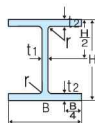


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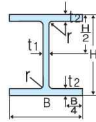
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# H형강 Hot Rolled H-Beams



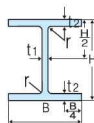
공칭치수 Nominal Size (m/m)	표준 단면 치수 Standard Sectional Dimension (m/m)				단위중량 Unit Weight (kg/m)	단면계수 Modulus of Section (cm <sup>3</sup> )	
	H×B	t <sub>1</sub>	t <sub>2</sub>	r		Z <sub>x</sub>	Z <sub>y</sub>
100×100	100×100	6	8	10	17.2	76.5	26.7
125×125	125×125	6.5	9	10	23.8	136	47.0
150×75	150×75	5	7	8	14.0	88.8	13.2
150×100	148×100	6	9	11	21.1	138	30.1
150×150	150×150	7	10	11	31.5	219	75.1
175×175	175×175	7.5	11	13	40.4	331	112
200×100	198×99	4.5	7	11	18.2	160	23.0
	200×100	5.5	8	11	21.3	184	26.8
200×150	194×150	6	9	13	30.6	277	67.6
200×200	200×200	8	12	13	49.9	472	160
	200×204	12	12	13	56.2	498	167
	208×202	10	16	13	65.7	628	218
250×125	248×124	5	8	12	25.7	285	41.1
	250×125	6	9	12	29.6	324	47.0
250×175	244×175	7	11	16	44.1	502	113
250×250	244×252	11	11	16	64.4	720	233
	248×249	8	13	16	66.5	801	269
	250×250	9	14	16	72.4	867	292
	250×255	14	14	16	82.2	919	304

# H형강 Hot Rolled H-Beams



공칭치수 Nominal Size (m/m)	표준 단면 치수 Standard Sectional Dimension (m/m)				단위중량 Unit Weight (kg/m)	단면계수 Modulus of Section (cm <sup>3</sup> )	
	H × B	t <sub>1</sub>	t <sub>2</sub>	r		Z <sub>x</sub>	Z <sub>y</sub>
300 × 150	298 × 149	5.5	8	13	32.0	424	59.3
	300 × 150	6.5	9	13	36.7	481	67.7
300 × 200	294 × 200	8	12	18	56.8	771	160
	298 × 201	9	14	18	65.4	893	189
300 × 300	294 × 302	12	12	18	84.5	1.150	365
	298 × 299	9	14	18	87.0	1.270	417
	300 × 300	10	15	18	94.0	1.360	450
	300 × 305	15	15	18	106	1.440	466
	304 × 301	11	17	18	106	1.540	514
	310 × 305	15	20	18	130	1.810	620
350 × 175	346 × 174	6	9	14	41.4	641	91
	350 × 175	7	11	14	49.6	775	112
	354 × 176	8	13	14	57.8	909	134
340 × 250	336 × 249	8	12	20	69.2	1.100	248
	340 × 250	9	14	20	79.7	1.280	292
350 × 350	344 × 348	10	16	20	115	1.940	646
	344 × 354	16	16	20	131	2.050	669
	350 × 350	12	19	20	137	2.300	776
	350 × 357	19	19	20	156	2.450	809

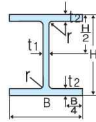
# H형강 Hot Rolled H-Beams



공칭치수 Nominal Size (m/m)	표준 단면 치수 Standard Sectional Dimension (m/m)				단위중량 Unit Weight (kg/m)	단면계수 Modulus of Section (cm <sup>3</sup> )	
	H × B	t <sub>1</sub>	t <sub>2</sub>	r		Z <sub>x</sub>	Z <sub>y</sub>
400×200	396 × 199	7	11	16	56.6	1.010	145
	400 × 200	8	13	16	66.0	1.190	174
	404 × 201	9	15	16	75.5	1.360	202
400×300	386 × 299	9	14	22	94.3	1.740	418
	390 × 300	10	16	22	107	1.980	481
400×400	388 × 402	15	15	22	140	2.520	809
	394 × 398	11	18	22	147	2.850	951
	394 × 405	18	18	22	168	3.030	985
	400 × 400	13	21	22	172	3.330	1.120
	400 × 408	21	21	22	197	3.540	1.170
	406 × 403	16	24	22	200	3.840	1.300
	414 × 405	18	28	22	232	4.480	1.530
	*428 × 407	20	35	22	283	5.570	1.930
	*458 × 417	30	50	22	415	8.170	2.900
	*498 × 432	45	70	22	605	13.000	4.370
450×200	446 × 199	8	12	18	66.2	1.290	159
	450 × 200	9	14	18	76.0	1.490	187
450×300	434 × 299	10	15	24	106	2.160	448
	440 × 300	11	18	24	124	2.550	541

\*일반SIZE아님

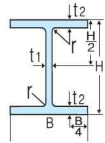
# H형강 Hot Rolled H-Beams



공칭치수 Nominal Size (m/m)	표준 단면 치수 Standard Sectional Dimension (m/m)				단위중량 Unit Weight (kg/m)	단면계수 Modulus of Section (cm <sup>3</sup> )	
	H × B	t <sub>1</sub>	t <sub>2</sub>	r		Z <sub>x</sub>	Z <sub>y</sub>
500×200	496 × 199	9	14	20	79.5	1.690	185
	500 × 200	10	16	20	89.6	1.910	214
	506 × 201	11	19	20	103	2.230	257
500×300	482 × 300	11	15	26	114	2.500	451
	488 × 300	11	18	26	128	2.910	541
600×200	596 × 199	10	15	22	94.6	2.310	199
	600 × 200	11	17	22	106	2.590	228
	606 × 201	12	20	22	120	2.980	271
	612 × 202	13	23	22	134	3.380	314
600×300	582 × 300	12	17	28	137	3.530	511
	588 × 300	12	20	28	151	4.020	601
	594 × 302	14	23	28	175	4.620	701
700×300	692 × 300	13	20	28	166	4.980	602
	700 × 300	13	24	28	185	5.760	722
	708 × 302	15	28	28	215	6.700	853
800×300	792 × 300	14	22	28	191	6.410	662
	800 × 300	14	26	28	210	7.290	782
	808 × 302	16	30	28	241	8.400	915
900×300	*890 × 299	15	23	18	210	7.610	687
	*900 × 300	16	28	18	240	8.990	842
	*912 × 302	18	34	18	283	10.800	1.040
	*918 × 303	19	37	18	304	11.700	1.140

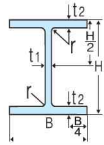
\*일반SIZE아님

## 경량H형강 Welded H-Beams



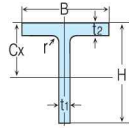
표준 단면 치수 Standard Sectional Dimension (m/m)			단위중량 Unit Weight (kg/m)	단면 적 Section Area (cm <sup>2</sup> )	단면계수 Modulus of Section (cm <sup>3</sup> )	
HXB	t <sub>1</sub>	t <sub>2</sub>	W	A	Z <sub>x</sub>	Z <sub>y</sub>
100×75	3.2	4.5	7.6	9.66	34.8	8.5
100×100	3.2	4.5	9.35	11.91	45.1	15
100×100	6.0	9.0	18.0	22.92	83	30
125×75	3.2	4.5	8.21	10.46	46	8.5
125×100	3.2	4.5	9.98	12.71	59	15
125×125	6.0	9.0	22.7	28.92	131	47
150×75	3.2	4.5	8.84	11.26	57.6	8.45
150×75	5.0	7.0	13.6	17.30	85.6	13.2
150×100	3.2	4.5	10.6	13.51	73.5	15.0
150×100	3.2	6.0	12.9	16.42	92.3	20.0
150×100	6.0	9.0	20.3	25.92	138	30.1
150×150	3.2	6.0	17.6	22.42	134	45.0
150×150	6.0	9.0	27.4	34.92	195	68
175×90	3.2	4.5	10.5	13.41	81.2	12.2
200×100	3.2	4.5	11.9	15.11	105	15
200×100	3.2	6.0	14.1	18.02	131	20
200×150	3.2	4.5	15.4	19.61	148	33.8
200×150	3.2	6.0	18.9	24.02	187	45
200×150	4.5	6.0	20.8	26.46	194	45
200×150	6.0	9.0	29.8	37.92	277	67.6
200×200	6.0	9.0	36.8	46.92	359	120
250×100	3.2	4.5	13.1	16.71	138	15
250×100	4.5	9.0	22.3	28.44	247	30

## 경량H형강 Welded H-Beams



표준 단면 치수 Standard Sectional Dimension (m/m)			단위중량 Unit Weight (kg/m)	단면 적 Section Area (cm <sup>2</sup> )	단면계수 Modulus of Section (cm <sup>3</sup> )	
HXB	t <sub>1</sub>	t <sub>2</sub>			Z <sub>x</sub>	Z <sub>y</sub>
250×125	3.2	4.5	14.9	18.96	166	23.5
250×125	4.5	6.0	20.2	25.71	219	31.3
250×125	4.5	9.0	25.9	32.94	299	46.9
250×150	3.2	4.5	16.7	21.21	193	33.8
250×150	4.5	6.0	22.5	28.71	255	45.0
250×175	6.0	9.0	35.7	45.22	416	92.0
250×250	6.0	9.0	46.3	58.92	573	187.5
300×150	3.2	4.5	17.9	22.81	240	33.8
300×150	4.5	6.0	24.3	30.96	319	45.0
300×150	4.5	9.0	31.2	39.69	437	67.5
300×150	6.0	9.0	34.5	43.92	456	67.6
300×175	4.5	6.0	26.7	33.96	362	61.0
300×175	4.5	9.0	34.7	44.19	501	91.9
300×200	6.0	9.0	41.5	52.92	583	120.0
300×300	6.0	9.0	55.7	70.92	837	270.0
300×175	4.5	6.0	28.4	36.21	438	61.3
350×175	6.0	9.0	40.4	58.42	628	92.0
350×200	6.0	9.0	43.9	55.92	703	120.0
400×200	4.5	9.0	41.8	53.19	793	120.0
400×200	6.0	9.0	46.3	58.92	827	120.0
400×300	6.0	9.0	60.4	76.92	1,172	270.0
450×200	4.5	9.0	43.5	55.44	912	120.0
450×300	6.0	9.0	62.7	79.92	1,346	270.0
450×300	9.0	10.0	77.5	98.70	1,556	300.0

