

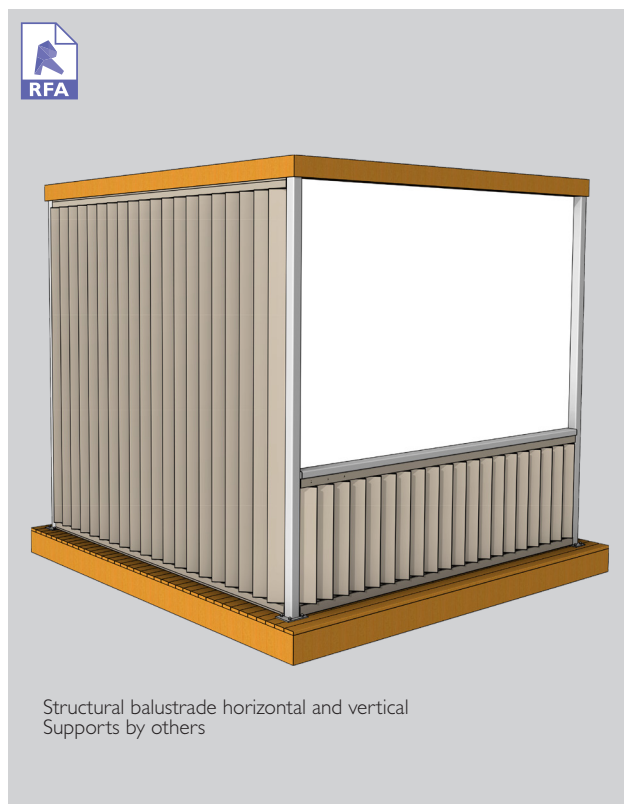


165MM HI-SPAN BALUSTRADE LOUVRES

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.



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

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.

SURFACE COATINGS

A wide range of options are available.



ANODISED



WOOD FINISH



POWDERCOATED

OPERATING YOUR OPENING ROOF - THE CHOICE IS YOUR

Fixed options



Operable systems

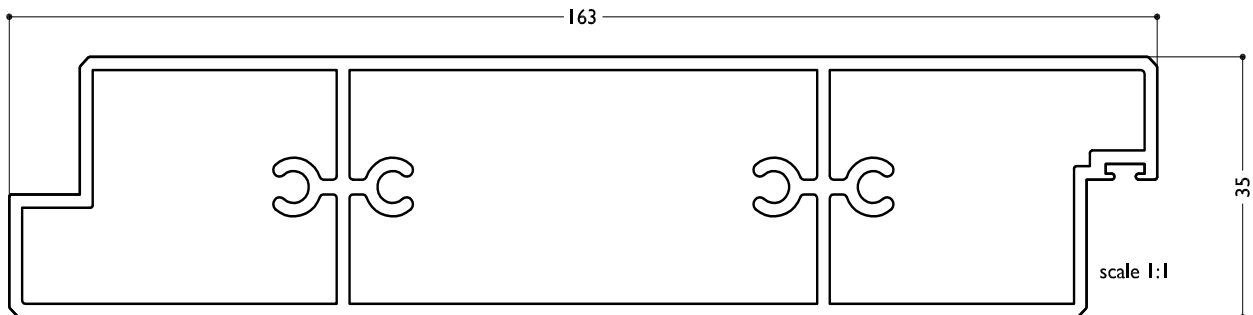


LOUVRETEC
GEARBOX



HOME MOTION by
somfy

MOTORS AND SENSORS

**TECHNICAL DETAILS** 165MM HI-SPAN BALUSTRADE LOUVRES (NOTE ACTUAL WIDTH 163MM)

BLADE SPECIFICATIONS			
Blade cover - opening system	155 mm	Weight per lineal metre	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 NB 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		32m/s 115km/hr	37m/s 133km/hr	44m/s 158km/hr	50m/s 179km/hr	55m/s 198km/hr
Ultimate limit state loads (kPa)		+0.92 & -1.15	+1.23 & -1.53	+1.74 & -2.17	+2.24 & -2.80	+2.71 & -3.39
Adjustable and Fixed Vertical and Horizontal	4950	4500	4500	4200	3800	3500
Spans for Balustrades	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
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+ top and bottom closing

angles allow for

5mm + 5mm	10
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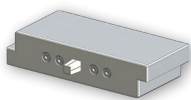
Total exact opening height =2655*

*This is inside measure - not outer frame size.

