

## FLATDECK COMPOSITE FLOOR SLAB LOAD SPAN TABLES

Superimposed loads ( $G_{SDL} + Q$ ) are presented for composite floor slab thicknesses between 110mm and 200mm and over a range of spans between 2.0m and 7.2m for all span configurations. For continuous design, negative reinforcement requirements are presented for double or end spans and internal spans.

The following Notes apply to the composite floor slab load span tables in this Section.

1. Span types  
 $L_{SS}$  is the clear single span between permanent supports plus 100mm.  
 $L$  is the double/end or internal span measured centre to centre between permanent supports.
2. The design superimposed load combination is  $G_{SDL} + Q$  and must not be greater than the superimposed loads given in the tables.
3. a) Medium term superimposed loads are based on 2/3 short term and 1/3 long term (i.e. modular ratio = 10) and apply to buildings of normal usage.  
 b) Long term superimposed loads are based on all loads being long term (i.e. modular ratio = 18) and apply to storage loads and loads which are permanent in nature.
4. Deflection limits incorporated into these tables are as follows:  
 a)  $L/350$  or 20mm maximum due to superimposed load ( $G_{SDL} + Q$ ).  
 b)  $L/250$  maximum due to superimposed load plus prop removal ( $G + G_{SDL} + Q$ ).  
 The designer shall be satisfied that these limits are adequate for the application considered, otherwise additional deflection checks must be made.
5. Propping requirements depend on the Flatdeck composite floor slab thickness and span configuration as formwork. Refer Flatdeck Formwork Design Tables 3.5.4 to determine formwork span capabilities.
6. Use of the double or end span tables and internal span tables assumes,
  - All spans have the same composite floor slab thickness.
  - The end span is within plus 5% or minus 10% of the internal span and that the end and internal spans are both designed using the appropriate load span table.
  - Double spans are within 10% of each other and the composite floor slab design is based on the largest span.
  - Internal spans are within 10% of each other and the composite floor slab design is based on the largest internal span.
 Any variation to the above configurations requires specific design.
7. Example: For a 0.75mm Flatdeck composite floor slab of 130mm overall composite floor slab thickness on a double span of 3800mm we have the following:

**8.9** HD16@200

where:

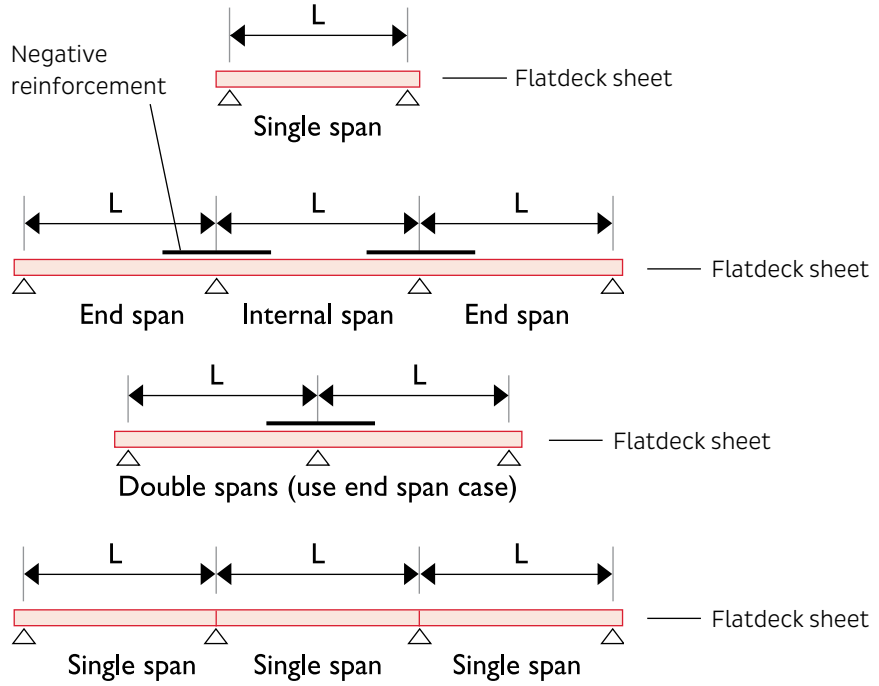
**8.9** = Superimposed load kPa

HD16@200 = HD16 negative reinforcing (saddle bars) placed at 200mm centres to achieve the superimposed load

8. Steel areas in the double or end and internal span tables are calculated based on H16 reinforcing bars (i.e. 16mm diameter grade 500 to AS/NZS 4671) placed at 25mm top cover (A1 exposure classification – NZS 3101). Areas for other bar types, covers and sizes require specific design.
9. Negative reinforcement must be placed on top of the mesh parallel with the Flatdeck ribs at spacings indicated in the tables for the span and composite floor slab thickness considered.
10. Negative reinforcement must extend at least 0.25 of the largest composite floor span plus 450mm each side of the centre line of the support.

