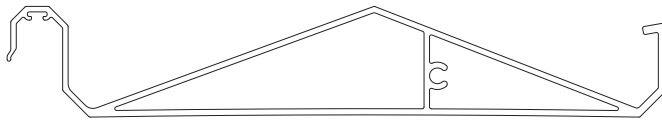


TECHNICAL DETAILS // 180 LINEAR OPENING ROOF



BLADE SPECIFICATIONS

// Blade cover - opening system	_____ 169 mm	// Weight per lineal metre	_____ 1.84 kgm
// Weight per square metre - opening system	_____ 11 kg/sqm	// Actual blade width	_____ 180 mm
// Blade centres - opening system	_____ 169 mm		

SPANS AT A GLANCE

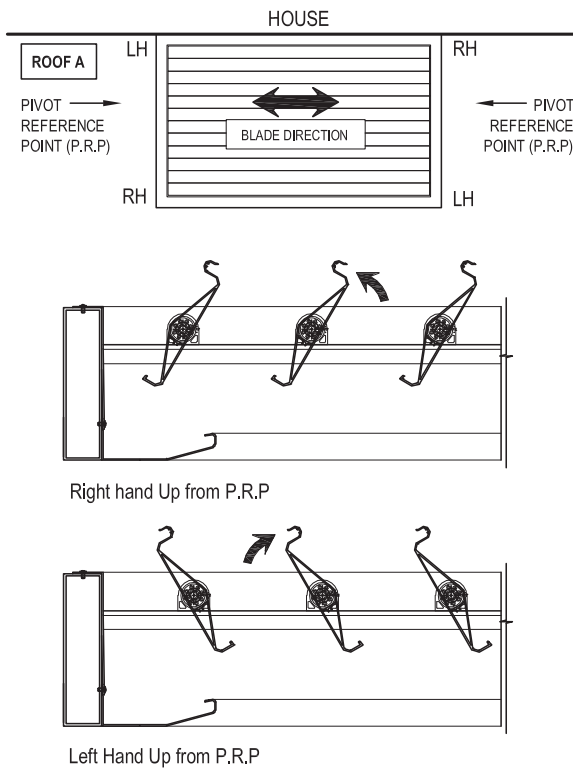
Important: Refer to page section 10 for engineering details. Factors such as climate, terrain, shielding, location, type of structure all contribute to determine spans.

WIND ZONE	INSIDE	LOW	MED	HIGH	VERY HIGH
Factored wind speed at building	Self wt	32m/s-115km/h	37m/s-133km/h	44m/s-158km/h	50m/s-179km/h
Ultimate limit state loads (kPa)		+1.1 & -1.38	+1.48 & -1.85	+2.09 & -2.61	+2.70 & -3.38
180 Linear Opening Roof	3900	3750	3400	3000	2750

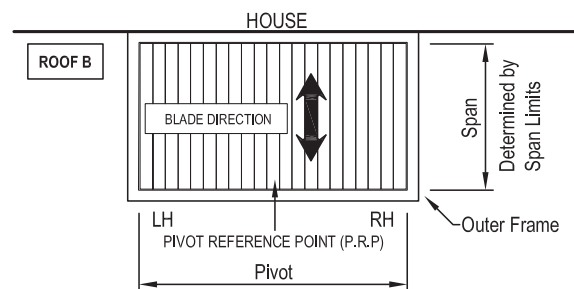
INSTALLATION OPTIONS

// CALCULATE OPTIMUM FRAME OPENING SIZES

OPENING DIRECTION OF BLADES



CALCULATE OPTIMUM FRAME OPENING SIZES



P.R.P: Establish Pivot Reference point (P.R.P)
There are two options Roof (A) and Roof (B).

Span: Check engineering span limits

Pivot: Example Calculation showing - 17 Blades

$$\begin{aligned} \text{Step 1 } & 16 \text{ blades} \times 169 \text{ (CRS)} &= & 2704 \\ & \frac{1 \text{ blade @ } 180 \text{ (Blade Size)}}{17 \text{ blades in total}} &+ & 180 \\ & &= & 2884 \end{aligned}$$

$$\begin{aligned} \text{Step 2 } & \text{Blade Cover} &= & 2884 \\ & \frac{+2 \times 22 \text{mm Clearance @ ends}}{\text{Total exact pivot length}} &= & 44 \\ & &= & 2928 \text{mm} \end{aligned}$$

- 150mm Wide internal gutter provides cover if clearance increases over 22mm at ends

- Blade direction either Right Hand up or Left Hand up.