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.

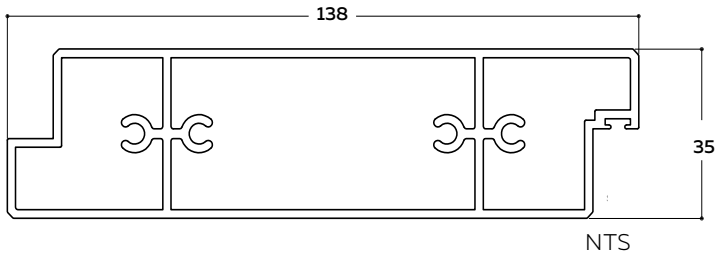
Balustrade - Technical details

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.

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.

135MM HI-SPAN BALUSTRADE LOUVRES

Operable Balustrades



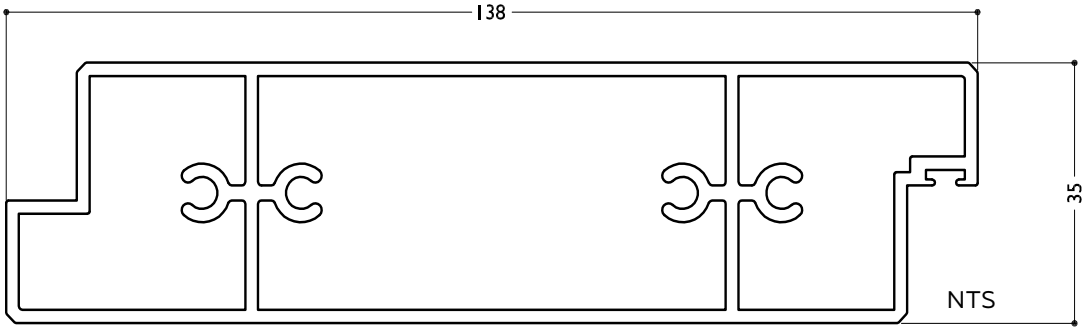
NTS

REFER TECHNICAL DETAILS PAGE 10.2.38

135MM HI-SPAN BALUSTRADE LOUVRE

SUN LOUVRES **SPIRAL PIVOT**

