



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



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

4. MOTORISED 200MM RECTANGULAR LOUVRES

OVERVIEW SPIRAL PIVOT MOTORISED OPTION FOR SUN 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

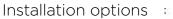
2025 sees over one million individual louvre blades worldwide pivoting with the Louvretec Spiral Drive system. Numbers that speak volumes regarding style, reliability & being totally fit for purpose.

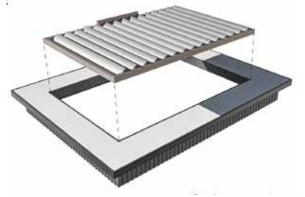


MOTORISED, VERTICAL SUN LOUVRES INCLUDING STRUCTURAL FRAME

APPLICATION OVERVIEW SPIRAL PIVOT MOTORISED OPTIONS FOR SUN LOUVRES

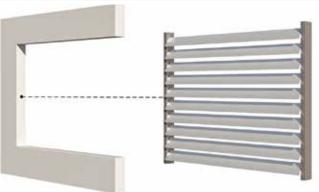
MOTORISED & HAND OPERABLE SPIRAL PIVOT SUN LOUVRE PANELS





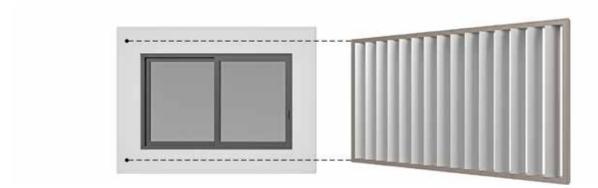
OVERHEAD FITTING INTO AN EXISTING OPENING

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.

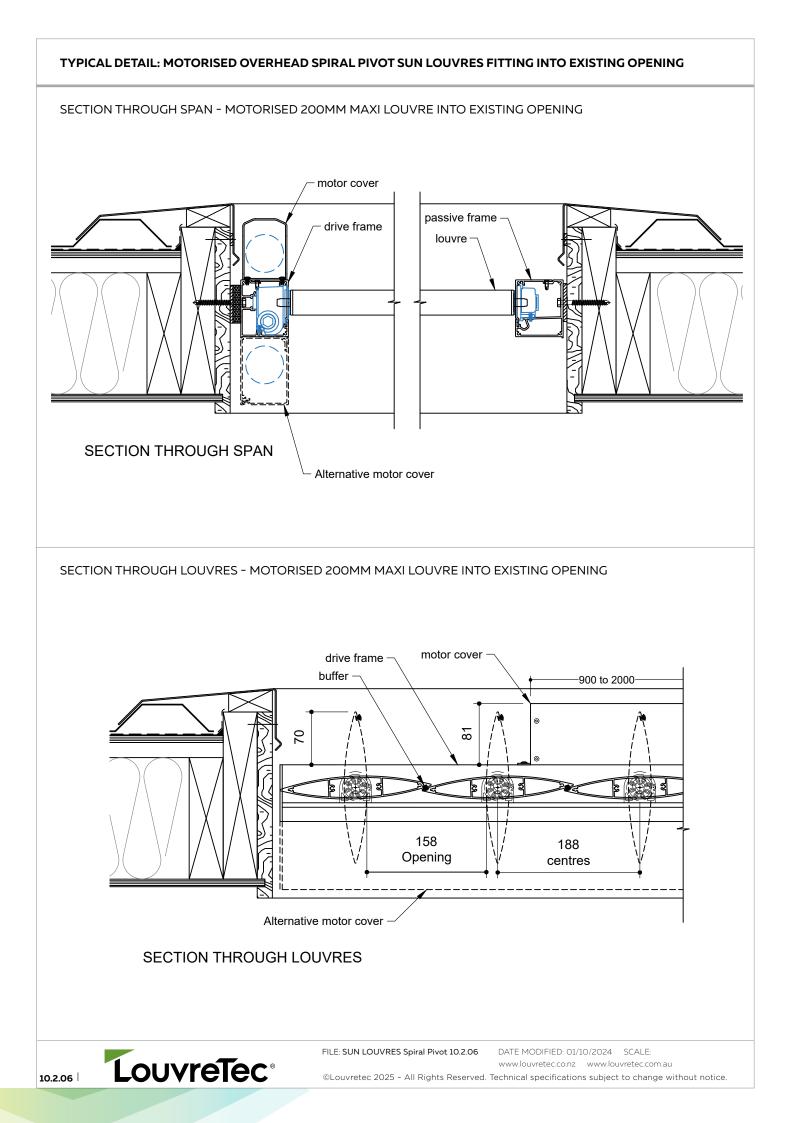


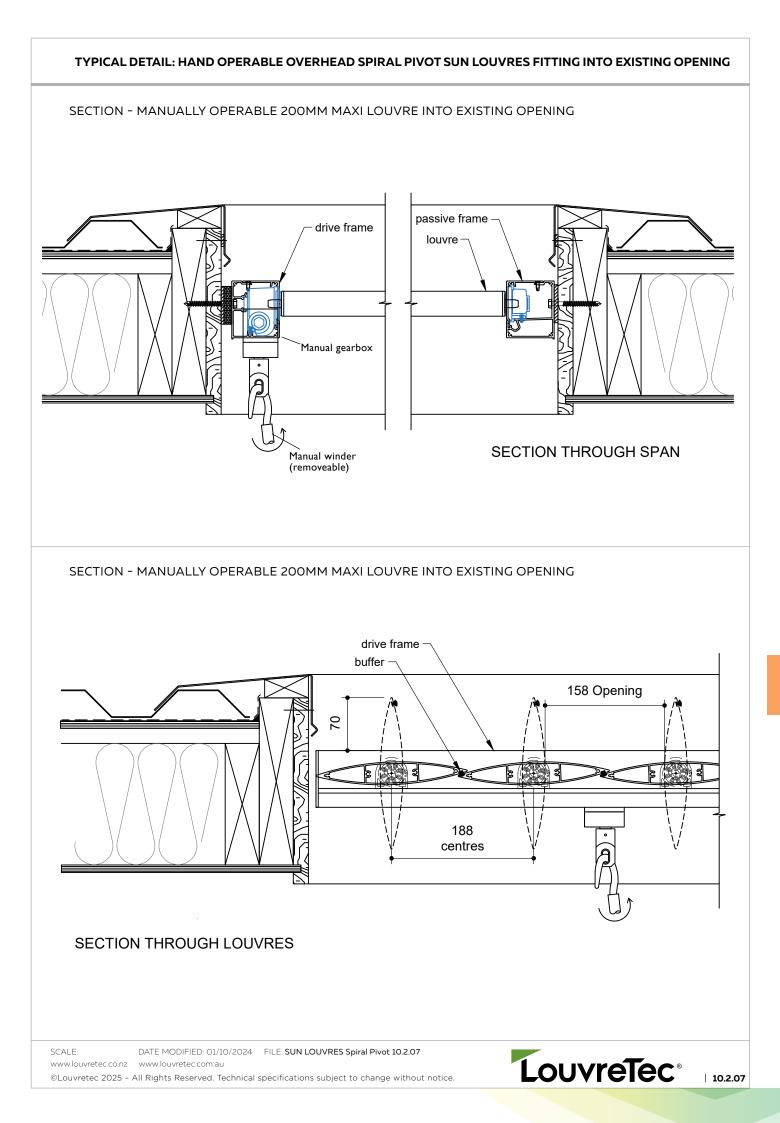
APPLICATION OVERVIEW OVERHEAD SUN LOUVRE PANELS FITTING INTO AN EXISTING OPENING

