

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	157,503	143	263	363	450	525	591	649	700	746	788	825	859
36	10.88	148,650	135	248	343	425	495	557	612	661	704	743	779	811
37	10.28	140,505	128	234	324	401	468	527	579	624	666	703	736	766
38	9.73	132,994	121	222	307	380	443	499	548	591	630	665	697	725
39	9.22	126,054	115	210	291	360	420	473	519	560	597	630	660	688
40	8.75	119,627	109	199	276	342	399	449	493	532	567	598	627	653
41	8.32	113,665	103	189	262	325	379	426	468	505	538	568	595	620
42	7.91	108,124	98	180	250	309	360	405	445	481	512	541	566	590
43	7.53	102,965	94	172	238	294	343	386	424	458	488	515	539	562
44	7.18	98,154	89	164	227	280	327	368	404	436	465	491	514	535
45	6.85	93,660	85	156	216	268	312	351	386	416	444	468	491	511
46	6.54	89,455	81	149	206	256	298	335	368	398	424	447	469	488
47	6.26	85,517	78	143	197	244	285	321	352	380	405	428	448	466
48	5.99	81,822	74	136	189	234	273	307	337	364	388	409	429	446
49	5.73	78,350	71	131	181	224	261	294	323	348	371	392	410	427
50	5.49	75,085	68	125	173	215	250	282	309	334	356	375	393	410
51	5.27	72,010	65	120	166	206	240	270	297	320	341	360	377	393
52	5.06	69,111	63	115	159	197	230	259	285	307	327	346	362	377

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	214	5446	6064	6599	7067	7479	7845	8173	8467	8733	8975	9196	9398
36	3.32	202	5140	5724	6229	6670	7059	7405	7713	7991	8243	8471	8679	8870
37	3.13	191	4859	5410	5887	6305	6672	6999	7291	7554	7791	8007	8204	8384
38	2.97	180	4599	5121	5573	5968	6316	6625	6901	7150	7375	7579	7765	7936
39	2.81	171	4359	4854	5282	5657	5986	6280	6541	6777	6990	7184	7360	7522
40	2.67	162	4137	4607	5013	5368	5681	5960	6208	6432	6634	6818	6985	7139
41	2.54	154	3931	4377	4763	5101	5398	5663	5899	6111	6304	6478	6637	6783
42	2.41	147	3739	4164	4531	4852	5135	5387	5612	5814	5996	6162	6314	6453
43	2.30	140	3561	3965	4315	4621	4891	5130	5344	5536	5710	5869	6013	6145
44	2.19	133	3395	3780	4114	4405	4662	4890	5094	5278	5444	5595	5732	5858
45	2.09	127	3240	3607	3925	4204	4449	4667	4861	5036	5195	5339	5470	5590
46	2.00	121	3094	3445	3749	4015	4249	4457	4643	4810	4962	5099	5224	5339
47	1.91	116	2958	3294	3584	3838	4062	4261	4439	4599	4743	4875	4995	5104
48	1.83	111	2830	3152	3430	3673	3887	4077	4247	4400	4539	4664	4779	4884
49	1.75	106	2710	3018	3284	3517	3722	3904	4067	4214	4346	4467	4576	4677
50	1.68	102	2597	2892	3148	3371	3567	3742	3898	4038	4165	4281	4386	4482
51	1.61	98	2491	2774	3019	3233	3421	3589	3738	3873	3995	4105	4206	4299
52	1.54	94	2391	2662	2897	3103	3284	3444	3588	3717	3834	3940	4037	4126

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