



SPIRAL PIVOT SUN LOUVRES



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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.

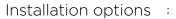
Reliability

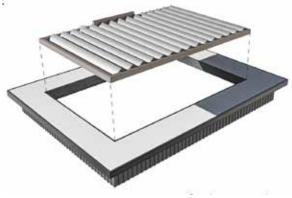
2025 sees over one million individual louvre blades worldwide pivoting with the Louvretec Spiral Drive system. Numbers that speak volumes regarding style, reliability & being totally fit for purpose.



MOTORISED, VERTICAL SUN LOUVRES INCLUDING STRUCTURAL FRAME

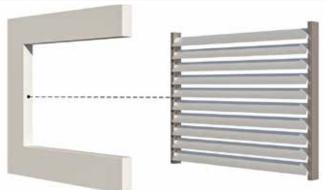
MOTORISED & HAND OPERABLE SPIRAL PIVOT SUN LOUVRE PANELS





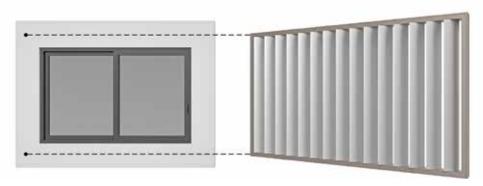
OVERHEAD FITTING INTO AN EXISTING OPENING

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

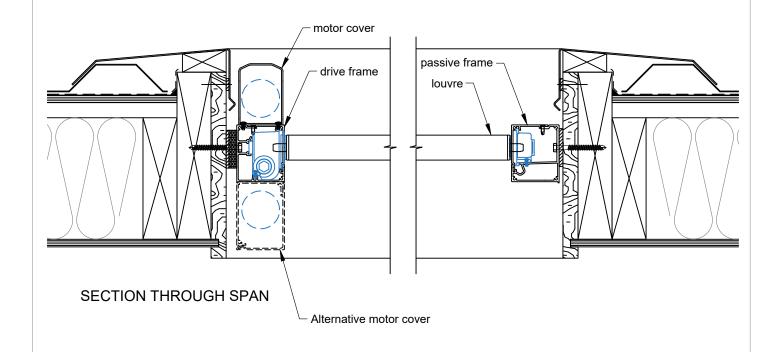
Hand Operable Option



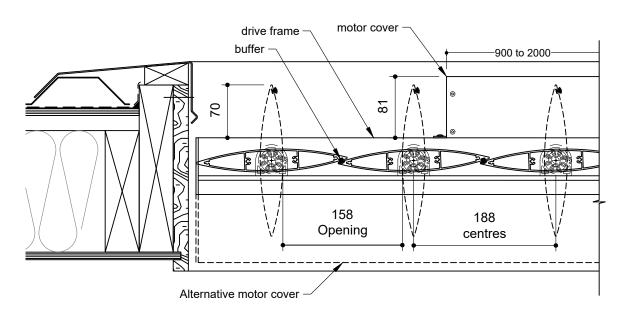
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TYPICAL DETAIL: MOTORISED OVERHEAD SPIRAL PIVOT SUN LOUVRES FITTING INTO EXISTING OPENING

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



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

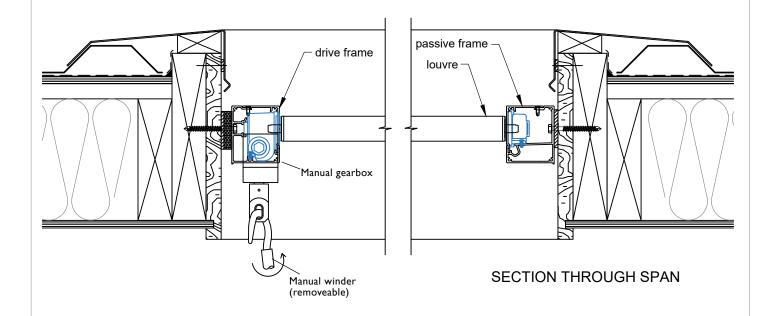


SECTION THROUGH LOUVRES

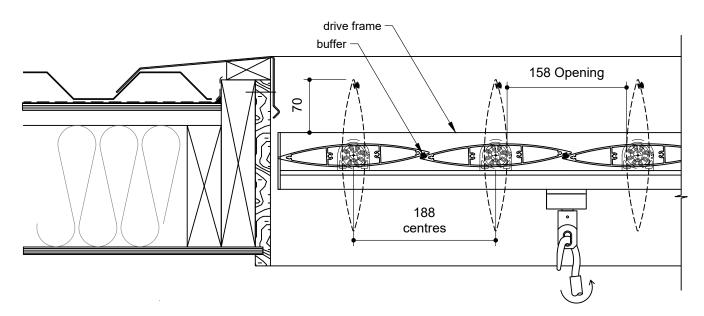


TYPICAL DETAIL: HAND OPERABLE OVERHEAD SPIRAL PIVOT SUN LOUVRES FITTING INTO EXISTING OPENING

SECTION - MANUALLY OPERABLE 200MM MAXI LOUVRE INTO EXISTING OPENING



SECTION - MANUALLY OPERABLE 200MM MAXI LOUVRE INTO EXISTING OPENING



SECTION THROUGH LOUVRES

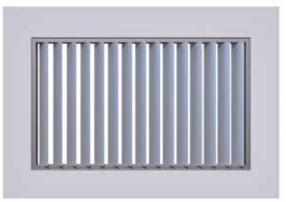
SCALE: www.louvretec.co.nz DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.07

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VERTICAL SPIRAL PIVOT SUN LOUVRE PANELS

Installation: Blades can be installed vertically or horizontally



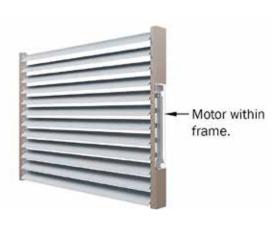
1. VERTICAL MOTORISED LOUVRE PANEL WITH BLADES RUNNING VERTICALLY, FITTING INTO AN EXISTING OPENING



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



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

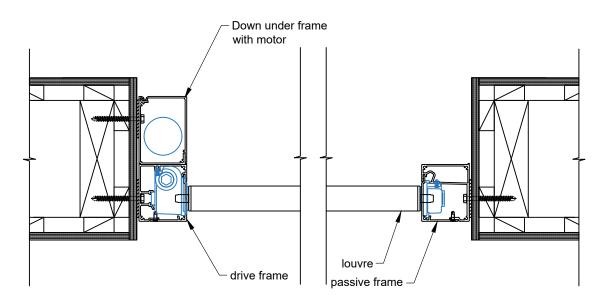
- Short crank handles for easily accessible vertical panels are available in three standard lengths; 30mm, 95mm, 150mm
- · Refer to page 10.2.14 for details

OVERHEAD PANELS

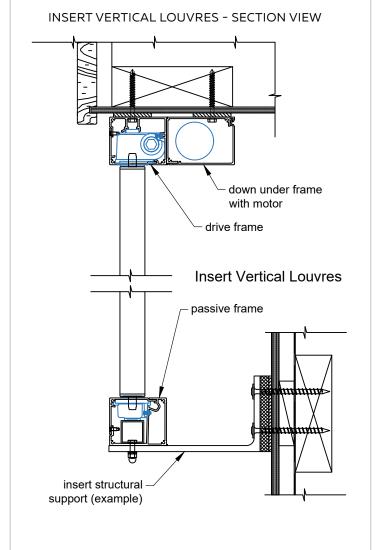
- Overhead access is made easy with hook handles available in the following standard lengths;
 600mm, 900mm 1200mm, 1500mm, 1800mm
- · A short or long eyelet is also available.

