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PILECO Diesel Hammer D80 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	203,230	185	339	469	581	677	762	837	903	963	1016	1065	1109
36	10.88	191,806	174	320	443	548	639	719	790	852	909	959	1005	1046
37	10.28	181,296	165	302	418	518	604	680	747	806	859	906	950	989
38	9.73	171,605	156	286	396	490	572	644	707	763	813	858	899	936
39	9.22	162,650	148	271	375	465	542	610	670	723	770	813	852	887
40	8.75	154,358	140	257	356	441	515	579	636	686	731	772	809	842
41	8.32	146,665	133	244	338	419	489	550	604	652	695	733	768	800
42	7.91	139,515	127	233	322	399	465	523	574	620	661	698	731	761
43	7.53	132,858	121	221	307	380	443	498	547	590	629	664	696	725
44	7.18	126,650	115	211	292	362	422	475	522	563	600	633	663	691
45	6.85	120,851	110	201	279	345	403	453	498	537	572	604	633	659
46	6.54	115,426	105	192	266	330	385	433	475	513	547	577	605	630
47	6.26	110,344	100	184	255	315	368	414	454	490	523	552	578	602
48	5.99	105,576	96	176	244	302	352	396	435	469	500	528	553	576
49	5.73	101,097	92	168	233	289	337	379	416	449	479	505	530	551
50	5.49	96,884	88	161	224	277	323	363	399	431	459	484	507	528
51	5.27	92,917	84	155	214	265	310	348	383	413	440	465	487	507
52	5.06	89,176	81	149	206	255	297	334	367	396	422	446	467	486

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 D80 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	276	7027	7825	8515	9119	9651	10123	10545	10925	11269	11581	11865	12126
36	3.32	260	6633	7385	8037	8606	9108	9554	9953	10311	10636	10930	11199	11445
37	3.13	246	6269	6981	7597	8135	8610	9031	9408	9747	10053	10331	10585	10818
38	2.97	233	5934	6608	7191	7700	8150	8548	8905	9226	9516	9779	10020	10240
39	2.81	221	5625	6263	6816	7299	7724	8103	8441	8745	9020	9269	9497	9706
40	2.67	209	5338	5944	6468	6927	7331	7690	8011	8299	8560	8797	9013	9211
41	2.54	199	5072	5648	6146	6582	6966	7307	7612	7886	8134	8359	8564	8753
42	2.41	189	4825	5373	5847	6261	6626	6951	7241	7501	7737	7952	8147	8326
43	2.30	180	4595	5117	5568	5963	6310	6619	6895	7144	7368	7572	7759	7929
44	2.19	172	4380	4878	5308	5684	6016	6310	6573	6810	7024	7219	7396	7559
45	2.09	164	4180	4654	5065	5424	5740	6021	6273	6499	6703	6888	7058	7213
46	2.00	157	3992	4446	4838	5181	5483	5751	5991	6207	6402	6579	6741	6889
47	1.91	150	3817	4250	4625	4953	5242	5498	5728	5934	6120	6290	6445	6586
48	1.83	143	3652	4067	4425	4739	5015	5261	5480	5678	5856	6018	6166	6302
49	1.75	137	3497	3894	4238	4538	4803	5038	5248	5437	5608	5763	5905	6035
50	1.68	132	3352	3732	4061	4349	4603	4828	5029	5211	5374	5523	5659	5783
51	1.61	126	3214	3579	3895	4171	4414	4631	4824	4997	5155	5297	5428	5547
52	1.54	121	3085	3435	3738	4003	4237	4444	4630	4796	4947	5084	5209	5324

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