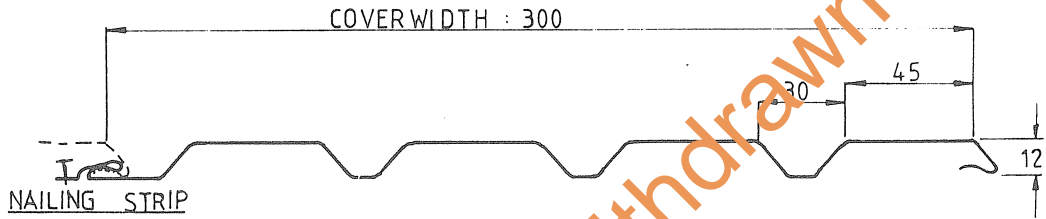


EASYCLAD HI-TEN (4P300) FOR WALLS



MATERIAL SPECIFICATION: 0.40 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. OVERHANGS TO BE 300 mm MAXIMUM.

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 - 0.6. FOR TABLE 2 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. BRACING STRENGTH PROVIDED BY THE CLADDING HAS NOT BEEN TESTED AND SHOULD NOT BE ALLOWED FOR IN THE DESIGN OF THE STRUCTURE.

REQUIRED FASTENERS

| Timber Supports | | Self-drilling wood screw | Nails ** |
|------------------|---|--------------------------|------------|
| Strength Group * | | | |
| Hardwood J1 - J3 | Type 17 Wafer Hd. No. 10-12x22 (Lysaght No. TWS 1022) | | 3.75x50 mm |
| Softwood J4 | Type 17 Wafer Hd. No. 10-12x22 (Lysaght No. TWS 1022) | | 3.75x50 mm |

| Steel Supports | | Self-drilling & tapping screw |
|-----------------|--|-------------------------------|
| Steel Thickness | | |
| Up to 2.5 mm. | No. 10-16x16 Wafer Hd. (Lysaght No. SWS 1016C) | |
| 2.5 - 3.0 mm. | No. 10-24x6 Wafer Hd. (Lysaght No. SWS 1016) | |

When fixing over insulating blankets increase screw length to maintain fastener penetration in support.

TABLE 1: DESIGN WIND PRESSURE, P_z , kPa

| SPAN mm | 0.40 mm | | |
|---------|-------------|----------|-----------|
| | SINGLE SPAN | END SPAN | INT. SPAN |
| 300 | 5.5 | 2.2 | 2.8 |
| 600 | 1.7 | 1.1 | 1.4 |
| 900 | 0.7 | 0.7 | 0.9 |
| 1200 | 0.5 | - | 0.7 |
| 1500 | - | - | 0.5 |

TABLE 2: WALL SHEETING MAXIMUM ALLOWABLE SPANS, HEIGHT UP TO 6 m

| TERRAIN CAT. | LOCAL PRESS. MULTI-PLIER | LOCAL PRESS. K_1 | P_z kPa | 0.40 mm | | |
|--------------|--------------------------|--------------------|-----------|----------------|-------------|--------------|
| | | | | SINGLE SPAN mm | END SPAN mm | INT. SPAN mm |
| CAT 1 | 1.0 | 1.0 | 3.57 | 450 | - | - |
| | 1.03 | 1.5 | 4.33 | 390 | - | - |
| CAT 2 | 1.0 | 2.0 | 5.09 | 330 | - | - |
| | .94 | 1.5 | 3.61 | 450 | - | - |
| CAT 2.5 | 1.0 | 2.0 | 4.24 | 400 | - | - |
| | .80 | 1.5 | 2.61 | 520 | - | - |
| CAT 3 | 1.0 | 2.0 | 3.07 | 490 | - | - |
| | .66 | 1.5 | 1.46 | 660 | 510 | 590 |
| | | | | 590 | 420 | 520 |
| | | | | 560 | 340 | 450 |

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS, HEIGHT UP TO 10 m

| TERRAIN CAT. | LOCAL PRESS. MULTI-PLIER | LOCAL PRESS. K_1 | P_z kPa | 0.40 mm | | |
|--------------|--------------------------|--------------------|-----------|----------------|-------------|--------------|
| | | | | SINGLE SPAN mm | END SPAN mm | INT. SPAN mm |
| CAT 1 | 1.0 | 1.0 | 3.99 | 420 | - | - |
| | 1.09 | 1.5 | 4.85 | 350 | - | - |
| CAT 2 | 1.0 | 2.0 | 5.70 | 290 | - | - |
| | 1.00 | 1.5 | 4.08 | 410 | - | - |
| CAT 2.5 | 1.0 | 2.0 | 4.80 | 350 | - | - |
| | 0.85 | 1.5 | 2.43 | 540 | - | - |
| CAT 3 | 1.0 | 2.0 | 2.95 | 500 | - | - |
| | 0.70 | 1.5 | 3.47 | 460 | - | - |
| | | | | 600 | 460 | 550 |
| | | | | 570 | 360 | 470 |
| | | | | 540 | 280 | 390 |

* For strength groups refer AS 1720 - 1975

** Annular or helical grooved type ONLY
Head dia. - 9mm min.

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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
EASYCLAD HI-TEN(4P300) 0.4 mm TCT
UP TO 6 m & 10 m

| | | | |
|---|-----------------------------------|--|-----------------------------|
| Manufacturers Name: LYSAGHT BUILDING INDUSTRIES | | FIXING OF 0.40 mm EASYCLAD HI-TEN 4P300 ON WALLS IN THE DARWIN AREA BUILDING HEIGHT UP TO 6 m & 10 m | |
| Address: Cnr. Coonawarra and Bombing Roads, Winnellie. N.T. Phone: (089) 84 3311 | | DESIGN DATA SHEET | |
| CERTIFIED: <i>K. W. Joff</i> M.I.E. Aust | NORTHERN TERRITORY CYCLONIC AREAS | APPROVED: <i>J. M. Gordon</i> M.I.E. Aust | DRAWING NO. M/215/31 |
| DATE: 19/2/88 | DATE: 20/4/88 | | |
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