11. The same negative reinforcing is required for both propped and unpropped construction.
  12. Vibration limits expressed as maximum spans in the tables refer to:
    - - - - Commercial offices, open plan with few small partitions (damping ratio = 0.025)
    - ..... Residences with many full height partitions (damping ratio = 0.05)
- Specific design is required for other floor uses. Refer Flatdeck Design Examples 3.5.8.
13. For intermediate values, linear interpolation is permitted.

**Typical Composite Floor Slab Span Configurations**



This configuration requires minimum nominal continuity reinforcement to be placed over the supports, refer Additional Reinforcement in Section 3.5.2.2.

0.75mm Flatdeck Composite Floor Slab – Single Spans  
Medium Term Superimposed Loads (kPa)

L <sub>SS</sub> (mm)	Slab Thickness, D <sub>s</sub> (mm)									
	110	120	130	140	150	160	170	180	190	200
2000	18.6	20.3	21.8	-	-	-	-	-	-	-
2200	16.0	17.3	18.8	20.3	21.8	-	-	-	-	-
2400	13.9	15.2	16.4	17.7	19.0	20.3	21.6	-	-	-
2600	12.2	13.4	14.4	15.6	16.7	17.8	19.0	20.2	21.3	-
2800	10.9	11.8	12.8	13.8	14.8	15.8	16.9	17.9	18.9	20.0
3000	9.7	10.6	11.5	12.4	13.3	14.2	15.1	16.0	17.0	17.9
3200	8.8	9.5	10.3	11.1	11.9	12.8	13.6	14.4	15.3	16.1
3400	7.9	8.6	9.3	10.1	10.8	11.6	12.3	13.1	13.8	14.6
3600	7.1	7.8	8.5	9.2	9.8	10.5	11.2	11.9	12.6	13.3
3800	6.5	7.1	7.8	8.3	9.0	9.6	10.2	10.9	11.5	12.1
4000	5.9	6.5	7.1	7.6	8.2	8.8	9.4	9.9	10.5	11.1
4200	5.4	5.9	6.5	7.0	7.5	8.1	8.6	9.1	9.7	10.2
4400	4.6	5.4	6.0	6.4	6.9	7.4	7.9	8.4	8.9	9.4
4600	3.7	5.0	5.5	5.9	6.4	6.8	7.3	7.7	8.3	8.8
4800	2.9	4.2	5.1	5.4	5.9	6.3	6.8	7.3	7.7	8.1
5000	2.3	3.4	4.6	5.0	5.5	5.9	6.3	6.7	7.1	7.5
5200	1.7	2.7	3.8	4.7	5.1	5.5	5.9	6.2	6.6	7.0
5400	-	2.1	3.1	4.4	4.7	5.1	5.4	5.8	6.1	6.5
5600	-	1.6	2.4	3.4	4.4	4.7	5.0	5.4	5.7	6.0
5800	-	-	1.9	2.8	4.1	4.4	4.7	5.0	5.3	5.6
6000	-	-	-	2.2	3.1	4.1	4.4	4.6	4.9	5.2
6200	-	-	-	1.7	2.5	3.4	4.1	4.4	4.6	4.9
6400	-	-	-	-	1.9	2.8	3.7	4.0	4.3	4.6
6600	-	-	-	-	-	2.2	3.0	3.7	4.1	4.3
6800	-	-	-	-	-	1.7	2.4	3.3	3.8	4.1
7000	-	-	-	-	-	-	1.9	2.7	3.5	3.7
7200	-	-	-	-	-	-	-	2.1	2.9	3.5

