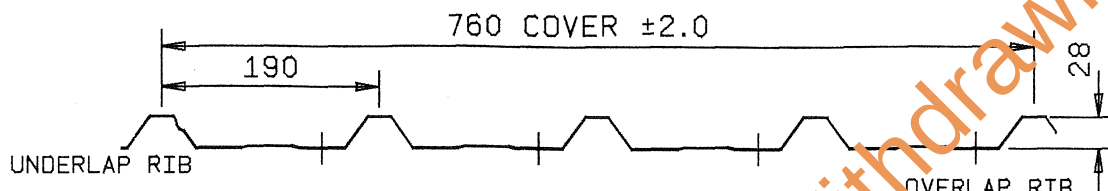




SUPERDEK (CYCLONIC AREAS)

SUPERDEK 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 extensive testing at the University of Adelaide CivilTest Laboratories. The tests were carried out in accordance with the requirements of AS4040.3-1992 Resistance to Wind Pressures for Cyclone Regions.

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. The tables below do not account for racking strength of the wall sheeting.

FIXING RECOMMENDATIONS:

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

Note: Increase screw lengths for fixing over insulation material.

TABLE 1:

DESIGN WIND PRESSURE, P_z , kPa		
SPAN mm	END SPAN	INT. SPAN
900	2.9	3.32
1200	2.2	2.74
1500	1.8	2.20

* Maximum recommended span is 1600mm.

TABLE 2:

WALL SHEETING MAX. ALLOWABLE SPANS				
TERRAIN CATEGORY	K1	P_z kPa	END SPAN mm	INT. SPAN mm
CAT 3	1.0	1.98	1360	1600*
	1.5	2.62	1110	1380
	2.0	2.86	930	1160
CAT 2.5	1.0	2.32	1150	1430
	1.5	2.84	930	1170
	2.0	3.36	810	1010
CAT 2	1.0	2.66	1000	1250
	1.5	3.26	830	1030
	2.0	3.85	700	880

STRATCO (N.T.) PTY LTD
60 Albatross St. WINNELLIE NT. 0820
Ph. (089) 47 2299

STRATCO 0.42mm BMT G550 SUPERDEK FOR
DOMESTIC HOUSING UP TO 7m HIGH
WITH STEEL OR TIMBER SUPPORTS

COLLESS AND O'NEILL PTY LTD
CONSULTING CIVIL AND STRUCTURAL ENGINEERS
84 Woods Street, Darwin, N.T. 0800
Ph (089) 81 9644 ACN 009 622 968

DESIGN DATA SHEET

DARWIN CYCLONE AREA

DRG No.

APPROVED

DATE
27.3.95

M/217/4

CERTIFIED DATE 16-11-94