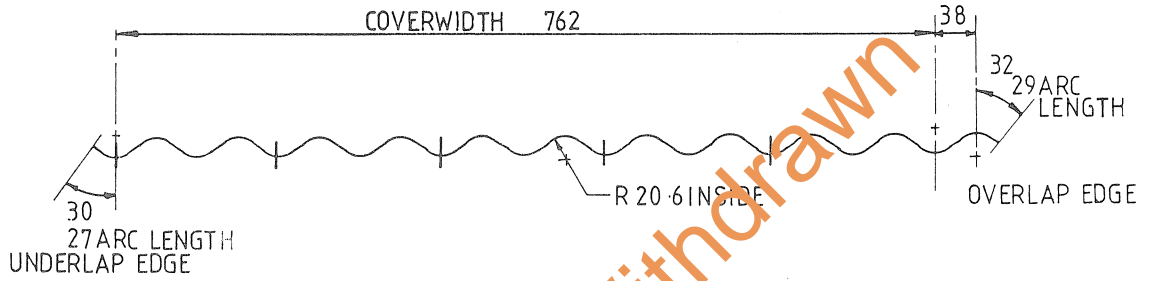


# CUSTOM ORB FOR WALLS (VALLEY FASTENED)



**MATERIAL SPECIFICATION: 0.53 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 TABLES 2 AND 3 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. CRACKING 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 & tapping screw with EDPM seal
Up to 2.5 mm.	No. 14-10x20 Hex Hd. (Lysaght No. SHS 1420)
2.5 - 5.0 mm.	No. 14-20x25 Hex Hd. (Lysaght No. SHS 1422)

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

TABLE 1: DESIGN WIND PRESSURE,  $P_z$  (kPa)

SPAN mm	0.53 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
600	12.0	6.0	7.5
900	5.3	4.0	5.0
1200	3.0	3.0	3.7
1500	0.9	1.5	2.6
1800	-	1.0	1.8
2100	-	0.6	1.3
2400	-	-	0.9
2700	-	-	0.7

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

TERRAIN CAT.	LOCAL PRESS. PLIER	$P_z$ kPa	0.53 mm			
			SINGLE SPAN mm	END SPAN mm	INT. SPAN mm	
CAT 1	1.0	3.57	1120	1030	1230	
	1.03	1.5	4.33	1020	850	1050
	2.0	5.09	920	730	890	
CAT 2	1.0	2.97	1200	1200	1400	
	.94	1.5	3.61	1120	1020	1220
	2.0	4.24	1040	860	1070	
CAT 2.5	1.0	2.15	1320	1370	1670	
	.80	1.5	2.61	1250	1270	1490
	2.0	3.07	1190	1180	1370	
CAT 3	1.0	1.46	1420	1520	2000	
	.66	1.5	1.78	1370	1440	1810
	2.0	2.09	1330	1380	1690	

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

TERRAIN CAT.	LOCAL PRESS. PLIER	$P_z$ kPa	0.53 mm			
			SINGLE SPAN mm	END SPAN mm	INT. SPAN mm	
CAT 1	1.0	3.99	1070	900	1130	
	1.09	1.5	4.85	960	770	930
	2.0	5.70	880	640	810	
CAT 2	1.0	3.36	1150	1090	1290	
	1.00	1.5	4.08	1060	880	1110
	2.0	4.80	960	780	940	
CAT 2.5	1.0	2.43	1280	1310	1560	
	.85	1.5	2.95	1200	1210	1400
	2.0	3.47	1140	1060	1260	
CAT 3	1.0	1.65	1390	1470	1890	
	.70	1.5	2.00	1340	1400	1720
	2.0	2.35	1290	1330	1590	

\* For strength groups refer AS 1720 - 1975

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 Performance  
 Company products will perform as specified if fixed in accordance with the recommendations contained in this drawing.

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

**Engineering and Development**  
 Lysaght Building Industries  
 A DIVISION OF JOHN LISAGHT (AUSTRALIA) LIMITED (INCORPORATED IN NSW)  
 CYCLONIC FIXING DATA  
 CUSTOM ORB (0.53 mm TCT) VALLEY FASTENED. UP TO 6 m & 10 m

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.53 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	DRAWING NO.	
DATE: 19/2/88	APPROVED: <i>[Signature]</i> M.I.E. Aust	M/215/2	
LYSAGHT DRAWING NO: 78392		DATE: 20/2/88	

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