E-5.2 Loading and Deflection

Taking the maximum permitted deflection as 1 : 270 (that is 1/270th of the span between the bearers), the following loads, in kg/m^2, are arrived at; the maximum load permitted is given provided that the face grain of the plywood is perpendicular to the length of bearers:

Centre Distance of Bearers (Span) mm (1)	*9 mm Thickness* kg/m^2 (2)	*12 mm Thickness* kg/m^2 (3)
300	1 270	1 950
400	540	850
450	320	640
600	170	360

E-5.2.1 When the face grain of plywood is parallel to the bearers, the permissible load may be as follows:

Centre Distance of Bearers (Span) mm (1)	*9 mm Thickness* kg/m^2 (2)	*12 mm Thickness* kg/m^2 (3)
300	760	1 220
400	320	540
450	195	390
600	110	170

NOTES

1 The above loads apply when the concrete is laid on concrete shuttering plywood as in slabs and beams. The same thickness of concrete in a wall can be held without excess deflection by thinner boards.

2 The maximum loads should be reduced to 75 percent, if wet boards are used.