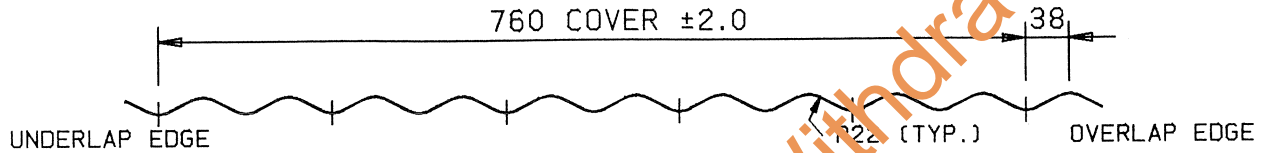




CORRUGATED IRON (CYCLONIC AREAS)

CORRUGATED IRON PAN-FIXED WALLING



PRODUCT SPECIFICATION:

0.42 BMT Z/A Steel to AS1397 G550 AZ150.

DESIGN DATA:

The design wind pressures in Table 1 are derived from test results obtained from testing at the University of Adelaide CivilTest Laboratories. The tests were carried out in accordance with the requirements of AS4040.3-1992 Methods of Testing Sheet Roof and Wall Cladding.

Table 2 gives allowable spans based on linear interpolations of pressures in Table 1. For each terrain category the allowable end spans and internal spans have been calculated taking into account the local pressure factor K1 from Cl.3.4.5 of AS1170.2-1989. The maximum allowable overhang for the cladding is 200mm.

Design wind loads are determined in accordance with AS1170.2-1989 'Wind Loads' for a basic wind speed of 57m/sec with $M_s=M_t=M_i=1.0$ and assuming an internal pressure coefficient of +0.8, and an external pressure coefficient of -0.65. Racking strength provided by the cladding has not been tested and should not be allowed for in the design of the cladding.

FIXING RECOMMENDATIONS:

- Into Hardwood: Type 17 No.14x25 with neoprene washer
- Into Softwood: Type 17 No.14x50 with neoprene washer
- Into Steel: (up to 2.5mm) No.14-10x20 self drilling screw with neoprene washer
- (up to 5.0mm) No.14-10x22 self drilling screw with neoprene washer

Note: Increase screw lengths for fixing over insulation material.

TABLE 1:

DESIGN WIND PRESSURE, Pz, kPa		
SPAN mm	END SPAN	INT. SPAN
900	3.9	5.2
1200	2.6	3.5
1500	1.8	2.6

TABLE 2:

WALL SHEETING MAX. ALLOWABLE SPANS				
TERRAIN CATEGORY	K1	Pz kPa	END SPAN mm	INT. SPAN mm
CAT 3	1.0	1.88	1470	1820
	1.5	2.33	1280	1600
	2.0	2.78	1130	1420
CAT 2.5	1.0	2.19	1330	1670
	1.5	2.72	1150	1440
	2.0	3.25	1020	1270
CAT 2	1.0	2.50	1220	1530
	1.5	3.10	1070	1320
	2.0	3.71	930	1150

STRATCO (N.T.) PTY LTD
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WALLS UP TO 7.5m HIGH
WITH STEEL OR TIMBER SUPPORTS

COLLESS AND O'NEILL PTY LTD
CONSULTING CIVIL AND STRUCTURAL ENGINEERS
84 Woods Street, Darwin, N.T. 0800
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DESIGN DATA SHEET

DARWIN, CYCLONE AREA

DRG No.

APPROVED *[Signature]*

DATE
8-2-96

M/217/6

CERTIFIED *[Signature]* DATE 2-2-96