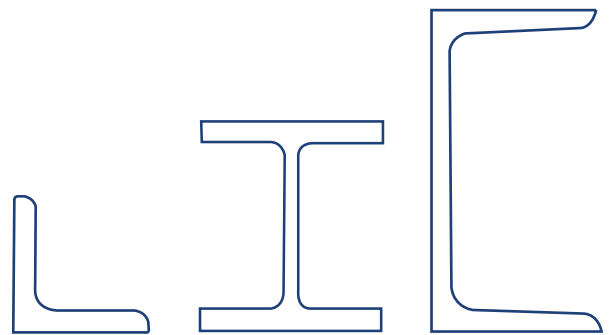


H Structure & Profile

(Stainless Steel)



DIMENSION & WEIGHT STRUCTURAL STEEL

Plate

Table 1 Of 2

Width x Length (in mm)	1219 x 2438	1219 x 6096	1524 x 3048	1524 x 6096	1524 x 9144	1524 x 12192	1829 x 6096	1829 x 12192
(in feet)	4' x 8'	4' x 20'	5' x 10'	5' x 20'	5' x 30'	5' x 40'	6' x 20'	6' x 40'
(in inches)	48 x 96	48 x 240	60 x 120	60 x 240	60 x 360	60 x 480	72 x 240	72 x 480
Thickness (in mm)								
8	187	467	292	583	875	1,167	700	1,400
9	210	525	328	656	985	1,313	788	1,575
10	233	583	365	729	1,094	1,459	875	1,750
12	280	700	438	875	1,313	1,750	1,050	2,101
12.7	296	741	463	926	1,389	1,852	1,112	2,223
14	327	817	510	1,021	1,532	2,042	1,225	2,451
15	350	875	547	1,094	1,641	2,188	1,313	2,626
16	373	933	584	1,167	1,750	2,334	1,400	2,801
18	420	1,050	656	1,313	1,969	2,625	1,575	3,151
19	443	1,108	693	1,386	2,078	2,771	1,663	3,326
20	467	1,167	729	1,459	2,188	2,917	1,751	3,501
22	513	1,283	802	1,604	2,407	3,209	1,926	3,851
24	560	1,400	875	1,750	2,625	3,501	2,101	4,201
25	583	1,458	912	1,823	2,735	3,646	2,188	4,376
25.4	593	1,482	926	1,852	2,779	3,705	2,223	4,446
26	607	1,517	940	1,896	2,844	3,792	2,276	4,551
28	653	1,633	1,021	2,042	3,063	4,084	2,451	4,901
30	700	1,750	1,094	2,188	3,282	4,376	2,626	5,251
32	747	1,867	1,167	2,334	3,501	4,668	2,801	5,602
36	840	2,100	1,313	2,625	3,938	5,251	3,151	6,302
38	887	2,223	1,386	2,771	4,157	5,543	3,326	6,652
40	933	2,333	1,459	2,917	4,376	5,834	3,501	7,001
45	1,050	2,625	1,641	3,282	4,923	6,564	3,938	7,877
50	1,217	2,917	1,823	3,646	5,470	7,293	4,376	8,752
55	1,283	3,209	2,006	4,011	6,017	8,022	4,814	9,628
60	1,400	3,500	2,188	4,376	6,564	8,752	5,251	10,503
65	1,516	3,792	2,370	4,740	7,111	9,481	5,689	11,378
70	1,633	4,083	2,553	5,105	7,658	10,210	6,127	12,253
75	1,750	4,375	2,735	5,470	8,204	10,939	6,565	13,129
80	1,866	4,667	2,917	5,834	8,751	11,669	7,002	14,004
90	1,983	4,958	3,099	6,199	9,298	12,398	7,440	14,879
95	2,100	5,250	3,282	6,564	9,845	13,127	7,877	15,754
98	2,217	5,542	3,464	6,928	10,392	13,856	8,315	16,630
100	233	5,833	3,646	7,293	10,939	14,586	8,753	17,505

Calculated considering specific gravity of steel as 7.85 kg/mm², and dimension in mm
Not Available Sizes