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

INSERT HORIZONTAL LOUVRES - PLAN VIEW

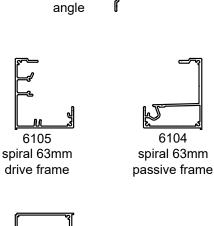


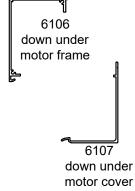
Insert Horizontal Louvres



DRIVE, PASSIVE & DOWN UNDER **FRAMES**

6102 spiral cover





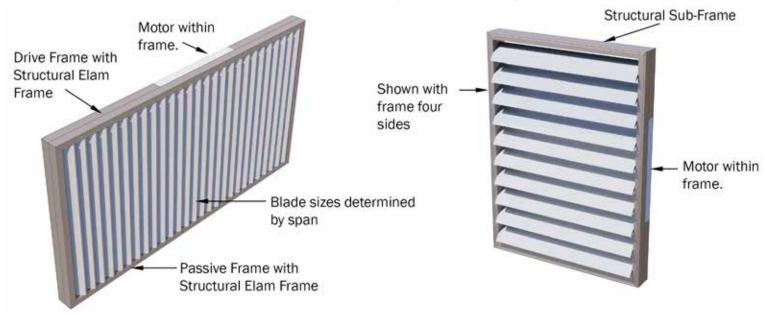
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.09

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VERTICAL SPIRAL PIVOT SUN LOUVRE PANELS

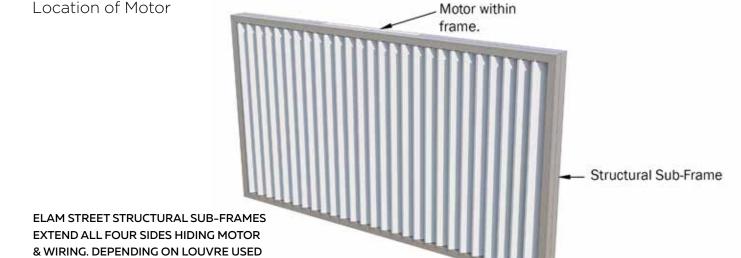
Installation: Blades can be installed vertically or horizontally in a Structural Sub-Frame



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

CONFIGURATION DRIVE & PIVOT SIDES CAN BE EITHER TOP OR BOTTOM, RIGHT OR LEFT

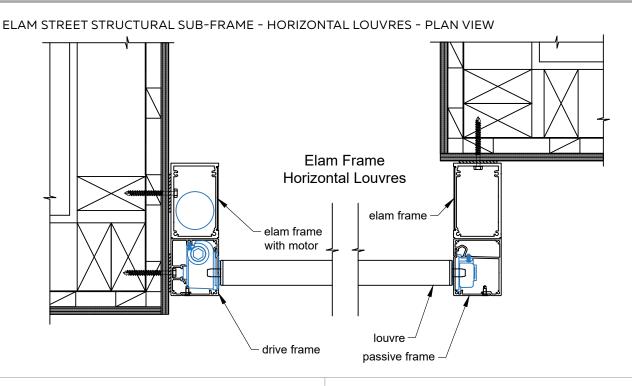
2. VERTICAL MOTORISED SUN LOUVRES RUNNING HORIZONTALLY, FITTING WITHIN AN ELAM STREET STRUCTURAL SUB-FRAME



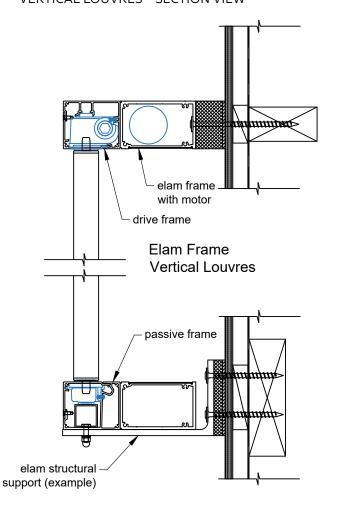
Hand Operable

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.

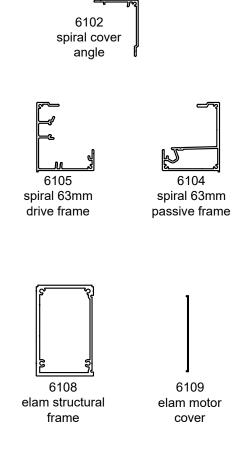
TYPICAL DETAIL: VERTICAL SUN LOUVRE PANELS REQUIRING AN ELAM STREET STRUCTURAL SUB-FRAME



ELAM STREET STRUCTURAL SUB-FRAME VERTICAL LOUVRES - SECTION VIEW



ELAM STREET STRUCTURAL SUB-FRAMES



SCALE:

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DRIVE SYSTEM - SPIRAL PIVOT

Vertical Balustrades

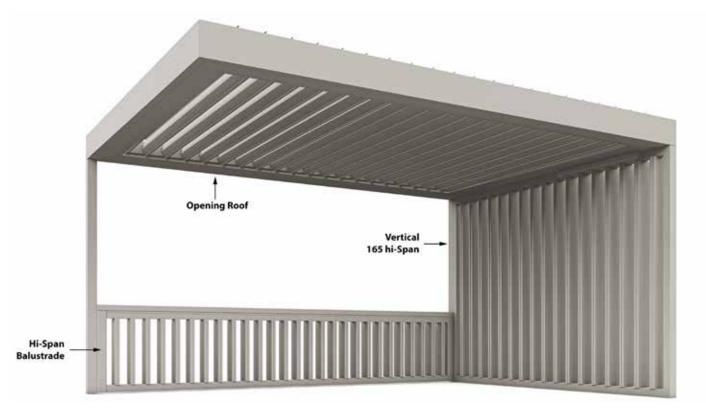
Louvretec's Hi-Span Spiral Pivot operated balustrade louvre system has been designed to meet Australian & NZ Standards.

