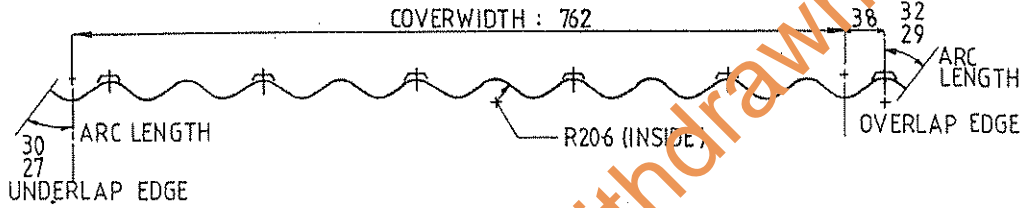


CUSTOM ORB FOR WALLING WITH CYCLONE WASHERS



MATERIAL SPECIFICATION: 0.53 mm TCT ZINCALUME STEEL TO AS 1397 - G550 - AZ150

TABLE 1 IS BASED ON CYCLIC TEST CRITERIA AS SPECIFIED IN N.B.T.C. TR 440. THE ALLOWABLE SPANS GIVEN IN TABLES 2 AND 3 HAVE BEEN OBTAINED BY LINEAR INTERPOLATION OF P_z IN TABLE 1, SUBJECT TO MAXIMUM SPAN LIMITATION GOVERNED BY CONCENTRATED LOAD CRITERIA. OVERHANGS TO BE 200 mm MAXIMUM FOR ROOFS AND 300 mm MAXIMUM FOR WALLS.

WIND LOADS ARE DETERMINED IN ACCORDANCE WITH AS 1170 PART 2 1983 "WIND FORCES LOADING CODE" FOR A REGIONAL BASIC WIND VELOCITY 55 M/S, CYCLONIC AREA MULTIPLIER OF 1.15 AND ASSUMING AN INTERNAL PRESSURE COEFFICIENT OF + 0.8 AND EXTERNAL PRESSURE COEFFICIENT OF - 0.9 (FOR ROOFS), OR - 0.6 (FOR WALLS). FOR TABLES 2 & 3 THE THREE SPANS FOR EACH TERRAIN CATEGORY ALLOW FOR LOCAL PRESSURE FACTOR K_1 AS PER PARAGRAPH B.1.5 OF AS 1170 PART 2 1983. RACKING STRENGTH PROVIDED BY THE CLADDING HAS NOT BEEN TESTED AND SHOULD NOT BE ALLOWED FOR IN THE DESIGN OF THE STRUCTURE.

RECOMMENDED FASTENERS

Timber Supports

Strength Group *	Self-drilling wood screw with EDPM seal
Hardwood J1 - J3	Type 17 Hex Hd. No. 14-10x50 (Lysaght No. THS 1450)
Softwood J4	Type 17 Hex Hd. No. 14-10x65 (Lysaght No. THS 1465)

Steel Supports

Steel Thickness	Self-drilling & tapping screw with EDPM seal
Up to 2.5 mm.	No. 14-10x42 Hex Hd. (Lysaght No. SHS 1442)
2.5 - 3.0 mm.	No. 14-20x45 Hex Hd. (Lysaght No. SHS 1445)

When fixing over insulation blankets increase screw length to maintain fastener penetration in support.

TABLE 1: DESIGN WIND PRESSURE, P_z , kPa

SPAN mm	0.53 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
900	8.8	6.6	8.3
1200	5.0	3.0	6.2
1500	2.5	1.5	3.6
1800	1.2	1.0	1.8
2100	-	0.6	1.3
2400	-	-	0.9
2700	-	-	0.6

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL MULTI-PLIER	PRESS. FACTOR K_1	P_z kPa	0.53 mm	
				END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.33	1090	1410	
	1.03	1.5	5.48	990	1280
	2.0	6.62	900	1140	
CAT 2	1.0	3.61	1150	1500	
	.94	1.5	4.56	1070	1390
	2.0	5.51	990	1280	
CAT 2.5	1.0	2.61	1200	1600	
	.80	1.5	3.30	1170	1550
	2.0	3.99	1110	1450	
CAT 3	1.0	1.78	1200	1600	
	.66	1.5	2.25	1200	1600
	2.0	2.72	1200	1600	

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	P_z kPa	0.53 mm		
		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.57	1370	1150	1500
	1.03	4.33	1280	1090
	5.09	1190	1020	1320
CAT 2	2.97	1440	1200	1600
	.94	3.61	1360	1150
	4.24	1290	1090	1420
CAT 2.5	2.15	1500	1370	1740
	.80	2.61	1480	1270
	3.07	1430	1190	1580
CAT 3	1.46	1500	1520	2000
	.66	1.78	1500	1440
	2.09	1500	1380	1750

* For strength groups refer AS 1720 - 1975

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If it is intended to use uncoated, galvanized, prime coated or Colorbond building products within 1 kilometre of salt marine locations, or in severe industrial environments, please contact your nearest Lysaght Building Industries Sales Office for free specialised advice.

Performance
Company products will perform as specified if fixed in accordance with the recommendations contained in this drawing.

SCALE: N.T.S.
DATE: 19-2-88
DRAWN: T.G.
AUTH:

Engineering and Development
Lysaght Building Industries
A Division of John Lysaght (Australia) Limited (Incorporated in NSW)
CYCLONIC FIXING DATA
CUSTOM ORB (0.53mm TCT) WITH
CYCLONE WASHERS. UP TO 6 m.

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.53 mm CUSTOM ORB WITH CYCLONE WASHERS IN THE DARWIN AREA BUILDING HEIGHT UP TO 6 m	
Address: Cnr. Coonawarra and Bombing Roads, Winnellie. N.T. Phone: (089) 84 3311		DESIGN DATA SHEET	
CERTIFIED: <i>[Signature]</i> M.I.E. Aust	NORTHERN TERRITORY CYCLONIC AREAS APPROVED	DRAWING NO.	
DATE: 19/2/88	DATE: <i>[Signature]</i> 20/4/88	<i>M/215/1</i>	
LYSAGHT DRAWING NO: 78390			

78390
Lysaght BUILDING INDUSTRIES

WP NO: C05306W

REFERENCE

REVISIONS