- Contact Us
- Certificate

- A. Pipe (Carbon Steel)
- B. Pipe (Stainless Steel)
- C. Flanges
- D. Fitting

- E. Buttwelding Fitting (Carbon Steel)
- F. Buttwelding Fitting (Stainless Steel)
- G. Valve
- H. Structure & Profile

DIMENSION & WEIGHT STRUCTURAL STEEL

Plate

Table 2 Of 2

Width x Length (in mm)	2133 x 6096	2133 x 12192	2348 x 6096	2348 x 12192	2743 x 6096	2743 x 12192	3048 x 6096	3048 x 12192	3353 x 6096	3353 x 12192
(in feet)	7' x 20'	7' x 40'	8' x 20'	8' x 40'	9' x 20'	9' x 40'	10' x 20'	10' x 40'	11' x 20'	11' x 40'
(in inches)	84 x 240	84 x 480	96 x 240	96 x 480	108 x 240	120 x 480	120 x 240	120 x 480	132 x 240	132 x 480
Thickness (in mm)										
8	817	1,634	933	1,867	1,051	2,100	1,167	2,334	1,284	2,567
9	919	1,837	1,050	2,100	1,182	2,364	1,313	2,625	1,444	2,888
10	1,201	2,042	1,167	2,333	1,313	2,625	1,459	2,917	1,605	3,209
12	1,225	2,450	1,400	2,800	1,575	3,150	1,750	3,501	1,925	3,851
12.7	1,296	2,593	1,482	2,963	1,667	3,334	1,852	3,705	2,038	4,076
14	1,429	2,858	1,634	3,267	1,838	3,675	2,042	4,084	2,246	4,493
15	1,532	3,062	1,750	3,500	1,969	3,938	2,188	4,376	2,407	4,814
16	1,634	3,266	1,867	3,734	2,100	4,201	2,334	4,667	2,567	5,134
18	1,837	3,675	2,100	4,200	2,364	4,725	2,625	5,251	2,888	5,776
19	1,939	3,879	2,217	4,433	2,494	4,988	2,771	5,543	3,049	6,097
20	2,041	4,083	2,333	4,667	2,625	5,250	2,917	5,834	3,209	6,418
22	2,246	4,491	2,567	5,133	2,888	5,776	3,209	6,418	3,530	7,060
24	2,450	4,900	2,800	5,600	3,150	6,301	3,501	7,001	3,851	7,702
25	2,552	5,104	2,917	5,833	3,282	6,563	3,646	7,293	4,011	8,023
25.4	2,593	5,185	2,963	5,927	3,334	6,668	3,705	7,410	4,076	8,151
26	2,654	5,308	3,033	6,067	3,413	6,826	3,792	7,585	4,172	8,344
28	2,858	5,716	3,267	6,534	3,676	7,351	4,084	8,168	4,493	8,985
30	3,062	6,124	3,500	7,000	3,938	7,876	4,376	8,751	4,814	9,627
32	3,266	6,533	3,733	7,467	4,200	8,401	4,667	9,335	5,134	10,269
36	3,675	7,349	4,200	8,400	4,725	9,451	5,251	10,502	5,776	11,553
38	3,879	7,757	4,433	8,867	4,988	9,976	5,543	11,085	6,097	12,194
40	4,083	8,166	4,667	9,334	5,250	9,334	5,834	11,669	6,418	12,836
45	4,593	9,186	5,250	10,500	5,907	11,814	6,564	13,127	7,220	14,441
50	5,104	10,207	5,833	11,667	6,563	13,126	7,293	14,586	8,023	16,045
55	5,614	11,228	6,417	12,833	7,219	14,439	8,022	16,044	8,825	17,650
60	6,124	12,249	7,000	14,000	7,876	15,751	8,751	17,503	9,627	19,254
65	6,635	13,269	7,583	15,167	8,532	17,064	9,481	18,962	10,429	20,859
70	7,145	14,290	8,167	16,333	9,188	18,377	10,210	20,420	11,232	22,463
75	7,655	15,311	8,750	17,500	9,845	19,689	10,939	21,879	12,034	24,068
80	8,166	16,331	9,333	18,667	10,501	21,002	11,669	23,337	12,836	25,672
85	8,676	17,352	9,917	19,833	11,157	22,315	12,398	24,796	13,639	27,277
90	9,186	18,373	10,500	21,000	11,814	23,627	13,127	26,254	14,441	28,882
95	9,697	19,394	11,083	22,167	12,470	24,940	13,856	27,713	15,243	30,486
100	10,207	20,414	11,667	23,333	13,126	26,252	14,586	29,172	16,045	32,091

