Joist Table for Sab Soffit Formwork

Joist Spacing (mm)		Maximum Single Span (m)						Maximum Multiple Span (m)					
Slab Thickness(mm)	Section Size	225	300	400	450	480	600	225	300	400	450	480	600
100	95x45	1.9	1.7	1.6	1.5	1.5	1.4	2.3	2.1	1.9	1.9	1.8	1.7
	95x65	2.1	1.9	1.8	1.7	1.7	1.5	2.6	2.4	2.2	2.1	2.1	1.9
150	95x45	1.8	1.6	1.5	1.4	1.4	1.3	2.2	2.0	1.8	1.8	1.7	1.6
	95x65	2.0	1.8	1.7	1.6	1.6	1.5	2.5	2.3	2.1	2.0	2.0	1.8
200	95x45	1.7	1.5	1.4	1.4	1.3	1.2	2.1	1.9	1.8	1.7	1.6	1.5
	95x65	1.9	1.7	1.6	1.5	1.5	1.4	2.4	2.2	2.0	1.9	1.9	1.7
300	95x45	1.6	1.4	1.3	1.3	1.2	1.1	2.0	1.8	1.6	1.5	1.5	1.3
	95x65	1.8	1.6	1.5	1.4	1.4	1.3	2.2	2.0	1.8	1.8	1.7	1.6
400	95x45	1.5	1.3	1.2	1.2	1.2	1.1	1.8	1.7	1.5	1.4	1.4	1.2
	95x65	1.7	1.5	1.4	1.3	1.3	1.2	2.1	1.9	1.7	1.7	1.6	1.5
600	95x45	1.3	1.2	1.1	1.1	1.0	0.9	1.7	1.5	1.3	1.2	1.1	0.9
	95x65	1.5	1.4	1.2	1.2	1.2	1.1	1.9	1.7	1.6	1.5	1.4	1.3
1000	95x45	1.2	1.1	1.0	0.9	0.9	0.7	1.4	1.2	0.9	0.8	0.7	0.6
	95x65	1.3	1.2	1.1	1.0	1.0	0.9	1.6	1.5	1.3	1.1	1.1	0.8

Bearer Table for Slab Soffit Formwork

Joist Spacing (m)		Maximum Single Span (m)						Maximum Multiple Span (m)					
Slab Thickness(mm)	Section Size	0.9	1.2	1.5	1.8	2.1	2.4	0.9	1.2	1.5	1.8	2.1	2.4
100	95x45	1.1	1.0	1.0	0.9	0.8	0.7	1.4	1.1	0.9	0.8	0.6	0.6
	95x65	1.3	1.2	1.1	1.0	1.0	0.9	1.7	1.4	1.3	1.1	0.9	0.8
150	95x45	1.1	1.0	0.9	0.8	0.7	0.6	1.3	1.2	0.8	0.6	0.6	0.5
	95x65	1.2	1.1	1.0	1.0	0.9	0.8	1.5	1.3	1.1	0.9	0.8	0.7
200	95x65	1.2	1.1	1.0	0.9	0.8	0.7	1.5	1.2	1.0	0.8	0.7	0.6

Notes for Joist and Bearer Tables

1. Joist and bearer tables include 4 kPa allowance for stacked materials in accordance with section 4 of AS 3610. Load is additional to other live loads.
2. The deflections of the joists and bearers have been limited to those required for a class 3 finish (the greater of the span/270 and 3mm). A class 3 finish cannot be guaranteed as it is dependent on other factors including form face quality, support deformations and the accuracy of the setup.
3. For multiple spans, the design has assumed the most conservative of 3 and that all spans are of equal length and equally loaded.
4. The design has assumed that joists are continually restrained by the sheeting and the bearers are restrained by the joists.
5. The thickness of the bearer must be equal to or greater than the thickness of the joist it supports to satisfy the bearing requirements of the timber.
6. 6.Span values may be interpolated for intermediate slab thicknesses.