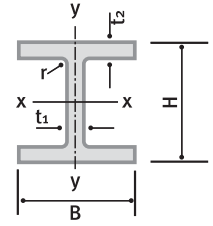


2. H-Bearing Piles H형강 말뚝



Dimensions and Sectional Properties 치수 및 단면성능

(1) Metric Series

KS D 3503, 3515 / KS F 4603

공칭치수 Nominal Size(mm)	표준 단면 치수 Standard Sectional Dimension(mm)				단면적 Sectional Area(cm ²)	단위무게 Unit Weight (kg/m)	단면 2차 모멘트 Moment of Inertia(cm ⁴)		단면 2차 반경 Radius of Gyration(cm)		단면계수 Modulus of Section(cm ³)		표면적 Surface Area (m ² /m)
	H x B	t ₁	t ₂	r			A	W	I _x	I _y	i _x	i _y	
200 x 200	200 x 204	12	12	13	71.53	56.2	4,980	1,700	8.35	4.88	498	167	1.17
250 x 250	244 x 252	11	11	16	82.06	64.4	8,790	2,940	10.3	5.98	720	233	1.45
	250 x 255	14	14	16	104.7	82.2	11,500	3,880	10.5	6.09	919	304	1.46
300 x 300	294 x 302	12	12	18	107.7	84.5	16,900	5,520	12.5	7.16	1,150	365	1.74
	300 x 300	10	15	18	119.8	94.0	20,400	6,750	13.1	7.51	1,360	450	1.75
	300 x 305	15	15	18	134.8	106	21,500	7,100	12.6	7.26	1,440	466	1.76
350 x 350	338 x 351	13	13	20	135.3	106	28,200	9,380	14.4	8.33	1,670	534	2.02
	344 x 354	16	16	20	166.6	131	35,300	1,800	14.6	8.43	2,050	669	2.04
	350 x 350	12	19	20	173.9	137	40,300	13,600	15.2	8.84	2,300	776	2.04
	350 x 357	19	19	20	198.4	156	42,800	14,400	14.7	8.53	2,450	809	2.06
400 x 400	388 x 402	15	15	22	178.5	140	49,000	16,300	16.6	9.54	2,520	809	2.32
	394 x 405	18	18	22	214.4	168	59,700	20,000	16.7	9.65	3,030	985	2.33
	400 x 400	13	21	22	218.7	172	66,600	22,400	17.5	10.1	3,330	1,120	2.34
	400 x 408	21	21	22	250.7	197	70,900	23,800	16.8	9.75	3,540	1,170	2.35
	414 x 405	18	28	22	295.4	232	92,800	31,000	17.1	10.2	4,480	1,530	2.37
	428 x 407	20	35	22	360.7	283	119,000	39,400	18.2	10.4	5,570	1,930	2.41

(2) Inch Series

공칭치수 Nominal Size(inch)	단위무게 Unit Weight		표준 단면 치수 Standard Sectional Dimension(mm)			단면적 Sectional Area(cm ²)	단면 2차 모멘트 Moment of Inertia(cm ⁴)		단면 2차 반경 Radius of Gyration(cm)		단면계수 Modulus of Section(cm ³)		표면적 Surface Area (m ² /m)
	lbs/ft	kg/m	H x B	t ₁	t ₂		A	I _x	I _y	i _x	i _y	S _x	
HP8 8 x 8	36	53.57	203.7 x 207.1	11.30	11.30	68.39	4,950	1,680	8.53	4.95	488	162	1.21
HP10 10 x 10	42	62.50	246.4 x 255.9	10.45	10.67	80.0	8,740	2,980	10.5	6.12	711	233	1.47
	48	71.43	249.9 x 257.5	12.12	12.12	91.1	10,150	3,451	10.6	6.15	813	268	1.48
	57	84.83	253.7 x 259.7	14.35	14.35	108.4	12,200	4,200	10.6	6.22	964	323	1.49
HP12 12 x 12	53	78.87	299.2 x 305.9	11.05	11.05	100.0	16,400	5,290	12.8	7.26	1,090	346	1.77
	59	87.80	301.7 x 307.2	12.32	12.32	111.8	18,400	5,959	12.8	7.30	1,220	388	1.78
	63	93.75	303.3 x 308.0	13.08	13.08	118.7	19,600	6,370	12.9	7.32	1,300	415	1.79
	74	110.1	308.1 x 310.3	15.37	15.49	140.6	23,700	7,740	13.0	7.42	1,540	198	1.80
HP14 14 x 14 ½	73	108	345.7 x 370.5	12.8	12.8	138.1	30,300	10,900	14.8	8.86	1,750	587	2.12
	89	132	351.3 x 373.3	15.6	15.6	168.4	37,600	13,600	14.9	8.97	2,150	726	2.14
	102	152	355.9 x 375.5	17.9	17.9	193.5	43,700	15,800	15.0	9.04	2,460	842	2.15
	117	174	360.9 x 378.1	20.4	20.4	211.9	50,800	18,400	15.1	9.12	2,820	975	2.16