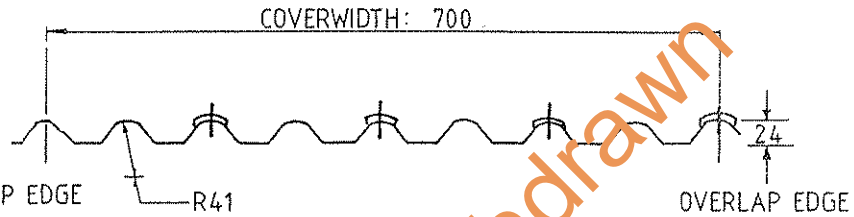


# SPANDEK HI-TEN 700 FOR WITH CYCLONE WASHERS

WALLING



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, 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 B1.3 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	J1 - J3	Type 17 Hex Hd. No. 14-10x65 (Lysaght No. THS 1465)
Softwood	J4	Type 17 Hex Hd. No. 14-10x75 (Lysaght No. THS 1475)

Steel Supports	Steel Thickness	Fastener
Up to 2.5 mm	2.5 - 3.0 mm	No. 14-10x50 Hex Hd. (Lysaght No. SHS 1450C)
2.5 - 3.0 mm	3.0 - 4.0 mm	No. 14-20x50 Hex Hd. (Lysaght No. SHS 1450)

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

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

SPAN mm	0.53 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
600	6.0	9.5	11.9
900	4.0	6.3	7.9
1200	2.4	3.7	5.9
1500	1.5	2.6	3.9
1800	1.1	1.5	3.3
2100	0.8	0.9	2.1
2400	0.6	0.6	1.4
2700	-	-	1.0
3000	-	-	0.7

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT. MULTIPLIER	LOCAL PRESS. FACTOR $K_1$	$P_z$ kPa	0.53 mm	
			END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.33	1120	1430
	1.03	1.5	990	1260
	2.0	6.62	870	1090
CAT 2	1.0	3.61	1200	1640
	.94	1.5	1100	1400
CAT 2.5	2.0	5.51	990	1250
	1.0	2.61	1490	1970
	.80	1.5	1310	1800
CAT 3	2.0	3.99	1160	1480
	1.0	1.78	1720	2240
	.66	1.5	1590	2060
	2.0	2.72	1460	1940

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT. MULTIPLIER	$P_z$ kPa	0.53 mm		
		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.57	980	1230	1660
	1.03	4.33	850	1120
	5.09	730	1040	1320
CAT 2	2.97	1090	1400	1880
	.94	3.61	970	1220
CAT 2.5	4.24	860	1130	1450
	2.15	1280	1620	2080
	.80	2.61	1160	1490
CAT 3	3.07	1070	1370	1850
	1.46	1520	1820	2370
	.66	1.78	1400	1720
	2.09	1300	1640	2100

\* For strength groups refer AS 1720-1975

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.53 mm SPANDEK HI-TEN 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/215/17
LYSAGHT DRAWING NO: 78380		DATE: 20/4/88	

WP NO: SD5306W

REFERENCES

REVISIONS

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

Engineering and Development

Lysaght Building Industries  
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CYCLONIC FIXING DATA

SPANDEK HI-TEN 700(0.53 mm TCT) WITH CYCLONE WASHERS UP TO 6 m

78380