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## PILECO Diesel Hammer D12 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	44	1124	1252	1362	1459	1544	1620	1687	1748	1803	1853	1898	1940
36	3.32	42	1061	1182	1286	1377	1457	1529	1592	1650	1702	1749	1792	1831
37	3.13	39	1003	1117	1215	1302	1378	1445	1505	1559	1608	1653	1694	1731
38	2.97	37	949	1057	1151	1232	1304	1368	1425	1476	1523	1565	1603	1638
39	2.81	35	900	1002	1091	1168	1236	1296	1350	1399	1443	1483	1520	1553
40	2.67	34	854	951	1035	1108	1173	1230	1282	1328	1370	1408	1442	1474
41	2.54	32	812	904	983	1053	1115	1169	1218	1262	1301	1337	1370	1400
42	2.41	30	772	860	935	1002	1060	1112	1159	1200	1238	1272	1304	1332
43	2.30	29	735	819	891	954	1010	1059	1103	1143	1179	1212	1241	1269
44	2.19	28	701	780	849	909	963	1010	1052	1090	1124	1155	1183	1209
45	2.09	26	669	745	810	868	918	963	1004	1040	1072	1102	1129	1154
46	2.00	25	639	711	774	829	877	920	959	993	1024	1053	1079	1102
47	1.91	24	611	680	740	792	839	880	916	949	979	1006	1031	1054
48	1.83	23	584	651	708	758	802	842	877	908	937	963	987	1008
49	1.75	22	560	623	678	726	768	806	840	870	897	922	945	966
50	1.68	21	536	597	650	696	736	772	805	834	860	884	905	925
51	1.61	20	514	573	623	667	706	741	772	800	825	848	868	887
52	1.54	19	494	550	598	641	678	711	741	767	792	813	833	852

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