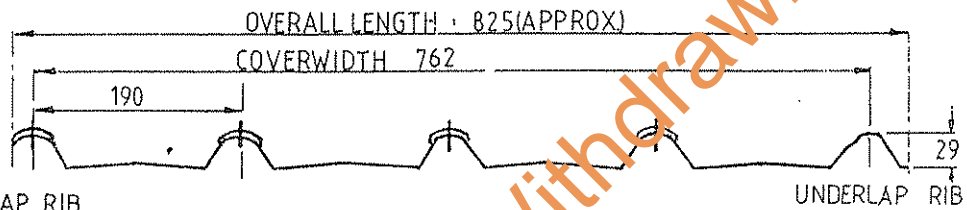


# TRIMDEK HI-TEN FCR WITH CYCLONE WASHERS

# WALLING



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<sub>z</sub> 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 K1 AS PER PARAGRAPH 21.5 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	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
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<sub>z</sub>, 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. FACTOR K1	P <sub>z</sub> kPa	0.47 mm	
MULTI-PLIER			END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.85	970	1220
	1.09	1.5	6.13	800
CAT 2	1.0	4.08	1000	1320
	1.00	1.5	5.16	920
CAT 2.5	1.0	2.95	1000	1480
	.85	1.5	3.73	1000
CAT 3	1.0	2.00	1000	1700
	.70	1.5	2.53	1000
	2.0	3.06	1000	1460

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	P <sub>z</sub> kPa	0.47 mm		
MULTI-PLIER		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.99	1200	1100	1330
	1.09	4.85	1110	970
CAT 2	3.36	1280	1200	1420
	1.00	4.08	1190	1090
CAT 2.5	2.43	1410	1370	1600
	.85	2.95	1340	1280
CAT 3	1.65	1540	1510	1820
	.70	2.00	1470	1440
	2.35	1420	1380	1620

\* 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 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	14/205/22
LYSAGHT DRAWING NO: 78366		DATE: 20/4/88	

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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 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 (0.47 mm TCT)

WITH CYCLONE WASHERS UP TO 10 m



78366

WP NO: THT4710W

REFERENCES

REVISIONS