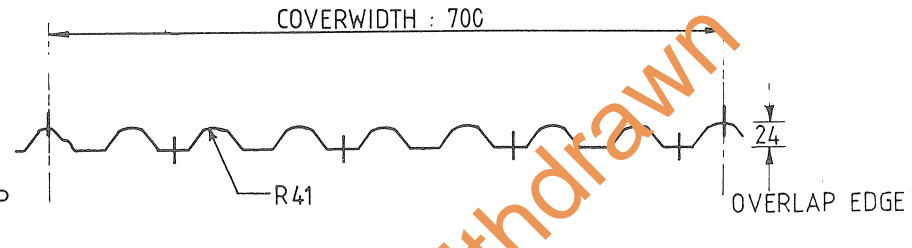


# SPANDEK HI-TEN 700 FOR WALLS VALLEY FASTENED



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 TABLES 2 AND 3 HAVE BEEN OBTAINED BY LINEAR INTERPOLATION OF  $P_z$  IN TABLE 1. OVERHANGS TO BE 300 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 WALLS). FOR TABLES 2 & 3 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. PULLING 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
Hardwood J1 - J3	Type 17 Wafer Hd.No.14-10x25 (Lysaght No.TWS 1425)
Softwood J4	Type 17 Wafer Hd.No.14-12x50 (Lysaght No.TWS 1450)

Steel Supports	
Steel Thickness	Self-drilling & tapping screw
Up to 2.5 mm.	Hex Hd. No. 14-10x20 (Lysaght No. SHS 1420)
2.5 - 5.0 mm.	Hex Hd. No. 14-20x22 (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
300	15.0	6.0	7.5
600	6.0	3.0	3.7
900	2.7	2.0	2.5
1200	1.5	1.5	1.9
1500	1.0	1.2	1.5
1800	0.7	1.0	1.2
2100	0.5	0.8	1.1
2400	-	0.6	0.9
2700	-	-	0.8

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

TERRAIN CAT.	LOCAL PRESS. MULTIPLIER	$P_z$ kPa	0.47 mm		
			SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	1.0	3.57	820	540	630
	1.03	1.5 4.33	750	460	550
	2.0	5.09	680	390	490
CAT 2	1.0	2.97	870	610	780
	.94	1.5 3.61	810	540	620
	2.0	4.24	760	470	550
CAT 2.5	1.0	2.15	1030	850	1070
	.80	1.5 2.61	920	710	870
	2.0	3.07	860	590	750
CAT 3	1.0	1.46	1220	1230	1530
	.66	1.5 1.78	1130	1030	1290
	2.0	2.09	1050	870	1100

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

TERRAIN CAT.	LOCAL PRESS. MULTIPLIER	$P_z$ kPa	0.47 mm		
			SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	1.0	3.99	780	500	570
	1.09	1.5 4.85	700	410	510
	2.0	5.70	620	330	440
CAT 2	1.0	3.36	840	560	680
	1.00	1.5 4.08	770	490	570
	2.0	4.80	710	420	510
CAT 2.5	1.0	2.43	970	770	930
	.85	1.5 2.95	870	610	780
	2.0	3.47	830	550	650
CAT 3	1.0	1.65	1160	1110	1390
	.70	1.5 2.00	1070	900	1150
	2.0	2.35	980	790	970

\* 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	22-2-88
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AUTH	

Engineering and Development  
 Lysaght Building Industries  
 A DIVISION OF JOHN LYSAGHT (AUSTRALIA) LIMITED (INCORPORATED IN NSW)  
 CYCLONIC FIXING DATA  
 SPANDEK HI-TEN 700  
 0.47mm TCT UP TO 6m & 10m

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.47 mm SPANDEK HI-TEN 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.	DATE: 19/2/88	NORTHERN TERRITORY CYCLONIC AREAS APPROVED: <i>[Signature]</i> 11/8 Aust	DRAWING NO. <i>M/215/13</i>
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