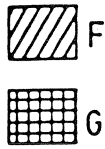
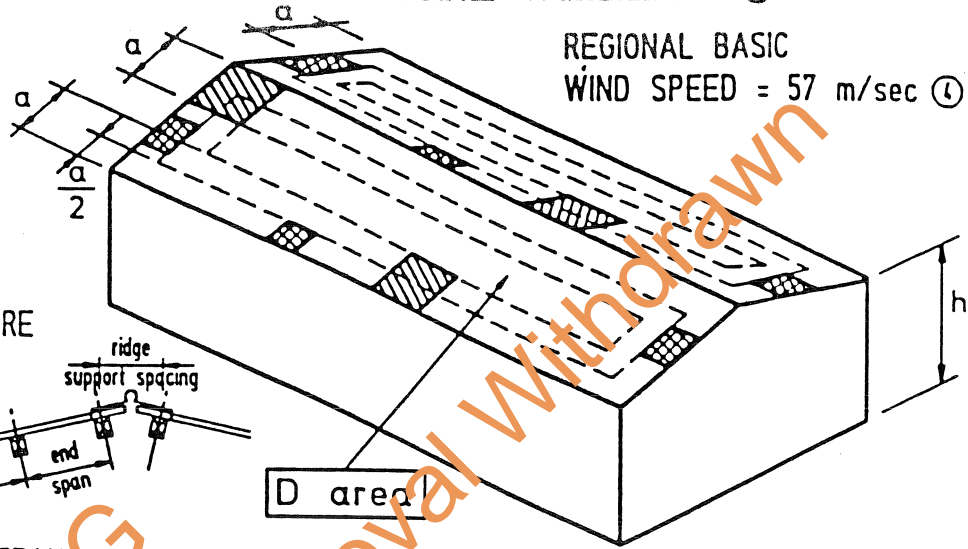


ALLOWABLE ROOF SPANS FOR 0.47mm CORAK CORRUGATED FIXED WITH 40 x 46 x 1.0mm CYCLONE WASHERS ①



ISOMETRIC SHOWING
TYPICAL LOCAL PRESSURE
COEFFICIENTS (K)



REGIONAL BASIC
WIND SPEED = 57 m/sec ④

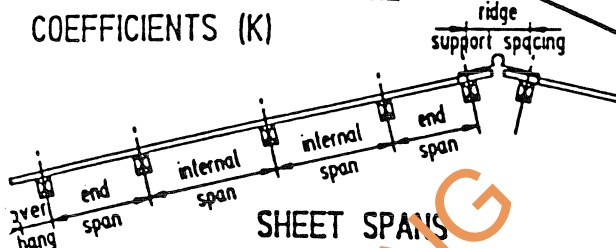


TABLE 1 . MAX. ALLOWABLE SPANS ⑤

| Terrain category Multiplier | Roof Area Notation | Fastener Frequency ⑥ | Maximum End Span mm | Maximum Internal Span mm | Overhang | | Ridge Purlin Spacing | Side Lap Fastener |
|-----------------------------|--------------------|-----------------------|---------------------|--------------------------|--|--------------------------------|--------------------------------------|---|
| | | | | | Maximum | Minimum | | |
| CATEGORY 1 AND 2 0.95 | D ② Pz = 2.8 | Every 2nd Corrugation | 900 | 1200 | Unsupported Overhangs 200mm Stiffened Overhangs 300mm | 50mm for All Fixing Conditions | 240mm Max. for All Fixing Conditions | Side lap Fasteners required at centre span for spans exceeding 900mm. Screw Specification - Slotted pan head self lapping or hex No. 5 point No. 8 x 12mm with neoprene seal |
| | F Pz = 3.6 | | 900 | 1200 | | | | |
| | G Pz = 4.4 | | 750 | 900 | | | | |
| CATEGORY 2 1/2 0.88 | D Pz = 2.40 | | 900 | 1200 | | | | |
| | F Pz = 3.06 | | 900 | 1200 | | | | |
| | G Pz = 3.73 | | 900 | 1100 | | | | |

NOTES :

- 0.47mm total coated thickness (0.42mm base Zn/Al coated steel to ASI445-C990-AZ 150 colorbond has a AZ150 Class Zn/Al coating supplied by B.H.P.
- $V_z = V_p M(z,cat) M_s M_l M_i$ where $M_s = M_l = M_i = 1.0$ and $M(z,cat) =$ Terrain Category Multiplier.
 $q_z = 0.6V_z^2 \times 10^{-3}$
 $p_z = C_p q_z$
 $C_p =$ Overall pressure coefficient
 $C_{pe} = -0.9$ $C_{pi} = +0.7$
- Refer to data sheet no. 2 for details of cyclone washer.
- Basic Wind Speed $V_p = 57$ m/sec.
- Max. allowance spans derived from table 1 of data sheet 2.

Sheeting Profile

MANUF'S NAME **METCLAD METAL ROOFING AND CLADDING PTY LTD**

ADDRESS **LOT 1130 GEORGINA CR. PALMERSTON**
PHONE No. **(089) 32 2077**

FIXING OF Corak Corrugated
On Buildings of Height up to 5m
IN THE DARWIN AREA



IRWIN, JOHNSTON & PARTNERS (M.T.) ENGINEERS PTY. LTD. CONSULTING ENGINEERS
82 SMYTH STREET, DARWIN 0801
TEL (089) 19 071 FAX (089) 814 010

DESIGN DATA SHEET 1

DEPT. OF LANDS AND HOUSING
BUILDING AUTHORITY BRANCH

DRAWING. NO.
M/114/8

CERTIFIED

M.I.E. AUST

APP'D

DATE 2-3-94