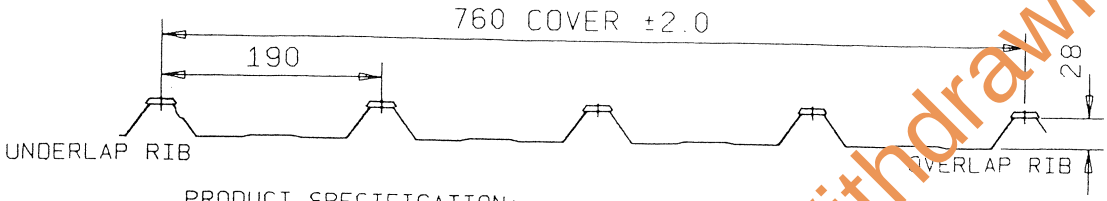
STRATCO

SUPERDEK
(CYCLONIC AREAS)

SUPERDEK ROOFING WITH CYCLONE WASHERS



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 James Cook University Cyclone Testing Station. The tests were carried out in accordance with the requirements of the Northern Territory appendix to the Building Code of Australia, 1993.

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 spans have been limited in some instances by trafficability requirements. 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 Ms=Mt=Mi=1.0 and assuming an internal pressure coefficient of +0.8 and an external pressure coefficient of -0.9. The cladding has not been tested for racking strength and this is therefore to be neglected in design.

FIXING RECOMMENDATIONS:

Into Timber: Type 17 No 14x50mm HWF tek screw with cyclone washer and neoprene EDPM seal.

Into Steel: (up to 5mm thick) No.14x45 HWF self drilling tek screw with cyclone washer and neoprene EDPM seal.

Note: Increase screw lengths for fixing over insulation material.

TABLE 1:

DESIGN WIND PRESSURE, Pz, kPa		
SPAN mm	END SPAN	INT. SPAN
600	8.0	8.9
900	5.3	6.9
1200	3.4	4.9

NOTE. CYCLONE WASHER ASSEMBLY TO BE COMPRISED OF 1mm THICK BASE ZINC COATED STEEL TO A.S.1397-GR350 - Z430 OR AZ 200

TABLE 2:

ROOF SHEETING MAX. ALLOWABLE SPANS				
TERRAIN CATEGORY	K1	Pz kPa	END SPAN mm	INT. SPAN mm
CAT 3	1.0	2.23	1000	1680
	1.5	2.82	1000	1600
	2.0	3.41	1000	1470
CAT 2.5	1.0	2.64	1000	1620
	1.5	3.33	1000	1480
	2.0	4.03	1000	1370
CAT 2	1.0	3.05	1000	1550
	1.5	3.86	1000	1400
	2.0	4.67	1000	1250

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STRATCO 0.42mm BMT G550 SUPERDEK FOR DOMESTIC HOUSING UP TO 6m HIGH WITH STEEL OR TIMBER SUPPORTS

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CERTIFIED _____ DATE 15-4-94

DESIGN DATA SHEET

DARWIN CYCLONE AREA

APPD. _____ DATE 20.4.94

DRG No. M/116/3