

MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Residential			Span Tables 				
	SIDL: 31.25 psf			Limit State Design				
	LL: 40 psf			Imperial				
	20 Ga. Steel deck thickness							
	Maximum allowable single span in feet (ft.)							
Rib Rebar	Total slab thickness (in.)							
	10.5	11	11.5	12	12.5	13	13.5	14
10M	20.67	21.16	21.33	21.65	22.05	22.31	22.64	22.97
15M	23.30	23.79	23.95	24.44	24.61	24.94	25.10	25.26
20M	25.59	25.92	26.58	26.74	27.07	27.23	27.56	27.72
25M	29.53	29.86	30.19	30.51	30.84	31.17	31.50	31.83
30M	30.68	32.32	33.79	34.12	34.45	34.78	34.94	35.11
35M	31.99	33.30	34.94	36.58	38.72	39.21	39.37	40.03

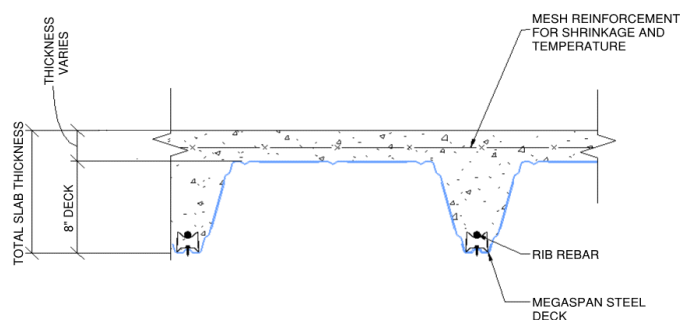
MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Residential					Span Tables		
	SIDL: 31.25 psf					Limit State Design		
	LL: 40 psf					Imperial		
	18 Ga. Steel deck thickness							
	Maximum allowable single span in feet (ft.)							
Rib Rebar	Total slab thickness (in.)							
	10.5	11	11.5	12	12.5	13	13.5	14
10M	22.31	22.64	23.13	23.30	23.62	24.28	24.44	24.61
15M	24.61	25.10	25.26	25.92	26.08	26.51	26.67	26.81
20M	26.54	26.87	27.56	27.89	28.38	28.54	28.81	29.00
25M	30.35	30.84	31.17	31.50	32.15	32.32	32.81	32.97
30M	30.84	32.15	34.45	34.94	35.43	35.76	36.09	36.42
35M	32.32	33.47	35.27	36.58	38.22	40.03	40.68	41.34

MegaSPAN COMPOSITE FLOORING SYSTEM	Building Type: Residential					Span Tables 		
	SIDL: 31.25 psf					Limit State Design		
	LL: 40 psf					Imperial		
	16 Ga. Steel deck thickness							
	Maximum allowable single span in feet (ft.)							
Rib Rebar	Total slab thickness (in.)							
	10.5	11	11.5	12	12.5	13	13.5	14
10M	28.54	29.86	30.51	31.17	31.50	32.48	32.61	33.30
15M	29.20	30.68	32.81	33.47	34.12	34.29	34.94	35.43
20M	29.69	31.66	32.97	34.94	35.43	36.09	36.42	36.75
25M	30.68	32.32	33.96	35.27	36.91	38.72	39.04	39.70
30M	31.33	32.65	34.61	36.58	37.90	39.70	40.68	41.83
35M	32.32	33.96	35.60	37.24	38.88	40.03	41.01	42.32

TABLE NOTES:

- Values are based on normal concrete density = 145 pcf and concrete yield strength = 4,350 psi.
- 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: 31.25 psf					Limit State Design		
	LL: 100 psf					Imperial		
	20 Ga. Steel deck thickness							
	Maximum allowable single span in feet (ft.)							
Rib Rebar	Total slab thickness (in.)							
	10.5	11	11.5	12	12.5	13	13.5	14
10M	16.57	17.06	17.39	17.72	17.88	18.05	18.70	19.03
15M	18.54	19.03	19.69	19.85	20.34	20.67	21.00	21.33
20M	20.34	21.00	21.33	21.65	22.31	22.64	22.97	23.30
25M	23.62	23.95	24.44	24.61	25.26	25.92	26.25	26.58
30M	24.94	26.25	26.90	27.56	28.22	28.54	28.87	29.53
35M	25.59	26.90	28.22	29.53	30.84	32.15	32.81	33.14

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	SIDL: 31.25 psf					Limit State Design		
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	18 Ga. Steel deck thickness							
	Maximum allowable single span in feet (ft.)							
Rib Rebar	Total slab thickness (in.)							
	10.5	11	11.5	12	12.5	13	13.5	14
10M	17.72	18.37	18.70	19.03	19.69	20.01	20.34	20.67
15M	19.69	20.34	20.67	21.00	21.65	21.98	22.31	22.64
20M	21.33	21.65	22.31	22.97	23.30	23.62	23.95	24.28
25M	24.28	24.94	25.26	25.92	26.25	26.90	27.23	27.56
30M	24.94	26.25	27.56	28.54	28.87	29.53	29.86	30.19
35M	25.59	26.90	28.22	29.53	30.84	32.15	33.47	33.79

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10M	22.97	24.28	25.26	25.92	26.58	27.23	27.56	28.22
15M	23.62	24.94	26.25	27.23	27.89	28.54	28.87	29.53
20M	23.95	25.26	26.58	27.89	29.20	29.53	30.19	30.84
25M	24.61	25.92	27.23	27.89	29.86	31.17	32.81	33.14
30M	25.26	26.58	27.89	29.20	30.51	31.83	33.14	34.12
35M	26.25	27.56	28.87	30.19	31.50	32.81	34.12	35.43

TABLE NOTES:

- Values are based on normal concrete density = 145 pcf and concrete yield strength = 4,350 psi.
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