FD300

Composite Structural Steel Formwork System

USER & INSTALLATION GUIDE

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FORMDECK AUSTRALIA PTY LTD

Formdeck300 (FD300) is a very efficient and durable permanent metal tray formwork, reinforcement and ceiling system used for suspended concrete slab construction.

FD300 is an easy to use 300mm cover interlocking deck with deep swage pan stiffeners providing a strong fast and cost effective formwork solution. It is ideal for exposed ceiling applications and can be made available in colorbond finish to the soffit.

FD300 Features and Benefits

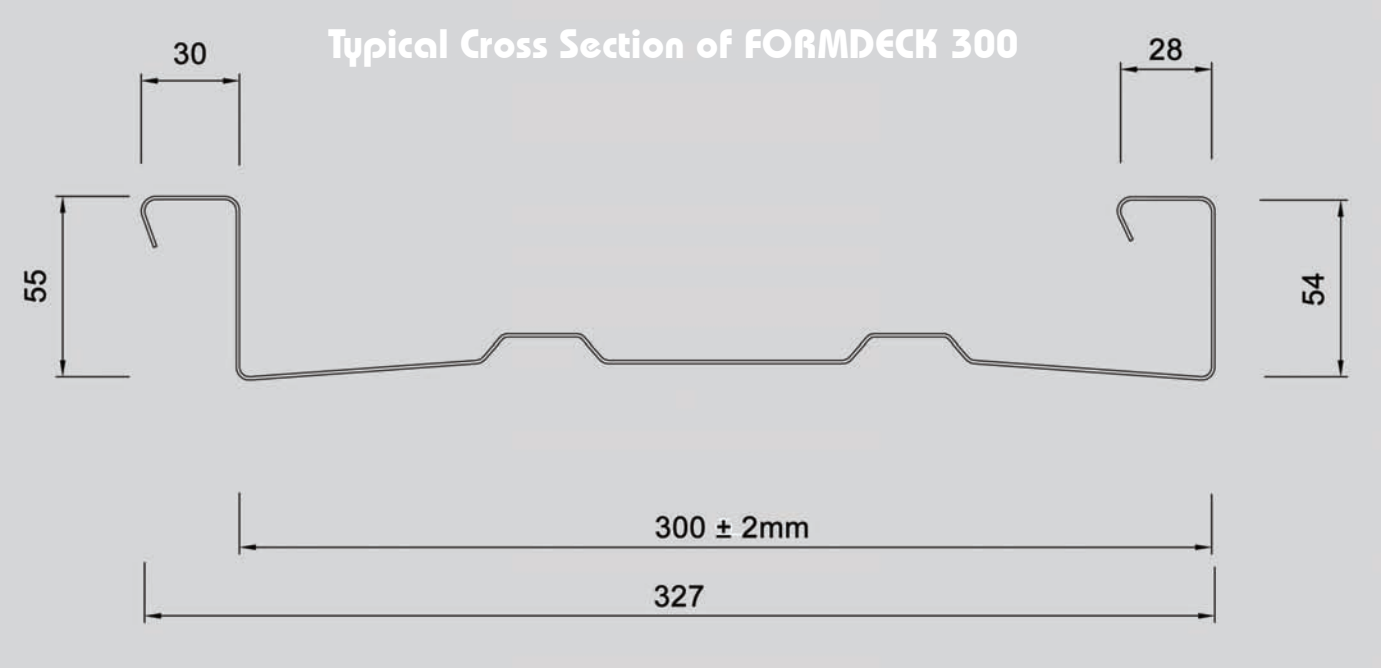
FEATURE	BENEFIT
300mm Cover	- easy to walk on - easy to cut and trim
Hinge Side Laps	- no fasteners required
Quick Installation	- economical
Flat Soffit (no gaps)	- clean aesthetically pleasing with streamline finish - easy to finish paint or spray - no filler strips required - minimal seepage
Permanent Formwork	- becomes part of slab - reduces propping, formwork stripping and bottom reinforcement
Fire Rating Benefits	- FD300 unique closed rib profile reduces FER (fire emergency reinforcement) when encased in concrete
High Tensile Steel	- light weight with high strength - reduces propping - simple to install
Locally Made	- quick turnaround - design assistance and conversion - measure and scheduling service available

FD300 Material Specifications

FD300 is a cold rolled formed section manufactured from high-tensile (G550) steel.
It is available in 0.75, 0.90 or 1.00 mm Base Metal Thickness (BMT).
The galvanized coating thickness is a Z350 (350g/m²) in full conformance with AS1397.