Calculated considering specific gravity of steel as 7.85 kg/mm², and dimension in mm
Not Available Sizes

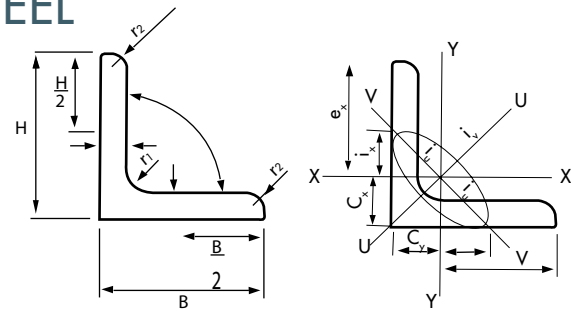
- Contact Us
- Certificate

- A. Pipe (Carbon Steel)
- B. Pipe (Stainless Steel)
- C. Flanges
- D. Fitting

- E. Buttwelding Fitting (Carbon Steel)
- F. Buttwelding Fitting (Stainless Steel)
- G. Valve
- H. Structure & Profile

DIMENSION & WEIGHT STRUCTURAL STEEL

Equal Angle



STANDARD SECTIONAL DIMENSION				SECTION AREA	UNIT WEIGHT	INFORMATIVE REFERENCE							
						CENTER OF GRAVITY		GEOMETRICAL MOMENT OF INERTIA		RADIUS OF GYRATION OF AREA			MODULUS OF SECTION
H X B	t	r ₁	r ₂	A		C _x = C _y	I _x = I _y	Max I _u	Min I _v	I _x = I _y	Max I _u	Min I _v	Z _x = Z _y
mm x mm	mm	mm	mm	mm ²	Kg/m	cm	cm ⁴	cm ⁴	cm ⁴	cm	cm	cm	cm ³
25 x 25	3	4	2	1.427	1.12	0.72	0.797	1.26	0.332	0.74	1.40	0.480	0.448
30 x 30	3	4	2	1.727	1.36	0.84	1.420	2.26	0.590	0.90	1.140	0.580	0.661
40 x 40	3	4.5	2	2.336	1.83	1.09	3.530	5.60	1.460	1.50	1.550	0.790	1.210
40 x 40	4	4.5	2	2.336	1.83	1.09	3.530	5.60	1.60	1.23	1.550	0.790	1.210
40 x 40	5	4.5	3	3.755	2.95	1.17	5.420	8.59	2.25	1.00	1.510	0.770	1.910
45 x 45	5	6.5	3	4.302	3.38	1.28	7.910	12.50	2.90	1.360	1.710	0.870	2.460
45 x 45	4	6.5	3	3.492	2.74	1.24	6.500	10.30	2.700	1.360	1.720	0.880	2.000
50 x 50	4	6.5	3	3.892	3.06	1.37	9.060	14.40	2.760	1.530	1.920	0.980	2.490
50 x 50	5	6.5	3	4.802	3.77	1.41	11.100	17.50	4.580	1.520	1.910	0.980	3.080
50 x 50	6	6.5	4.5	5.644	4.43	1.44	12.600	21.30	5.230	1.500	1.880	0.960	3.550
60 x 60	4	6.5	3	4.692	3.68	1.61	16.000	31.40	6.620	1.850	2.330	1.190	3.660
60 x 60	5	6.5	3	5.802	4.55	1.66	19.000	37.20	8.090	1.840	2.320	1.180	4.520
60 x 60	6	8	4	6.910	5.40	1.70	22.700	46.20	9.420	1.820	2.290	1.170	5.280
65 x 65	5	8.5	3	6.367	5.00	1.77	25.900	40.10	10.500	1.990	2.510	1.280	5.350
65 x 65	6	8.5	4	7.527	5.91	1.81	29.400	46.60	12.200	1.980	2.490	1.270	6.260
65 x 65	8	8.5	6	9.761	7.66	1.88	35.800	58.30	15.300	1.940	2.440	1.250	7.960
70 x 70	6	8.5	4	8.127	6.38	1.93	37.100	58.90	15.300	2.140	2.6*9	1.370	7.330
75 x 75	6	8.5	4	8.727	6.85	2.06	46.100	73.20	19.000	2.300	2.900	1.480	8.470
75 x 75	9	8.5	6	12.690	9.96	2.11	64.400	102.00	26.700	2.250	2.840	1.450	21.100
