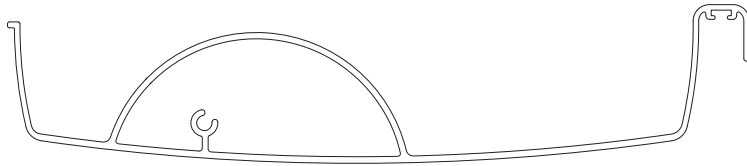


TECHNICAL DETAILS // ECO 200 24-230V
DIRECT DRIVE OPENING ROOF SYSTEM



BLADE SPECIFICATIONS

- // Blade cover - opening system _____ 192 mm
- // Weight per lineal metre _____ 1.851 kgm
- // Weight per square metre - opening system _____ 9.64 kg/sqm
- // Actual blade width _____ 200 mm
- // Blade centres - opening system _____ 192 mm

SPANS AT A GLANCE

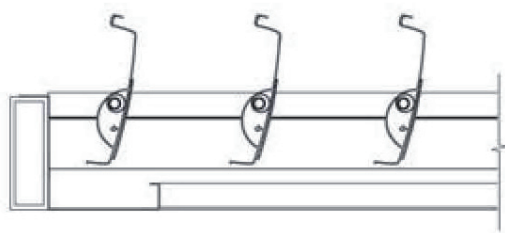
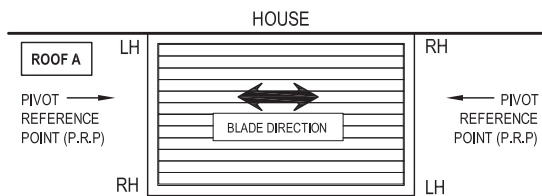
Important: Refer to page section 10 for engineering details. Factors such as climate, terrain, shielding, location, type of structure all contribute to determine spans.

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
200 Direct Drive Opening Roof	4500	3900	3750	3200	2800

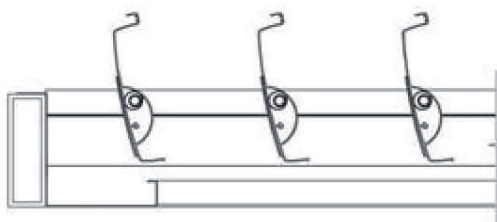
INSTALLATION OPTIONS

// **CALCULATE OPTIMUM FRAME OPENING SIZES**

OPENING DIRECTION OF BLADES

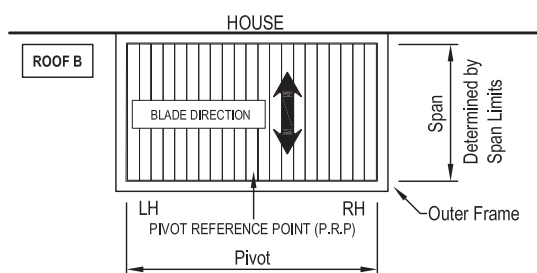


Right hand Up from P.R.P



Left Hand Up from P.R.P

CALCULATE OPTIMUM FRAME OPENING SIZES



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

Span: Check engineering span limits.

Pivot: Example Calculation showing - 17 Blades.

$$\begin{array}{r} \text{Step 1} \quad 16 \text{ blades} \times 192 \text{CrS} \quad = 3072 \\ \quad \quad \quad 1 \text{ blade} \text{ @ } 200 \text{ (Blade Size)} + 200 \\ \quad \quad \quad \underline{17 \text{ blades in total}} \quad = 3272 \end{array}$$

$$\begin{array}{r} \text{Step 2} \quad \text{Blade Cover} \quad \quad \quad 3272 \\ \quad \quad \quad +2/22\text{mm Clearance @ ends} = 44 \\ \quad \quad \quad \underline{\text{Total exact pivot length}} \quad = 3316 \end{array}$$

- 150mm Wide internal gutter provides cover if clearance increases over 22mm at ends.
- Blade direction either Right Hand up or Left Hand up.