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. Somfy Motor End Frame within motor cover Drive Frame Drive Frame Passive Frame End Frame Passive Frame 1. FRAME TO FOUR SIDES - WRAP AROUND 2. TWO SIDED DRIVE & PASSIVE FRAME Drive and Pivot sides are connected with Passive End Frames. Frame is Two Sided only with Drive and Passive sides. Motorised: Two Options for Motor Location Somfy Motor Somfy Motor 1. MOTOR ON TOP - LOCATED WITHIN A MOTOR COVER 2. MOTOR DOWN-UNDER - LOCATED WITHIN A DOWN-UNDER FRAME Hand Operable Option 111

HAND OPERATED OPTION WITH GEARBOX & CRANK HANDLE

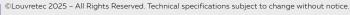






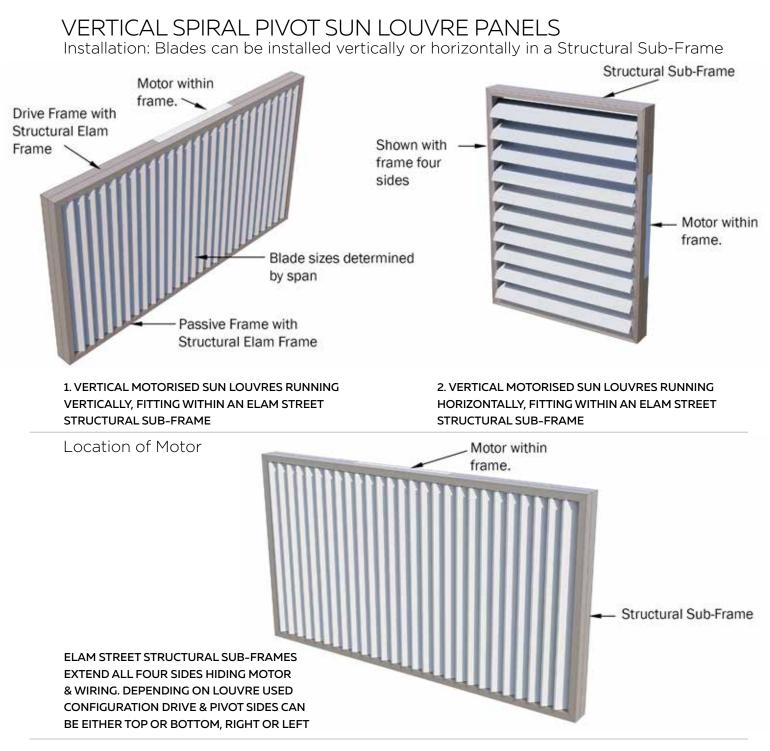
· A short or long eyelet is also available.





TYPICAL DETAIL: VERTICAL SUN LOUVRE PANELS FITTING INTO AN EXISTING OPENING INSERT HORIZONTAL LOUVRES - PLAN VIEW Down under frame with motor louvre drive frame passive frame Insert Horizontal Louvres INSERT VERTICAL LOUVRES - SECTION VIEW DRIVE, PASSIVE & DOWN UNDER FRAMES 6102 spiral cover angle down under frame with motor drive frame 6104 6105 spiral 63mm **Insert Vertical Louvres** spiral 63mm drive frame passive frame passive frame ٢I 6106 down under motor frame insert structural 6107 support (example) down under motor cover SCALE: DATE MODIFIED: 01/10/2024 FILE: SUN LOUVRES Spiral Pivot 10.2.09 LouvreTec www.louvretec.co.nz www.louvretec.com.au | 10.2.09 ©Louvretec 2025 - All Rights Reserved. Technical specifications subject to change without notice.

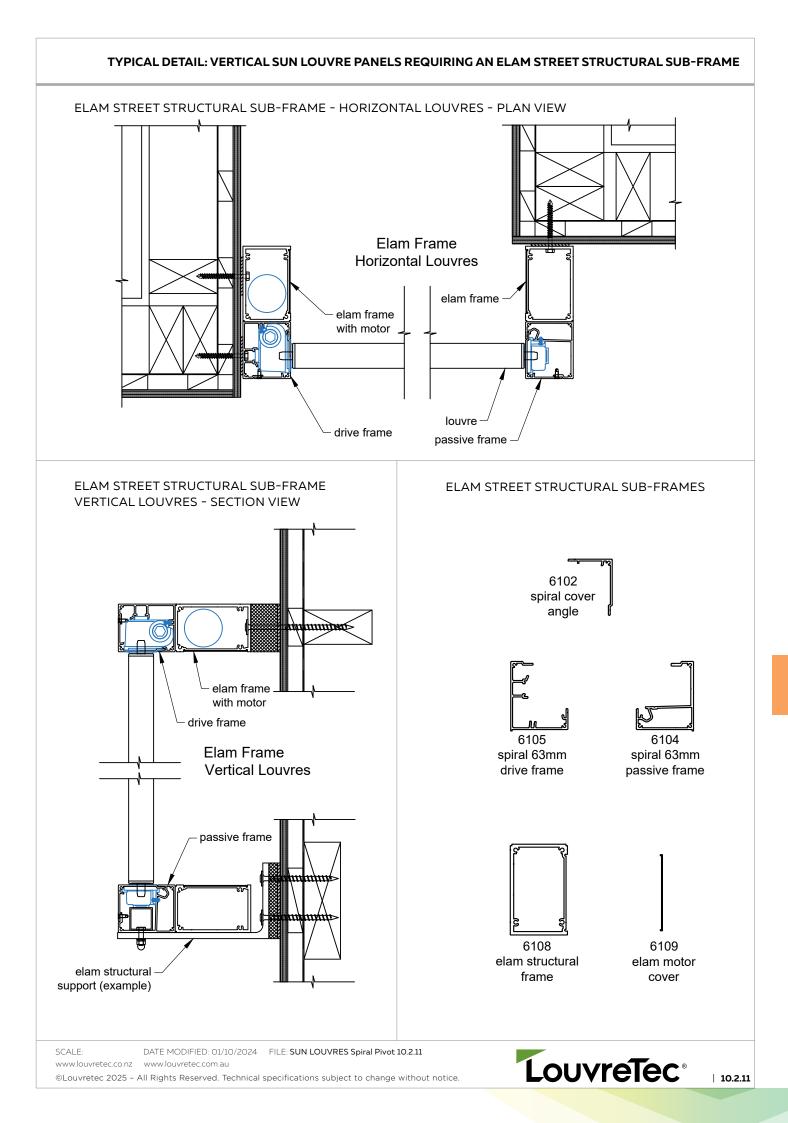
APPLICATION OVERVIEW VERTICAL SUN LOUVRE PANELS REQUIRING AN ELAM STREET STRUCTURAL SUB-FRAME



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.





APPLICATION OVERVIEW SPIRAL PIVOT INSERT PANEL FOR VERTICAL BALUSTRADES

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

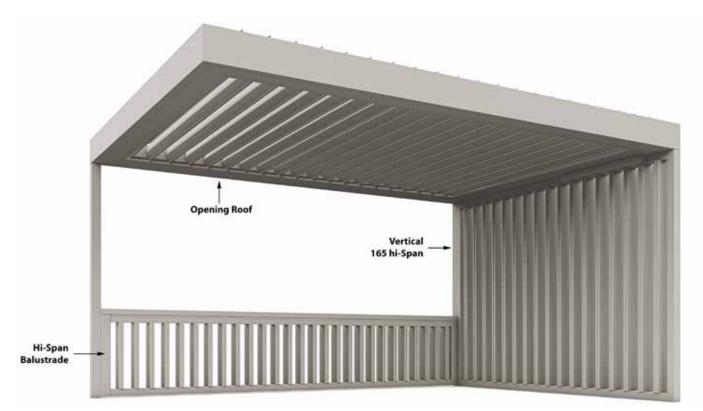
• The louvre is rated to be used as an infill panel only.