**END FIXED**

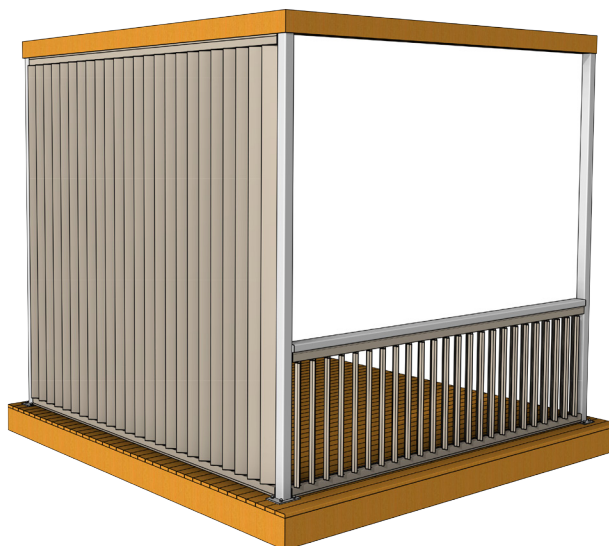
Louvres at any pitch

Louvres at any centre



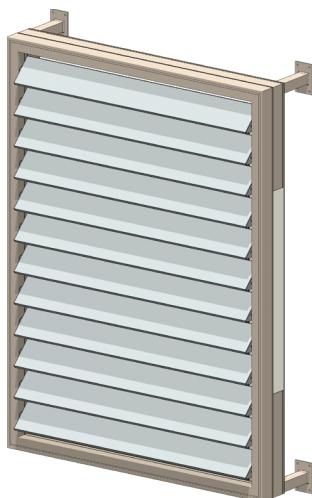
PRODUCT DETAILS 135MM AND 165MM HI-SPAN BALUSTRADE LOUVRES

TYPICAL DETAIL 3D MODELS 135MM HI-SPAN BALUSTRADE LOUVRE - SPIRAL PIVOT HAND OPERABLE

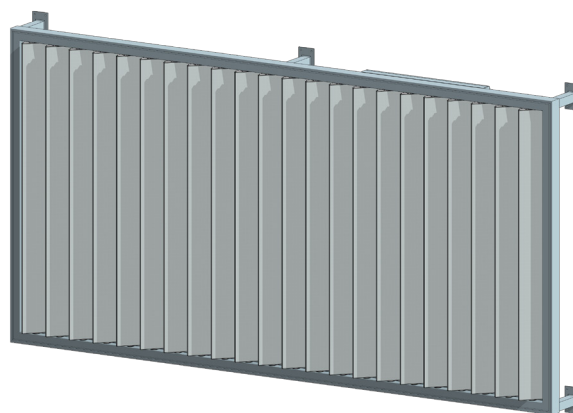


135mm Hi-span balustrade - full height and balustrade height operable Spiral Pivot panel. Structural balustrade horizontal and vertical. Supports done by others.

