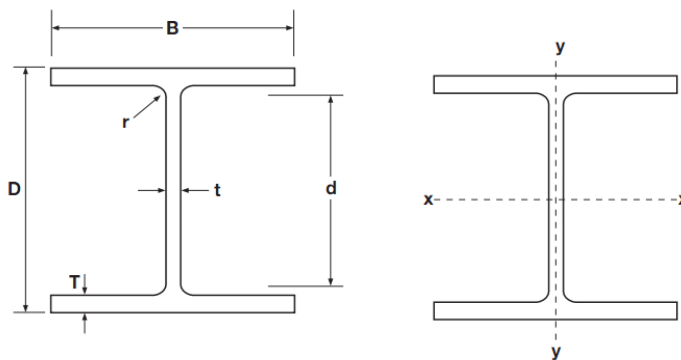


RAINHAM STEEL

Phone: 01708 522311 Fax: 01708 559024 Email: sales@rainhamsteel.co.uk

Bearing Piles

Dimensions and properties to BS4-1:1993



Designation								Ratios for Local Buckling		Second Moment of Area	
Serial Size	Mass per metre kg/m	Depth of Section D mm	Width of Section B mm	Thickness of Web t mm	Thickness of Flange T mm	Root Radius r mm	Depth between fillets d mm	Flange B/2T	Web d/t	Axis x-x cm ⁴	Axis y-y cm ⁴
356x368x174	173.9	361.4	378.5	20.3	20.4	15.2	290.2	9.28	14.3	51010	18460
356x368x152	152.0	356.4	376.0	17.8	17.9	15.2	290.2	10.5	16.3	43970	15880
356x368x133	133.0	352.0	373.8	15.6	15.7	15.2	290.2	11.9	18.6	37980	13680
356x368x109	108.9	346.4	371.0	12.8	12.9	15.2	290.2	14.4	22.7	30630	10990
305x305x223	222.9	337.9	325.7	30.3	30.4	15.2	246.7	5.36	8.14	52700	17580
305x305x186	186.0	328.3	320.9	25.5	25.6	15.2	246.7	6.27	9.67	42610	14140
305x305x149	149.1	318.5	316.0	20.6	20.7	15.2	246.7	7.63	12.0	33070	10910
305x305x126	126.1	312.3	312.9	17.5	17.6	15.2	246.7	8.89	14.1	27410	9002
305x305x110	110.0	307.9	310.7	15.3	15.4	15.2	246.7	10.1	16.1	23560	7709
305x305x95	94.9	303.7	308.7	13.3	13.3	15.2	246.7	11.6	18.5	20040	6529
305x305x88	88.0	301.7	307.8	12.4	12.3	15.2	246.7	12.5	19.9	18420	5984
305x305x79	78.9	299.3	306.4	11.0	11.1	15.2	246.7	13.8	22.4	16440	5326
254x254x85	85.1	254.3	260.4	14.4	14.3	12.7	200.3	9.10	13.9	12280	4215
254x254x71	71.0	249.7	258.0	12.0	12.0	12.7	200.3	10.8	16.7	10070	3439
254x254x63	63.0	247.1	256.6	10.6	10.7	12.7	200.3	12.0	18.9	8860	3016
203x203x54	53.9	204.0	207.7	11.3	11.4	10.2	160.8	9.11	14.2	5027	1705
203x203x45	44.9	200.2	205.9	9.5	9.5	10.2	160.8	10.8	16.9	4100	1384

Designation		Area of Section cm ²	Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Torsional Constatn J cm ⁴
Serial Size	Mass per meter kg/m		Axis x-x cm	Axis y-y cm	Axis x-x cm ³	Axis y-y cm ³	Axis x-x cm ³	Axis y-y cm ³				
356x368x174	173.9	221	15.2	9.13	2823	976	3186	1497	0.821	15.8	5.37	330
356x368x152	152.0	194	15.1	9.05	2468	845	2767	1293	0.821	17.8	4.55	223
356x368x133	133.0	169	15.0	8.99	2158	732	2406	1118	0.822	20.1	3.87	151
356x368x109	108.9	139	14.9	8.90	1769	592	1956	903	0.823	24.2	3.05	84.6
305x305x223	222.9	284	13.6	7.87	3119	1079	3653	1680	0.826	9.55	4.15	943
305x305x186	186.0	237	13.4	7.73	2596	881	3003	1366	0.827	11.1	3.24	560
305x305x149	149.1	190	13.2	7.58	2076	691	2370	1065	0.828	13.5	2.42	295
305x305x126	126.1	161	13.1	7.49	1755	575	1986	885	0.829	15.7	1.95	182
305x305x110	110.0	140	13.0	7.42	1531	496	1720	762	0.830	17.7	1.65	122
305x305x95	94.9	121	12.9	7.35	1320	423	1475	648	0.830	20.2	1.38	80.0
305x305x88	88.0	112	12.8	7.31	1221	389	1361	595	0.830	21.6	1.25	64.2
305x305x79	78.9	100	12.8	7.28	1099	348	1218	531	0.832	23.9	1.11	46.9
254x254x85	85.1	108	10.6	6.24	966	324	1092	498	0.825	15.6	0.607	81.8
254x254x71	71.0	90.4	10.6	6.17	807	267	904	409	0.826	18.4	0.486	48.4
254x254x63	63.0	80.2	10.5	6.13	717	235	799	360	0.827	20.5	0.421	34.3
203x203x54	53.9	68.7	8.55	4.98	493	164	557	252	0.827	15.8	0.158	32.7
203x203x45	44.9	57.2	8.46	4.92	410	134	459	206	0.827	18.6	0.126	19.2