


	Building Type: Residential		Span Tables 					
	SIDL: 21 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	21.82	22.15	22.47	22.80	22.97	23.30	22.97	24.28
15M	24.44	24.77	25.10	25.43	25.76	25.92	26.08	26.41
20M	26.74	27.07	27.40	27.72	28.05	28.38	28.71	28.87
25M	30.68	31.17	31.33	31.83	31.99	32.32	32.65	32.97
30M	32.15	33.14	35.27	35.43	35.76	36.09	36.42	36.58
35M	33.47	35.11	36.75	38.06	39.21	39.70	39.54	40.52

	Building Type: Residential		Span Tables 					
	SIDL: 21 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	23.46	23.79	24.12	24.44	24.77	24.94	25.43	25.76
15M	26.08	26.25	26.74	27.07	27.23	27.40	27.89	28.05
20M	27.89	28.54	28.71	29.04	29.36	29.69	30.02	30.19
25M	31.66	32.32	32.65	32.97	33.30	33.96	34.29	34.61
30M	33.30	34.94	35.93	36.75	37.24	37.40	37.90	38.06
35M	33.47	35.11	36.75	38.39	39.54	40.52	40.85	41.01



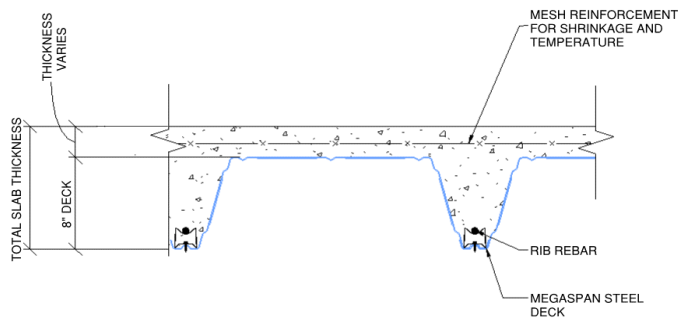


	Building Type: Residential		Span Tables 					
	SIDL: 21 psf		Limit State Design					
	LL: 40 psf		Imperial					
	16 Ga. Steel deck thickness							
Maximum allowable single span in feet (ft.)								
Rib Rebar	Total slab thickness (in.)							
	10.5	11	11.5	12	12.5	13	13.5	14
10M	29.86	31.66	32.32	32.97	33.63	33.96	34.45	34.94
15M	30.51	32.15	33.96	34.61	35.27	35.93	36.26	36.58
20M	31.17	32.81	34.45	36.26	36.58	37.24	37.73	38.39
25M	32.15	33.79	35.43	37.08	38.72	39.70	40.19	3.61
30M	32.81	34.45	36.09	38.06	39.37	41.01	41.34	41.83
35M	33.79	35.76	37.40	39.04	40.03	41.83	42.00	45.28



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 Megaspans tables for more loading combinations or contact us at contact@cpt-group.ca for specific load requirements.

TYPICAL MEGASPAN SYSTEM



 COMPOSITE FLOORING SYSTEM	Building Type: Commercial		Span Tables 					
	SIDL: 21 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	16.41	17.06	17.23	18.05	18.37	18.70	19.03	19.19
15M	18.54	19.19	19.85	20.01	20.34	20.67	21.16	21.33
20M	20.51	21.00	21.33	21.98	22.31	22.64	22.97	23.30
25M	23.62	24.28	24.61	25.26	25.59	25.92	26.25	26.58
30M	24.94	26.25	27.56	27.89	28.38	28.87	29.20	29.53
35M	25.92	27.23	28.54	29.69	30.84	32.32	32.81	33.63

 COMPOSITE FLOORING SYSTEM	Building Type: Commercial		Span Tables 					
	SIDL: 21 psf		Limit State Design					
	LL: 100 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	17.78	18.37	18.87	19.19	19.69	20.01	20.15	20.67
15M	19.69	20.34	20.51	21.16	21.65	22.15	22.31	22.64
20M	21.33	21.98	22.44	22.97	23.30	23.79	24.05	24.61
25M	24.28	24.94	25.76	25.92	26.58	26.90	27.23	27.72
30M	25.72	26.25	27.56	28.54	29.20	29.69	29.86	30.51
35M	25.93	27.23	28.54	29.86	31.17	32.32	33.47	33.96



 COMPOSITE FLOORING SYSTEM	Building Type: Commercial		Span Tables 					
	SIDL: 21 psf		Limit State Design					
	LL: 100 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	23.30	24.61	25.26	25.92	26.58	27.23	27.89	28.38
15M	23.79	24.94	26.25	27.40	28.05	28.71	29.20	29.69
20M	24.12	25.43	26.74	28.05	29.20	29.86	30.51	31.01
25M	25.10	26.08	27.40	28.71	30.02	31.33	32.81	33.30
30M	25.43	26.74	28.05	29.36	30.68	31.99	33.30	34.61
35M	26.25	27.72	29.04	30.35	31.66	32.97	34.29	35.60

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.
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TYPICAL MEGASPAN SYSTEM

