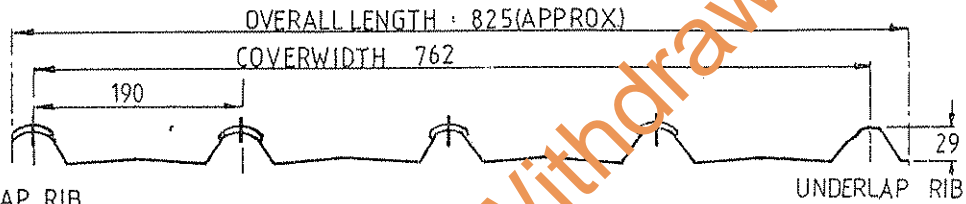


TRIMDEK HI-TEN FOR WALLING

WALLING



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 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	Self-drilling wood screw with EDPM seal
Strength Group * : 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	Self-drilling & tapping screw with EDPM seal
Steel thickness: Up to 2.5 mm.	No. 14-10, 50 Hex Hd. (Lysaght No. SHS 1450C)
2.5 - 5.0 mm.	No. 14-20, 50 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 MULTI-PLIER	PRESS. FACTOR K_1	P_z kPa	0.53 mm END SPAN mm	0.53 mm INT. SPAN mm
CAT 1	1.0	1.0	4.33	1090	1400
	1.03	1.5	5.48	940	1200
		2.0	6.62	820	1010
CAT 2	1.0	1.0	3.61	1190	1530
	.94	1.5	4.56	1060	1360
		2.0	5.51	940	1190
CAT 2.5	1.0	1.0	2.61	1450	1790
	.80	1.5	3.30	1260	1610
		2.0	3.99	1130	1450
CAT 3	1.0	1.0	1.78	1690	2160
	.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		
MULTI-PLIER		SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.57	1090	1190	1540
	4.33	990	1090	1390
	5.09	890	990	1260
CAT 2	2.97	1180	1340	1700
	3.61	1090	1190	1520
	4.24	1000	1130	1430
CAT 2.5	2.15	1390	1580	1990
	2.61	1260	1450	1790
	3.07	1160	1320	1670
CAT 3	1.46	1680	1780	2320
	1.78	1510	1690	2160
	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. Maffei</i> M.I.E. Aust	DATE: 19/2/88	NORTHERN TERRITORY CYCLONIC AREAS APPROVED: <i>G. N. Jordan</i> M.I.E. Aust	DRAWING NO. <i>M/215/23</i>
LYSAGHT DRAWING NO: 78370		DATE: <i>20/4/88</i>	

COPYRIGHT: This design and print is the property of John Lysaght (Australia) Limited and must not be used, reproduced or copied, wholly or in part, without written permission from the Company. Supply of this design and print represents a confidential communication between the Company and the recipient.

Sheet Steel Building Products Under Adverse Conditions
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 6 m



78370

WP NO: THT5306W

REFERENCES

REVISIONS