



## SPAN TABLES

### SPAN TABLES

- These span tables have been developed in good faith, with the assistance of Mr. Peter Falvey B.E., M.I.E.Aust., C.P.Eng., R.P.E.Q.(579) in accordance with the relevant Australian Standards, however please check for state and local government variations.
- These span tables are only for use in conjunction with Taranakipine™ timber products. They cannot be used for timber products produced by any other timber manufacturer regardless of similarity of species or design. Taranakipine timber products are produced to stringent quality assurance procedures which include the measurement of strength and stiffness ratings. Taranakipine cannot assure other manufacturers comply with our quality assurance procedures.
- All members are manufactured from H3 LOSP Radiata Pine to either F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720: Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 parts 1&2: Structural Design Actions.
- Finger jointing and adhesives to meet service conditions outlined in AS5068: 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2 Residential Timber-Framed Construction
- A maximum roof pitch of 25 degrees is assumed
- Refer to "Technical Drawings" where noted for explanation of maximum loads / spans.

# Peter Falvey

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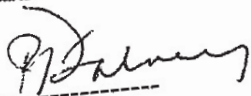
B.E., M.I.E. Aust., C.P. Eng., R.P.E.Q. (579)  
Wongawallen Road, (P.O. Box 31)  
Eagle Heights, Qld 4271.  
Australia

Phone (07) 55451554  
Fax (070) 55453998  
Mob 0408 783 193  
ABN - 80 009 751 704

Mr. Dave Airey  
Taranakipine  
P. O. Box 7145  
Fitzroy  
New Plymouth 4341  
New Zealand

The TARANAKIPINE SPAN TABLES attached for - F7 grade timber structural fingerjointed members and GL 8 members have been examined and are considered to be structurally satisfactory and able to meet the requirements of A.S. 1170 Pts 1 and 2.2002 Structural Design Actions. All timber is to be L.O.S.P. treated to standard H3 and graded to A.S.1720.2-2006 with finger jointing to meet the requirements of A.S.5068-2006 and A.S. 5069-2006. A maximum roof pitch of 25 degrees is assumed. Construction details should be in accordance with A.S.1684 Residential Timber Framed Construction.

All construction methods shall meet the requirements of the relevant Workplace Health and Safety Authorities.



P. J. FALVEY, R.P.E.Q. 579

## F7 RAFTERS - 30mm

| N1/N2 WIND – SHEET ROOF |            |      |      |      |      |
|-------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7  |            |      |      |      |      |
| N1 WIND                 | SHEET ROOF |      |      |      |      |
|                         | N2 WIND    |      |      |      |      |
| SPACING (mm)            |            |      |      |      |      |
| Rafter Size             | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 30                 | 1400       | 1300 | 1200 | 1200 | 1100 |
| 90 x 30                 | 1900       | 1800 | 1700 | 1600 | 1500 |
| 138 x 30                | 2900       | 2700 | 2600 | 2500 | 2350 |
| 185 x 30                | 3600       | 3400 | 3150 | 2950 | 2700 |

| N3 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N3 WIND                | SHEET ROOF |      |      |      |      |
|                        | N3 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 30                | 1250       | 1150 | 1050 | 1000 | 950  |
| 90 x 30                | 1650       | 1550 | 1550 | 1400 | 1300 |
| 138 x 30               | 2600       | 2300 | 2150 | 2000 | 1800 |
| 185 x 30               | 3000       | 2650 | 2450 | 2350 | 2150 |
| 230 x 30               | 3050       | 2650 | 2450 | 2350 | 2150 |

| N4 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N4 WIND                | SHEET ROOF |      |      |      |      |
|                        | N4 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 30                | 1050       | 950  | 850  | 800  | 700  |
| 90 x 30                | 1450       | 1300 | 1200 | 1100 | 1000 |
| 138 x 30               | 2150       | 1900 | 1700 | 1600 | 1500 |
| 185 x 30               | 2400       | 2200 | 1950 | 1850 | 1700 |
| 230 x 30               | 2450       | 2200 | 2000 | 1900 | 1750 |

| N5 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N5 WIND                | SHEET ROOF |      |      |      |      |
|                        | N5 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 30                | 850        | 750  | 700  | 700  | 600  |
| 90 x 30                | 1200       | 1050 | 1000 | 900  | 850  |
| 138 x 30               | 1700       | 1550 | 1400 | 1300 | 1200 |
| 185 x 30               | 2000       | 1750 | 1600 | 1550 | 1400 |
| 230 x 30               | 2000       | 1800 | 1600 | 1550 | 1400 |

| N6 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N6 WIND                | SHEET ROOF |      |      |      |      |
|                        | N6 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 30                | 700        | 650  | 600  | 550  | 500  |
| 90 x 30                | 1050       | 900  | 800  | 750  | 750  |
| 138 x 30               | 1450       | 1300 | 1200 | 1150 | 1050 |
| 185 x 30               | 1700       | 1500 | 1350 | 1350 | 1200 |
| 230 x 30               | 1700       | 1550 | 1400 | 1350 | 1200 |

