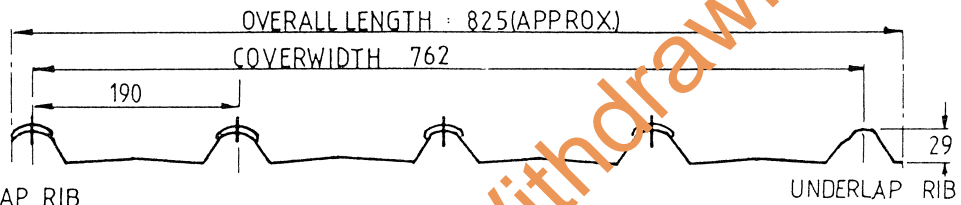


TRIMDEK HI-TEN FOR ROOFING & WALLING WITH CYCLONE WASHERS



MATERIAL SPECIFICATION: 0.47 mm TCT ZINCALUME STEEL C.A. 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 EDPM seal
Hardwood J1 - J3	Tyre 17 Hex Hd. No. 14-10x65 (Lysaght No. THS 1465)
Softwood	Type 17 Hex Hd. No. 14-10x75 (Lysaght No. THS 1475)

Steel Supports	
Steel thickness	Self-drilling tapping screw with EDPM seal
Up to 2.5 mm	No. 14-10x65 Hex Hd. (Lysaght No. SHS 1450C)
3 - 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
600	16.0	8.0	10.0
900	7.1	5.3	6.6
1200	4.0	3.4	5.0
1500	1.8	1.7	2.8
1800	0.8	0.8	1.7
2100	-	-	1.1
2400	-	-	0.7

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL PRESS. PLIER	K1	0.47 mm	
			END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.33	1000	1290
	1.03	1.5	5.48	880
	2.0	6.62	750	900
CAT 2	1.0	3.61	1000	1390
	.94	1.5	4.56	1000
	2.0	5.51	870	1100
CAT 2.5	1.0	2.61	1000	1550
	.80	1.5	3.30	1000
	2.0	3.99	1000	1330
CAT 3	1.0	1.78	1000	1700
	.66	1.5	2.25	1000
	2.0	2.72	1000	1520

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	1260	1170	1390
	1.03	4.33	1170	1050
	5.09	1090	930	1180
CAT 2	2.97	1340	1270	1470
	.94	3.61	1250	1160
	4.24	1170	1060	1300
CAT 2.5	2.15	1450	1420	1670
	.80	2.61	1390	1340
	3.07	1320	1250	1460
CAT 3	1.46	1600	1580	1920
	.66	1.78	1500	1480
	2.09	1460	1430	1690

* For strength groups refer AS 1720 - 1975

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.47 mm TRIMDEK 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 APPROVED: <i>[Signature]</i>	DRAWING NO.
DATE: 19/2/88		DATE: 20/4/88	M/101/15
LYSAGHT DRAWING NO: 78365			

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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.
APPROVED: [Signature]

Engineering and Development
Lysaght Building Industries
A DIVISION OF JOHN LYSAGHT (AUSTRALIA) LIMITED (INCORPORATED IN NSW)

CYCLONIC FIXING DATA
TRIMDEK HI-TEN (0.47 mm TCT)
WITH CYCLONE WASHERS UP TO 6 m

LYSAGHT
BUILDING INDUSTRIES

78365

WP NO: THT4706W

REFERENCES

REVISIONS