MegaSPAN
COMPOSITE FLOORING SYSTEM

20 Ga. Steel deck thickness

Design Data
Limit State Design
Metric

10M Nominal Rebar Size

Total slab thickness (mm)	267	279	292	305	318	330	343	356
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.61	2.89	3.20	3.50	3.81	4.09	4.40	4.70

15M Nominal Rebar Size

Total slab thickness (mm)	267	279	292	305	318	330	343	356
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.62	2.90	3.21	3.51	3.82	4.10	4.41	4.71

20M Nominal Rebar Size

Total slab thickness (mm)	267	279	292	305	318	330	343	356
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.63	2.91	3.22	3.53	3.83	4.12	4.42	4.73

25M Nominal Rebar Size

Total slab thickness (mm)	267	279	292	305	318	330	343	356
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.66	2.94	3.25	3.55	3.86	4.14	4.45	4.75

30M Nominal Rebar Size

Total slab thickness (mm)	267	279	292	305	318	330	343	356
Concrete volume ($m^3/10\ m^2$)	1.04	1.16	1.29	1.42	1.55	1.67	1.80	1.93
Total slab weight (kPa)	2.66	2.94	3.25	3.55	3.86	4.14	4.45	4.75

35M Nominal Rebar Size

Total slab thickness (mm)	267	279	292	305	318	330	343	356
Concrete volume ($m^3/10\ m^2$)	1.04	1.16	1.29	1.42	1.55	1.67	1.80	1.93
Total slab weight (kPa)	2.70	2.98	3.29	3.59	3.90	4.18	4.49	4.79

TABLE NOTES:

1. "Total Slab Weight" in the above tables includes steel deck, reinforcement bar, and concrete on deck. It does not include the reinforcing bar and concrete located on bearing elements such as walls or beams.

2. Values are based on Normal Concrete Density = 2400 kg/m^3.

MegaSPAN COMPOSITE FLOORING SYSTEM	18 Ga. Steel deck thickness					Design Data Limit State Design Metric		
	10M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.63	2.91	3.22	3.52	3.83	4.11	4.42	4.72

	15M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.64	2.92	3.23	3.53	3.84	4.12	4.43	4.73

	20M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.65	2.93	3.24	3.55	3.85	4.14	4.44	4.75

	25M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.68	2.96	3.27	3.57	3.88	4.16	4.47	4.77

	30M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.04	1.16	1.29	1.42	1.55	1.67	1.80	1.93
Total slab weight (kPa)	2.68	2.96	3.27	3.57	3.88	4.16	4.47	4.77

	35M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.04	1.16	1.29	1.42	1.55	1.67	1.80	1.93
Total slab weight (kPa)	2.72	3.00	3.31	3.61	3.92	4.20	4.51	4.81

TABLE NOTES:

1. "Total Slab Weight" in the above tables includes steel deck, reinforcement bar, and concrete on deck. It does not include the reinforcing bar and concrete located on bearing elements such as walls or beams.

2. Values are based on Normal Concrete Density = 2400 kg/m^3.

MegaSPAN COMPOSITE FLOORING SYSTEM	16 Ga. Steel deck thickness					Design Data Limit State Design Metric		
	10M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.66	2.94	3.25	3.56	3.86	4.14	4.45	4.76

	15M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.67	2.96	3.26	3.57	3.87	4.16	4.46	4.77

	20M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.69	2.97	3.27	3.58	3.89	4.17	4.48	4.78

	25M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.05	1.17	1.30	1.43	1.56	1.68	1.81	1.94
Total slab weight (kPa)	2.71	2.99	3.30	3.61	3.91	4.19	4.50	4.81

	30M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.04	1.16	1.29	1.42	1.55	1.67	1.80	1.93
Total slab weight (kPa)	2.71	3.00	3.30	3.61	3.91	4.20	4.50	4.81

	35M Nominal Rebar Size							
Total slab thickness (mm)	**267**	**279**	**292**	**305**	**318**	**330**	**343**	**356**
Concrete volume ($m^3/10\ m^2$)	1.04	1.16	1.29	1.42	1.55	1.67	1.80	1.93
Total slab weight (kPa)	2.75	3.03	3.34	3.65	3.95	4.23	4.54	4.85

TABLE NOTES:

1. "Total Slab Weight" in the above tables includes steel deck, reinforcement bar, and concrete on deck. It does not include the reinforcing bar and concrete located on bearing elements such as walls or beams.

2. Values are based on Normal Concrete Density = 2400 kg/m^3.