

**imc**

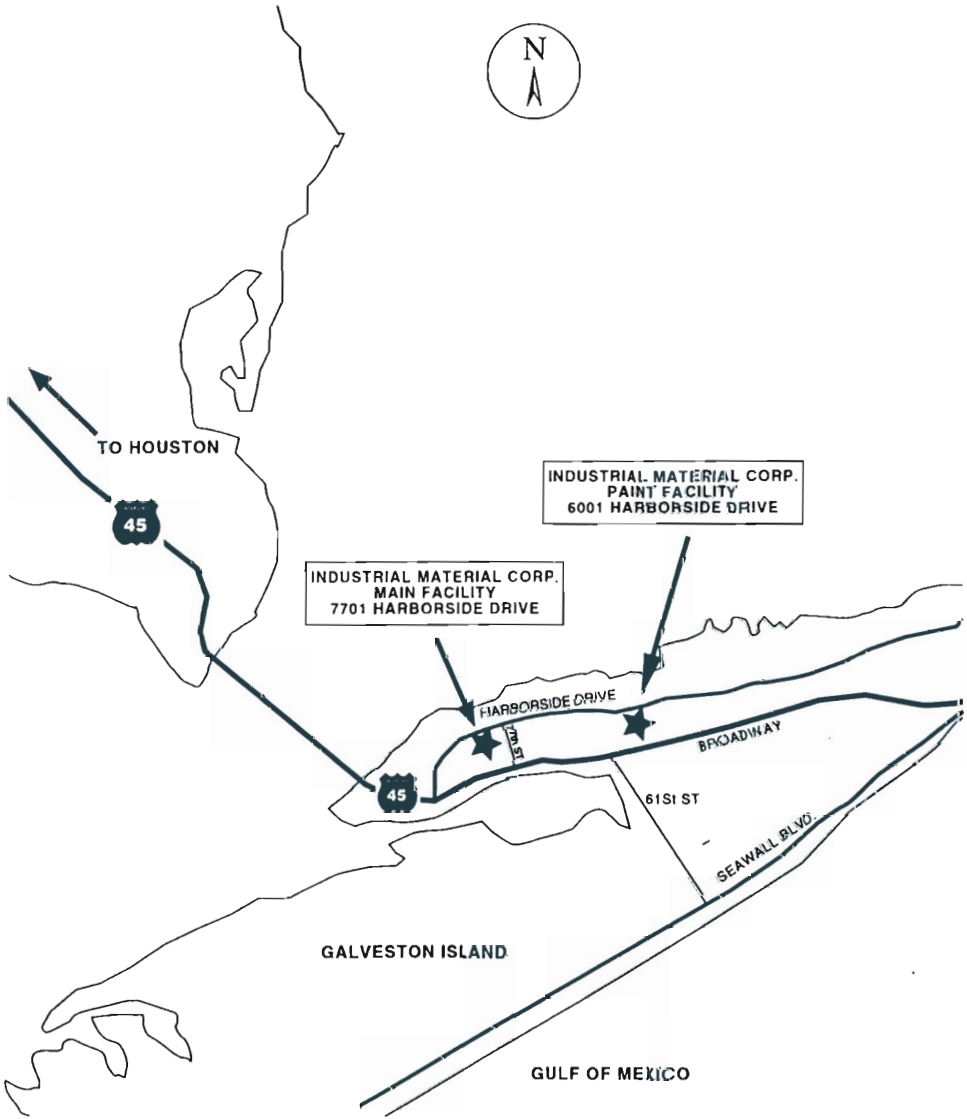
**Steel  
and  
General  
Reference**

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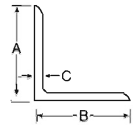
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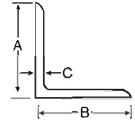
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**BAR SIZE ANGLE (L) ASTM A-36**



A Size In Inches	B Size In Inches	C Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length	
				20'	40'
1/2 x	1/2 x	1/8	.38	7.6	
3/4 x	3/4 x	1/8	.59	11.8	
1 x	1 x	1/8	.80	16.0	
		3/16	1.16	23.2	
		1/4	1.49	29.8	
1 1/4 x	1 1/4 x	1/8	1.01	20.2	
		3/16	1.48	29.6	
		1/4	1.92	38.4	
1 1/2 x	1 1/2 x	1/8	1.23	24.6	
		3/16	1.80	36.0	
		1/4	2.34	46.8	
1 3/4 x	1 1/4 x	1/8	1.23	24.6	
1 3/4 x	1 3/4 x	1/8	1.44	28.8	
		3/16	2.12	42.4	
		1/4	2.77	55.4	
2 x	1 1/2 x	1/8	1.44	28.8	
		3/16	2.12	42.4	
		1/4	2.77	55.4	
2 x	2 x	1/8	1.65	33.0	66.0
		3/16	2.44	48.8	97.6
		1/4	3.19	63.8	127.6
		5/16	3.92	78.4	156.8
		3/8	4.70	94.0	188.0
2 1/2 x	1 1/2 x	3/16	2.44	48.8	97.6
		1/4	3.19	63.8	127.6
2 1/2 x	2 x	3/16	2.75	55.0	110.0
		1/4	3.62	72.4	144.8
		5/16	4.50	90.0	180.0
		3/8	5.30	106.0	212.0
2 1/2 x	2 1/2	3/16	3.07	61.4	122.8
		1/4	4.10	82.0	164.0
		5/16	5.00	100.0	200.0
		3/8	5.90	118.0	236.0
		1/2	7.70	154.0	308.0

**STRUCTURAL ANGLE (L) ASTM A-36**

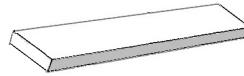


A Size In Inches	B Size In Inches	C Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs.	
				Stock Length 20'	40'
3 x	2 x	3/16	3.07	61.4	123
		1/4	4.10	82	164
		5/16	5.00	100	200
		3/8	5.90	118	236
3 x	2 1/2 x	3/16	3.30	67.8	136
		1/4	4.50	90	180
		5/16	5.60	112	224
		3/8	6.60	132	264
3 x	3 x	3/16	3.70	74	148
		1/4	4.90	98	196
		5/16	6.10	122	244
		3/8	7.20	144	288
		1/2	9.40	188	376
3 1/2 x	2 1/2 x	1/4	4.90	98	196
		5/16	6.10	122	244
		3/8	7.20	144	288
3 1/2 x	3 x	1/4	5.40	108	216
		5/16	6.60	132	264
		3/8	7.90	158	316
		1/2	10.20	204	408
3 1/2 x	3 1/2 x	1/4	5.80	116	232
		5/16	7.20	144	288
		3/8	8.50	170	340
		1/2	11.10	222	444
4 x	3 x	1/4	5.80	116	232
		5/16	7.20	144	288
		3/8	8.50	170	340
		1/2	11.10	222	444
4 x	3 1/2 x	1/4	6.20	124	248
		5/16	7.70	154	308
		3/8	9.10	182	364
		1/2	11.90	238	476
4 x	4 x	1/4	6.60	132	264
		5/16	8.20	164	328
		3/8	9.80	196	392
		1/2	12.80	256	512

