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PILECO Diesel Hammer D46 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	116,857	106	195	270	334	390	438	481	519	554	584	612	637
36	10.88	110,289	100	184	255	315	368	414	454	490	522	551	578	602
37	10.28	104,245	95	174	241	298	347	391	429	463	494	521	546	569
38	9.73	98,673	90	164	228	282	329	370	406	439	467	493	517	538
39	9.22	93,524	85	156	216	267	312	351	385	416	443	468	490	510
40	8.75	88,756	81	148	205	254	296	333	365	394	420	444	465	484
41	8.32	84,332	77	141	195	241	281	316	347	375	399	422	442	460
42	7.91	80,221	73	134	185	229	267	301	330	357	380	401	420	438
43	7.53	76,394	69	127	176	218	255	286	315	340	362	382	400	417
44	7.18	72,824	66	121	168	208	243	273	300	324	345	364	381	397
45	6.85	69,489	63	116	160	199	232	261	286	309	329	347	364	379
46	6.54	66,370	60	111	153	190	221	249	273	295	314	332	348	362
47	6.26	63,448	58	106	146	181	211	238	261	282	301	317	332	346
48	5.99	60,706	55	101	140	173	202	228	250	270	288	304	318	331
49	5.73	58,131	53	97	134	166	194	218	239	258	275	291	304	317
50	5.49	55,708	51	93	129	159	186	209	229	248	264	279	292	304
51	5.27	53,427	49	89	123	153	178	200	220	237	253	267	280	291
52	5.06	51,276	47	85	118	147	171	192	211	228	243	256	269	280

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 D46 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	159	4041	4499	4896	5243	5549	5821	6064	6282	6479	6659	6823	6973
36	3.32	150	3814	4247	4621	4949	5237	5494	5723	5929	6115	6285	6439	6581
37	3.13	141	3605	4014	4368	4678	4951	5193	5409	5604	5780	5941	6087	6220
38	2.97	134	3412	3800	4135	4428	4686	4915	5120	5305	5472	5623	5761	5888
39	2.81	127	3234	3601	3919	4197	4442	4659	4853	5028	5186	5330	5461	5581
40	2.67	120	3069	3418	3719	3983	4215	4422	4606	4772	4922	5058	5183	5297
41	2.54	114	2917	3248	3534	3785	4005	4201	4377	4534	4677	4806	4924	5033
42	2.41	109	2774	3089	3362	3600	3810	3997	4163	4313	4449	4572	4685	4788
43	2.30	104	2642	2942	3202	3428	3628	3806	3965	4108	4237	4354	4461	4559
44	2.19	99	2519	2805	3052	3268	3459	3628	3780	3916	4039	4151	4253	4346
45	2.09	94	2404	2676	2912	3119	3301	3462	3607	3737	3854	3961	4058	4147
46	2.00	90	2296	2556	2782	2979	3153	3307	3445	3569	3681	3783	3876	3961
47	1.91	86	2195	2444	2659	2848	3014	3161	3293	3412	3519	3617	3706	3787
48	1.83	82	2100	2338	2545	2725	2884	3025	3151	3265	3367	3461	3546	3624
49	1.75	79	2011	2239	2437	2609	2762	2897	3018	3126	3225	3314	3395	3470
50	1.68	76	1927	2146	2335	2501	2647	2776	2892	2996	3090	3176	3254	3326
51	1.61	73	1848	2058	2240	2398	2538	2663	2774	2874	2964	3046	3121	3189
52	1.54	70	1774	1975	2150	2302	2436	2555	2662	2758	2845	2923	2995	3061

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