- 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



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

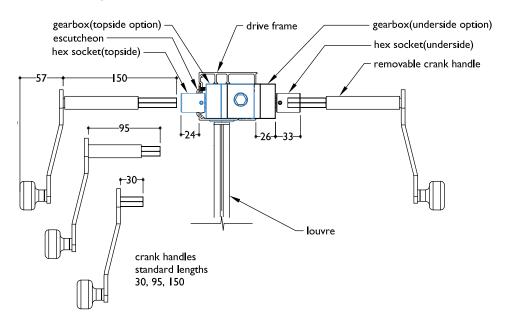


200MM MAXI LOUVRE RAKING PANEL. MOTORISED BY SPIRAL PIVOT SYSTEM

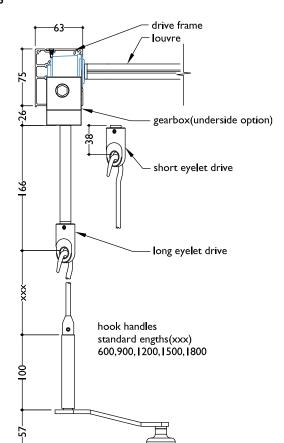
SPIRAL PIVOT DRIVE SYSTEM

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 115KM/H 32M/S



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.

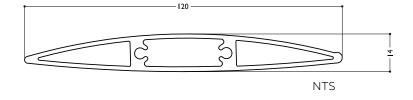
SPIRAL PIVOT APPLICATION	LOUVRE	MAXIMUM SPANS
	120 AIRFOIL LOUVRE	1600MM HIGH LOW
MOTORISED	180 AIRFOIL LOUVRE	2050MM EX LOW
& HAND	150 MIDI LOUVRE	1900MM EX HIGH
OPERABLE INSERT	200 MAXI LOUVRE	2350MM EX HIGH
PANELS	120 FLUSH MINI LOUVRE	1750MM EX HIGH
	180 FLUSH MIDI LOUVRE	2250MM HIGH 3350MM LOW
	200 FLUSH MAXI LOUVRE	2250MM HIGH 3350MM LOW
RAKING	200 MAXI LOUVRE	2350MM EX HIGH
PANELS	200 FLUSH MAXI LOUVRE	2250MM EX HIGH 3350MM LOW
BALUSTRADES	135 HI SPAN BALUSTRADE	3000MM LOW
BALOSTIADES	165 HI SPAN BALUSTRADE	3300MM FIGH

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



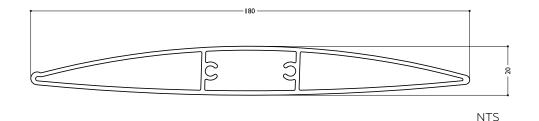


120MM AIRFOIL LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.18

180MM AIRFOIL LOUVRE

Solution for wider openings





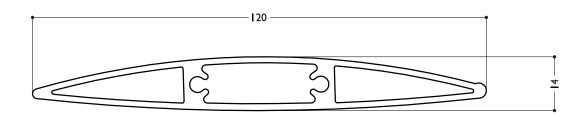
180MM AIRFOIL LOUVRE

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	n 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

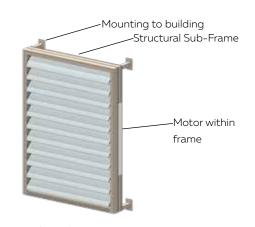
Blade cover 1960

+ top and bottom closing

angles allow for

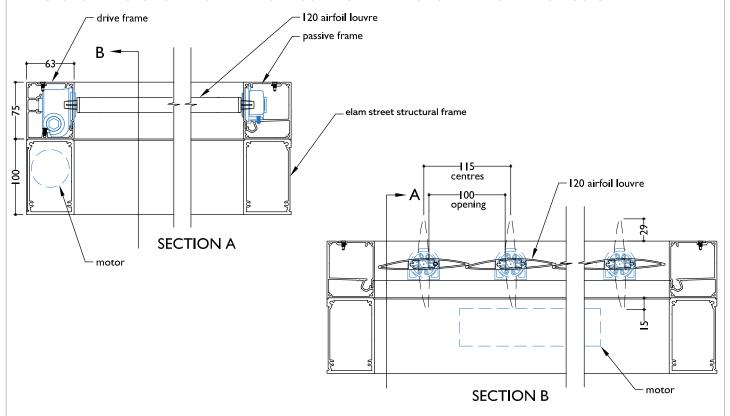
5mm + 5mm 10 Total exact opening height =1970

*This is inside measure - not outer frame size

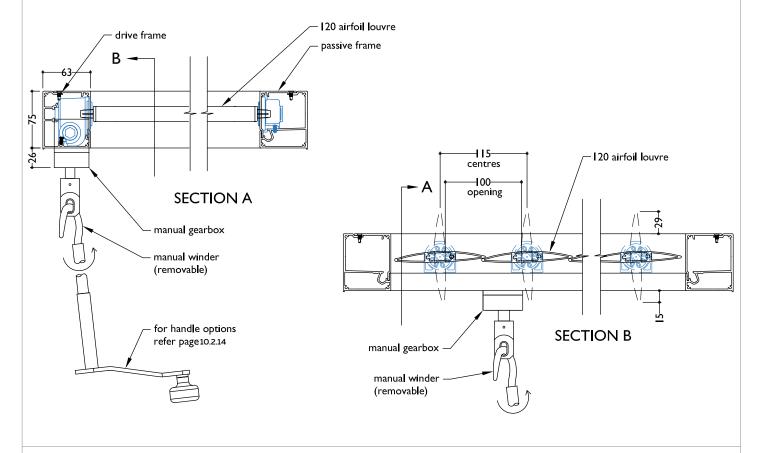


ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HORIZONTAL BLADES

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

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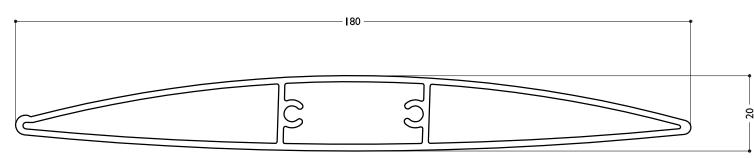
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SUN LOUVRES SPIRAL PIVOT



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	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

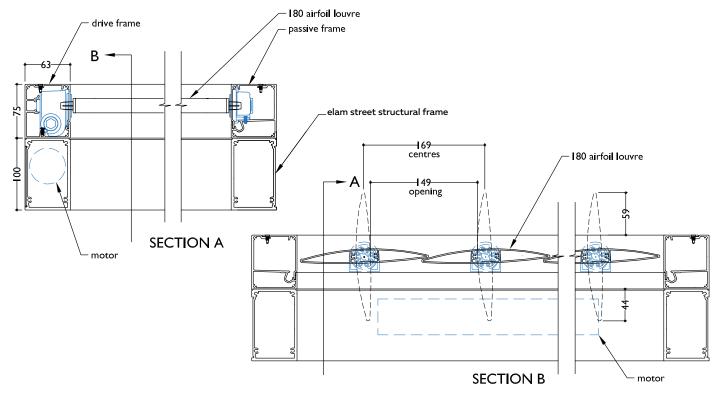
5mm + 5mm 10 Total exact opening height = 2894*

