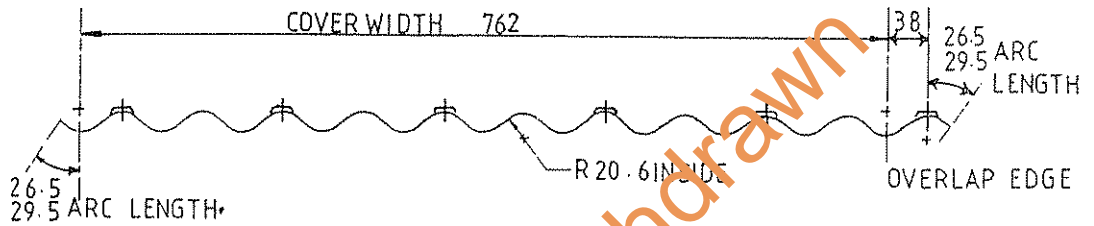


CUSTOM BLUE ORB FOR WITH CYCLONE WASHERS

WALLING



MATERIAL SPECIFICATION: 0.66 mm TCT ZINCALUME STEEL TO AS 1297 - 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 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	
Strength Group *	Self-drilling wood screw with EDPM seal
Hardwood J1 - J3	Typ: 17 Hex Hd. No. 14-10x50 (Lysaght No. THS 1450)
Softwood J4	Typ: 17 Hex Hd. No. 14-10x65 (Lysaght No. THS 1465)

Steel Supports	
Steel Thickness	Self-drilling & tapping screw with EDPM seal
Up to 2.0 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 markets 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. FACTOR K_1	P_z kPa	0.66 mm	
				END SPAN mm	INT. SPAN mm
CAT 1	1.09	1.0	4.85	900	1140
			1.5	760	910
			2.0	610	780
CAT 2	1.00	1.5	4.08	900	1200
			1.5	880	1080
			2.0	750	890
CAT 2.5	.85	1.0	2.95	900	1200
			1.5	900	1200
			2.0	900	1200
CAT 3	.70	1.0	2.00	900	1200
			1.5	900	1200
			2.0	900	1200

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	P_z kPa	0.66 mm		
		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	1.09	3.99	980	1300
		4.85	910	1140
		5.70	860	980
CAT 2	1.00	3.36	1040	1420
		4.08	980	1280
		4.80	910	1140
CAT 2.5	.85	2.43	1120	1630
		2.95	1070	1510
		3.47	1030	1400
CAT 3	.70	1.65	1180	1800
		2.00	1150	1730
		2.35	1120	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> M.I.E. Aust.	
LYSAGHT DRAWING NO: 78396		DATE: 20/4/88	
		DRAWING NO. M/20/10	

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If it is intended to use uncoated, galvanised, prime coated or Colbond 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

WP NO: C806610W

REFERENCES

REVISIONS