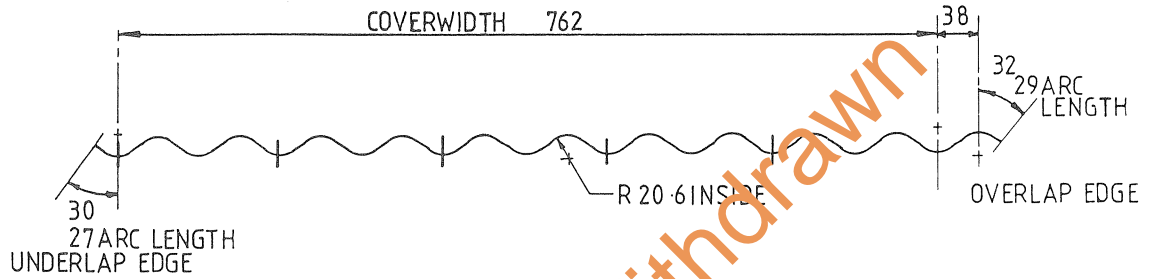


CUSTOM ORB FOR WALLS (VALLEY FASTENED)



MATERIAL SPECIFICATION: 0.47 mm TCT ZINCALUME STEEL TO AS 1397 - G550 - AZ150

TABLE 1 IS BASED ON CYCLIC TEST CRITERIA AS SPECIFIED IN N.B.T.C. TR 440. THE ALLOWABLE SPANS GIVEN IN TABLE 2 AND HAVE BEEN OBTAINED BY LINEAR INTERPOLATION OF P_z IN TABLE 1. OVERHANGS TO BE 200 mm MAXIMUM.

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 - 0.6. FOR TABLE 2 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. RESISTANCE 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	Type 17 Hex Hd. No.14-10x25 (Lysaght No. THS 1425)
Softwood J4	Type 17 Hex Hd. No.14-10x50 (Lysaght No. THS 1450)

Steel Supports	
Steel Thickness	Self-drilling & topping screw with EDPM seal
Up to 2.5 mm.	No. 14-10x20 Hex Hd. (Lysaght No. SHS 1420)
2.5 - 5.0 mm.	No. 14-20x22 Hex Hd. (Lysaght No. SHS 1422)

When fixing over insulation blankets, increase screw length to maintain fastener penetration in support.

TABLE 1: DESIGN WIND PRESSURE, P_z , kPa

SPAN mm	0.47 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
600	10.0	4.8	6.8
900	4.4	3.2	4.0
1200	2.5	1.8	3.0
1500	1.1	1.1	2.3
1800	0.5	0.6	1.4
2100	-	-	0.9
2400	-	-	0.6

TABLE 2: WALL SHEETING MAXIMUM ALLOWABLE SPANS, HEIGHT UP TO 6 m

TERRAIN CAT.	LOCAL PRESS. MULTIPLIER	LOCAL P_z kPa	0.47 mm			
			SINGLE SPAN mm	END SPAN mm	INT. SPAN mm	
CAT 1	1.0	3.57	1030	830	1030	
	1.03	1.5	4.33	910	690	860
	2.0	5.09	860	580	780	
CAT 2	1.0	2.97	1120	950	1210	
	.94	1.5	3.61	1020	820	1020
	2.0	4.24	920	700	870	
CAT 2.5	1.0	2.15	1200	1120	1550	
	.80	1.5	2.61	1180	1020	1360
	2.0	3.07	1110	920	1180	
CAT 3	1.0	1.46	1200	1340	1780	
	.66	1.5	1.78	1200	1210	1670
	2.0	2.09	1200	1130	1570	

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS, HEIGHT UP TO 10 m

TERRAIN CAT.	LOCAL PRESS. MULTIPLIER	LOCAL P_z kPa	0.47 mm			
			SINGLE SPAN mm	END SPAN mm	INT. SPAN mm	
CAT 1	1.0	3.99	960	750	900	
	1.09	1.5	4.85	870	590	810
	2.0	5.70	830	540	710	
CAT 2	1.0	3.36	1060	870	1090	
	1.00	1.5	4.08	950	730	890
	2.0	4.80	880	600	810	
CAT 2.5	1.0	2.43	1200	1060	1440	
	.85	1.5	2.95	1130	950	1220
	2.0	3.47	1040	850	1060	
CAT 3	1.0	1.65	1200	1260	1710	
	.70	1.5	2.00	1200	1150	1600
	2.0	2.35	1200	1080	1470	

* For strength groups refer AS 1720-1975

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.47 mm CUSTOM ORB VALLEY FIXED ON WALLS IN THE DARWIN AREA BUILDING HEIGHT UP TO 6 m & 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 APPROVED: <i>[Signature]</i> DATE: 20/4/88	DRAWING NO. <i>M/215/P</i>
DATE: 19/2/88		LYSAGHT DRAWING NO: 78387	

COPYRIGHT: This design and print is the property of John Lysaght (Australia) Limited and must not be used, reproduced or copied, wholly or in part, without written permission from the Company. Supply of this design and print represents a confidential communication between the Company and the recipient.
 Sheet Steel Building Products Under Adverse Conditions
 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.
 Performance
 Company products will perform as specified if fixed in accordance with the recommendations contained in this drawing.
 SCALE: N.T.S.
 DATE: 22-2-88
 DRAWN: T.G.
 AUTH:
 Engineering and Development
 Lysaght Building Industries
 A DIVISION OF JOHN LYSAGHT (AUSTRALIA) LIMITED (INCORPORATED IN NSW)
 CYCLONIC FIXING DATA
 CUSTOM ORB (0.47 mm TCT) VALLEY FASTENED UP TO 6m & 10m
 78387

WP NO: C047V

REFERENCES

REVISIONS