*This is inside measure - not outer frame size

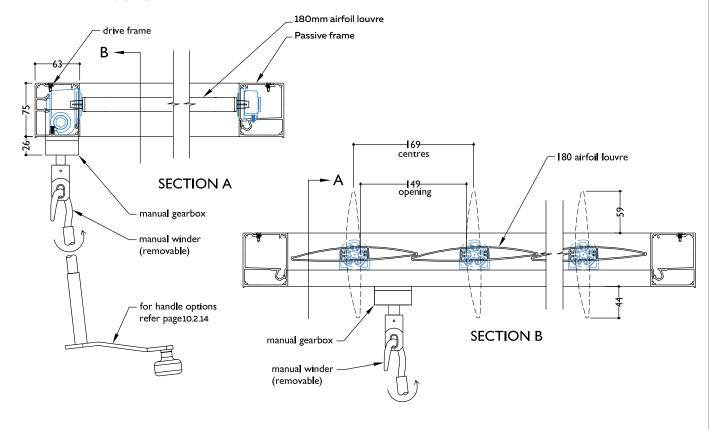


ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HAND OPERABLE HORIZONTAL BLADES

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:

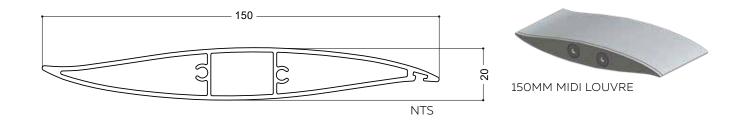
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.21

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150MM MIDI LOUVRE

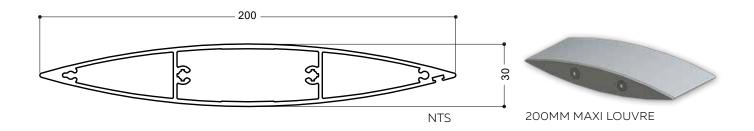
Wave shaped louvre



REFER TECHNICAL DETAILS PAGES 10.2.23

200MM MAXI LOUVRE

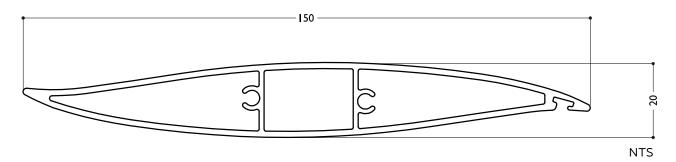
Most specified Maxi Louvre



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	n 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

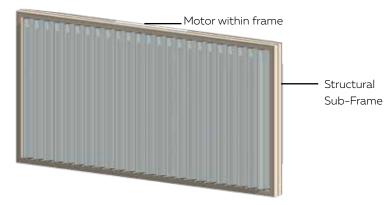
+ top and bottom closing

angles allow for

5mm + 5mm 10

Total exact opening height =2368*

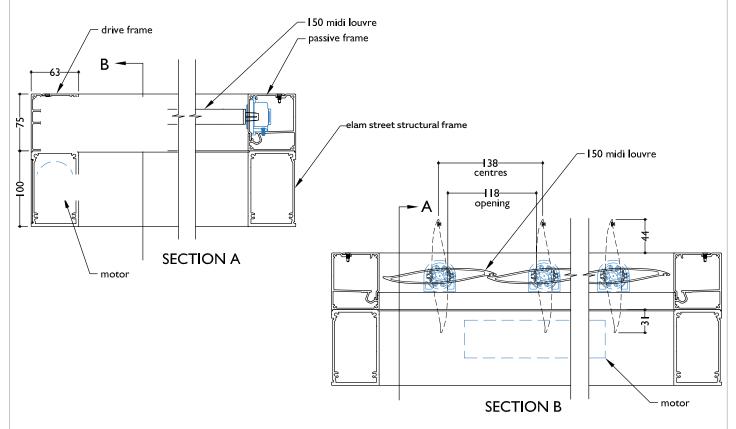
*This is inside measure - not outer frame size



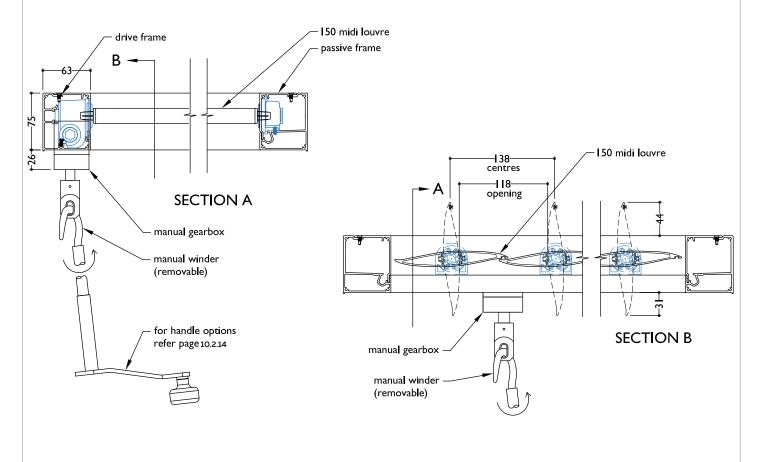
ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME VERTICAL PANEL - VERTICAL BLADES

TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 150MM MIDI LOUVRE

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



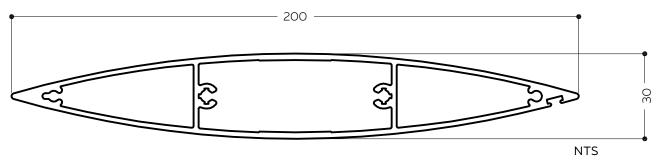
SECTION - MANUALLY OPERABLE 150MM MIDI LOUVRE SPIRAL PIVOT INSERT PANEL - FOUR SIDED FRAME







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	m 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*

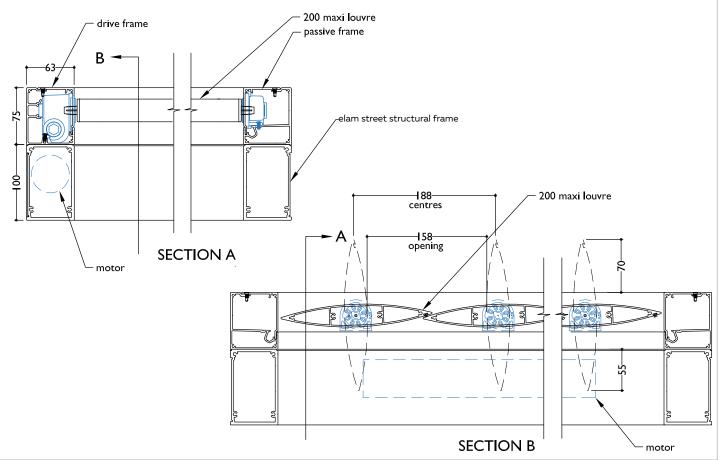
*This is inside measure - not outer frame size



