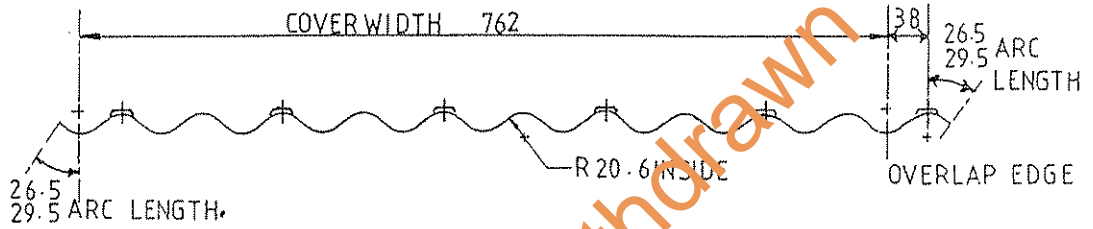


CUSTOM BLUE ORB FOR WITH CYCLONE WASHERS

WALLING



MATERIAL SPECIFICATION: 0.86 mm TCT ZINCALUME STEEL TO AS 1207 - 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 2.5 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 * | Fastener |
|------------------|------------------|---|
| Hardwood J1 - J3 | Typ. 17 | Hex Hd. No. 14-10x57 (Lysaght No. THS 1450) |
| Softwood J4 | Type 17 | Hex Hd. No. 14-10x65 (Lysaght No. THS 1465) |

| Steel Supports | Steel Thickness | Fastener |
|----------------|-----------------|--------------------------------|
| 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 | 4.6 |
| 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 | |
|--------------|---------------------------|-----------|-------------|--------------|
| | | | END SPAN mm | INT. SPAN mm |
| CAT 1 | 1.0 | 4.85 | 1140 | 1450 |
| | 1.09 | 1.5 | 6.13 | 1010 |
| | 2.0 | 7.41 | 890 | 1120 |
| CAT 2 | 1.0 | 4.08 | 1240 | 1620 |
| | 1.00 | 1.5 | 5.16 | 1110 |
| | 2.0 | 6.24 | 1000 | 1270 |
| CAT 2.5 | 1.0 | 2.95 | 1470 | 1920 |
| | .85 | 1.5 | 3.73 | 1310 |
| | 2.0 | 4.51 | 1180 | 1500 |
| CAT 3 | 1.0 | 2.00 | 1700 | 2170 |
| | .70 | 1.5 | 2.53 | 1560 |
| | 2.0 | 3.06 | 1450 | 1900 |

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 | 3.99 | 1350 | 1260 | 1650 |
| | 1.09 | 4.85 | 1210 | 1140 |
| | 5.70 | 1140 | 1060 | 1340 |
| CAT 2 | 3.36 | 1450 | 1380 | 1830 |
| | 1.00 | 4.08 | 1330 | 1240 |
| | 4.80 | 1210 | 1150 | 1460 |
| CAT 2.5 | 2.43 | 1590 | 1590 | 2040 |
| | .85 | 2.95 | 1470 | 1470 |
| | 3.47 | 1440 | 1360 | 1800 |
| CAT 3 | 1.65 | 1700 | 1790 | 2300 |
| | .70 | 2.00 | 1650 | 1700 |
| | 2.35 | 1600 | 1610 | 2060 |

* 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 10 m | |
| Address: Cnr. Coonawarra and Bombing Roads, Winnellie. N.T. Phone: (089) 84 3311 | | DESIGN DATA SHEET | |
| CERTIFIED: <i>K. May</i> M.I.E. Aust | DATE: 19/2/88 | NORTHERN TERRITORY CYCLONIC AREAS APPROVED: <i>Y. Sandana</i> M.I.E. Aust | DRAWING NO. M/215/12 |
| LYSAGHT DRAWING NO: 78401 | | DATE: 20/4/88 | |

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If it is intended to use uncoated, galvanneal, 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.

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 AUSTRALIA)
CYCLONIC FIXING DATA
CUSTOM BLUE ORB (0.86 mm TCT) WITH
CYCLONE WASHERS UP TO 10 m.

78401

WP NO: CB08610W

REFERENCE:

REVISIONS