75 x 75	12	8.5	6	16.560	13.00	2.29	81.900	129.00	34.500	2.220	2.790	1.440	15.700
80 x 80	6	8.5	4	9.230	7.32	2.18	56.400	89.60	23.200	2.460	3.100	1.580	9.700
90 x 90	6	10	5	10.550	8.11	2.42	80.700	128.00	33.400	2.770	3.480	1.780	12.300
90 x 90	7	10	5	12.220	9.59	2.46	93.000	148.00	38.300	2.760	3.480	1.770	14.200
90 x 90	10	10	7	17.000	13.90	2.57	125.000	199.00	51.700	2.710	3.420	1.740	19.500
*90 x 90	13	10	7	21.700	17.00	2.69	156.000	248.00	65.300	2.680	3.380	1.730	24.800
100 x 100	7	10	5	12.620	10.70	2.71	129.000	205.00	53.200	3.080	3.880	1.980	17.700
100 x 100	13	10	7	24.300	19.10	2.94	220.000	348.00	91.100	3.000	3.780	1.940	31.100
*100 x 100	10	10	7	19.000	14.90	2.82	175.000	278.00	72.000	3.040	3.830	1.950	24.400
120 x 120	8	12	6	18.760	14.70	3.24	258.000	410.00	106.000	3.710	4.670	2.380	29.500
*120 x 120	11	13	6.5	25.370	19.90	3.30	340.000	541.00	140.000	3.660	4.620	2.350	39.360
*120 x 120	12	13	6.5	27.540	21.60	3.40	367.000	583.00	151.000	3.650	4.600	2.350	42.680
*130 x 130	9	12	6	22.740	17.90	3.53	366.000	583.00	150.000	1.010	5.060	2.570	38.700
130 x 130	12	12.5	6.5	36.750	28.80	3.76	568.000	902.00	234.000	3.930	4.950	2.530	41.600
*130 x 130	12	12	6.5	29.760	23.40	3.64	467.000	748.00	192.000	3.960	5.000	2.540	49.900
*150 x 150	14	14	7	34.770	27.30	4.14	740.000	1,180.00	304.000	4.610	5.820	2.960	68.100
*150 x 150	14	14	10	42.740	33.60	4.24	888.000	1,410.00	365.000	4.560	5.750	2.920	82.600
150 x 150	19	14	10	53.380	41.90	4.40	1,090.000	1,730.00	451.000	4.520	5.690	2.910	103.000
150 x 150	12	15	11	40.520	31.80	4.73	1,170.000	1,860.00	480.000	5.380	6.780	3.440	91.800
*175 x 175	15	15	11	50.210	39.40	4.85	1,440.000	2,290.00	589.000	5.350	6.750	3.480	114.000
*200 x 200	17	12	12	57.750	45.30	5.46	2,180.000	3,470.00	891.000	6.140	7.750	3.930	150.000
*200 x 200	20	17	12	76.000	59.70	5.67	2,820.000	4,490.00	1,160.000	6.090	7.680	3.900	197.000
200 x 200	25	17	12	93.750	73.60	5.86	3,420.000	5,420.00	1,410.000	6.040	7.610	3.880	242.000
250 x 250	35	24	18	162.600	128.00	7.45	9,110.000	14,400.00	3,790.000	7.490	9.420	4.830	519.000
*250 x 250	25	24	12	119.400	93.70	7.10	6,950.000	11,000.00	2,860.000	7.630	9.620	4.890	388.000

