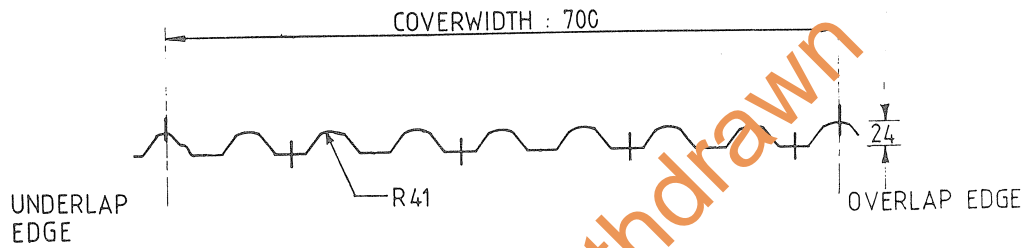


# SPANDEK HI-TEN 700 FOR WALLS VALLEY FASTENED



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 TABLE 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. 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
Strength Group *		
Hardwood J1 - J3	Type 17 Wafer Hd.No.14-10x25	(Lysaght No.TWS 1425)
Softwood J4	Type 17 Wafer Hd.No.14-12x25	(Lysaght No.TWS 1450)

Steel Supports		Self-drilling & tapping screw
Steel Thickness		
Up to 2.5 mm	No. 14-10x20 Hex Hd.	(Lysaght No. SHS 1420)
2.5 - 5.0 mm	No. 14-20x25 Hex Hd.	(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	0.53 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
600	9.6	4.8	6.0
900	4.3	3.2	4.0
1200	2.4	2.4	3.0
1500	1.5	1.9	2.4
1800	1.1	1.5	2.0
2100	0.8	0.9	1.7
2400	0.6	0.6	1.4
2700	0.4	0.4	1.0
3000	0.3	0.3	0.7
3300	0.2	0.2	0.5

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

TERRAIN CAT.	LOCAL MULTI-PLIER	PRESS. FACTOR $K_1$	$P_z$ kPa	0.53 mm		
				SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	1.03	1.0	3.57	1010	830	1030
		1.5	4.33	900	690	850
		2.0	5.09	850	580	730
CAT 2	.94	1.0	2.97	1110	980	1210
		1.5	3.61	1010	820	1020
		2.0	4.24	910	700	860
CAT 2.5	.80	1.0	2.15	1280	1350	1680
		1.5	2.61	1160	1120	1390
		2.0	3.07	1090	940	1180
CAT 3	.66	1.0	1.46	1520	1820	2330
		1.5	1.78	1400	1590	2020
		2.0	2.09	1300	1380	1730

\* For strength groups refer AS 1720 - 1975

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

TERRAIN CAT.	LOCAL MULTI-PLIER	PRESS. FACTOR $K_1$	$P_z$ kPa	0.53 mm		
				SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	1.09	1.0	3.99	950	750	900
		1.5	4.85	870	590	770
		2.0	5.70	820	540	640
CAT 2	1.00	1.0	3.36	1050	870	1090
		1.5	4.08	930	730	880
		2.0	4.80	870	600	780
CAT 2.5	.85	1.0	2.43	1190	1190	1480
		1.5	2.95	1110	990	1220
		2.0	3.47	1030	850	1060
CAT 3	.70	1.0	1.65	1460	1690	2150
		1.5	2.00	1340	1450	1800
		2.0	2.35	1210	1230	1530

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  
0.53mm TCT UP TO 6m & 10m

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.53 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	NORTHERN TERRITORY CYCLONIC AREAS	DRAWING NO.	
DATE: 19/2/88	APPROVED: <i>[Signature]</i> MTE Aust	M/215/14	
LYSAGHT DRAWING NO: 78382		DATE: 20/4/88	

WP NO: SD53V

REFERENCES

REVISIONS

COPYRIGHT: This design and print is the property of John Lysaght (Australia) Limited and must not be used, reproduced or copied, wholly or in part, without written permission from the Company. Supply of this design and print represents a confidential communication between the Company and the recipient.  
 Sheet Steel Building Products Under Adverse Conditions  
 If it is intended to use uncoated, galvanneal, 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.