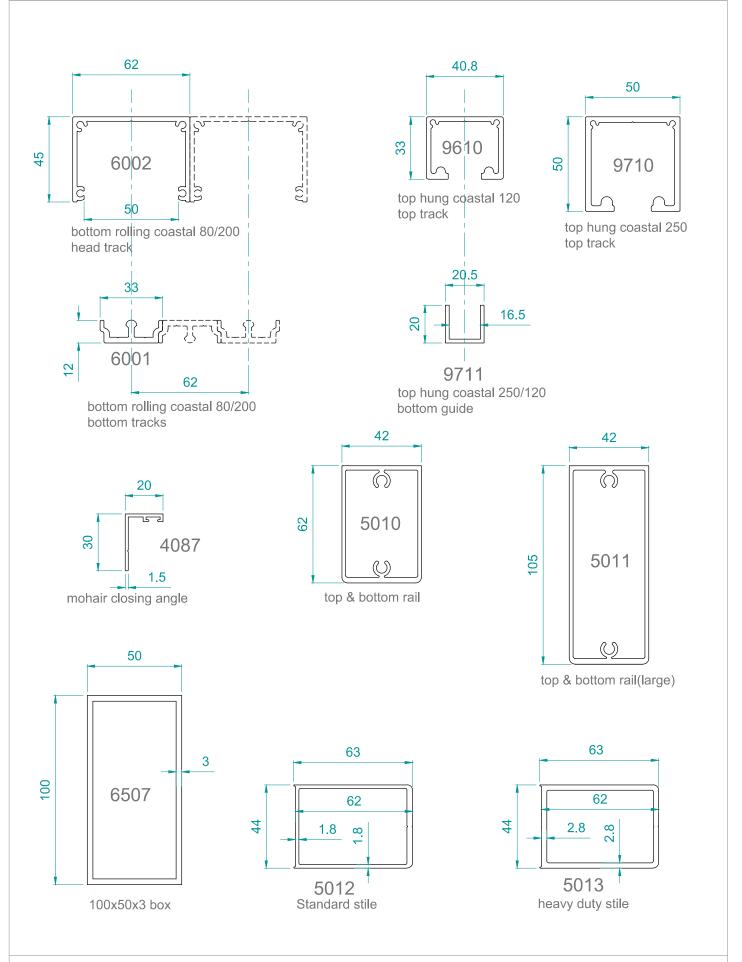
#### END FIXED 95MM BELLA VISTA HEAVY

Coastal 80 & 200 Bottom Rolling Slider

#### KISS PIVOT SYSTEM 95MM BELLA VISTA HEAVY



#### TYPICAL DETAIL: COASTAL SERIES ALUMINIUM SHUTTERS



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LouvreTec®

## COASTAL BIFOLDING 100 SHUTTER SYSTEM

## Bifolding Shutter System for Doors & Windows

Louvretec Bifold Doors effortlessly slide open with panels following suit, neatly stacking against the wall

#### Coastal Bifolding 100

Designed around a maximum panel weight of 100kg

#### Top Hung

All Coastal Series bifolds are top hung.

As multi-panel bifolds can load considerable weight to the top track suitable fixing at the head is essential - please contact Louvretec for specific weight loadings.

#### Transom

A transom is standard on all Coastal Bifolds.

#### Shutter Weight

Calculating the weight of a bifolding louvered shutter allow 12-14 kg per sqm. This includes louvres, outer frame mullions and transom.

#### Mix & Match

The same options that are available to our sliding shutters are available to our bifold shutters - these being the KISS Pivot and End Fixed.



BIFOLDING DOORS, BAY OF PLENTY, NZ



BIFOLDING DOORS, AUCKLAND, NZ



TYPICAL TOP HUNG DETAILS



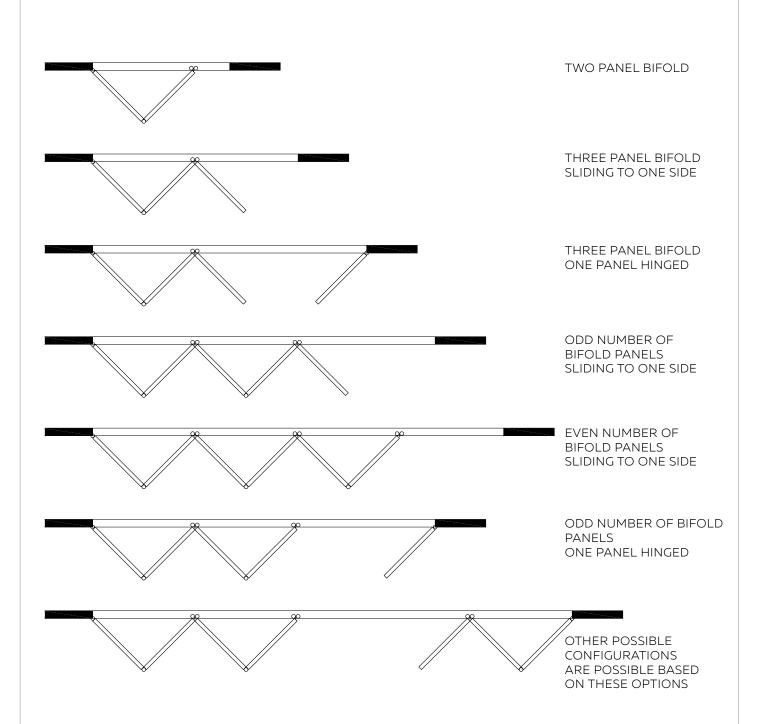
TWO PANEL BIFOLD DOORS



FOUR PANEL BIFOLD DOORS



#### TYPICAL DETAIL: COASTAL COASTAL BIFOLDING 100 TOP HUNG SLIDING DOORS



#### NOTES:

MAXIMUM LEAF WEIGHT 100KG MAXIMUM LEAF WIDTH 900MM MAXIMUM LEAF HEIGHT 3300MM

SCALE: DATE MODIFIED: 01/10/2024 FILE: **BIFOLD SHUTTERS 12.23** 

www.louvretec.com.au



# COASTAL BIFOLDING 100 DOORS

#### **External Shutters**

Coastal Bifolding 100 Shutters are designed for windows and door panels weighing up to a maximum finished panel weight of up to 100kg.

Typically allow 12-14kg per sqm when calculating weight of a Bifold panel.

Maximum panel size 3300mm (h) x 900mm (w)



NORTHLAND, NZ



COASTAL 100: 4 PANEL BIFOLDING DOOR WITH 90MM LOUVRE INFILLS

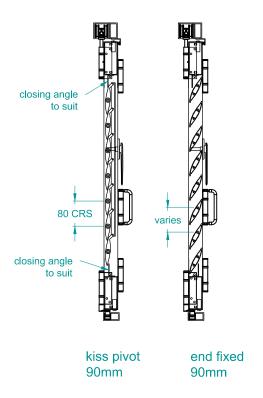


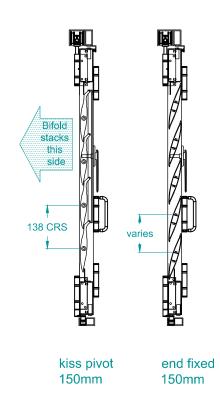
MAXIMUM PANEL SIZE: 3300X900 MAXIMUM PANEL WEIGHT: 100KGS

#### TYPICAL DETAIL: COASTAL BIFOLD 100 DOORS

#### 90MM KISS PIVOT & END FIXED

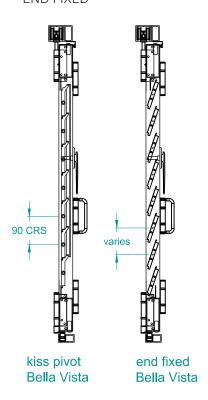
#### 150MM KISS PIVOT & END FIXED

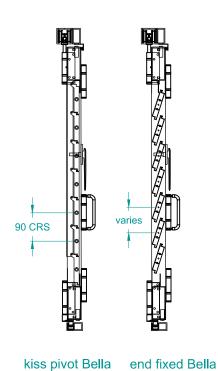




95MM BELLA VISTA KISS PIVOT & END FIXED

95MM BELLA VISTA HEAVY KISS PIVOT & END FIXED



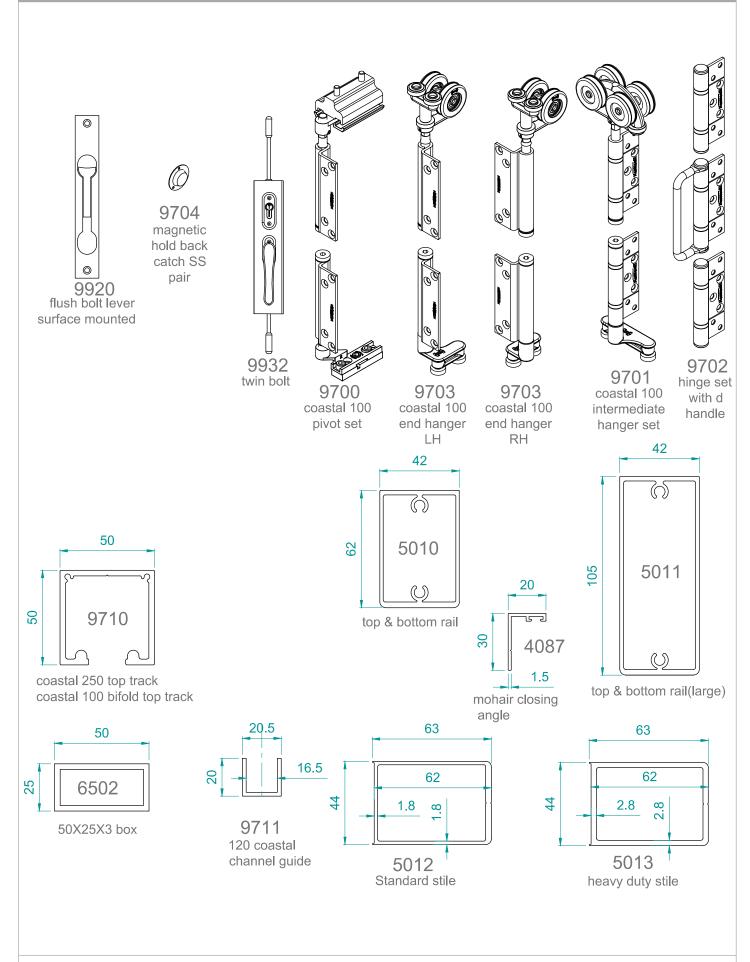


Vista heavy

www.louvretec.com.au

Vista heavy

#### TYPICAL DETAIL: COASTAL SERIES BIFOLD DOOR & WINDOW EXTRUSIONS & HARDWARE



## HINGED LOUVRE DOORS

### For Doors & Windows: Details at a glance

Louvretec Hinged doors are available in a range of three different styles. Choose depending on durability requirements and door size.

#### Hinged Louvre Doors

Louvretec Hinged doors area available in three distinctive styles:

#### 1. Standard Hinged Doors

Maximum sizes 2200mm (h) x 900mm (w) Refer to 12.28 & 12.30 for more info.



#### 1. STANDARD HINGED DOOR

#### 2. Heavy Duty Hinged Doors

Maximum sizes 2500mm (h) x 900mm (w) Refer to 12.29 & 12.30 for more info.



#### 2. HEAVY DUTY HINGED DOOR

#### 3. Ultra Welded Hinged Doors

Maximum sizes 3000mm (h)  $\times$  1300mm (w) Refer to 12.31 & 12.32 for more info.



3. ULTRA WELDED HINGED DOOR

## 1. STANDARD HINGED DOORS

#### **External Shutters**

Standard Hinged Doors are designed for a maximum panel size of 2200mm (h)  $\times$  900mm (w).

Heavy Duty 105mm top and bottom rails are used with both fixed and adjustable louvre infills. A transom is required for all adjustable louvre infills.

Available in one panel and two panel French Door configurations.



HINGED DOORS & PEDESTRIAN GATE



STANDARD HINGED DOOR



STANDARD HINGED DOOR RECOMMENDED MAX SIZES



OREWA BEACH, NZ

## 2. HEAVY DUTY HINGED DOORS

### External Shutter Systems

Standard Hinged Doors are designed for a maximum panel size of 2500mm (h) x 900mm (w).

Heavy Duty 105mm x 44mm top and bottom rails are used with both fixed and adjustable louvre infills. A transom is required for all adjustable louvre infills

Available in one panel and two panel French Door configurations.

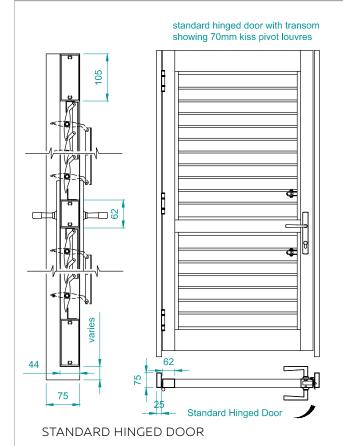


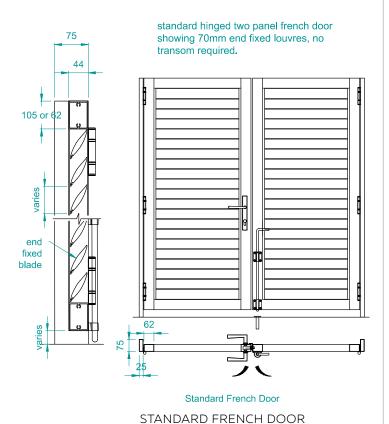
HEAVY DUTY HINGED DOOR



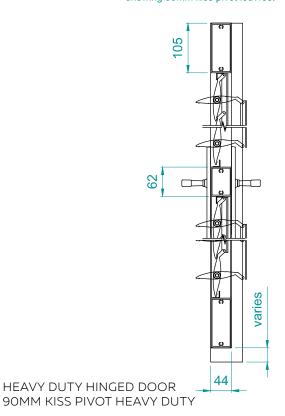
HEAVY DUTY HINGED DOOR RECOMMENDED MAXIMUM SIZE

#### TYPICAL DETAIL: COASTAL SERIES STANDARD & HEAVY DUTY HINGED DOORS

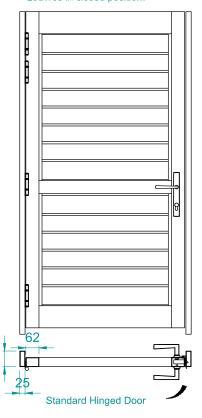




Standard hinged door with transom showing 90mm kiss pivot louvres.



heavy duty hinged door with transom Louvres in closed position.







NORTH SHORE, NZ

# 3. ULTRA WELDED HINGED DOORS & GATES

#### **External Shutters**

Ultra Welded Hinged Doors and Gates are designed for a maximum panel size of 3000mm (h)  $\times$  1300mm (w).

Heavy Duty 100mm x 50mm fully welded aluminium box section frame is used and if required heavy duty pivot hinges can be used. Top and bottom rails are used with both fixed and adjustable louvre infills. A transom is required for all adjustable louvre infills. Available in one panel and two panel configurations.

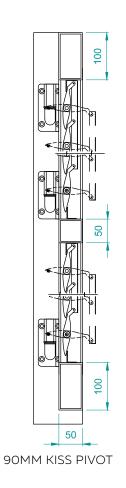


ULTRA WELDED HINGED DOOR WITH TRANSOM

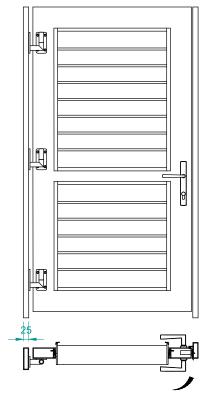


ULTRA WELDED HINGED DOOR - RECOMMENDED MAXIMUM SIZE

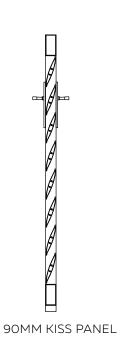
#### TYPICAL DETAIL: COASTAL SERIES ULTRA WELDED HINGED DOORS & GATES

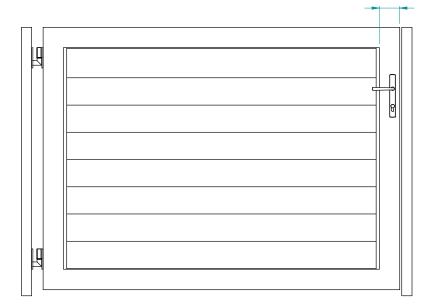


## welded hinged door with transom showing 90mm kiss pivot louvres



ULTRA WELDED HINGED DOOR





welded gate showing end fixed 150 midi louvres

50

50

56

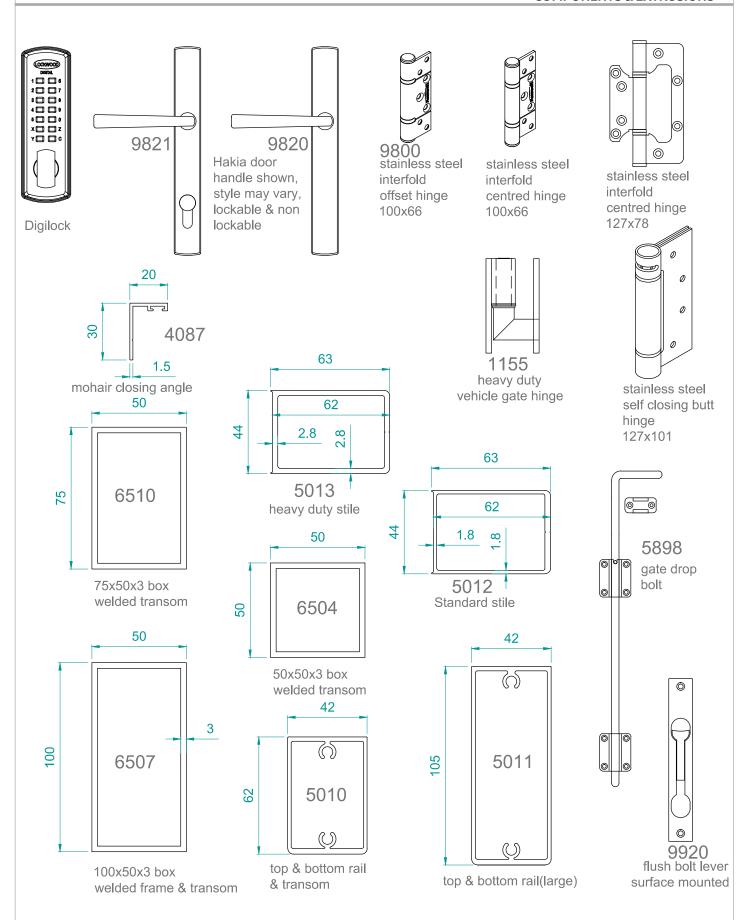
ULTRA WELDED HINGED GATE



FILE: SHUTTERS 12.32

DATE MODIFIED: 01/10/2024 SCALE: www.louvretec.com.au

## TYPICAL DETAIL: COASTAL SERIES HINGED LOUVERED DOORS & WINDOWS | PLANTATION SHUTTERS COMPONENTS & EXTRUSIONS



SCALE: DATE MODIFIED: 01/10/2024 FILE: SHUTTERS 12.33

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# HINGED LOUVRE & PLANTATION SHUTTERS

## Hinged Louvre Windows

Louvretec's Hinged louvre shutters and Plantation Shutters use standard hinged doors extrusions and componentry. Originally used in Plantation homes in the old south of America to assist with cooling, Louvretec Plantation Shutters bring a fresh, modern design when placed externally on a home or building.

Bringing both form and function, Hinged Louvre &/ Plantation Shutters let you enjoy your view, natural light & ventilation when open and heat reduction, sun and privacy control when closed.



PLANTATION SHUTTERS AUCKLAND, NZ





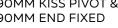
HINGED LOUVERED SHUTTER USING 90MM HAND ADJUSTABLE LOUVRE INFILLS



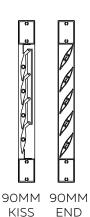
PLANTATION SHUTTERS IN OPEN POSITION

#### TYPICAL DETAIL: COASTAL SERIES HINGED LOUVRES & PLANTATION SHUTTERS

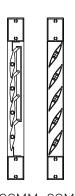
#### 90MM KISS PIVOT & 90MM END FIXED

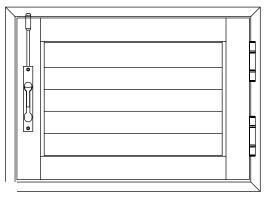






PIVOT FIXED

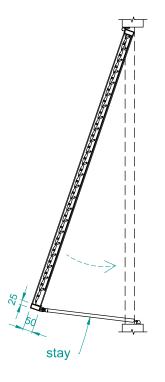




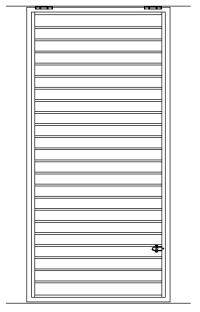
HINGED WINDOW SHOWN WITH 90MM KISS KISS END PIVOT & 90MM END FIXED PIVOT FIXED



#### KISS PIVOT



#### **PLANTATION SHUTTER**



PLANTATION SHUTTER PANEL SHOWN WITH WELDED PERIMETER FRAME AND 90MM KISS PIVOT LOUVRES

DATE MODIFIED: 01/10/2024 FILE: SHUTTERS 12.35

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#### 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\*