**STRUCTURAL ANGLE (L) ASTM A-36 - Continued**

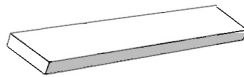
A Size In Inches	B Size In Inches	C Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs.	
				Stock Length 20'	40'
5 x	3 x	1/4	6.6	132	264
		5/16	8.2	164	328
		3/8	9.8	196	392
		1/2	12.8	256	512
5 x	3 1/2 x	1/4	7.0	140	280
		5/16	8.7	174	348
		3/8	10.4	208	416
		1/2	13.6	272	544
5 x	5 x	5/16	10.3	206	412
		3/8	12.3	246	492
		1/2	16.2	324	648
6 x	3 1/2 x	5/16	9.8	196	392
		3/8	11.7	234	468
		1/2	15.3	306	612
6 x	4 x	5/16	10.3	206	412
		3/8	12.3	246	492
		1/2	16.2	324	648
		5/8	20.0	400	800
		3/4	23.6	472	944
6 x	6 x	5/16	12.4	248	496
		3/8	14.9	298	596
		1/2	19.6	392	784
		5/8	24.2	484	968
		3/4	28.7	574	1148
		1	37.4	748	1496
7 x	4 x	3/8	13.6	272	544
		1/2	17.9	358	716
		3/4	26.2	524	1048
8 x	4 x	1/2	19.6	392	784
		3/4	28.7	574	1148
8 x	6 x	1/2	23.0	460	920
		3/4	33.8	676	1352
		1	44.2	884	1768
8 x	8 x	1/2	26.4	528	1056
		5/8	32.7	654	1308
		3/4	38.9	778	1556
		1	51.0	1020	2040

**HOT ROLLED STRIP ASTM A-36**



Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'	Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'
1/8 x	1/2	.2127	4	3/16 x	1/2	.319	6
	3/4	.319	6		3/4	.479	10
	1	.425	9		1	.638	13
	1 1/4	.532	11		1 1/4	.798	16
	1 1/2	.638	13		1 1/2	.957	19
	2	.851	17		2	1.276	26
	2 1/2	1.064	21		2 1/2	1.595	32
	3	1.276	26		3	1.914	38
	3 1/2	1.489	30		4	2.552	51
	4	1.702	34		5	3.191	64
5	2.127	43	5 1/2	3.510	70		
6	2.552	51	6	3.829	77		
				8	5.105	102	

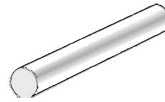
**FLATS ASTM A-36**



Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'	Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'
1/4 x	1/2	.4254	9	5/16 x	2	2.127	43
	3/4	.6381	13		2 1/2	2.659	53
	1	.8508	17		3	3.191	63
	1 1/4	1.064	21		3 1/2	3.722	74
	1 1/2	1.276	26		4	4.254	85
	2	1.700	34		4 1/2	4.786	96
	2 1/2	2.125	43		5	5.318	105
	3	2.552	51		6	6.381	128
	3 1/2	2.978	60		7	7.445	149
	4	3.403	68		8	8.508	170
	5	4.254	85		10	10.63	213
	6	5.105	102				
7	5.956	119	3/8 x	1	1.276	26	
8	6.806	136		1 1/4	1.595	32	
9	7.65	153		1 1/2	1.914	38	
10	8.5	170		2	2.552	51	
11	9.35	187		2 1/2	3.191	64	
12	10.2	204	3	3.829	77		

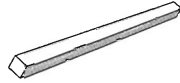
**FLATS ASTM A-36 - Continued**

Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'	Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'
3/8 x	3 1/2	4.46	89	3/4 x	1	2.55	51
	4	5.10	102		2	5.10	136
	4 1/2	5.74	115		2 1/2	6.38	128
	5	6.38	128		3	7.65	153
	6	7.65	153		4	10.21	204
	6 1/2	8.29	166		5	12.76	255
	7	8.93	179		6	15.31	306
	8	10.21	204		7	17.87	357
	9	11.48	230		8	20.42	408
	10	12.75	255		9	22.95	459
	11	14.03	281		10	25.50	510
	12	15.30	306		12	30.60	612
1/2 x	1	17.02	34	1 x	2	6.80	136
	1 1/4	2.12	43		3	10.21	204
	1 1/2	2.55	51		4	13.61	272
	2	3.40	68		4 1/2	15.31	306
	2 1/2	4.25	85		5	17.02	340
	3	5.10	102		6	20.42	408
	3 1/2	5.95	119		7	23.82	476
	4	6.80	136		8	27.23	545
	5	8.50	170		9	30.60	612
	6	10.21	204		10	34.00	680
	7	11.91	238		12	40.80	816
	8	13.61	272		1 1/4 x	2	8.50
9	15.30	306	3	12.76		255	
10	17.00	340	4	17.02		340	
11	18.70	374	5	21.27		425	
12	20.40	408	6	25.52		510	
			8	34.03		681	
5/8 x	1	2.12	43	1 1/2 x	2	10.21	204
	2	4.25	85		3	15.31	306
	2 1/2	5.31	106		4	20.42	408
	3	6.38	128		5	25.52	510
	4	8.50	170		6	30.63	613
	5	10.64	213		7	35.73	715
	6	12.76	255		8	40.84	817
	7	14.89	298		2 x	4	27.23
8	17.02	340	5	34.03		681	
			6	40.84		817	
			8	54.45		1089	



**HOT ROLLED ROUNDS ASTM A-36**

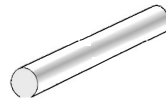
Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'
3/16	.094	1.88	3	24.03	480.6
1/4	.167	3.34	3 1/8	26.08	521.6
5/16	.216	5.22	3 1/4	28.21	564.2
3/8	.376	7.52	3 3/8	30.42	608.4
7/16	.511	10.22	3 1/2	32.71	654.2
1/2	.668	13.36	3 5/8	35.09	701.8
9/16	.845	16.90	3 3/4	37.55	751.0
5/8	1.04	20.86	3 7/8	40.10	802.0
3/4	1.50	30.04			
7/8	2.04	40.88	4	42.73	854.6
			4 1/4	48.23	964.6
1	2.67	53.40	4 1/2	54.08	1081.6
1 1/8	3.38	67.58	4 3/4	60.25	1205.0
1 1/4	4.17	83.46			
1 3/8	5.05	101.00	5	66.76	1335.2
1 1/2	6.01	120.20	5 1/4	73.60	1472.0
1 5/8	7.05	141.00	5 1/2	80.78	1615.6
1 3/4	8.18	163.60	5 3/4	88.29	1766.0
1 7/8	9.39	187.80			
			6	96.13	1922.6
2	10.68	213.60	6 1/4	104.31	2086.2
2 1/8	12.06	241.20	6 1/2	112.82	2256.4
2 1/4	13.52	270.40	6 3/4	121.78	2435.6
2 3/8	15.06	301.20			
2 1/2	16.69	333.80	7	130.85	2617.0
2 5/8	18.40	368.00	7 1/4	140.35	2807.2
2 3/4	20.20	404.00	7 1/2	150.21	3004.2
2 7/8	22.07	441.40	7 3/4	160.39	3207.8
			8	170.90	3418.0



**HOT ROLLED SQUARES ASTM A-36**

Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'
1/4	.21	4.26	2	13.60	272.0
3/8	.47	9.56	2 1/4	17.21	344.2
1/2	.85	17.00	2 1/2	21.25	425.0
5/8	1.33	26.56	2 3/4	25.71	514.2
3/4	1.91	38.26	3	30.60	612.0
7/8	2.60	52.06	4	54.40	1088.0
1	3.40	68.00	4 1/2	68.85	1377.0
1 1/8	4.30	86.06	5	85.00	1700.0
1 1/4	5.31	106.30	5 1/2	102.90	2058.0
1 3/8	6.43	128.60	6	122.40	2448.0
1 1/2	7.65	153.00			
1 5/8	8.98	179.60			
1 3/4	10.41	208.20			

**COLD FINISHED ROUNDS AISI 1018**

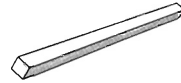


Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'
1/8	.042	.84	17/32	.754	15.08
5/32	.065	1.30	9/16	.845	16.90
3/16	.094	1.88	5/8	1.043	20.86
7/32	.128	2.56	11/16	1.262	25.25
1/4	.167	3.34	3/4	1.502	30.04
5/16	.261	5.22	13/16	1.763	35.26
11/32	.316	6.32	7/8	2.045	40.90
3/8	.376	7.52	15/16	2.347	46.94
13/32	.441	8.82	1	2.67	53.40
7/16	.511	10.22	1 1/16	3.01	60.20
15/32	.587	11.74	1 1/8	3.38	67.60
1/2	.668	13.36	1 3/16	3.77	75.40