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

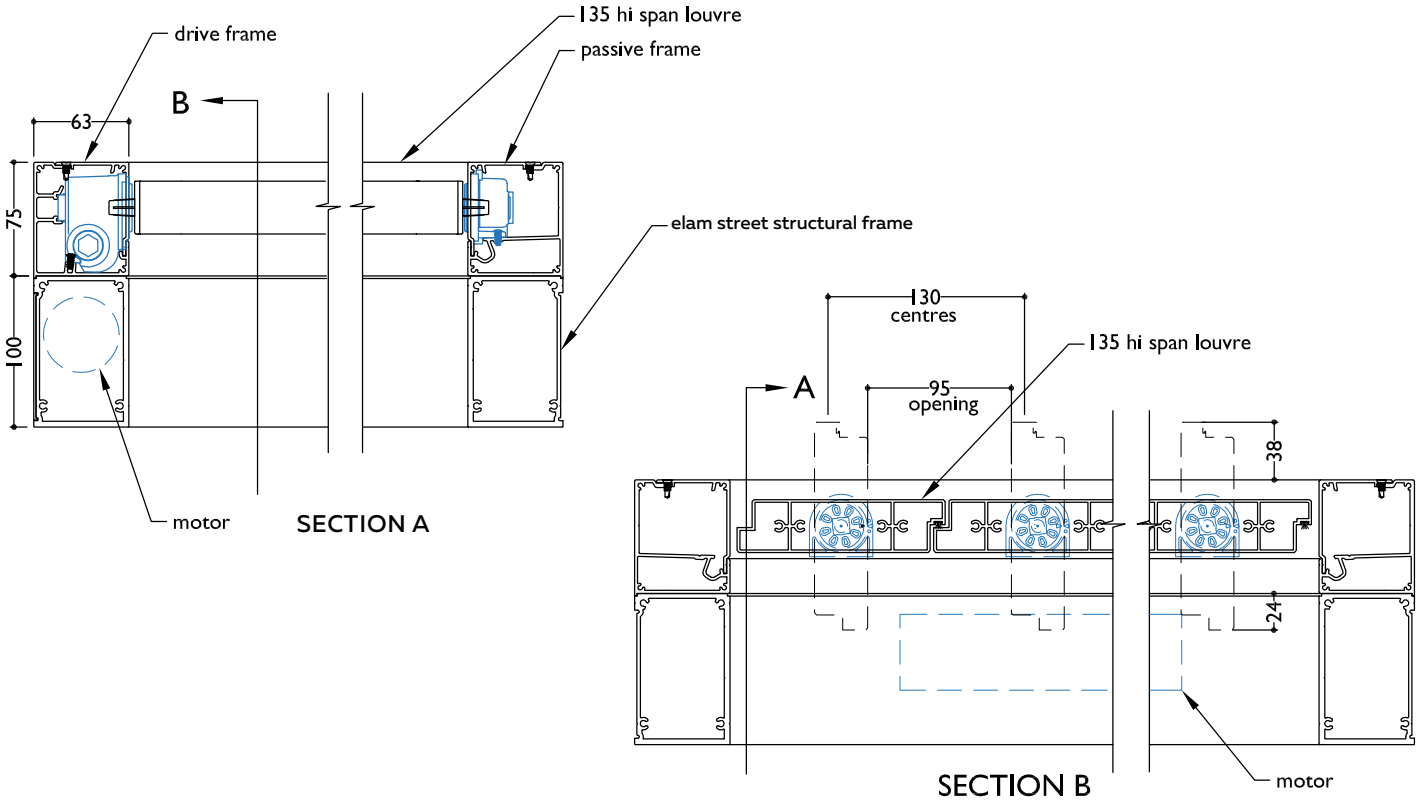
TECHNICAL DETAILS BALUSTRADES NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

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.

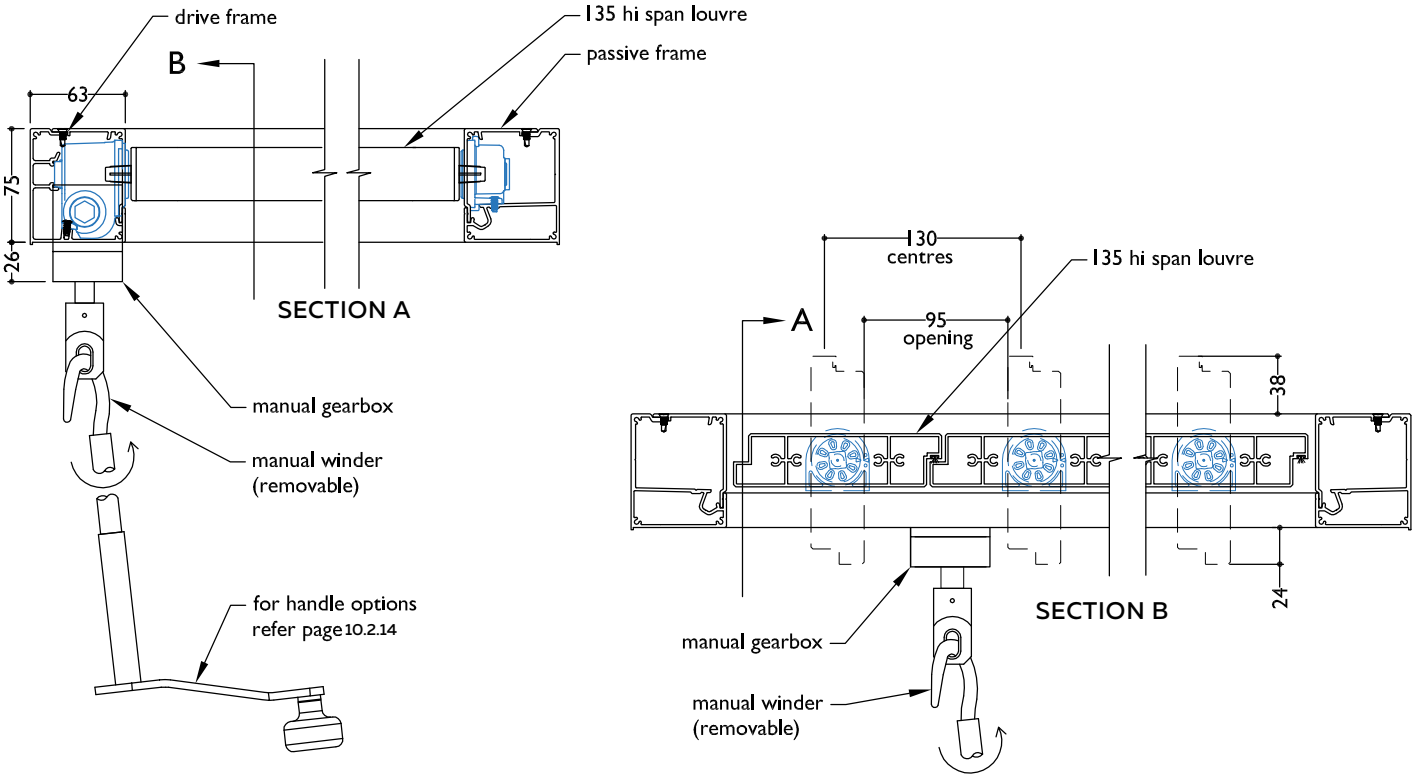
1. A barrier is required when someone could fall vertically 1m or more.
2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over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