In special circumstances FD300 may be obtained in:

- other BMT (Different gauges)
- pre-painted colorbond finishes to the underside
- non-standard zinc coating mass
- GALFAN material for extreme or highly corrosive environments

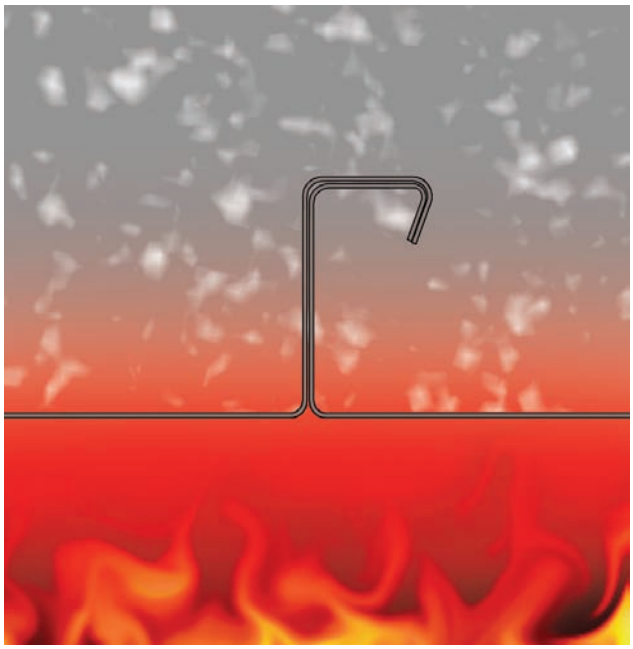


FD300 Profile Properties

THICKNESS (MM)	CROSS SECTIONAL AREA SHEET (mm^2)	CROSS SECTIONAL AREA SHEET (mm^2/M)	MOMENT OF INTERIA (10^5mm^4)	ZINC COATING (G/M)²	YEILD STRENGTH MPa
0.75	350.65	1192.1	4.35	Z350	550
0.90	419.48	1426.23	5.2	Z350	550
1.00	465.14	1581.47	5.75	Z350	550

fire Rating

It has been tested and shown that the inter-locking ribs of the Formdeck300 when fully embedded in a concrete slab, will retain a majority of its strength through its ribs in exposed fire conditions for up to two hours. Further to this the rib strength can be used to reduce the quantity of bottom (FER) Fire Emergency Reinforcement mesh in slabs.



Fire Resistance Period	Base Material Thickness		
(MIN)	0.75	0.90	1.00
30	260	300	340
60	248	380	330
90	280	320	380
120	260	300	360
	Reinforcement Contribution mm2/m		

Notes:

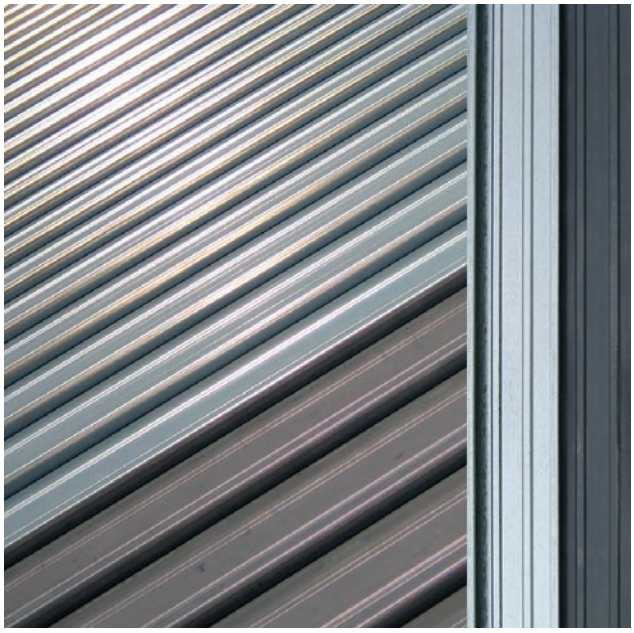
1. Table applies to Formdeck 300 profile only
2. Base material G550
3. Yield Strength reinforcement 500MPa
4. Based on WFRA Report No 46023

