

HIBOND 80 LOAD SPAN TABLES

Maximum formwork and composite floor slab spans are presented for composite floor slab thickness between 150mm and 230mm for a range of live load, superimposed dead load combinations and mesh reinforcing arrangements to achieve a Fire Resistance Rating (FRR) of 60 minutes.

The following notes apply to the load tables in this section.

- 1) Span: L is the span measured centre to centre between permanent supports.
- 2) The design superimposed load combination is $G_{SD} + Q$ must not be greater than the superimposed loads given in the tables.
- 3) Some values shown in the double span tables are less than corresponding values given in the single span tables. The situation arises as combined effects limit.
- 4) Linear interpolation is permitted between intermediate composite floor slab thicknesses.
- 5) Tables for propped spans are based on 1 row of continuous temporary propping at mid-span.

Formwork

- a. 150mm support width and a 100mm wide prop width is assumed.
- b. Imposed construction loads are to AS/NZS 2327:2017.
- c. Normal weight concrete: wet density = 2400kg/m³.
- d. Construction stage deflection span/130 or 30mm (ponding has been taken into account).
- e. The design span of the formwork relates closely to the site installation. If the Hibond 80 sheet is designed as an end span or internal span, the minimum nominal steel decking sheet length for construction should be noted clearly in the design documentation to ensure that appropriate steel decking sheet lengths are used by the installer to achieve the span type selected. Refer Flooring Installation 3.6.

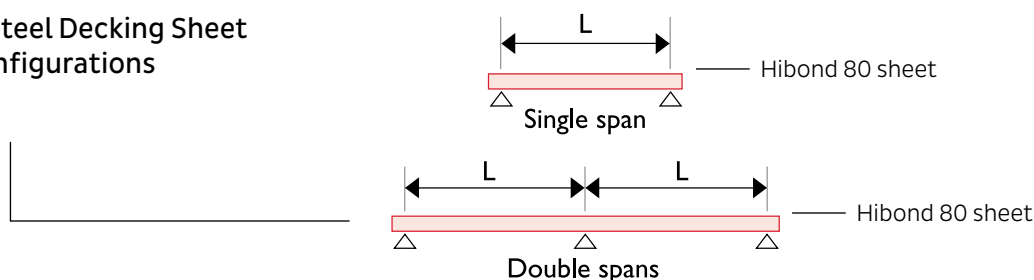
Composite Floor Slab

- a. Normal weight concrete: dry density 2350kg/m³. Modular ratio = 10 used for superimposed live load (Q) 1.5kPa, 2.5kPa and 3.0kPa. Modular ratio = 18 used for superimposed live load (Q) 5.0kPa and above.
- b. Composite floor slab moment resistance based on partial connection method with an assumed characteristic shear bond value of $\tau_{u,Rk} = 0.107\text{MPa}$.
- c. Composite stage deflection limits: Imposed load, span/350 or 20mm; Total load, span/250 or 30mm:
- d. Vibration : Natural frequency limit of 5.0Hz based on the cracked dynamic second moment of area using the dead loads plus 10% of the imposed loads (the proportion of imposed loads that may be considered to be permanent). Propped formwork spans have been limited to 80% utilisation for vibration.
- e. The composite floor slab is assumed to be acting as simply supported spans in the tables.

Fire

- a. Mesh requirements for composite floor slabs enclosed within a building (with 30mm concrete cover) have been provided to achieve a FRR of 60 minutes (in conjunction with nominated bottom reinforcing bars where required for propped spans).
- b. A superimposed dead load (G_{SD}) of 0.5kPa only has been used for all fire rating combinations.
- c. FRR of 90 and 120 minutes can be achieved with the additional of extra reinforcement mesh and bottom reinforcing bars by using the Hibond 80 Composite Design Software. Other situations or concrete covers require specific design.
- d. Live load factor $\psi_L = 0.4$ for all loads.
- e. Reinforcement is grade 500 to AS/NZS4671, assumed continuous.
- f. Moment capacity determined in accordance with NZS3101.
- g. Minimum cover to bottom reinforcing bars is 25mm to the bottom of the steel decking sheet and 40mm to the side of the steel decking sheet rib.

