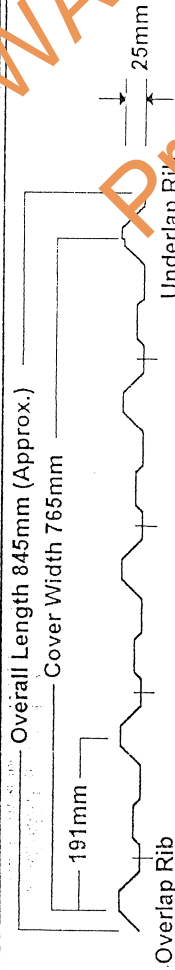


DEEMED TO COMPLY TABLES  
for

COWELLDECK 0.47 TCT PAN FIX NEXT TO EVERY RIB FOR WALL SHEETING ONLY - REGION D

Date:	15-Dec-92
Drawn By:	P.W.

Scale:	N.T.S.
Drawing No.:	DCT-002



Material Specification : 0.47mm TCT ZINCALUME STEEL TO ASI397 - G550 Fy. 550 MPa AZ150

Testing was carried out in accordance with AS4040.3 - 1992, "METHOD OF TESTING SHEET ROOF AND WALL CLADDING - Method 3: RESISTANCE TO WIND PRESSURE FOR CYCLONE REGIONS", with specific modifications in accordance with BCA - NT Specification B.1.2.(3b)

Wind Loads are determined in accordance with AS1170.2 - 1989 "S.A. LOADING CODE PART 2 - WIND LOADS" and the tables have been calculated for permissible stress wind speeds Vp. The Tables below set out the three spans for each Terrain Category and allow for local pressure factor K1 as per Section 3.4.5 of AS1170.2. The racking strength of the Cladding should not be included in the design of a Structure.

Table 1  
PERMISSIBLE STRESS DESIGN WIND PRESSURE (kPa) - from test results

SPAN (mm)	SINGLE SPAN		INTERNAL SPAN	
	SPAN	END SPAN	SPAN	END SPAN
600	7.1	4.4	5.5	3.7*
900	3.9*	2.2	2.7	2.0*
1200	1.4*	0.9*	1.4	0.9*
1800	0.5	0.5	0.5	0.5
2100	0.5	0.5	0.5	0.5

(\* Value Interpolated from Test Results)

Table 2  
REGION D  
V = 57 Cpe = -0.99 Cpi = 0.80

Height (m)	Terrain Cat.	Mz,cat	pz (kPa)	K1	Allowable Span (mm)	
					Single	Internal
6	1 & 2	0.96	2.83	1.0	3.82	900 720 870
6	3 & 4	0.82	1.91	1.0	2.77	1070 1170
10	1 & 2	1.00	2.86	1.0	4.14	850 650 830
10	3 & 4	0.89	2.26	1.0	3.28	970 870 1030

WIND LOAD FACTORS

Ms =	1.00
Mt =	1.00
Mi =	1.00
Kp =	1.00
Ka =	1.00

RECOMMENDED FASTENERS

Timber Supports	
Strength Group	Self-drilling Wood Screw with EDPM Seal
SOFTWOOD	HITek No. 14 - 10x50mm - TYPE 17
HARDWOOD	HITek No. 14 - 10x25mm - TYPE 17
Steel Supports	
Steel Thickness 3mm Max.	Self-drilling & tapping Screw with EDPM Seal
	HITek No. 14 - 10x 20mm

Testing carried out using BUILDEX® (A Division of W.A. DEUTSCHER Pty. Ltd)

Screws

TESTING  
Carried out by CIVILTEST  
Dept. of Civil Engineering  
The University of Adelaide, South Australia

APP J.M. MIEAUST 22/1/93

TABLES  
Prepared by ACER HOSKING OBORN Pty Ltd.  
Consulting Engineers, South Australia

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DESIGN DATA SHEET  
DARWIN CYCLONE AREA

Date:	23/1/93
App'd:	J.M. MIEAUST
Drng. No.:	M/117/4