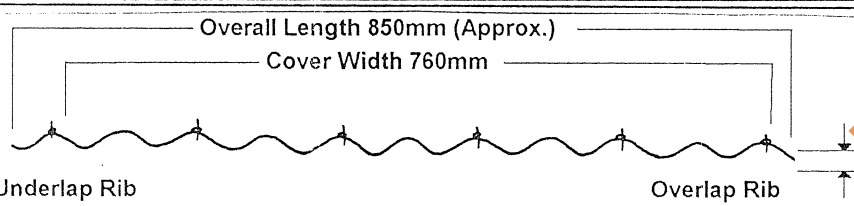
Date:
15-Dec-92
Drawn By:
P.W.
Scale:
N.T.S.
Drawing No.
DCT-004

DEEMED TO COMPLY TABLES
for
CORRUGATED IRON 0.47 TCT CYCLONE FIX AT EVERY SECOND CREST FOR WALL & ROOF SHEETING - REGION D



Material Specification : **0.47mm TCT ZINCALUME STEEL TO AS1397 - G550 Fy. 550 MPa - AZ150**

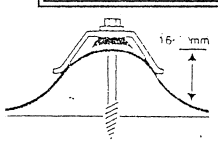
Testing was carried out in accordance with AS4040.3 - 1992 , "METHOD OF TESTING SHEET ROOF AND WALL CLADDING - Method 3: RESISTANCE TO WIND PRESSURE FOR CYCLONE REGIONS", with specific modifications in accordance with BCA - NT Specification B1.2.2(b)

Wind Loads are determined in accordance with AS1170.2 - 1989 "S.A.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 K_l 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.

Testing carried out using BUILDEX® (A Division of W.A.DEUTSHER Ptv. Ltd.) Screws & Cyclone Washers ♦ Refer Deemed to Comply Drawing No. M/115/3 - Dated 04/02/91

RECOMMENDED FASTENERS	
Timber Supports	
Strength Group	Self-drilling Wood Screw with Cyclone Assembly
SOFTWOOD	HiTek No. 14 - 10x65mm - TYPE 17
HARDWOOD	HiTek No. 14 - 10x50mm - TYPE 17
Steel Supports	
Steel Thickness	Self-drilling & tapping Screw with Cyclone Assembly
3mm Max.	HiTek No. 14 - 10x42mm



WIND LOAD FACTORS	
Ms = 1.00	Kp = 1.00
Mt = 1.00	Ka = 1.00
Mi = 1.00	

Table 1

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

SPAN (mm)	SINGLE SPAN	END SPAN	INTERNAL SPAN
600	12.0	6.0	7.5
900	5.4 *	4.0 *	5.2 *
1200	3.0	2.1	3.7
1500	1.2 *	1.1 *	2.4 *
1800	0.6	0.6	1.4
2100	-	-	0.9

*(* Value Interpolated from Test Results)*

Table 2 REGION D ROOF CLADDING — Vp = 69, Cpe = -0.90, Cpi = 0.80

Height (m)	Terrain Cat.	Mz,cat	qz (kPa)	Kl	pz (kPa)	Allowable Span (mm) Single	End	Internal
6	1 & 2	0.96	2.63	1.0	4.48	700 **	800	1050
				1.5	5.66	700 **	650	800
				2.0	6.84	700 **	450	650
6	3 & 4	0.82	1.91	1.0	3.25	700 **	900 **	1200 **
				1.5	4.11	700 **	850	1100
				2.0	4.97	700 **	750	950
10	1 & 2	1.00	2.86	1.0	4.86	700 **	750	950
				1.5	6.14	700 **	570	750
				2.0	7.43	700 **	400	600
10	3 & 4	0.89	2.26	1.0	3.85	700 **	900	1150
				1.5	4.86	700 **	750	950
				2.0	5.88	700 **	600	800

** SPAN LIMITED BY CONCENTRATED LIVE LOADS

Table 3 REGION D WALL CLADDING — Vp = 69, Cpe = -0.65, Cpi = 0.80

Height (m)	Terrain Cat.	Mz,cat	qz (kPa)	Kl	pz (kPa)	Allowable Span (mm) Single	End	Internal
6	1 & 2	0.96	2.63	1.0	3.82	1050	900	1150
				1.5	4.67	950	800	1000
				2.0	5.53	900	650	850
6	3 & 4	0.82	1.91	1.0	2.77	1200	1070	1400
				1.5	3.36	1100	970	1250
				2.0	4.01	1050	900	1130
10	1 & 2	1.00	2.86	1.0	4.14	1050	850	1100
				1.5	5.07	950	750	950
				2.0	6.00	850	600	770
10	3 & 4	0.89	2.26	1.0	3.28	1100	970	1250
				1.5	4.02	1050	900	1130
				2.0	4.75	970	770	970

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

APP 22/1/93
MIE AUST

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

Cowells
A.C.N. 007 869 776
BUILDING PRODUCTS GROUP
(A Member of the Email Group of Companies)
13 - 27 Martin Avenue, GILLMAN S.A. 5013
P.O. Box 232 PORT ADELAIDE S.A. 5015
Phone: (08) 47 5055 - Fax: (08) 47 7403 or (08) 341 1089

DESIGN DATA SHEET
DARWIN CYLONE AREA

Date : 2/3/93
App'd :
Drg. No. : M/117/2