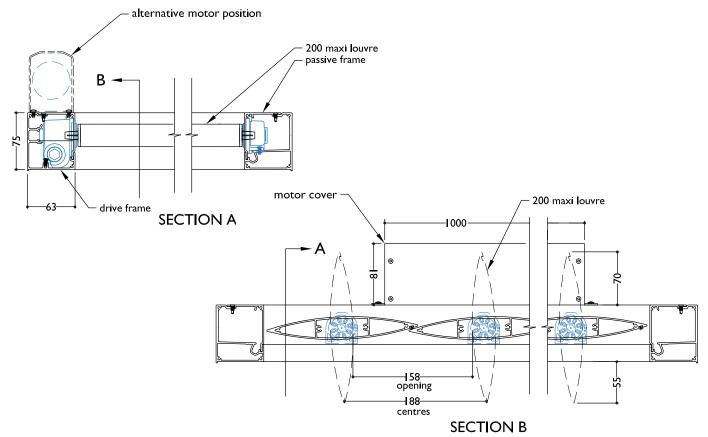
ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HAND OPERABLE HORIZONTAL BLADES

TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 200MM MAXI LOUVRE

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



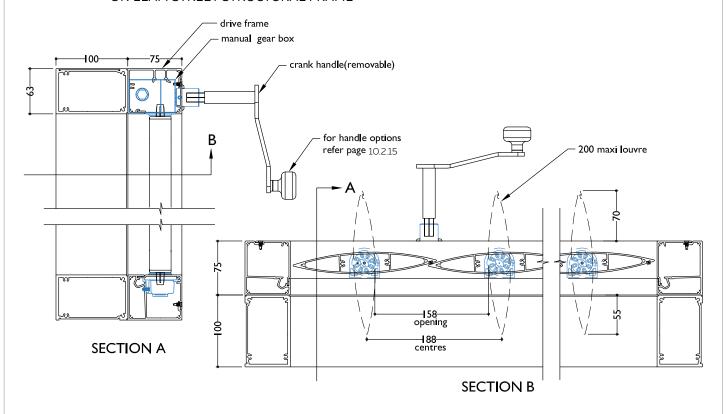
SECTION - MOTORISED 200MM MAXI LOUVRE SPIRAL PIVOT WITH TOP MOUNTED MOTOR INSERT PANEL FOUR SIDED FRAME



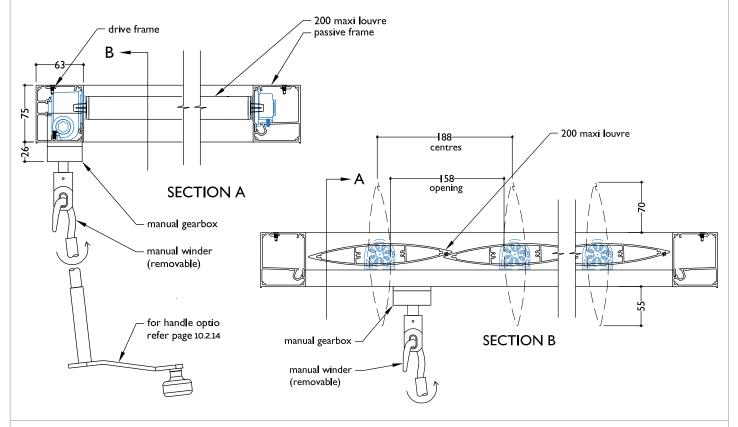


TYPICAL DETAIL: HAND OPERABLE SPIRAL PIVOT SYSTEM 200MM MAXI LOUVRE

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



SCALE: www.louvretec.co.nz DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.27

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

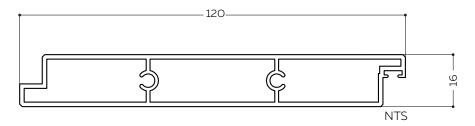


SUN LOUVRES SPIRAL PIVOT RECTANGULAR SUN LOUVRES - SPANS AT A GLANCE MOTORISED & HAND OPERABLE INSERT PANELS RECTANGULAR LOUVRES

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

120MM FLUSH MINI

Wall Panel / Sun Louvre / Balustrade



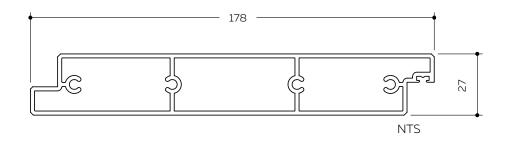


120MM FLUSH MINI LOUVRE CENTRE PIVOT

REFER TECHNICAL DETAILS PAGES 10.2.29

180MM FLUSH MIDI

Wall Panel / Sun Louvre / Balustrade



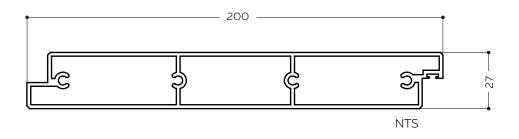


180MM FLUSH MIDI LOUVRE CENTRE PIVOT

REFER TECHNICAL DETAILS PAGES 10.2.31

200MM FLUSH MAXI

Wall Panel / Sun Louvre / Balustrade



200MM FLUSH MAXI
CENTRE PIVOT

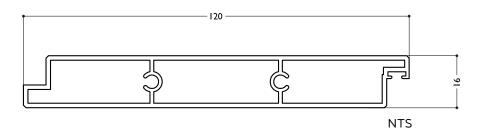
200MM FLUSH MAXI

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 syster	n 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

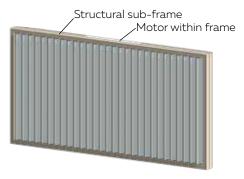
+ top and bottom closing

angles allow for

5mm + 5mm 10

Total exact opening height =2085*

*This is inside measure - not outer frame size

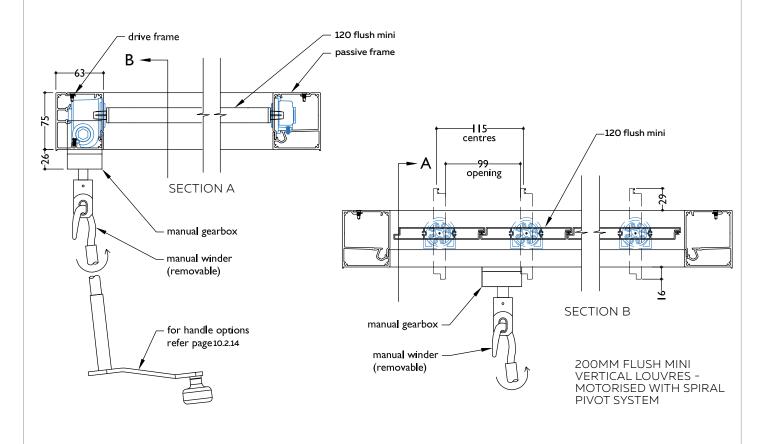


ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME VERTICAL PANEL - VERTICAL BLADES

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 120 flush mini passive frame elam street structural frame 120 flush mini popening SECTION A SECTION B motor