**COLD FINISHED ROUNDS AISI 1018 - Continued**

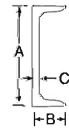
Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length 20'
1 5/16	4.60	92.00	3 7/8	40.10	802.00
1 3/8	5.05	101.00	3 15/16	41.40	828.00
1 7/16	5.52	110.40			
1 1/2	6.01	120.20	4	42.73	854.60
1 9/16	6.52	130.40	4 1/8	45.44	908.80
1 5/8	7.05	141.00	4 1/4	48.23	964.60
1 11/16	7.60	152.00	4 3/8	51.11	1022.20
1 3/4	8.18	163.60	4 7/16	52.58	1051.60
1 13/16	8.77	175.40	4 1/2	54.08	1081.60
1 15/16	10.02	200.40	4 5/8	57.12	1142.40
			4 3/4	60.25	1205.00
2	10.68	213.60	4 15/16	65.10	1302.00
2 1/16	11.36	227.20			
2 1/8	12.06	241.20	5	66.76	1335.20
2 3/16	12.78	255.60	5 1/8	70.14	1402.80
2 1/4	13.52	270.40	5 1/4	73.60	1472.00
2 5/16	14.28	285.60	5 1/2	80.78	1615.60
2 3/8	15.06	301.20	5 5/8	84.49	1689.80
2 7/16	15.87	317.40	5 3/4	88.29	1765.80
2 1/2	16.69	333.80	5 7/8	92.17	1843.40
2 9/16	17.53	350.60	5 15/16	94.14	1882.80
2 5/8	18.40	368.00			
2 11/16	19.29	385.80	6	96.13	1922.60
2 3/4	20.20	404.00	6 1/4	104.31	2086.20
2 7/8	22.07	441.40	6 1/2	112.82	2256.40
2 15/16	23.04	460.80	6 3/4	121.67	2433.40
3	24.03	480.60	7	130.85	2617.00
3 1/16	25.05	501.00	7 1/2	150.21	3004.20
3 1/8	26.08	521.60			
3 3/16	27.13	542.60	8	170.90	3418.00
3 1/4	28.21	564.20			
3 3/8	30.42	608.40	9	216.30	4326.00
3 7/16	31.55	631.00			
3 1/2	32.71	654.20	10	267.04	5340.80
3 5/8	35.09	701.80			
3 3/4	37.55	751.00	12	384.53	7690.60

**COLD FINISHED SQUARES AISI 1018**



Size In Inches	Wt. In Lbs. Per Ft.	Stock Length In Ft.	Size In Inches	Wt. In Lbs. Per Ft.	Stock Length In Ft.
1/8	.053	12	1 3/4	10.419	12
3/16	.120	12	1 7/8	11.95	12
1/4	.213	12	2	13.60	12
5/16	.332	12	2 1/8	15.35	12
3/8	.478	12	2 1/4	17.22	12
7/16	.651	12	2 3/8	19.18	12
1/2	.850	12	2 1/2	21.26	12
9/16	1.076	12	2 3/4	25.73	12
5/8	1.329	12	3	30.60	12
11/16	1.608	12	3 1/4	35.91	12
3/4	1.914	12	3 1/2	41.65	12
7/8	2.605	12	3 3/4	47.81	12
15/16	2.990	12	4	54.40	12
1	3.402	12	4 1/2	68.85	12
1 1/8	4.306	12	5	85.00	12
1 1/4	5.316	12	6	122.40	12
1 3/8	6.432	12			
1 3/8	6.432	12			
1 1/2	7.655	12			
1 5/8	8.984	12			

**AMERICAN STANDARD CHANNELS (C) ASTM A-36**

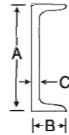


Size In Inches	Wt. In Lbs. Per Ft.	A Depth In Inches	B Flange Width In Inches	C Flange Thick. In Inches	Web Thick. In Inches	Est. Wt. In Lbs.	
						Stock Length 20'	Stock Length 40'
3 x	4.1	3	1 3/8	1/4	3/16	82	164
	5.0	3	1 1/2	1/4	1/4	100	200
	6.0	3	1 5/8	1/4	3/8	120	240
4 x	5.4	4	1 5/8	5/16	3/16	108	216
	7.25	4	1 3/4	5/16	5/16	145	290
5 x	6.7	5	1 3/4	5/16	3/16	134	268
	9.0	5	1 7/8	5/16	5/16	180	360

**AMERICAN STANDARD CHANNELS (C) ASTM A-36 - Continued**

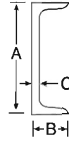
Size In Inches	Wt. In Lbs. Per Ft.	A Depth In Inches	B Flange Width In Inches	Flange Thick. In Inches	C Web Thick. In Inches	Est. Wt. In Lbs.	
						Stock Length 20'	40'
6 x	8.2	6	1 7/8	5/16	3/16	164	328
	10.5	6	2	5/16	5/16	210	420
	13.0	6	2 1/8	5/16	7/16	260	520
7 x	9.8	7	2 1/8	3/8	3/16	196	392
	12.25	7	2 1/4	3/8	5/16	245	490
	14.75	7	2 1/4	3/8	7/16	295	590
8 x	11.5	8	2 1/4	3/8	1/4	230	460
	13.75	8	2 3/8	3/8	5/16	275	550
	18.75	8	2 1/2	3/8	1/2	375	750
9 x	13.4	9	2 3/8	7/16	1/4	268	536
	15.0	9	2 1/2	7/16	5/16	300	600
	20.0	9	2 5/8	7/16	7/16	400	800
10 x	15.3	10	2 5/8	7/16	1/4	306	612
	20.0	10	2 3/4	7/16	3/8	400	800
	25.0	10	2 7/8	7/16	1/2	500	1000
	30.0	10	3	7/16	11/16	600	1200
12 x	20.7	12	3	1/2	5/16	414	828
	25.0	12	3	1/2	3/8	500	1000
	30.0	12	3 1/8	1/2	1/2	600	1200
15 x	33.9	15	3 3/8	5/8	3/8	678	1356
	40.0	15	3 1/2	5/8	1/2	800	1600
	50.0	15	3 3/4	5/8	11/16	1000	2000

**MISCELLANEOUS CHANNELS (MC) ASTM A-36**



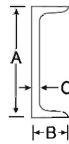
Size In Inches	Wt. In Lbs. Per Ft.	A		B		C		Est. Wt. In Lbs.	
		Depth In Inches	Flange Width In Inches	Flange Thick. In Inches	Web Thick. In Inches	Stock Length 20'	Stock Length 40'		
3 x	7.1	3	1 15/16		5/16	142	284		
4 x	13.8	4	2 1/2		1/2	276	552		
6 x	12.0	6	2 1/2	3/8	5/16	240	480		
	15.1	6	2 15/16	7/16	5/16	302	604		
	15.3	6	3 1/2	3/8	5/16	306	612		
	16.3	6	3	7/16	3/8	326	652		
	18.0	6	3 1/2	7/16	3/8	360	720		
7 x	19.8	7	3 7/16	3/8	7/16	396	792		
	22.7	7	3 5/8	3/8	1/2	454	908		
8 x	18.7	8	3	1/2	3/8	374	748		
	21.4	8	3 1/2	1/2	3/8	428	856		
	22.8	8	3 1/2	1/2	7/16	456	912		
9 x	25.4	9	3 1/2	1/2	7/16	508	1016		
10 x	22.0	10	3 1/2	1/2	5/16	440	880		
	25.0	10	3 1/2	1/2	7/16	500	1000		
12 x	31	12	3 5/8	11/16	3/8	620	1240		
	35	12	3 3/4	11/16	7/16	700	1400		
	40.0	12	3 7/8	11/16	9/16	800	1600		
	50.0	12	4 1/8	11/16	13/16	1000	2000		
13 x	31.8	13	4		3/8	636	1272		
	50	13	4 7/16		13/16	1000	2000		
18 x	42.74	18	4	5/8	7/16	854	1708		
	45.8	18	4	5/8	1/2	916	1832		
	58.0	18	4 1/4	5/8	11/16	1160	2320		