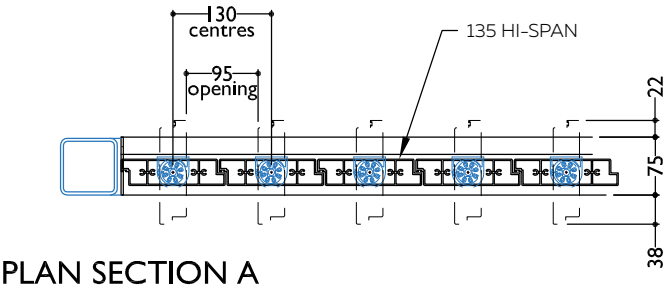


SECTION - MANUALLY OPERABLE 135 HI-SPAN LOUVRE SPIRAL PIVOT INSERT PANEL FOUR SIDED FRAME

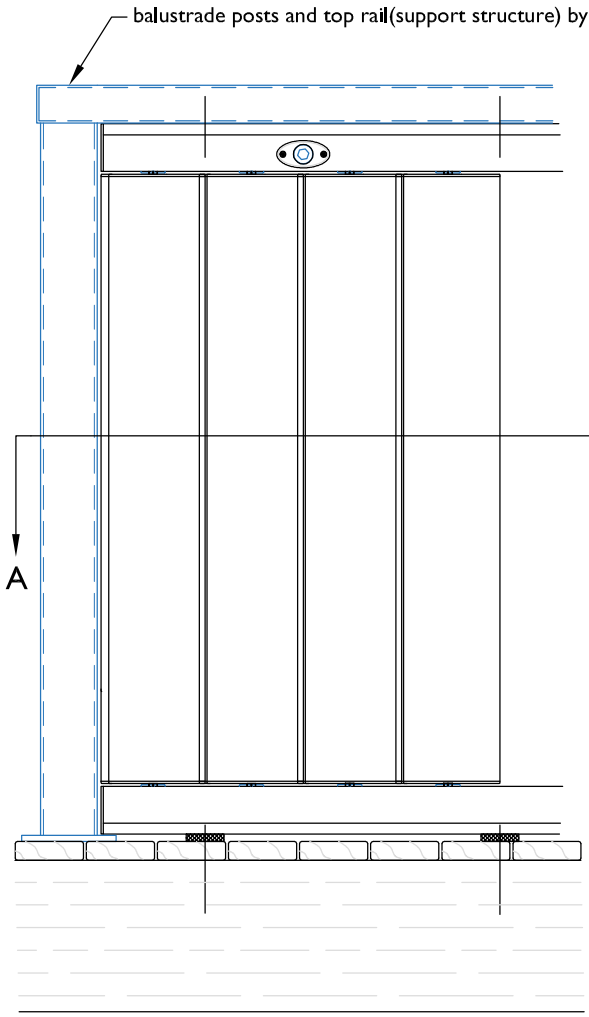


135 Hi-Span is compliant with the relevant standards as an infill for residential balustrade in New Zealand.

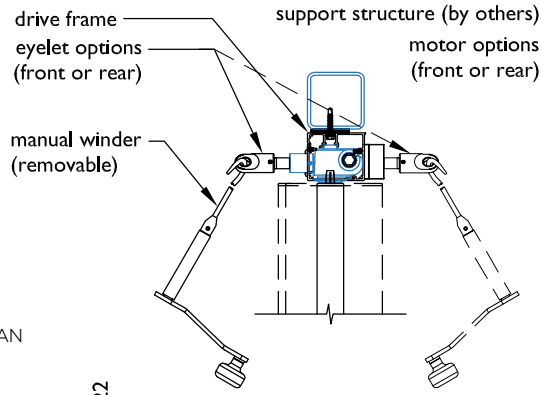
Refer Section 13, Table 3 for maximum spans

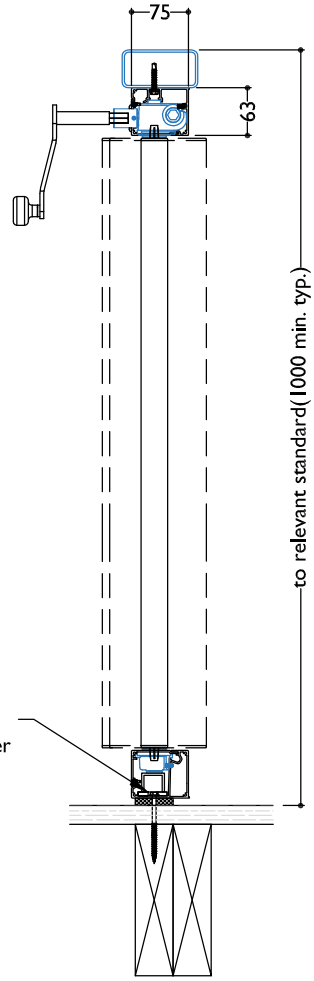


PLAN SECTION A

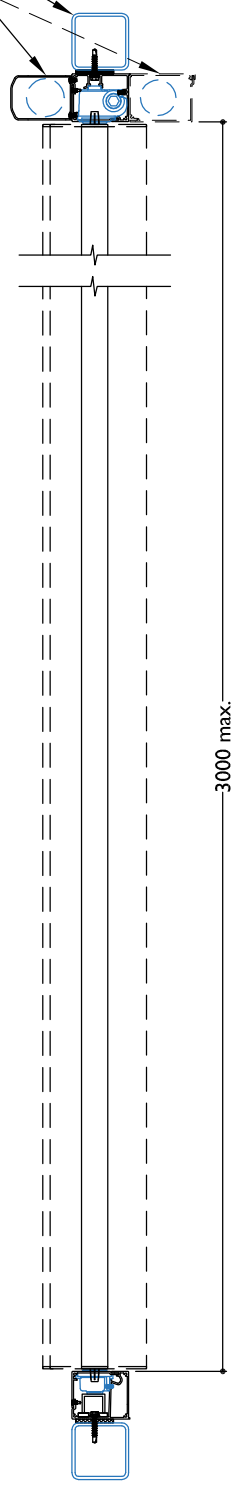


ELEVATION: 135 HI-SPAN AS STANDARD BALUSTRADE INFILL





SECTION:
135 HI-SPAN
STANDARD HEIGHT



SECTION:
135 HI-SPAN
STANDARD HEIGHT

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.