## F7 RAFTERS - 42mm

## SHEET ROOF

| N1/N2 WIND – SHEET ROOF |            |      |      |      |      |
|-------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7  |            |      |      |      |      |
| N1 WIND                 | SHEET ROOF |      |      |      |      |
|                         | N2 WIND    |      |      |      |      |
| SPACING (mm)            |            |      |      |      |      |
| Rafter Size             | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 42                 | 1650       | 1630 | 1540 | 1480 | 1370 |
| 90 x 42                 | 2400       | 2220 | 2100 | 2020 | 1900 |
| 138 x 42                | 3680       | 3400 | 3210 | 3100 | 2920 |
| 185 x 42                | 4590       | 4320 | 4140 | 4040 | 3860 |
| 230 x 42                | 5400       | 5090 | 4880 | 4750 | 4540 |
| 280 x 42                | 6260       | 5900 | 5650 | 5510 | 5260 |

| N3 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N3 WIND                | SHEET ROOF |      |      |      |      |
|                        | N3 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1530       | 1420 | 1340 | 1290 | 1220 |
| 90 x 42                | 2090       | 1930 | 1830 | 1760 | 1660 |
| 138 x 42               | 3200       | 2960 | 2800 | 2700 | 2540 |
| 185 x 42               | 4130       | 3900 | 3730 | 3620 | 3350 |
| 230 x 42               | 4870       | 4590 | 4400 | 4250 | 3810 |
| 280 x 42               | 5640       | 5250 | 4780 | 4500 | 4040 |

| N4 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N4 WIND                | SHEET ROOF |      |      |      |      |
|                        | N4 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1340       | 1240 | 1170 | 1110 | 1010 |
| 90 x 42                | 1830       | 1690 | 1600 | 1510 | 1380 |
| 138 x 42               | 2810       | 2590 | 2450 | 2360 | 2120 |
| 185 x 42               | 3740       | 3480 | 3180 | 2980 | 2660 |
| 230 x 42               | 4410       | 3980 | 3610 | 3390 | 3020 |
| 280 x 42               | 4800       | 4210 | 3830 | 3590 | 3210 |

| N5 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N5 WIND                | SHEET ROOF |      |      |      |      |
|                        | N5 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1170       | 1040 | 960  | 910  | 830  |
| 90 x 42                | 1620       | 1420 | 1300 | 1240 | 1130 |
| 138 x 42               | 2480       | 2250 | 2020 | 1900 | 1730 |
| 185 x 42               | 3260       | 2840 | 2560 | 2390 | 2150 |
| 230 x 42               | 3680       | 3220 | 2910 | 2720 | 2420 |
| 280 x 42               | 3900       | 3410 | 3090 | 2890 | 2570 |

| N6 WIND – SHEET ROOF   |            |      |      |      |      |
|------------------------|------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |            |      |      |      |      |
| N6 WIND                | SHEET ROOF |      |      |      |      |
|                        | N6 WIND    |      |      |      |      |
| SPACING (mm)           |            |      |      |      |      |
| Rafter Size            | 600        | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1000       | 890  | 820  | 780  | 710  |
| 90 x 42                | 1390       | 1210 | 1120 | 1060 | 970  |
| 138 x 42               | 2200       | 1900 | 1710 | 1620 | 1480 |
| 185 x 42               | 2770       | 2410 | 2160 | 2020 | 1840 |
| 230 x 42               | 3130       | 2730 | 2460 | 2300 | 2070 |
| 280 x 42               | 3320       | 2900 | 2610 | 2440 | 2180 |

**F7 RAFTERS - 42mm**

**TILE ROOF**

| N1/N2 WIND – TILE ROOF |              |      |      |      |      |
|------------------------|--------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |              |      |      |      |      |
| N1 WIND<br>N2 WIND     | TILE ROOF    |      |      |      |      |
|                        | SPACING (mm) |      |      |      |      |
| Rafter Size            | 600          | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1280         | 1180 | 1110 | 1080 | 1010 |
| 90 x 42                | 1740         | 1610 | 1520 | 1470 | 1380 |
| 138 x 42               | 2660         | 2460 | 2330 | 2250 | 2120 |
| 185 x 42               | 3570         | 3300 | 3120 | 3010 | 2840 |
| 230 x 42               | 4440         | 4100 | 3880 | 3740 | 3520 |
| 280 x 42               | 5400         | 4990 | 4720 | 4560 | 4290 |

| N3 WIND – TILE ROOF    |              |      |      |      |      |
|------------------------|--------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |              |      |      |      |      |
| N3 WIND                | TILE ROOF    |      |      |      |      |
|                        | SPACING (mm) |      |      |      |      |
| Rafter Size            | 600          | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1280         | 1180 | 1110 | 1080 | 1010 |
| 90 x 42                | 1740         | 1610 | 1520 | 1470 | 1380 |
| 138 x 42               | 2660         | 2460 | 2330 | 2250 | 2120 |
| 185 x 42               | 3570         | 3300 | 3120 | 3010 | 2840 |
| 230 x 42               | 4440         | 4100 | 3880 | 3740 | 3520 |
| 280 x 42               | 5400         | 4990 | 4720 | 4560 | 4290 |

