

## FD300 Design Manual

Formdeck: 0.75 BMT

Concrete: 32 Mpa

Design Criteria: Incremental Deflection & Strength

Output: Maximum allowable Live Load (kN/m<sup>2</sup>)

Slab Thickness	Single Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	10.0	4.0	1.0						
120	20.0	9.5	4.0	1.0					
150		20.0	12.0	6.0	2.5				
170			13.0	10.5	5.5	2.8			
180				13.0	7.0	3.5	1.0		
200				18.0	11.0	6.5	3.0	1.0	
225				19.0	16.0	11.0	6.0	2.5	1.0
250					18.0	15.0	10.0	5.5	3.0

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Design: Total Deflection & Strength

Output: Maximum allowable Live Load (kN/m<sup>2</sup>)

Slab Thickness	Single Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	19.0	7.5	2.0						
120	20.0	16.0	7.0	2.5					
150		20.0	18.5	9.5	4.5				
170				15.5	8.5	4.5	1.0		
180				16.5	11.0	5.5	2.5		
200				18.5	14.5	9.5	5.0	2.0	
225				19.5	16.0	13.0	8.5	4.5	1.5
250					18.5	15.0	12.0	8.5	5.0

### Important Notes:

1. Total Slab Deflection < Span/250
2. Incremental Slab Deflection < Span/500
3. Loads used in computations are Dead Load (Weight of slab) and 2550 kg/m<sup>3</sup> DL (Concrete & Reinforcement)
4. Design of composite slab, slab capacity and long term deflection calculation need to be carried out by a qualified structural engineer.
5. For back propping requirements refer to formwork charts.
6. Increase of internal span < 15% possible.

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Slab Thickness	Continuous Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	18.0	8.5	4.0						
120	20.0	16.0	8.5	4.5	1.5				
150			19.5	12.0	6.5	3.5	1.5		
170			20.0	17.5	11.0	6.5	4.0	1.5	
180			20.0	19.5	13.5	8.5	5.0	2.5	
200						13.0	8.5	5.0	2.5
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Slab Thickness	Continuous Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	20.0	12.5	6.0	2.5					
120	20.0	20.0	12.0	6.5	3.0	1.0			
150			20.0	16.5	10.0	5.5	2.5	1.0	
170			20.0	19.5	15.0	10.0	5.5	3.0	
180			20.0	20.0	16.0	12.5	7.5	4.5	2.0
200						15.0	12.0	7.5	4.5
225						17.0	14.0	11.5	7.0
250						19.0	16.0	13.0	11.0

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100	11.0	4.0							
120	20.0	10.0	4.0						
150		20.0	12.0	6.0	2.5				
170				10.5	5.5	2.5			
180				13.0	7.0	3.5	1.0		
200				18.5	11.5	6.5	3.0	1.0	
225				20.0	16.0	9.5	5.5	2.5	
250					19.5	15.0	10.0	5.5	3.0

Formdeck: 0.9 BMT

Concrete: 32 Mpa

Design Criteria: Total Deflection & Strength

Output: Maximum allowable Live Load (kN/m<sup>2</sup>)

Slab Thickness	Single Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	20.0	4.5							
120	20.0	17.5	7.5	4.0					
150		20.0	19.5	10.0	4.5	1.0			
170				16.0	9.0	4.0	1.0		
180				17.5	11.5	6.0	2.5		
200				19.0	7.5	10.0	5.5	2.0	
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