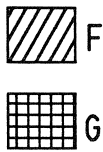


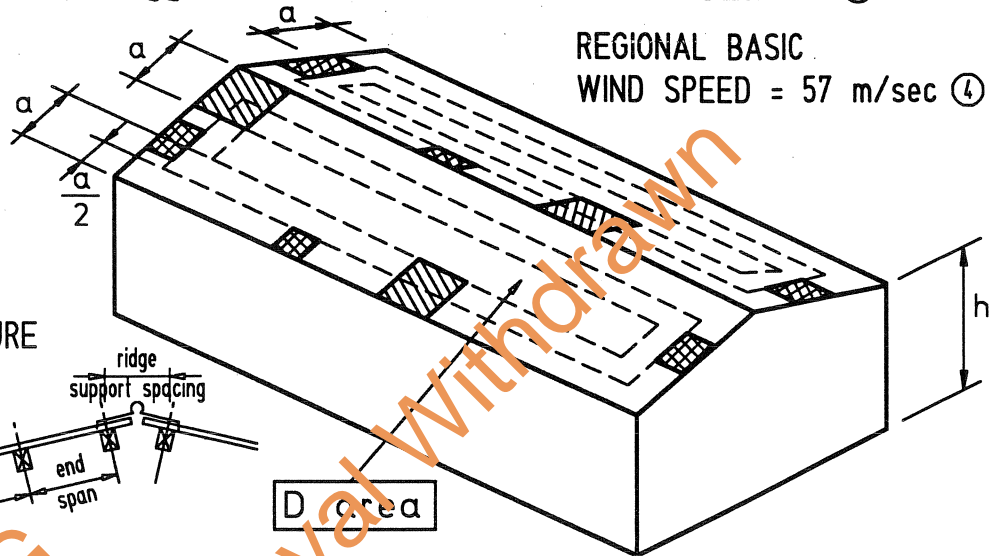
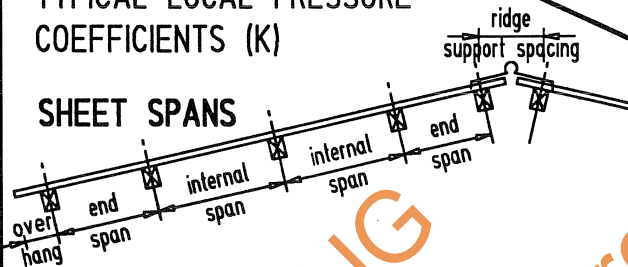
# ALLOWABLE ROOF SPANS FOR 0.47mm TRIMCLAD<sup>①</sup> FIXED WITH 40 x 33 x 1.0mm CYCLONE WASHERS<sup>③</sup>

REGIONAL BASIC  
WIND SPEED = 57 m/sec<sup>④</sup>



ISOMETRIC SHOWING  
TYPICAL LOCAL PRESSURE  
COEFFICIENTS (K)

SHEET SPANS



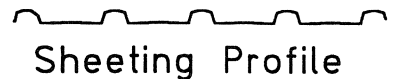
**TABLE 1 . MAX ALLOWABLE SPANS** <sup>⑤</sup>

Terrain category Multiplier	Roof Area Rotation	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 <sup>②</sup> 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 ASI445-C990-AZ 150 colorbond has a AZ150 Class Zn/Al coating supplied by J.L.A.
- $V_z = V_p M(z,cat) M_s M_t M_i$  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.



**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 (N.T.) ENGINEERS PTY. LTD.**  
 CONSULTING ENGINEERS  
 82 SMITH STREET, DARWIN 0801  
 TEL (089)819 011 FAX (089)814 010

**DESIGN DATA SHEET 1**

DEPT. OF LANDS AND HOUSING BUILDING AUTHORITY BRANCH  
 DRAWING. NO. M/121/3

CERTIFIED

*[Signature]*

M.I.E. AUST

APP'D

*[Signature]*

DATE 26-8-93