 $^{\star}$ 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

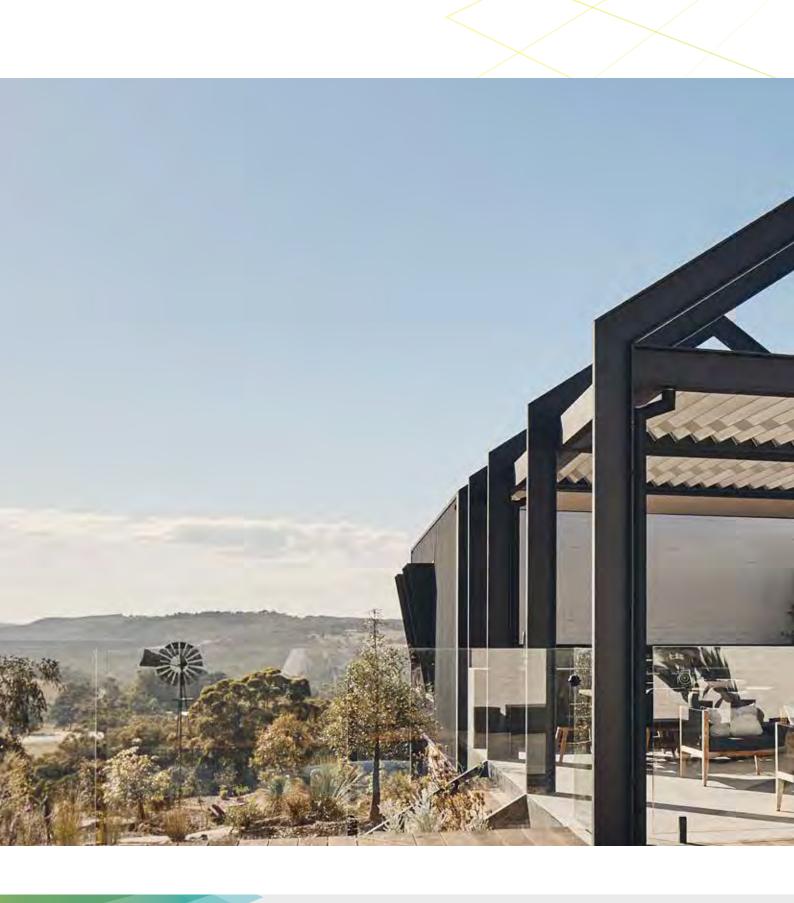


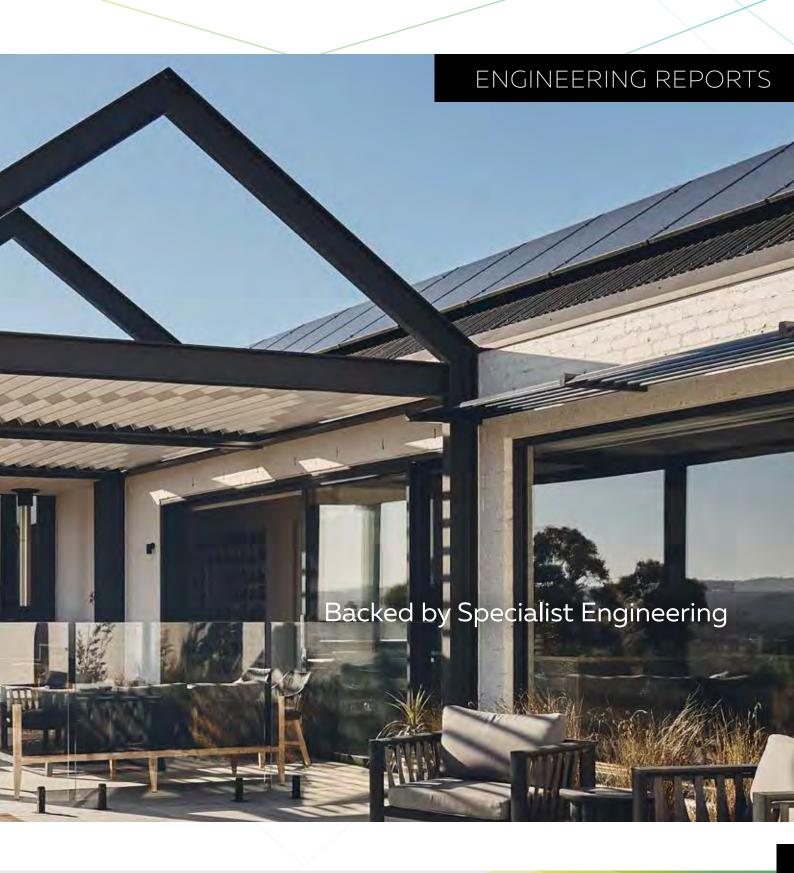
#### LOUVRETEC PRODUCT WARRANTY OPENING ROOFS - SUN LOUVRES - SHUTTERS All product installed by Louvretec (excluding Outoor Blinds - please refer separate warranty for this), or an Authorised Louvretec Installer, is from date of invoice, warranty fully warranted for the first two years. This warranty covers workmanship, louvres and all componentry, motors, switches and electronics with all labour costs details 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). Louvretec exclusively uses Somfy motors, switches and electronics. Somfy offers a 5-year warranty on all motorisation motors and electronics. Please contact Louvretec NZ or Somfy for a complete list of all terms and conditions. All aluminium louvres and extrusions used in Louvretec's systems are manufactured product in an ISO9002 quality assured environment to AS1866 & AS3902 standards. Marine materials grade T316 stainless steel is used for drive axles, with stainless steel componentry fixings being standard. Plastic injected moulded componentry is all UV stabilised A wide range of exterior powder coat finishes are available. Duralloy or equivalent is the standard finish supplied unless stated otherwise and this powdercoat carries a 10 year film and colour integrity warranty as per the Dulux Powder and finishes Industrial Coatings Warranty. If your project has used the Duratec powdercoat range please refer to the Dulux Powder and Industrial Coatings Warranty wording. anodised The current specifications re anodised aluminium range from 12-20-25 microns depth. The greater the microns the better the protection. With regular finishes cleaning anosided material will retain its original integrity for no less than 10 years. fully Our louvre systems are designed to conform to New Zealand and Australian standards wind loadings. Full engineering details available on request. engineered 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. cleaning 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 is a planned preventative maintenance louvrecare and valet service designed to keep your Louvretec LouvreCare ... product clean and in good working order. Contact your Louvretec Dealer for full details. Warranty effective from \_\_\_\_\_/\_\_\_ effective from Louvretec Representative \_\_\_\_ Print name \_ Site Adddress LOUVRETEC NZ LTD Head office: 23c Douglas Alexander Parade, Albany 0632, Auckland New Zealand T+64 9 415 4949 E info@louvretec.co.nz www.louvretec.com



## 13. ENGINEERING REPORTS

Engineering References & Design Info 13.04-13.05 Aluminium Beams & Post Structures 13.06 Engineering Specifiers Guide 13.07 Calculation Chart: Opening Roof Spans 13.08 Calculation Chart: Retract Roof Spans 13.09 Calculate Chart: Airfoil Sun Louvre Spans 13.10 Calculation Chart: Rectangular Louvre Spans 13.11 - 13.12 Tributary Length; Beam Calculations 13.13 - 13.14 Beam & Post Structures 13.15 - 13.17 Post Calculations 13.18 13.19 - 13.29 Posts & Footings 13.30 Base Plate Sizes Snow Loads 13.31 - 13.32





#### **ENGINEERING REFERENCES & DESIGN INFORMATION FOR LOUVRETEC SYSTEMS & SUPPORT FRAMES**

#### **ENGINEERING REFERENCES & DESIGN INFORMATION FOR LOUVRETEC SYSTEMS & SUPPORT FRAMES**

09 March 2025

The following calculations and design tables apply exclusively to LouvreTec Aluminium Louvre Systems and their supporting structures. Substitutions are not permitted.

Users must ensure they reference the most recent version of the design manual, as the calculations and tables are subject to updates in response to design code changes and amendments at the time of publication.

Maximum spans for aluminium members have been calculated based on wind zones and wind speeds derived from NZS 3604:2011, in alignment with AS/NZS 1170:2021. Ultimate Limit State (ULS) wind speeds are based on a 1-in-500-year return period and are applied at the building, with site exposure multipliers accounted for. Serviceability Limit State (SLS) wind speeds correspond to a 1-in-25-year return period. Associated wind pressures are determined using AS/NZS 1170.2:2021 – Structural Design Actions, Part 2: Wind Actions and are reduced to reflect the classification of louvre frames as Importance Level 1 structures. Section capacities are calculated in accordance with AS/NZS 1664.1:1997 – Aluminium Structures, Part 1: Limit State Design.

Deflection limits are as follows:

- Dead load deflections: Limited to span/250 for both louvres and beams, with an additional cap of 20mm for louvre dead load deflections.
- Wind load deflections: Restricted to span/40 for louvres, span/250 for beams and height/100 for posts.

Wind Zone	ULS Wind Speed (m/s)	(km/h)
Low	32	115
Medium	37	133
High	44	158
Very High	50	179
Extra High	55	198

The following load case combinations have been applied to the member loads

0.9G,W ULS uplift pressure

1.2G, W ULS downthrust pressure

G, W SLD for deflection

#### Notes:

When the louvre structure is to be attached to an existing building, care must be taken to ensure that supporting structure has adequate strength to carry the additional loads. If there is any doubt contact Louvretec for advice.



#### **ENGINEERING REFERENCES & DESIGN INFORMATION FOR LOUVRETEC SYSTEMS & SUPPORT FRAMES**

#### **CODES OF PRACTICE**

Design has been carried out using the following codes of practice:

Structural Design Actions:

Part O: General Principles - AS/NZS 1170.0:2002

Part 1: Permanent, imposed and other actions - AS/NZS 1170.1:2002

Part 2: Wind Actions - AS/NZS 1170.2.2021

Aluminium Structures:

Part 1: Limit state design - AS/NZS 1664.1: 1997

Timber-framed Buildings:

NZS 3604:2011

#### SPIRAL PIVOT SYSTEM LOAD TEST

Louvretec Products Ltd has conducted a static load test on the Spiral Pivot System. The test confirmed that the Spiral Pivot System is capable of resisting a downward static load greater than would be generated by the application of the structural design loads used in this publication to an equivalent structure. More detailed test information is available from Louvretec upon request.

#### CATEGORIES, TYPES AND INTENDED PURPOSES OF PRODUCER STATEMENTS

Design	PS1 Producer Statement Design	Used by designers to certify specific design elements comply with specified standards or codes in order to comply with the provisions of the Building Code.	
	PS2 Producer Statement Design Review	Used by people undertaking a peer review of all or part of a design to say that the design or the specified part of the design complies with specified standards or codes in order to comply with the provisions of the Building Code.	
Construction	PS3 Producer Statement Construction	Used by constructors or trades people to certify that the specified building work that they have undertaken complies with the building consent.	
	PS4 Producer Statement Construction Review	Used by people undertaking a peer review of specified building work undertaken by constructors or trades people to certify that the building work that has been undertaken complies with the building consent.	

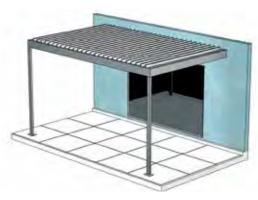
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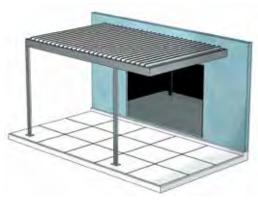
#### TYPICAL DETAIL: ALUMINIUM BEAM & POST STRUCTURES

#### THREE BASIC BEAM DESIGNS

#### // I.SIMPLY SUPPORTED



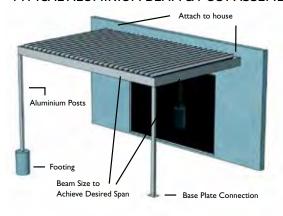
#### // 2. SINGLE CANTILEVER



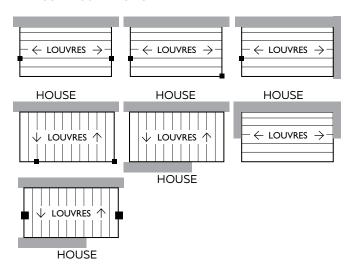
// 3. CONTINUOUS SPAN



#### TYPICAL ALUMINIUM BEAM & POST ASSEMBLY



#### **CONFIGURATIONS AVAILABLE**



ALUMINIUM BEAMS
150 x 150 x 3*
200 × 50 × 3*
225 x 50 x 3
2/225 x 50 x 3
250 x 50 x 3
2/250 × 50 × 3
300 x 50 x 3
2/300 x 50 x 3

<sup>\*</sup> REFER APPENDIX

### **ALUMINIUM POSTS** 75 x 75 x 3 100 × 100 × 3 100 × 100 × 5 150 x 150 x 3

**BEAM TYPES** 



225 x 50 x 3 2/225 x 50 x 3

\* REFER APPENDIX 250 x 50 x 3 2/250 x 50 x 3

300 x 50 x 3 2/300 x 50 x 3.5

#### **ENGINEERING SPECIFIERS GUIDE**

VNER'S 1				
	ON OF BUILDING WORK			
E ADDR				
GAL DES	SCRIPTION: LOT	DP		
	STEP 1 WIND ZONE		WIND ZONE  DETERMINE WIND ZONE FROM NZS 3604; 2011	
			(SECTION 5) L M H VH EH (Please circle one) OR PRESSURES FROM DESIGN CODES	
	STEP 2 STRUCTURAL TYPE &		STRUCTURAL TYPE & DIMENSIONS	
ORTS	DIMENSIONS PAGE 13.15-13.17	<u> </u>	DETERMINE STRUCTURE TYPE EITHER:  1) SIMPLY SUPPORTED (FIG 1 PG 13.15)  2) CANTILEVER (FIG 2 PG 13.15)  3) CONTINUOUS SPAN (FIG 3 PG 13.16)	<b>—</b>
ENGINEERING REPORTS			DETERMINE REQUIRED DIMENSIONS FROM APPROPRIATE FIGURE LOUVRE BEAM	
낊			SPAN:mm SPAN:mm	
Z	STEP 3 LOUVRE TYPE		LOUVRE TYPE	
ا ا	PAGES 13.08-13.12		CHOOSE LOUVRETEC LOUVRE TYPE FROM MANUAL LOUVRE	<b>←</b>
1			TYPE:VERTICAL HORIZONTAL Please Tick One	
NOIT			CHECK MAX SPAN FROM TABLES 1-4, PAGES 13.08-13.12	NOT OV over enen
SEC	STEP 4 PEAM			NOT OK, over span (choose alternative louvre type or alter
ESIGN MANUAL SECTION 13	STEP 4 BEAM SIZE PAGES 13.13-13.17		DEFAM SIZE  DETERMINE TRIBUTARY LENGTH FOR BEAM.  DESIGN - REFER APPROPRIATE LOUVRE AND BEAM  DESIGN CALCULATIONS. FIG. 1-5 ON PAGES 13.15-17	structure to suit)
Σ Z U	NOT OK, ove span or over loaded (incr	r 📗	TRIBUTARY LENGTH:mm	
	beam size of structure to	r alter	DETERMINE BEAM SIZE FROM PAGES 13. 13-14	
EC D	Silucture to	Suit)	BEAM SIZE:mm	
ALL PAGES REFER TO CURRENT LOUVRETEC	STEP 5 POST SIZE PAGES 13.18-13.26		POST SIZE  DETERMINE TRIBUTARY AREA (ROOF AREA)  TRIBUTARY EDGE LENGTH AND POST HEIGHT REFER PAGES 13.19-13.20	
Z			TRIB. ROOF AREA: L _x	NOT OK, over
RRE			TRIB. EDGE LENGTH:mm  POST HEIGHT:mm	height (increase structure to reduce
R TO CU			SPECIFY POST SIZE FROM APPROPRIATE TABLE FOR SPECIFIED WIND ZONE REFER PAGES 13.22-13.26 POST SIZE:	roof area or add extra post)
EFE	CTED		ОК	
AGES R	STEP 6 FOOTING SIZE PAGES 13.27-13.29		FOOTING SIZE  MEASURE TRIBUTARY AREA LOADING POST.  TRIBUTARY AREA:	
L P,			REFER APPROPRIATE FIGURE PAGES 13.19-13.20	NOT OK, too large (alter structure to
Α			DETERMINE REQUIRED CONCRETE VOLUME FROM PG 13.27 CHOOSE APPROPRIATE FOOTING SIZE	reduce roof area or add extra post)
			CONCRETE VOLUME:	

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#### **TABLE 1: CALCULATE OPENING ROOF SPANS**



## OVERHEAD ADJUSTABLE OPENING ROOF



#### **REFER STUDIO 89 PS1**

WIND ZONE	L	М	Н	VH	EH
Ultimate design factored wind speed at building	115km/h	133km/h	158km/h	179km/h	198km/h
	32 m/s	37 m/s	44 m/s	50 m/s	55 m/s

ROOF LOUVRE (3m ROOF HEIGHT)	L	М	Н	VH	EH
180/30 SLIMLINE ROOF	4000	4000	3750	3200	2850
200/35 SLIMLINE ROOF	4500	4500	4500	4300	4000
220/35 SLIMLINE ROOF (RETRACT COMPATIBLE)	4300	4300	4200	4000	3500
220/45 ALPINE ROOF (RETRACT COMPATIBLE)	5000	5000	5000	5000	5000
SUBURBAN ROOF	4500	4500	4000	3600	3300
TRANSLUCENT ##	4500	4500	4000	3500	3250

ROOF LOUVRE (6m ROOF HEIGHT)	L	М	Н	VH	EH
180/30 SLIMLINE ROOF	4500	4500	3800	3300	3000
200/35 SLIMLINE ROOF	4500	4500	4400	4000	3800
220/35 SLIMLINE ROOF (RETRACT COMPATIBLE)	4300	4300	4050	3500	3150
220/45 ALPINE ROOF (RETRACT COMPATIBLE)	5000	5000	5000	5000	4700
SUBURBAN ROOF	4500	4500	3800	3250	3000
270 TRANSLUCENT ROOF	4500	4500	3550	3250	3000



#### OVERHEAD RETRACT ROOF



#### **REFER STUDIO 89 PS1**

WIND ZONE	L	М	н	VH	EH
Ultimate design factored wind speed at building	115km/h	133km/h	158km/h	179km/h	198km/h
	32 m/s	37 m/s	44 m/s	50 m/s	55 m/s

RETRACT ROOF LOUVRE (3m ROOF HEIGHT)	L	М	Н	VH	EH
220/35 SLIMLINE ROOF (SPIRAL COMPATIBLE)	4300	4300	4200	4000	3500
220/45 ALPINE ROOF (SPIRAL COMPATIBLE)	5000	5000	5000	5000	5000

RETRACT ROOF LOUVRE (6m ROOF HEIGHT)	L	М	Н	VH	EH
220/35 SLIMLINE ROOF (SPIRAL COMPATIBLE)	4300	4300	4050	3500	3150
220/45 ALPINE ROOF (SPIRAL COMPATIBLE)	5000	5000	5000	5000	4700

#### **SNOW LOADS**

REFER ENGINEERING SECTION, PAGES 13.31 & 13.32 for Snow Load information.

SCALE: DATE MODIFIED: 01/10/2024 FILE: **ENGINEERING REPORTS 13.09** 

#### **TABLE 2: CALCULATE SUN LOUVRES RL SPANS**



#### SUN LOUVRE APPLICATIONS:



OVERHEAD ADJUSTABLE & FIXED



HORIZONTAL WALL ADJUSTABLE & FIXED



VERTICAL WALL ADJUSTABLE & FIXED

#### **REFER MARKPLAN PS1**

#### LOUVRETEC SUN LOUVRES CAN BE END FIXED OR BRACKET FIXED

WIND ZONE	INSIDE (SELF WT)	L	М	Н	VH	EH
Ultimate design factored wind speed at building		115km/h	133km/h	158km/h	179km/h	198km/h
		32 m/s	37 m/s	44 m/s	50 m/s	55 m/s

AIRFOIL SUN LOUVRE	INSIDE (SELF WT)	L	М	Н	VH	ЕН
90MM KISS PIVOT MIDI LOUVRE	2350	2000	1850	1600	1500	1400
150MM KISS & SPIRAL PIVOT MIDI LOUVRE	2900	2750	2500	2200	2000	1900
120MM AIRFOIL LOUVRE	2400	2300	2100	1850	1700	1600
180MM AIRFOIL LOUVRE	3100	2950	2700	2400	2200	2050
200MM MAXI LOUVRE	3700	3700	3550	2950	2600	2350
300MM MAXI LOUVRE	4800	4800	4800	4200	3700	3350
600MM MAXI LOUVRE	> 5800	5800	5600	4700	4100	3700

#### **TABLE 3: CALCULATE SUN LOUVRES RECTANGULAR SPANS**



#### SUN LOUVRE APPLICATIONS:



OVERHEAD ADJUSTABLE & FIXED



#### HORIZONTAL WALL ADJUSTABLE & FIXED



VERTICAL WALL ADJUSTABLE & FIXED

#### **REFER MARKPLAN PS1**

LOUVRETEC SUN LOUVRES CAN BE END FIXED OR BRACKET FIXED

WIND ZONE	INSIDE (SELF WT)	L	М	н	VH	EH
Ultimate design factored wind speed at building		115km/h	133km/h	158km/h	179km/h	198km/h
		32 m/s	37 m/s	44 m/s	50 m/s	55 m/s

RECTANGULAR SUN LOUVRE	INSIDE (SELF WT)	L	М	Н	VH	EH
120MM FLUSH MINI	2600	2500	2300	2050	1900	1750
180MM FLUSH MIDI	3500	3350	3000	2650	2450	2250
200MM FLUSH MAXI	3500	3350	3000	2650	2450	2250
125MM WEATHERBOARD	2600	2500	2300	2050	1900	1750
180MM WEATHERBOARD \$ \$	3200	3050	2800	2500	2300	2100
150MM WEATHERBOARD \$	3200	3050	2750	2400	2200	2050
95MM BELLA VISTA TO CONTROL TO CO	2550	2100	1900	1700	1550	1450
95MM BELLA VISTA HEAVY	3000	2800	2550	2250	2050	1900
135MM HI-SPAN	4850	4400	4400	4100	3700	3500
165MM HI-SPAN <b>346 346</b>	4950	4500	4500	4200	3800	3500

#### NEW FULL HEIGHT OPERABLE OR FIXED BALUSTRADE LOUVRES



135MM 135MM HI-SPAN NZ COMPLIANT - MAX OPENING BETWEEN BLADES NO WIDER THAN 100MM 165MM HI-SPAN 165MM HI-SPAN AUSTRALIA COMPLIANT - MAX OPENING BETWEEN BLADES NO WIDER THAN 125MM

3000

3300

3000

3300

3000

3300

3000

3300

3000

3000

3300 3300

#### **TABLE 4: CALCULATE SUN LOUVRES RL SPANS**



#### NOTE: ALL LOUVRETEC SUN LOUVRES CAN BE END FIXED OR BRACKET FIXED





HORIZONTAL WALL ADJUSTABLE & FIXED



VERTICAL WALL ADJUSTABLE & FIXED

#### REFER MARKPLAN PS1

LOUVRETEC SUN LOUVRES	CAN ALSO BE END FIXEL	OR BRACKET FIXED

WIND ZONE		INSIDE (SELF WT)	L	М	н	VH	EH
Ultimate design factored wind speed at building			115km/h	133km/h	158km/h	179km/h	198km/h
			32 m/s	37 m/s	44 m/s	50 m/s	55 m/s
RL SUN LOUV	/RE	INSIDE (SELF WT)	L	М	Н	VH	EH
RL 300 SQUARE		5800	5800	5800	5150	4500	4050
RL 450 SQUARE		5800	5800	5800	5150	4500	4050
RL 600 SQUARE		5800	5800	5800	5150	4500	4050
RL 300 MITIRED		5800	5800	5800	5150	4500	4050
RL 450 MITRED		5800	5800	5800	5150	4500	4050
RL 600 MITRED		5800	5800	5800	5150	4500	4050
75 X 45 RHS BEAM WITH SCREW PORTS	w w	5950	5950	5950	5950	5700	5150
100 X 50 X 3 RHS BEAM		6450	6450	6450	6450	6250	5600
150 X 50 X 3 BEAM WITH SCREW PORTS		5800	5800	5800	5150	4500	4050
200 X 50 X 3 RHS BEAM		6450	6450	6450	5600	4900	4400
225 X 50 X 3 RHS BEAM		6450	6450	6150	5250	4600	4150
250 X 50 X 3 RHS BEAM		6450	6450	5850	4950	4350	3900
300 X 50 X 3 RHS BEAM		6450	6400	5700	4900	4250	3850

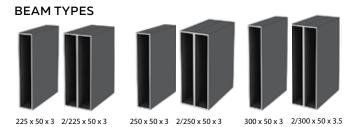
## TABLE 5: TO CALCULATE TRIBUTARY LENGTH FOR BEAMS CHART: BEAM CALCULATIONS SINGLE STORY UP TO 3 METRE ROOF HEIGHT. REFER STUDIO 89 PS1



#### **DETERMINING THE TRIBUTARY LENGTH**

Typically the tributary length for simply supported beams only is half the length of the louvres span. Determining the tributary length is shown through figures 1-5 on pages 13.15-17 of this Engineering section.

Note: Care must be taken when cacluating the tributary length for beams on continuous spanning structures as half of the louvre span on either side of the beam may not be equal.



\* REFER APPENDIX

Fix double beams together with  $2/10g \times 25mm$  S/S pan head self tapping screws 50mm in from top and bottom of box sections at 900mm centres.

Use continuous flexible sealant/adhesive along top and bottom between box sections.