## 0.75mm Flatdeck Composite Floor Slab – Single Spans

## Long Term Superimposed Loads (kPa)

L <sub>SS</sub> (mm)	Slab Thickness, D <sub>s</sub> (mm)									
	110	120	130	140	150	160	170	180	190	200
2000	18.6	20.3	21.8	-	-	-	-	-	-	-
2200	16.0	17.3	18.8	20.3	21.8	-	-	-	-	-
2400	13.9	15.2	16.4	17.7	19.0	20.3	21.6	-	-	-
2600	12.2	13.4	14.4	15.6	16.7	17.8	19.0	20.2	21.3	-
2800	10.9	11.8	12.8	13.8	14.8	15.8	16.9	17.9	18.9	20.0
3000	9.7	10.6	11.5	12.4	13.3	14.2	15.1	16.0	17.0	17.9
3200	8.8	9.5	10.3	11.1	11.9	12.8	13.6	14.4	15.3	16.1
3400	7.7	8.6	9.3	10.1	10.8	11.6	12.3	13.1	13.8	14.6
3600	6.5	7.8	8.5	9.2	9.8	10.5	11.2	11.9	12.6	13.3
3800	5.1	6.9	7.8	8.3	9.0	9.6	10.2	10.9	11.5	12.1
4000	4.0	5.5	7.1	7.6	8.2	8.8	9.4	9.9	10.5	11.1
4200	3.1	4.4	5.9	7.0	7.5	8.1	8.6	9.1	9.7	10.2
4400	2.3	3.4	4.7	6.2	6.9	7.4	7.9	8.4	8.9	9.4
4600	1.7	2.6	3.7	5.0	6.5	6.8	7.3	7.7	8.3	8.8
4800	-	1.9	2.9	4.0	5.3	6.3	6.8	7.3	7.7	8.1
5000	-	-	2.2	3.2	4.3	5.5	6.3	6.7	7.1	7.5
5200	-	-	1.6	2.4	3.4	4.5	5.8	6.2	6.6	7.0
5400	-	-	-	1.8	2.6	3.6	4.7	5.8	6.1	6.5
5600	-	-	-	-	2.0	2.8	3.8	4.9	5.7	6.0
5800	-	-	-	-	-	2.2	3.0	4.0	5.0	5.6
6000	-	-	-	-	-	1.6	2.3	3.2	4.1	5.2
6200	-	-	-	-	-	-	1.7	2.5	3.3	4.2
6400	-	-	-	-	-	-	-	1.8	2.6	3.4
6600	-	-	-	-	-	-	-	-	2.0	2.7
6800	-	-	-	-	-	-	-	-	-	2.1
7000	-	-	-	-	-	-	-	-	-	1.5
7200	-	-	-	-	-	-	-	-	-	-

0.75mm Flatdeck Composite Floor Slab – Double and End Spans  
 Medium and Long Term Superimposed Loads (kPa) and Negative Reinforcement (mm<sup>2</sup>/m width)