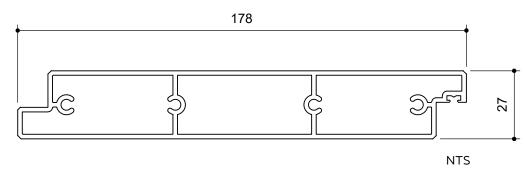
SECTION - SPIRAL PIVOT SYSTEM HAND OPERABLE - 120 FLUSH MINI INSERT IN TO FOUR SIDED FRAME







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 syster	n 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

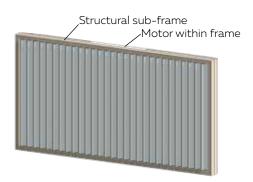
+ top and bottom closing

angles allow for

5mm + 5mm 10

Total exact opening height = 2892*

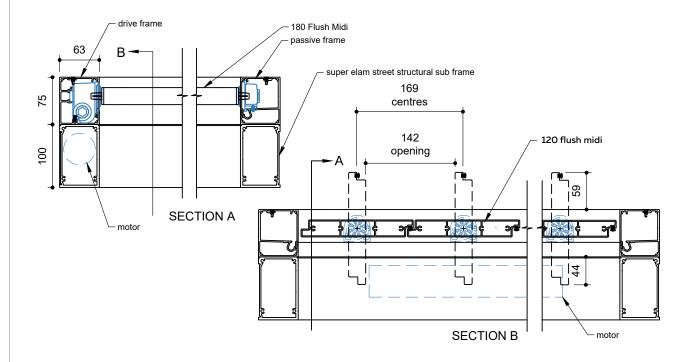
*This is inside measure - not outer frame size



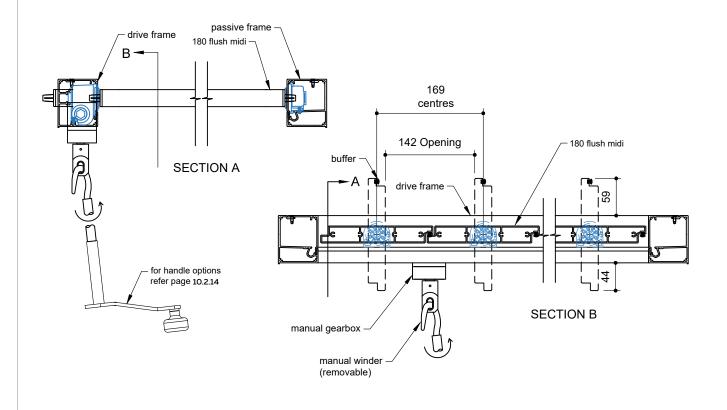
ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME VERTICAL PANEL - VERTICAL BLADES

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



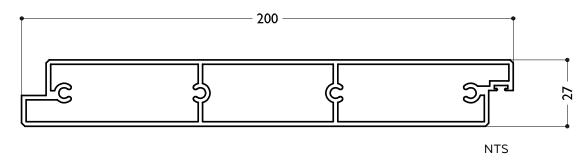
SECTION - SPIRAL PIVOT SYSTEM HAND OPERABLE - 180 FLUSH MIDI INSERT







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	n 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*

*This is inside measure - not outer frame size

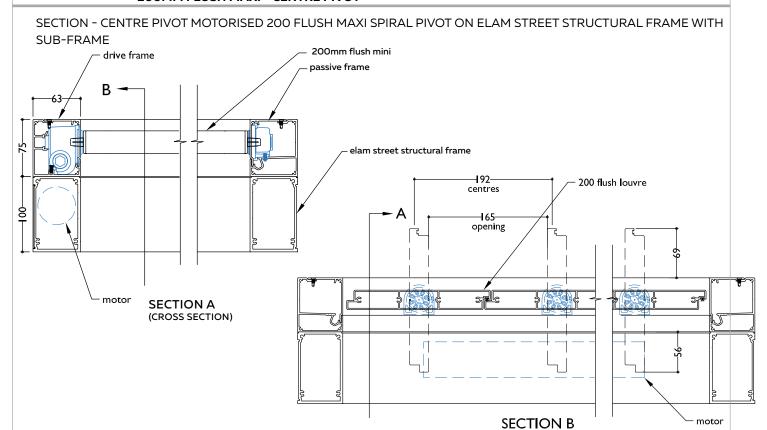


200 FLUSH MAXI - CENTRE PIVOT

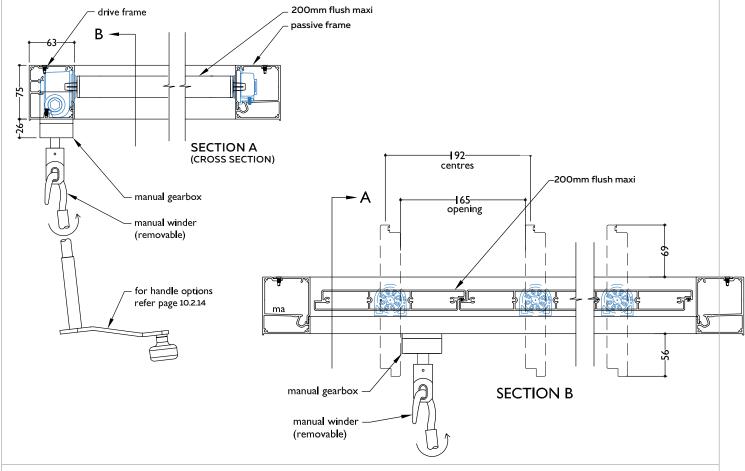


200 FLUSH MAXI - REAR PIVOT

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





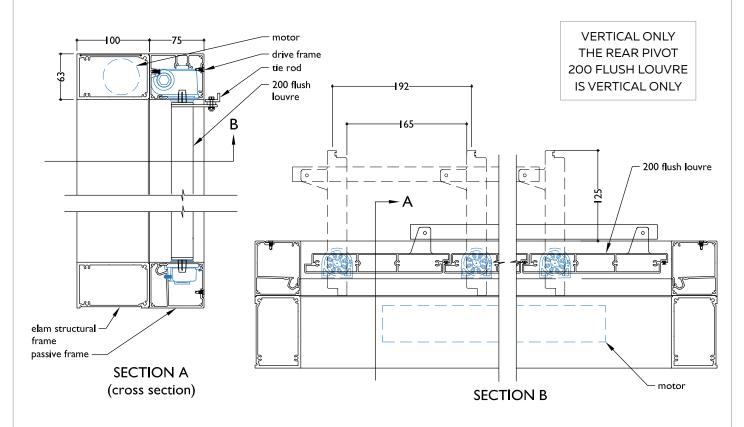


LouvreTec

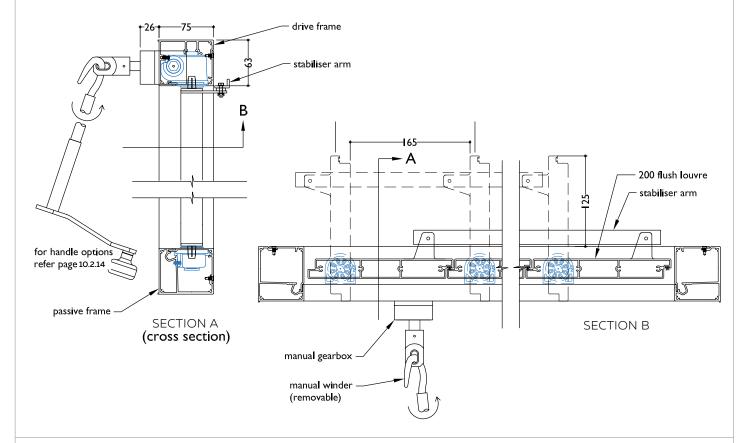
FILE: SUN LOUVRES Spiral Pivot 10.2.34

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

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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DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.35



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

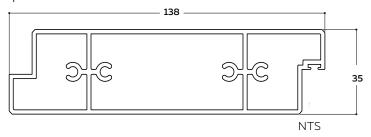
NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

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.
- In Australia the maximum opening between balustrade verticals is 125mm.

