

**DESIGN DATA**

**SPEED DECK (mark III)  
MAXIMUM ALLOWABLE SPANS**

The Maximum Allowable Spans set out in the following tables have been calculated to conform with the requirements of the N.T. Building Manual. (For design parameters refer to Drawing No.M.109.2)

Spans with suffix "A" or "B" require four fasteners to each fixing clip. Refer graphs on Drawing No.M-109.5

Category 3 Terrain Multipliers of 0.73 and 0.85 have been used in order to comply with the N.T. Building Manual. (Group VI - Structural Provisions, 30-1(i)-(iii)).

Roof Surface Areas - refer to AS-1170 Part 2 1975, Appendix B, Pressure, Drag and Force Coefficients

**TABLE 1. Buildings up to 5m. in height..... (Spans reduced to 100mm multiples)**

| REGIONAL BASIC DESIGN WIND VELOCITY        | TERRAIN CATEGORY | TERRAIN CATEGORY MULTIPLIER | ROOF SURFACE AREAS | CALCULATED WIND PRESSURE IN kPa. | RECOMMENDED MAXIMUM SINGLE SPANS (mm) |             |
|--|------------------|-----------------------------|--------------------|----------------------------------|---------------------------------------|-------------|
|  |                  |                             |                    |                                  | <b>-.77</b>                           | <b>-.62</b> |
| 55m/s x 1.15<br>(Cyc. Mult.)<br>= 63.5 m/s | 1                | 1.02                        | D                  | 4.25                             | 1800 B                                | 1100        |
|  |                  |                             | F                  | 5.37                             | 1500 A                                | 900         |
|  |                  |                             | G                  | 6.49                             | 1200 A                                | 600         |
|  | 2                | 0.93                        | D                  | 3.53                             | 2000 B                                | 1300        |
|  |                  |                             | F                  | 4.46                             | 1700 B                                | 1000        |
|  |                  |                             | G                  | 5.40                             | 1500 A                                | 800         |
|  | 3                | 0.73                        | D                  | 2.18                             | 2400 B                                | 1800        |
|  |                  |                             | F                  | 2.75                             | 2300 B                                | 1600        |
|  |                  |                             | G                  | 3.33                             | 2100 B                                | 1400        |

**TABLE 2. Buildings from 5m. to 10m in height..... (Spans reduced to 100mm multiples)**

| REGIONAL BASIC DESIGN WIND VELOCITY        | TERRAIN CATEGORY | TERRAIN CATEGORY MULTIPLIER | ROOF SURFACE AREAS | CALCULATED WIND PRESSURE IN kPa. | RECOMMENDED MAXIMUM SINGLE SPANS (mm) |             |
|--|------------------|-----------------------------|--------------------|----------------------------------|---------------------------------------|-------------|
|  |                  |                             |                    |                                  | <b>-.77</b>                           | <b>-.62</b> |
| 55m/s x 1.15<br>(Cyc. Mult.)<br>= 63.5 m/s | 1                | 1.09                        | D                  | 4.85                             | 1600 A                                | 1000        |
|  |                  |                             | F                  | 6.13                             | 1300 A                                | 800         |
|  |                  |                             | G                  | 7.42                             | 1000 A                                | 600         |
|  | 2                | 1.00                        | D                  | 4.08                             | 1900 B                                | 1200        |
|  |                  |                             | F                  | 5.16                             | 1600 A                                | 900         |
|  |                  |                             | G                  | 6.24                             | 1300 A                                | 700         |
|  | 3                | 0.85                        | D                  | 2.95                             | 2200 B                                | 1600        |
|  |                  |                             | F                  | 3.73                             | 2000 B                                | 1300        |
|  |                  |                             | G                  | 4.51                             | 1700 B                                | 1000        |

|  |  |                              |
|--|--|------------------------------|
| MANUF'S NAME <b>Stramit Industries Limited</b><br><br>ADDRESS <b>96 Franklin Street Melbourne 3000</b><br><br>PHONE No <b>329 7611</b> | FIXING OF<br><br><b>STRAMIT "SPEED DECK" ROOFING</b><br><br>IN THE DARWIN AREA |                              |
|  | <b>DESIGN DATA SHEET</b>   |                              |
| CERTIFIED <i>[Signature]</i> MIE AUST<br><br>DATE <b>20/2/1977</b>   | NORTHERN TERRITORY<br><b>CYCLONIC AREAS</b>                                    | DRAWING No<br><b>M/109/3</b> |
|  | Acctd. <i>[Signature]</i>  | Date <b>12/6/78</b>          |