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## PILECO Diesel Hammer D180 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	620	15812	17606	19160	20517	21714	22777	23727	24582	25355	26057	26697	27284
36	3.32	586	14923	16617	18083	19365	20494	21497	22394	23201	23930	24593	25197	25751
37	3.13	554	14106	15707	17093	18304	19372	20320	21167	21930	22619	23246	23817	24341
38	2.97	524	13352	14868	16179	17326	18337	19234	20037	20758	21411	22004	22545	23040
39	2.81	497	12656	14092	15336	16422	17380	18231	18991	19675	20294	20856	21369	21839
40	2.67	471	12011	13374	14554	15585	16495	17302	18024	18673	19260	19793	20280	20726
41	2.54	448	11413	12708	13829	14809	15673	16440	17126	17743	18300	18807	19270	19693
42	2.41	426	10856	12089	13155	14088	14909	15639	16292	16878	17409	17891	18331	18734
43	2.30	406	10339	11512	12528	13416	14198	14893	15515	16073	16579	17038	17457	17841
44	2.19	387	9856	10975	11943	12789	13535	14198	14790	15323	15805	16242	16642	17007
45	2.09	369	9405	10473	11397	12204	12916	13548	14113	14622	15081	15499	15880	16229
46	2.00	352	8983	10003	10885	11657	12337	12940	13480	13966	14405	14804	15168	15501
47	1.91	337	8588	9563	10406	11144	11794	12371	12887	13351	13771	14152	14500	14819
48	1.83	322	8217	9150	9957	10663	11285	11837	12331	12775	13176	13541	13874	14179
49	1.75	309	7869	8762	9535	10211	10806	11335	11808	12233	12618	12967	13286	13578
50	1.68	296	7541	8397	9138	9785	10356	10863	11316	11724	12092	12427	12733	13013
51	1.61	284	7233	8053	8764	9385	9933	10419	10853	11244	11598	11919	12212	12480
52	1.54	272	6942	7730	8412	9008	9533	10000	10417	10792	11131	11439	11721	11978

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