



PILECO, INC.
 P.O.Box 16099 Houston, TX 77222
 Tel: 713-691-3000 800-474-5326
 Fax: 713-691-0089 e-mail: pileco@pileco.com
 Web: www.pileco.com

PILECO Diesel Hammer D125 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	317,547	289	529	733	907	1058	1191	1308	1411	1504	1588	1663	1732
36	10.88	299,697	272	499	692	856	999	1124	1234	1332	1420	1498	1570	1635
37	10.28	283,276	258	472	654	809	944	1062	1166	1259	1342	1416	1484	1545
38	9.73	268,133	244	447	619	766	894	1005	1104	1192	1270	1341	1405	1463
39	9.22	254,140	231	424	586	726	847	953	1046	1130	1204	1271	1331	1386
40	8.75	241,184	219	402	557	689	804	904	993	1072	1142	1206	1263	1316
41	8.32	229,164	208	382	529	655	764	859	944	1019	1086	1146	1200	1250
42	7.91	217,992	198	363	503	623	727	817	898	969	1033	1090	1142	1189
43	7.53	207,591	189	346	479	593	692	778	855	923	983	1038	1087	1132
44	7.18	197,891	180	330	457	565	660	742	815	880	937	989	1037	1079
45	6.85	188,830	172	315	436	540	629	708	778	839	894	944	989	1030
46	6.54	180,354	164	301	416	515	601	676	743	802	854	902	945	984
47	6.26	172,413	157	287	398	493	575	647	710	766	817	862	903	940
48	5.99	164,963	150	275	381	471	550	619	679	733	781	825	864	900
49	5.73	157,964	144	263	365	451	527	592	650	702	748	790	827	862
50	5.49	151,382	138	252	349	433	505	568	623	673	717	757	793	826
51	5.27	145,182	132	242	335	415	484	544	598	645	688	726	760	792
52	5.06	139,337	127	232	322	398	464	523	574	619	660	697	730	760

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 D125 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	431	10980	12227	13305	14248	15079	15817	16477	17071	17607	18095	18540	18947
36	3.32	407	10363	11540	12558	13448	14232	14929	15551	16112	16618	17078	17498	17883
37	3.13	384	9796	10908	11870	12711	13452	14111	14700	15229	15708	16143	16540	16903
38	2.97	364	9272	10325	11236	12032	12734	13357	13914	14415	14869	15280	15656	16000
39	2.81	345	8789	9786	10650	11404	12070	12660	13188	13663	14093	14483	14839	15166
40	2.67	327	8341	9288	10107	10823	11455	12015	12516	12967	13375	13745	14083	14393
41	2.54	311	7925	8825	9604	10284	10884	11417	11893	12321	12709	13061	13382	13676
42	2.41	296	7539	8395	9136	9783	10354	10860	11314	11721	12089	12424	12730	13010
43	2.30	282	7180	7995	8700	9317	9860	10343	10774	11162	11513	11832	12123	12389
44	2.19	269	6844	7621	8294	8881	9400	9860	10271	10641	10975	11279	11557	11811
45	2.09	256	6531	7273	7914	8475	8969	9408	9801	10154	10473	10763	11028	11270
46	2.00	245	6238	6946	7559	8095	8567	8986	9361	9698	10003	10280	10533	10765
47	1.91	234	5964	6641	7227	7739	8190	8591	8949	9272	9563	9828	10070	10291
48	1.83	224	5706	6354	6915	7405	7837	8220	8563	8871	9150	9404	9635	9847
49	1.75	214	5464	6085	6622	7091	7504	7872	8200	8495	8762	9005	9226	9429
50	1.68	205	5237	5831	6346	6795	7192	7544	7859	8142	8398	8630	8842	9037
51	1.61	197	5023	5593	6086	6517	6898	7235	7537	7809	8054	8277	8480	8667
52	1.54	189	4821	5368	5841	6255	6620	6944	7234	7494	7730	7944	8139	8318

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