**JUNIOR CHANNEL ASTM A-36**

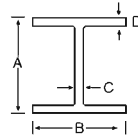


Size In Inches	Wt. In Lbs. Per Ft.	A	B	C		Est. Wt. In Lbs. Stock Length	
		Depth In Inches	Flange Width In Inches	Flange Thick. In Inches	Web Thick. In Inches	20'	40'
8 x	8.5	8	1 7/8		3/16	170	340
10 x	6.5	10	1 1/8	3/16	1/8	130	260
	8.4	10	1 1/2	5/16	3/16	168	336
12 x	10.6	12	1 1/2	5/16	3/16	212	424

**BAR SIZE CHANNEL ASTM A-36**



A	B	C	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length
Size In Inches	Size In Inches	Size In Inches		20'
1 x	1/2 x	1/8	.84	16.8
1 1/4 x	1/2 x	1/8	1.00	20.0
1 1/2 x	1/2 x	1/8	1.12	22.4
2 x	1/2 x	1/8	1.43	26.8
2 x	1 x	1/8	1.78	35.6
2 x	1 x	3/16	2.32	46.4



**WIDE FLANGE BEAM (W) ASTM A-36**

Size In Inches	Wt. In Lbs. Per Ft.	A	B	C	D	Est. Wt. In Lbs.	
		Depth In Inches	Flange Width In Inches	Web Thick. In Inches	Flange Thick. In Inches	Stock Length 20'	40'
4 x	13	4 1/8	4	1/4	3/8	260	520
5 x	16	5	5	1/4	3/8	320	640
	19	5 1/8	5	1/4	7/16	380	760
6 x	9	5 7/8	4	3/16	3/16	180	360
	12	6	4	1/4	1/4	240	480
	15	6	6	1/4	1/4	300	600
	16	6 1/4	4	1/4	3/8	320	640
8 x	20	6 1/4	6	1/4	3/8	400	800
	25	6 3/8	6 1/8	5/16	7/16	500	1000
	10	7 7/8	4	3/16	3/16	200	400
	13	8	4	1/4	1/4	260	520
	15	8 1/8	4	1/4	5/16	300	600
	18	8 1/8	5 1/4	1/4	5/16	360	720
	21	8 1/4	5 1/4	1/4	3/8	420	840
	24	7 7/8	6 1/2	1/4	3/8	480	960
	28	8	6 1/2	5/16	7/16	560	1120
	31	8	8	5/16	7/16	620	1120
35	8 1/8	8	5/16	1/2	700	1400	
10 x	40	8 1/4	8 1/8	3/8	9/16	800	1600
	48	8 1/2	8 1/8	3/8	11/16	960	1920
	58	8 3/4	8 1/4	1/2	13/16	1160	2320
	67	9	8 1/4	9/16	15/16	1340	2680
	12	9 7/8	4	3/16	3/16	240	480
15 x	15	10	4	1/4	1/4	300	600
	17	10 1/8	4	1/4	5/16	340	680
	19	10 1/4	4	1/4	3/8	380	760

## WIDE FLANGE BEAM (W) ASTM A-36 - Continued

Size In Inches	Wt. In Lbs. Per Ft.	A Depth In Inches	B Flange Width In Inches	C Web Thick. In Inches	D Flange Thick. In Inches	Est. Wt. In Lbs. Stock Length	
						20'	40'
	22	10 1/8	5 3/4	1/4	3/8	440	880
	26	10 3/8	5 3/4	1/4	7/16	520	1040
	30	10 1/2	5 3/4	5/16	1/2	600	1200
	33	9 3/4	8	5/16	7/16	660	1320
	39	9 7/8	8	5/16	1/2	780	1560
	45	10 1/8	8	3/8	5/8	900	1800
	49	10	10	5/16	9/16	980	1960
	54	10 1/8	10	3/8	5/8	1080	2160
	60	10 1/4	10 1/8	7/16	11/16	1200	2400
	68	10 3/8	10 1/8	1/2	3/4	1360	2720
	77	10 5/8	10 1/4	1/2	7/8	1540	3080
	88	10 7/8	10 1/4	5/8	1	1760	3520
	100	11 1/8	10 3/8	11/16	1 1/8	2000	4000
	112	11 3/8	10 3/8	3/4	1 1/4	2240	4480
12 x	14	11 7/8	4	3/16	1/4	280	560
	16	12	4	1/4	1/4	320	640
	19	12 1/8	4	1/4	3/8	380	760
	22	12 1/4	4	1/4	7/16	440	880
	26	12 1/4	6 1/2	1/4	3/8	520	1040
	30	12 3/8	6 1/2	1/4	7/16	600	1200
	35	12 1/2	6 1/2	5/16	1/2	700	1400
	40	12	8	5/16	1/2	800	1600
	45	12	8	5/16	9/16	900	1800
	50	12 1/4	8 1/8	3/8	5/8	1000	2000
	53	12	10	3/8	9/16	1060	2120
	58	12 1/4	10	3/8	5/8	1160	2320
	65	12 1/8	12	3/8	5/8	1300	2600
	72	12 1/4	12	7/16	11/16	1440	2880
	79	12 3/8	12 1/8	1/2	3/4	1580	3160
	87	12 1/2	12 1/8	1/2	13/16	1740	3480
	96	12 3/4	12 1/8	9/16	7/8	1920	3840
	106	12 7/8	12 1/4	5/8	1	2120	4240
	120	13 1/8	12 3/8	11/16	1 1/8	2400	4800
	136	13 3/8	12 3/8	13/16	1 1/4	2720	5440
	152	13 3/4	12 1/2	7/8	1 3/8	3040	6080

## WIDE FLANGE BEAM (W) ASTM A-36 - Continued

Size In Inches	Wt. In Lbs. Per Ft.	A Depth In Inches	B Flange Width In Inches	C Web Thick. In Inches	D Flange Thick. In Inches	Est. Wt. In Lbs.	
						Stock Length 20'	40'
14 x	170	14	12 5/8	15/16	1 9/16	3400	6800
	22	13 3/4	5	1/4	5/16	440	880
	26	13 7/8	5	1/4	7/16	520	1040
	30	13 7/8	6 3/4	1/4	3/8	600	1200
	34	14	6 3/4	5/16	7/16	680	1360
	38	14 1/8	6 3/4	5/16	1/2	760	1520
	43	13 5/8	8	5/16	1/2	860	1720
	48	13 3/4	8	5/16	5/8	960	1920
	53	13 7/8	8	3/8	11/16	1060	2120
	61	13 7/8	10	3/8	5/8	1220	2440
	68	14	10	7/16	3/4	1360	2720
	74	14 1/8	10 1/8	7/16	13/16	1480	2960
	82	14 1/4	10 1/8	1/2	7/8	1640	3280
	90	14	14 1/2	7/16	11/16	1800	3600
	99	14 1/8	14 5/8	1/2	3/4	1980	3960
	109	14 3/8	14 5/8	1/2	7/8	2180	4360
	120	14 1/2	14 5/8	9/16	15/16	2400	4800
	132	14 5/8	14 3/4	5/8	1	2640	5280
	145	14 3/4	15 1/2	11/16	1 1/16	2900	5800
	159	15	15 5/8	3/4	1 3/16	3180	6360
176	15 1/4	15 5/8	13/16	1 5/16	3520	7040	
193	15 1/2	15 3/4	7/8	1 7/16	3860	7720	
211	15 3/4	15 3/4	1	1 9/16	4220	8440	
233	16	15 7/8	1 1/16	1 3/4	4660	9320	
16 x	26	15 3/4	5 1/2	1/4	3/8	520	1040
	31	15 7/8	5 1/2	1/4	7/16	620	1240
	36	15 7/8	7	5/16	7/16	720	1440
	40	16	7	5/16	1/2	800	1600
	45	16 1/8	7	3/8	9/16	900	1800
	50	16 1/4	7 1/8	3/8	5/8	1000	2000
	57	16 3/8	7 1/8	7/16	11/16	1140	2280
	67	16 5/16	10 1/4	11/16	3/8	1340	2680
	77	16 1/2	10 1/4	3/4	7/16	1540	3080
	89	16 3/4	10 3/8	7/8	1/2	1780	3560
	100	17	10 7/16	1	9/16	2000	4000