TYPICAL DETAIL 3D MODELS 165MM HI-SPAN BALUSTRADE LOUVRE - SPIRAL PIVOT MOTORISED



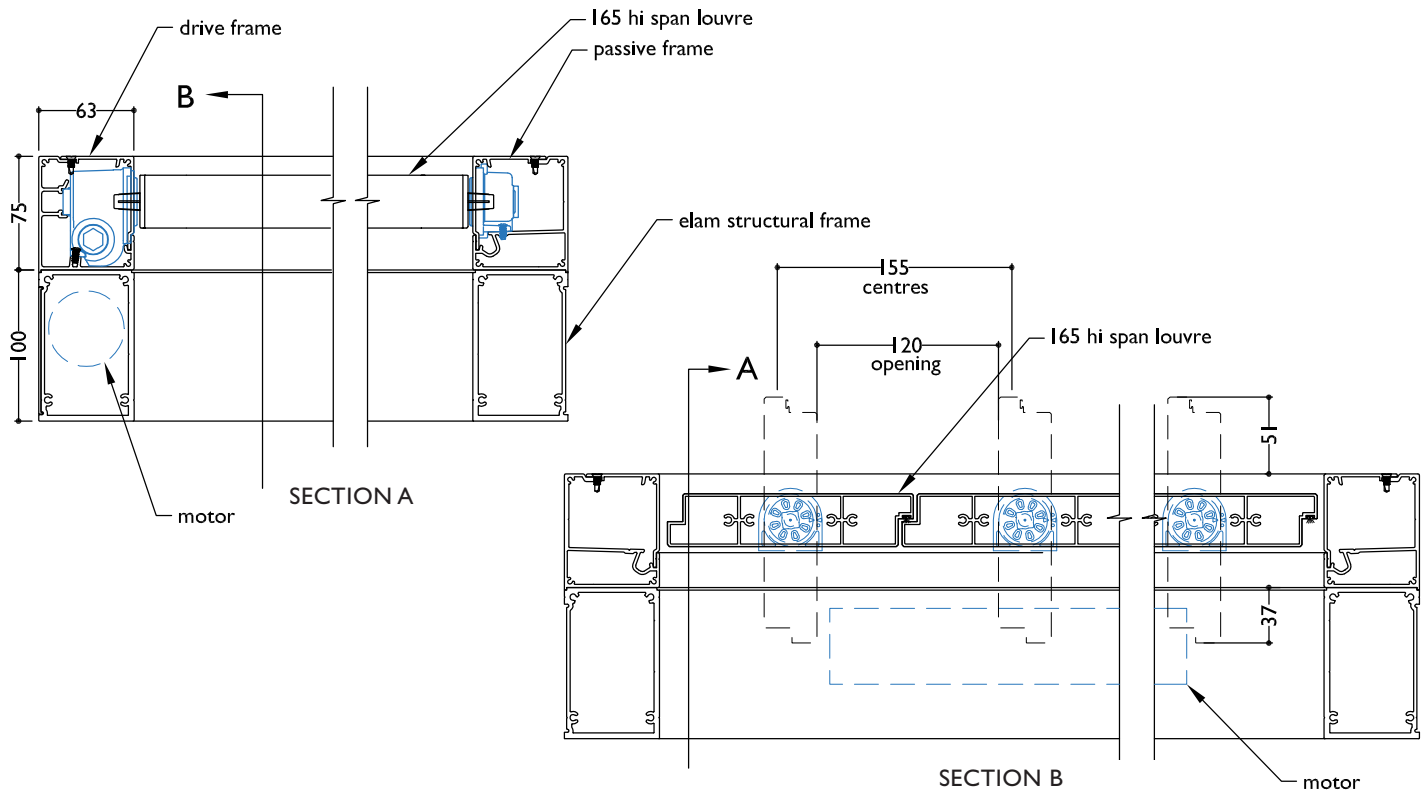
Super Elam Street structural