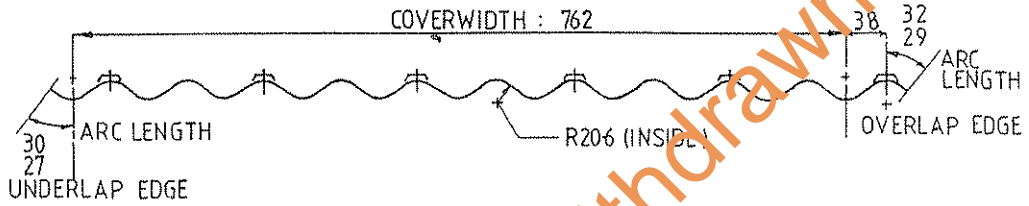


CUSTOM ORB FOR WALLING WITH CYCLONE WASHERS

WALLING



MATERIAL SPECIFICATION: 0.47 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 B1.5 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	Self-drilling wood screw with EDPM seal
Strength Group *	
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	Self-drilling & tapping screw with EDPM seal
Steel Thickness	
Up to 2.5 mm	No. 14-10x42 Hex Hd. (Lysaght No. SHS 1442)
2.5 - 5.0 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	0.47 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
600	12.0	6.0	7.5
900	5.3	4.0	5.0
1200	3.0	2.1	3.7
1500	1.2	1.1	2.4
1800	0.6	0.6	1.4
2100	-	-	0.9
2400	-	-	0.6

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL PRESS. MULTIPLIER	PRESS. P_z , kPa	0.47 mm		
			END SPAN	INT. SPAN	
CAT 1	1.0	4.33	850	1050	
	1.03	1.5	5.48	680	840
	2.0	6.62	540	700	
CAT 2	1.0	3.61	900	1200	
	.94	1.5	4.56	810	1000
	2.0	5.51	670	840	
CAT 2.5	1.0	2.61	900	1200	
	.80	1.5	3.30	900	1200
	2.0	3.99	900	1130	
CAT 3	1.0	1.78	900	1200	
	1.5	2.25	900	1200	
	2.0	2.72	900	1200	

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	MULTIPLIER	P_z , kPa	0.47 mm		
			SINGLE SPAN	END SPAN	INT. SPAN
CAT 1	1.0	3.57	1120	970	1230
	1.03	4.33	1020	850	1050
	5.09	920	730	890	
CAT 2	1.0	2.97	1200	1060	1370
	.94	3.61	1120	960	1220
	4.24	1040	860	1070	
CAT 2.5	1.0	2.15	1200	1190	1570
	.80	2.61	1200	1120	1450
	3.07	1190	1040	1340	
CAT 3	1.0	1.46	1200	1350	1780
	.66	1.78	1200	1290	1680
	2.09	1200	1200	1590	

* For strength groups refer AS 1720 - 1975

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Sheet Steel Building Products Under Adverse Conditions
It is intended to use uncoated, galvanised, 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

Engineering and Development
Lysaght Building Industries
A Division of John Lysaght (Australia) Limited (INCORPORATED IN NSW)

DRAWN: T.G.
AUTH:

CYCLONIC FIXING DATA
CUSTOM ORB (0.47 mm TCT) WITH
CYCLONE WASHERS. UP TO 6 m.

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.47 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: <i>[Signature]</i> M.I.E. Aust	DRAWING NO. M/215/5
DATE: 19/2/88	APPROVED: <i>[Signature]</i>	DATE: 20/4/88	
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REFERENCES

REVISIONS

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