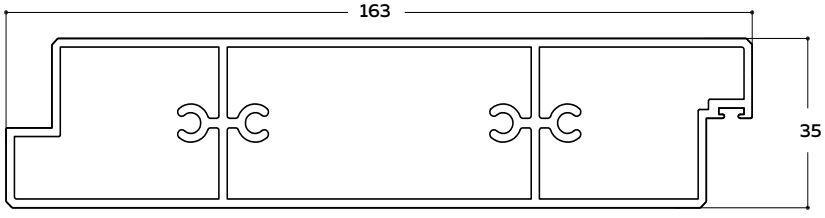
Balustrade - Technical details

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



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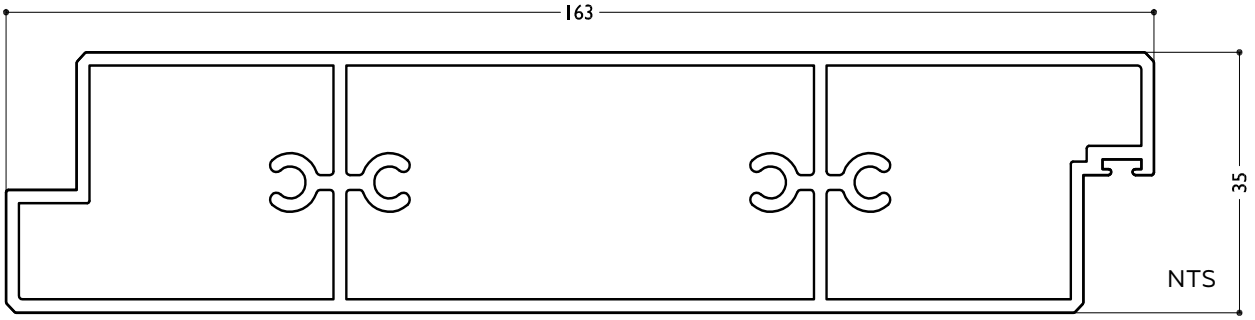
165MM HI-SPAN BALUSTRADE LOUVRE

