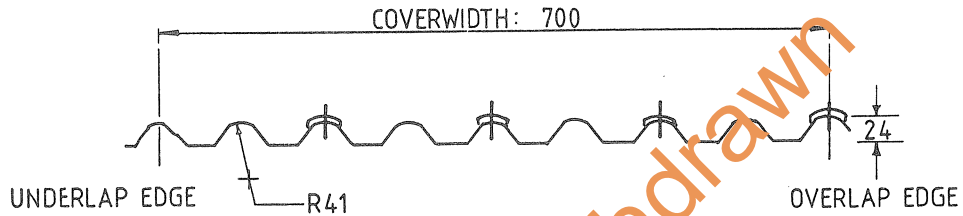


# SPANDEK HI-TEN 700 FOR ROOFING & WALLING WITH CYCLONE WASHERS



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, 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 WIND SPEEDS FOR EACH TERRAIN CATEGORY ALLOW FOR LOCAL PRESSURE FACTOR  $K_1$  AS PER PARAGRAPH 1.5 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	Self-drilling wood screw with EDPM seal
Strength Group *	
Hardwood 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 Support	Self-drilling tapping screw with EDPM seal
Steel Thickness	
Up to 2.5 mm.	No. 14-10x50 Hex Hd. (Lysaght No. SHS 1450C)
2.5 - 5.0 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,  $P_z$ , Pa

SPAN mm	0.47 mm		
	SINGLE SPAN	END	INT. SPAN
900	7.6	5.7	7.2
1200	3.6	2.8	5.4
1500	2.5	2.3	3.5
1800	1.7	1.3	2.5
2100	0.9	0.8	1.8
2400	0.5	0.6	1.2
2700	-	-	0.9
3000	-	-	0.6

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT. MULTIPLIER	LOCAL PRESS. FACTOR $K_1$	$P_z$ kPa	0.47 mm	
			END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.85	990	1280
	1.09	1.5	6.13	850
	2.0	7.41	720	880
CAT 2	1.0	4.08	1060	1410
	1.00	1.5	5.16	950
	2.0	6.24	840	1060
CAT 2.5	1.0	2.95	1180	1660
	.85	1.5	3.73	1100
	2.0	4.51	1020	1340
CAT 3	1.0	2.00	1500	2010
	.70	1.5	2.53	1360
	2.0	3.06	1170	1630

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT. MULTIPLIER	$P_z$ kPa	0.47 mm		
		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.99	1170	1070	1420
	1.09	4.85	1100	990
	5.70	1040	900	1150
CAT 2	3.36	1260	1140	1540
	1.00	4.08	1160	1060
	4.80	1110	990	1290
CAT 2.5	2.43	1520	1420	1830
	.85	2.95	1370	1180
	3.47	1230	1130	1510
CAT 3	1.65	1820	1690	2170
	.70	2.00	1680	1590
	2.35	1550	1470	1860

\* For strength groups refer AS 1720 - 1975

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.47 mm SPANDEK HI-TEN 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>[Signature]</i> M.I.E. Aust	NORTHERN TERRITORY CYCLONIC AREAS APPROVED: <i>[Signature]</i> M.I.E. AUST	DRAWING NO. M/101/10	
DATE: 19/2/88	DATE: 20/4/88		
LYSAGHT DRAWING NO: 78376			

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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 LYSAGHT (AUSTRALIA) LIMITED (INCORPORATED IN NSW)  
CYCLONIC FIXING DATA  
SPANDEK HI-TEN 700 (0.47mm TCT) WITH CYCLONE WASHERS. UP TO 10 m

**LYSAGHT**  
BUILDING INDUSTRIES  
**78376**

REFERENCES  
WP NO: SD4710W

REVISIONS