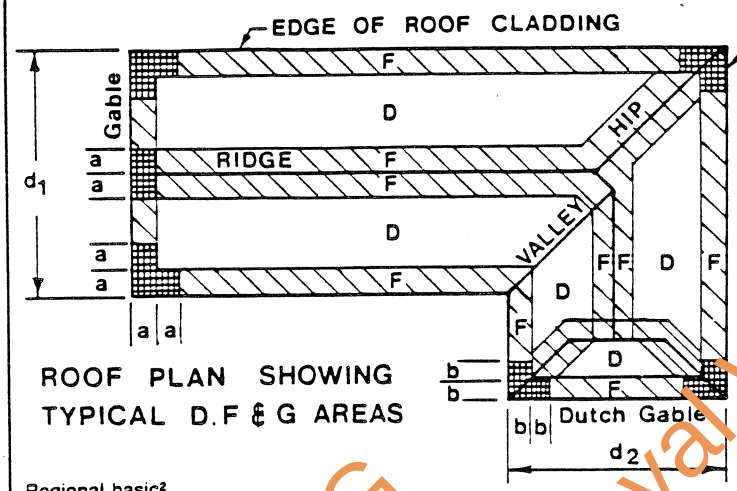
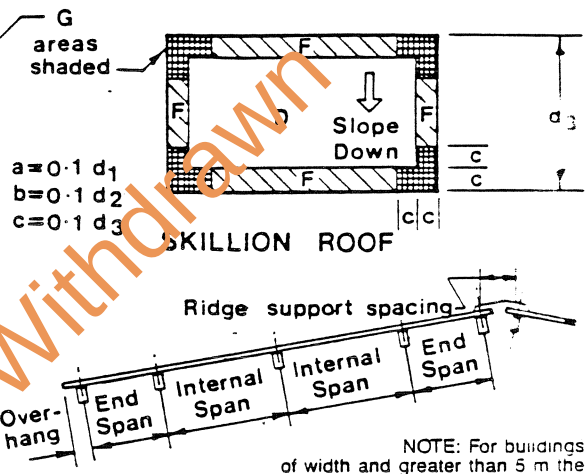
ALLOWABLE ROOF SPANS FOR 0.48 mm INTERDEK[1] FIXED WITH 40 x 46 x 1.0 mm CYCLONE WASHERS[4]





NOTE: For buildings of width and greater than 5 m the first 2 spans at each end of the sheet shall be treated as end spans.

Regional basic[2] design wind velocity =55 m/sec.

TABLE 1 MAX. ALLOWABLE ROOF SPANS[3] FOR BUILDINGS OF HEIGHT UP TO 5m

TERRAIN[7] CATEGORY MULTIPLIER	ROOF AREA NOTATION	END SPAN mm	INTERNAL SPAN mm
CAT 1	D 3 Pz = 4.24	1010	1240
1.02	F	810	990
	G 6.49	670	830
CAT 2	D 3.53	1200	1460
0.93	F 4.46	960	1190
	G	810	990
CAT 2½	D 2.55	1300	1700
0.79	F 3.22	1300	1560
	G 3.89	1100	1340

TABLE 2 MAX. ALLOWABLE ROOF SPANS[3] FOR BUILDINGS OF HEIGHT FROM 5 m TO 10 m[4]

TERRAIN CATEGORY MULTIPLIER	ROOF AREA NOTATION	END SPAN mm	INTERNAL SPAN mm
CAT 1	D 3 Pz = 4.85	880	1100
1.09	F 6.13	710	870
	G 7.41	570	740
CAT 2	D 4.08	1050	1300
1.00	F 5.16	840	1040
	G 6.24	700	860
CAT 2½	D 2.95	1300	1650
0.85	F 3.73	1140	1390
	G 4.51	950	1180

NOTES

1. 0.49 mm total coated thickness (0.42 mm base) Al/Zn coated steel to AS1397-G550-AZ150. Supplied by John Lysaght Australia.
2. Basic design wind velocity = 1.15 x 55 = 63.25 M/sec.
3. Pz = design wind pressure in kPa derived from Pz = Cpqz where qz = 0.6 (terrain category multiplier x basic design wind velocity)^2 x 10^{-3}, and Cp = overall pressure coefficient
   Cp external = 0.9, Cp internal = 0.8
   For roof area D, Cp = 0.9 + 0.8 = 1.7, area F, Cp = (1.5 x 0.9) + 0.8 = 2.15, area G, Cp = (2 x 0.9) + 0.8 = 2.60.
4. Refer to data sheet no. 1B for details of cyclone washer.
5. Max. Allowable spans derived by linear interpolation in table 1 of data sheet No. 1B
6. Refer to AS1170-Part 2-1983 appendix B.
7. Refer to N.T. Building Manual part 30
8. Refer to AS1170 Part 2-1983, rule 9.

Overhang
Maximum
Stiffened = 300 mm
Unstiffened = 150 mm
Minimum = 50 mm

Ridge Purlin Spacing
Maximum = 240 mm

Side Lap Fasteners
Side lap fasteners are required at centre span for spans exceeding 400 mm
Screw Specification: slotted pan head self-tapping or hexagon head "S" point no. 8 x 12 mm with neoprene washer

MANUF'S NAME . . The Roofing Centre Darwin

ADDRESS . . Lot 1130 Georgina Cres.

Palmerston . PHONE No.(089) 32 2077

FIXING OF . . . . . Interdek . . . . . .

. . . . . Roofing for buildings up to 10m . . . . .

IN THE DARWIN AREA

CERTIFIED . . . . . M.I.E. AUST

R.L. CULLEN, REGISTERED ENGINEER
QLD. No. 1705

DESIGN DATA SHEET 2B

DEPARTMENT OF LANDS
BUILDINGS BRANCH

APP'D [signature] DATE 12/12/86

DRAWING No. M/114/3