

This chart is based on the Engineering News Record (ENR) formula for pile bearing capacity and is provided as a convenience only.

Pile bearing (Tons) = $2E/(S + 0.1)/2000$, where **E = Hammer energy (given by the Saximeter formula)**
S = Pile set (inch per blow)

Blow per Minute	Ram Stroke (ft)	Hammer Energy (lb.ft)	Pile Set (Blows per inch)											
			1	2	3	4	5	6	7	8	9	10	11	12
35	11.52	91,453	83	152	211	261	305	343	377	406	433	457	479	499
36	10.88	86,313	78	144	199	247	288	324	355	384	409	432	452	471
37	10.28	81,583	74	136	188	233	272	306	336	363	386	408	427	445
38	9.73	77,222	70	129	178	221	257	290	318	343	366	386	404	421
39	9.22	73,192	67	122	169	209	244	274	301	325	347	366	383	399
40	8.75	69,461	63	116	160	198	232	260	286	309	329	347	364	379
41	8.32	65,999	60	110	152	189	220	247	272	293	313	330	346	360
42	7.91	62,782	57	105	145	179	209	235	259	279	297	314	329	342
43	7.53	59,786	54	100	138	171	199	224	246	266	283	299	313	326
44	7.18	56,993	52	95	132	163	190	214	235	253	270	285	299	311
45	6.85	54,383	49	91	125	155	181	204	224	242	258	272	285	297
46	6.54	51,942	47	87	120	148	173	195	214	231	246	260	272	283
47	6.26	49,655	45	83	115	142	166	186	204	221	235	248	260	271
48	5.99	47,509	43	79	110	136	158	178	196	211	225	238	249	259
49	5.73	45,494	41	76	105	130	152	171	187	202	215	227	238	248
50	5.49	43,598	40	73	101	125	145	163	180	194	207	218	228	238
51	5.27	41,812	38	70	96	119	139	157	172	186	198	209	219	228
52	5.06	40,129	36	67	93	115	134	150	165	178	190	201	210	219

Caution: Driving at more than 20 blows per inch (set of 0.05 inch per blow) is considered practical refusal.

This chart is based on the Engineering News Record (ENR) formula for pile bearing capacity and is provided as a convenience only.

Pile bearing (kN) = $100E/(S + 0.254)/6$, where

E = Hammer energy (given by the Saximeter formula)

S = Pile set (cm per blow)

Blows per Minute	Ram Stroke (m)	Hammer Energy (kJ)	Pile Set (Blows per 2cm)											
			5	6	7	8	9	10	11	12	13	14	15	16
35	3.51	124	3162	3521	3832	4103	4343	4555	4745	4916	5071	5211	5339	5457
36	3.32	117	2985	3323	3617	3873	4099	4299	4479	4640	4786	4919	5039	5150
37	3.13	111	2821	3141	3419	3661	3874	4064	4233	4386	4524	4649	4763	4868
38	2.97	105	2670	2974	3236	3465	3667	3847	4007	4152	4282	4401	4509	4608
39	2.81	99	2531	2818	3067	3284	3476	3646	3798	3935	4059	4171	4274	4368
40	2.67	94	2402	2675	2911	3117	3299	3460	3605	3735	3852	3959	4056	4145
41	2.54	90	2283	2542	2766	2962	3135	3288	3425	3549	3660	3761	3854	3939
42	2.41	85	2171	2418	2631	2818	2982	3128	3258	3376	3482	3578	3666	3747
43	2.30	81	2068	2302	2506	2683	2840	2979	3103	3215	3316	3408	3491	3568
44	2.19	77	1971	2195	2389	2558	2707	2840	2958	3065	3161	3248	3328	3401
45	2.09	74	1881	2095	2279	2441	2583	2710	2823	2924	3016	3100	3176	3246
46	2.00	70	1797	2001	2177	2331	2467	2588	2696	2793	2881	2961	3034	3100
47	1.91	67	1718	1913	2081	2229	2359	2474	2577	2670	2754	2830	2900	2964
48	1.83	64	1643	1830	1991	2133	2257	2367	2466	2555	2635	2708	2775	2836
49	1.75	62	1574	1752	1907	2042	2161	2267	2362	2447	2524	2593	2657	2716
50	1.68	59	1508	1679	1828	1957	2071	2173	2263	2345	2418	2485	2547	2603
51	1.61	57	1447	1611	1753	1877	1987	2084	2171	2249	2320	2384	2442	2496
52	1.54	54	1388	1546	1682	1802	1907	2000	2083	2158	2226	2288	2344	2396

Caution: Driving at more than 8 blows per cm (set of 0.125 cm per blow) is considered practical refusal.