L (mm)	Slab Thickness, D <sub>s</sub> (mm)										
	110	120	130	140	150	160	170	180	190	200	
2000	21.1 HD16@300	22.9 HD16@300									
2200	18.1 HD16@250	19.7 HD16@300	21.2 HD16@300	22.9 HD16@300							
2400	15.8 HD16@250	17.2 HD16@250	18.5 HD16@300	19.9 HD16@300	21.4 HD16@300	22.8 HD16@300					
2600	13.9 HD16@250	15.1 HD16@250	16.3 HD16@250	17.6 HD16@250	18.8 HD16@300	20.1 HD16@300	21.3 HD16@300				
2800	12.4 HD16@250	13.4 HD16@250	14.5 HD16@250	15.6 HD16@250	16.7 HD16@300	17.8 HD16@300	18.9 HD16@300	20.1 HD16@300	21.3 HD16@300	22.0 HD16@300	
3000	11.1 HD16@200	12.1 HD16@250	13.0 HD16@250	14.0 HD16@250	15.0 HD16@250	16.0 HD16@250	17.0 HD16@300	18.1 HD16@300	19.1 HD16@300	20.2 HD16@300	
3200	10.0 HD16@200	10.9 HD16@200	11.8 HD16@250	12.7 HD16@250	13.6 HD16@250	14.5 HD16@250	15.4 HD16@200	16.3 HD16@250	17.3 HD16@250	18.2 HD16@250	
3400	8.6 HD16@200	9.9 HD16@200	10.7 HD16@200	11.5 HD16@250	12.3 HD16@250	13.2 HD16@250	14.0 HD16@200	14.8 HD16@250	15.7 HD16@250	16.5 HD16@250	
3600	7.1 HD16@200	9.0 HD16@200	9.7 HD16@200	10.5 HD16@200	11.3 HD16@200	12.0 HD16@250	12.8 HD16@200	13.5 HD16@250	14.3 HD16@250	15.1 HD16@250	
3800	5.8 HD16@200	7.5 HD16@200	8.9 HD16@200	9.6 HD16@200	10.3 HD16@200	11.0 HD16@200	11.7 HD16@200	12.4 HD16@250	13.1 HD16@250	13.8 HD16@250	
4000	4.8 HD16@200	6.3 HD16@200	7.9 HD16@200	8.9 HD16@200	9.5 HD16@200	10.1 HD16@200	10.8 HD16@200	11.4 HD16@200	12.1 HD16@200	12.7 HD16@200	
4200	3.9 HD16@200	5.2 HD16@200	6.6 HD16@200	8.2 HD16@200	8.7 HD16@200	9.3 HD16@200	9.9 HD16@200	10.5 HD16@200	11.2 HD16@200	11.8 HD16@200	
4400	3.1 HD16@200	4.3 HD16@200	5.5 HD16@200	6.9 HD16@200	8.1 HD16@200	8.6 HD16@200	9.2 HD16@200	9.8 HD16@200	10.3 HD16@200	10.9 HD16@200	
4600	2.5 HD16@200	3.5 HD16@200	4.6 HD16@200	5.8 HD16@200	7.2 HD16@200	8.0 HD16@200	8.5 HD16@200	9.1 HD16@200	9.7 HD16@200	10.2 HD16@200	
4800	1.9 HD16@200	2.8 HD16@200	3.7 HD16@200	4.8 HD16@200	6.1 HD16@200	7.4 HD16@200	8.0 HD16@200	8.5 HD16@200	9.0 HD16@200	9.5 HD16@200	
5000	1.4 HD16@200	2.2 HD16@200	3.0 HD16@200	4.0 HD16@200	5.3 HD16@200	6.5 HD16@200	7.4 HD16@200	7.9 HD16@200	8.4 HD16@200	8.9 HD16@200	
5200	.....	1.6 HD16@200	2.4 HD16@200	3.5 HD16@200	4.4 HD16@200	5.5 HD16@200	6.6 HD16@200	7.2 HD16@200	7.8 HD16@200	8.3 HD16@200	
5400	.....	.....	2.1 HD16@200	2.8 HD16@200	3.7 HD16@200	4.7 HD16@200	5.7 HD16@200	6.4 HD16@200	6.9 HD16@200	7.5 HD16@200	
5600	.....	.....	1.6 HD16@200	2.3 HD16@200	3.0 HD16@200	3.9 HD16@200	4.8 HD16@200	5.7 HD16@200	6.1 HD16@200	7.3 HD16@100	
5800	.....	.....	.....	1.8 HD16@200	2.5 HD16@200	3.2 HD16@200	4.1 HD16@200	5.0 HD16@200	5.5 HD16@200	6.8 HD16@100	
6000	.....	.....	.....	.....	1.9 HD16@200	2.6 HD16@200	3.9 HD16@100	4.2 HD16@200	4.8 HD16@200	6.4 HD16@100	
6200	.....	.....	.....	.....	.....	2.1 HD16@200	3.2 HD16@100	3.5 HD16@200	4.3 HD16@200	5.9 HD16@100	
6400	.....	.....	.....	.....	.....	1.5 HD16@200	2.6 HD16@100	3.3 HD16@100	3.6 HD16@200	5.2 HD16@100	
6600	.....	.....	.....	.....	.....	.....	2.0 HD16@100	2.7 HD16@100	3.7 HD16@100	4.5 HD16@100	
6800	.....	.....	.....	.....	.....	.....	1.7 HD16@100	2.4 HD16@100	3.1 HD16@100	3.8 HD16@100	
7000	.....	.....	.....	.....	.....	.....	.....	1.8 HD16@100	2.5 HD16@100	3.2 HD16@100	
7200	.....	.....	.....	.....	.....	.....	.....	.....	2.0 HD16@100	2.6 HD16@100	

0.75mm Flatdeck Composite Floor Slab – Internal Spans  
Medium and Long Term Superimposed Loads (kPa) and Negative Reinforcement (mm<sup>2</sup>/m width)