135MM HI-SPAN BALUSTRADE LOUVRES

Operable Balustrades



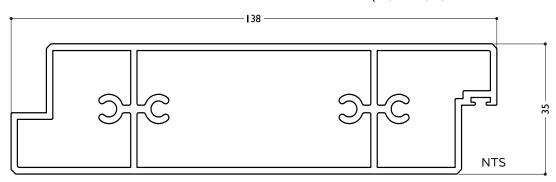
REFER TECHNICAL DETAILS PAGE 10.2.38



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	m 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

CT	ГΊ		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.

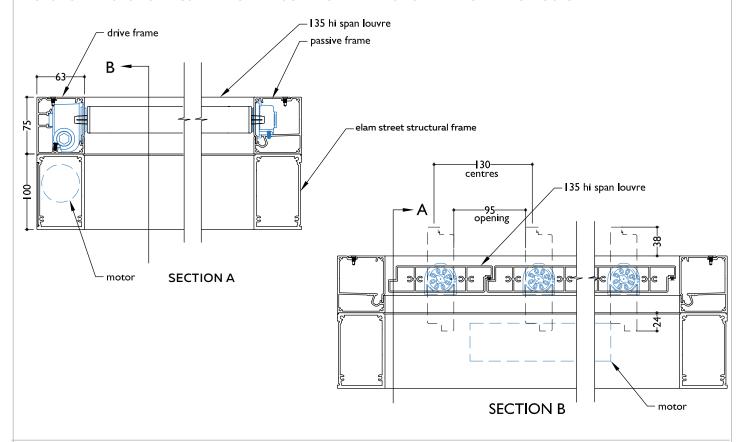
- 1. A barrier is required when someone could fall vertically 1m or more.
- 2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
- 3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb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



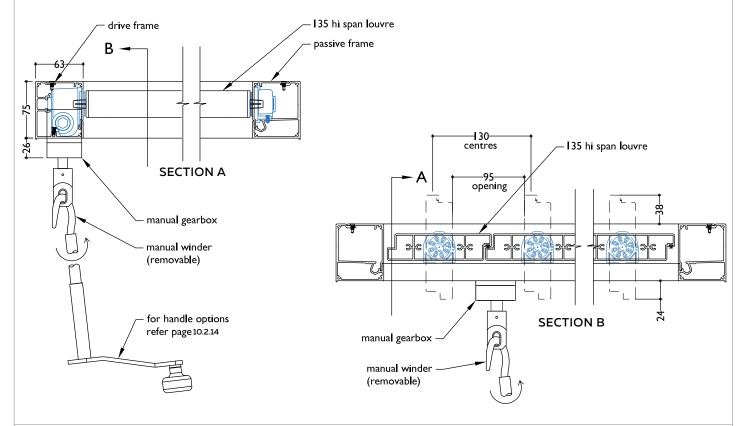


NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

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



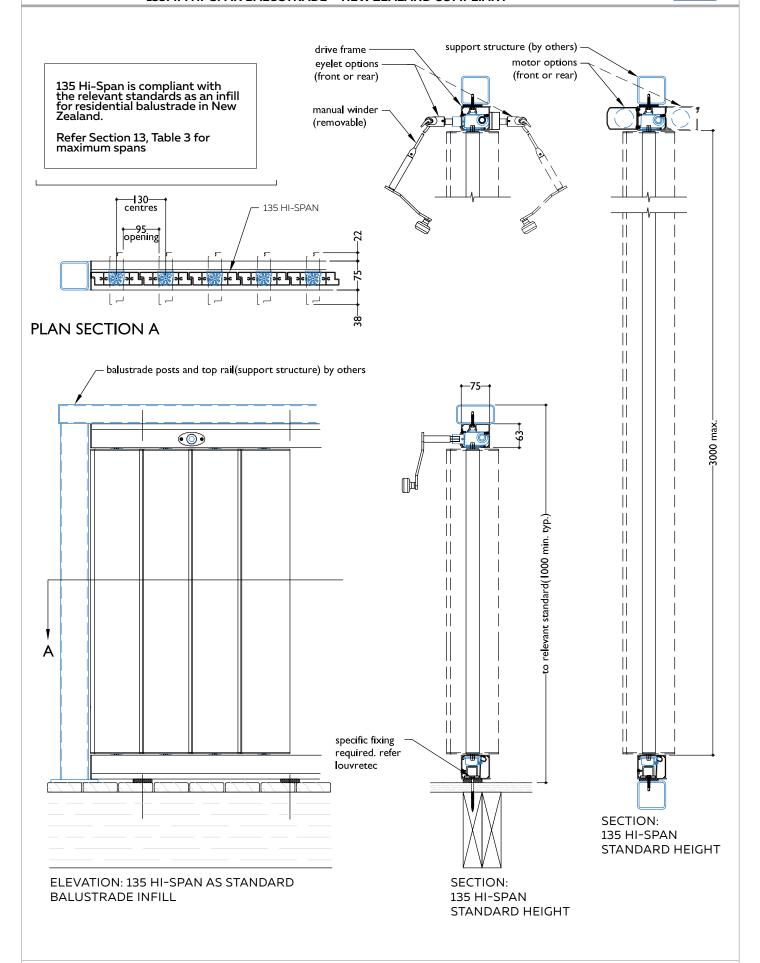
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.39

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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

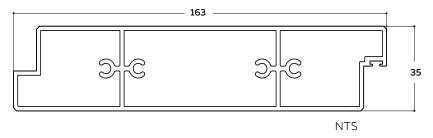
NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

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



REFER TECHNICAL DETAILS PAGE 10.2.42

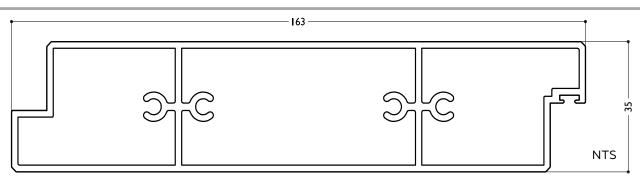


165MM HI-SPAN BALUSTRADE LOUVRE





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 syster	n 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.