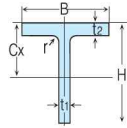
## C.T형강 Cut Tees



공칭 치수 Section index	높이 Depth Of Section (H)	폭 Flange Of Width (B)	두께 Thickness		코너반경 Coner Radius (r)	단면적 Sectional Area	단위중량 Unit Weight
			웨브 t <sub>1</sub>	플랜지 t <sub>2</sub>			
m/m	m/m	m/m	m/m	m/m	m/m	Cm <sup>3</sup>	Kg/m
50×100	50	100	6	8	10	10.95	8.6
62.5×125	62.5	125	6.5	9	10	15.16	11.9
75×75	75	75	5	7	8	8.925	7.01
75×100	75	100	6	9	11	13.42	10.5
75×150	75	150	7	10	11	20.07	15.8
100×100	100	100	5.5	8	11	13.58	10.7
100×150	97	150	6	9	13	19.51	15.3
100×200	100	200	8	12	13	31.77	24.9
	100	204	12	12	13	35.77	28.1
	104	202	10	16	13	41.85	32.8
125×125	124	124	5	8	12	16.34	12.8
	125	125	6	9	12	18.83	12.8
125×175	122	175	7	11	16	28.12	22.1
125×250	122	252	11	11	16	41.03	32.2
	124	249	8	13	16	42.35	33.2
	125	250	9	14	16	46.09	36.2
	125	255	14	14	16	52.34	41.1
150×150	149	149	5.5	8	13	20.4	16
	150	150	6.5	9	13	23.39	18.4
150×200	147	200	8	12	18	36.19	28.4
	149	201	9	14	18	41.68	32.7
150×300	147	302	12	12	18	53.83	42.3
	149	299	9	14	18	55.4	43.5
	150	300	10	15	18	59.89	47
	150	305	15	15	18	67.39	52.9
	152	301	11	17	18	67.41	52.9
175×175	173	174	6	9	14	26.34	20.7
	175	175	7	11	14	31.57	24.8
175×250	168	249	8	12	20	44.08	34.6
	170	250	9	14	20	50.76	39.8
175×350	172	348	10	16	20	73	57.3
	172	354	16	16	20	83.32	65.4
	175	350	12	19	20	86.94	68.2
	175	357	19	19	20	99.19	77.9
	169	351	13	13	20	67.63	53.1

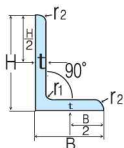


## C.T형강 Cut Tees



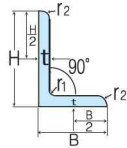
공칭 치수 Section index	높이 Depth Of Section (H)	폭 Flange Of Width (B)	두께 Thickness		코너반경 Coner Radius (r)	단면적 Sectional Area	단위중량 Unit Weight
			웨브 t <sub>1</sub>	플랜지 t <sub>2</sub>			
m/m	m/m	m/m	m/m	m/m	m/m	Cm <sup>3</sup>	Kg/m
200×200	198	199	7	11	16	36.08	28.3
	200	200	8	13	16	42.06	33
200×300	193	299	9	14	22	60.05	47.1
	195	300	10	16	22	67.98	53.4
200×400	249	432	45	70	22	385	302
	229	417	30	50	22	264.3	207
	214	407	20	35	22	180.3	142
	207	405	18	28	22	147.7	116
	203	403	16	24	22	127.4	100
	200	408	21	21	22	125.3	98.4
	200	400	13	21	22	109.3	85.8
	197	405	18	18	22	107.2	84.1
	197	398	11	18	22	93.41	73.3
	194	402	15	15	22	89.23	70
225×200	223	198	8	12	18	42.15	33.1
	225	200	9	14	18	43.38	38
225×300	217	299	10	15	24	67.52	53
	220	300	11	18	24	78.69	61.8
250×200	248	199	9	14	20	50.64	39.7
	250	200	10	16	20	57.12	44.8
	253	201	11	19	20	65.65	51.5
250×300	241	300	11	15	26	72.76	57.1
	244	300	11	18	26	81.76	64.2
300×200	298	199	10	15	22	60.23	47.3
	300	200	11	17	22	67.21	52.8
	303	201	12	20	22	76.24	59.8
	306	202	13	23	22	85.33	67
300×300	291	300	12	17	28	87.24	68
	294	300	12	20	28	96.24	75.6
	297	302	14	23	28	111.2	87.3
350×300	354	302	15	28	28	136.8	107
	350	300	13	24	28	117.7	92.4
	346	300	13	20	28	105.7	83
400×300	396	300	14	22	28	121.7	95.6
	400	300	14	26	28	133.7	105
	404	302	16	30	28	153.8	121

## ┘형강 Angles



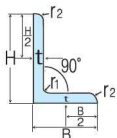
표준단면치수 Standard Sectional Dimension (m/m)		단위중량 Unit Weight	단위면적 Sectional Area	단면계수 Modulus of Section (cm <sup>3</sup> )	
H × B	t	(kg/m)	(cm <sup>2</sup> )	Zx	Zy
25 × 25	3	1.12	1.427	0.448	0.448
30 × 30	3	1.36	1.727	0.661	0.661
40 × 40	3	1.83	2.236	1.21	1.21
40 × 40	5	2.95	3.755	1.91	1.91
45 × 45	4	2.74	3.492	2.00	2.00
45 × 45	5	3.38	4.302	2.46	2.46
50 × 50	4	3.06	3.892	2.49	2.49
50 × 50	6	4.43	5.644	3.55	3.55
60 × 60	4	3.68	4.692	3.66	3.66
60 × 60	5	4.55	5.802	4.52	4.52
60 × 60	6	5.37	6.844	5.24	5.24
65 × 65	6	5.91	7.527	6.27	6.27
65 × 65	8	7.66	9.761	7.97	7.97
70 × 70	6	6.38	8.127	7.33	7.33
75 × 75	6	6.85	8.727	8.47	8.47
75 × 75	9	9.96	12.69	12.1	12.1
75 × 75	12	13.0	16.56	15.7	15.7
80 × 80	6	7.32	9.327	9.70	9.70
80 × 80	7	8.48	10.797	11.12	11.12

## ┌ 형강 Angles



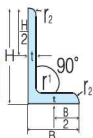
표준단면치수 Standard Sectional Dimension (m/m)		단위중량 Unit Weight	단위면적 Sectional Area	단면계수 Modulus of Section (cm <sup>3</sup> )	
H × B	t	(kg/m)	(cm <sup>2</sup> )	Zx	Zy
90 × 90	6	8.28	10.55	12.3	12.3
90 × 90	7	9.59	12.22	14.2	14.2
90 × 90	10	13.3	17.00	19.5	19.5
90 × 90	13	17.0	21.71	24.8	24.8
100 × 100	7	10.7	13.62	17.7	17.7
100 × 100	10	14.9	19.00	24.4	24.4
100 × 100	13	19.1	24.31	31.1	31.1
120 × 120	8	14.7	18.76	29.5	29.5
130 × 130	9	17.9	22.74	38.7	38.7
130 × 130	12	23.4	29.76	49.9	49.9
130 × 130	15	28.8	36.75	61.5	61.5
150 × 150	12	27.3	34.77	68.2	68.2
150 × 150	15	33.6	42.74	82.6	82.6
150 × 150	19	41.9	53.38	103	103
175 × 175	12	31.8	40.52	91.6	91.6
175 × 175	15	39.4	50.21	114	114
200 × 200	15	45.3	57.75	150	150
200 × 200	20	59.7	76.00	197	197
200 × 200	25	73.6	93.75	242	242
250 × 250	25	93.7	119.4	388	388
250 × 250	35	128	162.6	519	519

## 부등변 ㄱ형강 Unequal Angles



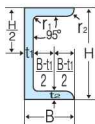
표준 단면 치수 Standard Sectional Dimension (m/m)		단위중량 Unit Weight		단위면적 Sectional Area	단면계수 Modulus of Section (cm <sup>3</sup> )	
H × B	t	(kg/m)	(cm <sup>2</sup> )	Zx	Zy	
90 × 75	9	11.0	14.04	17.4	12.4	
100 × 75	7	9.32	11.87	17.0	10.1	
	10	13.0	16.50	23.3	13.7	
125 × 75	7	10.7	13.62	26.1	10.3	
	10	14.9	19.00	36.1	14.1	
	13	19.1	24.31	46.1	17.9	
125 × 90	10	16.1	20.50	37.2	20.4	
	13	20.6	26.26	47.5	24.8	
150 × 90	9	16.4	20.94	48.2	19.0	
	12	21.5	27.36	62.3	24.3	
150 × 100	9	17.1	21.84	49.0	25.3	
	12	22.4	28.56	63.4	30.2	
	15	27.7	35.25	78.2	37.0	

## 부등변부등후 ㄱ형강 Inverted Angles



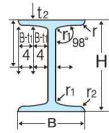
표준 단면 치수 Standard Sectional Dimension (m/m)				단위중량 Unit Weight	단위면적 Sectional Area	단면계수 Modulus of Section (cm <sup>3</sup> )		
H × B	t <sub>1</sub>	t <sub>2</sub>	r <sub>1</sub>	r <sub>2</sub>	W	A	Zx	Zy
200 × 90	9	14	14	7	23.3	29.66	88.7	29.2
250 × 90	10	15	17	8.5	29.4	37.47	149	31.5
	12	16	17	8.5	33.7	42.95	174	33.5
300 × 90	11	16	19	9.5	36.3	46.22	229	33.8
	13	17	19	9.5	41.3	52.67	264	35.8
350 × 100	12	17	22	11	45.3	57.74	338	44.5
400 × 100	13	18	24	12	53.8	68.59	467	47.1

## ≡ 형강 Channels



표준단면치수 Standard Sectional Dimension (m/m)			단위중량 Unit Weight (kg/m)	단위면적 Sectional Area (cm <sup>2</sup> )	단면계수 Modulus of Section (cm <sup>3</sup> )	
H × B	t <sub>1</sub>	t <sub>2</sub>			Z <sub>x</sub>	Z <sub>y</sub>
75 × 40	5	7	<b>6.92</b>	8.818	20.1	4.54
100 × 50	5	7.5	<b>9.36</b>	11.92	37.8	7.82
125 × 65	6	8	<b>13.4</b>	17.11	68.0	14.4
150 × 75	6.5	10	<b>18.6</b>	23.71	115	23.6
150 × 75	9	12.5	<b>24.0</b>	30.59	140	28.3
200 × 80	7.5	11	<b>24.6</b>	31.33	195	30.8
200 × 90	8	13.5	<b>30.3</b>	38.65	249	45.9
250 × 90	9	13	<b>34.6</b>	44.07	334	46.5
250 × 90	11	14.5	<b>40.2</b>	51.17	375	51.7
300 × 90	9	13	<b>38.1</b>	48.57	429	48.0
300 × 90	10	15.5	<b>43.8</b>	55.74	494	56.0
380 × 100	10.5	16	<b>54.5</b>	69.39	762	73.3
380 × 100	13	16.5	<b>62.0</b>	78.96	822	75.8
380 × 100	13	20	<b>67.3</b>	85.71	924	89.5

# I형강 I-Beams

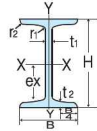


(KS D 3503, 3515 / 3502)

표준 단면 치수 Standard Sectional Dimension (m/m)					단위중량 Unit Weight (kg/m)	단면적 Sectional Area (cm <sup>2</sup> )	단면계수 Modulus of Section (cm <sup>3</sup> )	
H×B	t <sub>1</sub>	t <sub>2</sub>	r <sub>1</sub>	r <sub>2</sub>	W	A	Z <sub>x</sub>	Z <sub>y</sub>
100×75	5	8	7	3.5	12.9	16.43	56.2	12.6
125×75	5.5	9.5	9	4.5	16.1	20.45	86.0	15.3
150×75	5.5	9.5	9	4.5	17.1	21.83	109	15.3
150×125	8.5	14	13	6.5	36.2	46.15	235	61.6
180×100	6	10	10	5	23.6	30.06	186	27.5
200×100	7	10	10	5	26.0	33.06	217	27.7
200×150	9	16	15	7.5	50.4	64.16	446	10.0
250×125	7.5	12.5	12	6	38.3	48.79	414	53.9
250×125	10	19	21	10.5	55.5	70.73	585	86.0
300×150	8	13	12	6	48.3	61.5	632	78.4
300×150	10	18.5	19	9.5	65.5	83.47	849	118
300×150	11.5	22	23	11.5	76.8	97.88	978	149
350×150	9	15	13	6.5	58.5	74.58	870	93.5
350×150	12	24	25	12.5	87.2	111.1	1,280	158
400×150	10	18	17	8.5	72.0	91.73	1,200	115
400×150	12.5	25	27	13.5	95.8	122.1	1,580	165
450×175	11	20	19	9.5	91.7	116.8	1,740	173
450×175	13	26	27	13.5	115	146.1	2,170	231
600×190	13	25	25	12.5	133	169.4	3,280	259
600×190	16	35	38	19	176	224.5	4,330	373

