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PILECO Diesel Hammer D46 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	116,857	106	195	270	334	390	438	481	519	554	584	612	637
36	10.88	110,289	100	184	255	315	368	414	454	490	522	551	578	602
37	10.28	104,245	95	174	241	298	347	391	429	463	494	521	546	569
38	9.73	98,673	90	164	228	282	329	370	406	439	467	493	517	538
39	9.22	93,524	85	156	216	267	312	351	385	416	443	468	490	510
40	8.75	88,756	81	148	205	254	296	333	365	394	420	444	465	484
41	8.32	84,332	77	141	195	241	281	316	347	375	399	422	442	460
42	7.91	80,221	73	134	185	229	267	301	330	357	380	401	420	438
43	7.53	76,394	69	127	176	218	255	286	315	340	362	382	400	417
44	7.18	72,824	66	121	168	208	243	273	300	324	345	364	381	397
45	6.85	69,489	63	116	160	199	232	261	286	309	329	347	364	379
46	6.54	66,370	60	111	153	190	221	249	273	295	314	332	348	362
47	6.26	63,448	58	106	146	181	211	238	261	282	301	317	332	346
48	5.99	60,706	55	101	140	173	202	228	250	270	288	304	318	331
49	5.73	58,131	53	97	134	166	194	218	239	258	275	291	304	317
50	5.49	55,708	51	93	129	159	186	209	229	248	264	279	292	304
51	5.27	53,427	49	89	123	153	178	200	220	237	253	267	280	291
52	5.06	51,276	47	85	118	147	171	192	211	228	243	256	269	280

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