| N4 WIND – TILE ROOF    |              |      |      |      |      |
|------------------------|--------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |              |      |      |      |      |
| N4 WIND                | TILE ROOF    |      |      |      |      |
|                        | SPACING (mm) |      |      |      |      |
| Rafter Size            | 600          | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1280         | 1180 | 1110 | 1080 | 1010 |
| 90 x 42                | 1740         | 1610 | 1520 | 1470 | 1380 |
| 138 x 42               | 2660         | 2460 | 2330 | 2250 | 2120 |
| 185 x 42               | 3570         | 3300 | 3120 | 3010 | 2820 |
| 230 x 42               | 4410         | 4100 | 3840 | 3610 | 3230 |
| 280 x 42               | 5100         | 4480 | 4080 | 3830 | 3430 |

| N5 WIND – TILE ROOF    |              |      |      |      |      |
|------------------------|--------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |              |      |      |      |      |
| N5 WIND                | TILE ROOF    |      |      |      |      |
|                        | SPACING (mm) |      |      |      |      |
| Rafter Size            | 600          | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1190         | 1080 | 990  | 940  | 860  |
| 90 x 42                | 1620         | 1480 | 1360 | 1290 | 1170 |
| 138 x 42               | 2480         | 2290 | 2110 | 1970 | 1800 |
| 185 x 42               | 3320         | 2960 | 2670 | 2500 | 2230 |
| 230 x 42               | 3830         | 3350 | 3030 | 2840 | 2520 |
| 280 x 42               | 4060         | 3550 | 3220 | 3020 | 2680 |

| N6 WIND – TILE ROOF    |              |      |      |      |      |
|------------------------|--------------|------|------|------|------|
| MAXIMUM RAFTER SPAN F7 |              |      |      |      |      |
| N6 WIND                | TILE ROOF    |      |      |      |      |
|                        | SPACING (mm) |      |      |      |      |
| Rafter Size            | 600          | 760  | 900  | 1000 | 1200 |
| 66 x 42                | 1030         | 920  | 840  | 800  | 730  |
| 90 x 42                | 1430         | 1250 | 1150 | 1090 | 990  |
| 138 x 42               | 2230         | 1960 | 1760 | 1670 | 1520 |
| 185 x 42               | 2850         | 2480 | 2230 | 2080 | 1890 |
| 230 x 42               | 3230         | 2810 | 2530 | 2370 | 2130 |
| 280 x 42               | 3420         | 2980 | 2690 | 2520 | 2250 |

**F7 VERANDAH BEAMS – 42mm**

**SHEET ROOF**

| N1/N2 WIND – SHEET ROOF         |                      |      |      |      |      |      |      |      |      |
|---------------------------------|----------------------|------|------|------|------|------|------|------|------|
| MAXIMUM VERANDAH BEAM SPAN (mm) |                      |      |      |      |      |      |      |      |      |
| N1 WIND<br>N2 WIND              | SHEET ROOF           |      |      |      |      |      |      |      |      |
|                                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm)                 | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 138 x 42                        | 2920                 | 2920 | 2830 | 2640 | 2450 | 2300 | 2180 | 2070 | 1980 |
| 185 x 42                        | 3920                 | 3740 | 3560 | 3270 | 3040 | 2860 | 2710 | 2570 | 2460 |
| 230 x 42                        | 4690                 | 4410 | 4000 | 3680 | 3420 | 3210 | 3040 | 2890 | 2760 |
| 280 x 42                        | 5290                 | 4670 | 4220 | 3890 | 3620 | 3400 | 3210 | 3060 | 2920 |

| N3 WIND – SHEET ROOF            |                      |      |      |      |      |      |      |      |      |
|---------------------------------|----------------------|------|------|------|------|------|------|------|------|
| MAXIMUM VERANDAH BEAM SPAN (mm) |                      |      |      |      |      |      |      |      |      |
| N3 WIND                         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|                                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm)                 | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 138 x 42                        | 2800                 | 2470 | 2240 | 2060 | 1910 | 1800 | 1700 | 1620 | 1550 |
| 185 x 42                        | 2480                 | 3070 | 2770 | 2550 | 2380 | 2230 | 2110 | 2010 | 1920 |
| 230 x 42                        | 3910                 | 3450 | 3120 | 2870 | 2670 | 2510 | 2370 | 2260 | 2160 |
| 280 x 42                        | 4130                 | 3640 | 3300 | 3030 | 2820 | 2650 | 2510 | 2380 | 2280 |

| N4 WIND – SHEET ROOF            |                      |      |      |      |      |      |      |      |      |
|---------------------------------|----------------------|------|------|------|------|------|------|------|------|
| MAXIMUM VERANDAH BEAM SPAN (mm) |                      |      |      |      |      |      |      |      |      |
| N4 WIND                         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|                                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm)                 | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 138 x 42                        | 2260                 | 2000 | 1810 | 1660 | 1550 | 1450 | 1370 | 1310 | 1250 |
| 185 x 42                        | 2810                 | 2480 | 2240 | 2060 | 1920 | 1800 | 1710 | 1620 | 1550 |
| 230 x 42                        | 3160                 | 2790 | 2520 | 2320 | 2160 | 2030 | 1920 | 1820 | 1740 |
| 280 x 42                        | 3340                 | 2940 | 2660 | 2450 | 2280 | 2140 | 2030 | 1930 | 1840 |