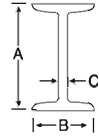
## WIDE FLANGE BEAM (W) ASTM A-36 - Continued

Size In Inches	Wt. In Lbs. Per Ft.	A Depth In Inches	B Flange Width In Inches	C Web Thick. In Inches	D Flange Thick. In Inches	Est. Wt. In Lbs. Stock Length		
						20'	40'	
18 x	35	17 3/4	6	5/16	7/16	700	1400	
	40	17 7/8	6	5/16	1/2	800	1600	
	46	18	6	3/8	5/8	920	1840	
	50	18	7 1/2	3/8	9/16	1000	2000	
	55	18 1/8	7 1/2	3/8	5/8	1100	2200	
	60	18 1/4	7 1/2	7/16	11/16	1200	2400	
	65	18 3/8	7 5/8	7/16	3/4	1300	2600	
	71	18 1/2	7 5/8	1/2	13/16	1240	2480	
	76	18 1/4	11	7/16	11/16	1520	3040	
	86	18 3/8	11 1/8	1/2	3/4	1720	3440	
	97	18 5/8	11 1/8	9/16	11 1/8	1940	3880	
	106	18 3/4	11 1/4	9/16	15/16	2120	4240	
	119	19	11 1/4	5/8	1 1/16	2380	4760	
	21 x	44	20 5/8	6 1/2	3/8	7/16	880	1760
50		20 7/8	6 1/2	3/8	9/16	1000	2000	
57		21	6 1/2	3/8	5/8	1140	2280	
62		21	8 1/4	3/8	5/8	1240	2480	
68		21 1/8	8 1/4	7/16	11/16	1360	2720	
73		21 1/4	8 1/4	7/16	3/4	1460	2920	
83		21 3/8	8 3/8	1/2	13/16	1660	3320	
93		21 5/8	8 3/8	9/16	15/16	1860	3720	
101		21 3/8	12 1/4	1/2	13/16	2020	4040	
111		21 1/2	12 3/8	9/16	7/8	2220	4440	
122		21 5/8	12 3/8	5/8	15/16	2440	4880	
132		21 7/8	12 1/2	5/8	1 1/16	2640	5280	
24 x		55	23 5/8	7	3/8	1/2	1100	2200
		62	23 3/4	7	7/16	9/16	1240	2480
	68	23 3/4	9	7/16	9/16	1360	2720	
	76	23 7/8	9	7/16	11/18	1520	3040	
	84	24 1/8	9	1/2	3/4	1680	3360	
	94	24 1/4	9 1/8	1/2	7/8	1880	3760	
	104	24	12 3/4	1/2	3/4	2080	4160	
	117	24 1/4	12 3/4	9/16	7/8	2340	4680	
	131	24 1/2	12 7/8	5/8	15/16	2620	5240	
	146	24 3/4	12 7/8	5/8	1 1/16	2920	5840	
	162	25	13	11/16	1 1/4	3240	6480	

## WIDE FLANGE BEAM (W) ASTM A-36 - Continued

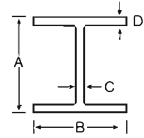
Size In Inches	Wt. In Lbs. Per Ft.	A	B	C	D	Est. Wt. In Lbs. Stock Length	
		Depth In Inches	Flange Width In Inches	Web Thick. In Inches	Flange Thick. In Inches	20'	40'
27 x	84	26 3/4	10	7/16	5/8	1680	3360
	94	26 7/8	10	1/2	3/4	1880	3760
	102	27 1/8	10	1/2	13/16	2040	4080
	114	27 1/4	10 1/8	9/16	15/16	2280	4560
	146	27 3/8	14	5/8	1	2920	5840
	161	27 5/8	14	11/16	1 1/16	3220	6440
	178	27 3/4	14 1/8	3/4	1 3/16	3560	7120
	30 x	99	29 5/8	10 1/2	1/2	11/16	1980
108		29 7/8	10 1/2	9/16	3/4	2160	4320
116		30	10 1/2	9/16	7/8	2320	4640
124		30 1/8	10 1/2	9/16	15/16	2480	4960
132		30 1/4	10 1/2	5/8	1	2640	5280
173		30 1/2	15	5/8	1 1/16	3460	6920
191		30 5/8	15	11/16	1 3/16	3820	7640
211		31	15 1/8	3/4	1 5/16	4220	8440
33 x	118	32 7/8	11 1/2	9/16	3/4	2360	4720
	130	33 1/8	11 1/2	9/16	7/8	2600	5200
	141	33 1/4	11 1/2	5/8	15/16	2820	5640
	152	33 1/2	11 5/8	5/8	1 1/16	3040	6080
36 x	135	35 1/2	12	5/8	13/16	2700	5400
	150	35 7/8	12	5/8	15/16	3000	6000
	160	36	12	5/8	1	3200	6400
	170	36 1/8	12	11/16	1 1/8	3400	6800
	182	36 3/8	12 1/8	3/4	1 3/16	3640	7280
	194	36 1/2	12 1/8	3/4	1 1/4	3880	7760
	210	36 3/4	12 1/8	15/16	1 3/8	4200	8400
	230	35 7/8	16 1/2	3/4	1 1/4	4600	9200
	245	36 1/8	16 1/2	13/16	1 3/8	4900	9800
	260	36 1/4	16 1/2	13/16	1 7/16	5200	10400
	300	36 3/4	16 5/8	15/16	1 11/16	6000	12000

**STANDARD I-BEAM (S) ASTM A-36**



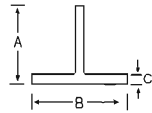
Size In Inches	Wt. In Lbs. Per Ft.	A		B		C		Est. Wt. In Lbs. Stock Length	
		Depth In Inches		Flange Width In Inches	Flange Thick. In Inches	Web Thick. In Inches		20'	40'
3 x	5.7	3		2 3/8	1/4	3/16		114	228
	7.5	3		2 1/2	1/4	3/8		150	300
4 x	7.7	4		2 5/8	5/16	3/16		154	308
	9.5	4		2 3/4	5/16	5/16		190	380
5 x	10.0	5		3	5/16	3/16		200	400
	14.75	5		3 1/4	5/16	1/2		295	590
6 x	12.5	6		3 3/8	3/8	1/4		250	500
	17.25	6		3 5/8	3/8	7/16		345	690
7 x	15.3	7		3 5/8	3/8	1/4		306	612
	20	7		3 7/8	3/8	7/16		400	800
8 x	18.4	8		4	7/16	1/4		368	736
	23.0	8		4 1/8	7/16	7/16		460	920
10 x	25.4	10		4 5/8	1/2	5/16		508	1016
	35.0	10		5	1/2	5/8		700	1400
12 x	31.8	12		5	9/16	3/8		636	1272
	35.0	12		5 1/8	9/16	7/16		700	1400
	40.8	12		5 1/4	11/16	7/16		816	1632
	50.0	12		5 1/2	11/16	11/16		1000	2000
15 x	42.9	15		5 1/2	5/8	7/16		858	1716
	50.0	15		5 5/8	5/8	9/16		1000	2000
18 x	54.7	18		6	11/16	7/16		1094	2188
	70.0	18		6 1/4	11/16	11/16		1400	2800
20 x	66.0	20		6 1/4	13/16	1/2		1320	2640
	75.0	20		6 3/8	13/16	5/8		1500	3000
24 x	80.0	24		7	7/8	1/2		1600	3200
	90.0	24		7 1/8	7/8	5/8		1800	3600
	100.0	24		7 1/4	7/8	3/4		2000	4000
	106.0	24 1/2		7 7/8	1 1/8	5/8		2120	4240
	121.0	24 1/2		8	1 1/16	13/16		2420	4840

