



A FILTERED LIGHT-FILLED OUTDOOR ROOM BY LOUVRETEC AUCKLAND

270 TRANSLUCENT ROOF

Let there be light

If loss of light is an issue when the Opening Roof is closed then the unique 270 Translucent Roof provides the answer.

The Translucent Roof has now been re-designed to include "Cushion Closing" on to an external sun-resistant bulb seal. This Opening Roof also features an all new white in-fill panel of Acrylic Naturelite Plexiglas

Plexiglas offers natural UV protection throughout the material - it does not rely on an applied surface coating for UV protection. It is one of the reasons Plexiglas is used in aircraft cabin windows to protect from strong UV light and substantial differences in pressure and extreme cold.

This same material is now used on all 270 Translucent Roof Opening Roofs - high light transmission coupled with naturally UV-stable technology is as good as it gets.

This style of Opening Roof now comes with a 185mm extra wide gutter to all four sides as standard.



270 TRANSLUCENT ROOF BLADE



270 TRANSLUCENT ROOF BLADES CLOSED



270 TRANSLUCENT ROOF BLADES OPENING

MOTORISED OR HAND OPERATED

Controller and Sensor Options
Refer Pages 2.17 - 2.18
for range of options



SURFACE FINISHING OPTIONS

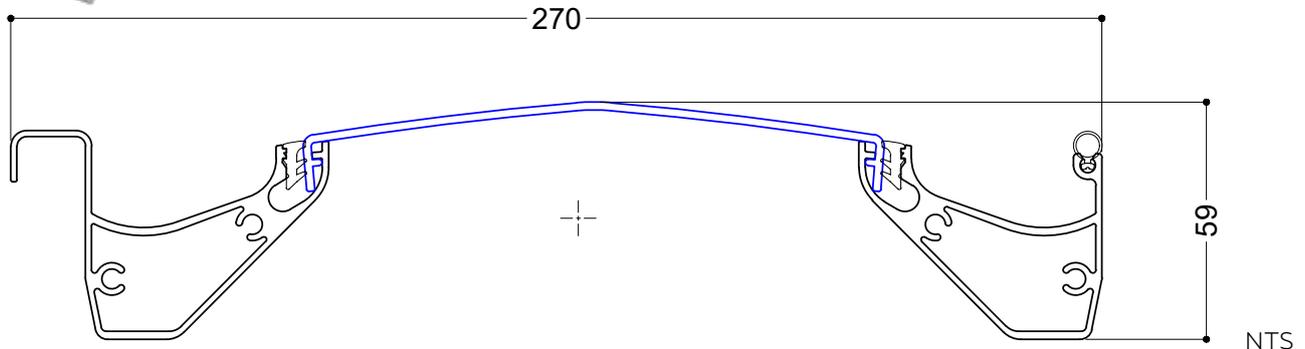
A wide range of options are available.



OPENING ROOFS SPECIFICATIONS



TECHNICAL DETAILS 270 TRANSLUCENT ROOF



BLADE SPECIFICATIONS			
Blade cover - opening system	256 mm	Weight per linear metre - opening system	2.4 kg/lm
Weight per square metre - opening system	9.4 kg/sqm	Actual blade width	270 mm
Blade centres - opening system	256 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	37m/s	44 m/s	50 m/s	55 m/s
		115 km/hr	133 km/hr	158 km/hr	179 km/hr	198 km/hr
270 Translucent Roof 3m Height	4500	4500	4500	4000	3500	3250
270 Translucent Roof 6m Height		4500	4500	3550	3250	3000

INSTALLATION OPTIONS



CALCULATE OPTIMUM FRAME
OPENING SIZES FOR SPIRAL PIVOT

Span: Check engineering span limits
Pivot: Calculation example showing 17 blades

STEP 1

16 blades x 256 Crs	4096
1 blade at 270 (blade size)	+ 270
17 blades	= 4366

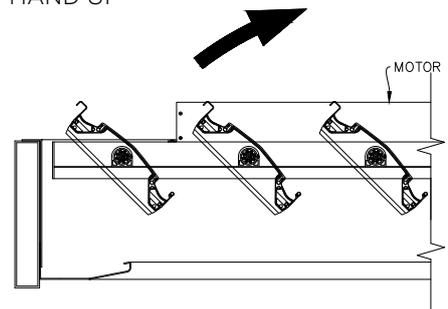
STEP 2

Blade cover	4366
+2/22mm clearance @ ends	= 44
Total exact pivot length	= 4410

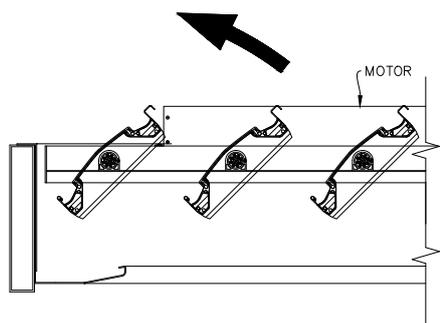
Extra width 185mm gutter provides cover if clearance increases over 22mm at ends.
Blade direction either Right Hand up or Left Hand up.