Typical Steel Decking Sheet Span Configurations



0.75mm Hibond 80 - Constructed as Unpropped Single Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.63	SE82	3.71 ⁴	3.71	3.71	3.62	8.0
160	0.12	2.86	SE82	3.60	3.60	3.60	3.60	9.0
170	0.13	3.09	SE82	3.52	3.52	3.52	3.52	10.0
180	0.14	3.32	SE92	3.44	3.44	3.44	3.44	11.0
190	0.15	3.55	SE92	3.36	3.36	3.36	3.36	12.0
200	0.16	3.78	SE92	3.30	3.30	3.30	3.30	13.0
210	0.17	4.01	SE92	3.24	3.24	3.24	3.24	14.0
220	0.18	4.24	SE92	3.18	3.18	3.18	3.18	15.0
230	0.19	4.47	SE72 x 2	3.13	3.13	3.13	3.13	16.0

0.75mm Hibond 80 - Constructed as Unpropped Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.63	SE82	3.57	3.57	3.57	3.57	9.0
160	0.12	2.86	SE82	3.45	3.45	3.45	3.45	10.0
170	0.13	3.09	SE82	3.34	3.34	3.34	3.34	11.0
180	0.14	3.32	SE92	3.24	3.24	3.24	3.24	12.0
190	0.15	3.55	SE92	3.14	3.14	3.14	3.14	13.5
200	0.16	3.78	SE92	3.03	3.03	3.03	3.03	15.0
210	0.17	4.01	SE92	2.99	2.99	2.99	2.99	16.5
220	0.18	4.24	SE92	2.92	2.92	2.92	2.92	17.5
230	0.19	4.47	SE72 x 2	2.83	2.91	2.91	2.91	19.0

0.75mm Hibond 80 - Constructed as Propped Single or Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Propped Composite Floor Slab Limitation (minimum one row of continuous propping at mid-span)	Superimposed Live Load, Q (kPa)			
					1.5	2.5	3	5
					Superimposed Dead Load ² , G _{SDL} (kPa)			
					0.8	0.1	0.8	0.5
Maximum Composite Floor Span, L (m)								
150	0.11	2.63	SE92	Ambient Temperature ⁴	5.42	5.68	5.37	4.44
				FRR 60 Minutes ⁵	5.38	5.12	5.01	4.44
160	0.12	2.86	SE72 x 2	Ambient Temperature ⁴	5.60	5.83	5.54	4.68
				FRR 60 Minutes ⁵	5.39	5.14	5.03	4.65
170	0.13	3.09	SE72 x 2	Ambient Temperature ⁴	5.76	5.79	5.71	4.83
				FRR 60 Minutes ⁵	5.39	5.15	5.05	4.68
180	0.14	3.32	SE62 + SE92	Ambient Temperature ⁴	5.60	5.60	5.60	4.92
				FRR 60 Minutes ⁵	5.00	5.03	4.93	4.59
190	0.15	3.55	SE62 + SE92	Ambient Temperature ⁴	5.41	5.41	5.41	5.04
				FRR 60 Minutes ⁵	4.98	5.03	4.93	4.60
200	0.16	3.78	SE82 x 2	Ambient Temperature ⁴	5.30	5.30	5.30	5.12
				FRR 60 Minutes ⁵	4.97	4.79	4.70	4.89
210	0.17	4.01	SE82 + SE92	Ambient Temperature ⁴	5.12	5.12	5.12	5.12
				FRR 60 Minutes ⁵	4.96	4.78	4.70	4.63
220	0.18	4.24	SE82 + SE92	Ambient Temperature ⁴	4.93	4.93	4.93	4.93
				FRR 60 Minutes ⁵	4.93	4.78	4.70	4.42
230	0.19	4.47	SE92 x 2	Ambient Temperature ⁴	4.80	4.80	4.80	4.80
				FRR 60 Minutes ⁵	4.80	4.80	4.80	4.54

Notes:

- Crack control steel is the minimum continuous D500 Mesh required for a composite floor slab enclosed within a building.
- To achieve FRR 60 minutes, a superimposed dead load of 0.5kPa is assumed for all load combinations.
- Maximum load (G_{SDL} + Q) limited by composite floor slab capacity under ambient temperature conditions.
- Spans possible to the maximum load (G_{SDL} + Q) indicated under ambient temperature conditions using minimum continuous crack control mesh.
- Spans possible to the maximum load (G_{SDL} + Q) indicated to achieve FRR 60 minutes using the nominated bottom ductile reinforcing bars in the steel decking sheet pans.

