



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



165MM HI-SPAN LOUVRES AS BALUSTRADE

## 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.

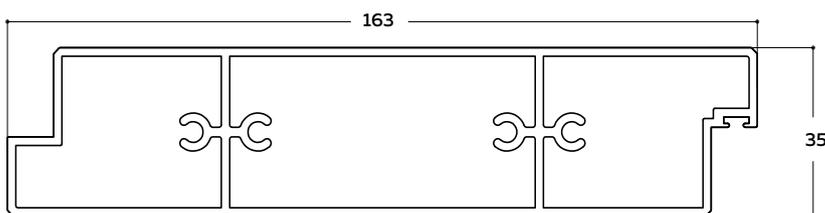
1. A barrier is required when someone could fall vertically 1m or more.
2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over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



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

## 165MM HI-SPAN BALUSTRADE LOUVRES

### Operable Balustrades



REFER TECHNICAL DETAILS PAGE 10.2.42

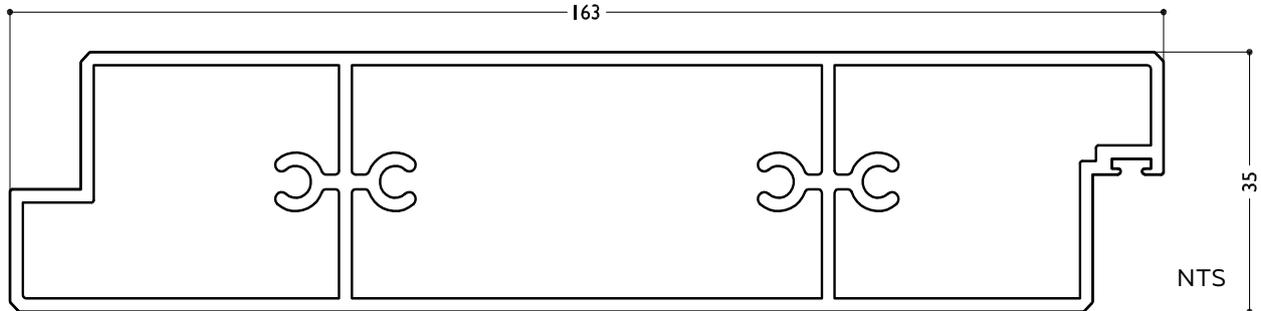


165MM HI-SPAN BALUSTRADE LOUVRE

## SUN LOUVRES SPIRAL PIVOT



### 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

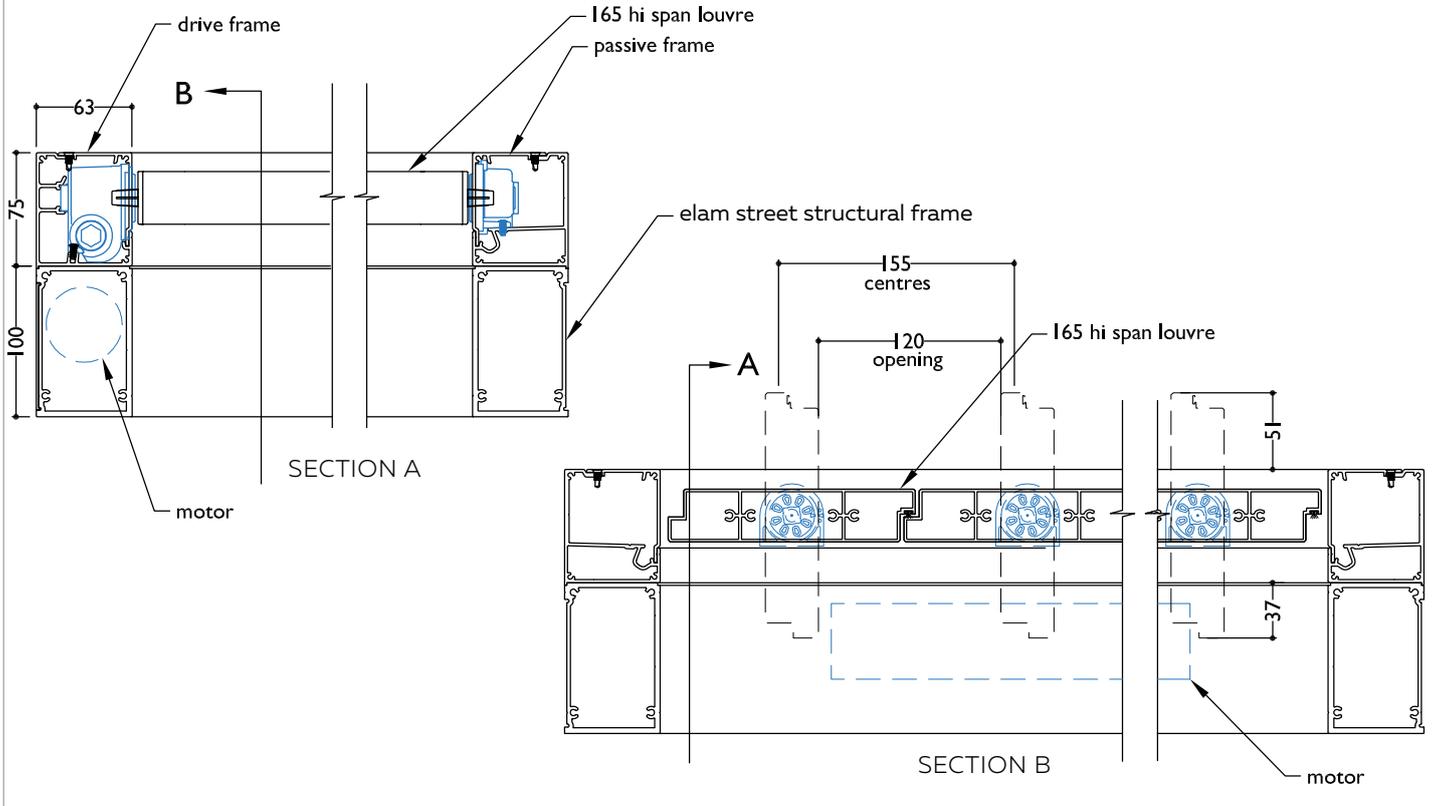
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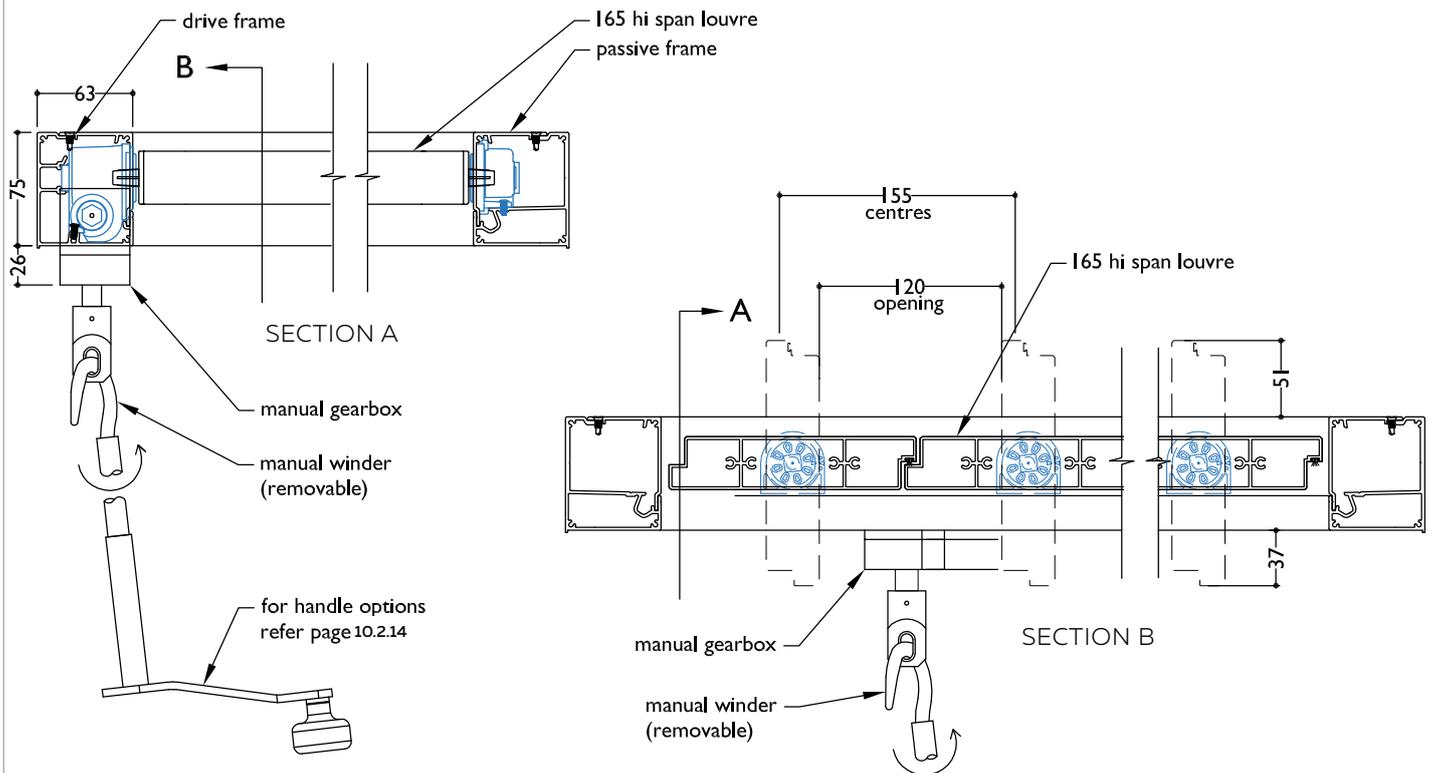


AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

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



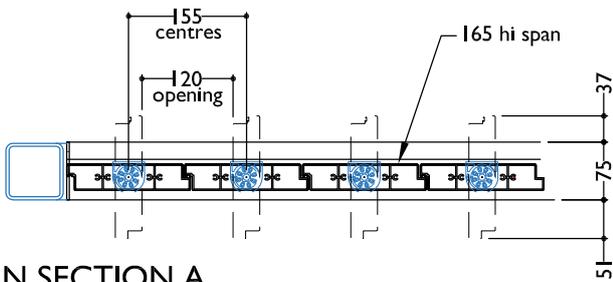
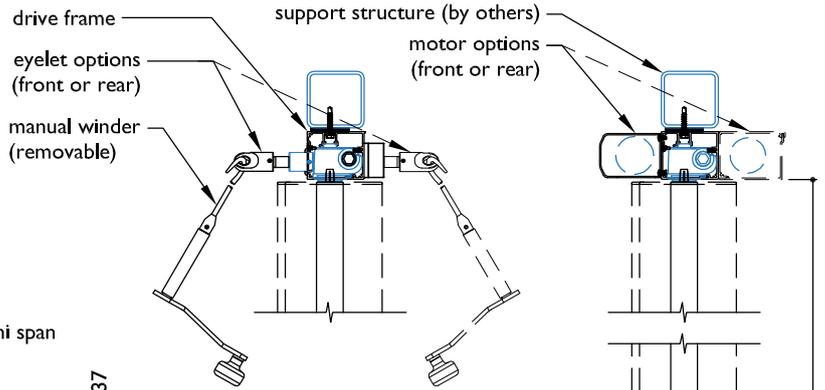
SECTION - MANUALLY OPERABLE 165 HI-SPAN LOUVRE SPIRAL PIVOT INSERT PANEL FOUR SIDED FRAME



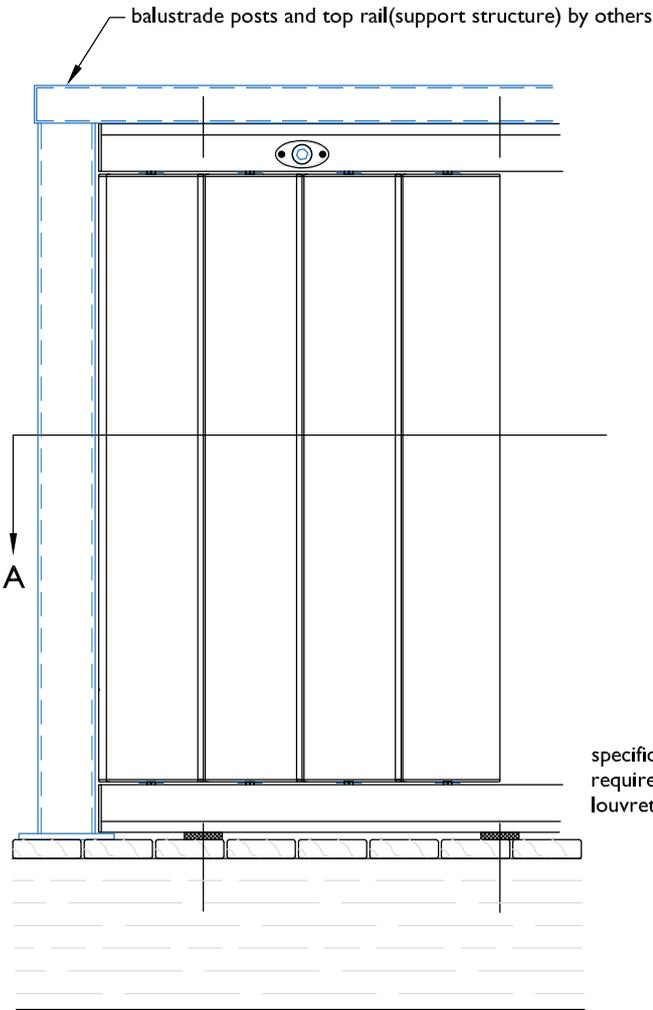
**TYPICAL DETAIL: SPIRAL PIVOT SYSTEM  
165MM HI-SPAN BALUSTRADE LOUVRE - AUSTRALIAN COMPLIANT**



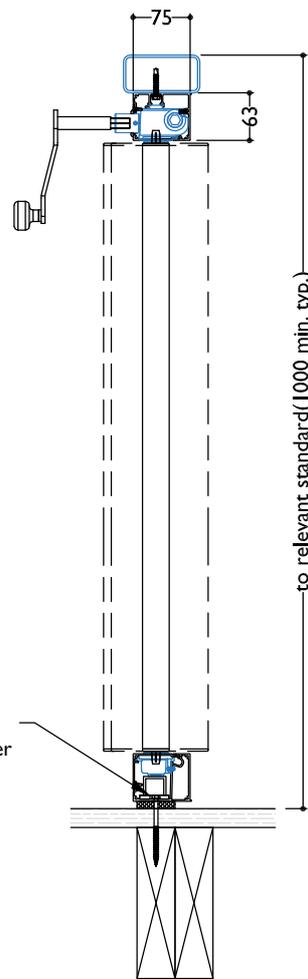
165 Hi-Span is compliant with the relevant standards as an infill for residential balustrade in Australia.  
Refer Section 13, Table 3 for maximum spans



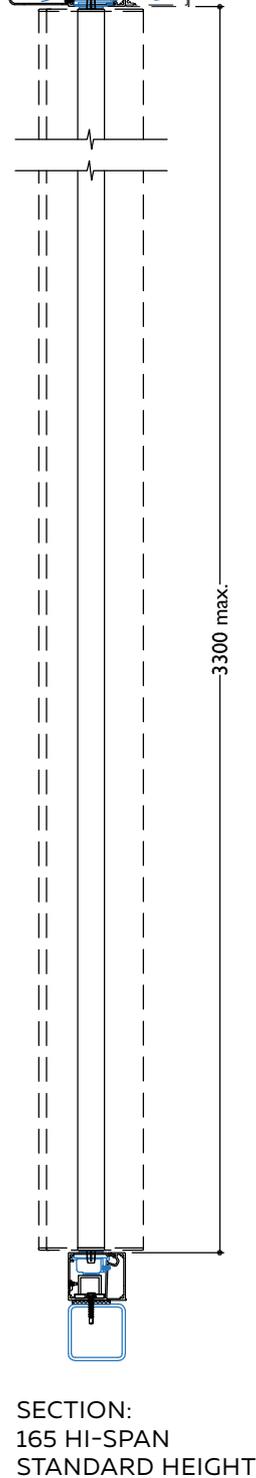
**PLAN SECTION A**



**ELEVATION: 165 HI-SPAN AS STANDARD BALUSTRADE INFILL**



**SECTION: 165 HI-SPAN STANDARD HEIGHT**



**SECTION: 165 HI-SPAN STANDARD HEIGHT**



**TYPICAL DETAIL: SPIRAL PIVOT SYSTEM**  
**135MM HI-SPAN & 165MM HI-SPAN BALUSTRADE LOUVRE FIXING DETAILS**