TABLE 5 - BEA	M CALCULATIONS SING	GLE STO	DRY UP	то зм														
ULS	Max Beam Span (mm)																	
WIND ZONE	Tributary Length	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
	225x50x3 RHS	6.48	6.04	5.73	5.45	5.23	5.04	4.86	4.72	4.59	4.48	4.37	4.27	4.18	4.09	4.01	3.95	3.88
+0.92	250x50x3 RHS	6.95	6.64	6.28	5.99	5.74	5.53	5.35	5.18	5.03	4.91	4.79	4.68	4.59	4.5	4.41	4.34	4.26
LOW	2-250x50x3 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.85	6.67	6.49	6.34	6.20	6.08	5.96	5.87	5.77	5.68
-1.15	300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.83	6.60	6.41	6.24	6.06	5.92	5.80	5.68	5.56	5.46	5.35	5.21
-1.15	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
+1.23	225x50x3 RHS	6.36	5.94	5.63	5.35	5.14	4.96	4.78	4.63	4.51	4.41	4.30	4.19	4.10	4.03	3.95	3.88	3.83
+1.23	250x50x3 RHS	6.95	6.54	6.18	5.89	5.65	5.42	5.26	5.11	4.96	4.82	4.71	4.61	4.50	4.43	4.35	4.26	4.20
MEDIUM	2-250x50x3 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.92	6.74	6.55	6.40	6.24	6.11	5.99	5.88	5.76	5.66	5.56
-1.53	300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.72	6.50	6.30	6.14	5.97	5.83	5.70	5.58	5.46	5.37	5.26	5.14
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.88
.174	225x50x3 RHS	6.18	5.75	5.41	5.15	4.92	4.7	4.46	4.26	4.08	3.92	3.78	3.65	3.54	3.43	3.33	3.25	3.16
+1.74	250x50x3 RHS	6.79	6.30	5.94	5.64	5.40	5.14	4.87	4.65	4.45	4.28	4.13	3.99	3.86	3.75	3.64	3.55	3.46
HIGH	2-250x50x3 RHS	6.95	6.95	6.95	6.95	6.95	6.88	6.64	6.44	6.24	6.00	5.79	5.60	5.42	5.26	5.12	4.98	4.86
-2.17	300x50x3.5 RHS	6.95	6.95	6.95	6.93	6.49	6.12	5.81	5.54	5.31	5.10	4.92	4.75	4.60	4.46	4.34	4.22	4.12
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.81	6.61	6.43	6.26	6.11
	225x50x3 RHS	5.50	5.10	4.80	4.57	4.28	4.03	3.83	3.65	3.5	3.36	3.24	3.13	3.04	2.95	2.86	2.79	2.72
+2.24	250x50x3 RHS	6.04	5.60	5.27	4.99	4.67	4.41	4.18	3.99	3.82	3.68	3.54	3.42	3.32	3.22	3.13	3.04	2.97
VERY HIGH	2-250x50x3 RHS	6.95	6.95	6.95	6.64	6.35	6.13	5.85	5.59	5.36	5.15	4.97	4.81	4.66	4.52	4.40	4.28	4.18
-2.80	300x50x3.5 RHS	6.95	6.93	6.41	5.94	5.56	5.25	4.99	4.76	4.56	4.38	4.22	4.08	3.95	3.83	3.73	3.63	3.54
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.73	6.48	6.25	6.04	5.85	5.68	5.53	5.38	5.25
	225x50x3 RHS	5.05	4.70	4.41	4.09	3.83	3.62	3.43	3.28	3.14	3.02	2.91	2.81	2.72	2.64	2.57	2.5	2.44
+2.71	250x50x3 RHS	5.54	5.16	4.82	4.47	4.18	3.95	3.75	3.58	3.43	3.29	3.18	3.07	2.97	2.88	2.8	2.73	2.66
EXTRA HIGH	2-250x50x3 RHS	6.95	6.80	6.44	6.12	5.84	5.52	5.25	5.01	4.80	4.62	4.46	4.31	4.18	4.05	3.94	3.84	3.74
-3.39	300x50x3.5 RHS	6.87	6.27	5.74	5.32	4.99	4.71	4.47	4.26	4.08	3.93	3.78	3.66	3.54	3.44	3.34	3.25	3.17
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.94	6.59	6.30	6.04	5.81	5.60	5.42	5.25	5.09	4.95	4.82	4.70

#### PLEASE NOTE:

Aluminium Beams have been limited to 6.95m in length.

This is the maximum practical length for extruding and powdercoating.

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## TABLE 6: TO CALCULATE TRIBUTARY LENGTH FOR BEAMS CHART: BEAM CALCULATIONS DOUBLE STORY UP TO 6 METRE ROOF HEIGHT. REFER STUDIO 89 PS1



#### **DETERMINING THE TRIBUTARY LENGTH**

Typically the tributary length for simply supported beams only is half the length of the louvres span. Determining the tributary length is shown through figures 1-5 on pages 13.15-17 of this Engineering section.

Note: Care must be taken when cacluating the tributary length for beams on continuous spanning structures as half of the louvre span on either side of the beam may not be equal.

#### **BEAM TYPES**







\* REFER APPENDIX

Fix double beams together with  $2/10g \times 25mm \text{ S/S}$  pan head self tapping screws 50mm in from top and bottom of box sections at 900mm centres.

Use continuous flexible sealant/adhesive along top and bottom between box sections.

TABLE 6 - BEA	TABLE 6 - BEAM CALCULATIONS DOUBLE STORY UP TO 6M																	
ULS	Max Beam Span (mm)																	
WIND ZONE	Tributary Length	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
	225x50x3 RHS	6.48	6.05	5.73	5.44	5.24	5.04	4.86	4.73	4.59	4.47	4.36	4.26	4.17	4.11	4.03	3.96	3.88
+0.92	250x50x3 RHS	6.95	6.63	6.27	5.98	5.73	5.52	5.33	5.18	5.04	4.91	4.78	4.68	4.59	4.48	4.41	4.33	4.27
LOW	2-250x50x3 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.85	6.67	6.49	6.35	6.21	6.09	5.97	5.87	5.76	5.66
-1.15	300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.78	6.57	6.38	6.20	6.05	5.91	5.77	5.65	5.55	5.44	5.33	5.2
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
	225x50x3 RHS	6.38	5.95	5.62	5.36	5.15	4.95	4.79	4.60	4.40	4.23	4.08	3.94	3.82	3.70	3.60	3.50	3.42
+1.23	250x50x3 RHS	6.95	6.53	6.19	5.88	5.64	5.43	5.25	5.02	4.81	4.62	4.46	4.30	4.17	4.05	3.93	3.83	3.73
MEDIUM	2-250x50x3 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.93	6.72	6.54	6.39	6.25	6.08	5.89	5.71	5.55	5.41	5.27
-1.53	300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.93	6.64	6.30	6.00	5.75	5.52	5.32	5.14	4.98	4.83	4.69	4.57	4.45
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.82	6.64
.474	225x50x3 RHS	5.57	5.19	4.87	4.64	4.36	4.11	3.90	3.72	3.57	3.43	3.31	3.19	3.09	3.00	2.92	2.84	2.77
+1.74	250x50x3 RHS	6.12	5.68	5.35	5.08	4.76	4.49	4.26	4.07	3.90	3.75	3.61	3.49	3.38	3.28	3.19	3.10	3.03
HIGH	2-250x50x3 RHS	6.95	6.95	6.95	6.74	6.45	6.21	5.97	5.7	5.46	5.25	5.07	4.90	4.75	4.61	4.48	4.36	4.26
-2.17	300x50x3.5 RHS	6.95	6.95	6.56	6.08	5.69	5.37	5.09	4.86	4.65	4.47	4.31	4.16	4.03	3.91	3.8	3.70	3.61
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.86	6.60	6.37	6.16	5.97	5.79	5.63	5.48	5.35
	225x50x3 RHS	4.98	4.64	4.33	4.02	3.76	3.55	3.37	3.22	3.08	2.96	2.85	2.76	2.67	2.59	2.52	2.45	2.39
+2.24	250x50x3 RHS	5.48	5.10	4.73	4.39	4.11	3.88	3.68	3.51	3.36	3.23	3.12	3.01	2.92	2.83	2.75	2.68	2.61
VERY HIGH	2-250x50x3 RHS	6.95	6.71	6.34	6.03	5.73	5.42	5.15	4.92	4.72	4.54	4.38	4.23	4.10	3.98	3.87	3.77	3.68
-2.80	300x50x3.5 RHS	6.81	6.18	5.65	5.24	4.91	4.63	4.39	4.19	4.02	3.86	3.72	3.59	3.48	3.38	3.28	3.20	3.12
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.95	6.95	6.81	6.47	6.18	5.93	5.70	5.50	5.32	5.15	5.00	4.86	4.74	4.62
+2.71	225x50x3 RHS	4.61	4.25	3.89	3.61	3.38	3.19	3.03	2.89	2.77	2.66	2.57	2.48	2.4	2.33	2.27	2.21	2.15
72./1	250x50x3 RHS	5.07	4.64	4.25	3.94	3.69	3.49	3.31	3.16	3.03	2.91	2.80	2.71	2.62	2.55	2.48	2.41	2.35
EXTRA HIGH	2-250x50x3 RHS	6.66	6.22	5.88	5.49	5.16	4.87	4.63	4.42	4.24	4.08	3.94	3.81	3.69	3.58	3.48	3.39	3.31
-3.39	300x50x3.5 RHS	6.19	5.55	5.08	4.71	4.41	4.16	3.95	3.77	3.61	3.47	3.34	3.23	3.13	3.04	2.95	2.87	2.8
	2-300x50x3.5 RHS	6.95	6.95	6.95	6.90	6.48	6.12	5.82	5.56	5.33	5.13	4.95	4.78	4.63	4.50	4.37	4.26	4.15

#### PLEASE NOTE:

Aluminium Beams have been limited to 6.95m in length.

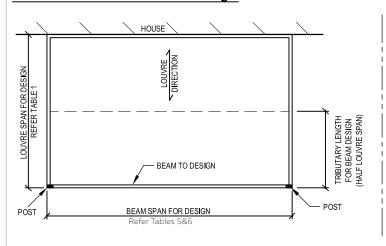
This is the maximum practical length for extruding and powdercoating.

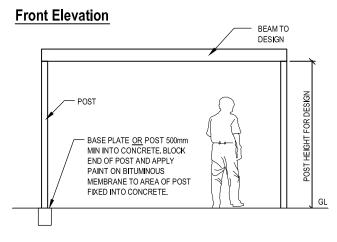


#### TECHNICAL DETAILS: STRUCTURE ATTACHED TO HOUSE - TYPICAL STRUCTURE

#### TYPICAL DETAIL | SIMPLY SUPPORTED BEAM, FIGURE 1

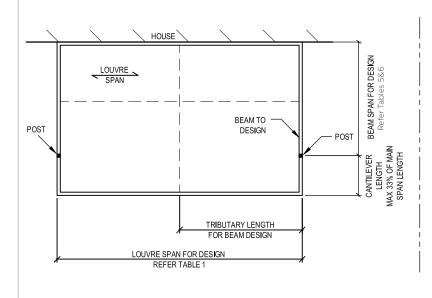
#### Plan view / Louvre and Beam Design



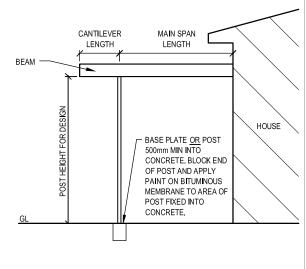


#### TYPICAL DETAIL // SIMPLY SUPPORTED BEAM, FIGURE 2

#### Plan view / Louvre and Beam Design



#### **Front Elevation**



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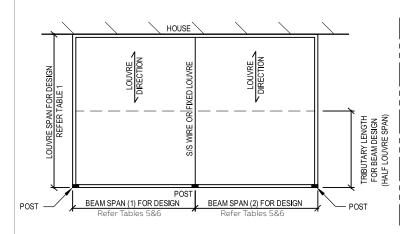
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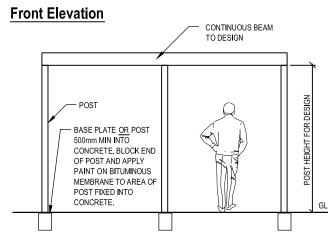
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#### TECHNICAL DETAILS: STRUCTURE ATTACHED TO HOUSE - TYPICAL STRUCTURE

#### TYPICAL DETAIL | CONTINUOUS BEAM SPAN OPTION 1, FIGURE 3

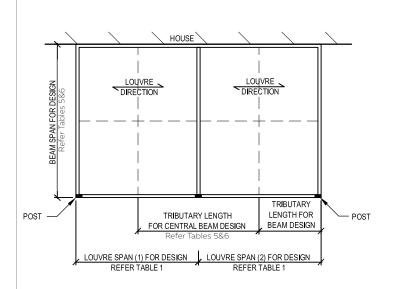
#### Plan view / Louvre and Beam Design



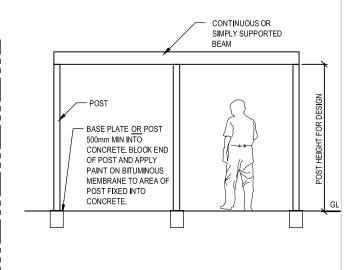


#### TYPICAL DETAIL // CONTINUOUS BEAM SPAN, OPTION 2, FIGURE 4

#### Plan view / Louvre and Beam Design



#### **Front Elevation**

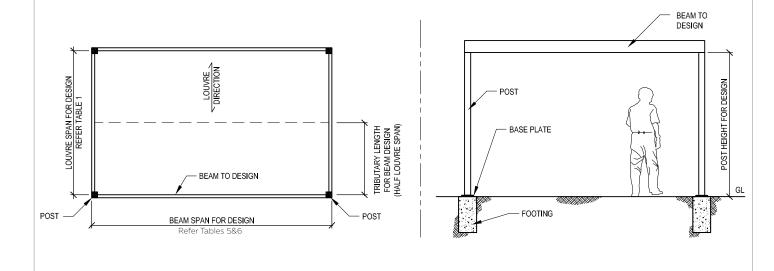




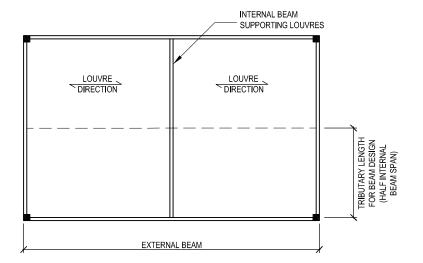
#### TYPICAL DETAIL // SIMPLY SUPPORTED BEAM, FIGURE 5

#### Plan view / Louvre and Beam Design

#### **Front Elevation**



#### TYPICAL DETAIL // SIMPLY SUPPORTED EXTERNAL BEAM WITH INTERNAL CONNECTED BEAM



#### **NOTES**

1. WHERE AN EXTERNAL BEAM SUPPORTS ONE INTERNAL BEAM THAT SUPPORTS THE LOUVRES, THE EXTERNAL BEAM SHOULD BE DESIGNED USING A LOUVRE TRIBUTARY LENGTH EQUAL TO HALF OF THE LENGTH OF THE INTERNAL BEAM. THE INTERNAL BEAM SHALL BE DESIGNED AS A TYPICAL BEAM SUPPORTING LOUVRES.

2. THE INTERNAL BEAM CAN BE LOCATED ANYWHERE ALONG THE LENGTH OF THE EXTERNAL BEAM.

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#### **CHART: POST CALCULATION**

#### **SPECIFIYING POSTS**

To use the following tables you need to know the Tributary Area (Roof Area) on the post, the Tributary Edge Length ( $L_E$ ) and the height of the post. For Tributary Area and Tributary Edge refer to page 19.

#### **POST LOADS**

Wind speeds taken from NZS 3604; 2011, are ultimate limit state wind speeds

L = Low wind speed
 M = Medium wind speed
 H = High wind speed
 VH = Very high wind speed
 EH = Extra high wind speed

	ULS (d	capacit	y)			SLS (deflection)						
Wind Zone	L	М	Н	VH	EH	L	М	Н	VH	EH		
Factored design wind speed at building (m/s)	32	37	44	50	55	27	31	37	42	46		
Drag pressure on beam (kPa) (for C <sub>fig</sub> = 1.45)	0.74	0.99	1.40	1.81	2.18	0.54	0.71	1.01	1.30	1.55		
Drag pressure on roof (kPa) (for C <sub>fig</sub> = 0.04)	0.02	0.03	0.04	0.05	0.06	0.01	0.02	0.03	0.04	0.04		



#### TYPICAL DETAIL | SIMPLY SUPPORTED BEAM (FIGURE 6) AND CANTILEVERED BEAM (FIGURE 7)

FIGURE 6
PLAN VIEW SIMPLY SUPPORTED BEAM

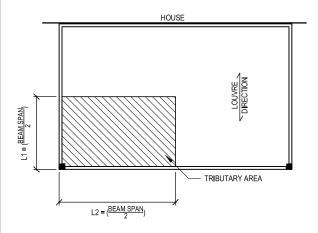
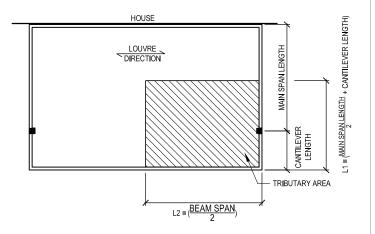
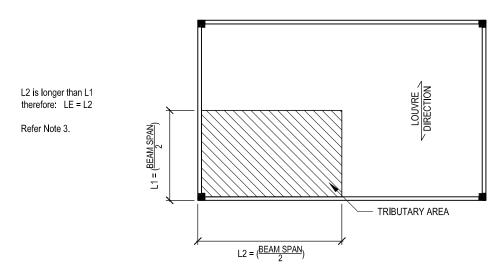


FIGURE 7
PLAN VIEW CANTILEVERED BEAM



#### FIGURE 8 PLAN VIEW



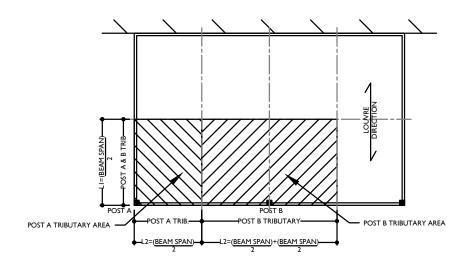
#### **NOTES**

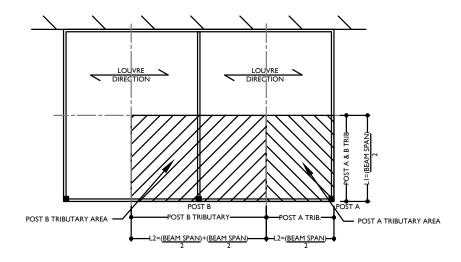
- 1. THE TRIB AREA FOR A POST AND FOOTING IS THE PRODUCT OF HALF THE DISTANCE TO THE ADJACENT SUPPORTS IN EACH DIRECTION ie; L1 X L2 (SEE FIG.6)
- 2. WHERE A POST SUPPORTS A CANTILEVER, CONSIDER FOR THE FULL CANTILEVER LENGTH (SEE FIG.7)
- 3. TRIBUTARY EDGE LENGTH ( $L_{\rm e}$ ) IS USED TO SELECT POST SIZE. FOR A STRUCTURE ATTACHED TO A HOUSE,  $L_{\rm e}$  = L1(PERPENDICULAR TO HOUSE) FOR A FREE STANDING STRUCTURE,  $L_{\rm e}$  = THE LONGER OF L1 & L2 (SEE FIG.8)

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#### TYPICAL DETAIL | CONTINUOUS BEAM SPAN OPTION 2

#### PLAN VIEW POST FOOTING & POST DESIGN









#### LOW WIND ZONE: POST HEIGHT = 2.4m

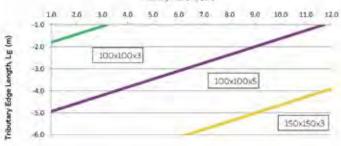
#### LOW WIND ZONE: POST HEIGHT = 2.7m

Tributary Area, AT (m2)



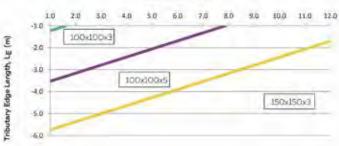
#### LOW WIND ZONE: POST HEIGHT = 3m

Tributary Area , AT (m²)



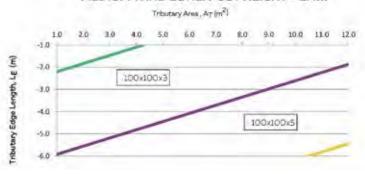
#### LOW WIND ZONE: POST HEIGHT = 3.5m

Tributary Area, At (m2)

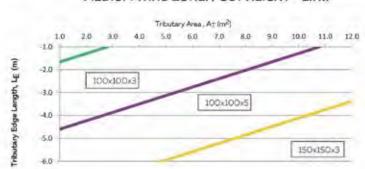




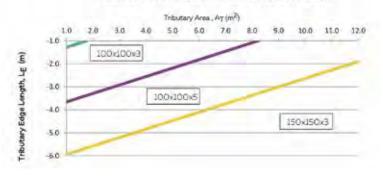
#### MEDIUM WIND ZONE: POST HEIGHT = 2.4m

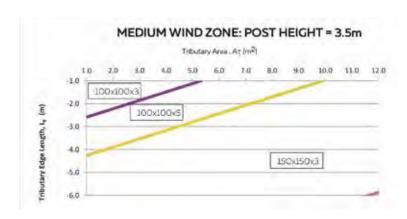


#### MEDIUM WIND ZONE: POST HEIGHT = 2.7m



#### MEDIUM WIND ZONE: POST HEIGHT = 3m



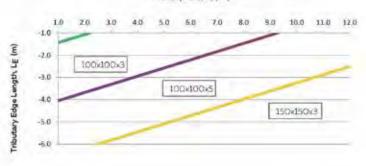


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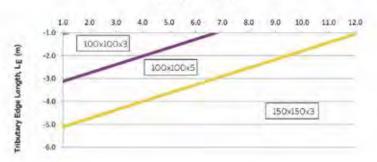
#### HIGH WIND ZONE: POST HEIGHT = 2.4m

Tributary Area , AT (m2)



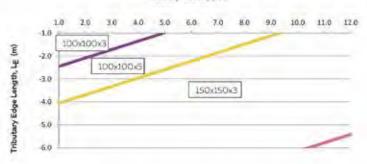
#### HIGH WIND ZONE: POST HEIGHT = 2.7m

Tributary Area, At (m2)

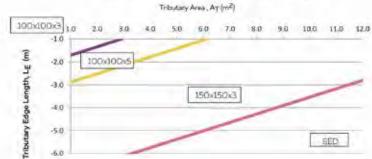


#### HIGH WIND ZONE: POST HEIGHT = 3m

Tributary Area . AT (m²)



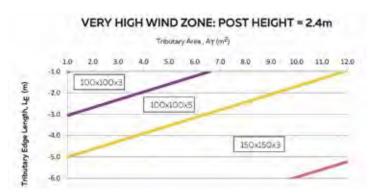
#### HIGH WIND ZONE: POST HEIGHT = 3.5m

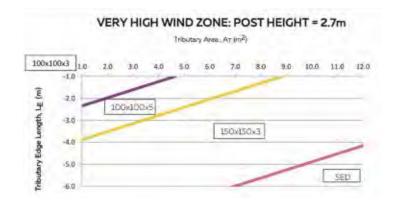


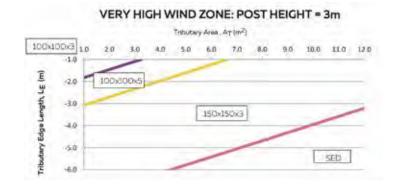


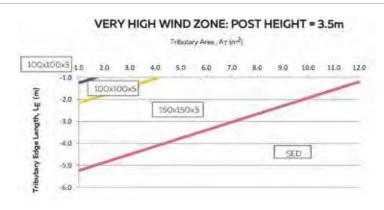
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#### POST CALCULATION: EXTRA HIGH WIND ZONE



#### EXTRA HIGH WIND ZONE: POST HEIGHT = 2.4m



#### EXTRA HIGH WIND ZONE: POST HEIGHT = 2.7m

Tributary Area, AT (mR) 100x100x3 1.0 2.0 3.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 5.0 Inbutary Edge Length, Le (m) 100:100:5 -2.0 -3.0 150x150x3 -4.0 SED -5.0 -6.0

#### EXTRA HIGH WIND ZONE: POST HEIGHT = 3m

Tributary Area, AT (m<sup>2</sup>)

100x100x3 1.0 2.0 3.0 4.0 50 60 7.0 8.0 9.0 10.0 11.0 12.0 100x100x5

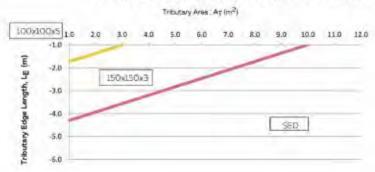
100x100x5

100x100x5

150x150x3

SED

#### EXTRA HIGH WIND ZONE: POST HEIGHT = 3.5m







Post Footing Calculations Ground conditions are considered a minimum of "good ground" as per NZS3604, within minimum soil properties as follow:

GOOD GROUND

Geotechnical ultimate bearing capacity = 300kPa (apply 0.5 safety factor)

Undrained shear strength = 100kPa (apply 0.5 safety factor)

Geotechnical ultimate skin friction capacity = 20kPa (apply 0.5 safety factor)

#### Questionable ground conditions must be reviewed by Engineer

- If Louvre frame is supported by building on less than 2 sides, **uplift AND bracing** must be considered for Footing Calculations (Tables 1a, 1b & 2). If Louvre frame is supported by building on 2 or more sides, **uplift** only needs to be considered (Tables 1a & 1b only).