frame with sub-frame vertical panel - horizontal louvres



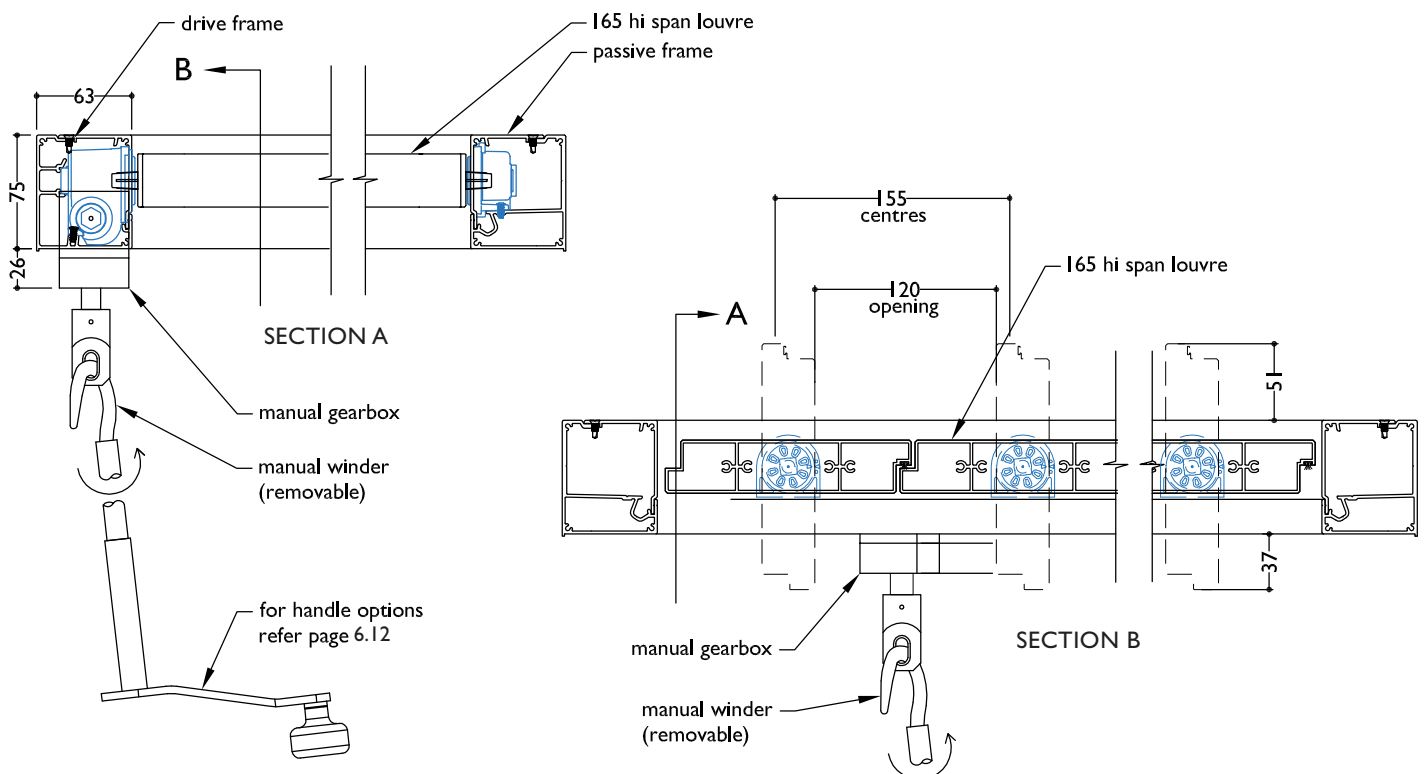
Elam Street vertical panel - vertical blades