Anti-Glare

Formdeck300 comes available with a grey anti-glare coating. This coating is a water-based material that is applied on line during the production stage and dries within minutes.

The anti-glare coating is applied to the pans only of the FD300, this ensures that the chemical bond between the deck and the concrete is fully effective, and hence does not compromise the composite slab performance.

The non reflective coating reduces light reflection by more than 80% improving safety and on site working conditions.



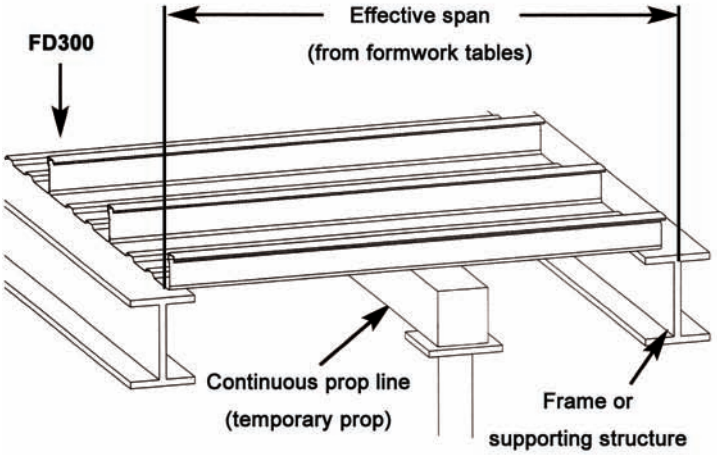
Temporary Propping

Temporary propping, where required, must provide continuous transverse (across the sheet) support at the prescribed spacings. The prop bearer width must be no less than 100mm, unless established by calculation.

Continuous support is generally provided by substantial timber or steel beams supported by vertical props. If the deck soffit is to be left exposed, it is recommended that a piece of caneite or similar be placed between the bearer and the deck.

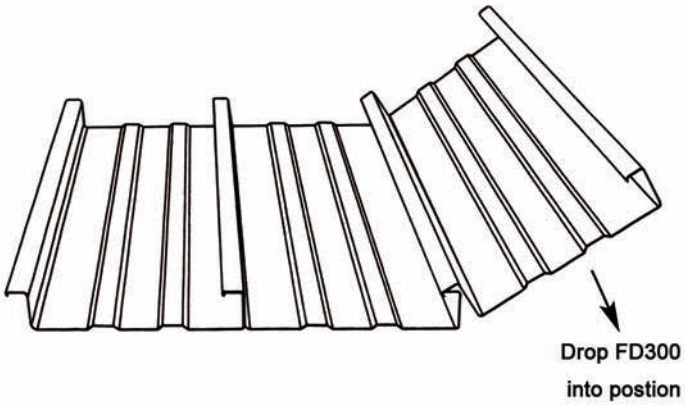
All propping should meet the requirements of AS3610. Prop bearers should not be placed higher than the permanent end support.

Temporary propping must not be removed until the slab has cured sufficiently. Prop removal procedure should be in accordance with AS3610 and engineers recommendations.



