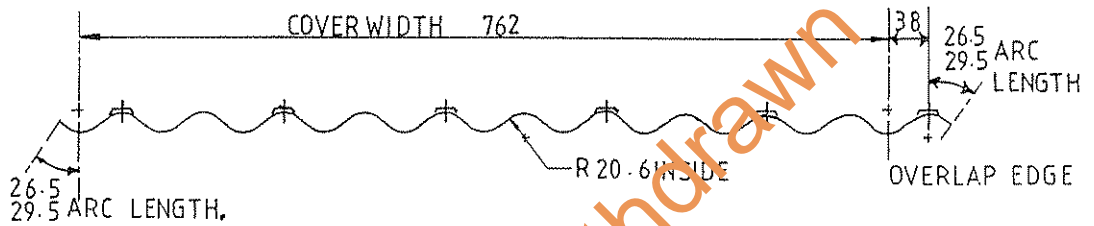


# CUSTOM BLUE ORB FOR WITH CYCLONE WASHERS

# WALLING



MATERIAL SPECIFICATION: 0.86 mm TCT ZINCALUME STEEL TO AS 1007 - G300 - A2200

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 4.5 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. 14-10x5 (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 2.5 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 mm	0.86 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
900	8.8	7.3	9.1
1200	4.9	4.3	6.8
1500	3.1	2.8	4.5
1800	1.0	1.6	3.5
2100	0.5	1.0	2.2
2400	-	0.6	1.4
2700	-	-	1.0
3000	-	-	0.7

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL PRESS. FACTOR $K_1$	$P_z$ kPa	0.86 mm		
MULTI-PLIER			END SPAN mm	INT. SPAN mm	
CAT 1	1.0	4.33	1190	1550	
	1.03	1.5	5.48	1080	1370
		2.0	6.62	960	1220
CAT 2	1.0	3.61	1340	1770	
	.94	1.5	4.56	1170	1490
		2.0	5.51	1080	1360
CAT 2.5	1.0	2.61	1540	2000	
	.80	1.5	3.30	1400	1840
		2.0	3.99	1260	1650
CAT 3	1.0	1.78	1750	2260	
	.66	1.5	2.25	1630	2090
		2.0	2.72	1520	1980

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	$P_z$ kPa	0.86 mm			
MULTI-PLIER		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm	
CAT 1	3.57	1420	1340	1780	
	1.03	4.33	1290	1190	1550
		5.09	1180	1120	1420
CAT 2	2.97	1520	1460	1920	
	.94	3.61	1410	1340	1770
		4.24	1310	1210	1570
CAT 2.5	2.15	1630	1660	2120	
	.80	2.61	1570	1540	2000
		3.07	1500	1440	1900
CAT 3	1.46	1730	1870	2370	
	.66	1.78	1690	1750	2260
		2.09	1640	1670	2140

\* For strength groups refer AS 1720 - 1975

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.86 mm CUSTOM BLUE 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	DRAWING NO.	
DATE: 19/2/88	APPROVED: <i>[Signature]</i> M.I.E. Aust	M/215/11	
LYSAGHT DRAWING NO: 78400		DATE: 20/4/88	

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DATE	19-2-88
DRAWN	T.G.
AUTH	

Engineering and Development  
Lysaght Building Industries  
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CYCLONIC FIXING DATA  
CUSTOM BLUE ORB (0.86mm TCT) WITH CYCLONE WASHERS UP TO 6 m.

**78400**

WP NO: CB08606W

REFERENCES

REVISIONS