국내생산물

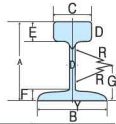
## 광산지보용 I형강 Mining I-Beams



(KS E 4002)

표준단면치수 Standard Sectional Dimension (m/m)					단위중량 Unit Weight	단위면적 Sectional Area	단면계수 Modulus of Section (cm <sup>3</sup> )	
H × B	t <sub>1</sub>	t <sub>2</sub>	r <sub>1</sub>	r <sub>2</sub>	W	A	Z <sub>x</sub>	Z <sub>y</sub>
100×80	9	12.5	13	4	20.7	26.4	80.7	21.1
130×100	12	17	16	7	35.0	44.6	175	42.3

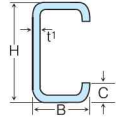
## 레일 Rails



(KS R 9101)

공칭치수 Nominal Size	단 면 치 수 Sectional Dimension (mm)						단위중량 Unit Weight
	A	B	C	D	F	t	kg/m
9kg	63.50	63.50	32.10	17.48	35.72	5.90	8.94
12kg	69.85	69.85	38.10	19.85	37.70	7.54	12.2
15kg	79.37	79.37	42.86	22.22	43.65	8.33	15.2
22kg	93.66	93.66	50.80	26.69	50.00	10.72	22.3
30kg	107.95	107.95	60.33	30.95	57.55	12.30	30.1
37kg	122.24	122.24	62.71	36.12	64.69	13.49	37.2
50kg	144.46	127.00	67.87	46.04	70.64	14.29	50.4
50kgN	153.00	127.00	65.00	49.00	74.00	15.00	50.4
60kg	174.00	145.00	65.00	49.00	30.10	16.50	60.8
70kg	148.00	140.00	65.30	52.00	68.00	35.00	69.5
73kg	135.00	140.00	100.00	42.00	65.50	32.00	73.3
100kg	150.00	155.00	120.00	53.00	65.50	39.00	100.2

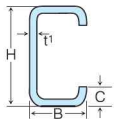
## C 형강 C-Channels



표준단면치수 Standard Sectional Dimension(m/m)	단위중량 Unit Weight	단위면적 Sectional Area	단면계수 Modulus of Section(cm <sup>3</sup> )	
			Zx	Zy
H × B × C × t	(kg/m)	(cm <sup>2</sup> )		
60×30×10×1.6	1.63	2.072	3.88	1.32
60×30×10×2.0	1.99	2.537	4.65	1.55
60×30×10×2.3	2.25	2.872	5.20	1.71
75×45×15×1.6	2.32	2.952	7.24	3.13
75×45×15×2.0	2.86	3.637	8.79	3.76
75×45×15×2.3	3.25	4.137	9.90	4.24
90×45×20×1.6	2.63	3.352	9.46	3.80
90×45×20×2.0	3.25	4.137	11.3	4.12
90×45×20×2.3	3.70	4.712	13.0	5.14
90×45×20×3.2	5.00	6.367	17.1	6.57
90×50×20×3.2	5.25	6.687	18.4	7.71
100×50×20×1.6	2.88	3.672	11.7	4.47
100×50×20×2.0	3.56	4.537	14.3	5.40
100×50×20×2.3	4.06	5.172	16.1	6.06
100×50×20×3.2	5.50	7.007	21.3	7.81
125×50×20×2.3	4.51	5.747	21.9	6.22
125×50×20×3.2	6.13	7.807	29.0	8.02
125×50×20×4.0	7.50	9.548	37.7	9.38

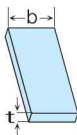


## C 형강 C-Channels



표준단면치수 Standard Sectional Dimension(m/m)	단위중량 Unit Weight	단위면적 Sectional Area	단면계수 Modulus of Section(cm <sup>3</sup> )	
H × B × C × t	(kg/m)	(cm <sup>2</sup> )	Zx	Zy
150 × 50 × 20 × 2.3	4.96	6.322	28.0	6.33
150 × 50 × 20 × 3.2	6.76	8.607	37.4	8.19
150 × 50 × 20 × 4.5	9.20	11.72	49.0	10.5
150 × 65 × 20 × 2.3	5.50	7.012	33.0	9.37
150 × 65 × 20 × 3.2	7.51	9.567	44.3	12.2
150 × 65 × 20 × 4.0	9.22	11.75	43.5	14.5
150 × 75 × 20 × 3.2	8.01	10.21	48.9	15.3
150 × 75 × 25 × 3.2	8.27	10.53	50.0	17.3
150 × 75 × 25 × 4.0	10.2	12.95	60.6	20.6
150 × 75 × 25 × 4.5	11.3	14.42	66.9	22.5
200 × 75 × 20 × 3.2	9.27	11.81	71.6	15.8
200 × 75 × 20 × 4.0	11.4	14.55	87.1	18.9
200 × 75 × 20 × 4.5	12.7	16.22	96.3	20.6
200 × 75 × 25 × 3.2	9.52	12.13	73.6	17.8
200 × 75 × 25 × 4.0	11.7	14.95	89.5	21.3
200 × 75 × 25 × 4.5	13.1	16.67	99.0	23.3
250 × 75 × 25 × 4.5	14.9	18.92	135	23.8

# 평철 Flat Bar



표준단면치수 Standard Sectional Dimension (mm)	단위중량 Unit Weight	표준단면치수 Standard Sectional Dimension (mm)	단위중량 Unit Weight
b × t	kg/m	b × t	kg/m
3 × 19	0.377	9 × 100	7.06
3 × 25	0.589	9 × 125	8.83
3 × 32	0.754	* 12 × 25	2.36
3 × 38	0.895	* 12 × 32	3.01
3 × 50	1.18	12 × 38	3.58
4.5 × 19	0.671	12 × 50	4.71
4.5 × 25	0.883	12 × 65	6.12
4.5 × 32	1.13	12 × 75	7.06
4.5 × 38	1.34	12 × 90	8.48
4.5 × 50	1.77	12 × 100	9.42
4.5 × 65	2.30	12 × 125	11.80
4.5 × 75	2.65	12 × 150	14.10
4.5 × 90	3.18	16 × 32	4.02
* 6 × 19	0.895	16 × 38	4.77
* 6 × 25	1.18	16 × 50	6.23
6 × 32	1.51	16 × 65	8.16
6 × 38	1.79	16 × 75	9.42
6 × 50	2.36	16 × 90	11.30
6 × 65	3.06	16 × 100	12.60
6 × 75	3.53	* 16 × 125	15.70
6 × 90	4.24	* 16 × 150	18.80
6 × 100	4.71	19 × 38	5.67
6 × 125	5.89	19 × 50	7.46
9 × 25	1.77	19 × 65	9.69
9 × 32	2.26	19 × 75	11.20
9 × 38	2.68	19 × 90	13.40
9 × 50	3.53	19 × 100	14.90
9 × 65	4.59	* 19 × 125	18.60
9 × 75	5.30	* 19 × 150	22.40
9 × 90	6.36		

\* 주문생산물

## 사각강



## 육각강



변 A	단위중량 Unit Weight
m/m	kg/m
8	0.502
9	0.636
10	0.785
12	1.13
13	1.33
16	2.01
19	2.83
22	3.80
25	4.91
28	6.15
32	8.04
38	11.3
44	15.2
50	19.6
55	23.7
65	33.2
75	44.2
90	63.6
100	78.5
110	95.0
120	113
130	133
140	154
150	177

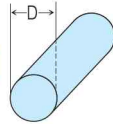
변 A	단위중량 Unit Weight
m/m	kg/m
9	0.551
12	0.979
19	2.45
22	3.29
25	4.25
29	5.72
32	6.96
35	8.33
38	9.82
50	17.0

## 팔각강



변 A	단위중량 Unit Weight
m/m	kg/m
15	1.46
20	2.60
25	4.06
30	5.85
40	10.4

## 환봉 및 마환봉 Round Bar



직 경 Dimension (mm)		단위중량 Unit Weight		직 경 Dimension (mm)		단위중량 Unit Weight	
m/m	inch	kg	kg/m	m/m	inch	kg	kg/m
6		0.067	0.222	31.75	1 1/4	1.9	6.21
6.35	1/4	0.076	0.249	32		1.92	6.31
8		0.12	0.395	36		2.42	7.99
9		0.152	0.499	38.1	1 1/2	2.7	8.95
9.52	3/8	0.17	0.559	41.27	1 5/14	3.2	10.5
10		0.19	0.617	44.45	1 4/4	3.8	12.2
11		0.227	0.746	50		4.70	15.4
11.11	7/16	0.232	0.761	50.8	2	4.85	15.9
12		0.271	0.888	53.97	2 1/8	5.48	18.0
12.7	1/2	0.303	0.995	55		5.69	18.7
13		0.318	1.04	57.15	2 1/4	6.14	20.1
14		0.366	1.21	60		6.77	22.2
15		0.423	1.39	60.32	2 3/14	6.84	22.4
15.88	5/8	0.474	1.55	63.5	2 1/2	7.58	24.9
16		0.481	1.58	65		7.94	26.0
17		0.543	1.78	75		10.6	34.7
18		0.609	2.00	80		12	39.5
19		0.678	2.23	85		13.5	44.5
19.05	3/4	0.682	2.24	90		15.2	49.9
20		0.752	2.47	100		18.8	61.7
22		0.909	2.98	110		22.7	74.6
22.22	7/8	0.928	3.05	120		27.1	88.8
23		0.99	3.26	130		31.8	104
24		1.076	3.55	140		36.8	121
25		1.17	3.85	150		42.3	139
25.4	1	1.21	3.95	160		48.1	158
26		1.265	4.17	170		54	178
28		1.47	4.83	180		60.9	200
28.58	1 1/14	1.54	5.03	190		67.6	223
30		1.75	5.55	200	8	75.2	247

# 이형철근 Deformed Bars for Concrete Reinforcement

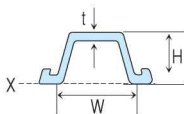
1톤단위 (KS D 3504기준)

1본중량 : 단중×1본길이(소수2자리 뺀)  
포장중량 : 1본중량×포장본수(kg서밋음)