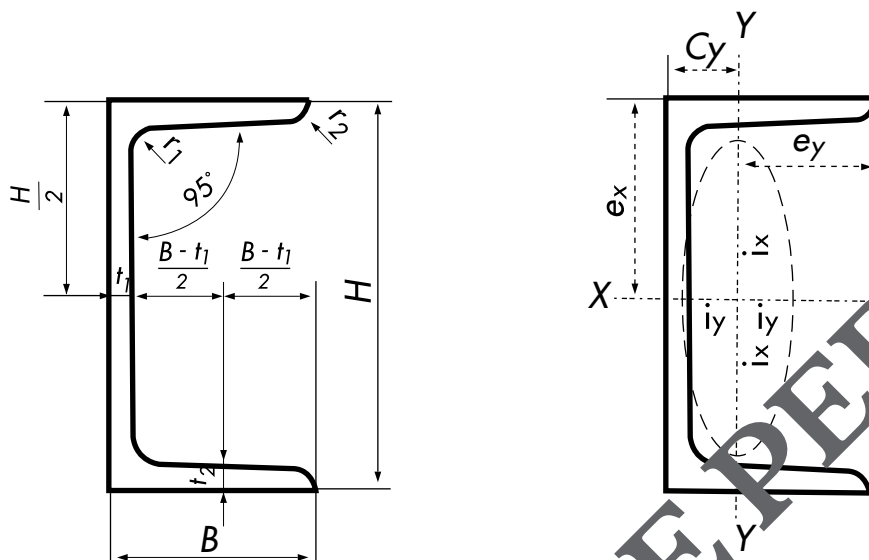
- Contact Us
- Certificate

- A. Pipe (Carbon Steel)
- B. Pipe (Stainless Steel)
- C. Flanges
- D. Fitting

- E. Butt welding Fitting (Carbon Steel)
- F. Butt welding Fitting (Stainless Steel)
- G. Valve
- H. Structure & Profile

DIMENSION & WEIGHT STRUCTURAL STEEL

Channel Bar



STANDARD SECTIONAL DIMENSION				UNIT MASS kg/m	CENTRE OF GRAVITY Cy	GEOMETRICAL MOMENT OF INERTIA		RADIUS OF GYRATION		MODULUS OF SECTION	
A x B	t ₁	t ₂	Area cm ²			I _x cm ⁴	I _y cm ⁴	i _x cm	i _y cm	Z _x cm ³	Z _y cm ³
mm x mm	mm	mm	cm ²	kg/m	cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
75 x 40	5	7	8.82	6.92	1.27	75.9	12.4	2.93	1.19	20.2	4.54
100 x 50	5	7.5	11.92	9.36	1.55	189	26.9	3.98	1.50	37.8	7.82
125 x 65	6	8	17.11	13.40	1.94	425	65.5	4.99	1.96	68.0	14.40
*150 x 75	6.5	10	23.71	18.60	2.31	864	122.0	6.04	2.27	115.0	23.60
150 x 75	9	9.5	30.59	24.00	2.31	1050	147.0	5.86	2.19	140.0	28.30
*180 x 90	7	10.5	27.20	21.40	2.15	1380	137.0	7.13	2.24	150.0	25.50
200 x 90	7	10	26.92	21.10	1.85	1620	113.0	7.77	2.04	162.0	21.80
*200 x 90	7.5	11	31.33	24.60	2.24	1950	177.0	7.89	2.38	195.0	30.80
250 x 100	10	13.5	38.65	30.30	2.77	2490	286.0	8.03	2.72	249.0	45.90
300 x 90	12	13	44.07	34.60	2.43	4180	306.0	9.74	2.64	335.0	46.50
250 x 120	14.5	14.5	51.17	40.20	2.39	4690	342.0	9.57	2.58	375.0	51.70
300 x 100	10	15.5	55.17	43.80	2.33	7400	373.0	11.50	2.54	494.0	56.00
300 x 90	12	16	61.90	48.60	2.25	7870	391.0	11.30	2.51	525.0	57.90
380 x 100	10.5	16	69.39	54.50	2.41	14500	557.0	14.50	2.83	762.0	73.30
380 x 100	13	16.5	78.96	62.00	2.29	15600	584.0	14.10	2.72	822.0	75.80
380 x 100	13	20	85.71	67.30	2.50	17600	671.0	14.30	2.80	924.0	89.50

