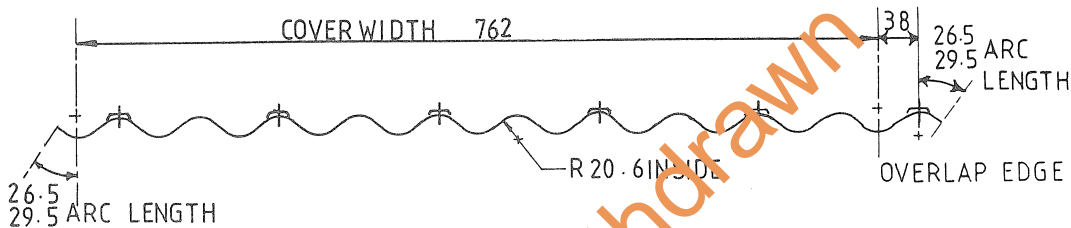


# CUSTOM BLUE ORB FOR ROOFING & WALLING WITH CYCLONE WASHERS



MATERIAL SPECIFICATION: 0.86 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  $K_1$  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	Typ	Type 17 Hex Hd. No. 14-10x50 (Lysaght No. THS 1450)
Softwood J4	Type	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 - 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. MULTIPLIER	$P_z$ kPa	0.86 mm	
			END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.33	1190	1550
	1.03	1.5	5.48	1080
	2.0	6.62	960	1220
CAT 2	1.0	3.61	1340	1770
	.94	1.5	4.56	1170
	2.0	5.51	1080	1360
CAT 2.5	1.0	2.61	1540	2000
	.80	1.5	3.30	1400
	2.0	3.99	1260	1650
CAT 3	1.0	1.78	1750	2260
	.66	1.5	2.25	1630
	2.0	2.72	1520	1980

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

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

\* For strength groups refer AS 1720 - 1975

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Sheet Steel Building Products Under Adverse Conditions

If 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
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 (0.86mm TCT) WITH  
CYCLONE WASHERS UP TO 6 m.

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	DATE: 19/2/88	NORTHERN TERRITORY CYCLONIC AREAS APPROVED: <i>[Signature]</i> M.I.E. Aust	DRAWING NO. M/101/7
LYSAGHT DRAWING NO: 78400		DATE: 20/4/88	

78400

LYSAGHT BUILDING INDUSTRIES

WP NO: CB08606W

REFERENCES

REVISIONS