CHOOSE DIRECTION OF BLADE PIVOT

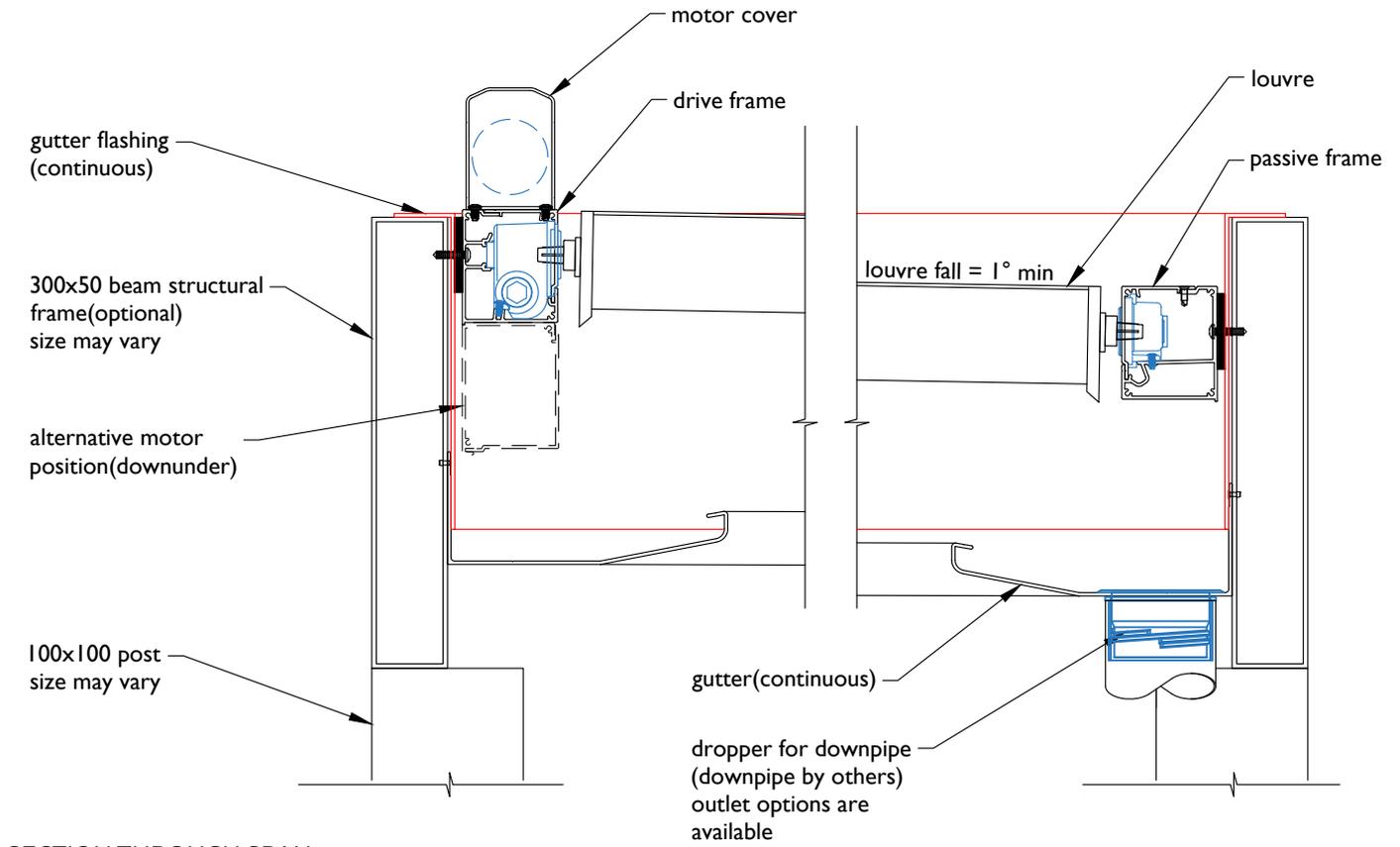
LEFT HAND UP



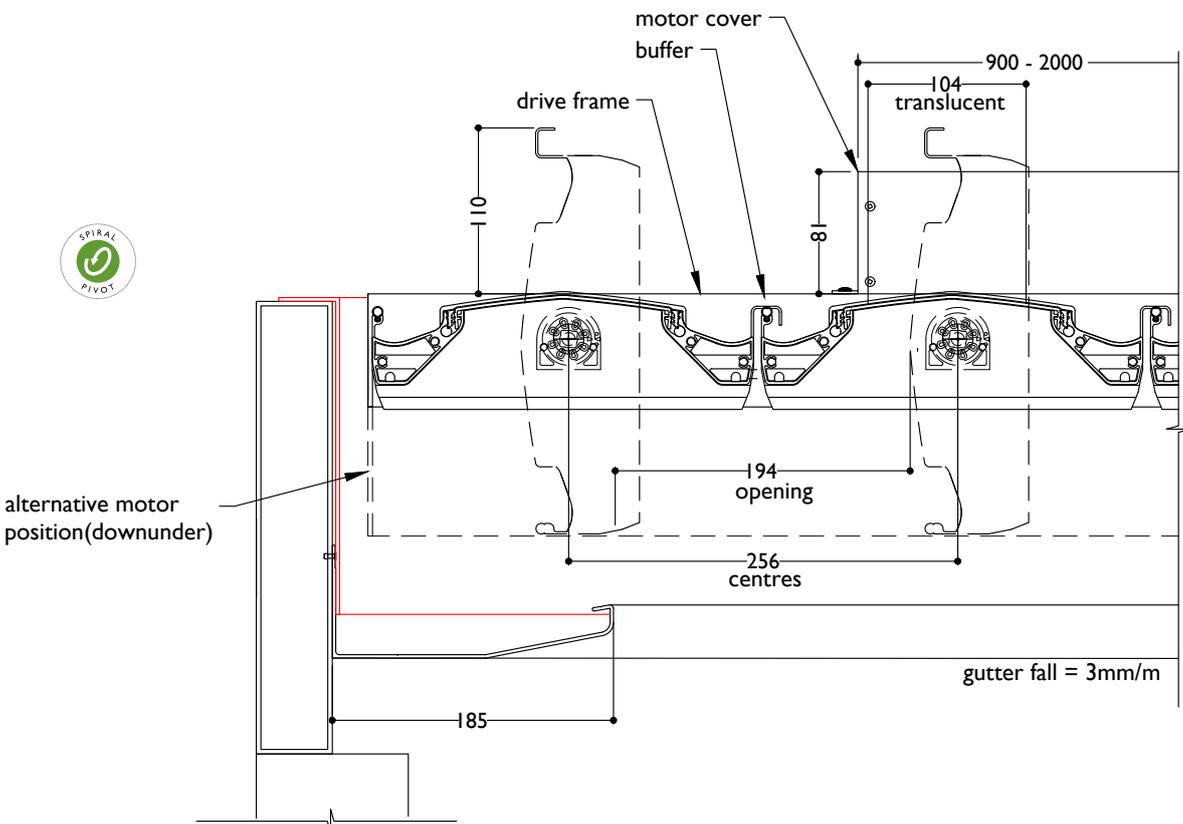
RIGHT HAND UP