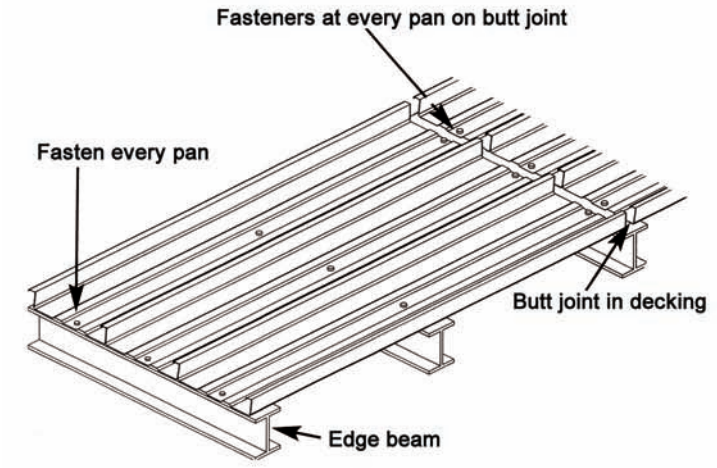
Decking Placement

Formdeck 3000 Decking is easily placed by hinging the overlap edge of one sheet over the underlap edge of the previous sheet. If the decking is used as a platform for laying subsequent sheets, designated propping must be positioned first.



Fixing

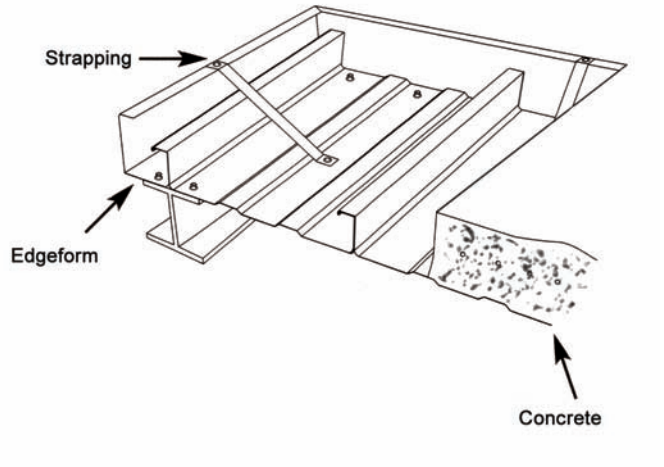
Once decking panels are laid they should immediately be secured against possible wind uplift. Typically use one fixing per pan at end supports, and one fixing every third pan at permanent internal supports. Self-drilling and tapping screws or powder actuated drive pins are commonly used. These fixings should be adjacent to the decking ribs. In the exposed conditions additional fixing may be required. Shear studs, if used, attached immediately after decking placement, or puddle welds, will provide wind uplift resistance.



Installing FD300

Slab Edgeforma

Is a lightweight, easy to use, galvanised steel edge trim. It is made to the size of your slab height. The top flange of the edgeforma is then tied back to the FD300 ribs at every 600mm usually with galvanised strapping.
(refer to diagram)



Reinforcement

Place the shrinking and temperature reinforcement (fabric) such that minimum cover requirements as per AS3600 is achieved. The fabric shall be properly lapped and tied to ensure continuity in both directions.

If the slab has been designed as continuous, then additional steel reinforcement as specified by the Engineer shall be provided over supports.

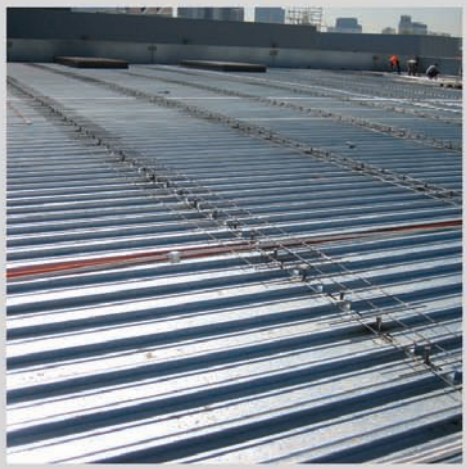
Concrete Pouring

Finally, the concrete must be poured evenly to the panel ends on prepared clean deck, in the direction of span of decking. Heaping of wet concrete must be avoided.

The concrete should be placed in accordance with the requirements of AS3600 and have a minimum 28 day compressive strength f'c=25MPa and slump satisfying the Engineers requirements. As a guide the slump should be 60mm-80mm for vibrator compaction. Hand compaction is not recommended.

