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PILECO Diesel Hammer D30 Pile Hammer Bearing Chart

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	76,211	69	127	176	218	254	286	314	339	361	381	399	416
36	10.88	71,927	65	120	166	206	240	270	296	320	341	360	377	392
37	10.28	67,986	62	113	157	194	227	255	280	302	322	340	356	371
38	9.73	64,352	59	107	149	184	215	241	265	286	305	322	337	351
39	9.22	60,994	55	102	141	174	203	229	251	271	289	305	319	333
40	8.75	57,884	53	96	134	165	193	217	238	257	274	289	303	316
41	8.32	54,999	50	92	127	157	183	206	226	244	261	275	288	300
42	7.91	52,318	48	87	121	149	174	196	215	233	248	262	274	285
43	7.53	49,822	45	83	115	142	166	187	205	221	236	249	261	272
44	7.18	47,494	43	79	110	136	158	178	196	211	225	237	249	259
45	6.85	45,319	41	76	105	129	151	170	187	201	215	227	237	247
46	6.54	43,285	39	72	100	124	144	162	178	192	205	216	227	236
47	6.26	41,379	38	69	95	118	138	155	170	184	196	207	217	226
48	5.99	39,591	36	66	91	113	132	148	163	176	188	198	207	216
49	5.73	37,911	34	63	87	108	126	142	156	168	180	190	199	207
50	5.49	36,332	33	61	84	104	121	136	150	161	172	182	190	198
51	5.27	34,844	32	58	80	100	116	131	143	155	165	174	183	190
52	5.06	33,441	30	56	77	96	111	125	138	149	158	167	175	182

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



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PILECO Diesel Hammer D30 Pile Hammer Bearing Chart

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	103	2635	2934	3193	3420	3619	3796	3955	4097	4226	4343	4450	4547
36	3.32	98	2487	2770	3014	3227	3416	3583	3732	3867	3988	4099	4200	4292
37	3.13	92	2351	2618	2849	3051	3229	3387	3528	3655	3770	3874	3970	4057
38	2.97	87	2225	2478	2697	2888	3056	3206	3339	3460	3568	3667	3757	3840
39	2.81	83	2109	2349	2556	2737	2897	3038	3165	3279	3382	3476	3561	3640
40	2.67	79	2002	2229	2426	2598	2749	2884	3004	3112	3210	3299	3380	3454
41	2.54	75	1902	2118	2305	2468	2612	2740	2854	2957	3050	3135	3212	3282
42	2.41	71	1809	2015	2193	2348	2485	2607	2715	2813	2901	2982	3055	3122
43	2.30	68	1723	1919	2088	2236	2366	2482	2586	2679	2763	2840	2909	2973
44	2.19	64	1643	1829	1991	2132	2256	2366	2465	2554	2634	2707	2774	2835
45	2.09	62	1568	1745	1899	2034	2153	2258	2352	2437	2514	2583	2647	2705
46	2.00	59	1497	1667	1814	1943	2056	2157	2247	2328	2401	2467	2528	2584
47	1.91	56	1431	1594	1734	1857	1966	2062	2148	2225	2295	2359	2417	2470
48	1.83	54	1370	1525	1660	1777	1881	1973	2055	2129	2196	2257	2312	2363
49	1.75	51	1311	1460	1589	1702	1801	1889	1968	2039	2103	2161	2214	2263
50	1.68	49	1257	1400	1523	1631	1726	1811	1886	1954	2015	2071	2122	2169
51	1.61	47	1205	1342	1461	1564	1655	1736	1809	1874	1933	1986	2035	2080
52	1.54	45	1157	1288	1402	1501	1589	1667	1736	1799	1855	1907	1953	1996

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