L (mm)	Slab Thickness, D <sub>s</sub> (mm)										
	110	120	130	140	150	160	170	180	190	200	
2000	20.0	21.7	23.4	HD16@300							
2200	17.1	18.6	20.1	HD16@300	23.1	HD16@300					
2400	15.0	16.2	17.5	HD16@300	20.2	HD16@300	22.8	HD16@300			
2600	13.2	14.3	15.4	HD16@300	17.7	HD16@300	20.1	HD16@300	22.6	HD16@300	
2800	11.6	12.7	13.7	HD16@300	15.8	HD16@300	17.9	HD16@300	20.1	HD16@300	21.2
3000	10.5	11.3	12.3	HD16@300	14.1	HD16@300	16.0	HD16@300	18.0	HD16@300	19.1
3200	9.4	10.2	11.1	HD16@250	12.8	HD16@300	14.5	HD16@300	16.3	HD16@300	17.2
3400	8.3	9.3	10.1	HD16@250	11.6	HD16@300	13.2	HD16@300	14.8	HD16@300	15.6
3600	6.4	8.3	9.2	HD16@250	10.6	HD16@250	12.0	HD16@300	13.5	HD16@300	14.3
3800	5.2	6.8	8.4	HD16@200	9.7	HD16@250	11.0	HD16@250	12.4	HD16@300	13.1
4000	4.2	5.6	7.2	HD16@200	8.9	HD16@250	10.1	HD16@250	11.4	HD16@250	12.0
4200	3.4	4.6	5.9	HD16@200	8.2	HD16@250	9.4	HD16@250	10.5	HD16@250	11.1
4400	2.7	3.7	4.9	HD16@200	7.6	HD16@200	8.7	HD16@250	9.7	HD16@250	10.3
4600	2.1	2.9	4.0	HD16@200	6.4	HD16@200	8.0	HD16@250	9.1	HD16@250	9.6
4800	1.5	2.3	3.2	HD16@200	5.3	HD16@200	7.5	HD16@200	8.5	HD16@200	8.9
5000	1.7	2.5	3.4	HD16@200	4.6	HD16@200	7.0	HD16@200	7.9	HD16@200	8.3
5200			1.8	HD16@200	3.8	HD16@200	5.9	HD16@200	7.4	HD16@200	7.8
5400			1.5	HD16@200	3.1	HD16@200	5.5	HD16@100	6.9	HD16@200	7.3
5600			1.7	HD16@200	2.5	HD16@200	4.6	HD16@100	6.1	HD16@200	6.8
5800			1.8	HD16@200	1.8	HD16@200	3.8	HD16@100	5.8	HD16@100	6.2
6000							3.1	HD16@100	4.9	HD16@100	5.9
6200							2.5	HD16@100	4.1	HD16@100	5.0
6400							1.8	HD16@100	3.3	HD16@100	4.3
6600							1.9	HD16@100	2.6	HD16@100	3.6
6800							1.5	HD16@100	2.2	HD16@100	3.0
7000							1.6	HD16@100	1.6	HD16@100	2.3
7200											1.7

0.95mm Flatdeck Composite Floor Slab – Single Spans  
Medium Term Superimposed Loads (kPa)

L <sub>SS</sub> (mm)	Slab Thickness, D <sub>s</sub> (mm)									
	110	120	130	140	150	160	170	180	190	200
2000	19.8	21.5	23.1	-	-	-	-	-	-	-
2200	16.9	18.4	19.8	21.2	22.7	-	-	-	-	-
2400	14.6	15.9	17.1	18.6	19.8	21.1	22.4	-	-	-
2600	13.0	14.1	15.2	16.3	17.4	18.6	19.7	20.9	22.1	-
2800	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.6	19.6	20.6
3000	10.3	11.2	12.0	12.9	13.9	14.8	15.7	16.6	17.5	18.5
3200	9.2	10.0	10.8	11.7	12.5	13.3	14.1	14.9	15.8	16.6
3400	8.3	9.1	9.8	10.5	11.3	12.0	12.8	13.5	14.3	15.1
3600	7.5	8.2	8.9	9.6	10.3	10.9	11.6	12.3	13.0	13.7
3800	6.9	7.5	8.1	8.7	9.4	10.0	10.6	11.2	11.9	12.5
4000	6.3	6.8	7.4	8.0	8.6	9.2	9.7	10.3	10.9	11.5
4200	5.7	6.3	6.8	7.3	7.9	8.4	8.9	9.5	10.0	10.5
4400	5.2	5.8	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7
4600	4.2	5.3	5.7	6.2	6.7	7.1	7.6	8.0	8.5	9.0
4800	3.4	4.8	5.3	5.7	6.1	6.6	7.0	7.4	7.9	8.3
5000	2.7	3.9	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.8
5200	2.1	3.1	4.4	4.9	5.2	5.6	6.0	6.5	6.8	7.2
5400	1.6	2.5	3.6	4.5	4.8	5.2	5.7	6.0	6.4	6.7
5600	-	1.9	2.9	4.0	4.6	4.9	5.3	5.6	5.9	6.2
5800	-	-	2.3	3.3	4.3	4.6	4.9	5.2	5.5	5.8
6000	-	-	1.7	2.6	3.6	4.3	4.5	4.8	5.1	5.4
6200	-	-	-	2.1	3.0	4.0	4.2	4.5	4.8	5.0
6400	-	-	-	1.6	2.4	3.3	3.9	4.2	4.4	4.7
6600	-	-	-	-	1.8	2.6	3.6	3.9	4.1	4.4
6800	-	-	-	-	-	2.1	2.9	3.6	3.8	4.1
7000	-	-	-	-	-	1.6	2.3	3.2	3.6	3.8
7200	-	-	-	-	-	-	1.8	2.6	3.4	3.6