0.95mm Hibond 80 – Constructed as Unpropped Single Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.65	SE82	3.79	3.79	3.79	3.79	10.5
160	0.12	2.88	SE82	3.69	3.69	3.69	3.69	11.5
170	0.13	3.11	SE82	3.59	3.59	3.59	3.59	13.0
180	0.14	3.34	SE92	3.52	3.52	3.52	3.52	14.0
190	0.15	3.57	SE92	3.44	3.44	3.44	3.44	15.0
200	0.16	3.81	SE92	3.38	3.38	3.38	3.38	16.0
210	0.17	4.04	SE92	3.31	3.31	3.31	3.31	17.0
220	0.18	4.27	SE92	3.26	3.26	3.26	3.26	18.0
230	0.19	4.50	SE72 x 2	3.20	3.20	3.20	3.20	19.0

0.95mm Hibond 80 – Constructed as Unpropped Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.65	SE82	4.28 ⁴	4.28	4.20	3.88	7.0
160	0.12	2.88	SE82	4.15 ⁴	4.15	4.15	3.91	9.0
170	0.13	3.11	SE82	4.03 ⁴	4.03	4.03	3.93	10.0
180	0.14	3.34	SE92	3.91	3.91	3.91	3.91	11.0
190	0.15	3.57	SE92	3.81	3.81	3.81	3.81	12.0
200	0.16	3.81	SE92	3.71	3.71	3.71	3.71	13.0
210	0.17	4.04	SE92	3.62	3.62	3.62	3.62	14.5
220	0.18	4.27	SE92	3.54	3.54	3.54	3.54	15.5
230	0.19	4.50	SE72 x 2	3.46	3.46	3.46	3.46	16.5

0.95mm Hibond 80 – Constructed as Propped Single or Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Propped Composite Floor Slab Limitation (minimum one row of continuous propping at mid-span)	Superimposed Live Load, Q (kPa)			
					1.5	2.5	3	5
					Superimposed Dead Load ² , G _{SDL} (kPa)			
					0.8	0.1	0.8	0.5
Maximum Composite Floor Span, L (m)								
150	0.11	2.65	SE92	Ambient Temperature ⁴	5.46	5.72	5.42	4.54
				FRR 60 Minutes ⁵	5.59	5.54	5.20	4.54
160	0.12	2.88	SE72 x 2	Ambient Temperature ⁴	5.64	5.88	5.61	4.78
				FRR 60 Minutes ⁵	5.60	5.56	5.23	4.78
170	0.13	3.11	SE72 x 2	Ambient Temperature ⁴	5.82	6.05	5.78	5.00
				FRR 60 Minutes ⁵	5.61	5.58	5.26	4.88
180	0.14	3.34	SE62 + SE92	Ambient Temperature ⁴	6.00	6.20	5.93	5.26
				FRR 60 Minutes ⁵	5.48	5.53	5.42	5.04
190	0.15	3.57	SE62 + SE92	Ambient Temperature ⁴	6.16	6.38	6.10	5.50
				FRR 60 Minutes ⁵	5.48	5.54	5.43	5.07
200	0.16	3.81	SE82 x 2	Ambient Temperature ⁴	6.30	6.40	6.25	5.73
				FRR 60 Minutes ⁵	5.47	5.55	5.45	5.10
210	0.17	4.04	SE82 + SE92	Ambient Temperature ⁴	6.15	6.15	6.15	5.83
				FRR 60 Minutes ⁵	5.47	5.56	5.46	5.13
220	0.18	4.27	SE82 + SE92	Ambient Temperature ⁴	6.00	6.00	6.00	5.88
				FRR 60 Minutes ⁵	5.47	5.57	5.19	5.15
230	0.19	4.50	SE92 x 2	Ambient Temperature ⁴	5.80	5.80	5.80	5.80
				FRR 60 Minutes ⁵	5.33	5.39	5.30	5.00

Notes:

- Crack control steel is the minimum continuous D500 Mesh required for a composite floor slab enclosed within a building.
- To achieve FRR 60 minutes, a superimposed dead load of 0.5kPa is assumed for all load combinations.
- Maximum load (G_{SDL} + Q) limited by composite floor slab capacity under ambient temperature conditions.
- Spans possible to the maximum load (G_{SDL} + Q) indicated under ambient temperature conditions using minimum continuous crack control mesh.
- Spans possible to the maximum load (G_{SDL} + Q) indicated to achieve FRR 60 minutes using the nominated bottom ductile reinforcing bars in the steel decking sheet pans.

