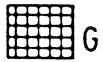


**ALLOWABLE ROOF SPANS FOR 0.47mm TRIMCLAD ①
FIXED WITH 40 x 33 x 1.0mm CYCLONE WASHERS ③**

REGIONAL BASIC
WIND SPEED = 57 m/sec ④



ISOMETRIC SHOWING
TYPICAL LOCAL PRESSURE
COEFFICIENTS (K)

SHEET SPANS

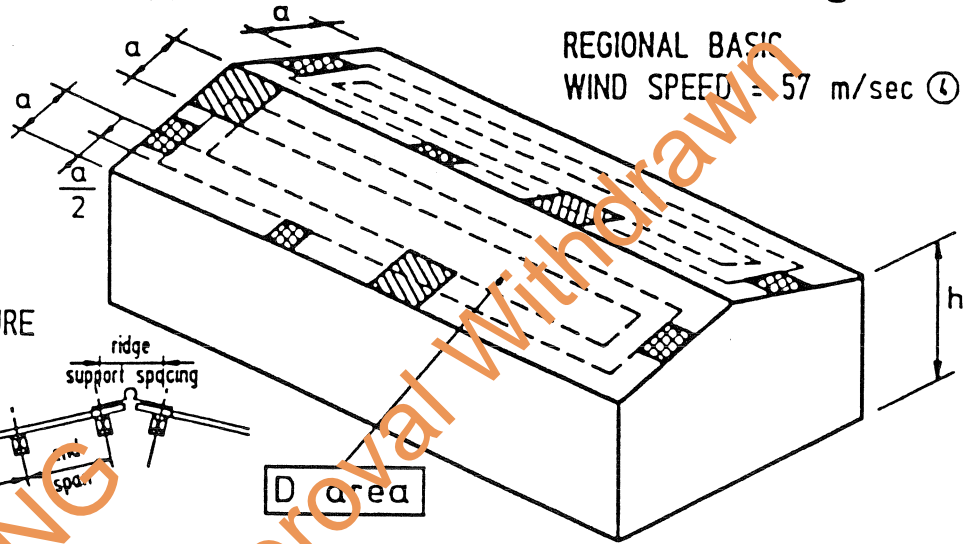
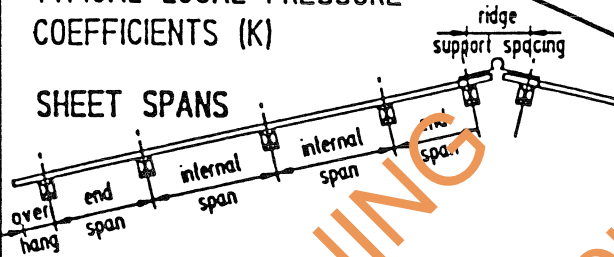


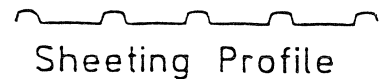
TABLE 1 . MAX. ALLOWABLE SPANS ⑤

Terrain category Multiplier	Roof Area Notation	Fastener Frequency	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 Corrugation	1000	1200	Unsupported Overhangs 150mm 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 tapping or hex No. 5 point No. 8 x 12mm with neoprene seal
	F Pz = 3.6		1000	1100				
	G Pz = 4.4		900	1000				
CATEGORY 2 1/2 0.88	D Pz = 2.40		1000	1200				
	F Pz = 3.06		1000	1200				
	G Pz = 3.73		1000	1200				

NOTES :

- 0.47mm total coated thickness (0.42mm base Zn/Al coated steel to AS1445-C990-AZ 150 colorbond has a AZ150 Class Zn/Al coating supplied by B.H.P.
- $V_z = V_p M(z,cat) M_s M_t M_i$ where $M_s = M_t = M_i = 1.0$ 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 Trimclad
On Buildings of Height up to 5m
IN THE DARWIN AREA



IRWIN, JOHNSTON & PARTNERS (M.T.) ENGINEERS PTY. LTD. CONSULTING ENGINEERS
82 SMITH STREET, DARWIN 0801
TEL (089) 329 811 FAX (089) 814 010

DESIGN DATA SHEET 1

DEPT. OF LANDS AND HOUSING
BUILDING AUTHORITY BRANCH

DRAWING. NO.

M/114/10

CERTIFIED

M.I.E. AUST

APP'D

DATE 2-3-1996