## 0.95mm Flatdeck Composite Floor Slab – Single Spans

## Long Term Superimposed Loads (kPa)

L <sub>SS</sub> (mm)	Slab Thickness, D <sub>s</sub> (mm)									
	110	120	130	140	150	160	170	180	190	200
2000	19.8	21.5	23.1	-	-	-	-	-	-	-
2200	16.9	18.4	19.8	21.2	22.7	-	-	-	-	-
2400	14.6	15.9	17.1	18.6	19.8	21.1	22.4	-	-	-
2600	13.0	14.1	15.2	16.3	17.4	18.6	19.7	20.9	22.1	-
2800	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.6	19.6	20.6
3000	10.3	11.2	12.0	12.9	13.9	14.8	15.7	16.6	17.5	18.5
3200	9.2	10.0	10.8	11.7	12.5	13.3	14.1	14.9	15.8	16.6
3400	8.3	9.1	9.8	10.5	11.3	12.0	12.8	13.5	14.3	15.1
3600	7.2	8.2	8.9	9.6	10.3	10.9	11.6	12.3	13.0	13.7
3800	5.9	7.5	8.1	8.7	9.4	10.0	10.6	11.2	11.9	12.5
4000	4.7	6.3	7.4	8.0	8.6	9.2	9.7	10.3	10.9	11.5
4200	3.7	5.1	6.8	7.3	7.9	8.4	8.9	9.5	10.0	10.5
4400	2.8	4.0	5.5	6.7	7.2	7.7	8.2	8.7	9.2	9.7
4600	2.1	3.2	4.4	5.8	6.7	7.1	7.6	8.0	8.5	9.0
4800	1.6	2.4	3.5	4.7	6.1	6.6	7.0	7.4	7.9	8.3
5000	-	1.8	2.7	3.8	5.0	6.1	6.5	6.9	7.3	7.8
5200	-	-	2.1	3.0	4.1	5.3	6.0	6.5	6.8	7.2
5400	-	-	1.5	2.3	3.2	4.3	5.5	6.0	6.4	6.7
5600	-	-	-	1.7	2.5	3.5	4.5	5.6	5.9	6.2
5800	-	-	-	-	1.9	2.7	3.7	4.7	5.5	5.8
6000	-	-	-	-	-	2.1	2.9	3.9	4.9	5.4
6200	-	-	-	-	-	1.5	2.3	3.1	4.0	5.0
6400	-	-	-	-	-	-	1.7	2.4	3.2	4.2
6600	-	-	-	-	-	-	-	1.8	2.6	3.4
6800	-	-	-	-	-	-	-	-	1.9	2.7
7000	-	-	-	-	-	-	-	-	-	2.1
7200	-	-	-	-	-	-	-	-	-	1.5



0.95mm Flatdeck Composite Floor Slab – Double and End Spans  
 Medium and Long Term Superimposed Loads (kPa) and Negative Reinforcement (mm<sup>2</sup>/m width)