1.05mm Hibond 80 - Constructed as Unpropped Single Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.66	SE82	3.80	3.80	3.80	3.80	10.5
160	0.12	2.90	SE82	3.70	3.70	3.70	3.70	11.5
170	0.13	3.13	SE82	3.61	3.61	3.61	3.61	12.5
180	0.14	3.36	SE92	3.53	3.53	3.53	3.53	14.0
190	0.15	3.59	SE92	3.45	3.45	3.45	3.45	15.0
200	0.16	3.82	SE92	3.39	3.39	3.39	3.39	16.0
210	0.17	4.05	SE92	3.32	3.32	3.32	3.32	17.0
220	0.18	4.28	SE92	3.28	3.28	3.28	3.28	18.0
230	0.19	4.51	SE72 x 2	3.21	3.21	3.21	3.21	19.0

1.05mm Hibond 80 - Constructed as Unpropped Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.66	SE82	4.49 ⁴	4.29	4.20	3.88	6.0
160	0.12	2.90	SE82	4.38 ⁴	4.30	4.21	3.91	8.0
170	0.13	3.13	SE82	4.25 ⁴	4.25	4.22	3.94	10.0
180	0.14	3.36	SE92	4.13 ⁴	4.13	4.13	4.09	11.0
190	0.15	3.59	SE92	4.02	4.02	4.02	4.02	12.0
200	0.16	3.82	SE92	3.92	3.92	3.92	3.92	13.0
210	0.17	4.05	SE92	3.83	3.83	3.83	3.83	14.0
220	0.18	4.28	SE92	3.74	3.74	3.74	3.74	15.0
230	0.19	4.51	SE72 x 2	3.65	3.65	3.65	3.65	16.0

1.05mm Hibond 80 - Constructed as Propped Single or Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Propped Composite Floor Slab Limitation (minimum one row of continuous propping at mid-span)	Superimposed Live Load, Q (kPa)			
					1.5	2.5	3	5
					Superimposed Dead Load ² , G _{SDL} (kPa)			
					0.8	0.1	0.8	0.5
Maximum Composite Floor Span, L (m)								
150	0.11	2.66	SE92	Ambient Temperature ⁴	5.52	5.78	5.46	4.58
				FRR 60 Minutes ⁵	5.59	5.54	5.20	4.58
160	0.12	2.90	SE72 x 2	Ambient Temperature ⁴	5.70	5.94	5.66	4.82
				FRR 60 Minutes ⁵	5.60	5.56	5.23	4.82
170	0.13	3.13	SE72 x 2	Ambient Temperature ⁴	5.89	6.09	5.84	5.06
				FRR 60 Minutes ⁵	5.61	5.58	5.26	5.06
180	0.14	3.36	SE62 + SE92	Ambient Temperature ⁴	6.06	6.27	6.00	5.30
				FRR 60 Minutes ⁵	5.48	5.53	5.42	5.25
190	0.15	3.59	SE62 + SE92	Ambient Temperature ⁴	6.19	6.44	6.15	5.54
				FRR 60 Minutes ⁵	5.48	5.54	5.43	5.28
200	0.16	3.82	SE82 x 2	Ambient Temperature ⁴	6.35	6.56	6.30	5.78
				FRR 60 Minutes ⁵	5.47	5.55	5.45	5.31
210	0.17	4.05	SE82 + SE92	Ambient Temperature ⁴	6.50	6.70	6.46	6.00
				FRR 60 Minutes ⁵	5.47	5.56	5.46	5.13
220	0.18	4.28	SE82 + SE92	Ambient Temperature ⁴	6.65	6.65	6.65	6.07
				FRR 60 Minutes ⁵	5.47	5.57	5.19	5.15
230	0.19	4.51	SE92 x 2	Ambient Temperature ⁴	6.55	6.55	6.55	6.15
				FRR 60 Minutes ⁵	5.33	5.39	5.30	5.27

Notes:

- Crack control steel is the minimum continuous D500 Mesh required for a composite floor slab enclosed within a building.
- To achieve FRR 60 minutes, a superimposed dead load of 0.5kPa is assumed for all load combinations.
- Maximum load (G_{SDL} + Q) limited by composite floor slab capacity under ambient temperature conditions.
- Spans possible to the maximum load (G_{SDL} + Q) indicated under ambient temperature conditions using minimum continuous crack control mesh.
- Spans possible to the maximum load (G_{SDL} + Q) indicated to achieve FRR 60 minutes using the nominated bottom ductile reinforcing bars in the steel decking sheet pans.