규격	단위중량 kg/m	길이(m)		7	8	9	10	11	12
		구분							
D10	0.560	1본중량	3.92	4.48	5.04	5.60	6.16	6.72	
		1000개당 중량	270	210	210	180	150	150	
		1000개당 길이	1.058	941	1.058	1.008	924	1.008	
		1000개당 중량	1.890	1.680	1.890	1.800	1.650	1.800	
D13	0.995	1본중량	6.97	7.96	8.96	9.95	10.95	11.94	
		1000개당 중량	140	120	120	100	100	80	
		1000개당 길이	976	955	1.075	995	1.095	955	
		1000개당 중량	980	960	1.080	1.000	1.100	960	
D16	1.56	1본중량	10.92	12.48	14.04	15.60	17.16	18.72	
		1000개당 중량	90	75	75	60	60	60	
		1000개당 길이	983	936	1.053	936	1.030	1.123	
		1000개당 중량	630	600	675	600	660	720	
D19	2.25	1본중량	15.75	18.00	20.25	22.50	24.75	27.00	
		1000개당 중량	63	56	49	44	40	37	
		1000개당 길이	992	1.008	992	990	990	999	
		1000개당 중량	441	448	441	440	440	444	
D22	3.04	1본중량	21.28	24.32	27.36	30.40	33.44	36.48	
		1000개당 중량	47	41	37	33	30	27	
		1000개당 길이	1.000	997	1.012	1.003	1.003	985	
		1000개당 중량	329	328	333	330	330	324	
D25	3.98	1본중량	27.86	31.84	35.82	39.80	43.78	47.76	
		1000개당 중량	36	32	28	25	23	21	
		1000개당 길이	1.003	1.019	1.003	995	1.007	1.003	
		1000개당 중량	252	256	252	250	253	252	
D29	5.04	1본중량	35.28	40.32	45.36	50.40	55.44	60.48	
		1000개당 중량	28	25	22	20	18	17	
		1000개당 길이	988	1.008	998	1.008	998	1.028	
		1000개당 중량	196	200	198	200	198	204	
D32	6.23	1본중량	43.61	49.84	56.07	62.30	68.53	74.76	
		1000개당 중량	23	20	18	16	15	13	
		1000개당 길이	1.003	997	1.009	997	1.028	972	
		1000개당 중량	161	160	162	160	165	156	
D35	7.51	1본중량	52.57	60.08	67.59	75.10	82.61	90.12	
		1000개당 중량	19	17	15	13	12	11	
		1000개당 길이	999	1.021	1.014	976	991	991	
		1000개당 중량	133	136	135	130	132	132	
D38	8.95	1본중량	62.65	71.6	80.55	89.50	98.45	107.40	
		1000개당 중량	16	14	12	11	10	9	
		1000개당 길이	1.002	1.002	967	985	985	967	
		1000개당 중량	112	112	108	110	110	108	
D41	10.5	1본중량	73.5	84	94.5	105.00	115.50	126.00	
		1000개당 중량	14	12	11	10	9	8	
		1000개당 길이	1.029	1.008	1.040	1.050	1.040	1.008	
		1000개당 중량	98	96	99	100	99	96	



# 쉬트파일 Sheet Piles



KS F 4604

구 분 Section	표준단면치수 Dimension			단위중량 Unit Weight		단면적 Sectional Area
	W	H	t	Per pile	Per wall width	Per pile
	mm	mm	mm	Kg/m	Kg/m <sup>2</sup>	cm <sup>2</sup>
YSP-1	400	75	8.0	36.5	91.2	46.49
YSP-U-5	400	80	7.6	35.5	88.8	45.21
FSP-1A	400	85	8.0	35.5	88.8	45.21
YSP-II	400	100	10.5	48.0	120	61.18
FSP-II	400	100	10.5	48.0	120	61.18
YSP-U-9	400	110	9.3	43.2	108	55.01
FSP-II A	400	120	9.2	43.2	108	55.01
YSP-III	400	125	13.0	60.0	150	76.42
FSP-III	400	125	13.0	60.0	150	76.42
YSP-U-15	400	150	12.2	58.4	146	74.42
KWSP	400	150	13.0	60.0	150	76.40
YSP-IV	400	155	15.5	76.1	190	96.99
FSP-IV	400	170	14.7	76.1	190	96.99
YSP-U-23	400	175	16.1	74.0	185	94.21
FSP-IVA	400	185	16.1	74.0	185	94.2
YSP-V	420	175	22.3	105	250	134.0
FSP-V	500	200	24.3	105	210	133.8
FSP-VIL	500	225	27.6	120	240	153.0
KSP-III L	500	170	12.0	69.0	138	87.9

## 데크플레이트 Deck Plates

TYPE	SIZE		WEIGHT kg/m	WEIGHT kg/m <sup>2</sup>	FURROW DEPTH	FURROW DEPTH
	t(mm)	w(mm)				
614	1.2	614	8.21	13.37	50	3
	1.6	614	10.9	17.75	50	3
600	1.2	600	9.38	15.64	75	3
	1.6	600	12.4	20.67	75	3
660	1.2	660	8.64	13.09	50	3
	1.6	660	11.5	17.42	50	3
690	1.2	690	10.2	14.78	75	3
	1.6	690	14.0	19.71	75	3

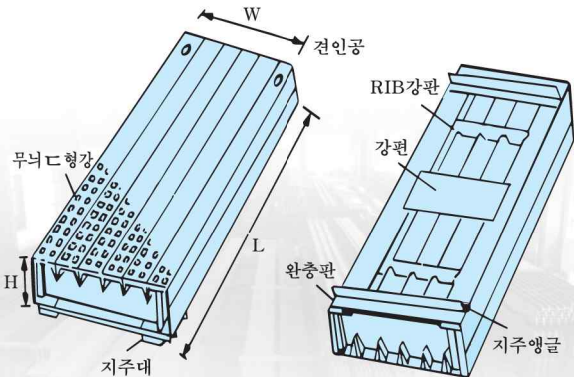
TYPE	FORMING SHAPES
614	
660	
600	
690	

# 무늬복공판 디테크 D-DECK

형상 Type	치 수 Dimensions(mm)			복개면적 Covering	개당중량 Unit Wt.	단 면 적 Sectional	단면2차모멘트 Moment of	단면계수 Modulus of
	W	L	H	Area (m <sup>2</sup> )	(Kg/Piece)	Area (cm <sup>2</sup> )	Inertia (cm <sup>4</sup> )	Section (cm <sup>3</sup> )
1-A	500	1,990	200	1.0	187	97.44	4.606	330
1-B	750	1,990	200	1.5	280	138.06	6.413	443
1-C	750	3,990	200	3.0	702	191.00	12.800	1.040
1-D	1,000	1,990	200	2.0	355	170.84	8.300	562

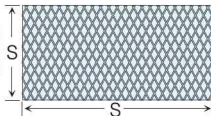
◆ 『디테크』의 종류  
(Type of Steel D-Deck Plates)

1. 지하공사용 로면복개용  
(Steel dack plate for underground work Temporary surface traffic for subway and bridge construction)



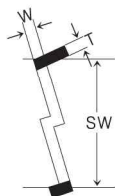
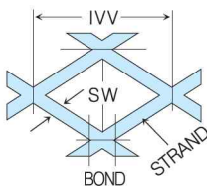


# 철판망 Expanded Metal



## 1. Standard 型

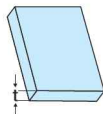
용 도	K.S 규격	MESH		STRAMD		3×6	4×8
		SWM	LWM	T(m/m)	T(m/m)	KG	KG
1. Metal Lath 用 2. 시설물의 안전 보호용 3. 버스의 엔진카바 4. 외관상식용	SS 132	12	30.5	1.6	2.0	6.5	11.74
	SS 133	12	30.5	2.3	3.0	14.24	25.31
	SS 241	22	50.8	1.6	2.0	3.59	6.38
	SS 242	22	50.8	2.3	2.5	6.45	11.47
	SS 243	22	50.8	3.2	3.5	12.57	12.35



## 2. Grating 型

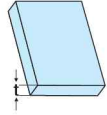
용 도	K.S 규격	MESH		STRAMD		3×6	4×8
		SWM	LWM	T(m/m)	T(m/m)	KG	KG
1. 검사통로	SG362	36	101.6	4.5	7.0	22.9	40.7
2. 보랑상장 및 계단	SG363	36	101.6	6.0	7.0	30.6	54.4
	SG364	36	101.6	6.0	9.0	39.4	70.1
3. 구조물 설치용	SG343-1	34	135.4	6.0	7.0	32.4	57.7
4. P.S.P대용	SG342-1	34	135.4	4.5	7.0	24.2	43.1
5. CHECK ERED PLATE 및 GRATING	SG344-1	34	135.4	6.0	9.0	41.6	74.0

# 열간압연강판 Hot Rolled Steel Sheets



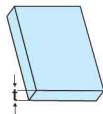
규격 ft(mm)	3'×6'	4'×8'	5'×10'	5'×20'	6'×10'	6'×20'	8'×20'
	914	1.219	1.524	1.524	1.829	1.829	2.438
두께(mm)	1.829	2.438	3.048	6.096	3.048	6.096	6.096
1.6	21.0	37.3					
1.8	23.6	42.0					
2.0	26.3	46.7	72.9				
2.3	30.2	53.7	83.9				
2.5	32.8	58.3	91.2				
2.6	34.1	60.7	94.8				
2.7	35.4	63.0	98.5				
3.0	39.4	70.0	109	219	131	263	
3.2	42.0	74.7	117	233	140	280	
3.5	45.9	81.7	128	255	153	306	
4.0	52.5	93.3	146	292	175	350	
4.5	59.1	105	164	328	197	394	525
5.0	65.6	117	182	365	219	438	583
6.0	78.8	140	219	438	263	525	700
7.0	91.9	163	255	510	306	613	817
8.0	105	187	292	583	350	700	933
9.0	118	210	328	656	394	788	1.050
10.0	131	233	365	729	438	875	1.167
11.0	144	257	401	802	481	963	1.283
12.0	158	280	438	875	525	1.050	1.400
13.0	171	303	474	947	569	1.137	1.516
14.0	184	327	510	1.021	613	1.225	1.633
15.0	197	350	547	1.094	657	1.313	1.751
16.0	210	373	583	1.167	700	1.400	1.866
17.0	223	396	620	1.239	744	1.487	1.982
18.0	236	420	656	1.313	788	1.575	2.100
19.0	249	443	693	1.386	832	1.664	2.217
20.0	263	467	729	1.459	875	1.751	2.333

