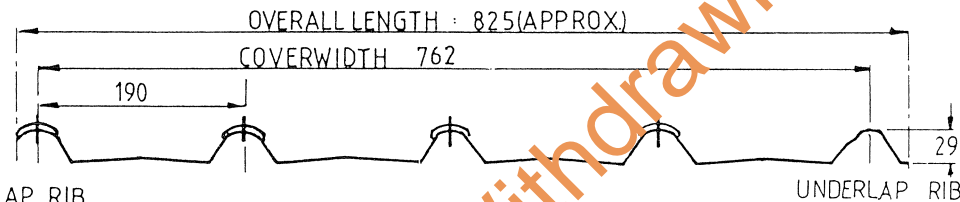


# TRIMDEK HI-TEN FOR ROOFING & WALLING WITH CYCLONE WASHERS



OVERLAP RIB  
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 EDPM seal
Hardwood J1 - J4	Type 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
1.5 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
900	5.0	5.8	7.3
1200	2.8	3.5	5.4
1500	1.8	2.4	3.7
1800	1.2	1.4	2.6
2100	0.6	0.9	1.9
2400	-	-	1.3
2700	-	-	0.9
3000	-	-	0.6

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL PRESS. MULTI- PLIER K1	$P_z$ kPa	0.53 mm		
			END SPAN mm	INT. SPAN mm	
CAT 1	1.0	4.33	1090	1400	
	1.03	1.5	5.48	940	1200
CAT 2	2.0	6.62	820	1010	
	1.0	3.61	1190	1530	
.94	1.5	4.56	1060	1360	
	2.0	5.51	940	1190	
CAT 2.5	1.0	2.61	1450	1790	
	.80	1.5	3.30	1260	1610
.80	2.0	3.99	1130	1450	
	1.0	1.78	1690	2160	
CAT 3	.66	1.5	2.25	1550	1950
	2.0	2.72	1420	1770	

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	3.57	1090	1190	1540
	1.03	4.33	990	1090
.94	5.09	890	990	1260
	2.97	1180	1340	1700
.94	3.61	1090	1190	1520
	4.24	1000	1130	1430
CAT 2.5	2.15	1390	1580	1990
	.80	2.61	1260	1450
.80	3.07	1160	1320	1670
	1.46	1680	1780	2320
CAT 3	.66	1.78	1510	1690
	2.09	1410	1600	2020

\* For strength groups refer AS 1720 - 1975

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.53 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>K. May</i> M.I.E. Aust		NORTHERN TERRITORY CYCLONIC AREAS APPROVED: <i>g. farman</i> DATE: <i>20/4/88</i>	DRAWING NO. <i>M/101/87</i>
DATE: 19/2/88		LYSAGHT DRAWING NO: 78370	

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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.

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

Engineering and Development

Lysaght Building Industries  
A Division of John Lysaght (Australia) Limited (Incorporated in NSW)

**LYSAGHT**  
BUILDING INDUSTRIES

CYCLONIC FIXING DATA  
TRIMDEK HI-TEN (0.53mm TCT)

WITH CYCLONE WASHERS UP TO 6 m

78370

WP NO: THT5306W

REFERENCES

REVISIONS