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PILECO Diesel Hammer D100 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	254,037	231	423	586	726	847	953	1046	1129	1203	1270	1331	1386
36	10.88	239,758	218	400	553	685	799	899	987	1066	1136	1199	1256	1308
37	10.28	226,620	206	378	523	647	755	850	933	1007	1073	1133	1187	1236
38	9.73	214,507	195	358	495	613	715	804	883	953	1016	1073	1124	1170
39	9.22	203,312	185	339	469	581	678	762	837	904	963	1017	1065	1109
40	8.75	192,947	175	322	445	551	643	724	794	858	914	965	1011	1052
41	8.32	183,331	167	306	423	524	611	687	755	815	868	917	960	1000
42	7.91	174,394	159	291	402	498	581	654	718	775	826	872	913	951
43	7.53	166,073	151	277	383	474	554	623	684	738	787	830	870	906
44	7.18	158,313	144	264	365	452	528	594	652	704	750	792	829	864
45	6.85	151,064	137	252	349	432	504	566	622	671	716	755	791	824
46	6.54	144,283	131	240	333	412	481	541	594	641	683	721	756	787
47	6.26	137,930	125	230	318	394	460	517	568	613	653	690	722	752
48	5.99	131,970	120	220	305	377	440	495	543	587	625	660	691	720
49	5.73	126,372	115	211	292	361	421	474	520	562	599	632	662	689
50	5.49	121,105	110	202	279	346	404	454	499	538	574	606	634	661
51	5.27	116,146	106	194	268	332	387	436	478	516	550	581	608	634
52	5.06	111,470	101	186	257	318	372	418	459	495	528	557	584	608

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 D100 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	345	8784	9781	10644	11399	12063	12654	13182	13657	14086	14476	14832	15158
36	3.32	325	8291	9232	10046	10758	11386	11943	12441	12889	13294	13663	13998	14306
37	3.13	308	7837	8726	9496	10169	10762	11289	11760	12183	12566	12914	13232	13523
38	2.97	291	7418	8260	8989	9626	10187	10686	11131	11532	11895	12224	12525	12800
39	2.81	276	7031	7829	8520	9123	9656	10128	10551	10931	11274	11587	11871	12133
40	2.67	262	6673	7430	8086	8659	9164	9612	10013	10374	10700	10996	11267	11514
41	2.54	249	6340	7060	7683	8227	8707	9133	9514	9857	10167	10448	10705	10941
42	2.41	237	6031	6716	7309	7826	8283	8688	9051	9377	9672	9939	10184	10408
43	2.30	225	5744	6396	6960	7453	7888	8274	8619	8930	9210	9465	9698	9911
44	2.19	215	5476	6097	6635	7105	7520	7888	8217	8513	8780	9023	9245	9449
45	2.09	205	5225	5818	6331	6780	7176	7527	7841	8123	8379	8611	8822	9016
46	2.00	196	4991	5557	6047	6476	6854	7189	7489	7759	8003	8224	8427	8612
47	1.91	187	4771	5313	5781	6191	6552	6873	7160	7417	7651	7862	8056	8233
48	1.83	179	4565	5083	5532	5924	6269	6576	6850	7097	7320	7523	7708	7877
49	1.75	172	4372	4868	5297	5673	6003	6297	6560	6796	7010	7204	7381	7543
50	1.68	164	4190	4665	5077	5436	5753	6035	6287	6513	6718	6904	7074	7229
51	1.61	158	4018	4474	4869	5214	5518	5788	6030	6247	6443	6622	6784	6934
52	1.54	151	3856	4294	4673	5004	5296	5555	5787	5996	6184	6355	6511	6655

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