

Safe-T-Perf Load Tables

The following charts are based on a 295mm wide x 48mm deep plank with 12mm returns, Mild Steel (Grade 250). All of the loads are maximum unfavoured live loads, with self-weight included.

GAUGE (mm)	LOAD	SPAN (mm)									
		300	600	900	1200	1500	1800	2100	2400	2700	3000
Stock Crate											
2.0	Qu	11.74	11.74	11.74	7.54	4.75	3.23	2.32	1.72	1.32	1.02
	Du	0.02	0.35	1.78	3.66	5.73	8.30	11.36	14.93	19.03	23.68
	Qc	5.48	2.73	1.80	1.33	1.05	0.86	0.72	0.61	0.52	0.45
	Dc	0.18	0.73	1.65	2.95	4.65	6.77	9.32	12.35	15.87	19.94
3.0	Qu	26.47	26.47	19.85	11.02	6.94	4.72	3.38	2.51	1.92	1.49
	Du	0.03	0.48	1.84	3.28	5.15	7.45	10.20	13.41	17.10	21.28
	Qc	8.02	3.99	2.63	1.95	1.53	1.25	1.05	0.89	0.76	0.66
	Dc	0.16	0.65	1.48	2.65	4.18	6.08	8.38	11.10	14.28	17.94
4.0	Qu	47.10	47.10	24.40	13.55	8.52	5.79	4.15	3.08	2.35	1.83
	Du	0.04	0.69	1.84	3.28	5.14	7.44	10.19	13.39	17.08	21.26
	Qc	9.86	4.90	3.24	2.40	1.89	1.54	1.29	1.09	0.94	0.81
	Dc	0.16	0.65	1.48	2.65	4.17	6.07	8.37	11.10	14.27	17.94
Universal											
2.0	Qu	12.17	12.17	12.17	7.69	4.84	3.30	2.37	1.76	1.35	1.05
	Du	0.02	0.34	1.74	3.52	5.52	7.98	10.92	14.36	18.30	22.77
	Qc	5.59	2.78	1.84	1.36	1.07	0.88	0.73	0.62	0.54	0.46
	Dc	0.17	0.70	1.59	2.84	4.47	6.51	8.96	11.87	15.25	19.15
3.0	Qu	27.44	27.44	19.61	10.89	6.85	4.66	3.34	2.48	1.89	1.47
	Du	0.03	0.52	1.89	3.37	5.28	7.64	10.47	13.76	17.55	21.84
	Qc	7.92	3.94	2.60	1.93	1.52	1.24	1.03	0.88	0.75	0.65
	Dc	0.17	0.67	1.52	2.72	4.29	6.24	8.60	11.40	14.66	18.42
4.0	Qu	48.83	48.83	24.87	13.81	8.69	5.91	4.24	3.15	2.40	1.87
	Du	0.04	0.68	1.77	3.15	4.94	7.15	9.78	12.86	16.40	20.41
	Qc	10.05	5.00	3.30	2.44	1.92	1.57	1.31	1.11	0.96	0.83
	Dc	0.16	0.63	1.42	2.54	4.01	5.83	8.04	10.65	13.69	17.20
Stiletto											
2.0	Qu	10.77	10.77	10.77	7.82	4.92	3.35	2.41	1.79	1.37	1.07
	Du	0.02	0.29	1.47	3.41	5.34	7.73	10.57	13.89	17.71	22.03
	Qc	5.68	2.82	1.87	1.38	1.09	0.89	0.75	0.63	0.55	0.47
	Dc	0.17	0.68	1.54	2.75	4.33	6.30	8.67	11.48	14.75	18.52
3.0	Qu	24.27	24.27	20.05	11.14	7.01	4.77	3.42	2.54	1.94	1.51
	Du	0.03	0.43	1.80	3.21	5.04	7.29	9.98	13.11	16.72	20.81
	Qc	8.10	4.03	2.66	1.97	1.55	1.27	1.06	0.90	0.77	0.67
	Dc	0.16	0.64	1.45	2.59	4.08	5.94	8.19	10.85	13.96	17.53
4.0	Qu	43.20	43.20	25.24	14.02	8.83	6.01	4.30	3.20	2.44	1.90
	Du	0.04	0.57	1.71	3.05	4.79	6.93	9.48	12.47	15.89	19.78
	Qc	10.20	5.07	3.35	2.48	1.95	1.59	1.33	1.13	0.97	0.84
	Dc	0.15	0.61	1.38	2.46	3.88	5.65	7.79	10.32	13.26	16.66

Qu = Unfactored Uniformly distributed Live Load (Kpa)
Du = Deflection (mm), (Due to Qu+Self Weight)
Qc = Unfactored Concentrated Live Load (KN)
Dc = Deflection (mm), (Due to Qc+Self Weight)

Refer AS/NZS 1170.0:2002 for suggested serviceability limits