Admixtures

Chemical admixtures can be used provided they are in accordance with AS3600 (Cl.19.1.1)



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FD300 Formwork Tables

0.75 Steel Thickness

Slab Thickness	Single Span	Double Span	Continuous Span
100	2100	2500	2500
120	2100	2300	2300
150	2000	2300	2250
170	1800	2200	2250
180	1800	2200	2250
200	1700	2000	2050
225	1650	1900	1950
250	1600	1750	1850

I	4.35 x10^5mm^4
W - constuction load	1.5 kPa
W - SDL	2550 kg/m^3
Deflection Limit	**L/240**

0.90 Steel Thickness

Slab Thickness	Single Span	Double Span	Continuous Span
100	2150	2900	2750
120	2150	2850	2700
150	2100	2550	2450
170	2000	2400	2300
180	2000	2400	2300
200	1900	2200	2200
225	1850	2150	2150
250	1800	2050	2100

I	5.2 x10^5mm^4
W - constuction load	1.5 kPa
W - SDL	2550 kg/m^3
Deflection Limit	**L/240**

1.00 Steel Thickness

Slab Thickness	Single Span	Double Span	Continuous Span
100	2300	3100	2800
120	2300	2950	2750
150	2200	2750	2600
170	2100	2650	2500
180	2100	2650	2500
200	2000	2450	2350
225	1950	2300	2300
250	1850	2200	2200

I	5.75 x10^5mm^4
W - constuction load	1.5 kPa
W - SDL	2550 kg/m^3
Deflection Limit	**L/240**

Important Notes:

1. Deflection criteria used in the above compulations is span/240 to prevent slabs from sagging. The results is an even and aesthetically underside for exposed soffits.
2. Loads used in computations are 1.5 kN/m² Live Load and 2550 kg/m³ DL (Wet concrete andself weight of sheeting and reinforcement)
3. Tabels are given showing the maximum allowable span between temporary supports (formwork).
4. Tables are for formwork only.
5. Design of composite slab, slab capacity and long term deflection calculation need to be carried out by qualified structural engineer.

FD300 Design

Formdeck: 0.75 BMT
Concrete: 32 Mpa
Design Criteria: Incremental Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

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

Formdeck: 0.75 BMT
Concrete: 32 Mpa
Design: Total Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

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/m3 DL (Concrete & Reinforcement)
4. Design of composite slab, slab capacity and long term deflection calculation need to be car ried out by a qualified structural engineer.
5. For back propping requirements refer to formwork charts.
6. Increase of internal span < 15% possible.

FD300 Design

Formdeck: 0.75 BMT
Concrete: 32 Mpa
Design Criteria: Incremental Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

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
225						16.5	12.0	7.5	4.5
250						19.0	16.0	12.5	8.5

Formdeck: 0.75 BMT
Concrete: 32 Mpa
Design: Total Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

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

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/m3 DL (Concrete & Reinforcement)
4. Design of composite slab, slab capacity and long term deflection calculation need to be car ried out by a qualified structural engineer.
5. For back propping requirements refer to formwork charts.
6. Increase of internal span < 15% possible.

FD300 Design

Formdeck: 0.9 BMT
Concrete: 32 Mpa
Design Criteria: Incremental Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

Slab Thickness	Single Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
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/m2)

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	
225				20.0	17.0	13.5	9.0	4.6	1.5
250					19.5	15.5	12.5	9.0	5.5

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/m3 DL (Concrete & Reinforcement)
4. Design of composite slab, slab capacity and long term deflection calculation need to be car ried out by a qualified structural engineer.
5. For back propping requirements refer to formwork charts.
6. Increase of internal span < 15% possible.