• 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

VERTICAL OR OVERHEAD PANELS

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.

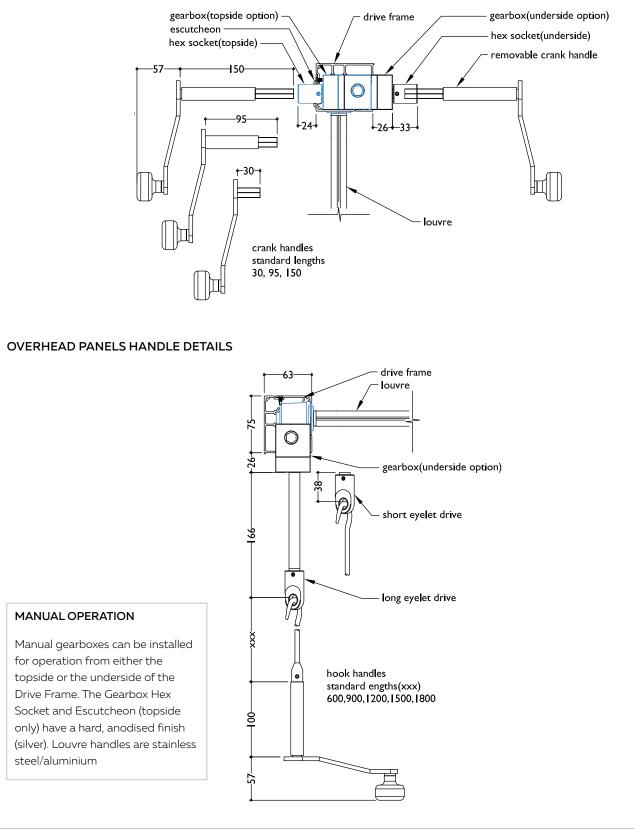


200MM MAXI LOUVRE RAKING PANEL. MOTORISED BY SPIRAL PIVOT SYSTEM

SPIRAL PIVOT DRIVE SYSTEM

Manually operated Spiral Pivot with Pivot Handle

VERTICAL PANELS HANDLE DETAILS





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

10.2.14

LouvreTec

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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

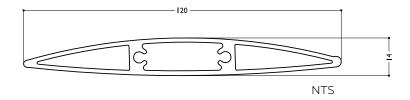
IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER. WE'RE FOCUSED TO MEETING YOUR NEEDS WITH TAILORED SOLUTIONS.

SPIRAL PIVOT APPLICATION	LOUVRE	MAXIMUM SPANS
	120 AIRFOIL LOUVRE	
MOTORISED	180 AIRFOIL LOUVRE	
& HAND	150 MIDI LOUVRE	
OPERABLE INSERT	200 MAXI LOUVRE	2350MM
PANELS	120 FLUSH MINI LOUVRE	
	180 FLUSH MIDI LOUVRE	2250MM
	200 FLUSH MAXI LOUVRE	2250MM
RAKING	200 MAXI LOUVRE	2350MM
PANELS	200 FLUSH MAXI LOUVRE	2250MM
BALUSTRADES	135 HI SPAN BALUSTRADE	3000MM
DALUSTRADLS	165 HI SPAN BALUSTRADE	3300MM

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



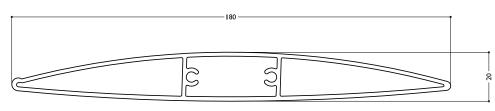


120MM AIRFOIL LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.18

180MM AIRFOIL LOUVRE

Solution for wider openings



NTS

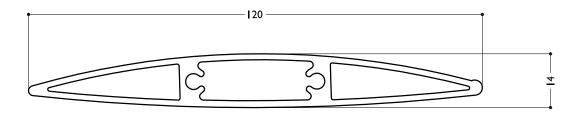


180MM AIRFOIL LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.20



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 syster	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.

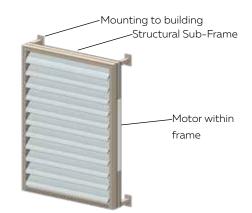
WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2400	2300	2100	1850	1700	1600

INSTALLATION OPTIONS



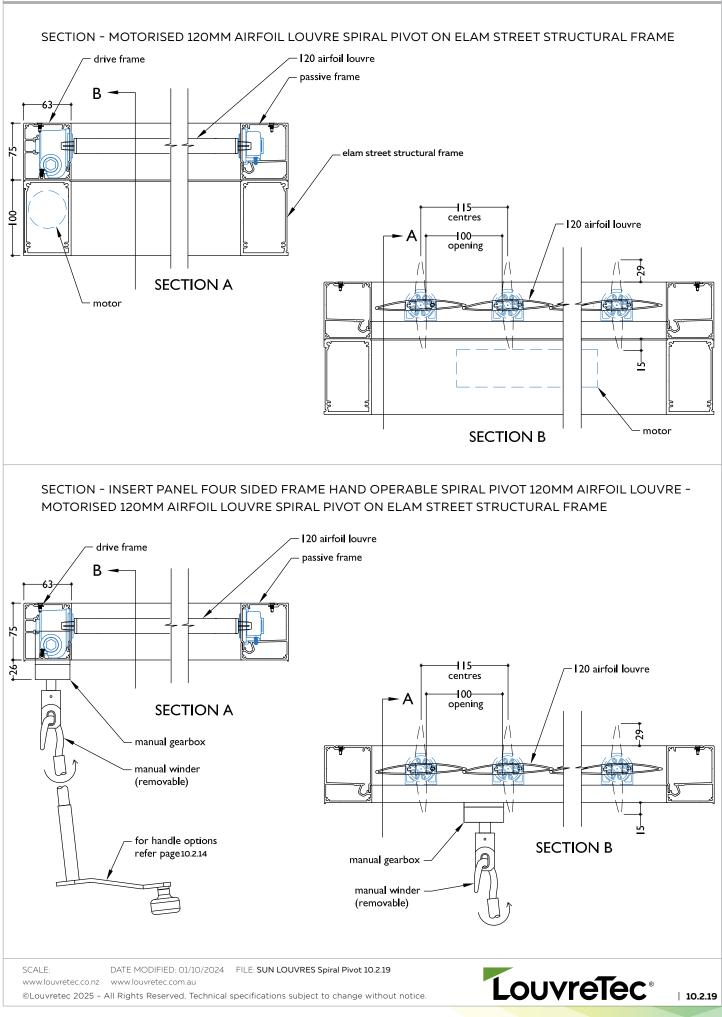
SPIRAL PIVOT SYSTEM: CALCULATE **OPTIMUM FRAME OPENING SIZES** Width: Check engineering limits Height: Calculation example showing 17 blades

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



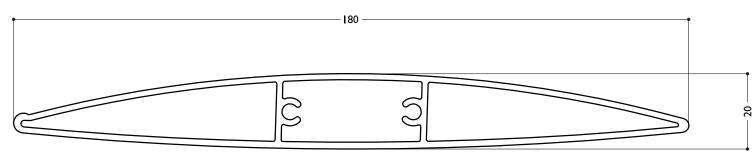
ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HORIZONTAL BLADES







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 syster	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

