

MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Residential			Span Tables 				
	SIDL: 1.5 kPa			Limit State Design				
	LL: 1.92 kPa			Metric				
	20 Ga. Steel deck thickness							
	Maximum allowable single span in meters (m)							
Rib Rebar	Total slab thickness (mm)							
	267	279	292	305	318	330	343	356
10M	6.30	6.45	6.50	6.60	6.72	6.80	6.90	7.00
15M	7.10	7.25	7.30	7.45	7.50	7.60	7.65	7.70
20M	7.80	7.90	8.10	8.15	8.25	8.30	8.40	8.45
25M	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70
30M	9.35	9.85	10.30	10.40	10.50	10.60	10.65	10.70
35M	9.75	10.15	10.65	11.15	11.80	11.95	12.00	12.20

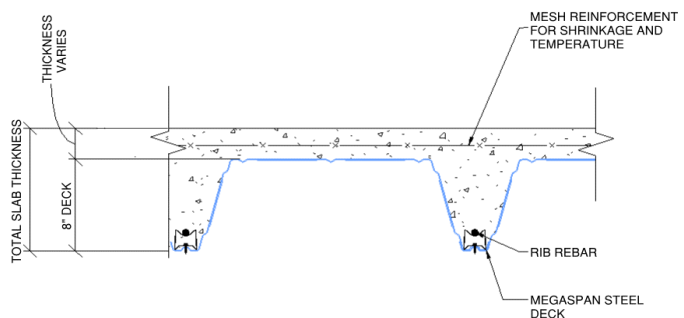
MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Residential					Span Tables 		
	SIDL: 1.5 kPa					Limit State Design		
	LL: 1.92 kPa					Metric		
	18 Ga. Steel deck thickness							
	Maximum allowable single span in meters (m)							
Rib Rebar	Total slab thickness (mm)							
	267	279	292	305	318	330	343	356
10M	6.80	6.90	7.05	7.10	7.20	7.40	7.45	7.50
15M	7.50	7.65	7.70	7.90	7.95	8.08	8.13	8.17
20M	8.09	8.19	8.40	8.50	8.65	8.70	8.78	8.84
25M	9.25	9.40	9.50	9.60	9.80	9.85	10.00	10.05
30M	9.40	9.80	10.50	10.65	10.80	10.90	11.00	11.10
35M	9.85	10.20	10.75	11.15	11.65	12.20	12.40	12.60

MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Residential					Span Tables 		
	SIDL: 1.5 kPa					Limit State Design		
	LL: 1.92 kPa					Metric		
	16 Ga. Steel deck thickness							
	Maximum allowable single span in meters (m)							
Rib Rebar	Total slab thickness (mm)							
	267	279	292	305	318	330	343	356
10M	8.70	9.10	9.30	9.50	9.60	9.90	9.94	10.15
15M	8.90	9.35	10.00	10.20	10.40	10.45	10.65	10.80
20M	9.05	9.65	10.05	10.65	10.80	11.00	11.10	11.20
25M	9.35	9.85	10.35	10.75	11.25	11.80	11.90	12.10
30M	9.55	9.95	10.55	11.15	11.55	12.10	12.40	12.75
35M	9.85	10.35	10.85	11.35	11.85	12.20	12.50	12.90

TABLE NOTES:

- Values are based on normal concrete density = 2400 kg/m³ and concrete yield strength = 30 MPa.
- Deflection criteria considered is L/360 based on CSSBI S3-2019: Criteria for the Design of Composite Slabs.
- Load calculations are based on CSSBI 12M - 2019: Standard for Composite Steel Deck.
- Wire mesh reinforcement size: 152X152 MW 18.7X18.7 to prevent shrinkage and temperature cracks.
- Please refer to Megaspan tables for more loading combinations or contact us at contact@cpt-group.ca for specific load requirements.

TYPICAL MEGASPAN PROFILE



MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Commercial					Span Tables 		
	SIDL: 1.5 kPa					Limit State Design		
	LL: 4.8 kPa					Metric		
	20 Ga. Steel deck thickness							
	Maximum allowable single span in meters (m)							
Rib Rebar	Total slab thickness (mm)							
	267	279	292	305	318	330	343	356
10M	5.05	5.20	5.30	5.40	5.45	5.50	5.70	5.80
15M	5.65	5.80	6.00	6.05	6.20	6.30	6.40	6.50
20M	6.20	6.40	6.50	6.60	6.80	6.90	7.00	7.10
25M	7.20	7.30	7.45	7.50	7.70	7.90	8.00	8.10
30M	7.60	8.00	8.20	8.40	8.60	8.70	8.80	9.00
35M	7.80	8.20	8.60	9.00	9.40	9.80	10.00	10.10

MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Commercial					Span Tables 		
	SIDL: 1.5 kPa					Limit State Design		
	LL: 4.8 kPa					Metric		
	18 Ga. Steel deck thickness							
	Maximum allowable single span in meters (m)							
Rib Rebar	Total slab thickness (mm)							
	267	279	292	305	318	330	343	356
10M	5.40	5.60	5.70	5.80	6.00	6.10	6.20	6.30
15M	6.00	6.20	6.30	6.40	6.60	6.70	6.80	6.90
20M	6.50	6.60	6.80	7.00	7.10	7.20	7.30	7.40
25M	7.40	7.60	7.70	7.90	8.00	8.20	8.30	8.40
30M	7.60	8.00	8.40	8.70	8.80	9.00	9.10	9.20
35M	7.80	8.20	8.60	9.00	9.40	9.80	10.20	10.30

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15M	7.20	7.60	8.00	8.30	8.50	8.70	8.80	9.00
20M	7.30	7.70	8.10	8.50	8.90	9.00	9.20	9.40
25M	7.50	7.90	8.30	8.50	9.10	9.50	10.00	10.10
30M	7.70	8.10	8.50	8.90	9.30	9.70	10.10	10.40
35M	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80

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