1.15mm Hibond 80 - Constructed as Unpropped Single Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.68	SE82	3.98	3.98	3.98	3.98	9.5
160	0.12	2.91	SE82	3.90	3.90	3.90	3.90	12.0
170	0.13	3.14	SE82	3.82	3.82	3.82	3.82	13.5
180	0.14	3.37	SE92	3.74	3.74	3.74	3.74	14.5
190	0.15	3.60	SE92	3.66	3.66	3.66	3.66	15.5
200	0.16	3.83	SE92	3.58	3.58	3.58	3.58	16.5
210	0.17	4.06	SE92	3.51	3.51	3.51	3.51	17.5
220	0.18	4.29	SE92	3.45	3.45	3.45	3.45	19.0
230	0.19	4.52	SE72 x 2	3.40	3.40	3.40	3.40	20.0

1.15mm Hibond 80 - Constructed as Unpropped Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Superimposed Live Load, Q (kPa)				Maximum Superimposed Load (G _{SDL} + Q) for Ambient Temperature ³ (kPa)
				1.5	2.5	3	5	
				Superimposed Dead Load ² , G _{SDL} (kPa)				
				0.8	0.1	0.8	0.5	
Maximum Composite Floor Span, L (m) for FRR 60 Minutes (using minimum crack control mesh for the loads (G _{SDL} + Q) indicated above)								
150	0.11	2.68	SE82	4.62 ⁴	4.41	4.32	3.99	5.5
160	0.12	2.91	SE82	4.62 ⁴	4.42	4.34	4.03	6.5
170	0.13	3.14	SE82	4.54 ⁴	4.44	4.35	4.05	9.0
180	0.14	3.37	SE92	4.41 ⁴	4.41	4.41	4.21	10.5
190	0.15	3.60	SE92	4.30 ⁴	4.30	4.30	4.23	11.5
200	0.16	3.83	SE92	4.19	4.19	4.19	4.19	12.5
210	0.17	4.06	SE92	4.09	4.09	4.09	4.09	13.5
220	0.18	4.29	SE92	4.00	4.00	4.00	4.00	14.5
230	0.19	4.52	SE72 x 2	3.93	3.93	3.93	3.93	15.5

1.15mm Hibond 80 - Constructed as Propped Single or Double Span Formwork, Ambient Temperature and FRR 60 Minutes

Slab Depth (mm)	Concrete Volume (m ³ /m ²)	Dry Slab Weight (kPa)	Minimum Crack Control Mesh ¹	Propped Composite Floor Slab Limitation (minimum one row of continuous propping at mid-span)	Superimposed Live Load, Q (kPa)			
					1.5	2.5	3	5
					Superimposed Dead Load ² , G _{SDL} (kPa)			
					0.8	0.1	0.8	0.5
Maximum Composite Floor Span, L (m)								
150	0.11	2.68	SE92	Ambient Temperature ⁴	5.54	5.80	5.49	4.64
				FRR 60 Minutes ⁵	5.68	5.62	5.29	4.64
160	0.12	2.91	SE72 x 2	Ambient Temperature ⁴	5.73	5.97	5.68	4.88
				FRR 60 Minutes ⁵	5.70	5.65	5.52	4.88
170	0.13	3.14	SE72 x 2	Ambient Temperature ⁴	5.90	6.13	5.85	5.13
				FRR 60 Minutes ⁵	5.71	5.67	5.35	5.13
180	0.14	3.37	SE62 + SE92	Ambient Temperature ⁴	6.06	6.29	6.02	5.37
				FRR 60 Minutes ⁵	5.86	5.62	5.51	5.13
190	0.15	3.60	SE62 + SE92	Ambient Temperature ⁴	6.23	6.45	6.18	5.62
				FRR 60 Minutes ⁵	5.58	5.63	5.53	5.16
200	0.16	3.83	SE82 x 2	Ambient Temperature ⁴	6.39	6.61	6.34	5.85
				FRR 60 Minutes ⁵	5.58	5.65	5.55	5.19
210	0.17	4.06	SE82 + SE92	Ambient Temperature ⁴	6.54	6.76	6.50	6.07
				FRR 60 Minutes ⁵	5.58	5.66	5.56	5.22
220	0.18	4.29	SE82 + SE92	Ambient Temperature ⁴	6.70	6.90	6.65	6.30
				FRR 60 Minutes ⁵	5.58	5.67	5.58	5.25
230	0.19	4.52	SE92 x 2	Ambient Temperature ⁴	6.85	7.05	6.81	6.40
				FRR 60 Minutes ⁵	5.69	5.50	5.41	5.36

Notes:

- Crack control steel is the minimum continuous D500 Mesh required for a composite floor slab enclosed within a building.
- To achieve FRR 60 minutes, a superimposed dead load of 0.5kPa is assumed for all load combinations.
- Maximum load (G_{SDL} + Q) limited by composite floor slab capacity under ambient temperature conditions.
- Spans possible to the maximum load (G_{SDL} + Q) indicated under ambient temperature conditions using minimum continuous crack control mesh.
- Spans possible to the maximum load (G_{SDL} + Q) indicated to achieve FRR 60 minutes using the nominated bottom ductile reinforcing bars in the steel decking sheet pans.