L (mm)	Slab Thickness, D <sub>s</sub> (mm)										
	110	120	130	140	150	160	170	180	190	200	
2000	22.6 HD16@250	24.4 HD16@300									
2200	19.3 HD16@250	20.8 HD16@250	22.4 HD16@300								
2400	16.7 HD16@250	18.1 HD16@250	19.5 HD16@250	21.0 HD16@300	22.4 HD16@300						
2600	14.8 HD16@200	16.0 HD16@250	17.2 HD16@250	18.4 HD16@250	19.7 HD16@300	21.0 HD16@300	22.2 HD16@300				
2800	13.1 HD16@200	14.2 HD16@250	15.3 HD16@250	16.4 HD16@250	17.5 HD16@250	18.5 HD16@300	19.8 HD16@300	20.9 HD16@300	22.1 HD16@300		
3000	11.8 HD16@200	12.7 HD16@200	13.7 HD16@250	14.7 HD16@250	15.7 HD16@250	16.7 HD16@250	17.7 HD16@250	18.7 HD16@250	19.8 HD16@250	20.8 HD16@300	
3200	10.6 HD16@200	11.5 HD16@200	12.4 HD16@200	13.3 HD16@250	14.2 HD16@250	15.1 HD16@250	16.0 HD16@250	16.9 HD16@250	17.8 HD16@250	18.8 HD16@250	
3400	9.3 HD16@200	10.4 HD16@200	11.2 HD16@200	12.0 HD16@200	12.9 HD16@200	13.7 HD16@250	14.5 HD16@250	15.4 HD16@250	16.2 HD16@250	17.1 HD16@250	
3600	7.7 HD16@200	9.5 HD16@200	10.2 HD16@200	11.0 HD16@200	11.7 HD16@200	12.5 HD16@200	13.3 HD16@250	14.1 HD16@250	14.8 HD16@250	15.6 HD16@250	
3800	6.3 HD16@200	8.2 HD16@200	9.4 HD16@200	10.1 HD16@200	10.8 HD16@200	11.5 HD16@200	12.2 HD16@200	12.9 HD16@200	13.6 HD16@250	14.3 HD16@250	
4000	5.2 HD16@200	6.8 HD16@200	8.6 HD16@200	9.3 HD16@200	9.9 HD16@200	10.6 HD16@200	11.2 HD16@200	11.8 HD16@200	12.5 HD16@200	13.2 HD16@200	
4200	4.3 HD16@200	5.7 HD16@200	7.2 HD16@200	8.5 HD16@200	9.1 HD16@200	9.7 HD16@200	10.3 HD16@200	10.9 HD16@200	11.5 HD16@200	12.2 HD16@200	
4400	3.5 HD16@200	4.7 HD16@200	6.0 HD16@200	7.6 HD16@200	8.5 HD16@200	9.0 HD16@200	9.6 HD16@200	10.1 HD16@200	10.7 HD16@200	11.3 HD16@200	
4600	2.8 HD16@200	3.9 HD16@200	5.0 HD16@200	6.4 HD16@200	7.6 HD16@200	8.4 HD16@200	8.9 HD16@200	9.4 HD16@200	9.9 HD16@200	10.5 HD16@200	
4800	2.2 HD16@200	3.1 HD16@200	4.2 HD16@200	5.3 HD16@200	6.7 HD16@200	7.5 HD16@200	8.2 HD16@200	8.7 HD16@200	9.2 HD16@200	9.7 HD16@200	
5000	1.7 HD16@200	2.5 HD16@200	3.4 HD16@200	4.4 HD16@200	5.6 HD16@200	6.6 HD16@200	7.3 HD16@200	7.9 HD16@200	8.6 HD16@200	9.2 HD16@200	
5200		2.0 HD16@200	2.8 HD16@200	3.7 HD16@200	4.7 HD16@200	5.8 HD16@200	6.4 HD16@200	7.1 HD16@200	7.7 HD16@200	8.3 HD16@200	
5400			2.2 HD16@200	3.0 HD16@200	3.9 HD16@200	4.9 HD16@200	5.8 HD16@200	6.4 HD16@200	6.9 HD16@200	7.4 HD16@200	
5600			1.6 HD16@200	2.4 HD16@200	3.4 HD16@200	4.3 HD16@200	5.2 HD16@200	5.6 HD16@200	6.1 HD16@200	6.6 HD16@200	
5800				2.1 HD16@200	2.8 HD16@200	3.6 HD16@200	4.5 HD16@200	5.0 HD16@200	5.5 HD16@200	6.0 HD16@200	
6000				1.6 HD16@200	2.3 HD16@200	3.0 HD16@200	3.8 HD16@200	4.4 HD16@200	4.8 HD16@200	5.3 HD16@200	
6200					1.7 HD16@200	2.4 HD16@200	3.6 HD16@200	3.9 HD16@200	4.3 HD16@200	4.7 HD16@200	
6400						1.9 HD16@200	3.0 HD16@200	3.8 HD16@200	4.3 HD16@200	4.7 HD16@200	
6600						2.4 HD16@200	3.2 HD16@200	3.9 HD16@200	4.8 HD16@200	5.6 HD16@200	
6800						1.9 HD16@200	2.6 HD16@200	3.3 HD16@200	4.1 HD16@200	4.8 HD16@200	
7000							2.0 HD16@200	2.7 HD16@200	3.4 HD16@200	4.1 HD16@200	
7200								2.4 HD16@200	3.0 HD16@200	3.7 HD16@200	

**0.95mm Flatdeck Composite Floor Slab – Internal Spans  
Medium and Long Term Superimposed Loads (kPa) and Negative Reinforcement (mm<sup>2</sup>/m width)**