# 열간압연강판 Hot Rolled Steel Sheets



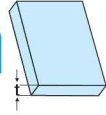
규격 ft(mm)	3'×6'	4'×8'	5'×10'	5'×20'	6'×10'	6'×20'	8'×20'
	914	1.219	1.524	1.524	1.829	1.829	2.438
두께(mm)	1.829	2.438	3.048	6.096	3.048	6.096	6.096
21.0	276	490	765	1,531	919	1,838	2,450
22.0	289	513	802	1,604	963	1,926	2,566
23.0	302	537	839	1,678	1,007	2,014	2,683
24.0	315	560	875	1,750	1,050	2,101	2,800
25.0	328	583	911	1,823	1,094	2,188	2,916
26.0	341	607	948	1,896	1,138	2,276	3,033
27.0	354	630	985	1,969	1,182	2,364	3,150
28.0	368	653	1,021	2,042	1,225	2,451	3,266
29.0	381	676	1,057	2,114	1,269	2,538	3,382
30.0	394	700	1,094	2,188	1,313	2,626	3,500
31.0	407	723	1,130	2,261	1,357	2,714	3,617
32.0	420	747	1,167	2,334	1,400	2,801	3,733
33.0	433	770	1,203	2,406	1,444	2,888	3,849
34.0	446	793	1,240	2,480	1,488	2,976	3,966
35.0	459	817	1,276	2,553	1,532	3,064	4,084
36.0	473	840	1,313	2,625	1,575	3,151	4,199
37.0	486	863	1,349	2,698	1,619	3,238	4,315
38.0	499	887	1,386	2,771	1,663	3,326	4,433
39.0	512	910	1,422	2,845	1,707	3,414	4,550
40.0	525	933	1,459	2,917	1,751	3,501	4,666
41.0	538	956	1,495	2,990	1,794	3,588	4,782
42.0	551	980	1,531	3,063	1,838	3,676	4,899
43.0	564	1,003	1,568	3,136	1,882	3,764	5,017
44.0	578	1,027	1,604	3,209	1,926	3,851	5,133
45.0	591	1,050	1,641	3,281	1,969	3,938	5,249
46.0	604	1,073	1,677	3,355	2,013	4,026	5,366
47.0	617	1,097	1,714	3,428	2,057	4,114	5,483
48.0	630	1,120	1,750	3,500	2,101	4,201	5,599
49.0	643	1,143	1,786	3,573	2,144	4,288	5,715
50.0	656	1,167	1,823	3,646	2,188	4,376	5,833

# 열간압연강판 Hot Rolled Steel Sheets



규격 ft(mm)	3'×6'	4'×8'	5'×10'	5'×20'	6'×10'	6'×20'	8'×20'
	914	1,219	1,524	1,524	1,829	1,829	2,438
두께(mm)	1,829	2,438	3,048	6,096	3,048	6,096	6,096
51.0	669	1,190	1,860	3,720	2,232	4,464	5,950
52.0	683	1,213	1,896	3,792	2,276	4,551	6,066
53.0	696	1,236	1,932	3,865	2,319	4,638	6,182
54.0	709	1,260	1,969	3,938	2,363	4,726	6,299
55.0	722	1,283	2,006	4,011	2,407	4,815	6,417
56.0	735	1,306	2,042	4,084	2,451	4,902	6,532
57.0	748	1,330	2,078	4,156	2,494	4,989	6,648
58.0	761	1,353	2,115	4,230	2,538	5,077	6,766
59.0	774	1,376	2,152	4,303	2,582	5,165	6,883
60.0	787	1,400	2,188	4,376	2,626	5,252	6,999
61.0	801	1,423	2,224	4,448	2,669	5,339	7,115
62.0	814	1,446	2,261	4,521	2,713	5,427	7,232
63.0	827	1,470	2,297	4,595	2,757	5,515	7,350
64.0	840	1,493	2,334	4,667	2,801	5,602	7,466
65.0	853	1,516	2,370	4,740	2,844	5,689	7,583
66.0	866	1,540	2,407	4,813	2,888	5,777	7,699
67.0	879	1,563	2,443	4,887	2,932	5,865	7,816
68.0	893	1,586	2,480	4,959	2,976	5,952	7,932
69.0	905	1,610	2,516	5,031	3,019	6,039	8,048
70.0	919	1,633	2,552	5,105	3,063	6,127	8,166
71.0	932	1,657	2,589	5,178	3,108	6,215	8,283
72.0	945	1,680	2,625	5,251	3,151	6,302	8,399
73.0	958	1,703	2,662	5,323	3,194	6,389	8,515
74.0	971	1,726	2,698	5,397	3,239	6,477	8,632
75.0	984	1,750	2,735	5,470	3,283	6,564	8,750
76.0	998	1,773	2,771	5,542	3,326	6,652	8,865
77.0	1,011	1,796	2,807	5,615	3,370	6,739	8,981
78.0	1,024	1,820	2,844	5,688	3,414	6,827	9,099
79.0	1,037	1,843	2,881	5,762	3,458	6,915	9,216
80.0	1,050	1,866	2,917	5,834	3,501	7,002	9,332

## 열간압연강판 Hot Rolled Steel Sheets



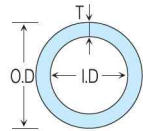
규격 ft(mm)	3'×6'	4'×8'	5'×10'	5'×20'	6'×10'	6'×20'	8'×20'
	914	1.219	1.524	1.524	1.829	1.829	2.438
두께(mm)	1.829	2.438	3.048	6.096	3.048	6.096	6.096
81.0	1,063	1,890	2,953	5,907	3,545	7,089	9,448
82.0	1,076	1,913	2,990	5,980	3,589	7,177	9,565
83.0	1,089	1,937	3,027	6,053	3,633	7,265	9,683
84.0	1,103	1,960	3,063	6,126	3,676	7,352	9,799
85.0	1,116	1,983	3,099	6,198	3,720	7,439	9,915
86.0	1,129	2,006	3,136	6,272	3,764	7,527	10,032
87.0	1,142	2,030	3,173	6,345	3,808	7,615	10,149
88.0	1,155	2,053	3,209	6,418	3,851	7,702	10,265
89.0	1,168	2,076	3,245	6,490	3,895	7,789	10,381
90.0	1,181	2,100	3,282	6,563	3,939	7,877	10,499
91.0	1,194	2,123	3,318	6,637	3,983	7,966	10,616
92.0	1,208	2,146	3,355	6,709	4,026	8,053	10,732
93.0	1,220	2,170	3,391	6,782	4,070	8,140	10,848
94.0	1,234	2,193	3,428	6,855	4,114	8,228	10,965
95.0	1,247	2,217	3,464	6,928	4,158	8,315	11,083
96.0	1,260	2,240	3,500	7,001	4,201	8,403	11,198
97.0	1,273	2,263	3,537	7,073	4,245	8,490	11,314
98.0	1,286	2,286	3,573	7,147	4,289	8,578	11,432
99.0	1,299	2,310	3,610	7,220	4,333	8,665	11,549
100.0	1,313	2,333	3,646	7,293	4,376	8,753	11,665

## 무늬강판 Checkered Plate



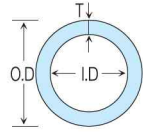
규격 ft(mm)	3'×6'	4'×8'	단위중량 Unit Weight
	914×1.829	1.219×2.438	
3.2	44.8	79.8	26.79
4.5	61.9	110	37.00
6.0	81.6	145	48.77
8.0	108	-	64.47

# 압력배관용 강관 PIPE



호 칭		외경	S.G.P		Sch 10		Sch 20		Sch 30	
A	B	m/m	두께 t	중량 kg/m	두께 t	중량 kg/m	두께 t	중량 kg/m	두께 t	중량 kg/m
6	¼	10.5	2.0	0.419						
8	5/16	13.8	2.1	0.652						
10	3/8	17.3	2.3	0.851						
15	½	21.7	2.8	1.31						
20	¾	27.2	2.8	1.68						
25	1	34.0	3.2	2.43						
32	1¼	42.7	2.9	3.38						
40	1½	48.6	3.5	3.89						
50	2	60.5	3.8	5.31			3.2	4.52		
65	2½	76.3	4.2	7.47			4.5	7.97		
80	3	89.1	4.2	8.49			4.5	9.39		
90	3½	101.6	4.2	10.1			4.5	10.8		
100	4	114.3	4.5	12.2			4.9	13.2		
125	5	139.8	4.5	15.0			5.1	16.9		
150	6	165.2	5.0	19.8			5.5	21.7		
200	8	216.3	5.8	30.1			6.4	33.1	7.0	36.1
250	10	267.4	6.6	42.4			6.4	41.2	7.8	49.9
300	12	318.5	6.5	53.0			6.4	49.3	8.4	64.2
350	14	355.6	7.9	67.7	64	55.1	7.9	67.7	9.5	81.1
400	16	406.4	7.9	77.6	64	63.1	7.9	77.6	9.5	93.0
450	18	457.2	7.9	87.5	64	71.1	7.9	87.5	11.1	122
500	20	508.0	7.9	97.4	64	79.2	9.5	117	12.7	155
550	22	558.8			64	87.2	9.5	129	12.7	171
600	24	609.6			64	95.2	9.5	141	14.3	228
650	26	660.4			7.9	103	12.7	203	-	-

# 압력배관용 강관 PIPE



Sch 40		Sch 60		Sch 80		Sch 160	
두께 (m/m)	중량 (kg/m)	두께 (m/m)	중량 (kg/m)	두께 (m/m)	중량 (kg/m)	두께 (m/m)	중량 (kg/m)
1.7	0.369	2.2	0.450	2.4	0.479		
2.2	0.629	2.4	0.675	3.0	0.799		
2.3	0.851	2.8	1.00	3.2	1.11		
2.8	1.31	3.2	1.46	3.7	1.64	4.7	1.97
2.9	1.74	3.4	2.00	3.9	2.24	5.5	2.94
3.4	2.57	3.9	2.89	4.5	3.27	6.4	4.36
3.6	3.47	4.5	4.24	4.9	4.57	6.4	5.73
3.7	4.10	4.5	4.89	5.1	5.47	7.1	7.27
3.9	5.44	4.9	6.72	5.5	7.46	8.7	11.1
5.2	9.12	6.0	10.4	7.0	12.0	9.5	15.6
5.5	11.3	6.6	13.4	7.6	15.3	11.1	21.4
5.7	13.5	7.0	16.3	8.1	18.7	12.7	27.8
6.0	16.0	7.1	18.8	8.6	22.4	13.5	33.6
6.6	21.7	8.1	26.3	9.5	30.5	15.9	48.6
7.1	27.7	9.3	35.8	11.0	41.8	18.2	66.0
8.2	42.1	10.3	52.3	12.7	63.8	23.0	110
9.3	59.2	12.7	79.8	15.1	93.9	28.6	168
10.3	78.3	14.3	107	17.4	129	33.3	234
11.1	94.3	15.1	127	19.0	158	35.7	282
12.7	123	16.7	160	21.4	203	40.5	365
14.3	156	19.0	205	23.8	254	45.2	459
15.1	184	20.6	248	26.2	311	50.0	565
15.9	213	22.2	294	28.6	374	54.0	672
17.5	256	24.6	355	31.0	442	59.5	807
18.9	299	26.4	413	34.0	525	64.2	944

## 일반 구조용 강관 SPS STK

바깥지름(m/m)	두께 (m/m)	중량(kg/m)	단면적(cm <sup>2</sup> )
21.7	2.0	0.972	1.238
27.2	2.0	1.24	1.583
	2.3	1.41	1.799
34.0	2.3	1.80	2.291
42.7	2.3	2.29	2.919
	2.8	2.76	3.510
48.6	2.3	2.63	3.345
	3.2	3.58	4.564
60.5	2.3	3.30	4.205
	3.2	4.52	5.760
76.3	2.8	5.08	6.465
	3.2	5.77	7.349
89.1	2.8	5.96	7.591
	3.2	6.78	8.636
101.6	3.2	7.76	9.892
	5.0	11.9	15.17
114.3	3.2	8.77	11.17
	4.5	12.2	15.52
	5.6	15.0	19.12
139.8	3.6	12.1	15.40
	4.5	15.0	19.13
	6.0	19.8	25.22
165.2	4.5	17.8	22.72
	6.0	23.6	30.01
	7.0	27.3	34.79
190.7	4.5	20.7	26.32
	6.0	27.3	34.82
	7.0	31.7	40.40
216.3	4.5	23.5	29.94
	6.0	31.1	39.61
	8.0	41.1	52.35
267.4	6.0	38.7	49.27
	8.0	51.2	65.19
	9.0	57.4	73.06
318.5	6.0	46.2	58.91
	7.0	53.8	68.50
	9.0	68.7	87.51
355.6	6.3	54.3	69.13
	9.0	76.9	98.00
	12.0	102	129.5