TABLE 1a MINIMUM CONCRETE VOLUME FOR ROOF TRIBUTARY ROOF

AREA ON POST TO RESIST UPLIFT					
Concrete Volume Required (m³)					
Wind Zone:	L	М	Н	VH	EH
Tributary					
Area (m²)					
1.0	0.03	0.04	0.06	0.08	0.10
2.0	0.06	0.09	0.12	0.16	0.20
3.0	0.09	0.13	0.19	0.25	0.30
4.0	0.12	0.17	0.25	0.33	0.40
5.0	0.15	0.21	0.31	0.41	0.50
6.0	0.18	0.26	0.37	0.49	0.60
7.0	0.22	0.30	0.44	0.57	0.70
8.0	0.25	0.34	0.50	0.65	0.80
9.0	0.28	0.38	0.56	0.74	0.90

#### DESIGN PROCEDURE

- (1) Determine the tributary area on post (determined previously for post design)
- (2) From Table 1a, determine the minimum concrete volume to resist uplift based on tributary area.
- (3) From Table 1b, determine the Footing Dimensions required for minimum volume calculated in (2). If bracing is required to be considered, please follow steps (4) and (5) below.
- (4) From Table 2, determine Footing Dimensions based on the post size selected. For ease of comparing, select same Footing Type as selected in (3)
- (5) Please use maximum of dimensions from (3) and (4)

### TABLE 1b FOOTING DIMENSIONS REQUIRED FOR PARTICULAR VOLUMES FOR UPLIFT RESISTANCE

ROUND PILES

SQUARE PADS

Volume	300 diameter	400 diameter	450 diameter	600 diameter	Square pad 300mm deep	Square pad 600mm deep
(m <sup>2</sup> )		minimum o	depth (mm)		minimum din	nension (mm)
0.1	700	650	600	550	600	400
0.2	950	800	750	650	800	600
0.3	1150	950	850	700	1000	700
0.4	1350	1100	1000	800	1150	800
0.6	1800	1400	1250	1000	1400	1000
0.8	2250	1700	1550	1200	1650	1150
1.0	2650	2000	1800	1400	1850	1300

NB: Round piles depths are calculated including skin friction so final concrete volume will differ to that in first column.

#### TABLE 2 MINIMUM FOOTING SIZES REQUIRED FOR BRACING OF EACH POST SIZE

ROUND PILES SQUARE PADS

	KOOND I ILLO				II (LI I I I I I	
Post Size	300 diameter	400 diameter	450 diameter	600 diameter	Square pad 300mm deep	Square pad 600mm deep
		minimum (	depth (mm)		minimum dimension (mm)	
100x100x3	1100	1000	1000	900	1000	800
100x100x5	-	1100	1100	1000	1200	900
150x150x3	-	1300	1200	1200	1400	1100
100x100x4 SHS	-	1300	1200	1200	1400	1100

#### Concrete to be minimum 20MPa

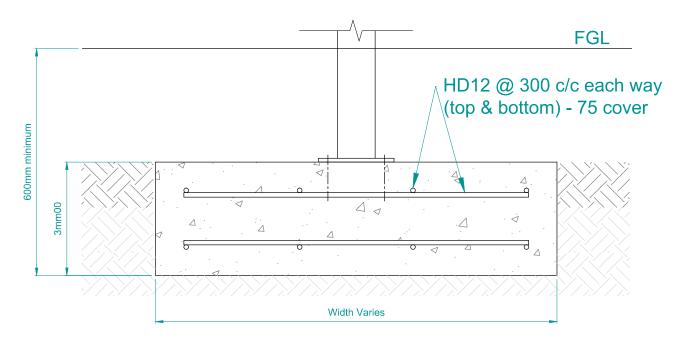
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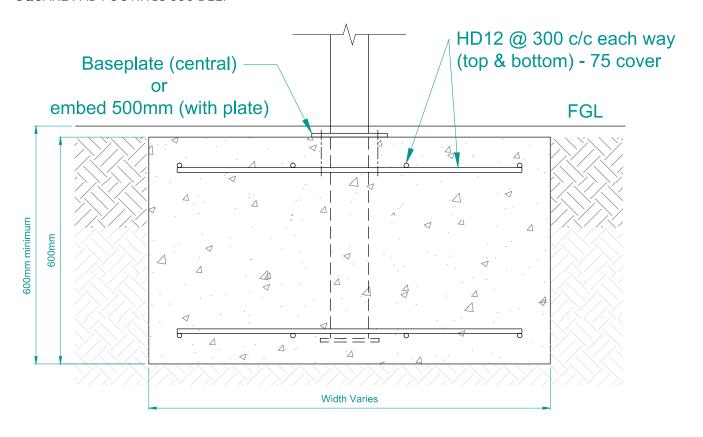
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#### **TECHNICAL DETAILS: SQUARE PAD FOOTINGS**

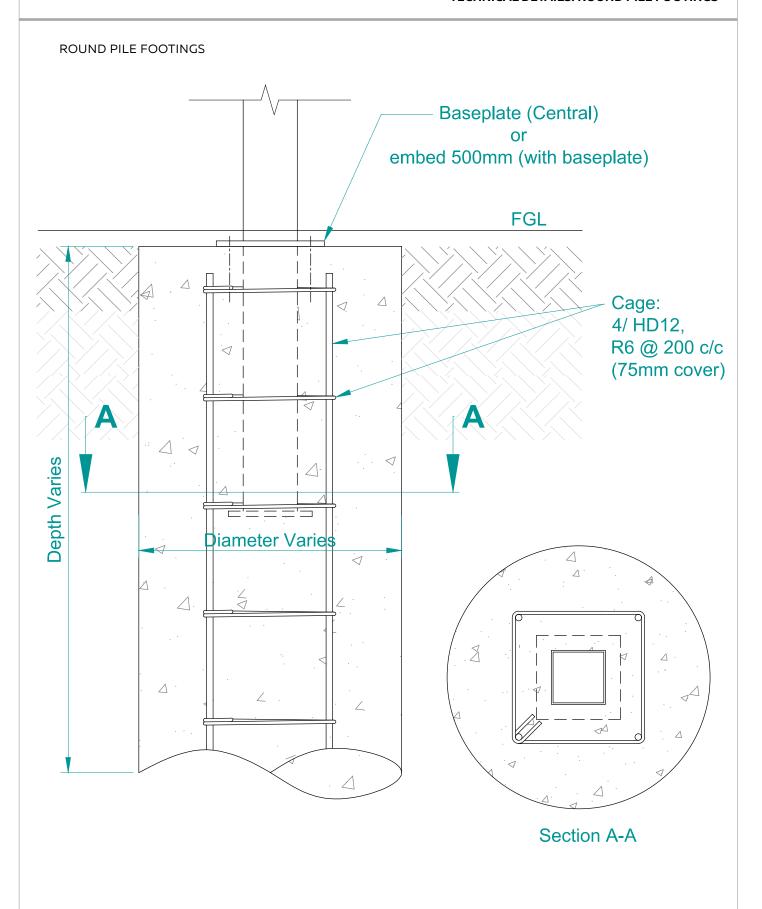
#### SQUARE PAD FOOTINGS 300 DEEP



#### SQUARE PAD FOOTINGS 600 DEEP







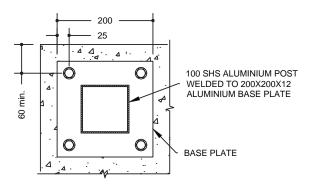
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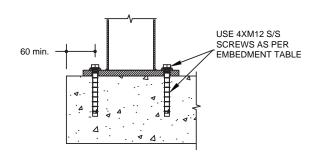
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TYPICAL DETAIL BASE PLATE SIZES FOR VARIOUS POSTS, SUBSTRATES & FIXINGS

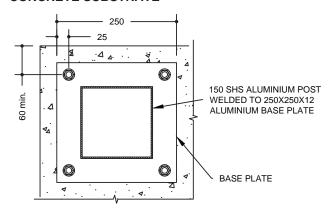
## 100X100 ALUMINIUM POST BASE PLATE CONCRETE SUBSTRATE

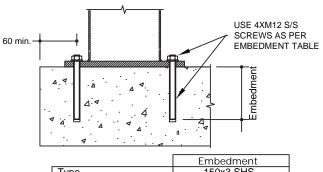




	Embed	lment
Туре	100x3 SHS	100x5 SHS
Chemset Threaded Rod	80	100
Masonry Screw	85	100

## 150X150 ALUMINIUM POST BASE PLATE CONCRETE SUBSTRATE





 Embedment

 Type
 150x3 SHS

 Chemset Threaded Rod
 110\*

 Masonry Screw
 120

Embedment

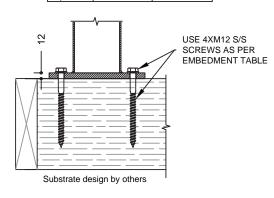
150x3 SHS

265

\*Ramset C6 Plus

## 100X100 ALUMINIUM POST BASE PLATE TIMBER SUBSTRATE

	Embedment		
Type	100x3 SHS	100x5 SHS	
Coach	120	190	
Spax	120	190	



## 150X150 ALUMINIUM POST BASE PLATE TIMBER SUBSTRATE

Type

Coach

	Spax 26	60
\ <u>-</u>		USE 4XM12 S/S SCREWS AS PER EMBEDMENT TABLE
	Substrate design by others	

NOTE: ALL POST TO BASE PLATE WELDS MUST BE FULL PENETRATION BUTT WELDS ALL AROUND

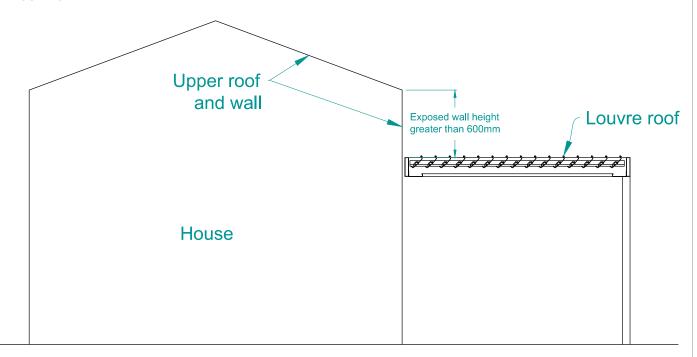




#### SNOW LOADINGS. AS REQUIRED BY NZS3604:2011 (SECTION 15)

Where a louvre roof forms part of a lower roof meeting an upper wall and the exposed height of the upper wall is greater than 0.6mm, the roof is defined as an abutting roof (similar to NZS3604:2011 15.3). In this situation, the louvre spans and beam spans determined from the Louvretec Tables shall be multiplied by 0.8.

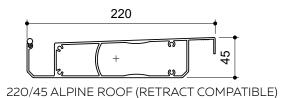
#### FIGURE 9



#### STANDARDS NZ 1.5 AND 2.5 kPa SNOW LOADING ZONES NZS 3604:2011

For information about snow zones in New Zealand please see Figure 15.1 from NZS 3604:2011 Timber Framed Buildings. Wind speeds and snow loads must always be considered together. The lesser span taking precedence.

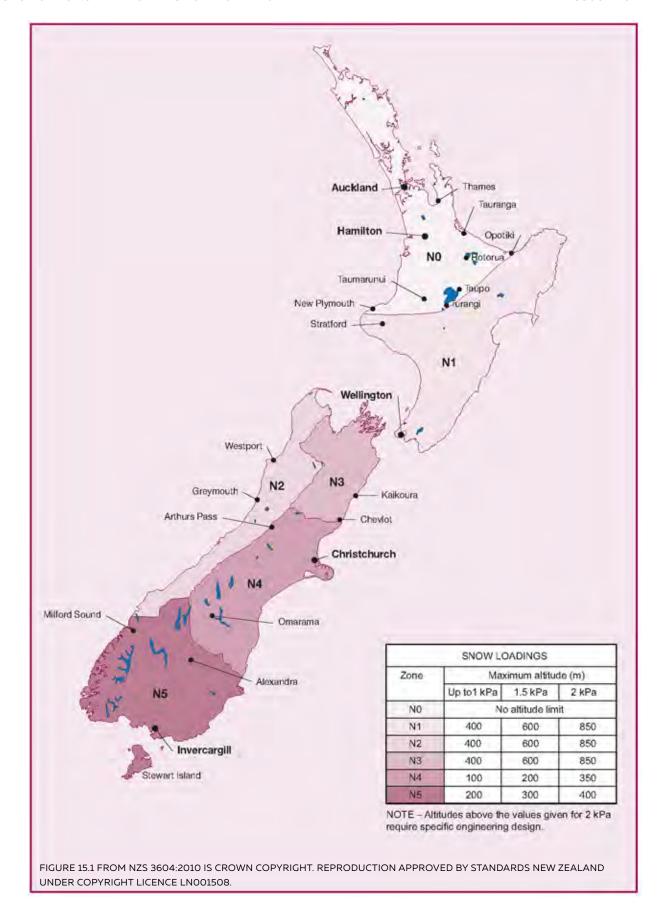
#### OPENING OR RETRACT ROOF BLADE FOR ALPINE CONDITIONS



		LOUVRE ROOF SPANS (mm)
Δ	1kPa	5000
٥-	1.5kPa	5000
SNOW LOAD	2kPa	5000
SNS	3kPa	4200
	3.3kPa	4000

#### SECTION 15 1.5 AND 2.0 KPA SNOW LOADING

NZS3604.2011







# 14. ELECTRICAL WIRING DIAGRAMS

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#### WIRING DIAGRAMS WELCOME





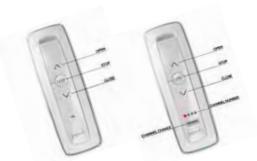




SOMFY TUBULAR MOTOR



SOMFY TUBULAR MOTOR INSITU



SOMFY RTS CONTROLLERS SINGLE & MULTIPLE





### WIRING DIAGRAMS

#### Overview

The Wiring Diagrams shown in this Design Manual cover a wide range of typical Louvretec motorised and electrical installations.

They provide the specific wiring details as required by architects, designers, builders and specifiers when planning Louvretec installations, and of course for electricians when providing connections.

Please contact your nearest Louvretec Dealer to discuss any customised options not currently shown.

## Important Safety Instructions for Installation

An incorrect installation could lead to serious injury. Follow all of these instructions as well as those supplied with the motor & controls.

- Install an Omnipolar Isolation Switch upstream with a minimum contact opening space of 3mm
- All cabling must be protected from UV and physical stress (by others)
- Motors must be installed and programmed by competent installers
- For products necessary for the safe functioning of the motorised installation, refer to your nearest Louvretec Dealer
- · Use only approved accessories
- · Use only approved transmitters with the RTS Motors
- Before carrying out any form of maintenance, isolate the power to the motor and/or controls
- Examine the installation at regular intervals. Do not use the installation until any faults have been rectified
- Should you have any questions regarding the installation of Motors & Controls, contact your nearest Louvretec Dealer

SOMFY TELIS 16 CHANNEL RETRACT ROOF REMOTE

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

#### Remote options

Remote Control technology is constantly changing and upgrading. Please discuss with your local Louvretec Dealer and view our website for current updates.

Key: Remote	Compatibility
opening roofs	outdoor blinds
louvretec retract  ADI Retract Technology	Lighting 👩
sun louvres	Heating

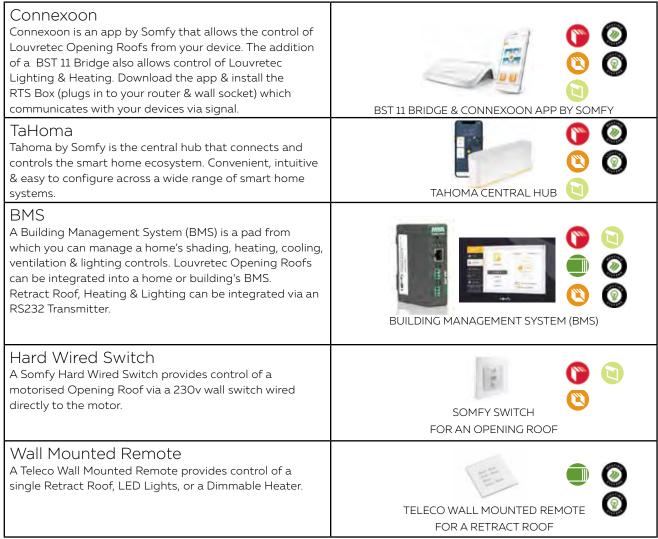
current apaates.	
Situo 1 & Smoove 1 Wall Switch The Situo 1 Remote by Somfy is a one-channel handheld remote using Radio Technology Somfy (RTS). Smoove is a wireless wall mounted switch providing the same functionality as a remote. Perfect for controlling a single Opening Roof.	
Situo 5 & Smoove 4 Wall Switch 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.	
Telis 16 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.	
Noon Duo The Noon Duo is a 9-channel handheld remote. The Noon Duo allows control for Louvretec Retract Roofs, Lighting and Heating.	
Daisy App 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.	OALES OALES
Solar Powered 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.	SOLAR POWER OPTION FOR SPIRAL PIVOT OPENING ROOFS

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

#### Remote options

Remote Control technology is constantly changing and upgrading. Please discuss with your local Louvretec Dealer and view our website for current updates.





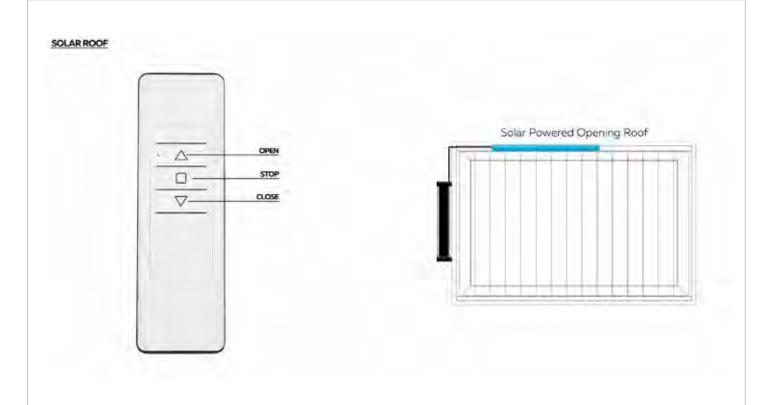
## **RAIN SENSOR OPTION**

#### 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.



#### WIRING DETAIL: SINGLE SOLAR POWERED MOTOR & REMOTE

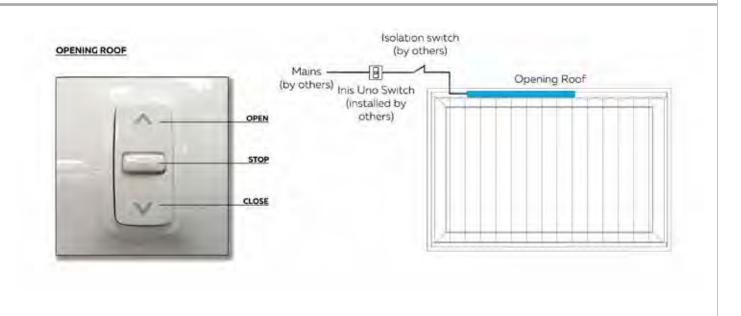


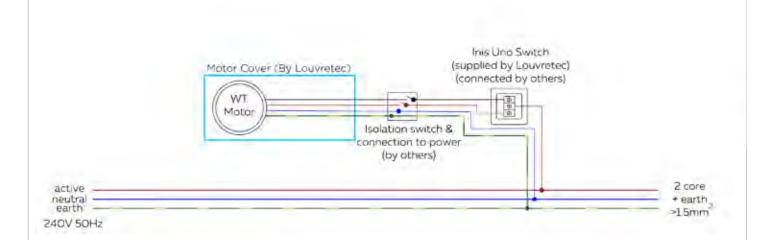


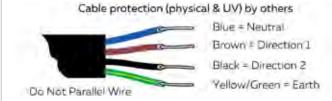
BATTERY INCLUDED IN SOLAR PANEL



#### WIRING DETAIL: SINGLE SOMFY WT MOTOR & SOMFY SWITCH







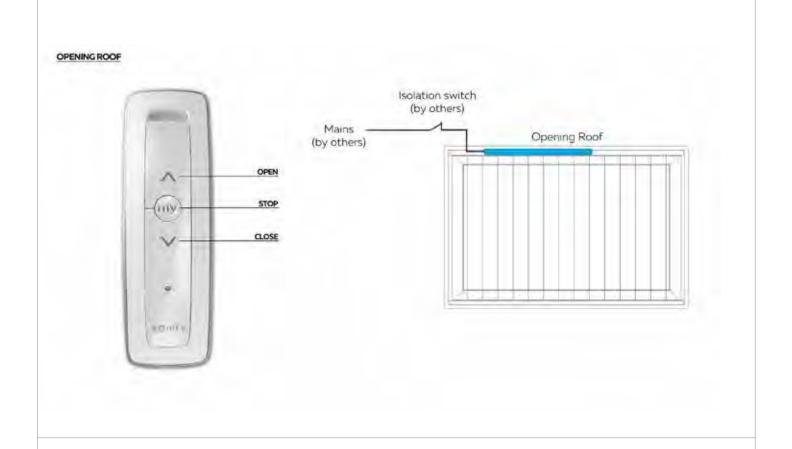
Cable Required	4 core double insulated heavy duty flex 4 x 1.5mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor

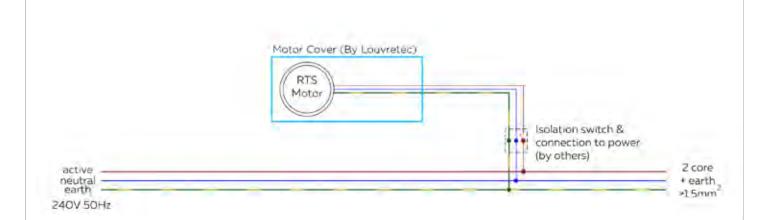
SCALE: DATE MODIFIED: 01/10/2024 FILE: **ELECTRICAL WIRING DIAGRAMS 14.07** 

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#### WIRING DETAIL: SINGLE SOMFY RTS MOTOR & SOMFY REMOTE



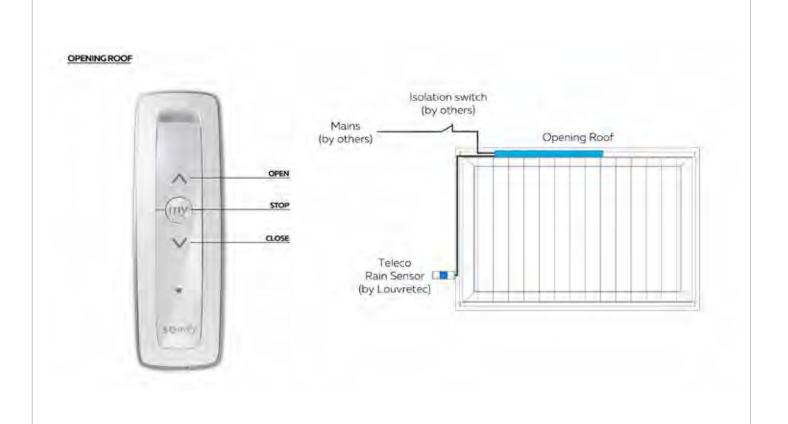


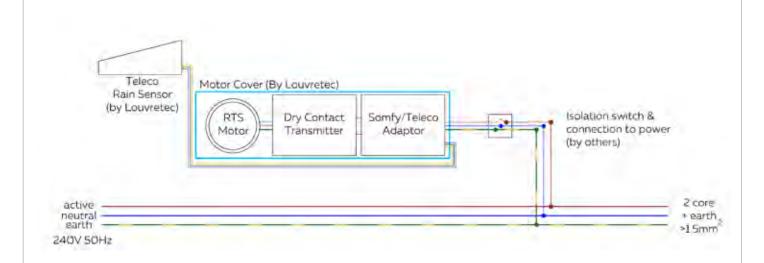


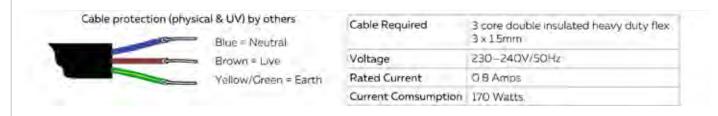
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps
Current Comsumption	170 Watts



