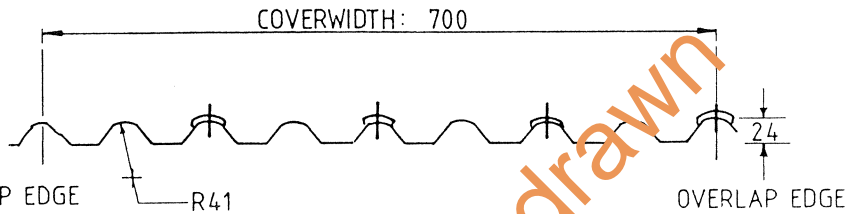


SPANDEK HI-TEN 700 FOR ROOFING & WALLING WITH CYCLONE WASHERS



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 B1.5 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 *	Self-drilling wood screw with EPDM seal	
Hardwood J1 - J3	Type 7	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	Self-drilling & tapping screw with EPDM seal	
Up to 2.5 mm.	No.14-10x50	Hex Hd. (Lysaght No. SHS 1450C)
2.5 - 3.0 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	5.5	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.	LOCAL PRESS. FACTOR	P_z kPa	0.53 mm		
			END SPAN mm	INT. SPAN mm	
CAT 1	1.0	4.85	1060	1350	
	1.09	1.5	6.13	920	1160
CAT 2	1.0	4.08	1150	1470	
	1.00	1.5	5.16	1030	1310
CAT 2.5	1.0	2.95	1400	1880	
	0.85	1.5	3.73	1190	1580
CAT 3	1.0	2.00	1660	2140	
	0.70	1.5	2.53	1520	1990
		2.0	3.06	1370	1860

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	P_z kPa	0.53 mm		
		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.99	900	1160	1480
	1.09	4.85	770	1060
CAT 2	3.36	1020	1290	1770
	1.00	4.08	880	1150
CAT 2.5	2.43	1190	1540	2020
	0.85	2.95	1090	1400
CAT 3	1.65	1450	1760	2290
	0.70	2.00	1330	1660
	2.35	1210	1560	2030

* 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 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/101/12
DATE: 19/2/88		DATE: 20/7/88	
LYSAGHT DRAWING NO: 78381			

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Sheet Steel Building Products Under Adverse Conditions

If it is intended to use uncoated, galvanised, prime coated or Colorbond building products within 1 kilometre of salt marine locations, or in severe industrial environments, please contact your nearest Lysaght Building Industries Sales Office for free specialised advice.

Performance

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

SCALE	N.T.S.
DATE	22-2-88
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(0.53mm TCT)
WITH CYCLONE WASHERS UP TO 10 m

Lysaght
BUILDING INDUSTRIES

78381

WP NO: SD5310W

REFERENCES

REVISIONS