



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 D138 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	350,572	319	584	809	1002	1169	1315	1444	1558	1661	1753	1836	1912
36	10.88	330,866	301	551	764	945	1103	1241	1362	1471	1567	1654	1733	1805
37	10.28	312,736	284	521	722	894	1042	1173	1288	1390	1481	1564	1638	1706
38	9.73	296,019	269	493	683	846	987	1110	1219	1316	1402	1480	1551	1615
39	9.22	280,571	255	468	647	802	935	1052	1155	1247	1329	1403	1470	1530
40	8.75	266,267	242	444	614	761	888	999	1096	1183	1261	1331	1395	1452
41	8.32	252,997	230	422	584	723	843	949	1042	1124	1198	1265	1325	1380
42	7.91	240,664	219	401	555	688	802	902	991	1070	1140	1203	1261	1313
43	7.53	229,181	208	382	529	655	764	859	944	1019	1086	1146	1200	1250
44	7.18	218,472	199	364	504	624	728	819	900	971	1035	1092	1144	1192
45	6.85	208,468	190	347	481	596	695	782	858	927	987	1042	1092	1137
46	6.54	199,111	181	332	459	569	664	747	820	885	943	996	1043	1086
47	6.26	190,344	173	317	439	544	634	714	784	846	902	952	997	1038
48	5.99	182,119	166	304	420	520	607	683	750	809	863	911	954	993
49	5.73	174,393	159	291	402	498	581	654	718	775	826	872	913	951
50	5.49	167,125	152	279	386	478	557	627	688	743	792	836	875	912
51	5.27	160,281	146	267	370	458	534	601	660	712	759	801	840	874
52	5.06	153,828	140	256	355	440	513	577	633	684	729	769	806	839

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