FD300 Design

Formdeck: 0.9 BMT
Concrete: 32 Mpa
Design Criteria: Incremental Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

Slab Thickness	Continuous Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	18.0	8.5	4.0	1.0					
120	20.0	16.5	8.5	4.0	1.5				
150			19.0	12.0	6.5	3.5	1.5		
170			20.0	12.5	11.0	6.5	3.5	1.5	
180			20.0	19.5	13.0	8.5	5.0	2.5	1.0
200						12.5	8.0	5.0	2.6
225						15.0	12.0	7.5	4.5
250						19.0	16.0	7.5	8.5

Formdeck: 0.9 BMT
Concrete: 32 Mpa
Design Criteria: Total Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

Slab Thickness	Continuous Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	20.0	13.0	6.0	2.5					
120	20.0	20.0	13.0	6.5	3.0	1.0			
150			20.0	17.5	10.0	5.0	2.5		
170			20.0	20.0	16.0	10.0	6.0	3.0	1.0
180			20.0	20.0	17.0	12.5	7.0	4.0	2.0
200						15.5	12.0	7.5	4.5
225						17.5	15.0	11.5	8.0
250						19.0	16.0	14.0	11.0

Important Notes:

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4. Design of composite slab, slab capacity and long term deflection calculation need to be car ried out by a qualified structural engineer.
5. For back propping requirements refer to formwork charts.
6. Increase of internal span < 15% possible.

FD300 Design

Formdeck: 1.0 BMT
Concrete: 32 Mpa
Design Criteria: Incremental Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

Slab Thickness	Single Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	11.5	4.0							
120	20.0	10.0	4.0	1.0					
150		18.0	9.5	4.0	1.0				
170				11.0	5.5	2.0			
180				13.0	7.0	3.5	1.0		
200				18.0	11.0	6.5	3.0	1.0	
225				20.0	16.0	10.0	5.5	2.5	1.0
250					20.0	15.5	10.0	5.5	3.0

Formdeck: 1.0 BMT
Concrete: 32 Mpa
Design Criteria: Total Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

Slab Thickness	Single Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	20.0	8.5	2.5						
120	20.0	18.0	8.0	2.5					
150		20.0	20.0	10.5	5.0	1.5			
170				17.0	9.5	4.0	1.0		
180				18.0	12.0	6.5	2.5		
200				19.5	16.0	10.5	5.5	2.0	
225				20.0	17.5	14.0	9.0	5.0	1.5
250					20.0	16.0	13.0	9.5	5.0

Important Notes:

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FD300 Design

Formdeck: 1.0 BMT
Concrete: 32 Mpa
Design Criteria: Incremental Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

Slab Thickness	Continuous Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	18.0	8.5	4.0	1.5					
120	20.0	17.0	8.0	4.5	1.5				
150			19.0	12.0	6.5	3.5	1.5		
170			20.0	18.0	11.0	6.5	3.5	1.5	
180			20.9	19.5	13.0	8.5	5.0	2.5	
200						13.0	8.0	5.0	2.5
225						17.5	12.0	7.5	4.5
250						19.5	17.0	12.5	8.5

Formdeck: 1.0 BMT
Concrete: 32 Mpa
Design Criteria: Total Deflection & Strength
Output: Maximum allowable Live Load (kN/m2)

Slab Thickness	Continuous Slab Span								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
100	20.0	13.5	6.0	2.5					
120	20.0	20.0	13.5	7.0	3.0				
150			20.0	18.0	10.0	5.5	2.5	1.0	
170			20.0	20.0	17.0	10.0	6.0	3.0	
180			20.0	20.0	18.0	12.0	7.5	4.5	2.0
200						16.0	12.5	7.5	4.5
225						17.5	15.0	12.0	8.0
250						19.5	17.0	14.0	12.0

Important Notes:

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3. Loads used in computations are Dead Load (Weight of slab) and 2550 kg/m3 DL (Concrete & Reinforcement)
4. Design of composite slab, slab capacity and long term deflection calculation need to be car ried out by a qualified structural engineer.
5. For back propping requirements refer to formwork charts.
6. Increase of internal span < 15% possible.

