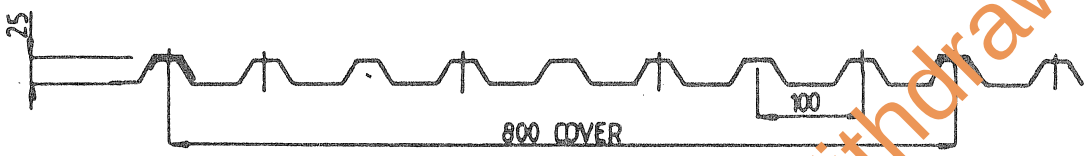
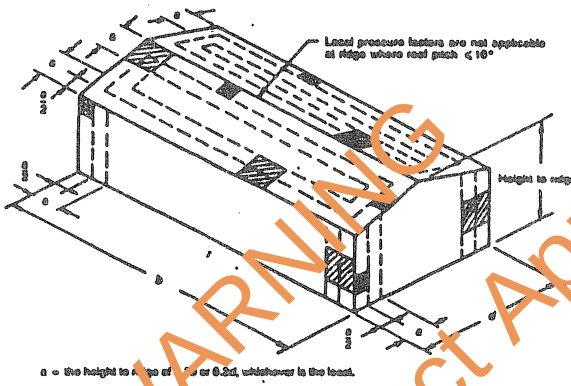
HOSKING, OBORN & PARTNERS PTY. LTD.
CONSULTING ENGINEERS
263 MELBOURNE STREET, NORTH ADELAIDE SOUTH AUSTRALIA 5006
TELEPHONE (08) 2673177
TELEX AA82244

CYCLIC TESTING OF
HI-SPAN 800 CLADDING

DATE	JOB	BY	SHEET
MAY 1987	1835/11	MS	

ALLOWABLE ROOF SPANS FOR 0.42mm WOODROFFES Hi-Span 800 ROOF SHEETING FIXED WITH CYCLONE WASHERS.

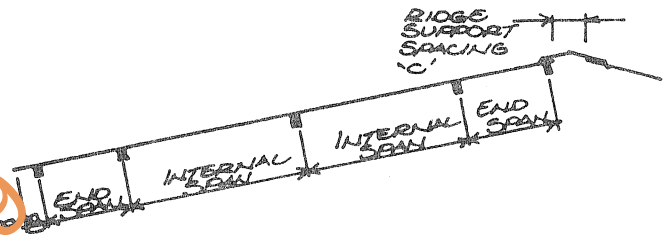




LOCAL PRESSURE ZONES

LOCAL PRESSURE FACTORS

Case	Area	K_l
1	Any area of extent $a \times a$ within a distance a from roof edge, ridge involving a roof pitch of more than 10 degrees, or wall edge	1.5
2	Any area of extent $0.5a \times 0.5a$ within a distance $0.5a$ from roof edge, ridge involving a roof pitch of more than 10 degrees, or wall edge	2.0



(TABLE 2. (Max. Allowable Spans for Buildings of 5–10m in height.)

Terrain Category Multiplier	Roof Area Notation	Design Wind (kPa) Pressure	Max. End (mm) Span	Max. Internal Span	Overhang Max.	Overhang Min.	Ridge Purlin Spacing	Side Lap Fastener
Cat. 1 1.02	General	4.85	870	1070	Unsupported – 250 mm	Edge distance 50 mm for all fixing conditions.	300 mm for all conditions.	Side lap fasteners required at centre span for spans exceeding 900 mm. Screw Specification : Slotted pan head size tapping or Hexagon head "S" point No.8 x 12 mm with neoprene washers.
	Case 1	6.13	610	750				
	Case 2	7.41	–	–				
Cat. 2 0.93	General	4.08	1030	1260				
	Case 1	5.16	810	990				
	Case 2	6.24	595	730				
Cat. 2 1/2 0.79	General	2.94	1255	1540				
	Case 1	3.72	1100	1350				
	Case 2	4.50	945	1160				

NOTES : 1. HI-SPAN is a cold formed roof decking manufactured from G550 steel sheeting base metal thickness 0.42 mm, total cated thickness 0.47 mm.
2. Refer to APPENDIX A for details of cyclone washer and other fixings.
3. Refer to APPENDIX B (attached) for wind load calculations.
4. Maximum allowable spans derived with attached graph obtained from load test. Refer APPENDIX C.
5. Table 2 is based on cyclic testing carried out in accordance with Darwin Area Building Manual – Part 39.7

MANUF'S. NAME – WOODROFFE SHEETMETAL Pty. Ltd.

ADDRESS 1 TAMINGA STREET
REGENCY PARK
S.A. 5007

PHONE No. (08) 243 1144

CERTIFIED .....

DATE 12/6/87

FIXING OF: WOODROFFE "Hi-Span 800"
for Buildings 5m – 10m in height.
IN THE DARWIN AREA.

DESIGN DATA SHEET

DEPARTMENT OF LANDS AND HOUSING

APP'D. J Wansey DATE 6/87

DRAWING No. M/113/27