## 일반 구조용 강관 SPS STK

바깥지름(m/m)	두께(m/m)	중량(kg/m)	단면적(cm <sup>2</sup> )
406.4	9.0	<b>88.2</b>	112.4
	12.0	<b>117</b>	148.7
	16.0	<b>154</b>	196.2
457.2	9.0	<b>99.5</b>	126.7
	12.0	<b>132</b>	167.8
	19.0	<b>205</b>	261.6
508.0	9.0	<b>111</b>	141.1
	12.0	<b>147</b>	187.0
	19.0	<b>229</b>	291.9
558.8	9.0	<b>122</b>	155.5
	12.0	<b>162</b>	206.1
	16.0	<b>214</b>	272.8
	19.0	<b>253</b>	322.2
609.6	9.0	<b>133</b>	169.8
	12.0	<b>177</b>	225.3
	16.0	<b>234</b>	298.4
	19.0	<b>277</b>	352.5
700	9.0	<b>153</b>	195.4
	12.0	<b>204</b>	259.4
	16.0	<b>270</b>	343.8
711.2	9.0	<b>156</b>	198.5
	12.0	<b>207</b>	263.6
	16.0	<b>274</b>	349.4
	19.0	<b>324</b>	413.2
	22.0	<b>374</b>	476.3
812.8	12.0	<b>237</b>	301.9
	14.0	<b>276</b>	351.3
	16.0	<b>314</b>	400.5
	19.0	<b>372</b>	473.8
	22.0	<b>429</b>	546.6
914.4	12.0	<b>267</b>	340.2
	14.0	<b>311</b>	396.0
	16.0	<b>354</b>	451.6
	19.0	<b>420</b>	534.5
	22.0	<b>484</b>	616.5
1016.0	12.0	<b>297</b>	378.5
	14.0	<b>346</b>	440.7
	16.0	<b>395</b>	502.7
	19.0	<b>467</b>	595.1
	22.0	<b>539</b>	687.0

## 일반 배관용 강관 SPP

KS D 3507-1985

관의 호칭		비깔지름 mm	비깔지름허용차		두께 mm	두께 허용차	소켓제외중량 kg/m
mm	in		테퍼나사관	기타관			
6	⅝	10.5	±0.5mm		2.00		0.419
8	¾	13.8	±0.5mm		2.35		0.664
10	⅞	17.3	±0.5mm		2.35		0.866
15	½	21.7	±0.5mm		2.65		1.25
20	¾	27.2	±0.5mm		2.65		1.60
25	1	34.0	±0.5mm		3.25		2.45
32	1¼	42.7	±0.5mm		3.25		3.16
40	1½	48.6	±0.5mm		3.25		3.63
50	2	60.5	±0.5mm	±1%	3.65		5.12
65	2½	76.3	±0.7mm	±1%	3.65		6.34
80	3	89.1	±0.8mm	±1%	4.05	+규정	8.49
90	3½	101.6	±0.8mm	±1%	4.05	하지	9.74
100	4	114.3	±0.8mm	±1%	4.50	않음	12.2
125	5	139.8	±0.8mm	±1%	4.85		16.1
150	6	165.2	±0.8mm	±1%	4.85	-125%	19.2
175	7	190.7	±0.9mm	±1%	5.30		24.2
200	8	216.5	±1.0mm	±1%	5.85		30.4
225	9	241.8	±1.2mm	±1%	6.20		36.0
250	10	267.4	±1.3mm	±1%	6.40		41.2
300	12	318.5	±1.5mm	±1%	7.00		53.8
350	14	355.6	-	±1%	7.60		65.2
400	16	406.4	-	±1%	7.9		77.6
450	18	457.2	-	±1%	7.9		87.5
500	20	508.0	-	±1%	7.9		97.4
550	22	558.8	-	-	7.9		107.0
600	24	609.6	-	-	7.9		117.0

# 전 선 관

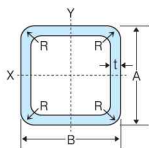
## ■ 아연도금 강제전선관

호칭	내 경		외 경		두께		중량
	in	mm	in	mm	in	mm	kg/m
½	0.632	16.0	0.840	21.3	0.104	2.64	35.83
¾	0.836	21.3	1.050	26.7	0.107	2.72	47.63
1	1.063	27.0	1.315	33.4	0.126	3.20	69.40
1¼	1.394	35.4	1.660	42.2	0.133	3.38	91.17
1½	1.624	41.3	1.900	48.3	0.138	3.51	112.95
2	2.083	52.9	2.375	60.3	0.146	3.71	150.60
2½	2.489	63.2	2.875	73.0	0.193	4.90	239.05
3	3.090	78.5	3.500	88.9	0.205	5.21	309.63
3½	3.570	90.7	4.000	101.6	0.215	5.46	376.94
4	4.050	102.9	4.500	114.3	0.225	5.72	441.04
5	5.073	128.9	5.563	141.3	0.245	6.22	595.85
6	6.093	154.8	6.625	168.3	0.266	6.76	791.67

## ■ 강제 전선관

호칭	내 경		외 경		두께		중량
	in	mm	in	mm	in	mm	kg/m
½	0.632	16.05	0.840	21.34	0.104	2.64	35.83
¾	0.836	21.23	1.050	26.67	0.107	2.72	47.63
1	1.063	27.00	1.315	33.40	0.126	3.20	69.40
1¼	1.394	35.41	1.660	42.16	0.133	3.38	91.17
1½	1.624	41.25	1.900	48.26	0.138	3.51	112.95
2	2.083	52.91	2.375	60.33	0.146	3.71	150.59
2½	2.489	63.22	2.875	73.03	0.193	4.90	239.04
3	3.090	78.49	3.500	88.90	0.205	5.21	309.62
3½	3.570	90.68	4.000	101.60	0.215	5.46	376.94
4	4.050	102.87	4.500	114.30	0.225	5.72	441.03
5	5.073	128.85	5.563	141.30	0.245	6.22	595.84
6	6.093	154.76	6.625	168.28	0.266	6.76	791.66

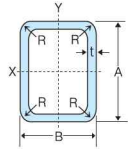
## 일반구조용 각형강관



정사각관 KS D 3568

변의길이 (m/m)	두께 (m/m)	단위중량 (kg/m)	변의길이 (m/m)	두께 (M/m)	단위중량 (kg/m)
15×15	1.4	0.566	175×175	4.5	23.7
	1.6	0.616		6.0	31.1
19×19	1.4	0.733	200×200	6.0	35.8
	1.6	0.816		9.0	52.3
20×20	1.2	0.679		12.0	67.9
	1.6	0.872		250×250	6.0
25×25	1.2	0.867	9.0		66.5
	1.6	1.12	12.0		86.8
30×30	1.2	1.06		16.0	112.4
	1.6	1.38		300×300	6.0
40×40	1.6	1.88	9.0		80.6
	2.3	2.62	12.0		106
50×50	1.6	2.38	16.0		138
	2.3	3.34	19.0	160	
	3.2	4.50	350×350	6.0	64.1
60×60	1.6	2.88		9.0	94.7
	2.3	4.06		12.0	124
	3.2	5.50		16.0	163
	75×75	2.3	5.14	19.0	190
		3.2	7.01	400×400	9.0
	90×90	2.3	6.23		12.0
		3.2	8.51		16.0
	100×100	2.3	6.95		19.0
3.2		9.51	22.0	251	
4.0		11.7	450×450	12.0	160
4.5		13.1		16.0	209
125×125	3.2	12.0		19.0	250
	4.5	16.6		22.0	286
	5.0	18.3	500×500	12.0	181
	6.0	21.7		16.0	238
	150×150	4.5		20.1	19.0
5.0		22.3	22.0	320	
	6.0	26.4			

## 일반구조용 각형강관



직사각관 KS D 3568

변의길이 (m/m)	두께 (m/m)	단위중량 (kg/m)	변의길이 (m/m)	두께 (m/m)	단위중량 (kg/m)
30×20	1.6	1.16	100×75	2.3	6.05
	2.3	1.53		3.2	8.26
	3.2	1.98		4.5	11.3
		6.0		14.6	
40×20	1.6	1.41	125×75	2.3	6.95
	2.3	1.73		3.2	9.52
	3.2	2.47		4.5	13.1
50×30	1.6	1.88	150×50	6.0	17.0
	2.3	2.62		2.3	6.95
	3.2	3.49		3.2	9.53
	4.5	4.61	4.5	13.1	
60×30	1.6	2.13	150×75	6.0	17.0
	2.3	2.98		3.2	10.8
	3.2	3.99		4.5	14.9
60×40	1.6	2.38	150×100	6.0	19.34
	2.3	3.34		3.2	12.0
	3.2	4.50		4.5	16.6
75×45	1.6	2.88	200×100	6.0	21.7
	2.3	4.06		9.0	31.1
	3.2	5.50		4.5	20.1
	4.5	7.43	6.0	26.4	
75×50	1.6	3.01	300×200	9.0	38.2
	2.3	4.24		6.0	45.2
	3.2	5.75		9.0	66.5
100×50	2.3	5.14	400×200	12.0	86.8
	3.2	7.01		6.0	54.7
	4.5	9.55	9.0	80.6	
	6.0	12.3	12.0	106	

## 배관용 스텐레스 강관

A	B	외경 mm	두께 및 중량					
			SCH/5S			SCH/10S		
			m	중량 kg/m		m	중량 kg/m	
				종류			종류	
304 304H 304L	309 309S 310 310S 316 316H 316L 317 317L 347 347H	304 304H 304L		309 309S 310 310S 316 316H 316L 317 317L 347 347H				
6	1/8	10.5	1.0	0.237	0.238	1.2	0.278	0.280
8	1/4	13.8	1.2	0.377	0.379	1.65	0.499	0.499
10	3/8	17.3	1.2	0.481	0.484	1.65	0.643	0.643
15	1/2	21.7	1.65	0.824	0.829	2.1	1.03	1.03
20	3/4	27.2	1.65	1.05	1.06	2.1	1.31	1.31
25	1	34.0	1.65	1.33	1.34	2.8	2.18	2.18
32	1 1/4	42.7	1.65	1.69	1.70	2.8	2.78	2.78
40	1 1/2	48.6	1.65	1.93	1.94	2.8	3.19	3.19
50	2	60.5	1.65	2.42	2.43	2.8	4.02	4.02
65	2 1/2	76.3	2.1	3.88	3.91	3.0	5.48	5.48
80	3	89.1	2.1	4.55	4.58	3.0	6.43	6.43
90	3 1/2	101.6	2.1	5.20	5.24	3.0	7.37	7.37
100	4	114.3	2.1	5.87	5.91	3.0	8.32	8.332
125	5	139.8	2.8	9.56	9.62	3.4	11.6	11.6
150	6	165.2	2.8	11.3	11.4	3.4	13.7	13.7
200	8	216.3	2.8	14.9	15.0	4.0	21.2	21.2
250	10	267.4	3.4	22.4	22.5	4.0	26.2	26.2
300	12	318.5	4.0	31.3	31.5	4.5	35.2	35.2
350	14	355.6	-	-	-	-	-	-
400	16	406.4	-	-	-	-	-	-
450	18	457.2	-	-	-	-	-	-
500	20	508.0	-	-	-	-	-	-
550	22	558.8	-	-	-	-	-	-
600	24	609.6	-	-	-	-	-	-
650	26	660.4	-	-	-	-	-	-

