



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 D225 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	571,584	520	953	1319	1633	1905	2143	2354	2540	2708	2858	2994	3118
36	10.88	539,455	490	899	1245	1541	1798	2023	2221	2398	2555	2697	2826	2942
37	10.28	509,896	464	850	1177	1457	1700	1912	2100	2266	2415	2549	2671	2781
38	9.73	482,640	439	804	1114	1379	1609	1810	1987	2145	2286	2413	2528	2633
39	9.22	457,453	416	762	1056	1307	1525	1715	1884	2033	2167	2287	2396	2495
40	8.75	434,131	395	724	1002	1240	1447	1628	1788	1929	2056	2171	2274	2368
41	8.32	412,495	375	687	952	1179	1375	1547	1699	1833	1954	2062	2161	2250
42	7.91	392,386	357	654	906	1121	1308	1471	1616	1744	1859	1962	2055	2140
43	7.53	373,664	340	623	862	1068	1246	1401	1539	1661	1770	1868	1957	2038
44	7.18	356,204	324	594	822	1018	1187	1336	1467	1583	1687	1781	1866	1943
45	6.85	339,894	309	566	784	971	1133	1275	1400	1511	1610	1699	1780	1854
46	6.54	324,637	295	541	749	928	1082	1217	1337	1443	1538	1623	1700	1771
47	6.26	310,343	282	517	716	887	1034	1164	1278	1379	1470	1552	1626	1693
48	5.99	296,933	270	495	685	848	990	1113	1223	1320	1407	1485	1555	1620
49	5.73	284,336	258	474	656	812	948	1066	1171	1264	1347	1422	1489	1551
50	5.49	272,487	248	454	629	779	908	1022	1122	1211	1291	1362	1427	1486
51	5.27	261,328	238	436	603	747	871	980	1076	1161	1238	1307	1369	1425
52	5.06	250,807	228	418	579	717	836	941	1033	1115	1188	1254	1314	1368

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



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 D225 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	776	19764	22008	23950	25647	27143	28471	29659	30727	31693	32571	33372	34105
36	3.32	732	18654	20771	22604	24206	25618	26871	27993	29001	29912	30741	31497	32189
37	3.13	692	17632	19634	21366	22880	24214	25400	26459	27412	28274	29057	29771	30426
38	2.97	655	16690	18585	20224	21657	22921	24043	25046	25948	26763	27504	28181	28800
39	2.81	621	15820	17615	19169	20528	21725	22789	23739	24594	25367	26070	26711	27298
40	2.67	589	15013	16718	18193	19482	20618	21627	22530	23341	24075	24741	25350	25907
41	2.54	560	14266	15885	17286	18511	19591	20550	21407	22178	22876	23509	24087	24617
42	2.41	533	13571	15111	16444	17609	18637	19549	20364	21098	21761	22364	22914	23417
43	2.30	507	12923	14390	15660	16770	17748	18617	19393	20092	20723	21297	21821	22301
44	2.19	483	12320	13718	14929	15987	16919	17747	18488	19154	19756	20303	20802	21259
45	2.09	461	11756	13091	14246	15255	16145	16935	17642	18277	18852	19374	19850	20287
46	2.00	441	11229	12503	13607	14571	15421	16176	16850	17457	18006	18505	18960	19377
47	1.91	421	10735	11953	13008	13930	14742	15464	16109	16689	17214	17690	18125	18524
48	1.83	403	10271	11437	12446	13328	14106	14796	15413	15969	16471	16927	17343	17724
49	1.75	386	9836	10952	11919	12763	13508	14169	14760	15292	15772	16209	16608	16973
50	1.68	370	9426	10496	11422	12232	12945	13579	14145	14655	15116	15534	15916	16266
51	1.61	355	9041	10067	10955	11731	12416	13023	13567	14055	14497	14899	15265	15601
52	1.54	340	8677	9662	10514	11259	11916	12499	13021	13490	13914	14299	14651	14973

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