REFER TECHNICAL DETAILS PAGE 10.2.42

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

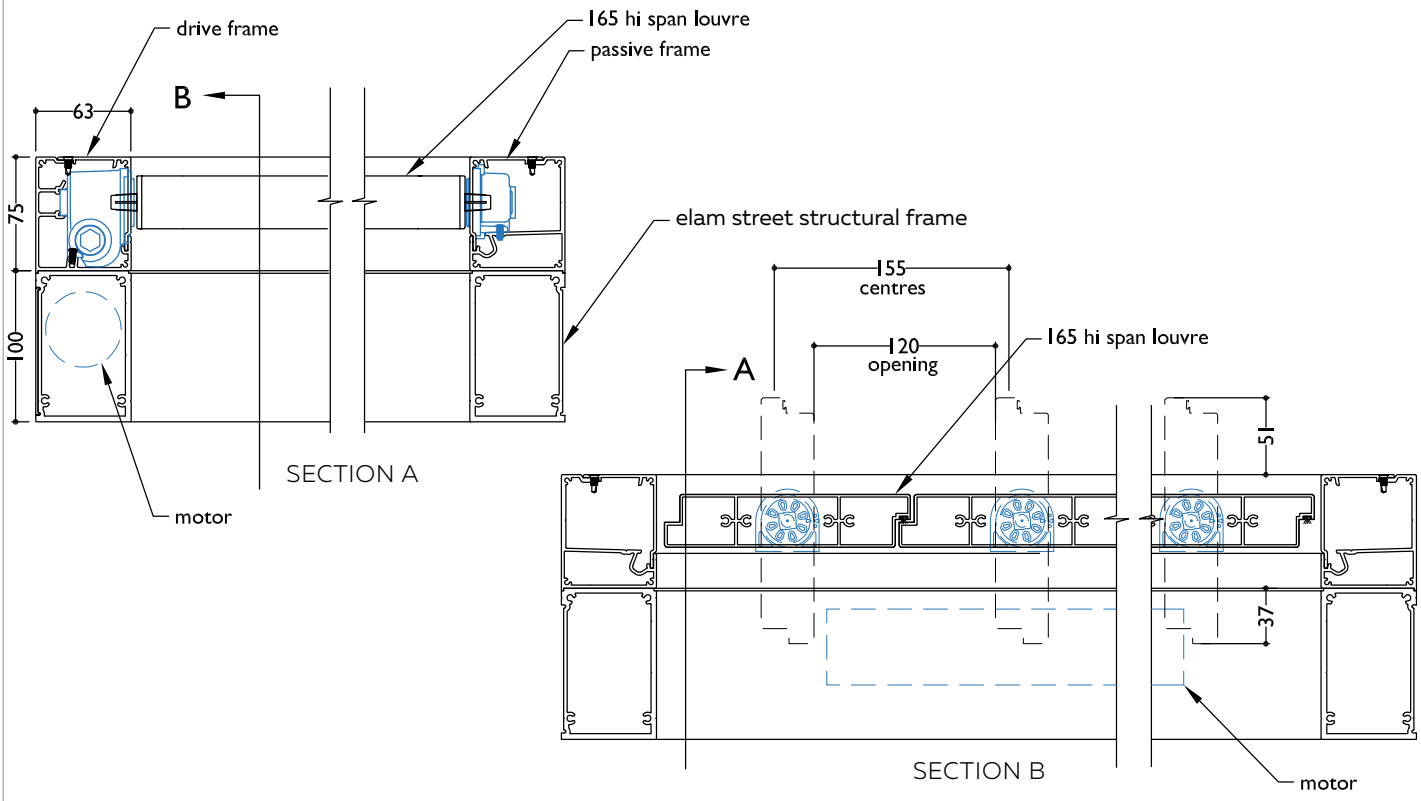
TECHNICAL DETAILS BALUSTRADES NZ AND AUSTRALIAN COMPLIANCE REQUIREMENTS

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.

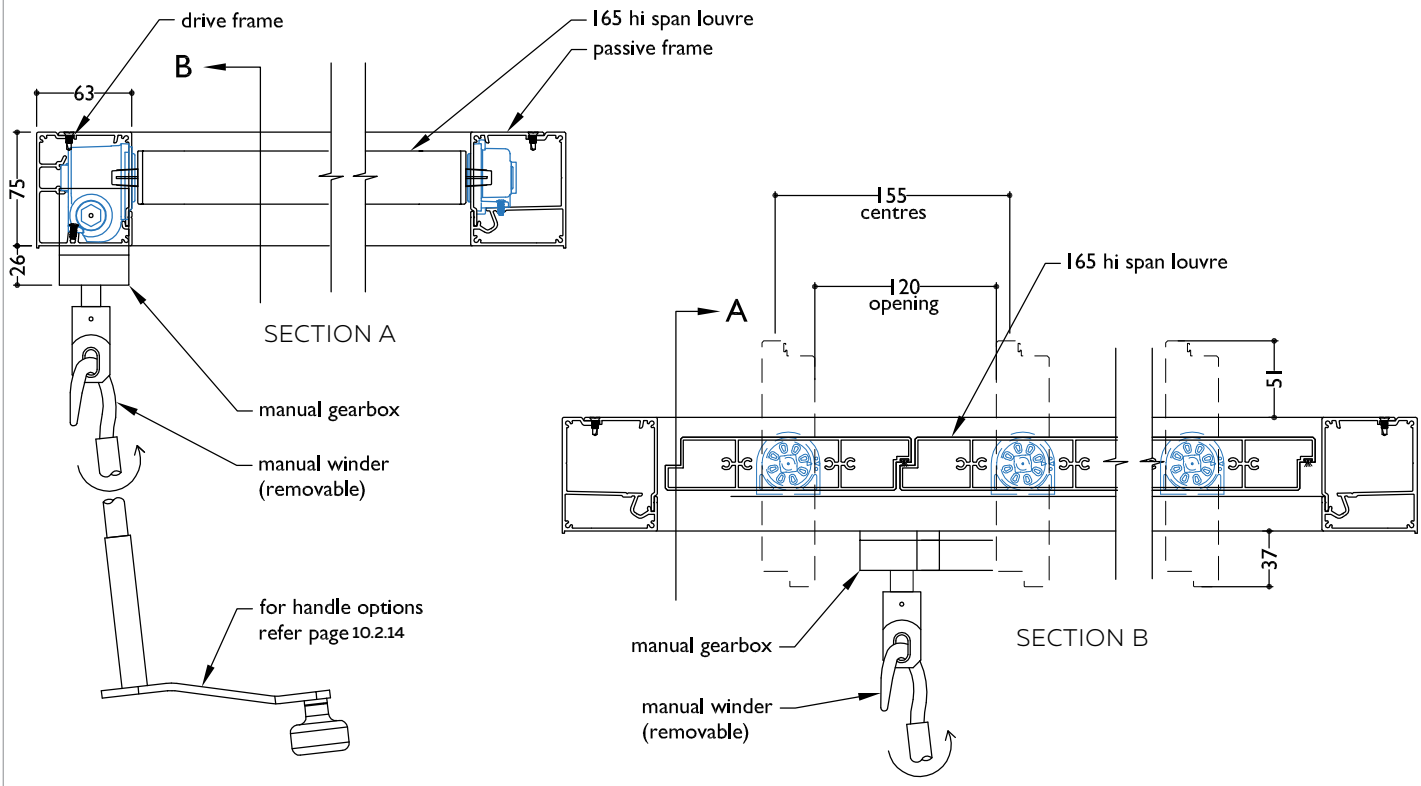
1. A barrier is required when someone could fall vertically 1m or more.
2. Balustrade or barrier must be 1m high and of adequate strength to cope with people pressing against it.
3. Ensure nowhere on the balustrade a child can get a foot hold between 150mm & 750mm above the deck surface to climb over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