**JUNIOR BEAMS (M) ASTM A-36**



Size In Inches	Wt. In Lbs. Per Ft.	A	B	C	D	Est. Wt. In Lbs.	
		Depth In Inches	Flange Width In Inches	Web Thick. In Inches	Flange Thick. In Inches	Stock Length 20'	40'
6 x	4.4	6	1 7/8	1/8	3/16	88	176
8 x	6.5	8	2 1/4	1/8	3/16	130	260
10 x	9.0	10	2 3/4	3/16	3/16	180	360
12 x	11.8	12	3	3/16	1/4	236	472

**TEE BAR ASTM A-36**



Size In Inches	Wt. In Lbs. Per Ft.	A Height In Inches	B Flange Width In Inches	C Flange Thick. In Inches
2 x	6.5	2	4	3/8
3 x	6.0	3	4	1/4
3 x	7.5	3	6	1/4
4 x	6.5	4	4	1/4
4 x	7.5	4	4	5/16
4 x	12.0	4	6 1/2	3/8

**Note:** Any wide flange beam or I-Beam can be split to make two tee sections.

**CONCRETE REINFORCING BARS ASTM A-615****Conform to A615-40 Specifications****New Billet Steel**

Size In Inches	No.	Metric	Wt. In Lbs. Per Ft.	Stock Length In Ft.
3/8	3	#10	.37	20' and 40'
1/2	4	#13	.66	20' and 40'
5/8	5	#16	1.04	20' and 40'
3/4	6	#19	1.50	20' and 40'
7/8	7	#22	2.04	20' and 40'
1	8	#25	2.67	20' and 40'
1 1/8	9	#29	3.40	20' and 40'
1 1/4	10	#32	4.30	20' and 40'
1 3/8	11	#36	5.30	20' and 40'

**WELDED STEEL MESH**

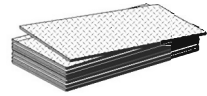
Designation	Spacing In Inches		Wire Gage		Section Wt. In Lbs. Sq. Inch Per Lin. Ft.		Lbs. Per 100 Sq. Ft.
	Longi- tudinal	Trans- verse	Longi- tudinal	Trans- verse	Longi- tudinal	Trans- verse	
6 x 6 x 10	6	6	10	10	.029	.029	24
6 x 6 x 6	6	6	6	6	.058	.058	42

**SQUARE STRUCTURAL STEEL TUBING ASTM A-500 GR. A&B**

Outside Dimension In Inches	Outside Dimension In Inches	Wall Thick. In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Stock Length		
				20'	24'	40'
1/2 x	1/2	.063	.38	.768	9.21	
3/4 x	3/4	.063	.60	12.10	14.52	
1 x	1	.063	.82	16.54	19.85	
		.120	1.44	28.80	34.56	
1 1/4 x	1 1/4	.063	1.04	20.94	25.13	
		.120	1.84	36.80	44.16	
1 1/2 x	1 1/2	.063	1.26	25.00	30.43	
		.120	2.25	45.00	54.00	
		.180	3.22	64.40	77.28	
2 x	2	.063	1.71	34.20	41.04	
		.120	3.05	61.00	73.20	
		.180	4.17	83.40	100.08	
		.250	5.41	108.20	129.84	
2 1/2 x	2 1/2	.180	5.40	108.00		
		.250	7.11	142.20		
3 x	3	.120	4.75	95.00		
		.180	6.62	132.40		
		.250	8.81	176.20		
3 1/2 x	3 1/2	.180	7.84	156.80		
		.250	10.51	210.20		
4 x	4	.180	9.07	181.40		
		.250	12.21	244.40		488.40
		.375	17.27	345.40		690.80
		.500	21.63	432.60		865.20
5 x	5	.250	15.62	312.40		624.80
		.375	22.37	447.40		894.80
		.500	28.43	568.60		1137.20
6 x	6	.250	19.02	380.40		760.80
		.375	27.48	549.60		1099.20
		.500	35.24	704.80		1409.60
8 x	8	.250	25.82	516.40		1032.80
		.375	37.69	753.80		1507.60
		.500	48.85	977.00		1954.00
10 x	10	.250	32.63	652.60		1305.20
		.375	47.90	958.00		1916.00
		.500	62.46	1249.20		2498.40
12 x	12	.250	39.43	788.60		1577.20
		.375	58.10	1162.00		2324.00
		.500	76.07	1521.40		3042.80

**RECTANGULAR STRUCTURAL STEEL TUBING** ASTM A-500 GR. A&B

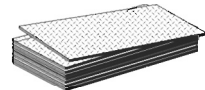
Outside Dimension In Inches	Outside Dimension In Inches	Wall Thick. In Inches	Wt. In Lbs. Per Ft.
2 x	1	.063	1.26
		.072	1.45
		.120	2.25
3 x	2	.120	3.90
		.180	5.40
		.250	7.11
4 x	2	.120	4.75
		.180	6.62
		.250	8.80
4 x	3	.120	5.60
		.180	7.84
		.250	10.51
5 x	3	.180	9.07
		.250	12.21
6 x	2	.180	9.07
		.250	12.21
6 x	3	.180	10.30
		.250	13.91
6 x	4	.250	15.62
		.375	22.37
7 x	5	.250	19.02
8 x	4	.375	27.48
8 x	6	.250	29.23
		.375	42.79
12 x	4	.250	25.82
		.375	37.69
12 x	6	.250	29.23
		.375	42.79



**HOT ROLLED SHEET ASTM A-569**  
**COMMERCIAL QUALITY**

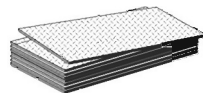
Ga. (Decimal Avg. in Inches)	Size In Inches	Wt. In Lbs. Per Sq. Ft.	Est. Wt. In Lbs. Per Piece	Ga. (Decimal Avg. in Inches)	Size In Inches	Wt. In Lbs. Per Sq. Ft.	Est. Wt. In Lbs. Per Piece
10 (.1345)	48 x 96 120 144 240	5.625	180 225 270 450	12 (.1046)	60 x 120 144 240 72 x 120 144 240	4.375	219 263 438 263 315 525
11 (.1196)	48 x 96 120 60 x 120	5.00	160 200 250	14 (.0747)	48 x 96 120 144 60 x 96 120 144 240	3.125	100 125 150 125 156 188 313
12 (.1046)	48 x 96 120 144 60 x 96	4.375	140 175 210 175	(.0598)	16 120 144 60 x 96 120	48 x 96	2.500 80 100 120 100 125

**GALVANIZED SHEET ASTM A-569**  
**COMMERCIAL QUALITY**



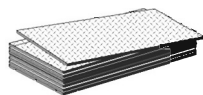
Ga. (Decimal Avg. In Inches)	Size In Inches	Wt. In Lbs. Per Sq. Ft.	Est. Wt. In Lbs. Per Piece	Ga. (Decimal Avg. In Inches)	Size In Inches	Wt. In Lbs. Per Sq. Ft.	Est. Wt. In Lbs. Per Piece
10 (.1382)	48 x 120	5.781	231.25	20 (.0396)	48 x 120	1.656	66.25
11 (.1233)	48 x 120	5.156	206.24	22 (.0336)	48 x 120	1.406	56.25
12 (.1084)	48 x 120	4.531	181.25	24 (.0276)	48 x 120	1.156	46.25
14 (.0785)	48 x 120	3.281	131.25	26 (.0217)	48 x 120	.906	36.24
16 (.0635)	48 x 120	2.656	106.25	28 (.0202)	48 x 120	.781	31.24
18 (.0516)	48 x 120	2.156	86.25				