## WIRING DETAIL: SINGLE SOMFY RTS MOTOR WITH LOUVRETEC/TELECO RAIN SENSOR ADAPTOR & SOMFY REMOTE





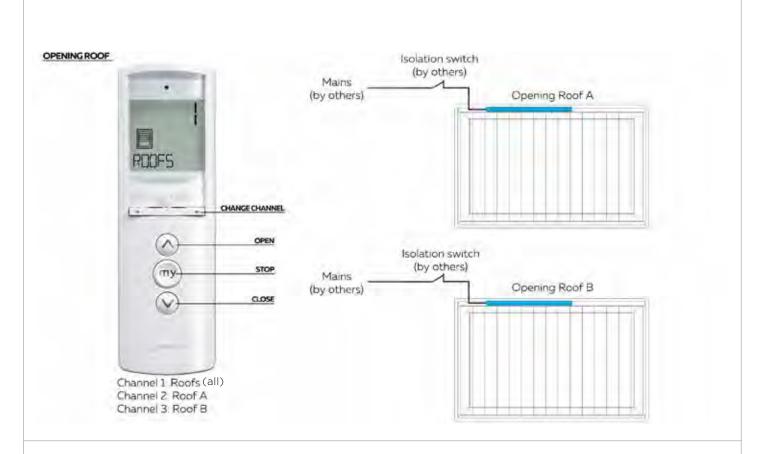


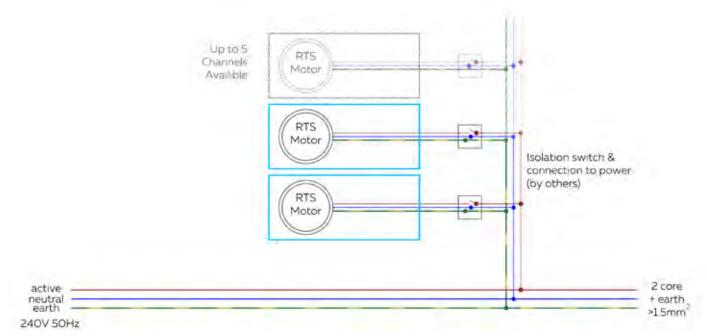
SCALE: DATE MODIFIED: 01/10/2024 FILE: **ELECTRICAL WIRING DIAGRAMS 14.09** 

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#### WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS & SOMFY REMOTE (OPENING ROOFS)



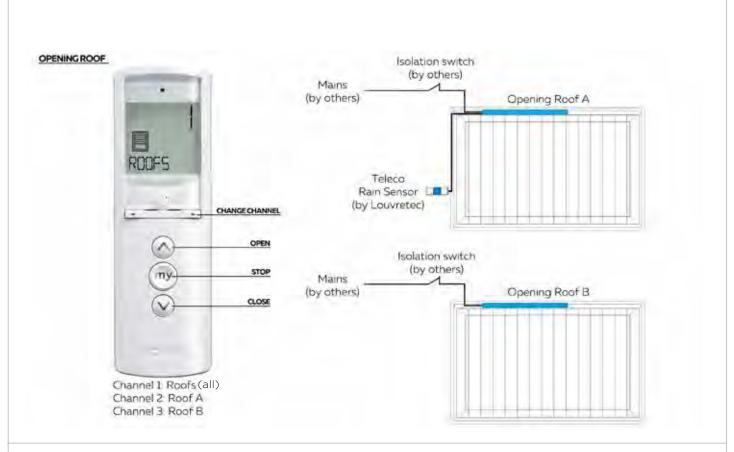




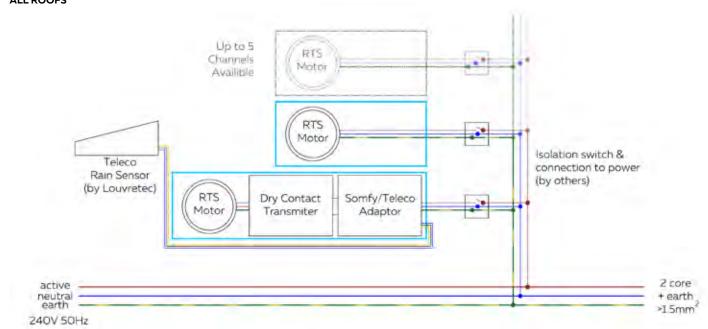
Cable Required	3 core double insulated heavy duty flex 3 x 1.5mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor



## WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS WITH LOUVRETEC/TELECO RAIN SENSOR ADAPTOR & SOMFY REMOTE (OPENING ROOFS)



### RAIN SENSOR CONTROLS ALL ROOFS



#### Cable protection (physical & UV) by others



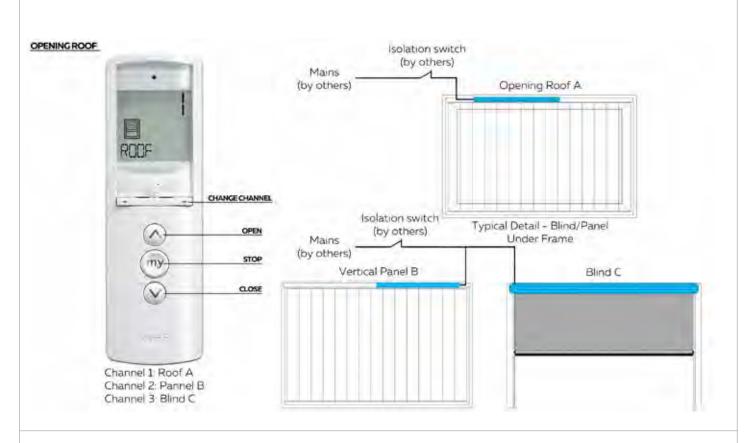
Cable Required	3 core double insulated heavy duty flex $3 \times 15 \text{mm}$
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor

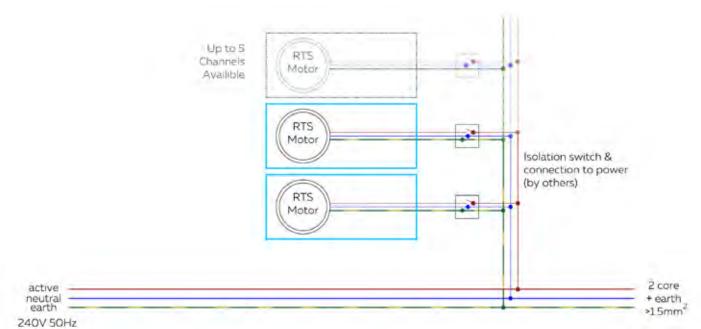
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DATE MODIFIED: 01/10/2024 FILE: **ELECTRICAL WIRING DIAGRAMS 14.11** 

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## WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS & SOMFY REMOTE (OPENING ROOF, PANEL & OUTDOOR BLIND)



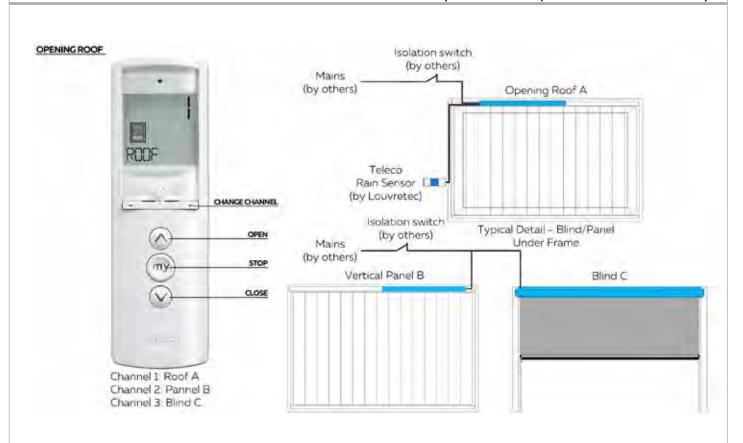




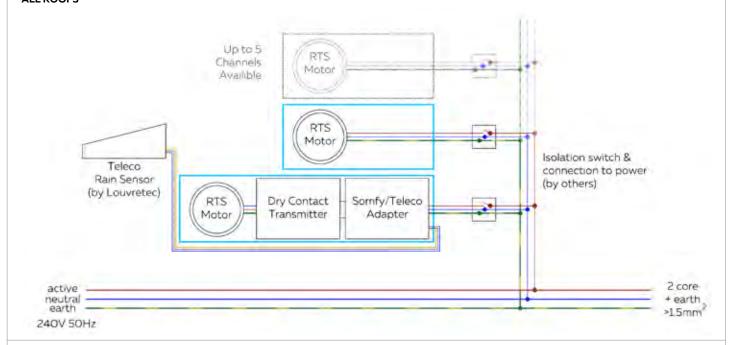
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor



#### WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS WITH LOUVRETEC/TELECO RAIN SENSOR ADAPTOR & SOMFY REMOTE (OPENING ROOF, PANEL & OUTDOOR BLIND)



#### **RAIN SENSOR CONTROLS** ALL ROOFS



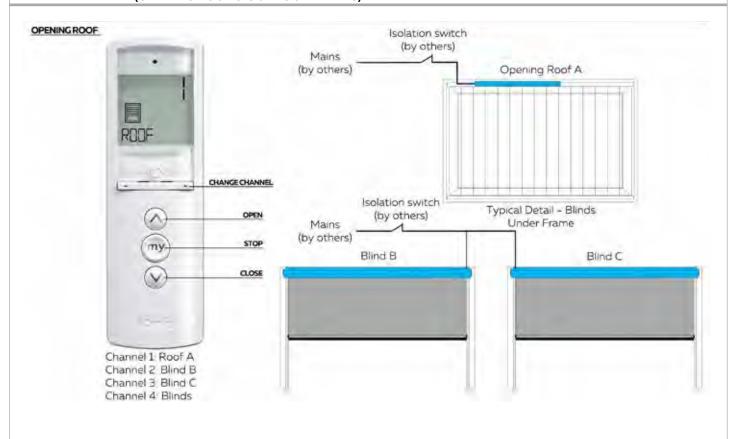


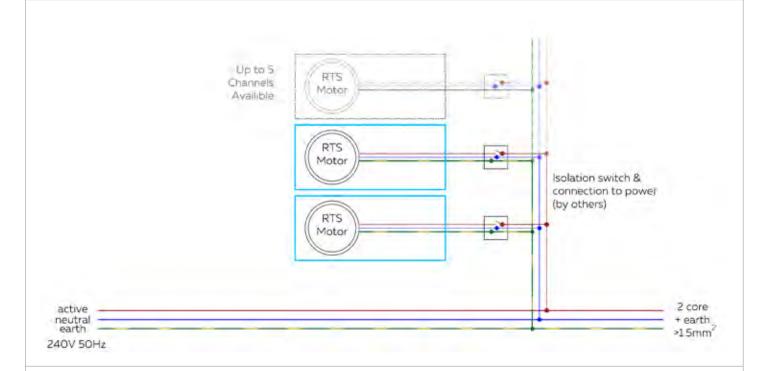
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	O.B Amps per motor
Current Comsumption	170 Watts per motor

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#### WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS & SOMFY REMOTE (OPENING ROOF & OUTDOOR BLINDS)



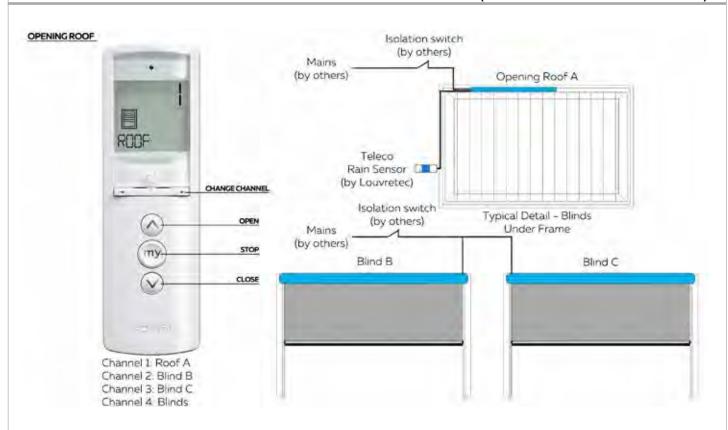


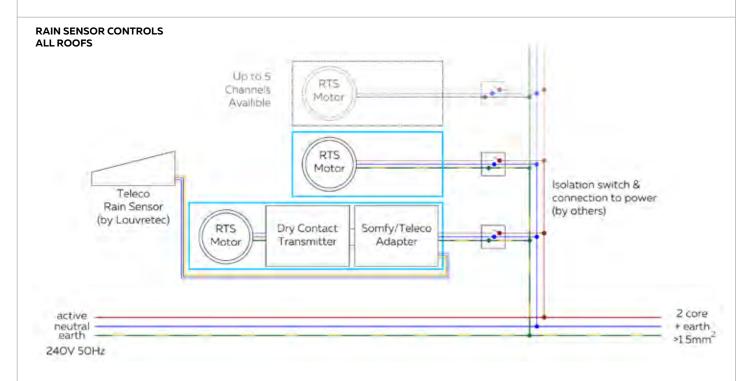


Cable Required	3 core double insulated heavy duty flex 3×15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor



## WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS WITH LOUVRETEC/TELECO RAIN SENSOR ADAPTOR & SOMFY REMOTE (OPENING ROOF & OUTDOOR BLINDS)





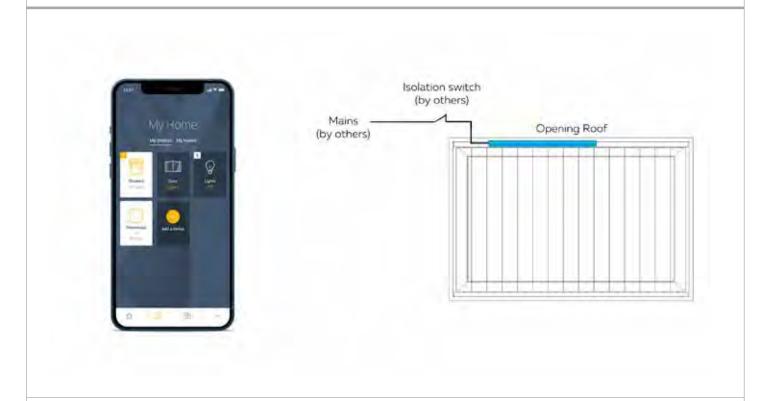


Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor

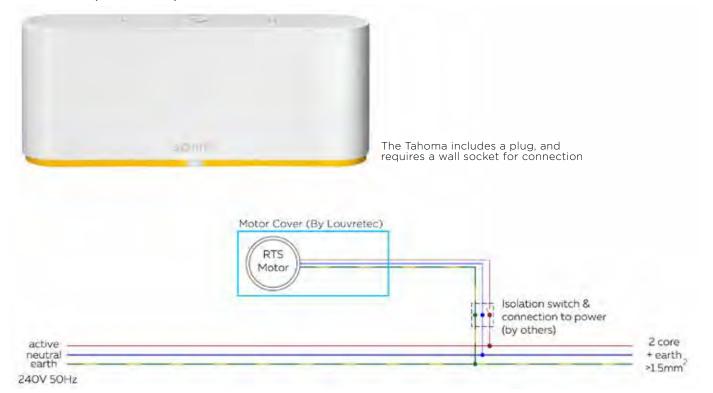
SCALE: www.louvretec.co.nz DATE MODIFIED: 01/10/2024 FILE: **ELECTRICAL WIRING DIAGRAMS 14.15** 

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#### WIRING DETAIL: SINGLE SOMY RTS MOTOR & TAHOMA BY SOMFY



#### TAHOMA SWITCH (BY LOUVRETEC)

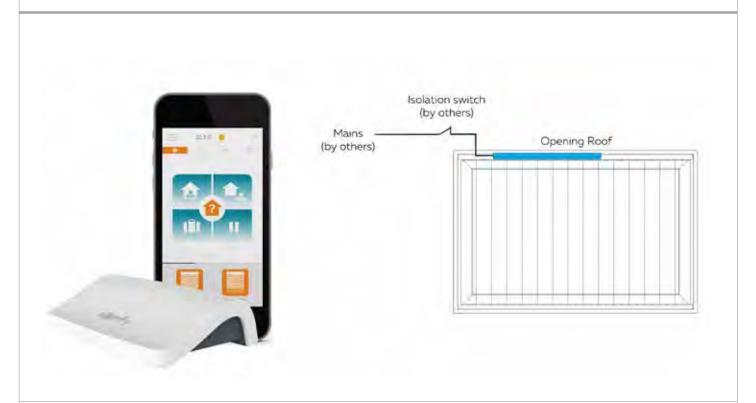


	Cable protection (physic	cal & UV) by others
-		Blue = Neutral
	-	Brown = Live
		Yellow/Green = Earth

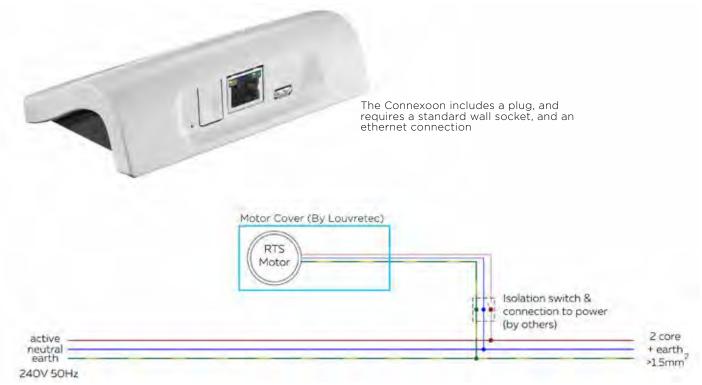
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps
Current Comsumption	170 Watts



#### WIRING DETAIL: SINGLE SOMFY RTS MOTOR & CONNEXOON WINDOW RTS







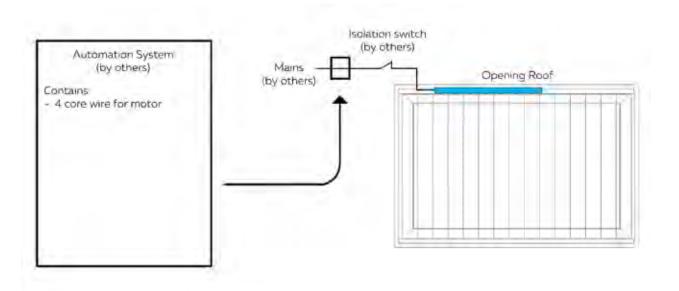


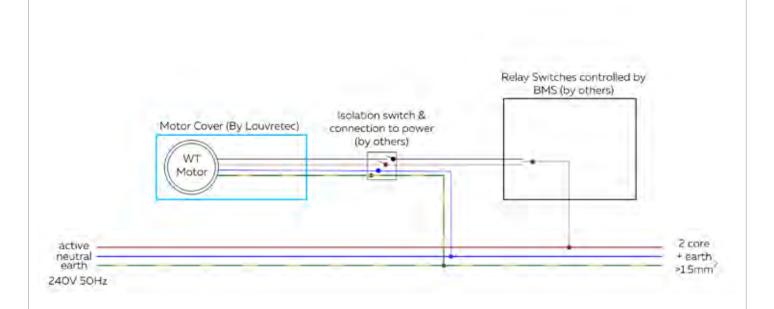
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps
Current Comsumption	170 Watts

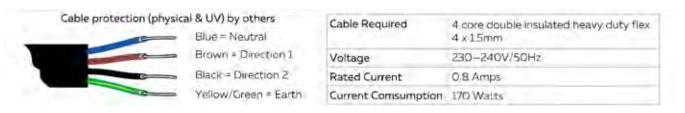
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## WIRING DETAIL: SINGLE SOMFY WT MOTOR CONTROLLED BY BUILDING MANAGEMENT SYSTEM (BMS)

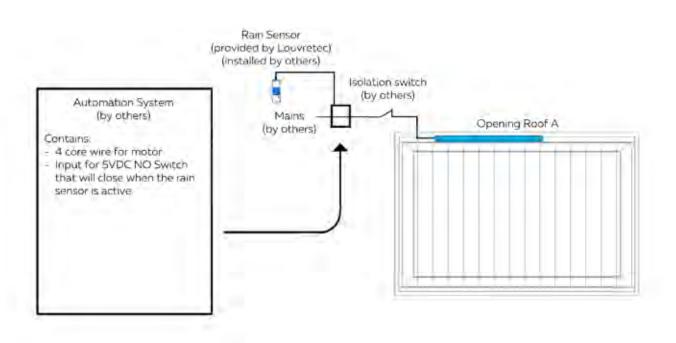


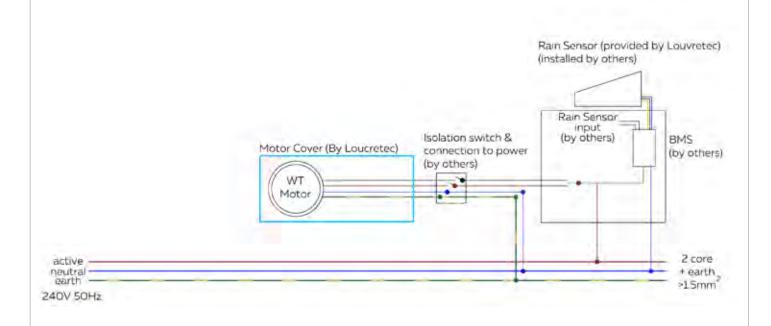


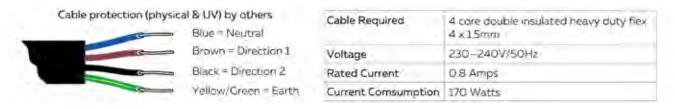




## WIRING DETAIL: SINGLE SOMFY WT MOTOR WITH RAIN SENSOR & CONTROLLED BY BUILDING MANAGEMENT SYSTEM (BMS)

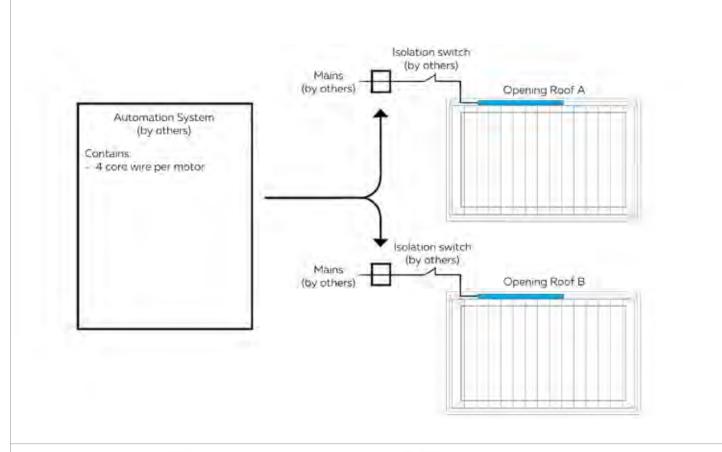


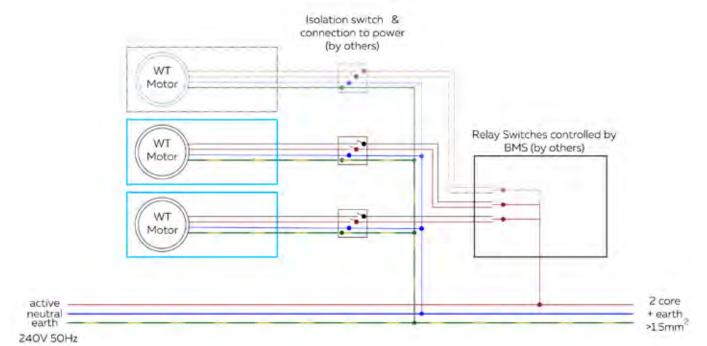




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## WIRING DETAIL: MULTIPLE SOMFY WT MOTORS CONTROLLED BY BUILDING MANAGEMENT SYSTEM (BMS)





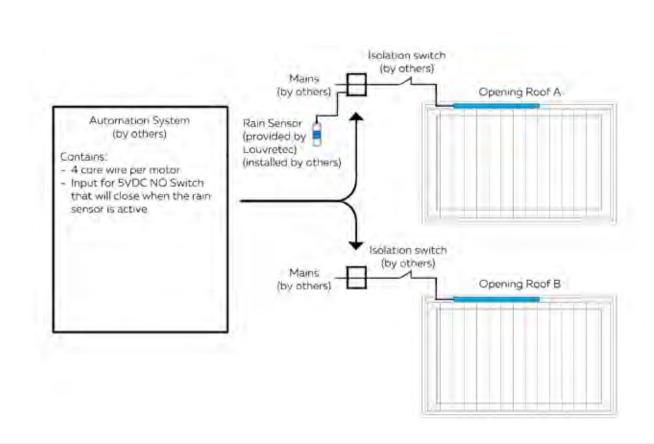


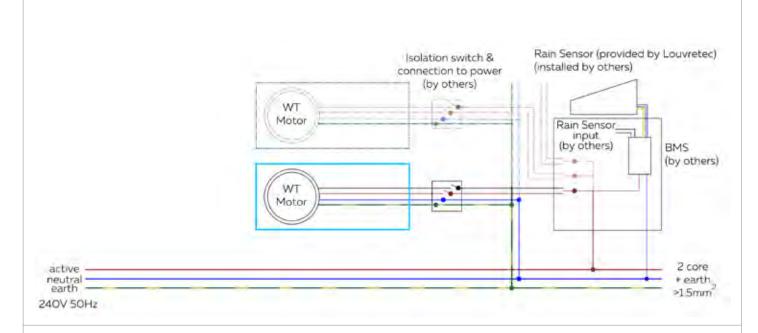
Cable Required	4 core double insulated heavy duty flex 4 x 1.5mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor



