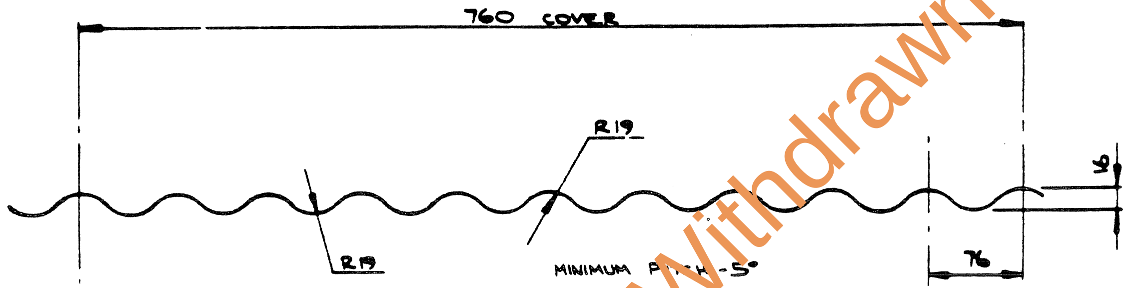
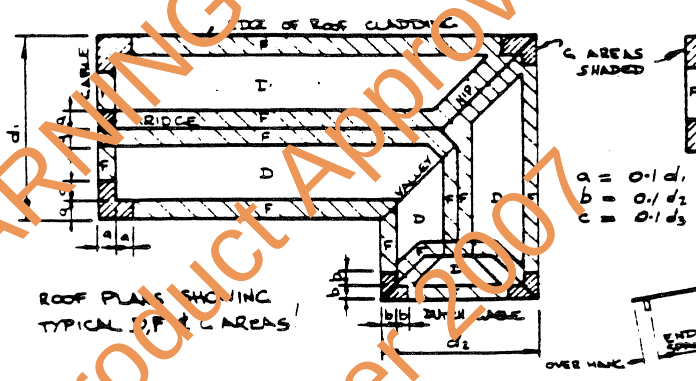
ALLOWABLE ROOF SPANS FOR 0·48 MONIER CORRUGATED ROOF SHEETING FIXED WITH CYCLONE WASHERS.





ROOF PLANS SHOWING TYPICAL D, F & G AREAS

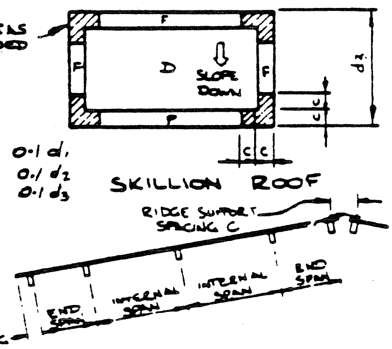


TABLE 1. MAX ALLOWABLE SPANS.

SHEET TO BE CREST FIXED EVERY SECOND CORRUGATION.

TERRAIN CATEGORY MULTIPLIER.	ROOF AREA NOTATION	DESIGN WIND PRESSURE	MAX. END SPAN (mm)	MAX. INTERNAL SPAN (mm)	OVERHANG MAX.	OVERHANG MIN.	RIDGE PURLIN SPACING	SIDE LAP FASTENER
CAT. 1. 1·02	D	4·24	850	1040	UNSUPPORTED - 200mm STIFFENED - 300mm	50mm FOR ALL FIXING CONDITIONS.	240mm FOR ALL FIXING CONDITIONS.	SIDE LAP FASTENER REQ'D AT CENTRE SPAN FOR SPANS EXCEEDING 900mm. USE No 8×12mm CAD PLATED SELF TAPPING SCREW WITH NEOPRENE WASHER
	F	5·37	670	830				
	G	6·49	530	690				
CAT. 2. 0·93	D	3·53	900	1200				
	F	4·46	810	980				
	G	5·40	660	820				
CAT 2½ 0·79	D	2·55	900	1200				
	F	3·22	900	1200				
	G	3·89	900	1130				

NOTES:-

1. 0·48mm TOTAL COATED THICKNESS (0·42 BASE) Al/Zn COATED STEEL TO AS1445-G550-AZ 150 COLORBOND AND MARVIPLATE FINISHES HAVE AZ 150 CLASS Al/Zn COATING.
2. REFER TO DATA SHEET No FOR DETAIL OF CYCLONE WASHER
3. BASIC DESIGN WIND VELOCITY = 1·15 × 55 = 63·25 m/sec.
4. P_z = DESIGN WIND PRESSURE IN kPa DERIVED FROM $P_z = C_p q_z$ WHERE $q_z = 0{\cdot}6\left(\begin{smallmatrix}\text{TERRAIN CAT}\\\text{MULTIPLIER}\end{smallmatrix} \times \begin{smallmatrix}\text{BASIC DESIGN}\\\text{WIND VELOCITY}\end{smallmatrix}\right)^2 \times 10^{-3}$, C_p = OVERALL PRESSURE COEFFICIENT, C_p EXTERNAL = 0·9 C_p INTERNAL = 0·8 FOR ROOF AREA D $C_p = 0{\cdot}9 + 0{\cdot}8 = 1{\cdot}70$, AREA F $C_p = (1{\cdot}9 \times 0{\cdot}9) + 0{\cdot}8 = 2{\cdot}15$, AREA G $C_p = (2 \times 0{\cdot}9) + 0{\cdot}8 = 2{\cdot}60$
5. MAX ALLOWABLE SPANS DERIVED FROM TABLE 1 OF DATA SHEET No M/112/4

MANUFACTURER - MONIER METAL BUILDING PRODUCTS EVERLEY Rd SOUTH GRANVILLE N.S.W. 2142	FIXING OF :- MONIER CORRUGATED ON BUILDINGS OF HEIGHT UP TO 5m.
	DESIGN DATA SHEET DARWIN CYCLONIC AREA.
CERTIFIED - ERIC STOKES BCE FIE (AUST) HEAD OF DEPARTMENT CIVIL & AERONAUTICAL ENGINEERING RMIT LTD DATE:- 25/10/1985	DEPARTMENT OF LANDS BUILDING BRANCH — DRAWING No M/112/3
	APP'D [signature] DATE 25-10-85