| N5 WIND – SHEET ROOF            |                      |      |      |      |      |      |      |      |      |
|---------------------------------|----------------------|------|------|------|------|------|------|------|------|
| MAXIMUM VERANDAH BEAM SPAN (mm) |                      |      |      |      |      |      |      |      |      |
| N5 WIND                         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|                                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm)                 | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 138 x 42                        | 1850                 | 1630 | 1480 | 1360 | 1260 | 1190 | 1120 | 1070 | 1020 |
| 185 x 42                        | 2300                 | 2020 | 1830 | 1680 | 1570 | 1470 | 1390 | 1330 | 1270 |
| 230 x 42                        | 2580                 | 2280 | 2060 | 1890 | 1760 | 1660 | 1570 | 1490 | 1420 |
| 280 x 42                        | 2730                 | 2410 | 2180 | 2000 | 1860 | 1750 | 1660 | 1570 | 1500 |

| N6 WIND – SHEET ROOF            |                      |      |      |      |      |      |      |      |      |
|---------------------------------|----------------------|------|------|------|------|------|------|------|------|
| MAXIMUM VERANDAH BEAM SPAN (mm) |                      |      |      |      |      |      |      |      |      |
| N6 WIND                         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|                                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm)                 | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 138 x 42                        | 1580                 | 1400 | 1260 | 1160 | 1080 | 1020 | 960  | 910  | 870  |
| 185 x 42                        | 1970                 | 1730 | 1570 | 1440 | 1340 | 1260 | 1190 | 1130 | 1080 |
| 230 x 42                        | 2210                 | 1950 | 1760 | 1620 | 1510 | 1420 | 1340 | 1280 | 1220 |
| 280 x 42                        | 2340                 | 2060 | 1860 | 1710 | 1600 | 1500 | 1420 | 1350 | 1290 |

NOTES: Roof Load Width = Roof Span + Overhang | Maximum Overhang = 450mm  
| See Technical Drawings P7

## F7 VERANDAH BEAMS - 42mm

## TILE ROOF

### N1/N2/N3 WIND – TILE ROOF

#### MAXIMUM VERANDAH BEAM SPAN (mm)

| N1 WIND<br>N2 WIND<br>N3 WIND | TILE ROOF            |      |      |      |      |      |
|-------------------------------|----------------------|------|------|------|------|------|
|                               | ROOF LOAD WIDTH (mm) |      |      |      |      |      |
| Size D x B (mm)               | 1200                 | 1800 | 2400 | 3000 | 4500 | 7500 |
| 138 x 42                      | 1500                 | -    | -    | -    | -    | -    |
| 185 x 42                      | 2450                 | 2100 | 1900 | 1700 | 1550 | -    |
| 230 x 42                      | 3000                 | 2600 | 2400 | 2200 | 1950 | 1650 |
| 280 x 42                      | 3400                 | 2850 | 2600 | 2400 | 2100 | 1800 |

NOTES: Roof Load Width = Roof Span + Overhang |  
Maximum Overhang = 450mm | See Technical Drawings P7

## GL8 VERANDAH BEAMS

## SHEET ROOF

### N1/N2 WIND – SHEET ROOF

#### MAXIMUM VERANDAH BEAM SPAN (mm)

| N1 WIND<br>N2 WIND | SHEET ROOF           |      |      |      |      |      |      |      |      |
|--------------------|----------------------|------|------|------|------|------|------|------|------|
|                    | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm)    | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 140 x 65           | 3160                 | 3000 | 2830 | 2640 | 2450 | 2300 | 2180 | 2070 | 1980 |
| 180 x 65           | 3990                 | 3740 | 3560 | 3410 | 3290 | 3090 | 2920 | 2780 | 2660 |
| 240 x 65           | 4690                 | 4410 | 4190 | 4020 | 3880 | 3760 | 3590 | 3420 | 3260 |
| 280 x 65           | 5440                 | 5110 | 4860 | 4660 | 4500 | 4360 | 4170 | 3970 | 3790 |

### N3 WIND – SHEET ROOF

#### MAXIMUM VERANDAH BEAM SPAN (mm)

| N3 WIND         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|------|------|------|
|                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm) | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 140 x 65        | 2800                 | 2470 | 2240 | 2060 | 1910 | 1800 | 1700 | 1620 | 1550 |
| 180 x 65        | 3590                 | 3310 | 3000 | 2760 | 2570 | 2410 | 2280 | 2170 | 2070 |
| 240 x 65        | 4230                 | 3970 | 3680 | 3390 | 3150 | 2960 | 2800 | 2660 | 2550 |
| 280 x 65        | 4900                 | 4600 | 4280 | 3930 | 3660 | 3440 | 3250 | 3100 | 2960 |