**CARBON STEEL PLATE & COIL ASTM A-36, A-516 GR70**



Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Per Piece	Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Per Piece
3/16	48 x 96	7.66	245	1/2	48 x 96	20.42	653
	120		306		120		817
	144		368		240		1634
	240		613		60 x 120		1021
	60 x 120		383		240		2042
	240		766		72 x 240		2450
	72 x 120		460		84 x 240		2859
	240		919		360		4288
	84 x 240		1072		96 x 240		3267
	360		1609		480		6534
1/4	48 x 96	10.21	327	5/8	48 x 96	25.53	817
	120		408		120		1021
	240		817		60 x 96		1021
	60 x 120		511		120		1277
	240		1021		240		2554
	72 x 240		1225		72 x 120		1532
	84 x 240		1429		240		3064
	360		2144		84 x 240		3574
	480		2859		96 x 240		4085
	96 x 240		1634		3/4		48 x 96
360	2450	120	1225				
480	3267	240	2450				
3/8	48 x 96	15.32	490	60 x 240	3063		
	120		613	72 x 240	3676		
	240		1226	96 x 240	4901		
	60 x 120		766	480	9801		
	240		1532	1	48 x 96	40.84	1307
	72 x 120		919	120	1634		
	240		1838	60 x 120	2042		
	84 x 240		2145	240	4084		
	480		4290	96 x 240	6534		
	96 x 240		2451	480	13069		
480	4902						

**FLOOR PLATE & COIL COMMERCIAL QUALITY**



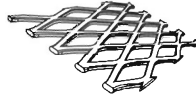
**4-WAY MEDIUM PATTERN**

Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Per Piece	Size In Inches	Size In Inches	Wt. In Lbs. Per Ft.	Est. Wt. In Lbs. Per Piece
1/8	48 x 96	6.16	197		240		1126
	120		246		72 x 240		1351
	240		493		84 x 240		1576
	60 x 120		308		96 x 240		1802
	240		616				
	72 x 120		370				
3/16	48 x 96	8.71	279		240	13.81	691
	120		348		72 x 240		739
	240		697		84 x 240		1933
	60 x 120		436		96 x 240		1964
	240		871				
	72 x 240		1045				
1/4	48 x 96	11.26	360		240	16.37	524
	120		450		48 x 96		655
	240		901		120		1310
	60 x 96		450		240		819
	120		563		60 x 120		1637
					240		
				72 x 120	982		
				240	1964		
				84 x 240	2292		
				96 x 240	2619		
				1/2	96 x 240	21.47	3435

**EXPANDED METAL**

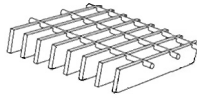
Designation	Thick. In Inches	Size In Inches	Wt. In Lbs. Per Sq. Ft.	Est. Wt. In Lbs. Per Piece
1/4 - No. 18	.0478	48 x 96	1.14	36.48
1/2 - No. 18	.0478	48 x 96	0.70	22.40
1/2 - No. 16	.0598	48 x 96	0.86	27.52
1/2 - No. 13	.0897	48 x 96	1.47	47.04
3/4 - No. 16	.0598	48 x 96	.540	17.28
3/4 - No. 9	.1495	48 x 96	1.80	57.60
1 1/2- No. 16	.0598	48 x 96	.400	12.80
1 1/2- No. 13	.0897	48 x 96	.600	19.20
1 1/2- No. 9	.1495	48 x 96	1.20	38.40
2 - No. 9	.1495	48 x 96	.900	28.80

**Notes:** Expanded metal is available in either flat or raised pattern. The first number in the designation represents width of short way of diamond, measuring from center to center of material. The second number represents approximate gauge of material. Flattened sheets are slightly thinner than raised sheets.

**WALKWAY GRATING**

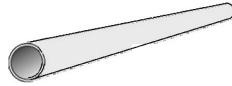
Designation	Size In Inches	Wt. In Lbs. Per Sq. Ft.	Est. Wt. In Lbs. Per Piece
3.00	48 x 96	3.00	96
3.14	48 x 96	3.14	100
4.00	48 x 96	4.00	128
4.27	48 x 96	4.27	137
5.00	48 x 96	5.00	160
6.25	48 x 96	6.25	200

**Notes:** Walkway Grating is used for runways, catwalks and platforms where a strong open flooring is needed. This material is in a raised pattern.

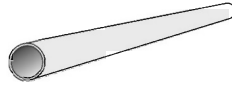
**BAR GRATING**

Bearing Bar In Inches	Cross Bar In Inches	Wt. In Lbs. Per Sq. Ft.
1 x 3/16	1/4"	7.35
1 1/4 x 3/16	1/4"	9.03
1 1/2 x 3/16	5/16"	10.94
2 x 3/16	5/16"	14.30

**Notes:** Bar Grating is available in black and galvanized steel, and smooth or serrated surface. Sizes are 2' or 3' wide x 20' or 24' long.

**STANDARD WALL PIPE**

Pipe Size In Inches	O.D. In Inches	I.D. In Inches	Wall Thick. In Inches	Wt. In Lbs. Per Ft.
1/8	.40	.26	.068	0.24
1/4	.54	.36	.088	0.42
3/8	.67	.49	.091	0.56
1/2	.84	.62	.109	0.85
3/4	1.05	.82	.113	1.13
1	1.31	1.04	.133	1.67
1 1/4	1.66	1.38	.140	2.27
1 1/2	1.90	1.61	.145	2.71
2	2.37	2.06	.154	3.65
2 1/2	2.87	2.46	.203	5.79
3	3.50	3.06	.216	7.57
3 1/2	4.00	3.54	.226	9.10
4	4.50	4.02	.237	10.79
4 1/2	5.00	4.50	.247	12.53
5	5.56	5.04	.258	14.63
6	6.625	6.06	.280	18.97
8	8.62	7.98	.322	28.55
10	10.75	10.02	.365	40.48
12	12.75	12.00	.375	49.56
14	14	13.25	.375	54.57
16	16	15.25	.375	62.58
18	18	17.25	.375	70.59
20	20	19.25	.375	78.60
22	22	21.25	.375	86.61
24	24	23.25	.375	94.62
26	26	25.25	.375	102.60
28	28	27.25	.375	110.60
30	30	29.25	.375	118.60
32	32	31.25	.375	126.70
34	34	33.25	.375	134.70
36	36	35.25	.375	142.70
42	42	41.25	.375	166.70
48	48	47.25	.375	190.70

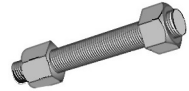
**EXTRA HEAVY WALL PIPE**

Pipe Size In Inches	O.D. In Inches	I.D. In Inches	Wall Thick. In Inches	Wt. In Lbs. Per Ft.
1/8	.40	.215	.095	0.314
1/4	.54	.302	.119	0.535
3/8	.67	.423	.126	0.738
1/2	.84	.546	.147	1.088
3/4	1.05	.742	.154	1.474
1	1.31	.957	.179	2.172
1 1/4	1.66	1.278	.191	2.997
1 1/2	1.90	1.500	.200	3.631
2	2.37	1.939	.218	5.022
2 1/2	2.87	2.323	.276	7.661
3	3.50	2.900	.300	10.250
3 1/2	4.00	3.364	.318	12.510
4	4.50	3.826	.337	14.980
4 1/2	5.00	4.290	.355	17.610
5	5.56	4.813	.375	20.780
6	6.62	5.761	.432	28.570
8	8.62	7.625	.500	43.390
10	10.75	9.750	.500	54.740
12	12.75	11.750	.500	65.420
14	14	13	.500	72.090
16	16	15	.500	82.770
18	18	17	.500	93.450
20	20	19	.500	104.100
22	22	21	.500	114.800
24	24	23	.500	125.500
26	26	25	.500	136.200
28	28	27	.500	146.800
30	30	29	.500	157.500
32	32	31	.500	168.200
34	34	33	.500	178.900
36	36	35	.500	189.600
42	42	41	.500	221.500
48	48	47	.500	253.600