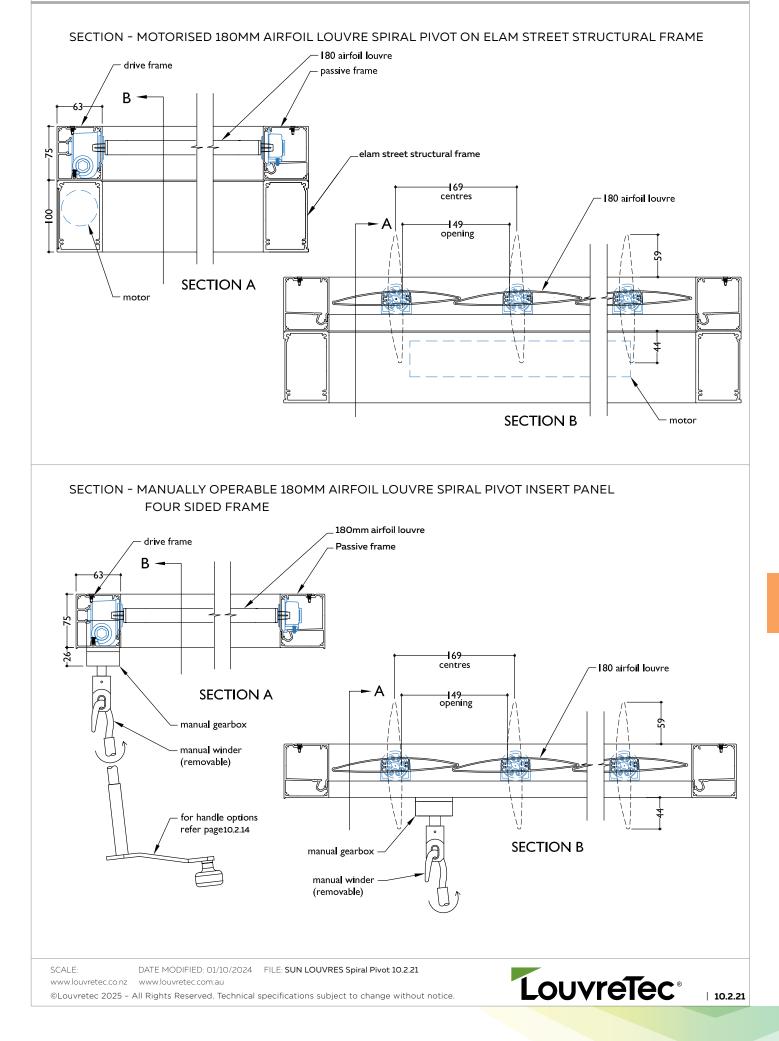
STEP 1 16 blades x 169 2704 1 blade at 180 180 17 blades =2884 STEP 2 Blade cover 2884 + top and bottom closing angles allow for 5mm + 5mm 10 Total exact opening height =2894*

*This is inside measure - not outer frame size



ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HAND OPERABLE HORIZONTAL BLADES

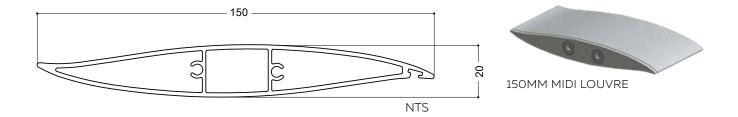




APPLICATION OVERVIEW MOTORISED & HAND OPERABLE SPIRAL PIVOT AIRFOIL LOUVRES

150MM MIDI LOUVRE

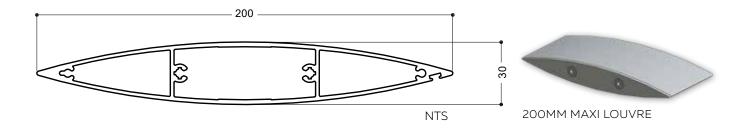
Wave shaped louvre



REFER TECHNICAL DETAILS PAGES 10.2.23

200MM MAXI LOUVRE

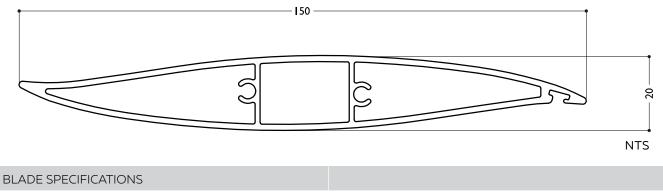
Most specified Maxi Louvre



REFER TECHNICAL DETAILS PAGES 10.2.25



BLADE SPECIFICATIONS 150MM MIDI LOUVRE



Blade 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

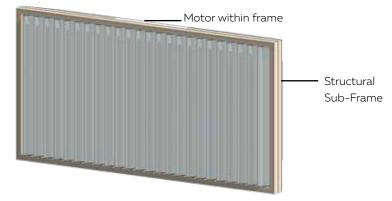
INSTALLATION OPTIONS



SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES Width: Check engineering limits

Height: Calculation example showing 17 blades

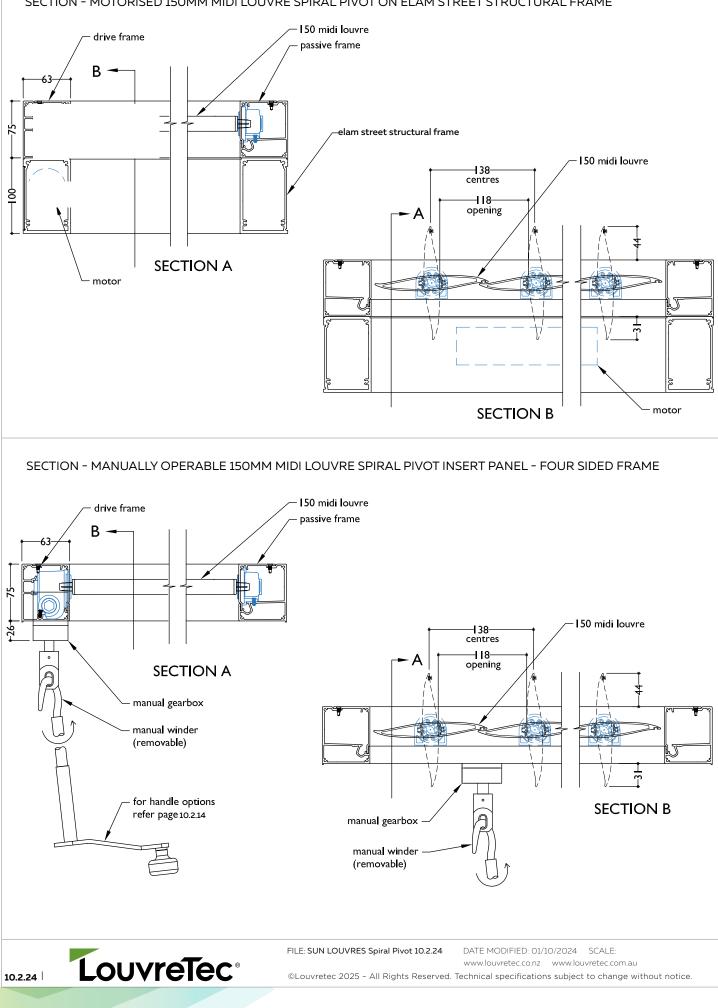
STEP 1					
16 blades x 138	2208				
1 blade at 150	150				
17 blades	=2358				
STEP 2					
Blade cover	2358				
+ top and bottom closing					
angles allow for					
5mm + 5mm	10				
Total exact opening height =2368*					
*This is inside measure - not out	er frame size				



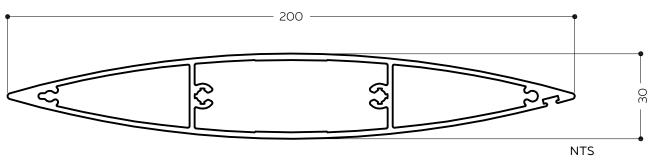
ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME VERTICAL PANEL - VERTICAL BLADES

TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 150MM MIDI LOUVRE

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



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 sy	/stem 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

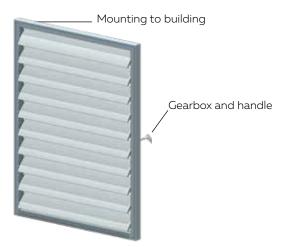
Width: Check engineering limits Height: Calculation example showing 17 blades

STEP 1

16 blades x 188	3008
1 blade at 200	200
17 blades	=3208

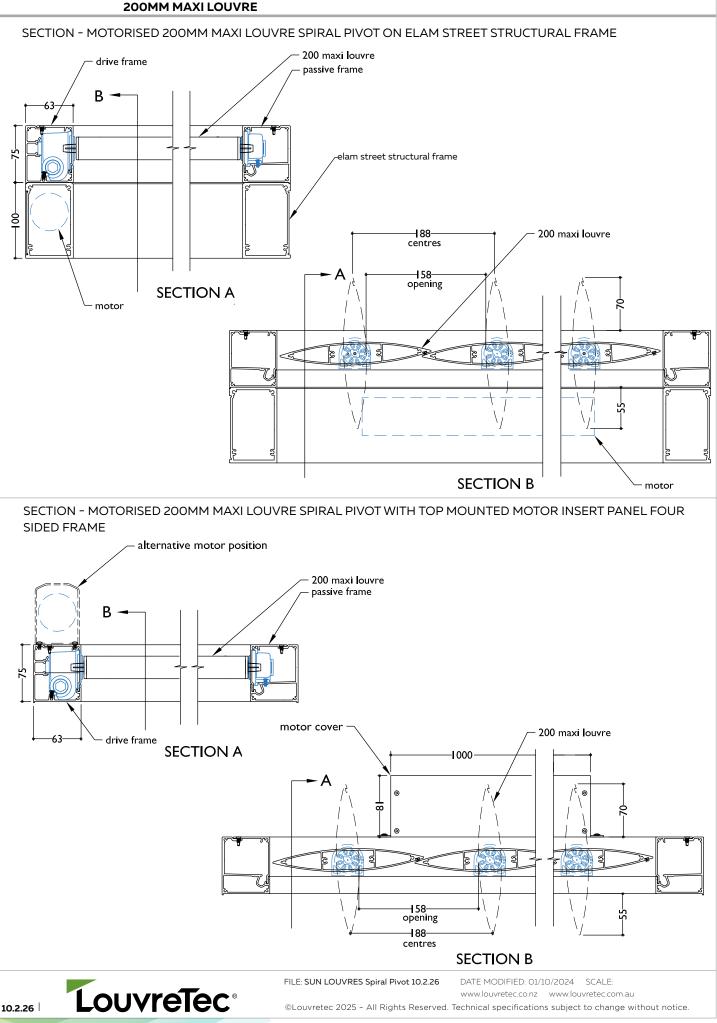
STEP 2

Blade cover	
+ top and bottom closing	
angles allow for	
5mm + 5mm	10
Total exact opening height	=3218*
*This is inside measure - not oute	er frame size

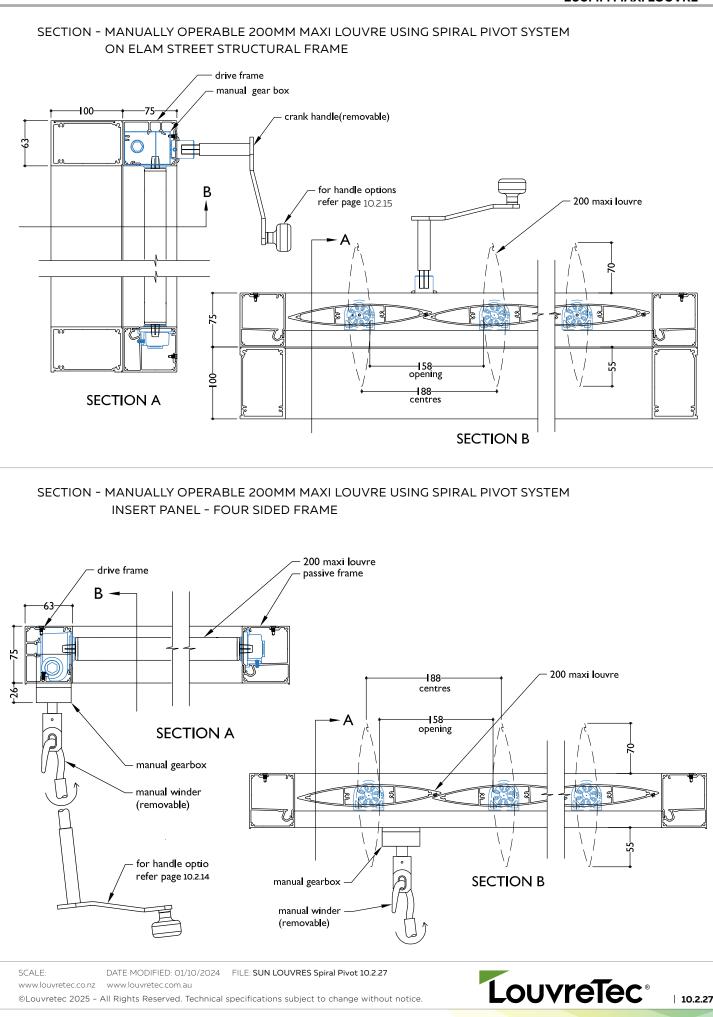


ELAM STREET STRUCTURAL FRAME VERTICAL PANEL - HAND OPERABLE HORIZONTAL BLADES

TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 200MM MAXI LOUVRE



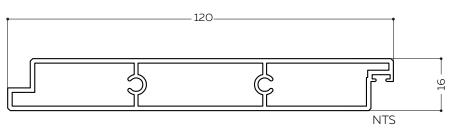
TYPICAL DETAIL: HAND OPERABLE SPIRAL PIVOT SYSTEM 200MM MAXI LOUVRE



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



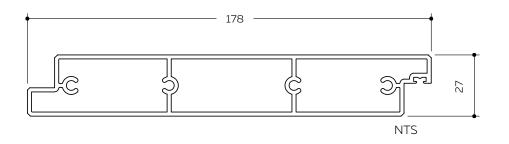


120MM FLUSH MINI LOUVRE CENTRE PIVOT

REFER TECHNICAL DETAILS PAGES 10.2.29

180MM FLUSH MIDI

Wall Panel / Sun Louvre / Balustrade



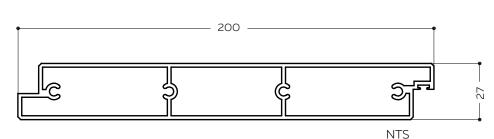


180MM FLUSH MIDI LOUVRE CENTRE PIVOT

REFER TECHNICAL DETAILS PAGES 10.2.31

200MM FLUSH MAXI

Wall Panel / Sun Louvre / Balustrade





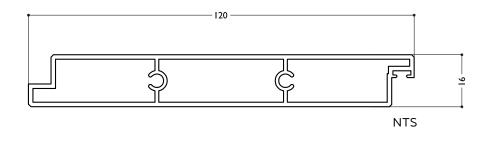


REFER TECHNICAL DETAILS PAGES 10.2.33





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

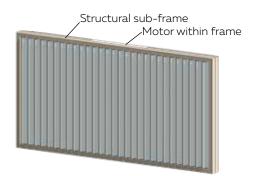
INSTALLATION OPTIONS



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 out	er 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