# 배관용 스텐레스 강관

두께 및 중량								
SCH/20S			SCH/40S			SCH/80S		
m	중량 kg/m		m	중량 kg/m		m	중량 kg/m	
	종류			종류			종류	
	304	309 309S 310 310S 316 316H 316L 317 317L 347 347H		304	309 309S 310 310S 316 316H 316L 317 317L 347 347H		304	309 309S 310 310S 316 316H 316L 317 317L 347 347H
1.5	0.336	0.338	1.7	0.373	0.375	2.4	0.484	0.487
2.0	0.588	0.592	2.2	0.636	0.640	3.0	0.807	0.812
2.0	0.762	0.767	2.3	0.859	0.865	3.2	1.12	1.13
2.5	1.20	1.20	2.8	1.32	1.33	3.7	1.66	1.67
2.5	1.54	1.55	2.9	1.76	1.77	3.9	2.26	2.28
3.0	2.32	2.33	3.4	2.59	2.61	4.5	3.31	3.33
3.0	2.97	2.99	3.6	3.51	3.53	4.9	4.61	4.64
3.0	3.41	3.43	3.7	4.14	4.16	5.1	5.53	5.56
3.5	4.97	5.00	3.9	5.50	5.53	5.5	7.54	7.58
3.5	5.35	6.39	5.2	9.21	9.27	7.0	12.1	12.2
4.0	8.48	8.53	5.5	11.5	11.5	7.6	15.4	15.5
4.0	9.72	9.79	5.7	13.6	13.7	8.1	18.9	19.0
4.0	11.0	11.1	6.0	16.2	16.3	8.6	22.6	22.8
5.0	16.3	16.9	6.6	21.9	22.0	9.5	30.8	31.0
5.0	20.0	20.1	7.1	28.0	28.1	11.0	42.3	42.5
6.5	34.0	34.2	8.2	42.5	42.8	12.7	64.4	64.8
6.5	42.2	42.5	9.3	59.8	60.2	15.1	94.9	95.5
6.5	50.5	50.8	10.3	79.1	79.6	17.4	131	131
-	-	-	11.1	95.3	95.6	19.0	159	160
-	-	-	12.7	125	125	21.4	205	207
-	-	-	14.3	158	159	23.8	257	259
-	-	-	15.1	185	187	26.2	314	316
-	-	-	15.9	215	216	28.6	378	380
-	-	-	17.5	258	260	31.0	447	450
-	-	-	18.9	302	304	34.0	531	534

## 구조용스텐레스강관 STS304

치수 m/m 단위중량 kg/m

두께 외경	0.5	0.6	0.7	0.8	1.0	1.2	1.5	2.0
5.0	0.056	0.066						
6.0	0.069	0.081	0.092					
7.0	0.081	0.096	0.110	0.124				
8.0	0.093	0.111	0.127	0.143	0.174	0.203		
9.6	0.112	0.133	0.154	0.174	0.212	0.249		
10.0	0.118	0.140	0.162	0.183	0.224	0.263		
12.0	0.143	0.170	0.197	0.223	0.274	0.323	0.392	0.498
12.7	0.152	0.180	0.209	0.237	0.291	0.344	0.418	0.534
13.8	0.166	0.197	0.228	0.260	0.319	0.377	0.456	0.588
15.8	0.191	0.228	0.265	0.301	0.371	0.439	0.537	0.692
17.3	0.209	0.249	0.289	0.329	0.406	0.481	0.590	0.762
19.1	0.232	0.276	0.318	0.365	0.448	0.535	0.658	0.847
21.7	0.264	0.315	0.366	0.416	0.516	0.613	0.755	0.981
22.3	0.271	0.323	0.375	0.427	0.529	0.628	0.774	1.007
25.4	0.310	0.371	0.431	0.490	0.608	0.723	0.893	1.166
31.8		0.466	0.542	0.618	0.767	0.915	1.132	1.485
34.0		0.499	0.581	0.662	0.822	0.980	1.214	1.594
38.1			0.652	0.743	0.924	1.103	1.368	1.799
42.7			0.732	0.835	1.039	1.241	1.539	2.028
48.6			0.835	0.953	1.186	1.427	1.760	2.322
50.8				0.996	1.241	1.483	1.842	2.431
60.5				1.190	1.482	1.773	2.205	2.914
63.5					1.557	1.862	2.317	3.064
76.3					1.876	2.245	2.795	3.702
89.1					2.195	2.628	3.273	4.340
96.0					2.366	2.834	3.531	4.683
101.6					2.506	3.001	3.749	4.962
127.0					3.139	3.760	4.689	6.228
152.4					3.771	4.520	5.638	7.493



# 스텐레스강판 *Stainless Steel Sheets*

SUS

\* A(304, 304L, 321) \* B(316, 316L, 309S, 310S, 346) \* C(430)

폭×장 강종별기호	1,000×2,000 3.3'×6.6'			1,219×2,438 4'×8'			1,524×3,048 5'×10'		
	A	B	C	A	B	C	A	B	C
0.3	4.76	4.79	4.62	7.07	7.11	6.87	11.05	11.12	10.73
0.4	6.34	6.38	6.16	9.43	9.49	9.15	14.73	14.83	14.31
0.5	7.93	7.98	7.70	11.78	11.86	11.44	18.42	18.53	17.88
0.6	9.52	9.58	9.24	14.14	14.22	13.73	22.10	22.24	21.46
0.7	11.10	11.17	10.78	16.49	16.60	16.02	25.79	25.95	25.04
0.8	12.69	12.77	12.32	18.85	18.97	18.31	29.47	29.65	28.61
0.9	14.27	14.36	13.86	21.21	21.34	20.60	33.15	33.36	32.19
1.0	15.86	15.96	15.40	23.57	23.72	22.88	36.84	37.07	35.77
1.2	19.03	19.15	18.48	28.28	28.46	27.46	44.20	44.48	42.92
1.5	23.79	23.94	23.10	35.35	35.57	34.33	55.25	55.60	53.65
2.0	31.72	31.92	30.80	47.13	47.43	45.77	73.67	74.14	71.54
2.5	39.65	39.90	38.50	58.92	59.29	57.21	92.09	92.67	89.42
3.0	47.58	47.88	46.20	70.70	71.15	68.65	110.51	111.20	107.30
3.2	50.75	51.07	49.28	75.42	75.89	73.23	117.88	118.62	114.46
3.5	55.51	55.86	53.90	82.49	83.01	80.19	128.93	129.74	125.19
4.0	63.44	63.84	61.60	94.27	94.86	91.53	147.34	148.27	143.07
4.5	71.37	71.82	69.30	106.05	106.72	102.98	165.76	166.81	160.95
5.0	79.30	79.80	77.00	117.84	118.58	114.42	184.18	185.34	178.84
6.0	95.16	95.76	92.40	141.40	142.30	137.30	221.01	222.41	214.61
7.0	111.02	111.72	107.80	164.97	166.01	160.19	257.85	259.48	250.37
8.0	126.88	127.68	123.20	188.54	189.72	183.07	294.69	296.55	286.14
9.0	142.74	143.64	138.60	212.11	213.44	205.95	331.52	333.61	321.91
10.0	158.60	159.60	154.00	235.67	237.16	228.84	368.36	370.68	357.68
12.0	190.32	191.52	184.80	282.81	284.59	274.61	442.03	444.82	429.21
15.0	237.90	239.40	231.00	353.51	356.74	343.26	552.54	556.02	536.52
16.0	253.76	255.36	246.40	377.07	379.46	366.14	589.38	593.09	572.28
18.0	285.48	287.28	277.20	424.21	426.89	411.91	663.05	667.23	643.32
20.0	317.20	319.20	308.00	471.31	474.31	457.68	736.72	741.37	715.35
22.0	348.92	351.12	338.80	516.48	521.75	503.44	810.39	815.50	786.89
25.0	396.50	399.00	385.00	589.18	592.90	572.09	920.90	926.71	894.19
28.0	444.08	446.88	431.20	659.89	664.05	640.75	1031.41	1037.91	1001.49
30.0	475.80	478.80	462.00	707.02	711.48	686.51	1105.08	1112.05	1073.03
32.0	507.52	510.72	492.80	754.15	758.91	732.28	1178.75	1186.19	1144.57
35.0	555.10	558.60	539.00	824.86	830.06	800.93	1289.26	1297.39	1251.87
38.0	602.68	606.48	585.20	895.60	901.21	869.58	1399.77	1408.60	1359.17
40.0	634.40	638.40	616.00	942.69	948.64	915.35	1473.44	1482.73	1430.71
45.0	713.70	718.20	693.00	1060.53	1067.22	1029.77	1657.62	1668.07	1609.55
50.0	793.33	798.00	770.00	1178.37	1185.80	1144.19	1841.80	1853.42	1788.38
55.0	872.30	877.80		1296.20	1304.38		2025.98	2038.76	
60.0	951.60	957.60		1414.04	1422.96		2210.16	2224.10	
65.0	1030.90	1037.40		1531.88	1541.54		2394.34	2409.44	
70.0	1110.20	1117.20		1649.71	1660.12		2578.52	2594.78	
80.0	1268.80	1276.80		1885.39	1897.28		2946.88	2965.47	
90.0	1427.40	1436.40		2121.06	2134.43				
100.0	1586.00	1596.00		2356.73	2371.59				



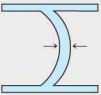
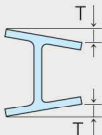
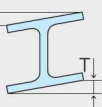
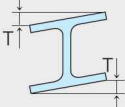
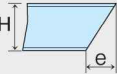
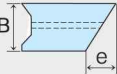
## 제조규격 Specifications

구 분	규 격					
	POSCO	KS	JIS	ASTM	기 타	
선체구조용 강재	PILAC W33A, B,C PILAC W37A,B,C,D	KR RA, RB, RD RE, RA32 RD32, RE32, RA36, RD36, RE36, RA40, RD40, RE40, RL24A, B RL33, 37	NK RA, RB, KD KE, KA32 KD32, KE32, KA36, KD36, KE36, KA40, KD40, KE40, KL24A, B KL33, 37	ABS A, B, D AH32, DH32, EH32, AH32, DH40, EH40,	NV, CR, BV, RINA A, B, D NV, RINA A27, D27, E27 A32, D32, E32, A36, D36, E36, A40, D40, E40 CR, BV A, D, E32/36, A, D, E40, KL24A, B, KL33, 37	LR AH32, DH32, EH32, AHS34, DHS34, AH36, DH36, EH36, AH40 GL A32, D32, E32, A36, D36, E36, A40, D40, E40
기계구조용 강재		KS D3752 SM10C~ SM58C	JIS G4051 S10C~S58C JIS G4105 SCM415~440	SAE1010 ~SAE1060		
보일러 및 압력용기용 강재		KS D3560 SB410, 450 480 KS D3540 SGV410, 450, 480 KS D3521 SPPV235, 315, SPPV450, 490 KSD3560 SB450M SB480M	JIN G3103 SB410, 450 480 SB450M, SB490M JIS G3118 SGV410, 450, 480 JIS G3115 SPV235, 315 355 JIS G3119 SBV1A SBV1E, 2, 3 JIS G4109 SCMV 1, 2, 3	A285GrA, B, C A515 Gr 55, 60, 65, 70 A516 Gr 55, 60, 65, 70 A537 Class 1, 2 A387 Gr 11, 12,	DIN 17155 H I, H II DIN17155 15M03 BS 1501-151 Gr360A, B Gr400A, B BS 1501-221 Gr460A, B BS 1501-224 Gr490A, B Gr400A, B Gr430A, B Gr460A BS 1501-240 1/4MO BS 1501-261 1/4MO	