Do Not Parallel Wire

## WIRING DETAIL: MULTIPLE SOMFY WT MOTORS WITH RAIN SENSOR & CONTROLLED BY BUILDING MANAGEMENT SYSTEM (BMS)

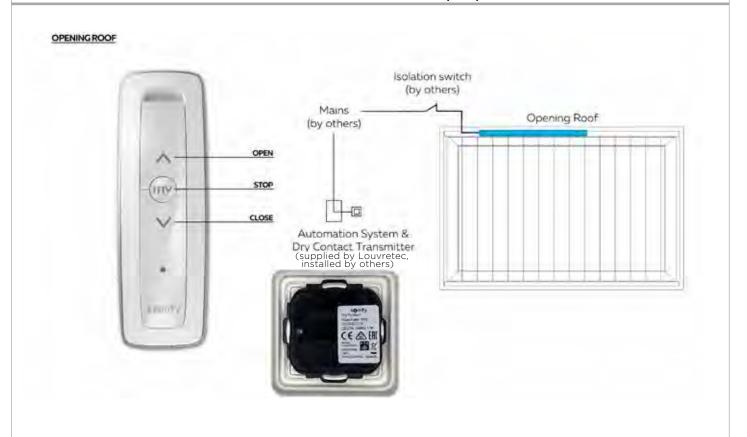


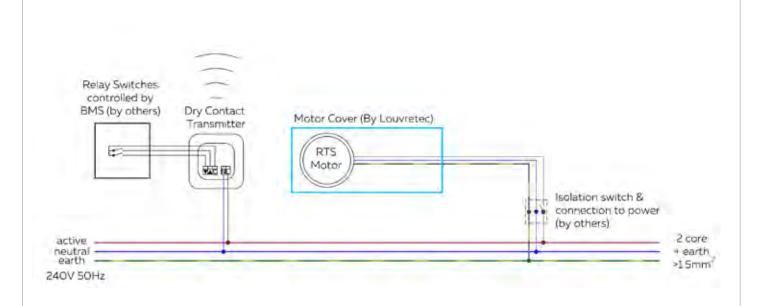


# Cable protection (physical & UV) by others Blue = Neutral Brown = Direction 1 Black = Direction 2 Cable Required 4 core double insulated heavy duty flex 4 x 15mm Voltage 230-240V/50Hz Rated Current OB Amps per motor Yellow/Green = Earth Current Comsumption 170 Watts per motor

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#### WIRING DETAIL: SINGLE SOMFY RTS MOTOR WITH DRY CONTACT TRANSMITTER CONTROLLED BY BUILDING MANAGEMENT SYSTEM (BMS) & OPTIONAL SOMFY REMOTE



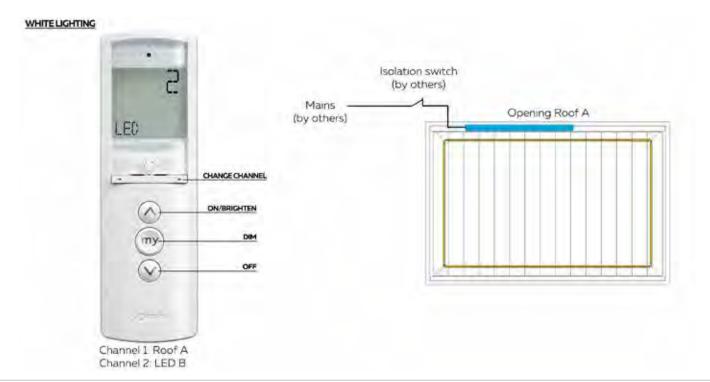




Cable Required	3 core double insulated heavy duty flex $3 \times 15 \text{mm}$
Voltage	230-240V/50Hz
Rated Current	0.8 Amps
Current Comsumption	170 Watts



## WIRING DETAIL: SINGLE SOMFY RTS MOTOR WITH LOUVRETEC GUTTER STRIP LIGHTING BST11 BRIDGE & SOMFY REMOTE



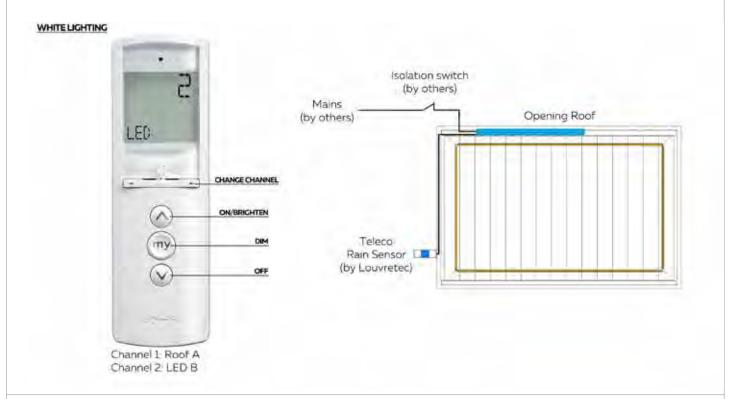


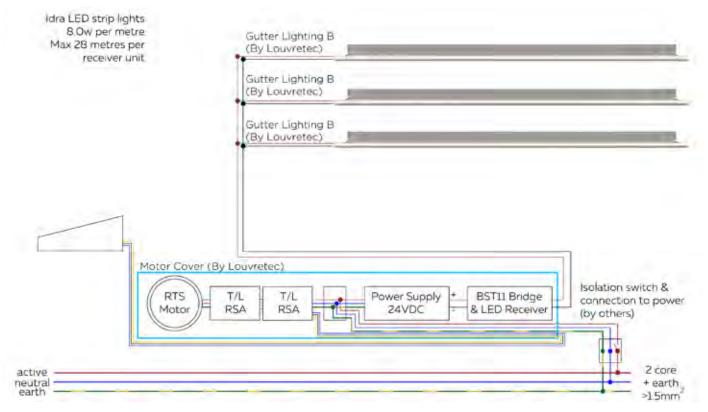


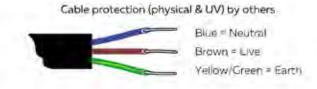
3 core double insulated heavy duty flex 3 x 1.5mm
230-240V/50Hz
3.2 Amps
770 Watts

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#### WIRING DETAIL: SINGLE SOMFY RTS MOTOR WITH LOUVRETEC GUTTER STRIP LIGHTING, LOUVRETEC/TELECO RAIN SENSOR ADATPOR, BST11 BRIDGE & SOMFY REMOTE



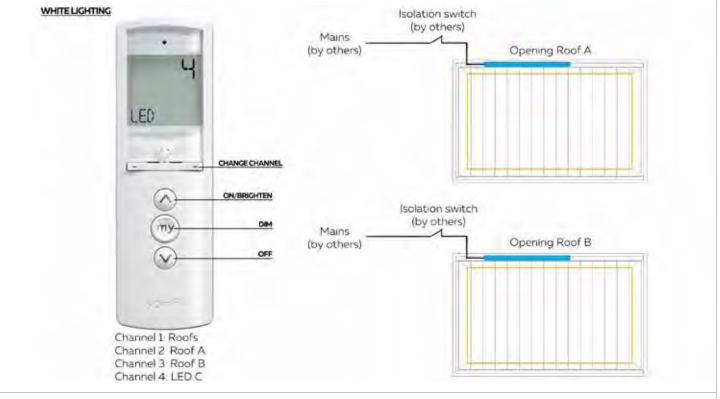


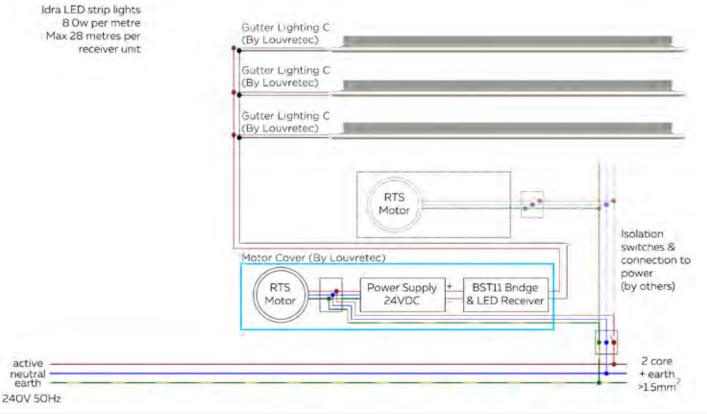


Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	3.2 Amps
Current Comsumption	770 Watts



## WIRING DETAIL: MULTIPLE SOMFY RTS MOTOR WITH LOUVRETEC GUTTER STRIP LIGHTING BST11 BRIDGE & SOMFY REMOTE



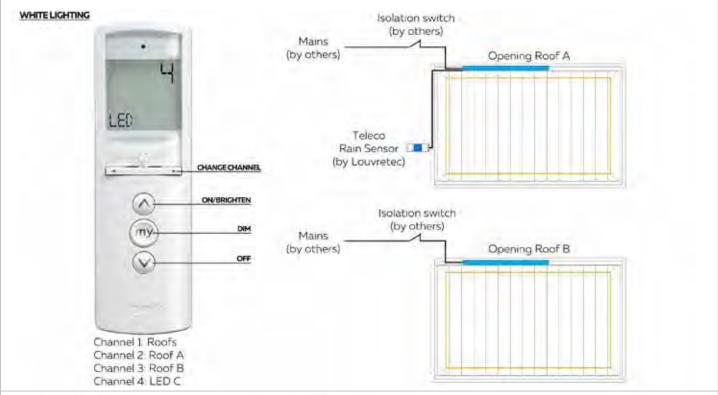


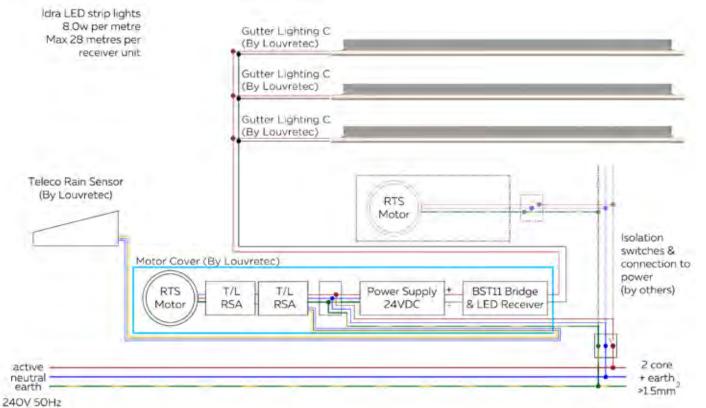


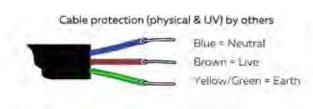
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	2.5 Amps + 0.8 Amps per motor
Current Comsumption	570 Watts + 170 Watts per motor

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#### WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS WITH LOUVRETEC GUTTER STRIP LIGHTING, LOUVRETEC/TELECO RAIN SENSOR ADATPOR, BST11 BRIDGE & SOMFY REMOTE



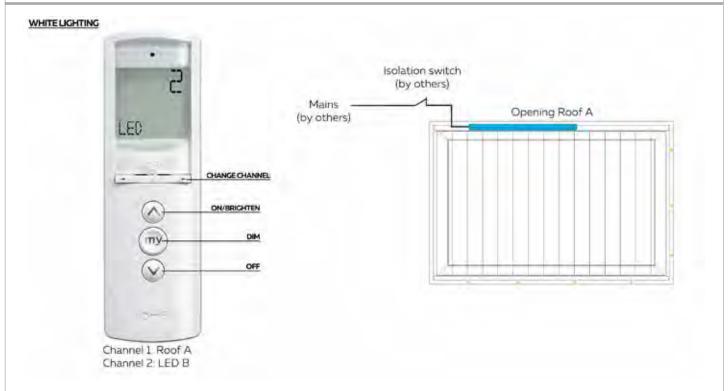


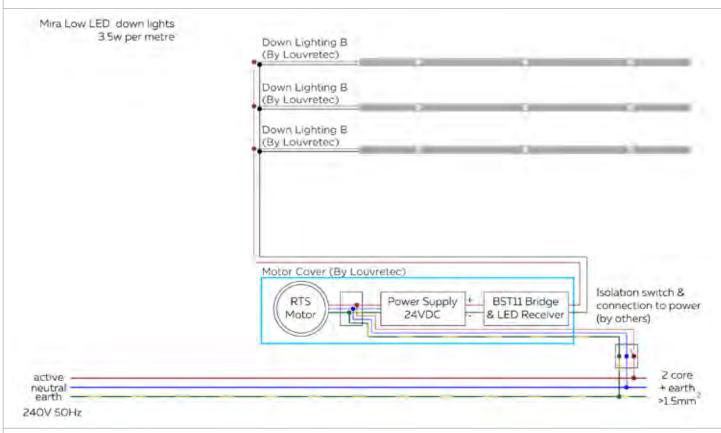


Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	25 Amps + 08 Amps per motor
Current Comsumption	570 Watts + 170 Watts per motor



#### WIRING DETAIL: SINGLE SOMFY RTS MOTOR WITH LOUVRETEC DOWN LIGHTING **BST11 BRIDGE & SOMFY REMOTE**





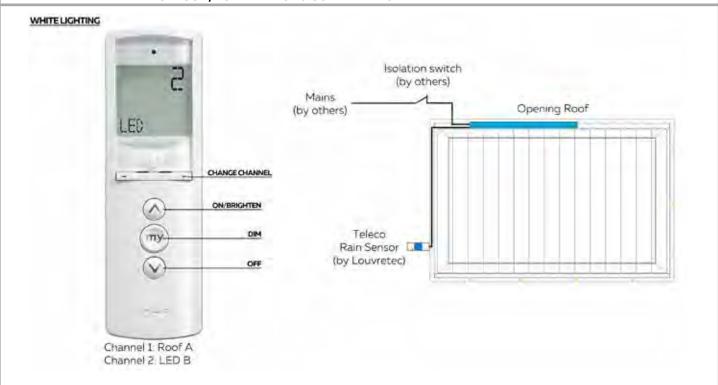


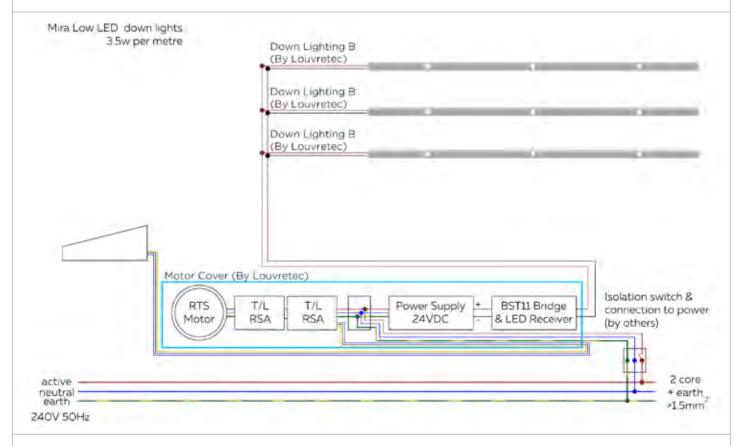
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	32 Amps
Current Comsumption	770 Watts

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#### WIRING DETAIL: SINGLE SOMFY RTS MOTOR WITH LOUVRETEC DOWN LIGHTING, **RAIN SENSOR, BST11 BRIDGE & SOMFY REMOTE**



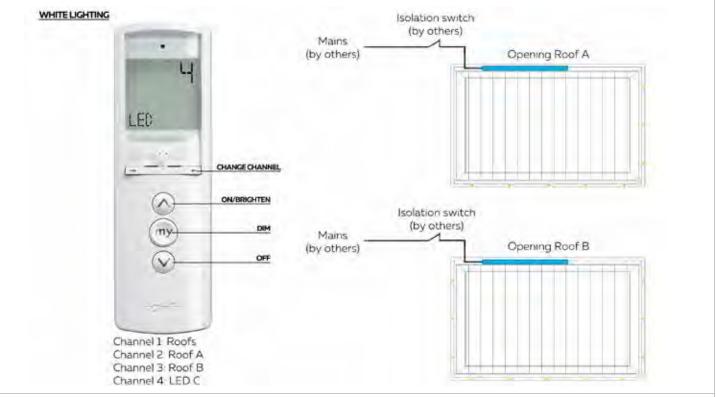


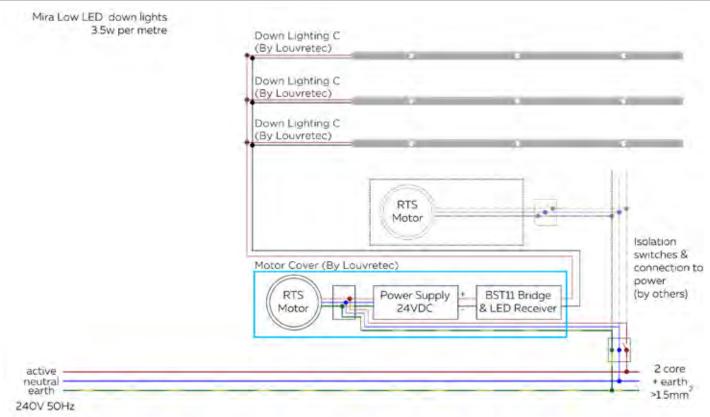


Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	32 Amps
Current Comsumption	770 Watts



## WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS WITH LOUVRETEC DOWN LIGHTING BST11 BRIDGE & SOMFY REMOTE







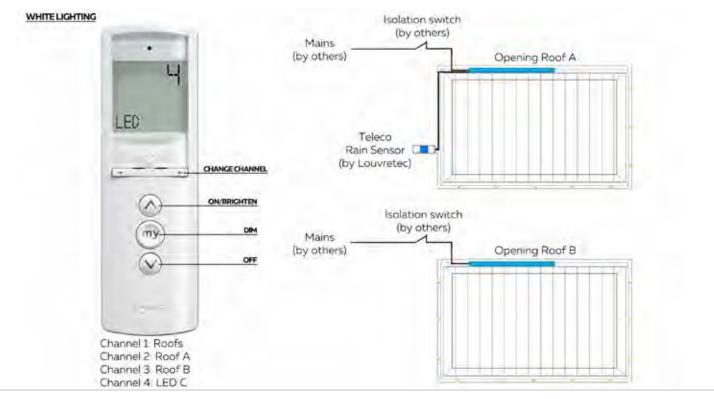
Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	2.5 Amps + 0.8 Amps per motor
Current Comsumption	570 Watts + 170 Watts per motor

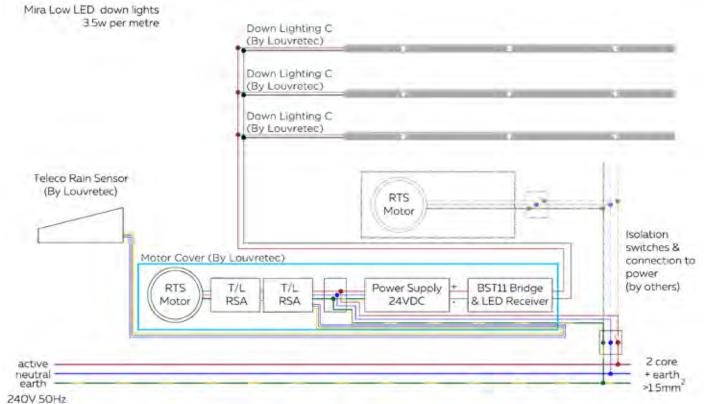
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DATE MODIFIED: 01/10/2024 FILE: **ELECTRICAL WIRING DIAGRAMS 14.29** 

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#### WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS WITH LOUVRETEC DOWN LIGHTING, **RAIN SENSOR, BST11 BRIDGE & SOMFY REMOTE**



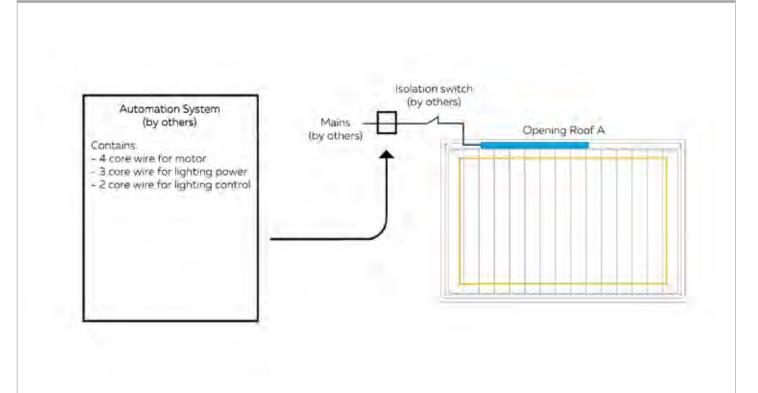


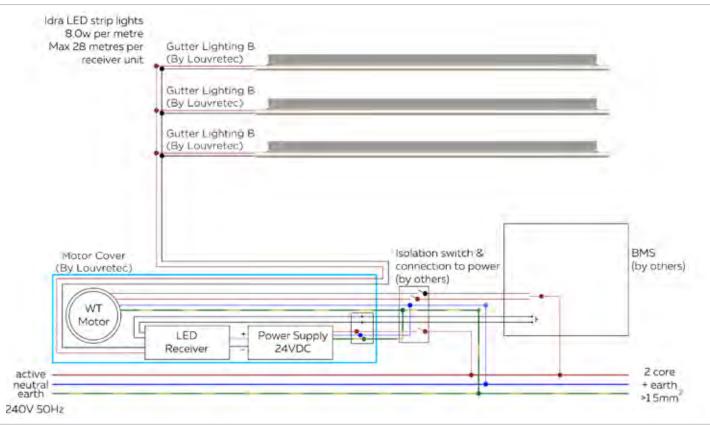


Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	2.5 Amps + 0.8 Amps per motor
Current Comsumption	570 Watts + 170 Watts per motor



## WIRING DETAIL: SINGLE SOMFY WT MOTOR WITH LOUVRETEC GUTTER STRIP LIGHTING & CONTROLLED BY BMS







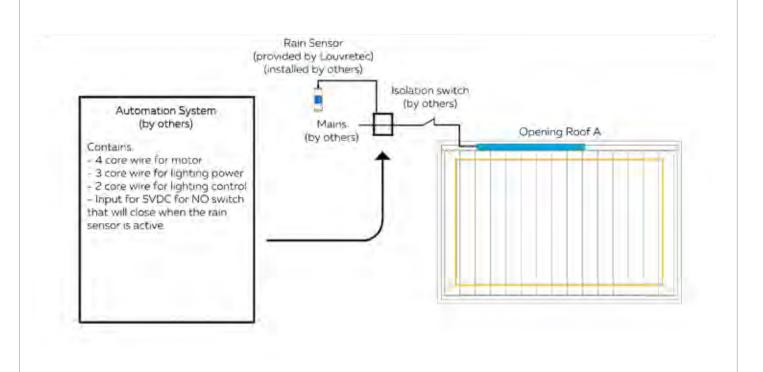
Cable Required	4 core double insulated heavy duty flex 4 x 15mm
Voltage	230-240V/50Hz
Rated Current	32 Amps
Current Comsumption	770 Watts

