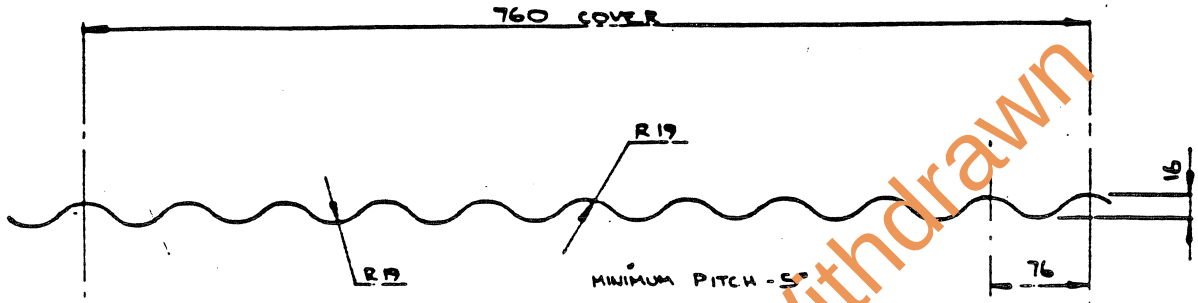
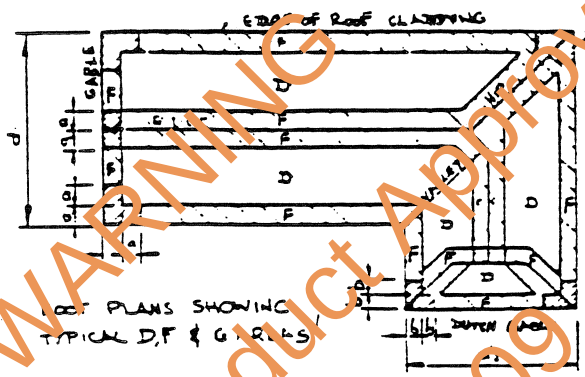
ALLOWABLE ROOF SPANS FOR 0·48 MARATHON ROOF SHEETING FIXED WITH CYCLONE WASHERS.





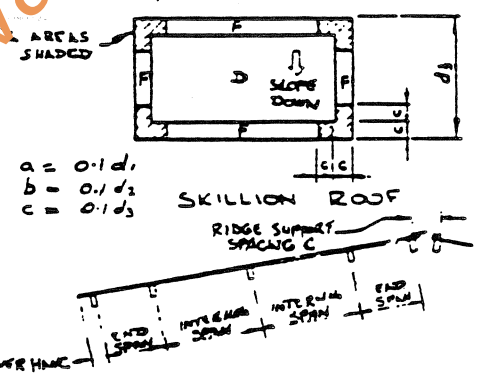


TABLE 1. MAX ALLOWABLE SPANS.

SHEET TO BE CREST FIXED EVERY SECOND CORRUGATION

TERRAIN CATEGORY MULTIPLIER	ROOF AREA NOTATION	DESIGN WIND PRESSURE	MAX. WIND 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 READ AT CENTRE SPAN FOR SPANS EXCEEDING 900mm. USE No 8x12mm CAD PLATED SELF TAPPING SCREW WITH NEOPRENE WASHER
	F	5·37	670	830				
	C	6·49	530	690				
CAT 2. 0·93	D	3·53	900	1200				
	F	4·46	810	980				
	C	5·40	660	820				
CAT 2½ 0·79	D	2·55	900	1200				
	F	3·22	900	1200				
	C	3·89	900	1130				

NOTES:-

1. 0·48mm TOTAL COATED THICKNESS (0·42 BASE) Al/Zn COATED STEEL TO AS1365-G550-AZ150 COLORBOND AND MARVIPLATE FINISHES HAVE AZ150 CLASS Al/Zn COATING.
2. REFER TO DATA SHEET No M/113/4 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 $q_z = 0.6 (\text{TERRAIN CAT MULTIPLIER} \times \text{BASIC DESIGN WIND VELOCITY})^2 \times 10^{-3}$
   C_p = OVERALL PRESSURE COEFFICIENT, C_p EXTERNAL = 0·9 C_p INTERNAL = 0·8 FOR ROOF AREA D $C_p = 0.9 + 0.8 = 1.70$
   AREA F $C_p = (1.9 - 0.9) + 0.8 = 2.15$, AREA C $C_p = (2 \times 0.9) + 0.8 = 2.60$
5. MAX ALLOWABLE SPANS DERIVED FROM TABLE 1 OF DATA SHEET No M/113/4

MANUFACTURER -
WOODROFFE SHEET METAL Pty. Ltd.
1 TAMINGA St.
REGENCY PARK. S.A. 5010

FIXING OF :- MARATHON
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
DATE 25/10/85

DEPARTMENT OF LANDS
BUILDING BRANCH

A.P.P.'D [signature] DATE 15/5/86
MIE (AUST)

DRAWING No. M/113/3.