

Rib and Timber Infill

LOAD SPAN TABLE 2: Unfactored Super imposed live load capacity in kPa.

Safe super imposed live load, in kilopascals (kPa). Ribs are spacing 800mm centre to centre with 75mm or 100mm topping on 25mm timber infill, assuming superimposed dead loads (SDL) on the composite section of 0.5 kPa. The load cases in the tables below are based on a simple supported condition. Higher loads can be achieved by providing continuity or increasing the topping thickness. For floors to the right of the solid line will have frequency levels that are less than 4.8Hz and are potentially lively

NOTE: These tables are a design guide only. The load capacities given satisfy code requirements for ultimate limit state design. Serviceability limits will vary depending on the floor use. For selections at the span limits of the table serviceability checks for deflection and liveliness should be done by the design engineer.

Consult Formstress Precast for any specific design requirements.

75mm Topping																	
Rib Depth	O/A Floor Depth	Self Weight (kPa)	Span (m)														
			5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0
110	210	2.59	7.2	5.2	3.6	2.4											
125	225	2.67		8.1	6.2	4.6	3.3	2.3									
150	250	2.81			7.7	6.1	4.6	3.4	2.4								
175	275	2.95				13.8	11.5	9.4	7.3	6.2	5.0						
200	300	3.09					13.4	11.3	9.3	7.7	6.3	5.1	4.1				
225	325	3.23						17.1	14.4	12.2	10.3	8.7	7.3	6.1			
250	350	3.37							16.9	14.6	12.5	10.7	9.1	7.7	6.5		
275	375	3.52								16.6	14.4	12.3	10.6	9.1	7.7	6.6	
300	400	3.67									16.1	14.0	12.1	10.4	8.9	7.7	6.6
325	425	3.82										15.7	13.6	11.7	10.2	8.8	7.5
350	450	3.97											15.1	13.1	11.4	9.9	8.5
100mm Topping																	
Rib Depth	O/A Floor Depth	Self Weight (kPa)	Span (m)														
			5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0
110	235	3.22	8.3	6.0	4.2	2.7											
125	250	3.30		9.3	7.0	5.1	3.7	2.5									
150	275	3.44			8.6	6.7	5.0	3.6	2.5								
175	300	3.58				15.6	12.8	10.4	8.4	6.8	5.4						
200	325	3.72					14.9	12.5	10.2	8.4	6.8	5.5	4.4				
225	350	3.86						19.3	16.5	14.0	11.8	10.0	8.4	7.0			
250	375	4.00							18.7	16.2	13.8	11.7	9.9	8.4	7.1		
275	400	4.15								18.1	15.8	13.5	11.5	9.8	8.4	7.1	
300	425	4.30									17.5	15.3	13.1	11.2	9.6	8.2	7.0
325	450	4.45										16.8	14.7	12.7	10.9	9.4	8.0
350	475	4.60											16.2	14.1	12.2	10.5	8.5