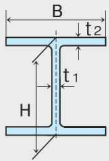
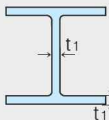
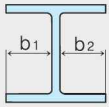
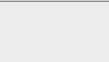
## 제조규격 Specifications

구 분	규 격					
	POSCO	KS	JIS	ASTM	기 타	
저온 압력용기용 강재		KS SLA235A,B SLA325A,B SLA360 <b>KS D 3586</b> SL3N255, SL3N275, SL3N440, SL9N590	JIS G 3126 SLA235A,B SLA325A,B SLA360 <b>JIS G 3127</b> SL3N255, SL3N275, SL3N440, SL9N590	A662 Gr A,B,C <b>A203</b> Gr A,B,C,D, E,F <b>A553-1</b>	WDEhw680 TTST41 TTST45 <b>BS1501-224</b> Gr 430A,B Gr 460A,B	
석유수송용 강재					API 5L-A,B X42,X46, X52,X56,X60, x65,x70	
해양구조물					API-2H Gr42, 50 <b>API-2W</b> Gr42, 50, 60	
내후성 압연강재		KS D3529 SMA41AW,AP SMA41BW,BP SMA41CW,CP SMA50AW,AP SMA50BW,BP SMA50CW,CP SMA58W SMA59P	JIN G3114 SMA400AW,AP SMA400BW,BP SMA400CW,CP SMA90AW,AP SMA90BW,BP SMA90CW,CP SMA570W SMA570P	A441 <b>A558</b> Gr A,B,C, D,E,F		
구조용 압연강재	PILAC-BT33,36 POSTEN60 POSTEN60RE POSTEN60HW POSTEN60CF POSTEN62 POSTEN62HW POSTEN62CF POSTEN80 POSTEN80E	<b>KS D3503</b> SS330,SS400 SS490 <b>KS D 3514</b> SWS400A,B,C SWS490A,B,C SWS490YA,YB SWS520B,C SWS570	JIS G 3101 SS330,SS400 SS490 <b>JIS G 3106</b> SM400 A,B,C SM490 A,B,C SM490 YA,YB SM570 <b>JIS G 3136</b> SN400A,B,C SN490 B,C <b>JIS G 3128</b> SHY658N, NS	A283 Gr A,B,C,D, <b>A36</b> <b>A284</b> Gr A,B,C,D, <b>A527</b> Gr42,50,60,65 <b>A633</b> Gr A,B,C,D, A678 GrB,C <b>A656</b> <b>A514B,F</b> <b>A573Gr58,65,70</b>	DIN17100 U,RST34-1,2 ST37-1, 2, 3 U,RST42-1 RST 42-2, 3 ST 50-1,2 ST 50-1,2 ST 52-3 ST60-1,2 ST70-2 ISO R 630 Fe 33, 37 Fe42,22,52	<b>BS 4360</b> Gr40A,B,C,D,E Gr43A,B,C,D,E Gr50A,B,C,D,E Gr55C,E,F <b>CAS G 4021</b> <b>IS 226</b> <b>ST42(S)(S,C)</b> <b>IS2062</b> <b>ST 42(W)</b> <b>ST 42(W,C)</b>

## H형강 치수 허용오차 Dimension Tolerance

항목	규격	KS D 3502	JIS G 3192	비 고	
힘 Web	규 정 없 음	H 400미만		2,0이하	
		H 400이상 H 600미만		2,5이하	
		H 600이상		3,0이하	
직 각 도 Out of Squart(T)	높이 300 이하 또는 높이 300 초과	변B×1,2%이하 단, 최소치는 2,0mm	높이 300 이하 또는 높이 300 초과	변B×1,0%이하 단, 최소치는 1,5mm  변B×1,2%이하 단, 최소치는 1,5mm	
		변B×1,5%이하 단, 최소치는 2,0mm			
절 단 면 직 각 도 Ends Out of Square	변 또는 높이의 1.6% 이하 단, 허용차의 최소치는 3,0mm		변 또는 높이의 1.6% 이하 단, 허용차의 최소치는 3,0mm		
직 진 도	높이 300 이하	길 이 의 0,20% 이하	높이 300 이하	길이(m) × 1,5mm이하	
	높이 300 초과	길 이 의 0,10% 이하	높이 300 초과	길이(m) × 1,0mm이하	
길 이 Length	7m 이하	+40 -0	7m 이하	+40 -0	
	7m 초과	길이 1m 또는 그 단수가 증가할때 마다 상기 +축 허용차에 5mm를 더한다.	7m 초과	길이 1m 또는 그 단수가 증가할때 마다 상기 +축 허용차에 5mm를 더한다.	
중 량 Weight	±5%	두께 10미만	±5%	두께 10미만	
	±5%	두께 10초과	±4%	두께 10초과	

## H형강 치수 허용오차 *Dimension Tolerance*

항목	규격	KS D 3502	JIS G 3192	비 고		
높이 (H) Depth	H 400미만	±3.0	H 400미만	±2.0		
	400이상 600미만	±4.0	H 400미만	±3.0		
	600이상	±5.0	H 600미만	±4.0		
변 (B) Flange	ALL SIZES	±3.0	B 100미만	±2.0		
			1000이상 200미만	±2.5		
			2000이상	±3.0		
두께(t) Thic- kness	t <sub>1</sub>	16미만	±1.0	16미만	±0.7	
		16이상 25미만	±1.5	16이상 25미만	±1.0	
		25이상 40미만	±2.0	25이상 40미만	±1.5	
		40이상	±2.5	40이상	±2.0	
	t <sub>2</sub>	16미만	±1.5	16미만	±1.0	
		16이상 25미만	±2.0	16이상 25미만	±1.5	
		25이상 40미만	±2.5	25이상 40미만	±1.7	
		40이상	±3.0	40이상	±2.0	
중심편차 (S)	H 300이하 또는 B 2000이하	±3.0	H 300이하 또는 B 2000이하	±2.5		
	Web off Center	H 300초과 또는 B 200초과	H 300초과 또는 B 200초과	±3.5		
$S = \frac{b_1 - b_2}{2}$						

# 일반구조용강의 치수 및 무게 허용오차

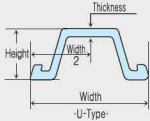
ㄱ형강, ㄷ형강, I형강 (Angles, Channels, I-Beams)

구 분		허 용 차	비 고	
변 (H 또는 B)	50미만	±1.5		
	50이상 100미만	±2.0		
	100이상 200미만	±3.0		
	200이상	±4.0		
높이 (H)	100미만	±1.5		
	100이상 200미만	±2.0		
	200이상 400미만	±3.0		
	400이상	±4.0		
두께 (t1, t2, t3)	변H(ㄷ형강에 대하여는 B)	6.3미만	±0.6	
	6.30이상 10미만	±0.7		
	또는 높이	10이상 16미만	±0.8	
	130미만 16이상	±1.0		
	변H	6.3미만	±0.7	
	(T형강에 대하여는 B)	6.30이상 10미만	±0.8	
또는 높이	100이상 16미만	±1.0		
160이상 25미만	±1.2			
130미만 250이상	±1.5			
길이 (length)	7m이하	+ 40 0		
	7m를 초과하는 것	길이 1m 또는 그 단수가 증가할 때 마다 상기(+)쪽 허용차에 5mm를 가산한다		
직각도 (T)	I형강	변B의 2.0% 이하		
	형강 및 T형강을 제외한 형강	변B의 2.5% 이하		
직진도	형강 및 T형강	길이의 0.20% 이하	상하, 좌우의 큰 굴곡에 적용한다.	
	형강 및 T형강을 제외한 형강	길이의 0.30% 이하		
중심의 편차 (S)	변B가 300이하	T형강	±3.0	

## 치수 허용오차 *Dimension Tolerance*

### 3. 강널말뚝 (Steel Sheet Pile)

(KS F 4604)

구 분		허용차	비 고
폭 Width		+10 -5	
높이 Height		± 4.0%	
두께 Thickness	10미만	± 1.0%	
	10이상 16미만	± 1.2%	
	16이상	± 1.5%	
길이 Length		+unlimited 0	

### 4. 환봉 (Round Bar)

(KS D 3752)

구 분		허용차	비 고
직경 Diameter	16미만	± 0.4%	★직경의 변동은 전체 지름의 내성 범위에 70%가 되지 않는다
	16이상 28미만	± 0.5%	
	28이상	± 1.8%	
무게 Weight	10미만	± 7%	
	10이상 16미만	± 5%	
	16이상 28미만	± 4%	
	28이상	± 3.5%	
길이 Length	7m 이하	± 40 0	
	7m 초과	1m또는 그의 비율로 증가할시 위의 내성에 5mm씩 더해진다	

### 5. 이형철근 (Deformed Bars for Concrete Reinforcement)

(KS D 3504)

구 분	허용차		비 고
	Single Piece	One Set	
무게 Weight	D10미만 D10 이상 D16미만 D16 이상 D29미만 D29 이상~	+규정하지 않음	
		± 8%	± 7%
		± 6%	± 5%
		± 5%	± 4%
		± 4%	± 3.5%
길이 Length	7m 미만	± 40 0	
	7m 초과	5mm는 내성이 길이의 증가에 비례하게 늘어나며, 최대치는 120mm로 제한된다	

## 철강 중량 계산공식

철 판	1. 두께 × 폭 (mm) × 길이 (mm) × 0.00000785 2. 두께 × 폭 (ft) × 길이 × 0.7292
무늬강판	$\frac{(\text{두께} \times 7.85 + 1.67) \times \text{가로 (m)} \times \text{세로 (m)}}{4}$ 자리에서 오사오입
H 형 강	$(t_1 \times (H - 2t_2)) + 2Bt_2 \times \frac{1}{100} \times 0.785$
C 형 강	$(H + 2B + 2C) - (t \times 6.574) \times 0.785 \times \frac{t}{100}$
ㄱ 형 강	$(T(H + B - T) + 0.215(n^2 - 2y^2)) \times 0.007854$
ㄷ 형 강	$H \times T^1 \times T^2 \times 2(B - T^1) + 0.349(R^1 - R^2)$
평 철	폭 (m/m) × 두께 (m/m) × 0.00785
원 형 강	$(\text{직경})^2 \times 0.7854 \times 0.00785$
배관용 강관	외경 - 두께 × 두께 × 0.02466 × 길이
구조용 강관	$3.287 \times \text{두께} - (\text{가로} + \text{세로}) \times \text{두께} \times 0.0157$
철판망	철판의 단위중량/연신율 ((SWM/2)/W)