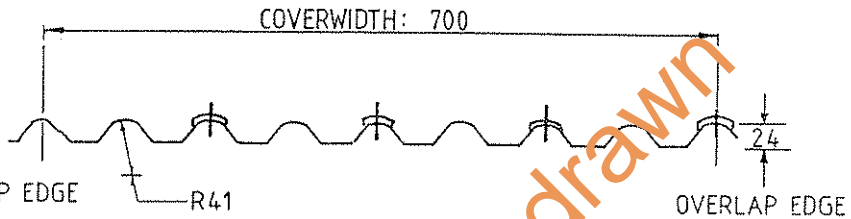


SPANDEK HI-TEN 700 FOR WITH CYCLONE WASHERS

WALLING



MATERIAL SPECIFICATION: 0.53 mm TCT ZINCALUME STEEL TO AS 1197 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 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	Self-drilling & tapping screw with EPDM seal
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 , 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

* For strength groups refer AS 1720-1975

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	4.85	1060	1350
	1.09	1.5	6.13	920
	2.0	7.41	790	970
CAT 2	1.0	4.08	1150	1470
	1.00	1.5	5.16	1030
	2.0	6.24	900	1150
CAT 2.5	1.0	2.95	1400	1880
	0.85	1.5	3.73	1190
	2.0	4.51	1100	1410
CAT 3	1.0	2.00	1660	2140
	0.70	1.5	2.53	1520
	2.0	3.06	1370	1860

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	3.99	900	1160	1480
	1.09	4.85	770	1060
	5.70	640	970	1230
CAT 2	3.36	1020	1290	1770
	1.00	4.08	880	1150
	4.80	780	1070	1360
CAT 2.5	2.43	1190	1540	2020
	0.85	2.95	1090	1400
	3.47	1000	1260	1710
CAT 3	1.65	1450	1760	2290
	0.70	2.00	1330	1660
	2.35	1210	1560	2030

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	DRAWING NO.
DATE: 19/2/88		APPROVED: <i>[Signature]</i>	<i>M/212/18</i>
LYSAGHT DRAWING NO: 78381		DATE: 20/4/88	

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, 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

78381

WP NO: SD5310W

REFERENCES

REVISIONS