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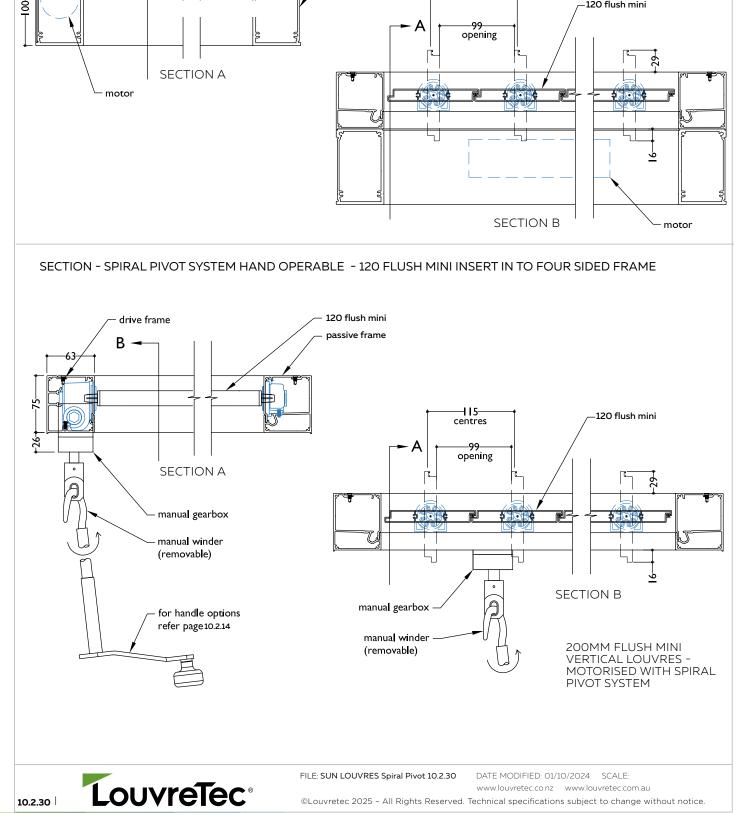
R



elam street structural frame

-115centres

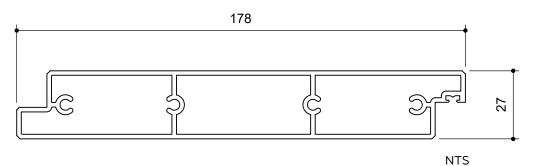
120 flush mini



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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 syste	m 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

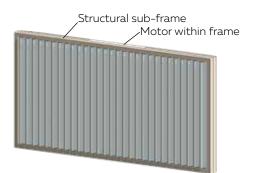
INSTALLATION OPTIONS



SPIRAL PIVOT SYSTEM: CALCULATE OPTIMUM FRAME OPENING SIZES

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

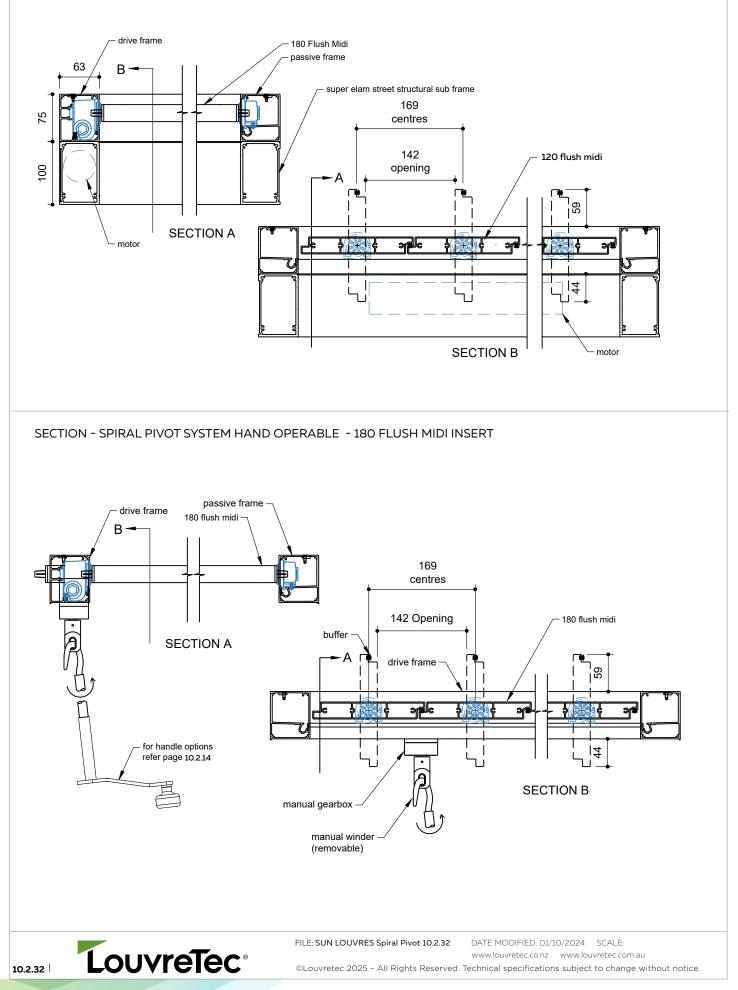
STEP 1	
16 blades x 169	2704
1 blade at 178	178
17 blades	=2882
STEP 2	
Blade cover	2882
+ top and bottom closing	
angles allow for	
5mm + 5mm	10
Total exact opening height =	2892*
*This is inside measure - not outer	frame size



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

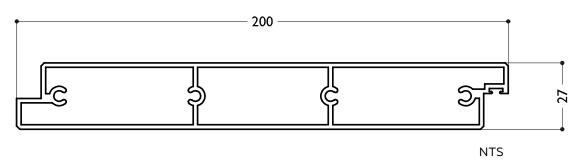
TYPICAL DETAIL: SPIRAL PIVOT SYSTEM 180MM FLUSH MIDI - ELAM STREET STRUCTURAL FRAME

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





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 syster	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 3272 Blade cover + top and bottom closing angles allow for 5mm + 5mm 10 Total exact opening height = 3282* *This is inside measure - not outer frame size

