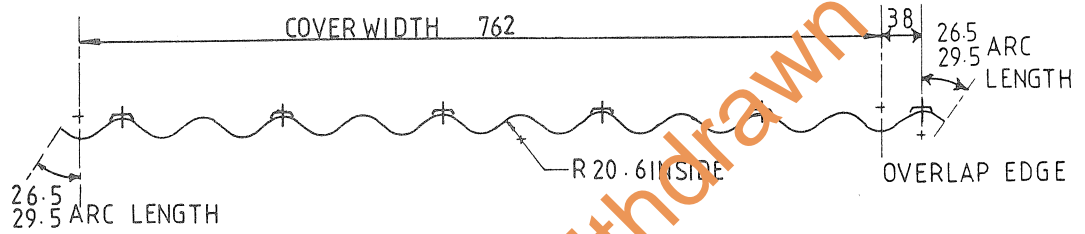


CUSTOM BLUE ORB FOR ROOFING & WALLING WITH CYCLONE WASHERS



MATERIAL SPECIFICATION: 0.66 mm TCT ZINCALUME STEEL TO AS 1397 - G300 - AZ200

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 'S PER PARAGRAPH 5.1.5 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	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 to 3.0 mm	No. 14-20x42 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	0.66 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
600	11.3	7.5	9.4
900	5.0	5.0	6.2
1200	1.5	2.7	4.5
1500	0.6	1.4	3.0
1800	-	0.8	1.7
2100	-	0.5	1.1
2400	-	-	0.7

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL MULTI-PLIER	PRESS. P_z kPa	0.66 mm	
	FACTOR K_1		END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.85	900	1140
	1.09	1.5	6.13	760 910
	2.0	7.41	610	780
CAT 2	1.0	4.08	900	1200
	1.00	1.5	5.16	880 1080
	2.0	6.24	750	890
CAT 2.5	1.0	2.95	900	1200
	.85	1.5	3.73	900 1200
	2.0	4.51	900	1200
CAT 3	1.0	2.00	900	1200
	.70	1.5	2.53	900 1200
	2.0	3.06	900	1200

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	PRESS. P_z kPa	0.66 mm		
MULTI-PLIER		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.99	980	1030	1300
	1.09	4.85	910	920 1140
	5.70	860	810	980
CAT 2	3.36	1040	1110	1420
	1.00	4.08	980	1020 1280
	4.80	910	920	1140
CAT 2.5	2.43	1120	1260	1630
	.85	2.95	1070	1160 1510
	3.47	1030	1100	1400
CAT 3	1.65	1180	1350	1800
	.70	2.00	1150	1350 1730
	2.35	1120	1280	1650

* For strength groups refer AS 1720 - 1975

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.66 mm CUSTOM BLUE ORB WITH CYCLONE WASHERS IN THE DARWIN AREA BUILDING HEIGHT UP TO 10 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	
DATE: 19/2/88		APPROVED: <i>[Signature]</i> MIE Aust	
LYSAGHT DRAWING NO: 78396		DRAWING NO. M/101/6	

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Sheet Steel Building Products Under Adverse Conditions

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 BLUE ORB (0.66 mm TCT) WITH CYCLONE WASHERS UP TO 10 m.

78396

LYSAGHT BUILDING INDUSTRIES

REFERENCES

WP NO: CB06610W

REVISIONS