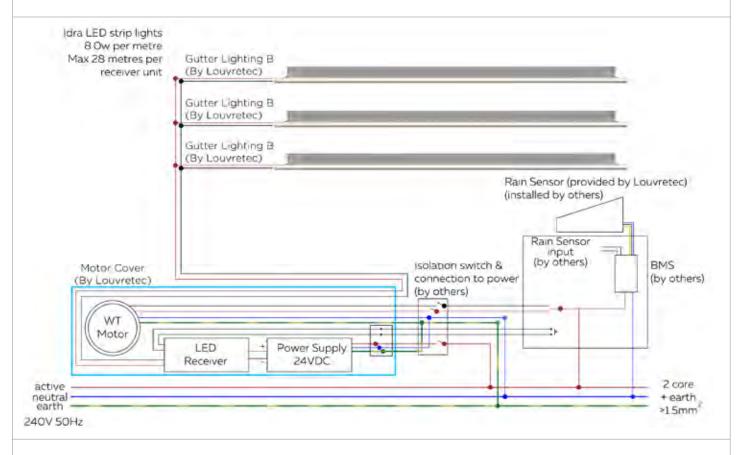
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#### WIRING DETAIL: SINGLE SOMFY WT MOTOR WITH LOUVRETEC GUTTER STRIP LIGHTING, **RAIN SENSOR & CONTROLLED BY BMS**



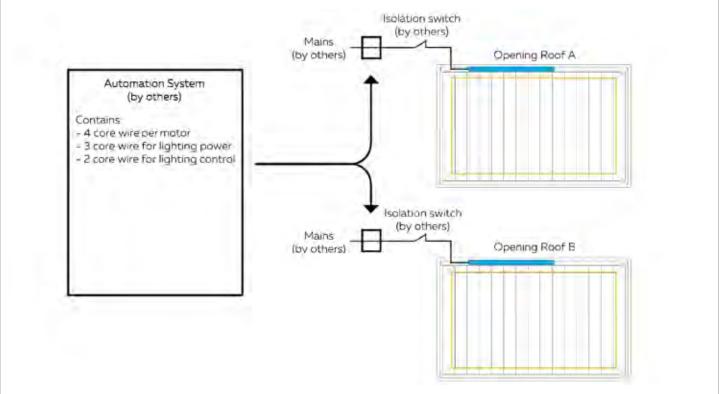


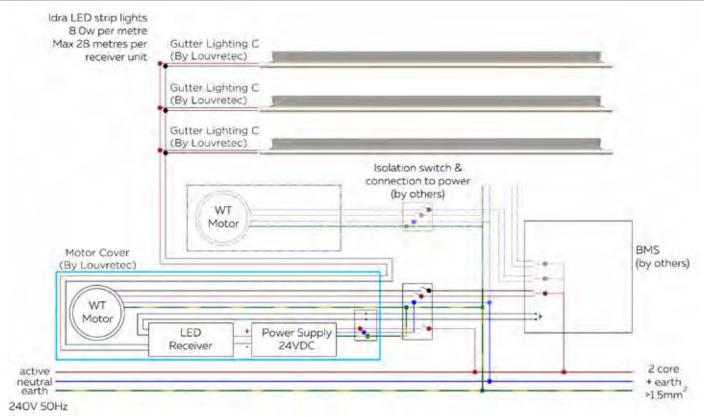


Cable Required	4 core double insulated heavy duty flex 4 x 15mm
Voltage	230-240V/50Hz
Rated Current	3.2 Amps
Current Comsumption	770 Watts



## WIRING DETAIL: MULTIPLE SOMFY WT MOTORS WITH LOUVRETEC GUTTER STRIP LIGHTING & CONTROLLED BY BMS



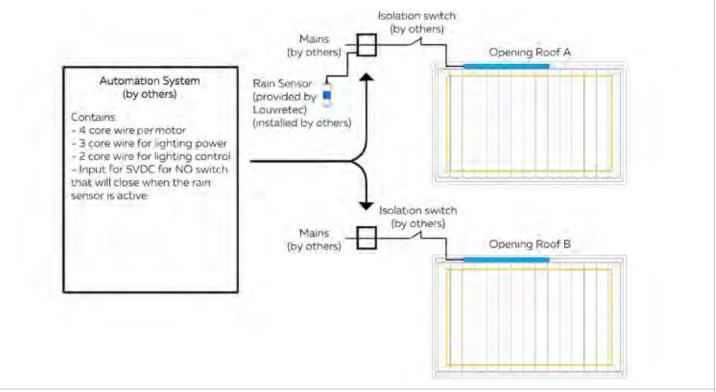


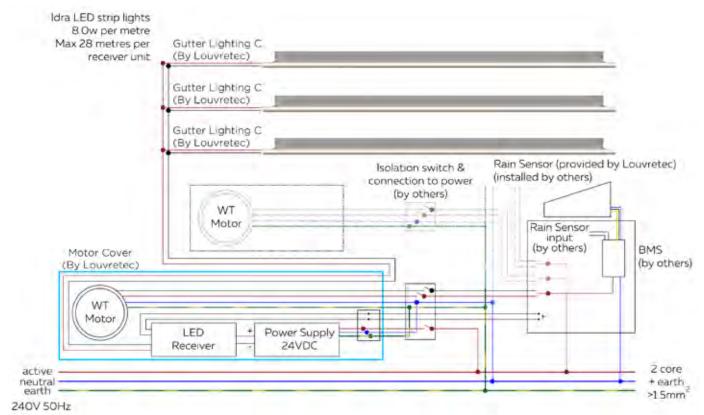


Cable Required	4 core double insulated heavy duty flex $4 \times 1.5 \text{mm}$
Voltage	230-240V/50Hz
Rated Current	3.2 Amps + 0.8 Amps per motor
Current Comsumption	570 Watts = 192 Watts per motor

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## WIRING DETAIL: MULTIPLE SOMFY WT MOTORS WITH LOUVRETEC GUTTER STRIP LIGHTING, RAIN SENSOR & CONTROLLED BY BMS



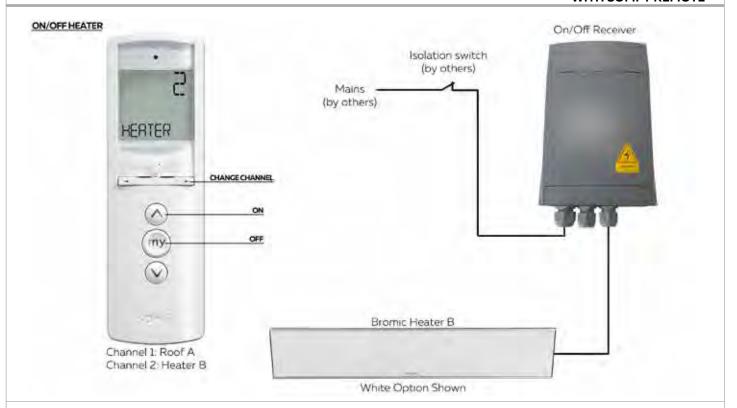


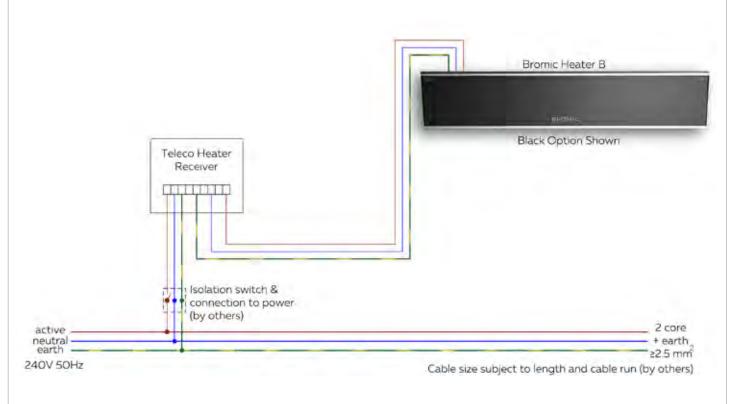


Cable Required	4 core double insulated heavy duty flex 4 x 1.5mm
Voltage	230-240V/50Hz
Rated Current	3.2 Amps + 0.8 Amps per motor
Current Comsumption	770 Watts + 192 Watts per motor



#### WIRING DETAIL: SINGLE ON/OFF BROMIC HEATER WITH SOMFY REMOTE





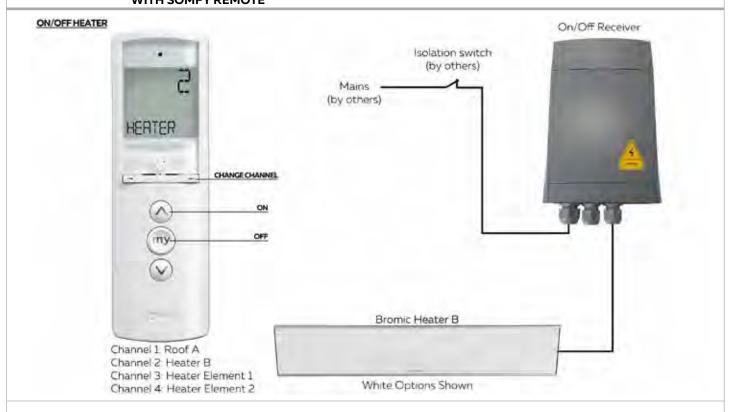


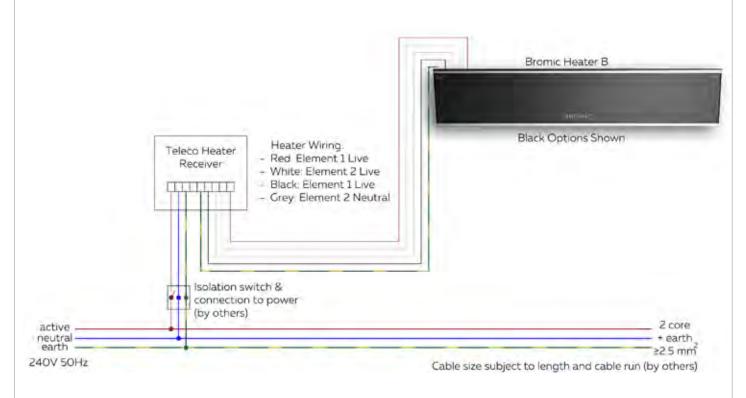
Cable Required	3 core double insulated heavy duty flex $3 \times 225 \text{mm}$
Voltage	230-240V/50Hz
Rated Current	10 - 14.2 Amps
Current Comsumption	24-34KW

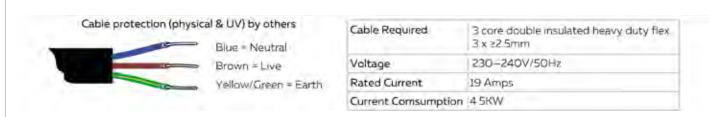
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#### WIRING DETAIL: SINGLE 4.5KW ON/OFF BROMIC HEATER WITH SOMFY REMOTE

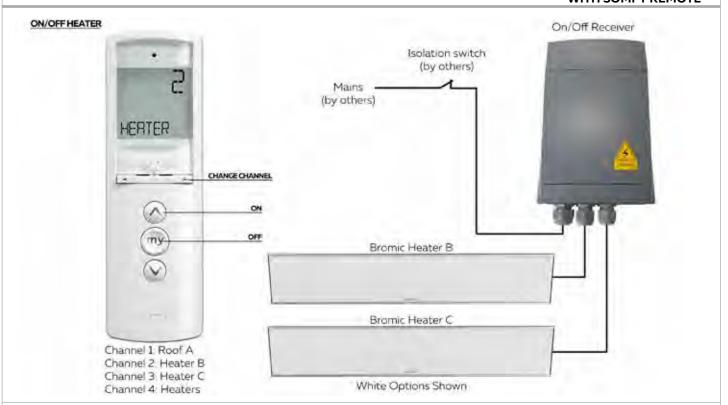


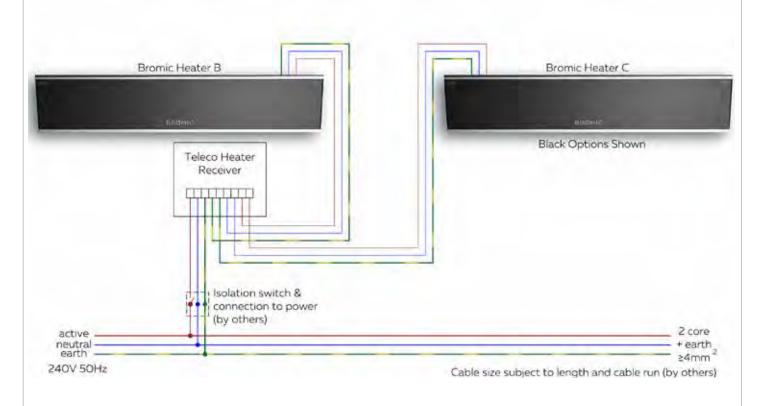






#### WIRING DETAIL: MULTIPLE ON/OFF BROMIC HEATERS WITH SOMFY REMOTE





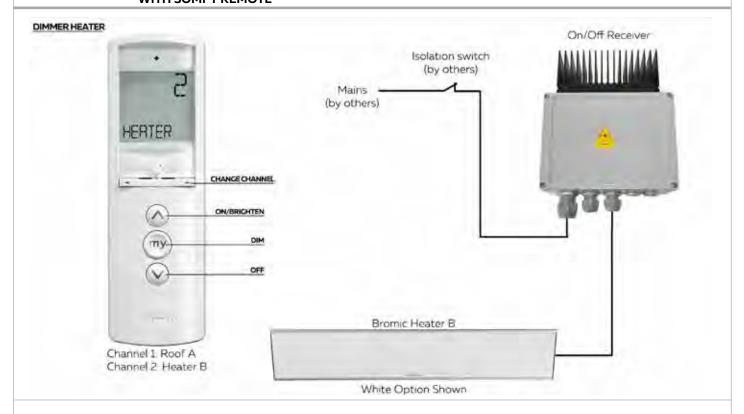


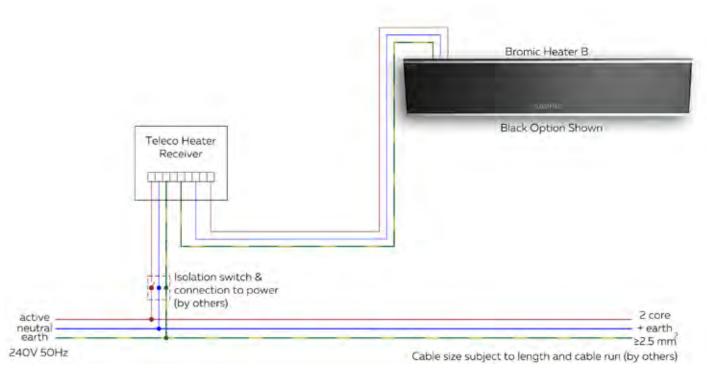
Cable Required	3 core double insulated heavy duty flex 3 x ≥4mm supply & 3 x ≥5mm to heaters
Voltage	230-240V/50Hz
Rated Current	10 - 14 2 Amps per heater
Current Comsumption	24 - 34KW per heater

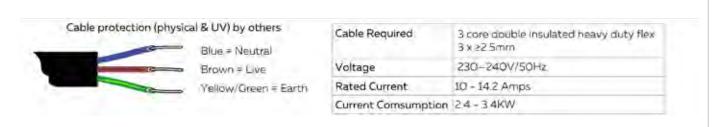
www.louvretec.com.au

DATE MODIFIED: 01/10/2024 FILE: ELECTRICAL WIRING DIAGRAMS 14.37

#### WIRING DETAIL: SINGLE DIMMABLE BROMIC HEATER WITH SOMFY REMOTE

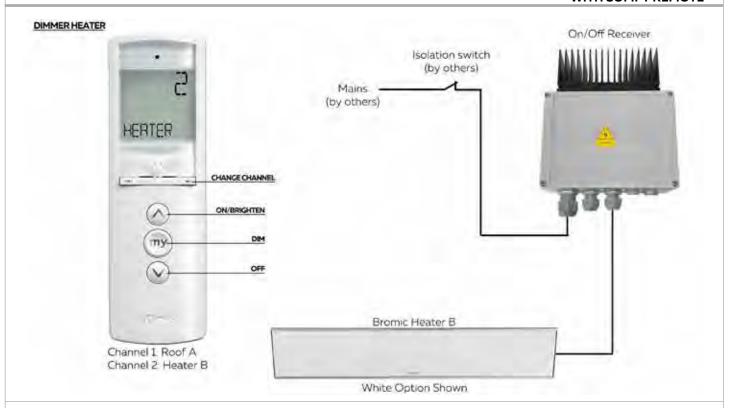


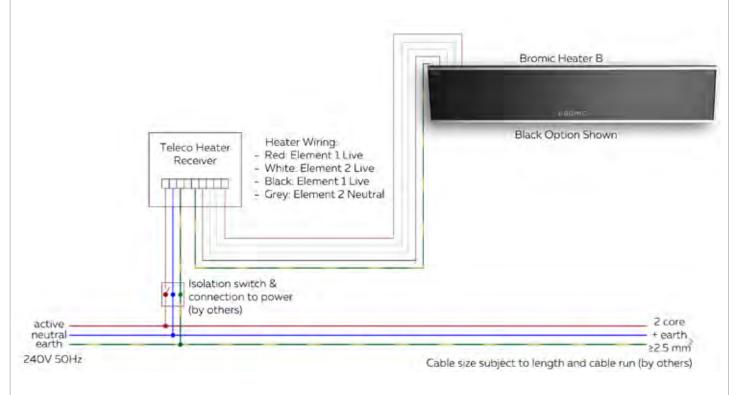






#### WIRING DETAIL: SINGLE 4.5KW DIMMABLE BROMIC HEATER WITH SOMFY REMOTE





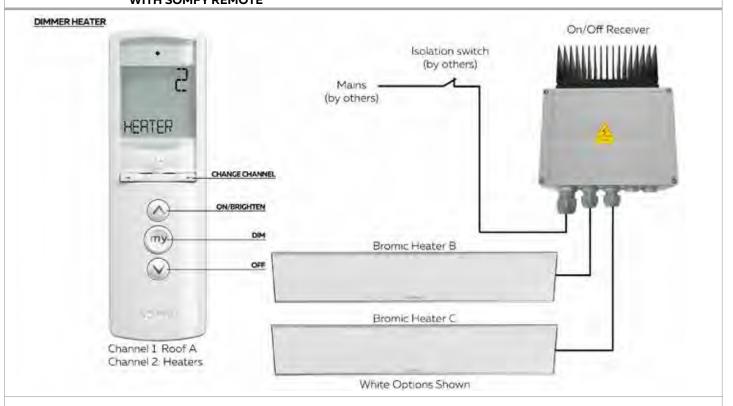


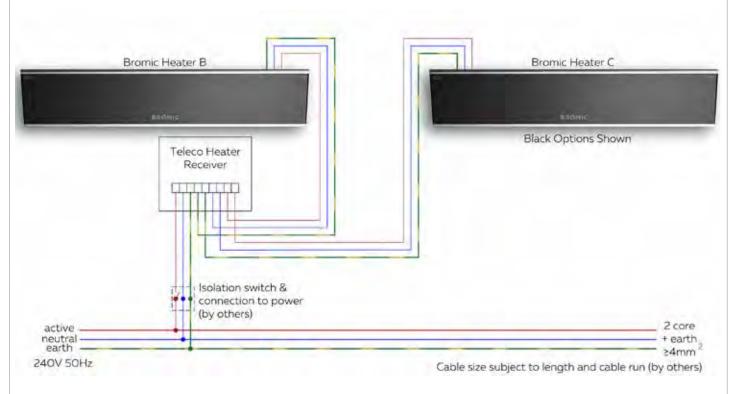
Cable Required	3 core double insulated heavy duty flex 3 x ≥2.5mm
Voltage	230-240V/50Hz
Rated Current	19 Amps
Current Comsumption	4 5KW

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#### WIRING DETAIL: MULTIPLE DIMMABLE BROMIC HEATERS WITH SOMFY REMOTE







Cable Required	3 core double insulated heavy duty flex 3 x ≥4mm supply & 3 x 25mm to heaters
Voltage	230-240V/50Hz
Rated Current	10 - 14.2 Amps per heater
Current Comsumption	2.4 - 3.4KW per heater

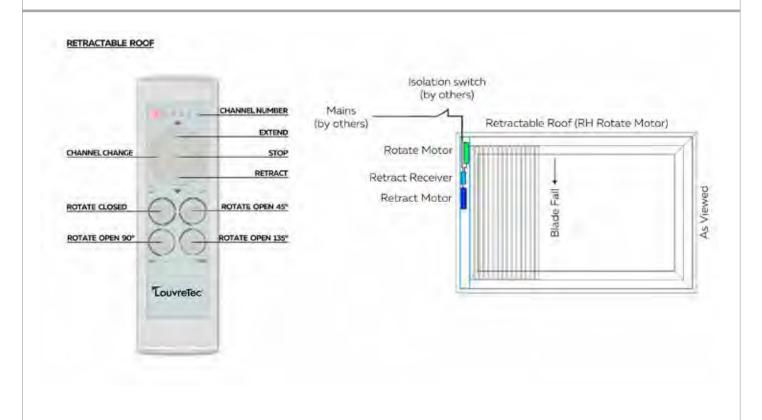


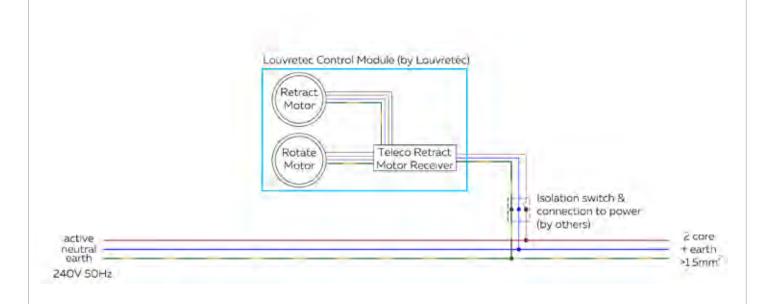


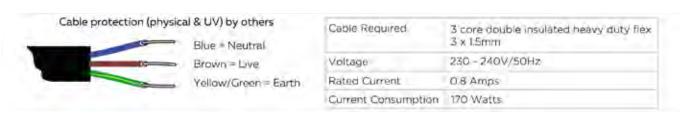
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#### WIRING DETAIL: SINGLE RETRACTABLE ROOF & LOUVRETEC REMOTE

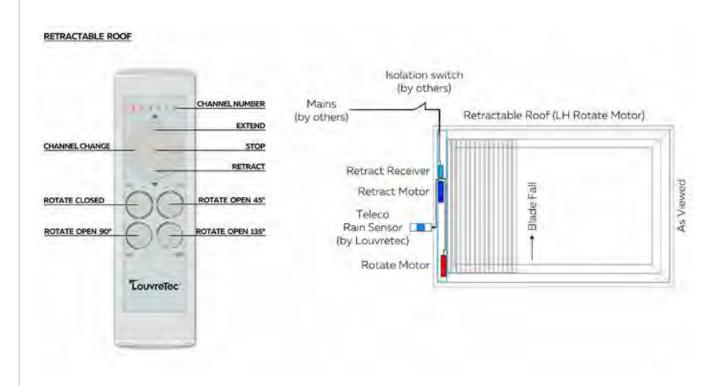


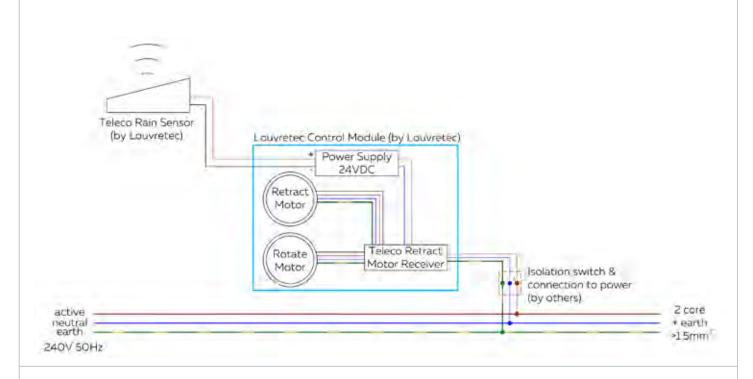






#### WIRING DETAIL: SINGLE RETRACTABLE ROOF WITH RAIN SENSOR & LOUVRETEC REMOTE





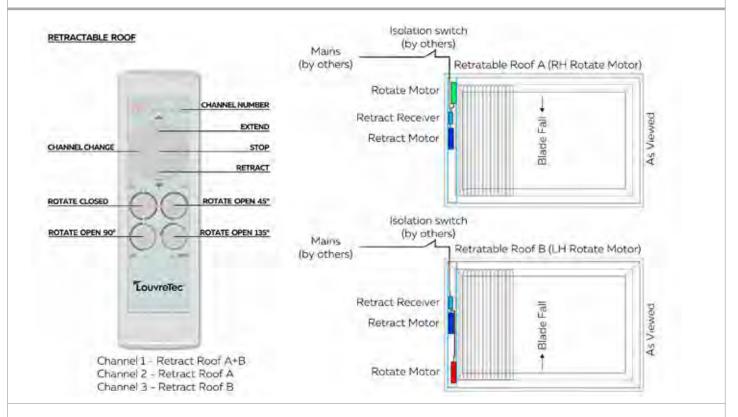


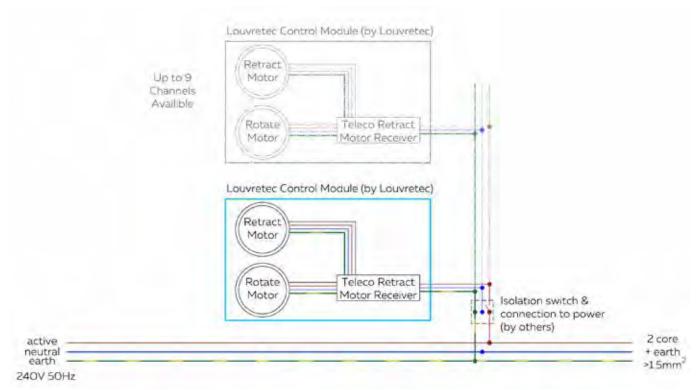
Cable Required	3 core double insulated heavy duty flex 3 x 1.5mm
Voltage	230 - 240V/50Hz
Rated Current	0.8 Amps
Current Consumption	170 Watts