### N4 WIND – SHEET ROOF

#### MAXIMUM VERANDAH BEAM SPAN (mm)

| N4 WIND         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|------|------|------|
|                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm) | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 140 x 65        | 2260                 | 2000 | 1810 | 1660 | 1550 | 1450 | 1370 | 1310 | 1250 |
| 180 x 65        | 3040                 | 2680 | 2420 | 2230 | 2070 | 1950 | 1840 | 1750 | 1670 |
| 240 x 65        | 3730                 | 3290 | 2980 | 2740 | 2550 | 2390 | 2260 | 2150 | 2060 |
| 280 x 65        | 4330                 | 3820 | 3460 | 3180 | 2960 | 2780 | 2630 | 2500 | 2390 |

### N5 WIND – SHEET ROOF

#### MAXIMUM VERANDAH BEAM SPAN (mm)

| N5 WIND         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|------|------|------|
|                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm) | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 140 x 65        | 1850                 | 1630 | 1480 | 1360 | 1260 | 1190 | 1120 | 1070 | 1020 |
| 180 x 65        | 2480                 | 2190 | 1980 | 1820 | 1690 | 1590 | 1510 | 1430 | 1370 |
| 240 x 65        | 3050                 | 2690 | 2430 | 2240 | 2080 | 1960 | 1850 | 1760 | 1680 |
| 280 x 65        | 3540                 | 3120 | 2820 | 2600 | 2420 | 2270 | 2150 | 2040 | 1950 |

### N6 WIND – SHEET ROOF

#### MAXIMUM VERANDAH BEAM SPAN (mm)

| N6 WIND         | SHEET ROOF           |      |      |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|------|------|------|
|                 | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
| Size D x B (mm) | 600                  | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
| 140 x 65        | 1580                 | 1400 | 1260 | 1160 | 1080 | 1020 | 960  | 910  | 870  |
| 180 x 65        | 2120                 | 1870 | 1690 | 1560 | 1450 | 1360 | 1290 | 1230 | 1170 |
| 240 x 65        | 2610                 | 2300 | 2080 | 1910 | 1780 | 1670 | 1580 | 1510 | 1440 |
| 280 x 65        | 3030                 | 2670 | 2420 | 2220 | 2070 | 1950 | 1840 | 1750 | 1670 |

NOTES: Roof Load Width = Roof Span + Overhang | Maximum Overhang = 450mm | See Technical Drawings P7

## GL8 VERANDAH BEAMS

## TILE ROOF

### N1/N2/N3 WIND – TILE ROOF

#### MAXIMUM VERANDAH BEAM SPAN (mm)

| N1 WIND<br>N2 WIND<br>N3 WIND | TILE ROOF    |      |      |      |      |
|-------------------------------|--------------|------|------|------|------|
|                               | SPACING (mm) |      |      |      |      |
| Rafter Size                   | 1200         | 1500 | 1800 | 2400 | 3000 |
| 140 x 65                      | 2500         | 2400 | 2200 | 2100 | 1900 |
| 180 x 65                      | 2900         | 2800 | 2600 | 2400 | 2200 |
| 240 x 65                      | 4200         | 4000 | 3600 | 3200 | 3000 |
| 280 x 65                      | 4600         | 4200 | 4000 | 3600 | 3400 |

NOTES: Roof Load Width = Roof Span + Overhang | Maximum Overhang = 450mm | See Technical Drawings P7



## F7 RIDGE BEAMS - 42mm

## SHEET ROOF

| N1/N2 WIND – RIDGE BEAM F7   |                      |      |      |      |      |      |      |      |      |  |
|------------------------------|----------------------|------|------|------|------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |                      |      |      |      |      |      |      |      |      |  |
| N1 WIND<br>N2 WIND           | SHEET ROOF           |      |      |      |      |      |      |      |      |  |
|                              | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |  |
| Size D x B (mm)              | 1200                 | 1800 | 2400 | 3000 | 3600 | 4200 | 4800 | 5400 | 6000 |  |
| 66 x 42                      | 1040                 | 1040 | 1010 | 980  | 930  | 860  | 800  | 760  | 720  |  |
| 90 x 42                      | 1660                 | 1660 | 1550 | 1390 | 1260 | 1170 | 1100 | 1030 | 980  |  |
| 138 x 42                     | 2920                 | 2740 | 2380 | 2120 | 1940 | 1800 | 1680 | 1580 | 1500 |  |
| 185 x 42                     | 3860                 | 2480 | 3180 | 2850 | 2600 | 2410 | 2250 | 2120 | 2010 |  |
| 230 x 42                     | 4540                 | 4100 | 3820 | 3540 | 3230 | 2990 | 2800 | 2640 | 2500 |  |
| 280 x 42                     | 5260                 | 4750 | 4420 | 4180 | 3940 | 3640 | 3410 | 3210 | 3050 |  |

