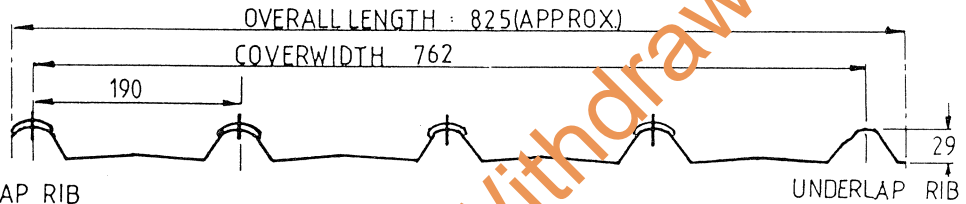


TRIMDEK HI-TEN FOR ROOFING & WALLING WITH CYCLONE WASHERS



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 15 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 1.1 AS PER PARAGRAPH 8.5 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 - J6	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	0.53 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 K1	PRESS. P_z kPa	0.53 mm	
			END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.85	1020	1300
	1.09	1.5	6.13	870
	2.0	7.41	740	890
CAT 2	1.0	4.08	1120	1440
	1.00	1.5	5.16	980
	2.0	6.24	860	1070
CAT 2.5	1.0	2.95	1350	1710
	.85	1.5	3.73	1170
	2.0	4.51	1070	1360
CAT 3	1.0	2.00	1630	2060
	.70	1.5	2.53	1470
	2.0	3.06	1320	1680

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

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

* For strength groups refer AS 1720 - 1975

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Sheet Steel Building Products Under Adverse Conditions

If it is intended to use uncoated, galvanised, prime coated or Colortbond 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

Manufacturers Name: LYSAGHT BUILDING INDUSTRIES		FIXING OF 0.53 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/101/18
LYSAGHT DRAWING NO: 78371		DATE: 20/4/88	

78371
Lysaght BUILDING INDUSTRIES

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REFERENCES

REVISIONS