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#### WIRING DETAIL: MULTIPLE RETRACTABLE ROOFS & LOUVRETEC REMOTE



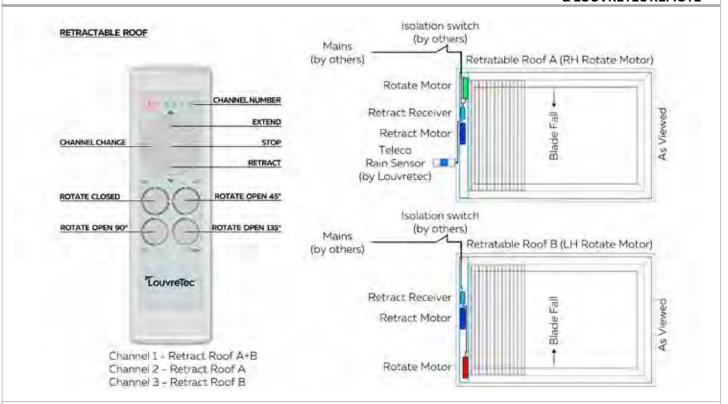


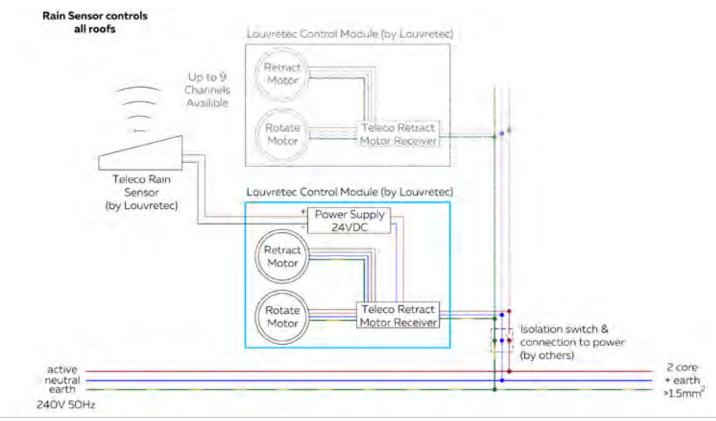


Cable Required	3 core double insulated heavy duty flex $3 \times 1.5 \text{mm}$
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per roof
Current Comsumption	170 Watts per roof



## WIRING DETAIL: MULTIPLE RETRACTABLE ROOFS WITH RAIN SENSOR & LOUVRETEC REMOTE



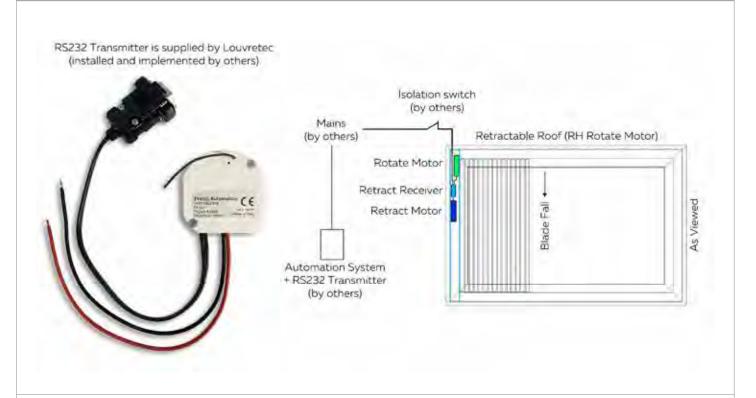


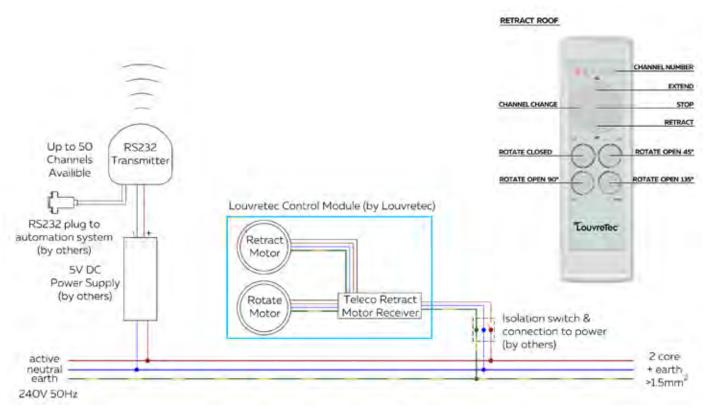


Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per roof
Current Comsumption	170 Watts per roof

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#### WIRING DETAIL: SINGLE RETRACTABLE ROOFS WITH RS232 TRANSMITTER & OPTIONAL LOUVRETEC REMOTE



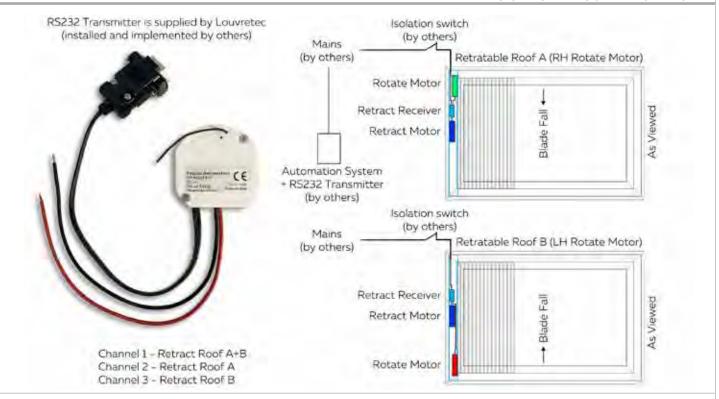


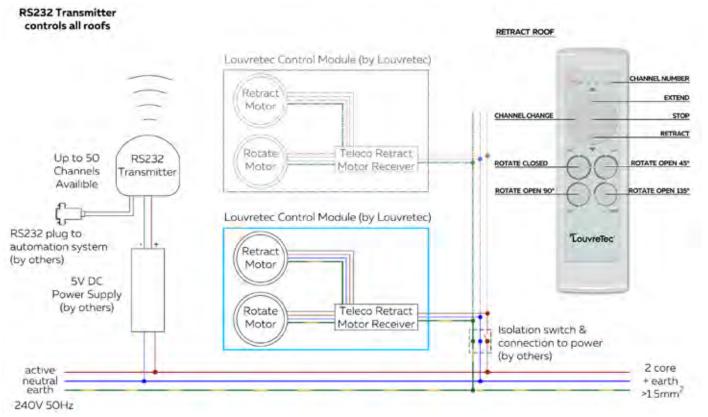


Cable Required	3 core double insulated heavy duty flex 3 x 1.5mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per roof
Current Comsumption	170 Watts per roof



## WIRING DETAIL: MULTIPLE RETRACTABLE ROOFS WITH RS232 TRANSMITTER & OPTIONAL LOUVRETEC REMOTE



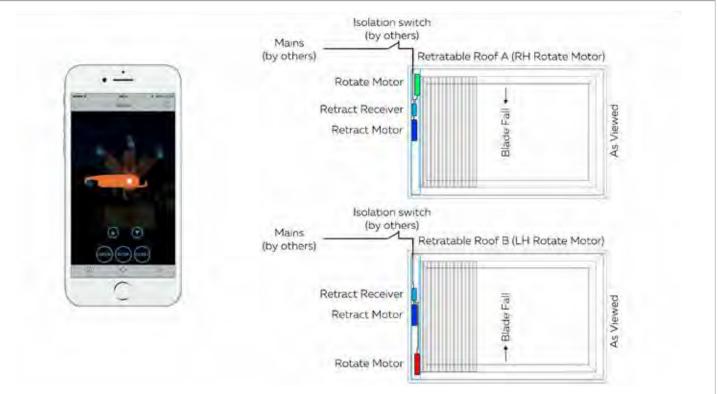


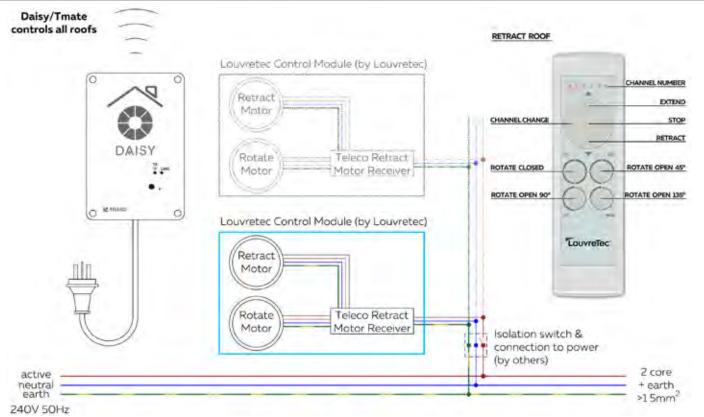


Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per roof
Current Comsumption	170 Watts per roof

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#### WIRING DETAIL: MULTIPLE RETRACTABLE ROOFS WITH DAISY/TMATE & OPTIONAL LOUVRETEC REMOTE



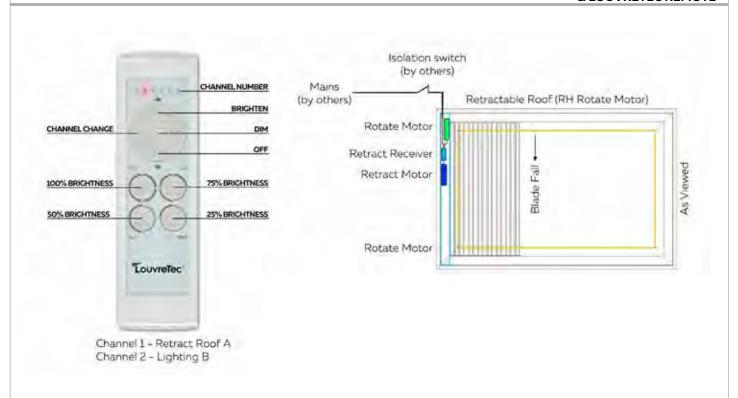


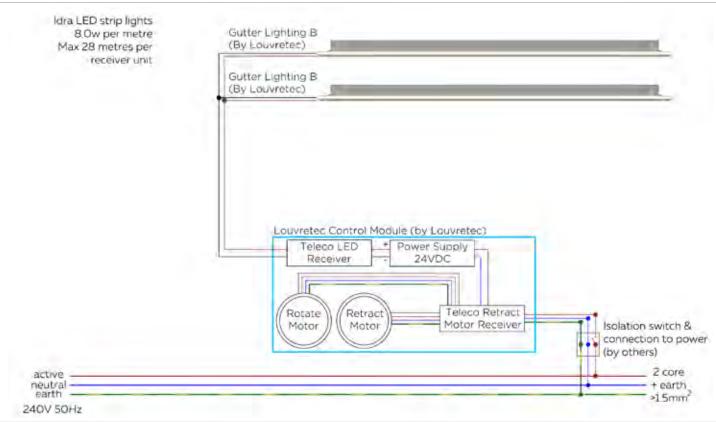


Cable Required	3 core double insulated heavy duty flex 3 x 1.5mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per roof
Current Comsumption	170 Watts per roof



## WIRING DETAIL: SINGLE RETRACTABLE ROOF WITH LOUVRETEC GUTTER STRIP LIGHTING & LOUVRETEC REMOTE





## Cable protection (physical & UV) by others Blue = Neutral Brown = Live Yellow/Green = Earth

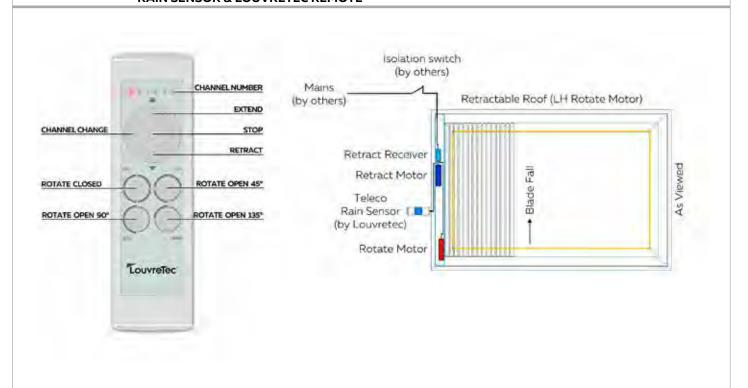
Cable Required	3 core double insulated heavy duty flex 3 x 1.5mm
Voltage	230 - 240V/50Hz
Rated Current	3.2 Amps per roof
Current Consumption	770 Watts per roof

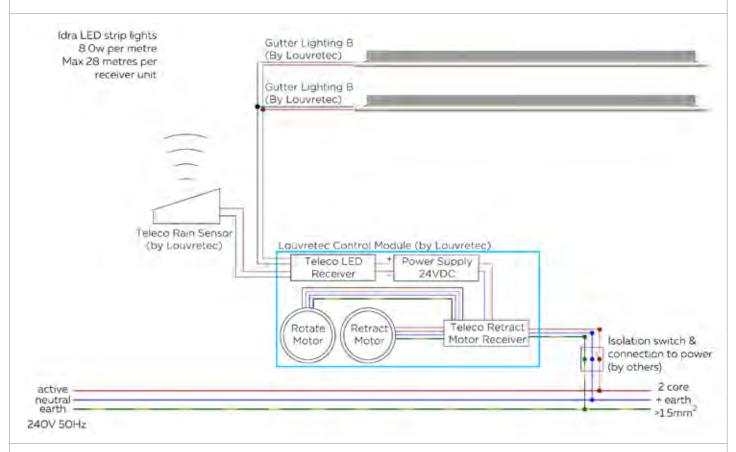
SCALE:

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#### WIRING DETAIL: SINGLE RETRACTABLE ROOF WITH LOUVRETEC GUTTER STRIP LIGHTING, **RAIN SENSOR & LOUVRETEC REMOTE**



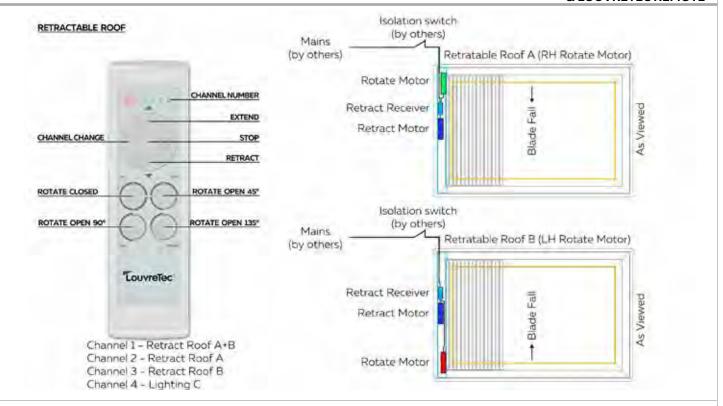


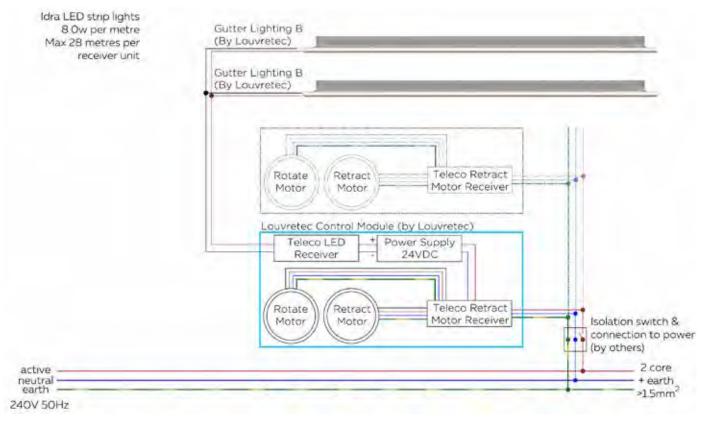


Cable Required	3 core double insulated heavy duty flex 3 x 1.5mm
Voltage	230 - 240V/50Hz
Rated Current	3.2 Amps per roof
Current Consumption	770 Watts per roof



## WIRING DETAIL: MULTIPLE RETRACTABLE ROOFS WITH LOUVRETEC GUTTER STRIP LIGHTING & LOUVRETEC REMOTE





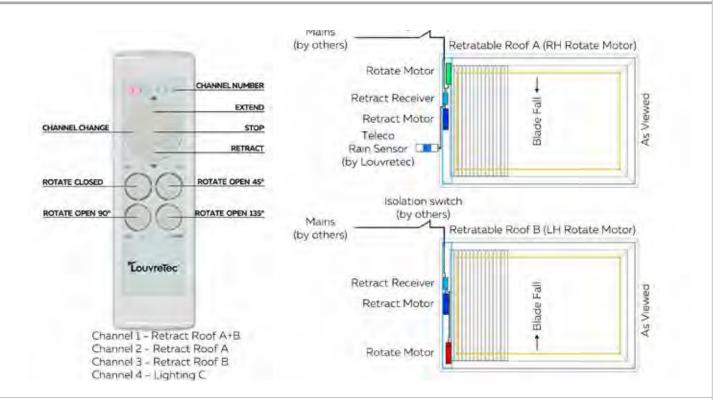


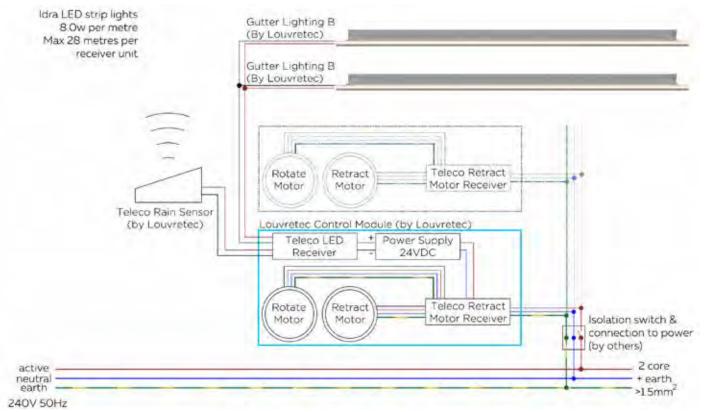
Cable Required	3 core double insulated heavy duty flex 3 x 1.5mm
Voltage	230-240V/50Hz
Rated Current	2.5 Amps = 0.8 Amps per roof
Current Comsumption	570 Watts + 170 Watts per roof

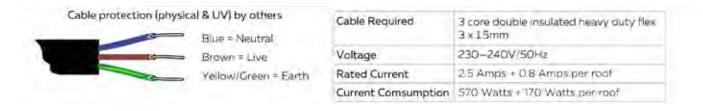
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DATE MODIFIED: 01/10/2024 FILE: ELECTRICAL WIRING DIAGRAMS 14.51

#### WIRING DETAIL: MULTIPLE RETRACTABLE ROOFS WITH LOUVRETEC GUTTER STRIP LIGHTING, **RAIN SENSOR & LOUVRETEC REMOTE**

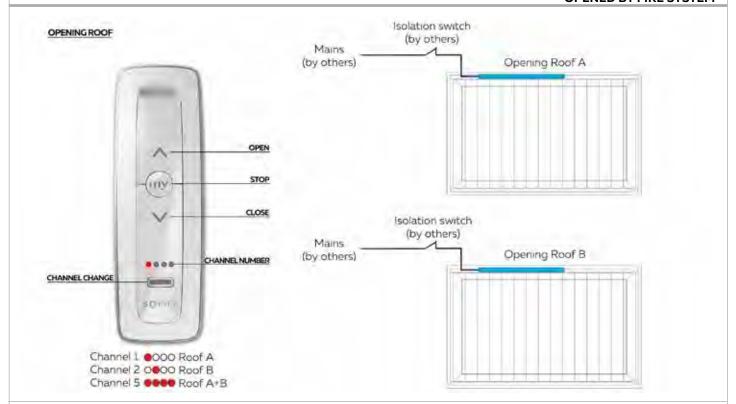


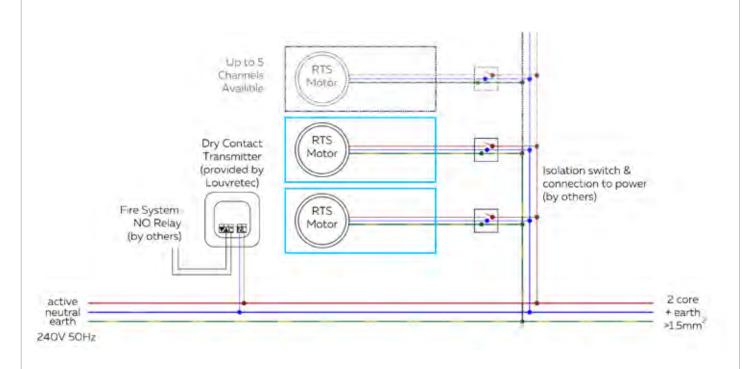






## WIRING DETAIL: MULTIPLE SOMFY RTS MOTORS & SOMFY REMOTE OPENED BY FIRE SYSTEM

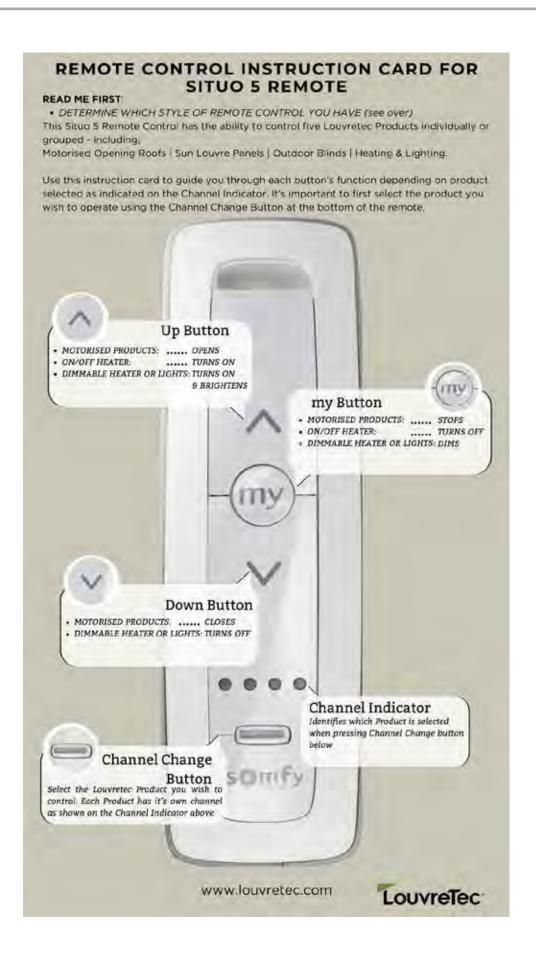






Cable Required	3 core double insulated heavy duty flex 3 x 15mm
Voltage	230-240V/50Hz
Rated Current	0.8 Amps per motor
Current Comsumption	170 Watts per motor

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MOTORISED PRODUCTS:

DIMMABLE HEATER OR LIGHTS: TURNS OFF

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