TYPICAL DETAIL : 165MM HI-SPAN BALUSTRADE LOUVRE

SECTION - MOTORISED 165 HI-SPAN LOUVRE SPIRAL PIVOT ON SUPER ELAM STREET STRUCTURAL FRAME WITH SUB-FRAME



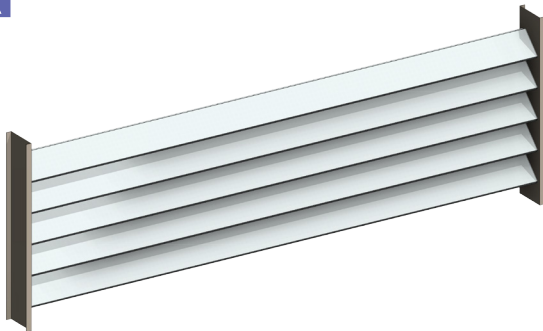
SECTION - MANUALLY OPERABLE 165 HI-SPAN LOUVRE SPIRAL PIVOT



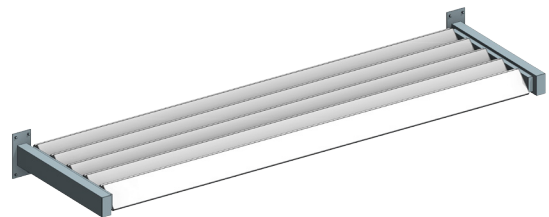


TECHNICAL DETAILS 135MM AND 165MM HI-SPAN BALUSTRADE LOUVRES

TYPICAL DETAIL 3D MODELS 135MM HI-SPAN BALUSTRADE LOUVRES - END FIXED

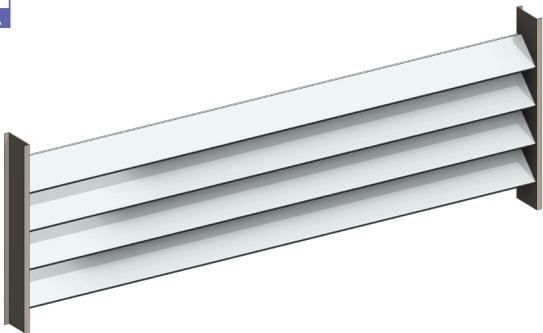


135mm Hi Span louvres - end fixed vertical panel

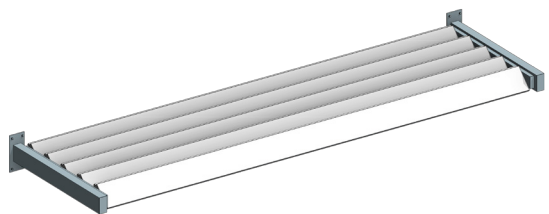


135mm Hi Span louvres - end fixed overhead panel

TYPICAL DETAIL BIM 165MM HI-SPAN BALUSTRADE LOUVRES - END FIXED



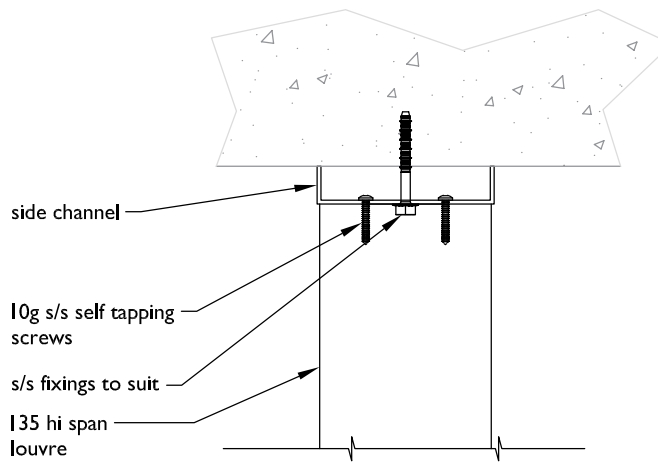
165mm Hi-Span louvre end fixed vertical panel



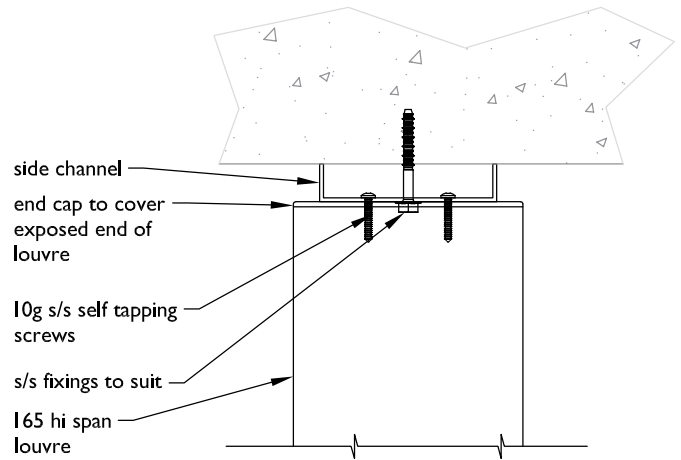
165mm Hi-Span louvres end fixed overhead panel

TYPICAL DETAIL : 135MM AND 165MM HI-SPAN BALUSTRADE LOUVRES END FIXED

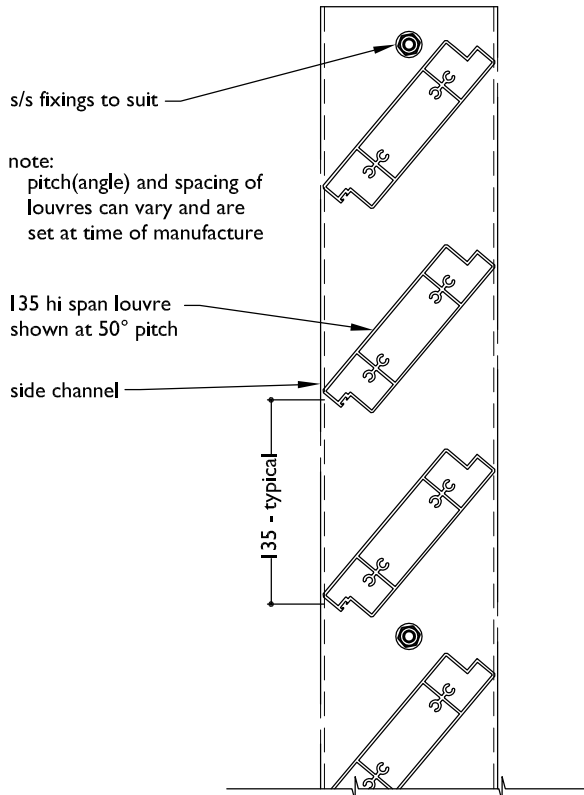
PLAN - END FIXED
135 HI SPAN LOUVRE



PLAN - END FIXED
165 HI SPAN LOUVRE



SECTION - END FIXED
135 HI SPAN LOUVRE



SECTION - END FIXED
165 HI SPAN LOUVRE