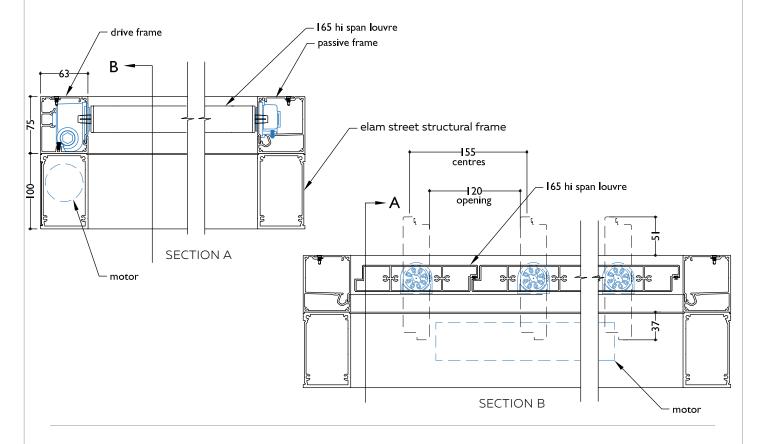
- 1. A barrier is required when someone could fall vertically 1m or more.
- 2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
- 3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb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



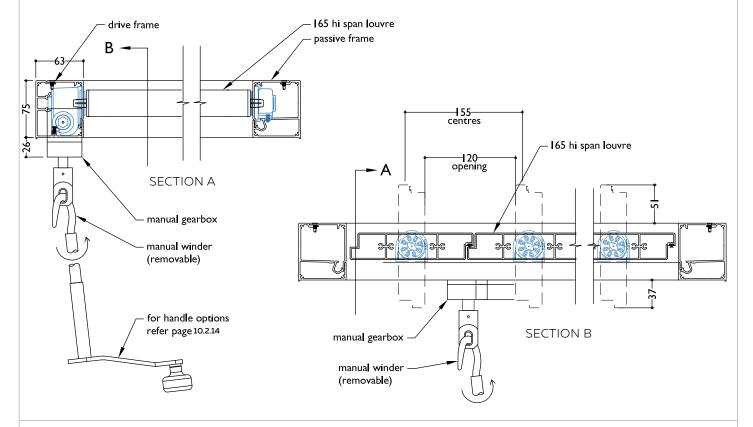


AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

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



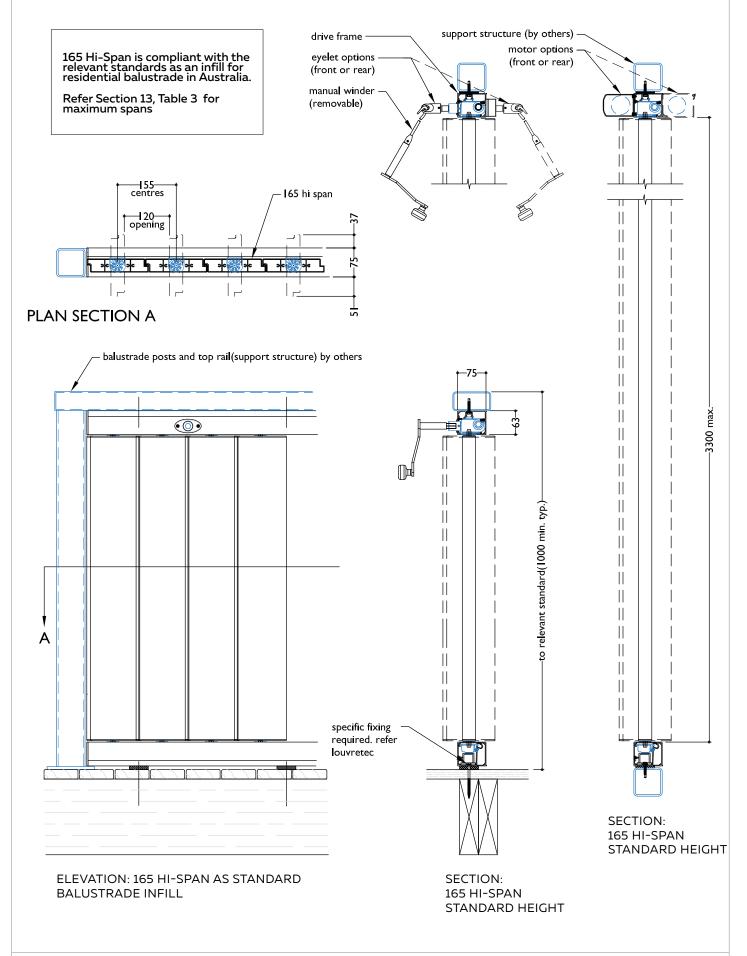
DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.43

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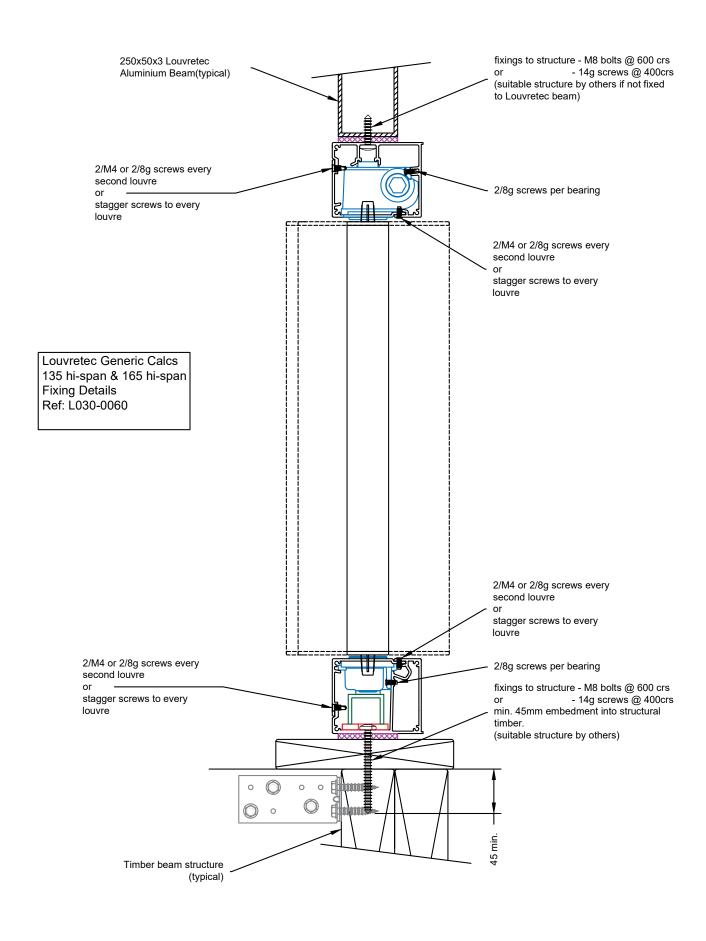
TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 165MM HI-SPAN BALUSTRADE LOUVRE - AUSTRALIAN COMPLIANT













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