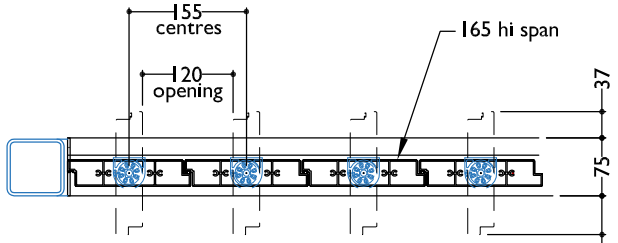


SECTION - MANUALLY OPERABLE 165 HI-SPAN LOUVRE SPIRAL PIVOT INSERT PANEL FOUR SIDED FRAME

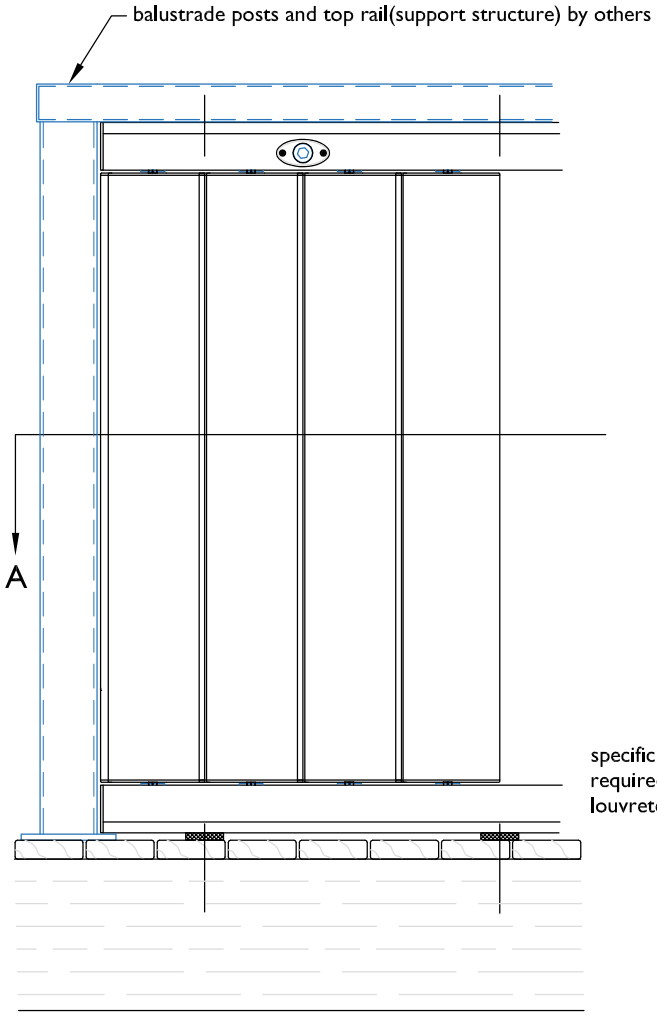


165 Hi-Span is compliant with the relevant standards as an infill for residential balustrade in Australia.

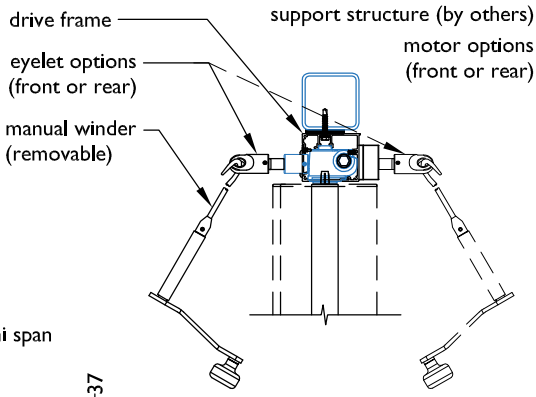
