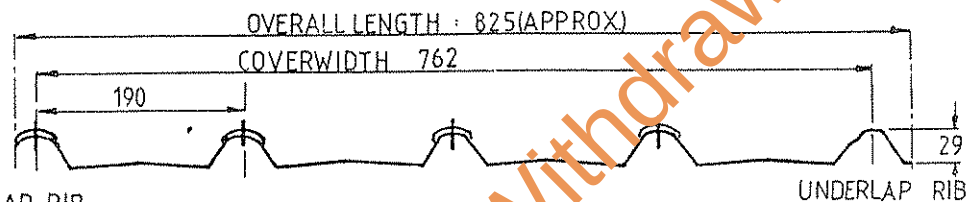


TRIMDEK HI-TEN FOR WITH CYCLONE WASHERS

WALLING



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 100 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 OF 40 m/s, CYCLONIC AREA MULTIPLIER OF 1.15 AND ASSUMING AN INTERNAL PRESSURE COEFFICIENT OF + 0.9 AND EXTERNAL PRESSURE COEFFICIENT OF - 0.9 (FOR ROOFS), OR - 0.6 (FOR WALLS). FOR TABLES 2 AND 3 THE THREE SPANS FOR EACH TERRAIN CATEGORY ALLOW FOR LOCAL PRESSURE FACTOR K_1 AS PER PARAGRAPH 11.5 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 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. 14-1450 Hex Hd. (Lysaght No. SHS 1450C)
2.5 - 5.0 mm.	No. 14-10x50 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. FACTOR	P_z	0.53 mm END SPAN	INT. SPAN
MULTIPLIER	K_1	kPa	mm	mm
CAT 1 1.09	1.0	4.85	1020	1300
	1.5	6.13	870	1090
	2.0	7.41	740	890
CAT 2 1.00	1.0	4.08	1120	1440
	1.5	5.16	980	1250
	2.0	6.24	860	1070
CAT 2.5 .85	1.0	2.95	1350	1710
	1.5	3.73	1170	1500
	2.0	4.51	1070	1360
CAT 3 .70	1.0	2.00	1630	2060
	1.5	2.53	1470	1830
	2.0	3.06	1320	1680

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN		0.53 mm		
CAT. MULTI- PLIER	P _z kPa	SINGLE	END	INT.
		SPAN	SPAN	SPAN
		mm	mm	mm
CAT 1 1.09	3.99	1040	1130	1450
	4.85	920	1070	1360
	5.70	810	910	1160
CAT 2 1.00	3.36	1120	1240	1600
	4.08	1020	1120	1440
	4.80	920	1030	1310
CAT 2.5 .85	2.43	1310	1590	1870
	2.95	1180	1350	1710
	3.47	1110	1210	1570
CAT 3 .70	1.65	1580	1730	2230
	2.00	1440	1630	2060
	2.35	1330	1520	1900

* For strength groups refer AS 1720 - 1975

Manufacturers Name:

LYSAGHT BUILDING INDUSTRIES

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CERTIFIED: M.I.E. Aust

DATE: 19/2/88

LYSAGHT DRAWING NO: 78371

FIXING OF 0.53 mm TRIMDEK HI-TEN WITH CYCLONE WASHERS IN THE DARWIN AREA BUILDING HEIGHT UP TO 10 m

DESIGN DATA SHEET

NORTHERN TERRITORY

CYCLONIC AREAS

APPROVED: MIE Aust

DATE: 20/4/88

DRAWING NO.

M/215/88

REFERENCE:

WP NO: THT5310W

REVISIONS

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If it is intended to use uncoated, galvanneal, 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

TRIMDEK HI-TEN(0.53mm.TCT)

WITH CYCLONE WASHERS UP TO 10 m

78371