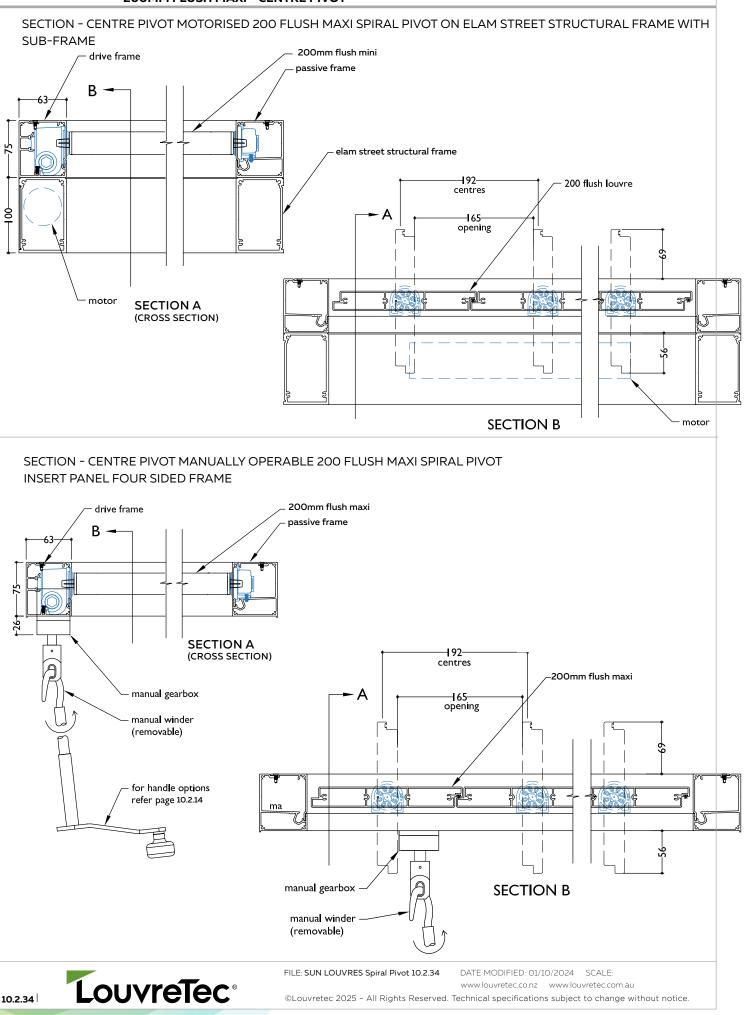


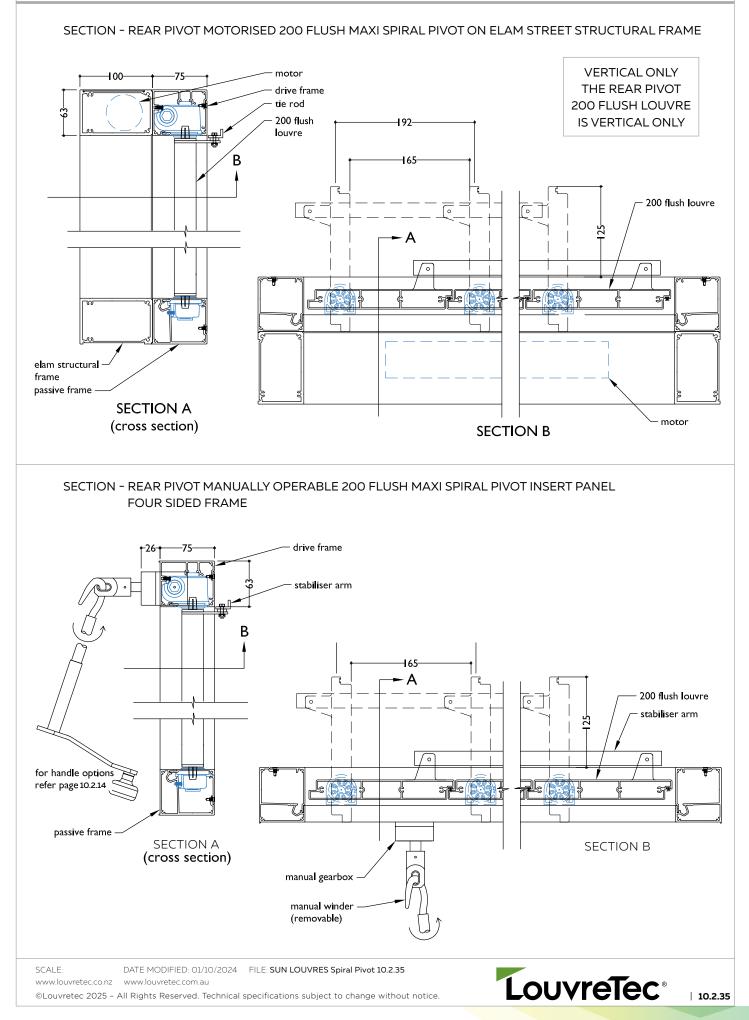
200 FLUSH MAXI - CENTRE PIVOT



200 FLUSH MAXI - REAR PIVOT

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



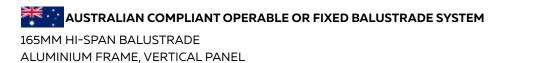


SUN LOUVRES SPIRAL PIVOT MOTORISED, HAND OPERABLE OR END FIXED BALUSTRADE Compatible Louvres: 135mm Hi-Span, 165mm Hi-Span

DRIVE SYSTEM: SPIRAL PIVOT

Operable or End Fixed Balustrade Systems











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

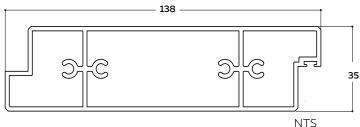
NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

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



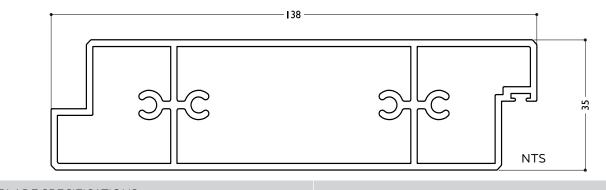




135MM HI-SPAN BALUSTRADE LOUVRE



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	n 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

2080				
138				
=2218				
2218				
10				
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.

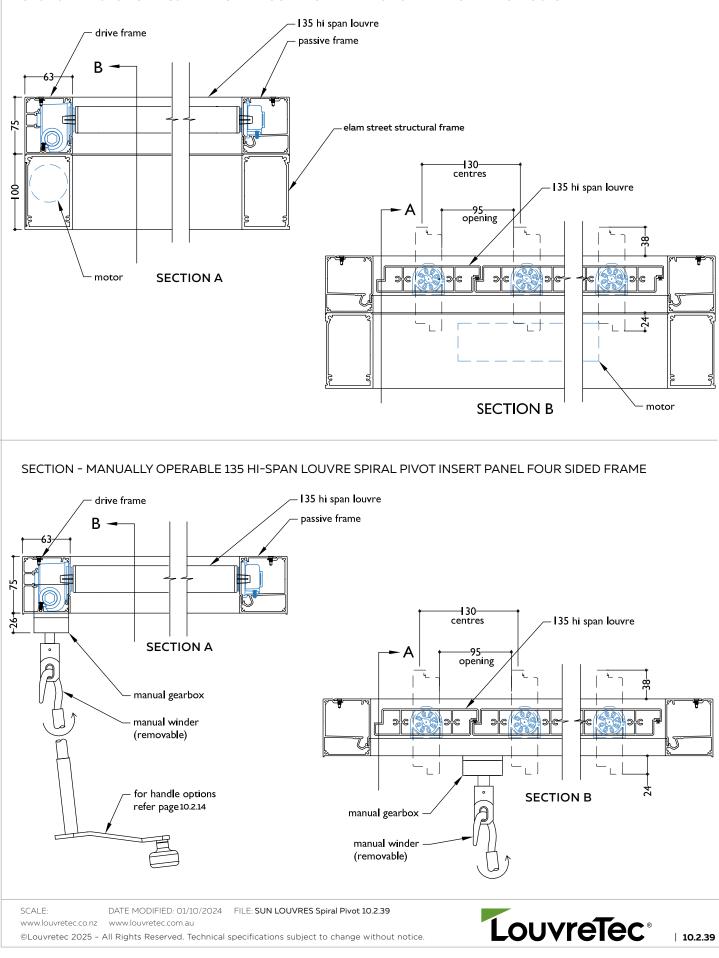
- 1. A barrier is required when someone could fall vertically 1m or more.
- 2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
- 3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb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



