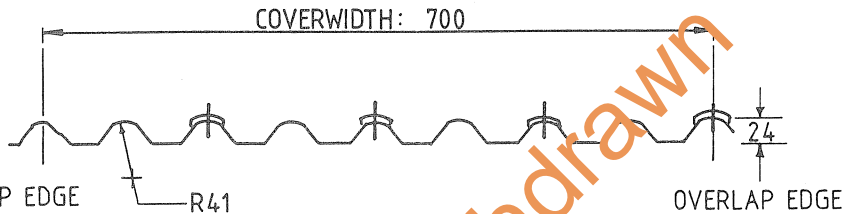


SPANDEK HI-TEN 700 FOR ROOFING & WALLING WITH CYCLONE WASHERS



MATERIAL SPECIFICATION: 0.47 mm TCT ZINCALUME STEEL TO AS 1377 - 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 B1.5 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	Strength Group *	Fastener
Hardwood J1 - J3	Type 17	Self-drilling wood screw with EDPM seal 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	No. 14-10x50	Self-drilling & tapping screw with EDPM seal 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 , kPa

SPAN mm	0.47 mm		
	SINGLE SPAN	END SPAN	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	0.6	0.6	1.2
2700	-	-	0.9
3000	-	-	0.6

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL PRESS. FACTOR K_1	P_z kPa	0.47 mm	
			END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.33	1040	1370
	1.03	1.5	5.48	920
	2.0	6.62	800	990
CAT 2	1.0	3.61	1110	1480
	.94	1.5	4.56	1010
	2.0	5.51	920	1180
CAT 2.5	1.0	2.61	1310	1760
	.80	1.5	3.30	1140
	2.0	3.99	1070	1420
CAT 3	1.0	1.78	1500	2100
	.66	1.5	2.25	1500
	2.0	2.72	1250	1730

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	P_z kPa	0.47 mm		
		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.57	1210	1120	1490
	1.03	4.33	1140	1040
	5.09	1090	960	1250
CAT 2	2.97	1370	1180	1660
	.94	3.61	1200	1110
	4.24	1150	1050	1380
CAT 2.5	2.15	1630	1540	1950
	.80	2.61	1470	1310
	3.07	1340	1170	1630
CAT 3	1.46	1890	1750	2270
	.66	1.78	1770	1650
	2.09	1650	1560	1970

* 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 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	NORTHERN TERRITORY CYCLONIC AREAS	DRAWING NO.
DATE: 19/2/88		APPROVED: <i>[Signature]</i>	M/101/9
LYSAGHT DRAWING NO: 78375		DATE: 20/4/88	

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

SCALE	N.T.S.
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 6 m



78375

WP NO: SD4706W

REFERENCES

REVISIONS