Formdeck (FD300) Design Positive Moment Capacity, φ M+ uo

Table A.1 Formdeck (FD300) BMT 1.00mm Design Positi ve Momenet Capacity, ϕM^{+}_{uo} (kNm/m)

	t_{bm} = 1.00 mm; f'_c = 25 MPa					t_{bm} = 1.00 mm; f'_c = 32 MPa				
	Values of M^{+}_{uo} for $_1$ =					Values of M^{+}_{uo} for $_1$ =				
D_c (mm)	0.2	0.4	0.6	0.8	1.0	0.2	0.4	0.6	0.8	1.0
100	18.5	29.9	38.6	43.5	45.3	18.6	30.4	39.7	45.5	48.4
110	19.9	32.7	42.8	49.1	52.2	20.0	33.2	43.9	51.1	55.3
120	21.3	35.5	46.9	54.7	59.2	21.4	36.0	48.0	56.7	62.3
130	22.7	38.3	51.1	60.2	66.1	22.8	38.8	52.2	62.2	69.2
140	24.0	41.0	55.3	65.8	73.1	24.2	41.5	56.4	67.8	76.2
150	25.4	43.8	59.5	71.4	80.0	25.6	44.3	60.6	73.4	83.2
160	26.8	46.6	63.6	76.9	87.0	27.0	47.1	64.7	78.9	90.1
170	28.2	49.4	67.8	82.5	94.0	28.3	49.9	68.9	84.5	97.1
180	29.6	52.2	72.0	88.1	100.9	29.7	52.7	73.1	90.1	104.0
190	31.0	55.0	76.2	93.6	107.9	31.1	55.5	77.3	95.6	111.0
200	32.4	57.7	80.3	99.2	114.8	32.5	58.2	81.4	101.2	118.0
210	33.8	60.5	84.5	104.8	121.8	33.9	61.0	85.6	106.8	124.9
220	35.2	63.3	88.7	110.3	128.8	35.3	63.8	89.8	112.3	131.9
230	36.6	66.1	92.9	115.9	135.7	36.7	66.6	94.0	117.9	138.8
240	38.0	68.9	97.0	121.5	142.7	38.1	69.4	98.1	123.5	145.8
250	39.4	71.7	101.2	127.0	149.6	39.5	72.2	102.3	129.0	152.7

Table A.2 Formdeck (FD300) BMT 0.90mm Design Positive Momenet Capacity, ϕM^{+}_{uo} (kNm/m)

	t_{bm} = 0.90 mm; f'_c = 25 MPa					t_{bm} = 0.90 mm; f'_c = 32 MPa				
	Values of ϕM^{+}_{uo} for β_1 =					Values of ϕM^{+}_{uo} for β_1 =				
D_c (mm)	0.2	0.4	0.6	0.8	1.0	0.2	0.4	0.6	0.8	1.0
100	16.8	27.3	35.3	40.1	42.1	16.9	27.7	36.3	41.7	44.6
110	18.1	29.8	39.1	45.1	48.3	18.2	30.2	40.0	46.8	50.9
120	19.4	32.3	42.9	50.2	54.6	19.5	32.7	43.8	51.8	57.2
130	20.6	34.8	46.6	55.2	60.9	20.7	35.2	47.6	56.8	63.4
140	21.9	37.3	50.4	60.2	67.2	22.0	37.7	51.3	61.8	69.7
150	23.1	39.8	54.2	65.2	73.4	23.2	40.2	55.1	66.8	76.0
160	24.4	42.4	57.9	70.2	79.7	24.5	42.8	58.8	71.9	82.3
170	25.6	44.9	61.7	75.3	86.0	25.7	45.3	62.6	76.9	88.5
180	26.9	47.4	65.5	80.3	92.3	27.0	47.8	66.4	81.9	94.8
190	28.1	49.9	69.2	85.3	98.5	28.2	50.3	70.1	86.9	101.1
200	29.4	52.4	73.0	90.3	104.8	29.5	52.8	73.9	91.9	107.4
210	30.6	54.9	76.8	95.3	111.1	30.7	55.3	77.7	97.0	113.6
220	31.9	57.4	80.5	100.4	117.4	32.0	57.8	81.4	102.0	119.9
230	33.2	59.9	84.3	105.4	123.6	33.3	60.3	85.2	107.0	126.2
240	34.4	62.4	88.1	110.4	129.9	34.5	62.8	89.0	112.0	132.5
250	35.7	64.9	91.8	115.4	136.2	35.8	65.3	92.7	117.0	138.7

