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PILECO Diesel Hammer D6 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	15,242	14	25	35	44	51	57	63	68	72	76	80	83
36	10.88	14,385	13	24	33	41	48	54	59	64	68	72	75	78
37	10.28	13,597	12	23	31	39	45	51	56	60	64	68	71	74
38	9.73	12,870	12	21	30	37	43	48	53	57	61	64	67	70
39	9.22	12,199	11	20	28	35	41	46	50	54	58	61	64	67
40	8.75	11,577	11	19	27	33	39	43	48	51	55	58	61	63
41	8.32	11,000	10	18	25	31	37	41	45	49	52	55	58	60
42	7.91	10,464	10	17	24	30	35	39	43	47	50	52	55	57
43	7.53	9,964	9	17	23	28	33	37	41	44	47	50	52	54
44	7.18	9,499	9	16	22	27	32	36	39	42	45	47	50	52
45	6.85	9,064	8	15	21	26	30	34	37	40	43	45	47	49
46	6.54	8,657	8	14	20	25	29	32	36	38	41	43	45	47
47	6.26	8,276	8	14	19	24	28	31	34	37	39	41	43	45
48	5.99	7,918	7	13	18	23	26	30	33	35	38	40	41	43
49	5.73	7,582	7	13	17	22	25	28	31	34	36	38	40	41
50	5.49	7,266	7	12	17	21	24	27	30	32	34	36	38	40
51	5.27	6,969	6	12	16	20	23	26	29	31	33	35	37	38
52	5.06	6,688	6	11	15	19	22	25	28	30	32	33	35	36

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



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PILECO Diesel Hammer D6 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	21	527	587	639	684	724	759	791	819	845	869	890	909
36	3.32	20	497	554	603	645	683	717	746	773	798	820	840	858
37	3.13	18	470	524	570	610	646	677	706	731	754	775	794	811
38	2.97	17	445	496	539	578	611	641	668	692	714	733	751	768
39	2.81	17	422	470	511	547	579	608	633	656	676	695	712	728
40	2.67	16	400	446	485	520	550	577	601	622	642	660	676	691
41	2.54	15	380	424	461	494	522	548	571	591	610	627	642	656
42	2.41	14	362	403	439	470	497	521	543	563	580	596	611	624
43	2.30	14	345	384	418	447	473	496	517	536	553	568	582	595
44	2.19	13	329	366	398	426	451	473	493	511	527	541	555	567
45	2.09	12	314	349	380	407	431	452	470	487	503	517	529	541
46	2.00	12	299	333	363	389	411	431	449	466	480	493	506	517
47	1.91	11	286	319	347	371	393	412	430	445	459	472	483	494
48	1.83	11	274	305	332	355	376	395	411	426	439	451	462	473
49	1.75	10	262	292	318	340	360	378	394	408	421	432	443	453
50	1.68	10	251	280	305	326	345	362	377	391	403	414	424	434
51	1.61	9	241	268	292	313	331	347	362	375	387	397	407	416
52	1.54	9	231	258	280	300	318	333	347	360	371	381	391	399

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