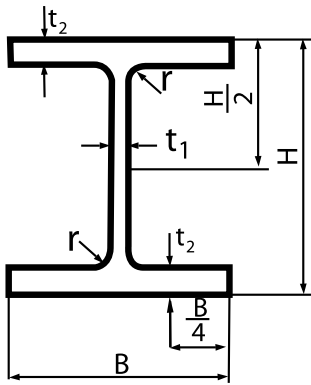
- Contact Us
- Certificate

- A. Pipe (Carbon Steel)
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- C. Flanges
- D. Fitting

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- F. Buttwelding Fitting (Stainless Steel)
- G. Valve
- H. Structure & Profile

DIMENSION & WEIGHT STRUCTURAL STEEL

Wide Flange Shape



Geometrical moment of inertia

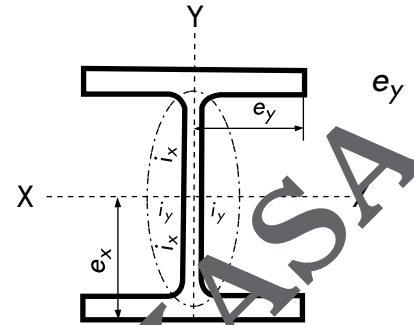
Radius of gyration of area
Modulus of Section

(A = sectional area)

$$I = Ai^2$$

$$I = \sqrt{I/A}$$

$$z = I / e$$



STANDARD SECTIONAL DIMENSION			Area	UNIT MASS	CENTER OF GRAVITY	GEOMETRICAL MOMENT OF INERTIA	RADIUS OF GYRATION	MODULUS OF SECTION			
A x B	t ₁	t ₂									
mm x mm	mm	mm	cm ²	kg/m	cm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
75 x 40	5	7	8.82	6.92	1.27	75.9	12.4	2.93	1.19	20.2	4.54
100 x 50	5	7.5	11.92	9.36	1.55	189	26.9	3.98	1.50	37.8	7.82
125 x 65	6	8	17.15	13.27	1.94	425	65.5	4.99	1.96	68.0	14.40
*150 x 75	6.5	10	23.71	18.60	2.31	864	122.0	6.04	2.27	115.0	23.60
150 x 75	9	12.5	25.59	24.00	2.31	1050	147.0	5.86	2.19	140.0	28.30
*180 x 75	7	10.5	27.39	21.40	2.15	1380	137.0	7.13	2.24	150.0	25.50
200 x 70	7	10	26.22	21.10	1.85	1620	113.0	7.77	2.04	162.0	21.80
*200 x 80	7.5	11	33.33	24.60	2.24	1950	177.0	7.89	2.38	195.0	30.80
200 x 90	8	13.5	38.35	30.30	2.77	2490	286.0	8.03	2.72	249.0	45.90
250 x 90	9	14.5	44.07	34.60	2.43	4180	306.0	9.74	2.64	335.0	46.50
250 x 90	11	14.5	51.17	40.20	2.39	4690	342.0	9.57	2.58	375.0	51.70
300 x 90	10	15.5	55.17	43.80	2.33	7400	373.0	11.50	2.54	494.0	56.00
300 x 90	12	16	61.90	48.60	2.25	7870	391.0	11.30	2.51	525.0	57.90
380 x 100	10.5	16	69.39	54.50	2.41	14500	557.0	14.50	2.83	762.0	73.30
380 x 100	13	16.5	78.96	62.00	2.29	15600	584.0	14.10	2.72	822.0	75.80
380 x 100	13	20	85.71	67.30	2.50	17600	671.0	14.30	2.80	924.0	89.50

* Dimensions not mentioned in table above will be supplied as welded condition

- Contact Us
- Certificate

- A. Pipe (Carbon Steel)
- B. Pipe (Stainless Steel)
- C. Flanges
- D. Fitting

- E. Buttwelding Fitting (Carbon Steel)
- F. Buttwelding Fitting (Stainless Steel)
- G. Valve
- H. Structure & Profile