Formdeck (FD300) Design Positive Moment Capacity, φ M+ uo

Table A.3 Formdeck (FD300) BMT 0.75mm Design Positive Momenet Capacity, ϕ M^{+}_{uo} (kNm/m)

	t_{bm} = 0.75 mm; f'_c = 25 MPa					t_{bm} = 0.75 mm; f'_c = 32 MPa				
	Values of ϕM^{+}_{uo} for β_1 =					Values of ϕM^{+}_{uo} for β_1 =				
D_c (mm)	0.2	0.4	0.6	0.8	1.0	0.2	0.4	0.6	0.8	1.0
100	13.3	22.2	29.4	34.1	36.8	13.3	22.5	30.1	35.3	38.5
110	14.3	24.3	32.6	38.3	42.0	14.4	24.6	33.2	39.4	43.8
120	15.4	26.4	35.7	42.5	47.2	15.4	26.7	36.3	43.6	49.0
130	16.4	28.5	38.9	46.7	52.5	16.5	28.8	39.5	47.8	54.3
140	17.5	30.6	42.0	50.9	57.7	17.5	30.9	42.6	52.0	59.5
150	18.5	32.7	45.2	55.1	63.0	18.6	33.0	45.8	56.2	64.7
160	19.6	34.8	48.3	59.3	68.2	19.6	35.1	48.9	60.4	70.0
170	20.6	36.9	51.4	63.5	73.5	20.7	37.2	52.1	64.6	75.2
180	21.7	39.0	54.6	67.7	78.7	21.7	39.3	55.2	68.8	80.5
190	22.7	41.1	57.7	71.9	84.0	22.8	41.4	58.4	73.0	85.7
200	23.8	43.2	60.9	76.1	89.2	23.8	43.5	61.5	77.2	91.0
210	24.8	45.3	64.0	80.3	94.4	24.9	45.6	64.7	81.4	96.2
220	25.8	47.4	67.2	84.5	99.7	25.9	47.7	67.8	85.6	101.5
230	26.9	49.5	70.3	88.7	104.9	27.0	49.8	71.0	89.8	106.7
240	27.9	51.6	73.5	92.9	110.2	28.0	51.9	74.1	94.0	111.9
250	29.0	53.7	76.6	97.1	115.4	29.1	54.0	77.3	98.2	117.2

Formdeck FD300 Design Positive Vertical Shear Capacity $V_{+ uc}$

Table B.1 FORMDECK FD300 Design Positive Vertical Shear Capacity V^{+}_{uc} (kN/m)

	t_{bm} = 1.00 mm		t_{bm} = 0.90 mm		t_{bm} = 0.75 mm	
	Values of ϕV^{+}_{uc} for μ =		Values of ϕV^{+}_{uc} for μ =		Values of ϕV^{+}_{uc} for μ =	
D_c (mm)	0.00	0.42	0.00	0.42	0.00	0.42
100	53.5	74.4	51.0	70.8	39.8	55.3
110	52.3	72.6	49.9	69.3	39.7	55.2
120	51.5	71.5	49.4	68.5	40.0	55.6
130	51.1	71.0	49.2	68.3	40.5	56.3
140	51.1	71.0	49.3	68.4	41.3	57.3
150	51.3	71.2	49.6	68.9	42.1	58.5
160	51.7	71.8	50.1	69.6	43.1	59.9
170	52.3	72.7	50.8	70.6	44.2	61.4
180	53.0	73.7	51.6	71.7	45.4	63.1
190	53.9	74.9	52.6	73.0	46.7	64.8
200	54.9	76.2	53.6	74.4	48.0	66.6
210	55.9	77.6	54.7	75.9	49.3	68.5
220	57.0	79.2	55.9	77.6	50.8	70.5
230	58.2	80.8	57.1	79.3	52.2	72.5
240	59.4	82.6	58.4	81.1	53.7	74.6
250	60.7	84.3	59.7	82.9	55.2	76.7