## MEGAjoist SPAN TABLES:

| | | FLOOR JOISTS (450 CTS) | | RAFTERS raked at 1 to 2.5° (Sheet roof) | |
|---|---|---|---|---|---|
| | | 1.5 KPa | 3.0 KPa* | 600 CTS | 900 CTS |
| JOIST | Flanges | MAX. SPAN | MAX. SPAN | MAX. SPAN | MAX. SPAN |
| MJ250 | 90 x 45 MGP10 pine | 4500 | 4000 | 5400 | 5100 |
| MJ300 | 90 x 45 MGP10 pine | 5000 | 4300 | 5800 | 5500 |
| MJ350 | 90 x 45 MGP10 pine | 5500 | 4800 | 6500 | 6100 |
| MJ400 | 90 x 45 MGP10 pine | 6000 | 5200 | 7000 | 6500 |
| MJ450 | 90 x 45 MGP10 pine | 6500 | 5800 | 7500 | 7000 |

**Note: 3kPa trusses should have 190 x45 web blocks ***

| | | ALL FLOOR LOADS (UPTO 3.0kPa* LL) | | | |
|---|---|---|---|---|---|
| | | 450 CTS | | | |
| JOIST | Flanges | MAX. SPAN | O/HANG | | |
| MJ250 | 90 x 45 MGP10 pine | 4000 | 1600 | | |
| MJ300 | 90 x 45 MGP10 pine | 4300 | 1800 | | |
| MJ350 | 90 x 45 MGP10 pine | 4800 | 2000 | | |
| MJ400 | 90 X 45 MGP10 pine | 5200 | 2200 | | |
| MJ450 | 90 x 45 MGP10 pine | 5800 | 2400 | | |

**Note:** In compiling the span tables in this manual, the requirements of the relevant Australian standards and codes along with established industry standard design guidelines for Residential/commercial construction have been followed. In a particular, the following codes and references have been used:

- AS 1720.1 Timber Structure – design methods
- AS1170.1 Structural design actions-permanent imposed and other actions

### SEVICEABILITY CRITERIA

Max Dead load deflection - lesser of span/300 or 12mm ($j_2 = 2$)

Max Dead & Live load deflection – lesser of span/300 or 12mm for roofs of 7mm for floors.

The 7mm maximum full dead and live load deflection criteria results in a stiff floor system.