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## PILECO Diesel Hammer D19 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	46,235	42	77	107	132	154	173	190	205	219	231	242	252
36	10.88	43,636	40	73	101	125	145	164	180	194	207	218	229	238
37	10.28	41,245	37	69	95	118	137	155	170	183	195	206	216	225
38	9.73	39,040	35	65	90	112	130	146	161	174	185	195	204	213
39	9.22	37,003	34	62	85	106	123	139	152	164	175	185	194	202
40	8.75	35,116	32	59	81	100	117	132	145	156	166	176	184	192
41	8.32	33,366	30	56	77	95	111	125	137	148	158	167	175	182
42	7.91	31,740	29	53	73	91	106	119	131	141	150	159	166	173
43	7.53	30,225	27	50	70	86	101	113	124	134	143	151	158	165
44	7.18	28,813	26	48	66	82	96	108	119	128	136	144	151	157
45	6.85	27,494	25	46	63	79	92	103	113	122	130	137	144	150
46	6.54	26,260	24	44	61	75	88	98	108	117	124	131	138	143
47	6.26	25,103	23	42	58	72	84	94	103	112	119	126	131	137
48	5.99	24,019	22	40	55	69	80	90	99	107	114	120	126	131
49	5.73	23,000	21	38	53	66	77	86	95	102	109	115	120	125
50	5.49	22,041	20	37	51	63	73	83	91	98	104	110	115	120
51	5.27	21,139	19	35	49	60	70	79	87	94	100	106	111	115
52	5.06	20,287	18	34	47	58	68	76	84	90	96	101	106	111

**Caution:** Driving at more than 20 blows per inch (set of 0.05 inch per blow) is considered practical refusal.