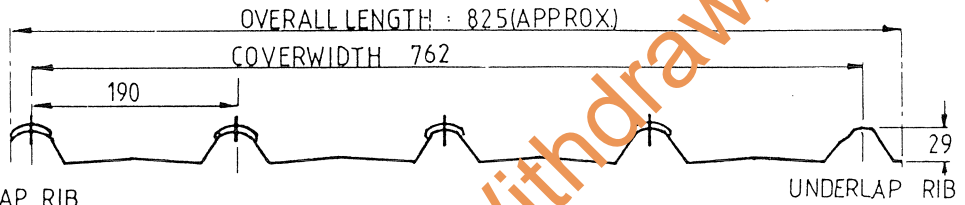


TRIMDEK HI-TEN FOR ROOFING & WALLING WITH CYCLONE WASHERS



MATERIAL SPECIFICATION: 0.47 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 P_z AS PER PARAGRAPH 815 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	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 EDPM 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	0.47 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 MULTI-PLIER	PRESS. K1	P_z kPa	0.47 mm	
				END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.85	970	1220	
	1.09	1.5	6.13	800	980
	2.0	7.41	660	830	
CAT 2	1.0	4.08	1000	1320	
	1.00	1.5	5.16	920	1170
	2.0	6.24	790	960	
CAT 2.5	1.0	2.95	1000	1480	
	.85	1.5	3.73	1000	1370
	2.0	4.51	1000	1260	
CAT 3	1.0	2.00	1000	1700	
	.70	1.5	2.53	1000	1570
	2.0	3.06	1000	1460	

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	3.99	1200	1100	1330	
	1.09	4.85	1110	970	1220
	5.70	1030	850	1070	
CAT 2	3.36	1280	1200	1420	
	1.00	4.08	1190	1090	1320
	4.80	1120	980	1220	
CAT 2.5	2.43	1410	1370	1600	
	.85	2.95	1340	1280	1480
	3.47	1270	1190	1410	
CAT 3	1.65	1540	1510	1820	
	.70	2.00	1470	1440	1720
	2.35	1420	1380	1620	

* For strength groups refer AS 1720 - 1975

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If it is intended to use uncoated, galvanneal, prime coated or galvalume 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
TRIMDEK HI-TEN(0.47mm TCT)
WITH CYCLONE WASHERS UP TO 10 m

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.47 mm TRIMDEK 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> M.I.E. Aust	M/101/16
LYSAGHT DRAWING NO: 78366		DATE: 20/4/88	

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BUILDING INDUSTRIES

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REFERENCES	WP NO: THT4710W	REVISIONS
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