| N3 WIND – RIDGE BEAM F7      |                      |      |      |      |      |      |      |      |      |  |
|------------------------------|----------------------|------|------|------|------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |                      |      |      |      |      |      |      |      |      |  |
| N3 WIND                      | SHEET ROOF           |      |      |      |      |      |      |      |      |  |
|                              | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |  |
| Size D x B (mm)              | 1200                 | 1800 | 2400 | 3000 | 3600 | 4200 | 4800 | 5400 | 6000 |  |
| 66 x 42                      | 1040                 | 1020 | 890  | 790  | 720  | 670  | 630  | 590  | 560  |  |
| 90 x 42                      | 1660                 | 1400 | 1210 | 1080 | 990  | 910  | 850  | 810  | 760  |  |
| 138 x 42                     | 2640                 | 2410 | 1850 | 1660 | 1510 | 1400 | 1310 | 1240 | 1170 |  |
| 185 x 42                     | 3480                 | 2870 | 2480 | 2220 | 2030 | 1880 | 1760 | 1660 | 1570 |  |
| 230 x 42                     | 4090                 | 3570 | 3090 | 2760 | 2520 | 2330 | 2180 | 2060 | 1950 |  |
| 280 x 42                     | 4740                 | 4290 | 3760 | 3360 | 3070 | 2840 | 2660 | 2510 | 2380 |  |

| N4 WIND – RIDGE BEAM F7      |                      |      |      |      |      |      |      |      |      |  |
|------------------------------|----------------------|------|------|------|------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |                      |      |      |      |      |      |      |      |      |  |
| N4 WIND                      | SHEET ROOF           |      |      |      |      |      |      |      |      |  |
|                              | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |  |
| Size D x B (mm)              | 1200                 | 1800 | 2400 | 3000 | 3600 | 4200 | 4800 | 5400 | 6000 |  |
| 66 x 42                      | 1010                 | 830  | 720  | 640  | 580  | 540  | 510  | 480  | 450  |  |
| 90 x 42                      | 1380                 | 1130 | 980  | 870  | 800  | 740  | 690  | 650  | 620  |  |
| 138 x 42                     | 2120                 | 1730 | 1500 | 1340 | 1220 | 1130 | 1060 | 1000 | 950  |  |
| 185 x 42                     | 2900                 | 2320 | 2010 | 1800 | 1640 | 1520 | 1420 | 1340 | 1270 |  |
| 230 x 42                     | 3670                 | 2880 | 2500 | 2230 | 2040 | 1890 | 1770 | 1660 | 1580 |  |
| 280 x 42                     | 4300                 | 3510 | 3040 | 2720 | 2480 | 2300 | 2150 | 2030 | 1920 |  |

| N5 WIND – RIDGE BEAM F7      |                      |      |      |      |      |      |      |      |      |  |
|------------------------------|----------------------|------|------|------|------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |                      |      |      |      |      |      |      |      |      |  |
| N5 WIND                      | SHEET ROOF           |      |      |      |      |      |      |      |      |  |
|                              | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |  |
| Size D x B (mm)              | 1200                 | 1800 | 2400 | 3000 | 3600 | 4200 | 4800 | 5400 | 6000 |  |
| 66 x 42                      | 830                  | 680  | 590  | 520  | 480  | 440  | 410  | 390  | 370  |  |
| 90 x 42                      | 1130                 | 920  | 800  | 710  | 650  | 600  | 560  | 530  | 500  |  |
| 138 x 42                     | 1730                 | 1410 | 1220 | 1090 | 1000 | 920  | 870  | 820  | 770  |  |
| 185 x 42                     | 2320                 | 1890 | 1640 | 1470 | 1340 | 1240 | 1160 | 1090 | 1040 |  |
| 230 x 42                     | 2950                 | 2350 | 2040 | 1820 | 1670 | 1540 | 1440 | 1360 | 1290 |  |
| 280 x 42                     | 3650                 | 2870 | 2480 | 2220 | 2030 | 1880 | 1760 | 1660 | 1570 |  |

| N6 WIND – RIDGE BEAM F7      |                      |      |      |      |      |      |      |      |      |  |
|------------------------------|----------------------|------|------|------|------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |                      |      |      |      |      |      |      |      |      |  |
| N6 WIND                      | SHEET ROOF           |      |      |      |      |      |      |      |      |  |
|                              | ROOF LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |  |
| Size D x B (mm)              | 1200                 | 1800 | 2400 | 3000 | 3600 | 4200 | 4800 | 5400 | 6000 |  |
| 66 x 42                      | 710                  | 580  | 500  | 450  | 410  | 380  | 350  | 330  | 320  |  |
| 90 x 42                      | 970                  | 790  | 680  | 610  | 560  | 520  | 480  | 460  | 430  |  |
| 138 x 42                     | 1480                 | 1210 | 1050 | 940  | 860  | 790  | 740  | 700  | 660  |  |
| 185 x 42                     | 1990                 | 1620 | 1400 | 1260 | 1150 | 1060 | 990  | 940  | 890  |  |
| 230 x 42                     | 2480                 | 2020 | 1750 | 1560 | 1430 | 1320 | 1230 | 1160 | 1100 |  |
| 280 x 42                     | 3090                 | 2450 | 2130 | 1900 | 1740 | 1610 | 1500 | 1420 | 1340 |  |