L (mm)	Slab Thickness, D <sub>s</sub> (mm)										
	110	120	130	140	150	160	170	180	190	200	
2000	21.3 HD16@300	23.0 HD16@300									
2200	18.2 HD16@300	19.7 HD16@300	21.2 HD16@300	22.6 HD16@300							
2400	15.7 HD16@300	17.0 HD16@300	18.5 HD16@300	19.8 HD16@300	21.1 HD16@300	22.4 HD16@300					
2600	14.0 HD16@250	15.1 HD16@300	16.2 HD16@300	17.4 HD16@300	18.6 HD16@300	19.8 HD16@300	21.0 HD16@300	22.1 HD16@300			
2800	12.4 HD16@250	13.4 HD16@250	14.5 HD16@300	15.5 HD16@300	16.6 HD16@300	17.6 HD16@300	18.6 HD16@300	19.7 HD16@300	20.8 HD16@300	21.9 HD16@300	
3000	11.1 HD16@250	12.0 HD16@250	12.9 HD16@250	13.9 HD16@300	14.9 HD16@300	15.7 HD16@300	16.7 HD16@300	17.7 HD16@300	18.6 HD16@300	19.6 HD16@300	
3200	10.0 HD16@250	10.8 HD16@250	11.6 HD16@250	12.5 HD16@250	13.3 HD16@300	14.2 HD16@300	15.1 HD16@300	16.0 HD16@300	16.8 HD16@300	17.8 HD16@300	
3400	8.5 HD16@200	9.8 HD16@250	10.6 HD16@250	11.4 HD16@250	12.2 HD16@250	12.9 HD16@250	13.7 HD16@300	14.5 HD16@300	15.3 HD16@300	16.1 HD16@300	
3600	6.9 HD16@200	8.9 HD16@200	9.7 HD16@250	10.4 HD16@250	11.1 HD16@250	11.8 HD16@250	12.5 HD16@250	13.3 HD16@250	14.0 HD16@300	14.7 HD16@300	
3800	5.7 HD16@200	7.4 HD16@200	8.8 HD16@200	9.5 HD16@250	10.2 HD16@250	10.8 HD16@250	11.5 HD16@250	12.2 HD16@250	12.8 HD16@250	13.5 HD16@250	
4000	4.6 HD16@200	6.1 HD16@200	7.8 HD16@200	8.7 HD16@200	9.3 HD16@250	10.0 HD16@250	10.6 HD16@250	11.2 HD16@250	11.8 HD16@250	12.4 HD16@250	
4200	3.7 HD16@200	5.0 HD16@200	6.5 HD16@200	8.0 HD16@200	8.6 HD16@200	9.2 HD16@250	9.7 HD16@250	10.3 HD16@250	10.9 HD16@250	11.4 HD16@250	
4400	3.0 HD16@200	4.1 HD16@200	5.3 HD16@200	6.8 HD16@200	8.0 HD16@200	8.5 HD16@200	9.0 HD16@250	9.5 HD16@250	10.1 HD16@250	10.6 HD16@250	
4600	2.3 HD16@200	3.3 HD16@200	4.4 HD16@200	5.6 HD16@200	7.0 HD16@200	7.9 HD16@200	8.3 HD16@200	8.8 HD16@200	9.3 HD16@250	9.8 HD16@250	
4800	1.8 HD16@200	2.6 HD16@200	3.6 HD16@200	4.6 HD16@200	5.9 HD16@200	7.2 HD16@200	7.8 HD16@200	8.2 HD16@200	8.7 HD16@200	9.1 HD16@200	
5000		2.0 HD16@200	2.8 HD16@200	3.8 HD16@200	4.9 HD16@200	6.1 HD16@200	7.2 HD16@200	7.6 HD16@200	8.1 HD16@200	8.6 HD16@200	
5200			2.2 HD16@200	3.0 HD16@200	4.0 HD16@200	5.0 HD16@200	6.2 HD16@200	7.2 HD16@200	7.6 HD16@200	8.0 HD16@200	
5400			1.6 HD16@200	2.4 HD16@200	3.2 HD16@200	4.1 HD16@200	5.4 HD16@200	6.6 HD16@200	7.1 HD16@200	7.5 HD16@200	
5600				1.7 HD16@200	2.8 HD16@200	3.6 HD16@200	4.6 HD16@200	5.6 HD16@200	6.7 HD16@200	7.0 HD16@200	
5800					2.2 HD16@200	3.0 HD16@200	3.8 HD16@200	4.7 HD16@200	5.6 HD16@200	6.6 HD16@200	
6000					1.6 HD16@200	2.4 HD16@200	3.5 HD16@200	3.9 HD16@200	4.5 HD16@100	5.4 HD16@100	
6200						1.7 HD16@200	2.9 HD16@100	3.7 HD16@100	4.5 HD16@100	5.8 HD16@100	
6400						1.1 HD16@200	2.2 HD16@100	3.0 HD16@100	3.8 HD16@100	4.6 HD16@100	
6600							1.6 HD16@100	2.3 HD16@100	3.1 HD16@100	3.9 HD16@100	
6800								1.7 HD16@100	2.4 HD16@100	3.2 HD16@100	
7000									1.7 HD16@100	2.4 HD16@100	
7200										2.1 HD16@100	