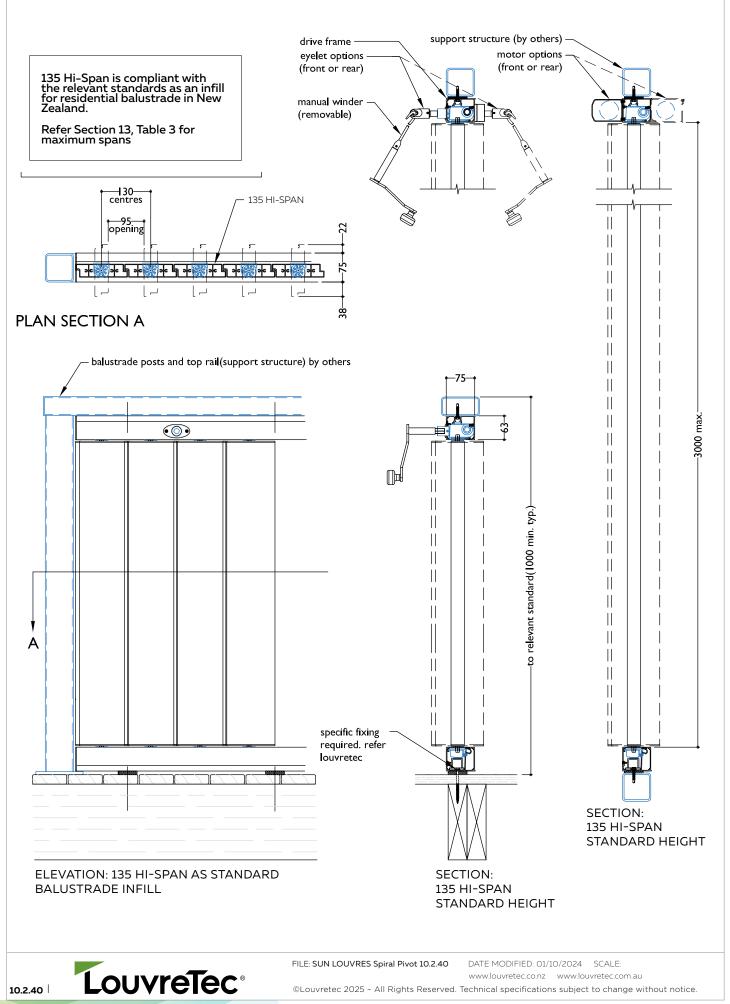


NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

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









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.

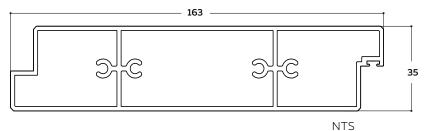
3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over the balustrade or fall through.

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



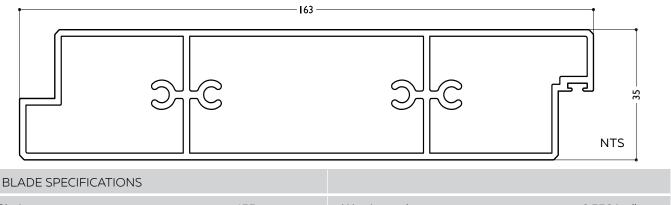
REFER TECHNICAL DETAILS PAGE 10.2.42



165MM HI-SPAN BALUSTRADE LOUVRE



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



Blade 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 155	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

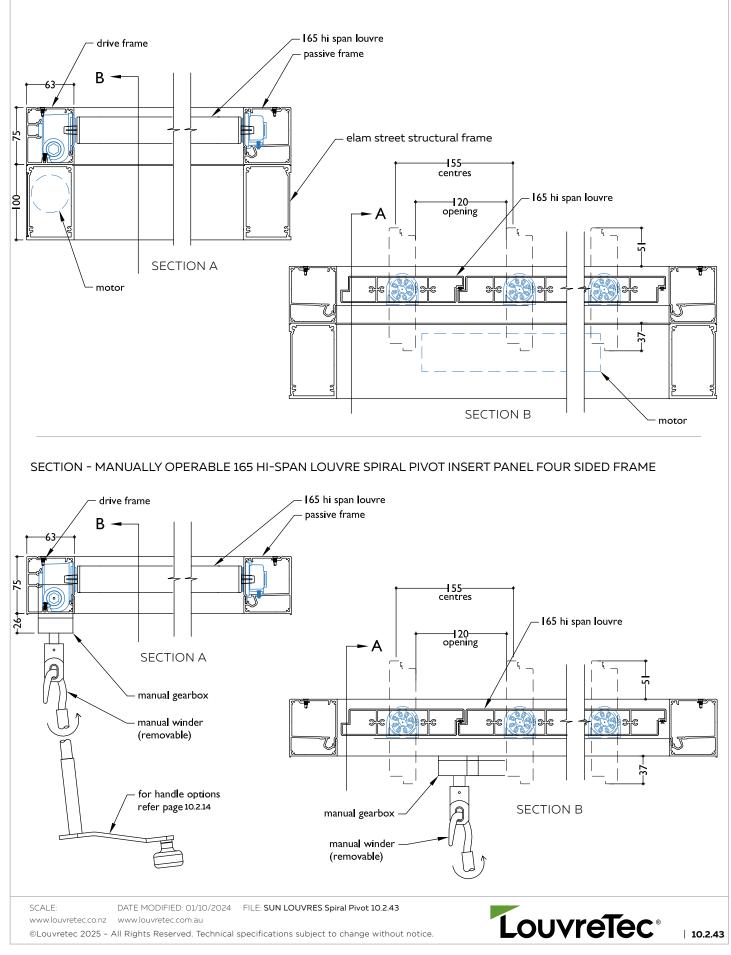
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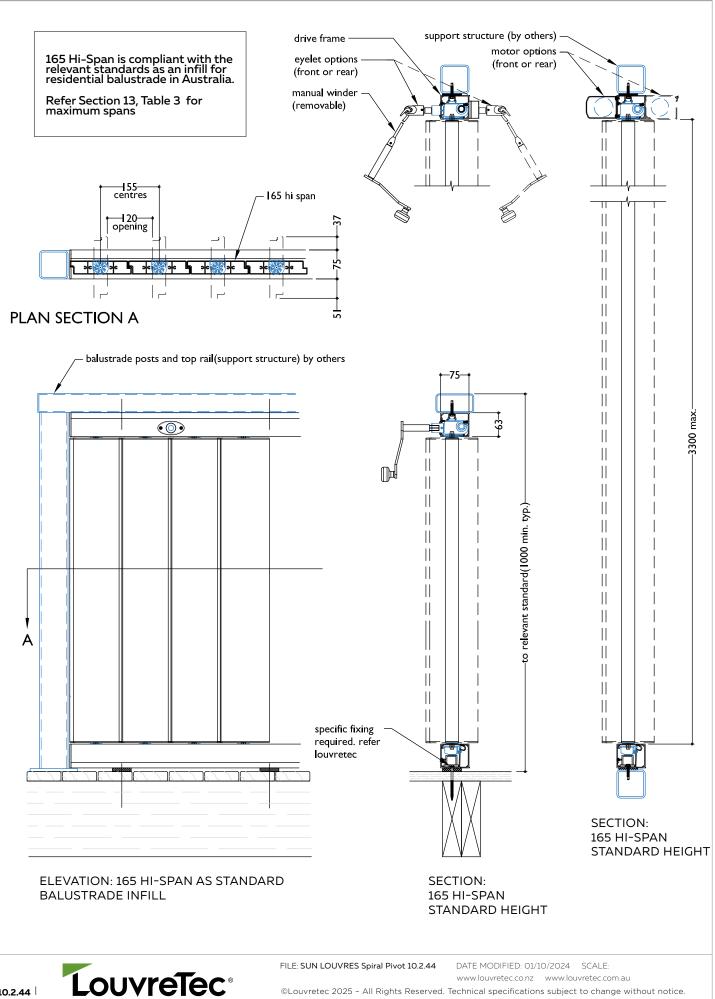


AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

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



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



10.2.44