NOTES: Max Ridge Load Width = Span / 2 | See Technical Drawings P7

## F7 RIDGE BEAMS - 42mm

## TILE ROOF

| N1/N2 WIND – TILE ROOF       |              |      |      |      |      |  |
|------------------------------|--------------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |              |      |      |      |      |  |
| N1 WIND<br>N2 WIND           | TILE ROOF    |      |      |      |      |  |
|                              | SPACING (mm) |      |      |      |      |  |
| Size D x B (mm)              | 1500         | 3000 | 4500 | 6000 | 7500 |  |
| 138 x 42                     | 2000         | 1500 | 1300 | 1100 | 1000 |  |
| 185 x 42                     | 2600         | 2000 | 1700 | 1500 | 1400 |  |
| 230 x 42                     | 3150         | 2500 | 2100 | 1900 | 1800 |  |
| 280 x 42                     | 4500         | 3600 | 3000 | 2700 | 2500 |  |

| N3 WIND – TILE ROOF          |              |      |      |      |      |  |
|------------------------------|--------------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |              |      |      |      |      |  |
| N3 WIND                      | TILE ROOF    |      |      |      |      |  |
|                              | SPACING (mm) |      |      |      |      |  |
| Size D x B (mm)              | 1500         | 3000 | 4500 | 6000 | 7500 |  |
| 138 x 42                     | 1900         | 1450 | 1250 | 1050 | 950  |  |
| 185 x 42                     | 2500         | 2000 | 1600 | 1500 | 1400 |  |
| 230 x 42                     | 3100         | 2450 | 2100 | 1850 | 1700 |  |
| 280 x 42                     | 4500         | 3500 | 3100 | 2650 | 2400 |  |

| N4 WIND – TILE ROOF          |              |      |      |      |      |  |
|------------------------------|--------------|------|------|------|------|--|
| MAXIMUM ALLOWABLE SPANS (mm) |              |      |      |      |      |  |
| N4 WIND                      | TILE ROOF    |      |      |      |      |  |
|                              | SPACING (mm) |      |      |      |      |  |
| Size D x B (mm)              | 1500         | 3000 | 4500 | 6000 | 7500 |  |
| 138 x 42                     | 1900         | 1450 | 1250 | 1050 | 950  |  |
| 185 x 42                     | 2500         | 2000 | 1650 | 1500 | 1350 |  |
| 230 x 42                     | 3150         | 2450 | 2150 | 1750 | 1600 |  |
| 280 x 42                     | 3700         | 2800 | 2500 | 2000 | 1800 |  |

## F7 INTERNAL FLOOR JOISTS - 42mm

## F7 DECK JOISTS - 42mm

## SINGLE SPAN

| F7 KPa LIVE LOAD     |                            |      |      |
|----------------------|----------------------------|------|------|
| ALLOWABLE SPANS (mm) |                            |      |      |
| Size D x B (mm)      | MAXIMUM JOIST SPACING (mm) |      |      |
|                      | 400                        | 450  | 600  |
| 66 x 42              | 1060                       | 1050 | 1030 |
| 90 x 42              | 1450                       | 1450 | 1420 |
| 138 x 42             | 2260                       | 2250 | 2220 |
| 185 x 42             | 3060                       | 3050 | 3010 |
| 230 x 42             | 3830                       | 3810 | 3770 |
| 280 x 42             | 4700                       | 4670 | 4620 |

NOTES: Spans may be increased by 10% when continuous over 2 or more spans. See Technical Drawings P7

| 3.0 KPa LIVE LOAD    |                            |      |      |
|----------------------|----------------------------|------|------|
| ALLOWABLE SPANS (mm) |                            |      |      |
| Size D x B (mm)      | MAXIMUM JOIST SPACING (mm) |      |      |
|                      | 400                        | 450  | 600  |
| 66 x 42              | 1000                       | 1000 | 950  |
| 90 x 42              | 1450                       | 1400 | 1300 |
| 138 x 42             | 2200                       | 2100 | 2000 |
| 185 x 42             | 3000                       | 2900 | 2600 |
| 230 x 42             | 3600                       | 3500 | 3300 |
| 280 x 42             | 4100                       | 4000 | 3700 |

NOTES: Spans may be increased by 10% when continuous over 2 or more spans. See Technical Drawings P7

## F7 DECK BEARERS - 42mm

3.0 KPa LIVE LOAD

### MAXIMUM ALLOWABLE SPANS (mm)

| Size D x B (mm) | FLOOR LOAD WIDTH (mm) |      |      |      |      |      |      |      |      |
|-----------------|-----------------------|------|------|------|------|------|------|------|------|
|                 | 1200                  | 1800 | 2400 | 3000 | 3600 | 4200 | 4800 | 5400 | 6000 |
| 138 x 42        | 1530                  | 1250 | 1100 | 1000 | 920  | 860  | 810  | 770  | 730  |
| 185 x 42        | 2070                  | 1730 | 1530 | 1380 | 1270 | 1180 | 1110 | 1050 | 1000 |
| 230 x 42        | 2640                  | 2210 | 1940 | 1750 | 1610 | 1490 | 1400 | 1330 | 1260 |
| 280 x 42        | 3290                  | 2730 | 2390 | 2160 | 1980 | 1840 | 1730 | 1630 | 1550 |

NOTES: Spans may be increased by 10% when continuous over 2 or more spans  
Max Floor Load Width =  $(X + Y)/2$  | See Technical Drawings P7

