

# Load Tables

## Chemplate and Fiberplate Load and Deflection Data

\*Note: 1/8" Plate designed for use as covering only; not recommended for load bearing service.

Thickness	Span (inches)	Concentrated Load-Full Panel							Uniform Load-Full Panel						Concentrated Load to Produce Deflection (1% of Span)	
		Maximum Load		Pounds					Maximum Load		Pounds					
		Norm(1)	Firm(2)	100	250	500	750	1000	Norm(1)	Firm(2)	25	50	75	100		150
1/4"	12	229	135	.047	.104	.199	.294	.392	336	208	.010	.014	.022	.029	.043	300 Lbs.
	18	196	117	.079	.181	.351	(3)		99	54	.056	.085	.115	.145	.204	256 Lbs.
	24	181	116	.102	.268	(3)			28	15	.177	.327	.476	(3)		223 Lbs.
	36(5)	84	55	.350	(3)			(3)								103 Lbs.
3/8"	12	515	325	.018			.045							.093	.140	.190
	18	455	288	.028	.077	.158	.239	.320	146	91	.026	.050	.075	.099	.148	584 Lbs.
	24	259	149	.100	.195	.355	(3)		64	40	.075	.150	.225	.300	.449	308 Lbs.
	36(5)	154	98	.178	.467	(3)			28	17	.258	(3)				192 Lbs.
1/2"	12	960	600	(3)	.025			.048	.075	.100	654	410	(3)		.012	.016
	18	853	543	.011	.038	.081	.125	.169	206	125	.025	.041	.057	.074	.106	1184 Lbs.
	24	508	313	.043	.098	.190	.282	.374	118	72	.051	.089	.127	.165	.241	631 Lbs.
	36(5)	260	157	.127	.283	(3)		49	30	.153	.297	.441	(3)		318 Lbs.	
3/4"	12	3965	2469	.003	.007			.013	.019	.024	1944	1215			.0012	.0025
	18	1798	1123	.009	.024	.043	.063	.079	576	360	.002	.011	.018	.025	.039	2140 Lbs.
	24	1412	882	.019	.042	.075	.106	.133	243	152	.031	.054	.075	.093	.131	1700 Lbs.
	36(5)	1108	693	.027	.066	.129	.188	.243	85	53	.078	.134	.187	.231	.321	1440 Lbs.

- (1) Normal load is the load which will produce a L/D of 125 or .375" Maximum.
- (2) Firm is the load which will produce a L/D of 200 or .25" Maximum.
- (3) Deflections less than 0.01" and greater than 0.5" have been omitted and denoted by shaded areas.
- (4) Loads for Short Span Normal and Firm have been limited to allow for shearing effects.
- (5) Clear Span is 2" less than width of grating.

### Plate Weight

1/8" - 1 5/8 Lbs/ft<sup>2</sup>, 1/4" - 3 Lbs/ft<sup>2</sup>, 3/8" - 4 1/4 Lbs/ft<sup>2</sup>, 1/2" - 5 5/8 Lbs/ft<sup>2</sup>, 3/4" - 8 3/8 Lbs/ft<sup>2</sup>