**BOLTING DIMENSIONS FOR 150 LB. FLANGES**

Pipe Size	Outside Diam. Flange	Diam. Of Bolt Circle	Diam. Of Bolts	No. Of Bolts	Stud Bolt Length	Machine Bolt Length
1/2	3 1/2	2 3/8	1/2	4	2 1/4	1 3/4
3/4	3 7/8	2 3/4	1/2	4	2 1/4	2
1	4 1/4	3 1/8	1/2	4	2 1/2	2
1 1/4	4 5/8	3 1/2	1/2	4	2 1/2	2 1/4
1 1/2	5	3 7/8	1/2	4	2 3/4	2 1/4
2	6	4 3/4	5/8	4	3	2 3/4
2 1/2	7	5 1/2	5/8	4	3	3
3	7 1/2	6	5/8	4	3 1/2	3
3 1/2	8 1/2	7	5/8	8	3 1/2	3
4	9	7 1/2	5/8	8	3 1/2	3
5	10	8 1/2	3/4	8	3 3/4	3 1/4
6	11	9 1/2	3/4	8	3 3/4	3 1/4
8	13 1/2	11 3/4	3/4	8	4	3 1/2
10	16	14 1/4	7/8	12	4 1/2	3 3/4
12	19	17	7/8	12	4 1/2	4
14	21	18 3/4	1	12	5	4 1/4
16	23 1/2	21 1/4	1	16	5 1/4	4 1/2
18	25	22 3/4	1 1/8	16	5 3/4	4 3/4
20	27 1/2	25	1 1/8	20	6	5 1/4
22	27 1/2	27 1/4	1 1/4	20	6 1/2	5 1/2
24	32	29 1/2	1 1/4	20	6 3/4	5 3/4
26	34 1/4	31 3/4	1 1/4	24	7	6
30	38 3/4	36	1 1/4	28	7 1/4	6 1/4
34	43 3/4	40 1/2	1 1/2	32	8	7
36	46	42 3/4	1 1/2	32	8 1/4	7
42	53	49 1/2	1 1/2	36	8 3/4	7 1/2

**Notes:** Stud Bolt Lengths assume 1/16" raised face flange. All dimensions are given in inches.

**BOLTING DIMENSIONS FOR 300 LB. FLANGES**

Pipe Size	Outside Diam. Flange	Diam. Of Bolt Circle	Diam. Of Bolts	No. Of Bolts	Stud Bolt Length	Machine Bolt Length
1/2	3 3/4	2 5/8	1/2	4	2 1/2	2
3/4	4 5/8	3 1/4	5/8	4	2 3/4	2 1/2
1	4 7/8	4 1/2	5/8	4	3	2 1/2
1 1/4	4 5/8	3 7/8	5/8	4	3	2 3/4
1 1/2	5	4 1/2	3/4	4	3 1/2	3
2	6	5	5/8	8	3 1/4	3
2 1/2	7	5 7/8	3/4	8	3 3/4	3 1/4
3	7 1/2	6 5/8	3/4	8	4	3 1/2
3 1/2	8 1/2	7 1/4	3/4	8	4 1/4	3 3/4
4	9	7 7/8	3/4	8	4 1/4	3 3/4
5	11	9 1/4	3/4	8	4 1/2	4
6	12 1/2	10 5/8	3/4	8	4 3/4	4 1/4
8	15	13	7/8	12	5 1/4	4 3/4
10	17 1/2	15 1/4	1	16	6	5 1/4
12	20 1/2	17 3/4	1 1/8	16	6 1/2	5 3/4
14	23	20 1/4	1 1/8	20	6 3/4	6
16	25 1/2	22 1/2	1 1/4	20	7 1/4	6 1/2
18	28	24 3/4	1 1/4	24	7 1/2	6 3/4
20	30 1/2	27	1 1/4	24	8	7
22	33	29 1/4	1 1/2	24	8 3/4	7 1/2
24	36	32	1 1/2	24	9	7 3/4
26	38 1/4	34 1/2	1 5/8	28	10	8 3/4
30	43	39 1/4	1 3/4	28	11 1/4	10
34	47 1/2	43 1/2	1 7/8	28	12 1/4	10 3/4
36	50	46	2	32	12 3/4	11 1/4
42	57	52 3/4	2	36	13 3/4	13 1/2

**Notes:** Stud Bolt Lengths assume 1/16" raised face flange. All dimensions are given in inches.

## DECIMAL EQUIVALENTS

<b>1/64"</b>	0.0156"	<b>17/64"</b>	0.2656"	<b>33/64"</b>	0.5156"	<b>49/64"</b>	0.7656"
<b>1/32"</b>	0.03125"	<b>9/32"</b>	0.28125"	<b>17/32"</b>	0.53125"	<b>25/32"</b>	0.78125"
<b>3/64"</b>	0.0469"	<b>19/64"</b>	0.2969"	<b>35/64"</b>	0.5469"	<b>51/64"</b>	0.7969"
<b>1/16"</b>	0.0625"	<b>5/16"</b>	0.3125"	<b>9/16"</b>	0.5625"	<b>13/16"</b>	0.8125"
<b>5/64"</b>	0.0781"	<b>21/64"</b>	0.3281"	<b>37/64"</b>	0.5781"	<b>53/64"</b>	0.8281"
<b>3/32"</b>	0.09375"	<b>11/32"</b>	0.34375"	<b>19/32"</b>	0.59375"	<b>27/32"</b>	0.84375"
<b>7/64"</b>	0.1094"	<b>23/64"</b>	0.3594"	<b>39/64"</b>	0.6094"	<b>55/64"</b>	0.8594"
<b>1/8"</b>	0.1250"	<b>3/8"</b>	0.3750"	<b>5/8"</b>	0.6250"	<b>7/8"</b>	0.8750"
<b>9/64"</b>	0.1406"	<b>25/64"</b>	0.3906"	<b>41/64"</b>	0.6406"	<b>57/64"</b>	0.8906"
<b>5/32"</b>	0.15625"	<b>13/32"</b>	0.40625"	<b>21/32"</b>	0.65625"	<b>29/32"</b>	0.90625"
<b>11/64"</b>	0.1719"	<b>27/64"</b>	0.4219"	<b>43/64"</b>	0.6719"	<b>59/64"</b>	0.9219"
<b>3/16"</b>	0.1865"	<b>7/16"</b>	0.4375"	<b>11/16"</b>	0.6875"	<b>15/16"</b>	0.9375"
<b>13/64"</b>	0.2031"	<b>29/64"</b>	0.4531"	<b>45/64"</b>	0.7031"	<b>61/64"</b>	0.9531"
<b>7/32"</b>	0.21875"	<b>15/32"</b>	0.46875"	<b>23/32"</b>	0.71875"	<b>31/32"</b>	0.96875"
<b>15/64"</b>	0.2344"	<b>31/64"</b>	0.4844"	<b>47/64"</b>	0.7344"	<b>63/64"</b>	0.9844"
<b>1/4"</b>	0.2500"	<b>1/2"</b>	0.5000"	<b>3/4"</b>	0.7500"	<b>1"</b>	1.000"



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