## GL8 DECK BEARERS

## SINGLE SPAN

3.0 KPa LIVE LOAD

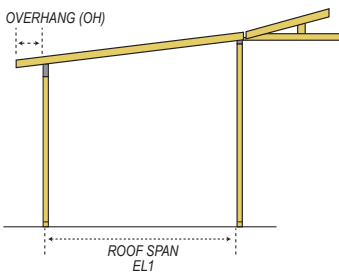
### MAXIMUM ALLOWABLE SPANS (mm)

| Size D x B (mm) | FLOOR LOAD WIDTH (mm) |      |      |      |      |      |
|-----------------|-----------------------|------|------|------|------|------|
|                 | 1200                  | 1800 | 2400 | 3000 | 3600 | 4200 |
| 140 x 65        | 1950                  | 1650 | 1450 | 1320 | 1210 | 1120 |
| 180 x 65        | 2580                  | 2160 | 1890 | 1720 | 1570 | 1460 |
| 240 x 65        | 3500                  | 2920 | 2550 | 2310 | 2110 | 1960 |
| 280 x 65        | 4130                  | 3440 | 3000 | 2710 | 2480 | 2290 |

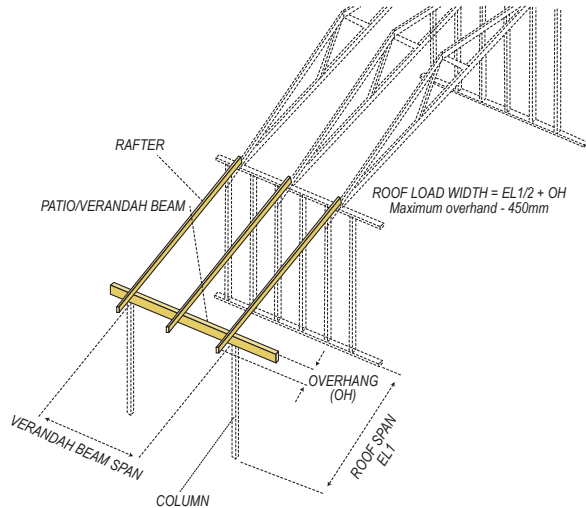
NOTES: Spans may be increased by 10% when continuous over 2 or more spans  
Max Floor Load Width =  $(X + Y)/2$  | See Technical Drawings P7

## TECHNICAL DRAWINGS

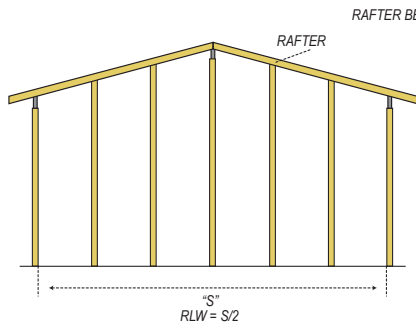
VERANDAH BEAM ELEVATION



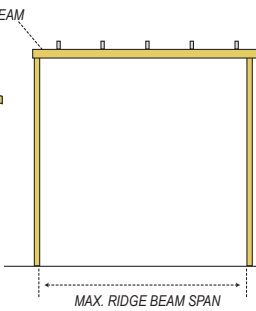
VERANDAH BEAMS



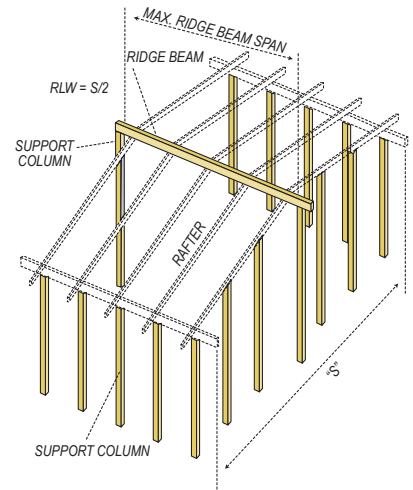
RIDGE BEAM ELEVATION



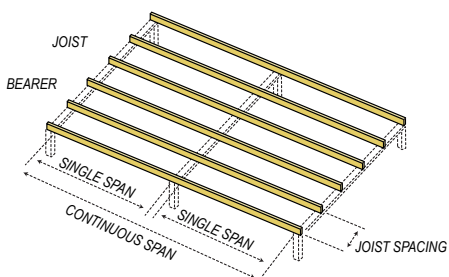
RIDGE BEAM SECTION



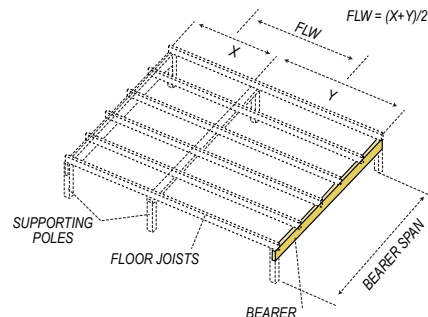
RIDGE BEAMS



INTERNAL FLOOR JOISTS AND DECK JOISTS



DECK BEARERS



RAFTERS AND BATTENS