**TYPICAL DETAIL : MOTORISED 270 TRANSLUCENT ROOF
WITHIN LOUVRETEC STRUCTURAL FRAME**

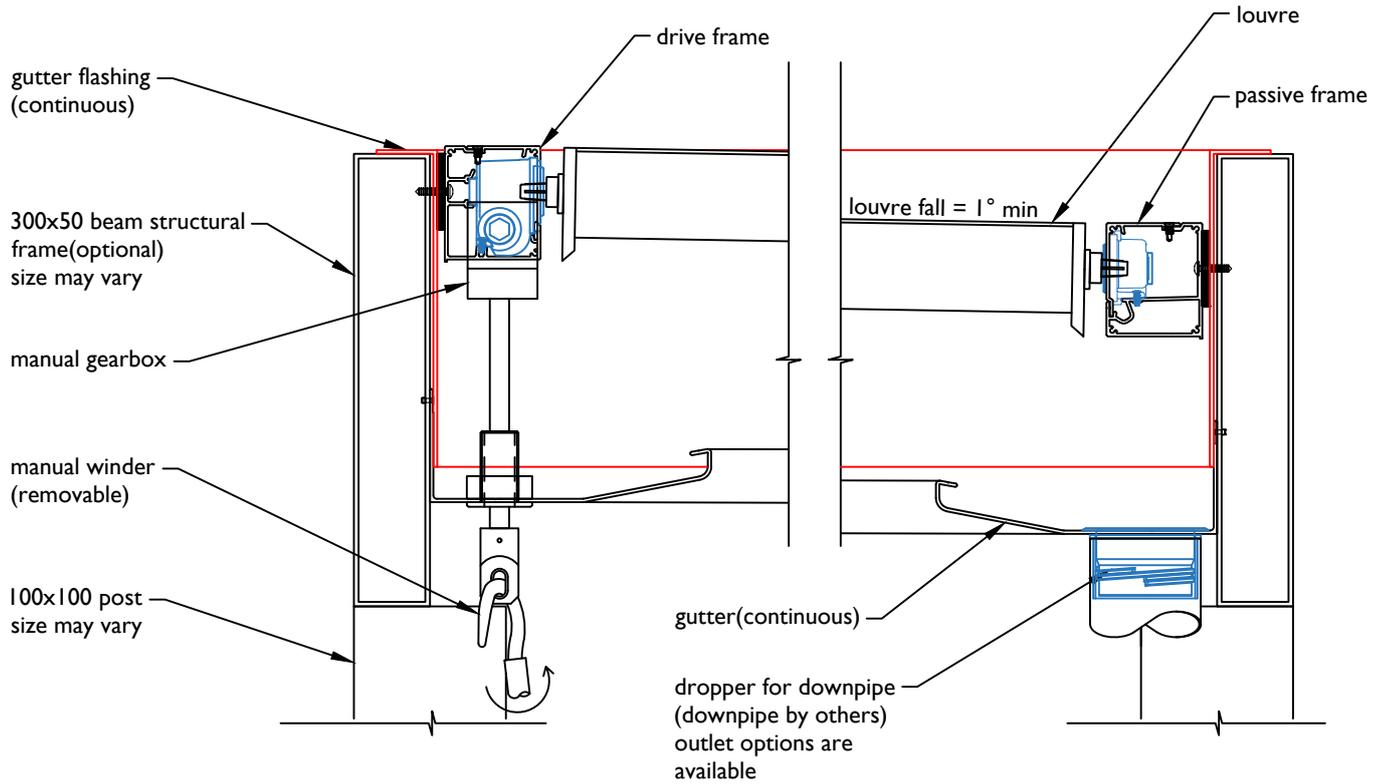


SECTION THROUGH SPAN

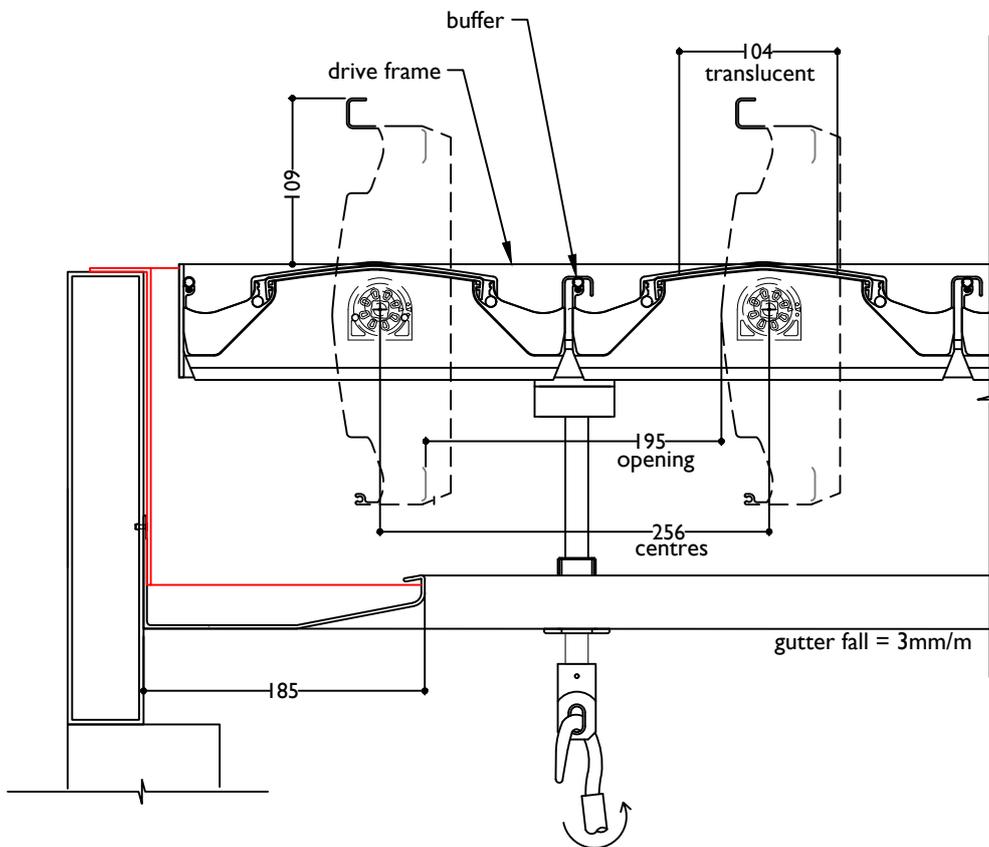


SECTION THROUGH LOUVRES

**TYPICAL DETAIL : MANUAL 270 TRANSLUCENT ROOF
WITHIN LOUVRETEC STRUCTURAL FRAME**



SECTION THROUGH SPAN



SECTION THROUGH LOUVRES