Refer Section 13, Table 3 for maximum spans

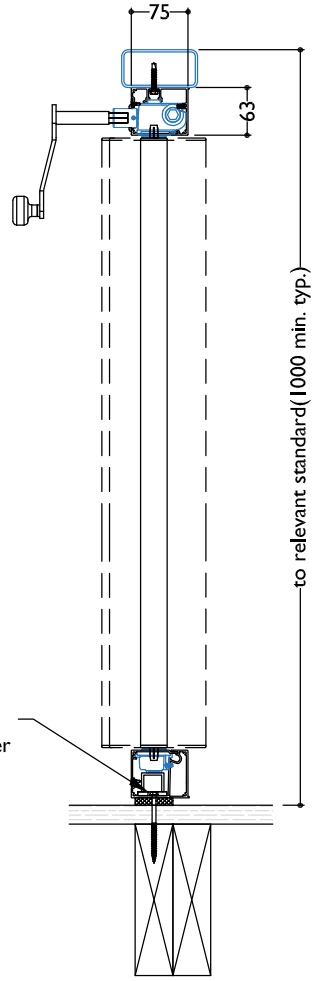


PLAN SECTION A

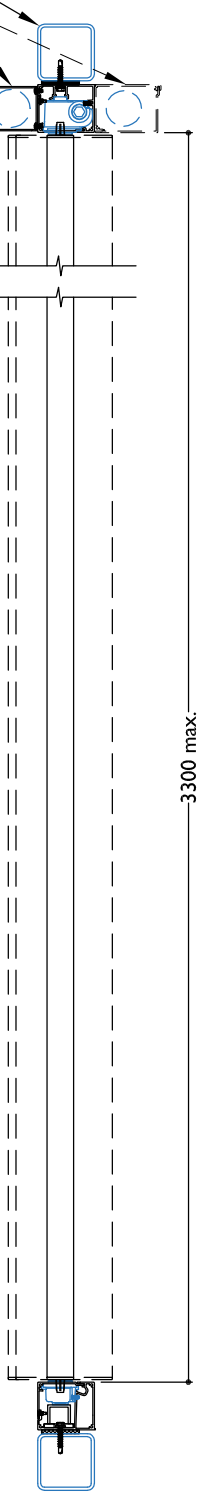


ELEVATION: 165 HI-SPAN AS STANDARD BALUSTRADE INFILL





SECTION:
165 HI-SPAN
STANDARD HEIGHT



SECTION:
165 HI-SPAN
STANDARD HEIGHT

FILE: SUN LOUVRES Spiral Pivot 10.2.44 DATE MODIFIED: 01/10/2024 SCALE: