

# CARBON STEEL

## GRADES STOCKED

C-1018\*  
 C-12L14\*  
 LEDLOY (A)

### SPECIFICATIONS

\*CHEMICALS MEET QQS 633 A--QQS-634 (1010 THROUGH 1050)

\*CHEMICALS MEET QQS-637--(1109 THROUGH 1215)

\*CHEMICALS MEET ASTM-A-108--(1010 THROUGH 1215)

### CHEMICAL ANALYSES — Maximum Unless Indicated

AISI	CARBON	MAN-GANESE	PHOS-PHORUS	SULFER	LEAD	SILICON	NICKEL	CHROM-IUM	MOLYB-DENUM	OTHERS
C-1018	.15/.20	.60/.90	.04	.05						
Ledloy (A)	.13	.80/1.20	.04/.09	.20/.33	.15/.35					
C-12L14	.15	.85/1.15	.04/.09	.26/.35	.15/.35					

### MACHINABILITY RATINGS CARBON

GRADE	APPROXIMATE SURF. FT. PER MIN.	%RELATIVE SPEED BASED ON C-1212 as 100%
C-1018	130	78
C-12L14	325	198
Ledloy (A)	325	198

These machinability ratios must be recognized as approximate values.

### STOCK REMOVAL

#### CARBON

#### C.D. CARBON STEEL

#### RECOMMENDED MINIMUM STOCK REMOVAL FOR SURFACE IMPERFECTIONS

#### NON-SULFER / NON-LEAD

- .001 PER 1/16" (.062) PER SIDE

#### FREE MACH: SUL OR LEAD

- .0015 PER 1/16" (.062) PER SIDE

**NOTE: INSPECTION PRIOR TO ALTERING MATERIAL IS ADVISABLE.**

**NOTE: IT IS NOT ADVISABLE TO TRY TO "FINISH" ON SIZE FROM THE SIZE PURCHASED.**

STRAIGHTNESS: cold finished carbon steel bars are machine straightened within reasonable limits and are suitable for the majority of industrial uses. The degree of straightness is satisfactory for operation in an automatic screw machine.

# COLD DRAWN CARBON STEEL

## ROUNDS STOCKED IN 12' R/L

SIZE	TYPE	SIZE	TYPE
1/16"	Ledloy (12L14)	13/32"	Ledloy (12L14)
3/32"	Ledloy (12L14)	7/16"	C1018 Ledloy (12L14)
7/64"	Ledloy (12L14)	.4425"/.4445"	Ledloy (12L14)
1/8"	C1018 Ledloy (12L14)	29/64"	Ledloy (12L14)
.130"	Ledloy (12L14)	15/32"	Ledloy (12L14)
9/64"	Ledloy (12L14)	1/2"	C1018 Ledloy (12L14)
5/32"	C1018 Ledloy (12L14)	.505"/.507"	Ledloy (12L14)
11/64"	Ledloy (12L14)	33/64"	Ledloy (12L14)
3/16"	C1018 Ledloy (12L14)	17/32"	Ledloy (12L14)
.190"/.192"	Ledloy (12L14)	9/16"	C1018 Ledloy (12L14)
13/64"	Ledloy (12L14)	37/64"	Ledloy (12L14)
7/32"	C1018 Ledloy (12L14)	19/32"	Ledloy (12L14)
15/64"	Ledloy (12L14)	5/8"	C1018 Ledloy (12L14)
1/4"	C1018 Ledloy (12L14)	.630"	Ledloy (12L14)
.255"/.257"	Ledloy (12L14)	41/64"	Ledloy (12L14)
17/64"	Ledloy (12L14)	21/32"	Ledloy (12L14)
9/32"	C1018 Ledloy (12L14)	11/16"	C1018 Ledloy (12L14)
19/64"	Ledloy (12L14)	23/32"	Ledloy (12L14)
5/16"	C1018 Ledloy (12L14)	3/4"	C1018 Ledloy (12L14)
.318"	Ledloy (12L14)	.755"/.757"	Ledloy (12L14)
21/64"	Ledloy (12L14)	25/32"	Ledloy (12L14)
11/32"	C1018 Ledloy (12L14)	13/16"	C1018 Ledloy (12L14)
23/64"	Ledloy (12L14)	7/8"	C1018 Ledloy (12L14)
3/8"	C1018 Ledloy (12L14)	15/16"	C1018 Ledloy (12L14)
.380"/.382"	Ledloy (12L14)	1"	C1018 Ledloy (12L14)
25/64"	Ledloy (12L14)		

**NOTE:** IT IS NOT ADVISABLE TO TRY TO FINISH ON SIZE FROM THE SIZE PURCHASED.  
 NOTE: BARS ARE NOT PERFECTLY ROUND, SQUARE, OR STRAIGHT.  
 PLEASE REFER TO THE VARIOUS CHARTS IN THIS BOOK.

# COLD DRAWN CARBON STEEL

## ROUNDS STOCKED IN 12' R/L

SIZE	TYPE	SIZE	TYPE
1-1/16"	C1018 Ledloy (12L14)	2-3/8"	C1018 Ledloy (12L14)
1-1/8"	C1018 Ledloy (12L14)	2-7/16"	C1018
1-3/16"	C1018 Ledloy (12L14)	2-1/2"	C1018 Ledloy (12L14)
1-1/4"	C1018 Ledloy (12L14)	2-5/8"	C1018 Ledloy (12L14)
1-5/16"	C1018 Ledloy (12L14)	2-11/16"	C1018
1-3/8"	C1018 Ledloy (12L14)	2-3/4"	C1018 Ledloy (12L14)
1-7/16"	C1018 Ledloy (12L14)	2-7/8"	C1018 Ledloy (12L14)
1-1/2"	C1018 Ledloy (12L14)	2-15/16"	C1018
1-9/16"	C1018 Ledloy (12L14)	3"	C1018 Ledloy (12L14)
1-5/8"	C1018 Ledloy (12L14)	3-1/8"	C1018 Ledloy (12L14)
1-11/16"	C1018	3-3/16"	C1018
1-3/4"	C1018 Ledloy (12L14)	3-1/4"	C1018 Ledloy (12L14)
1-13/16"	C1018 Ledloy (12L14)	3-3/8"	C1018
1-7/8"	C1018 Ledloy (12L14)	3-7/16"	C1018
1-15/16"	C1018	3-1/2"	C1018 Ledloy (12L14)
2"	C1018 Ledloy (12L14)	3-5/8"	C1018 Ledloy (12L14)
2-1/16"	C1018	3-3/4"	C1018 Ledloy (12L14)
2-1/8"	C1018 Ledloy (12L14)	3-15/16"	C1018
2-3/16"	C1018 Ledloy (12L14)	4"	C1018 Ledloy (12L14)
2-1/4"	C1018 Ledloy (12L14)	4-1/8"	C1018
2-5/16"	C1018 Ledloy (12L14)	4-1/4"	C1018 Ledloy (12L14)
		4-3/8"	C1018
		4-7/16"	C1018

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# COLD DRAWN CARBON STEEL



## ROUNDS STOCKED IN 12' R/L



SIZE	TYPE	SIZE	TYPE
4-1/2"	C1018 Ledloy (12L14)	7"	C1018
4-3/4"	C1018 Ledloy (12L14)	7-1/2"	C1018 Ledloy (12L14)
5"	C1018 Ledloy (12L14)	7-1/2"	C1018
5-1/4"	C1018 Ledloy (12L14)	8"	C1018 Ledloy (12L14)
5-1/2"	C1018 Ledloy (12L14)	8"	C1018
5-3/4"	C1018	8-1/2"	C1018
6"	C1018 Ledloy (12L14)	9"	C1018 Ledloy (12L14)
6-1/4"	C1018	9"	C1018
6-3/4"	C1018	9-1/2"	C1018
7"	C1018 Ledloy (12L14)	10"	C1018
		11"	C1018



## HEXAGONS STOCKED IN 12' R/L



SIZE	TYPE	SIZE	TYPE
1/8"	Ledloy (12L14)	5/8"	C1018 Ledloy (12L14)
5/32"	Ledloy (12L14)	11/16"	C1018 Ledloy (12L14)
3/16"	C1018 Ledloy (12L14)	3/4"	C1018 Ledloy (12L14)
7/32"	Ledloy (12L14)	13/16"	Ledloy (12L14)
1/4"	C1018 Ledloy (12L14)	7/8"	C1018 Ledloy (12L14)
5/16"	C1018 Ledloy (12L14)	15/16"	Ledloy (12L14)
3/8"	C1018 Ledloy (12L14)	1"	C1018 Ledloy (12L14)
7/16"	C1018 Ledloy (12L14)	1-1/16"	C1018 Ledloy (12L14)
1/2"	C1018 Ledloy (12L14)	1-1/8"	C1018 Ledloy (12L14)
9/16"	C1018 Ledloy (12L14)	1-3/16"	Ledloy (12L14)

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# COLD DRAWN CARBON STEEL



## HEXAGONS STOCKED IN 12' R/L



SIZE	TYPE	SIZE	TYPE
1-1/4"	C1018 Ledloy (12L14)	1-3/4"	C1018
1-3/8"	C1018	1-7/8"	C1018
1-3/8"	Ledloy (12L14)	2"	C1018
1-7/16"	C1018	2-1/8"	C1018
1-1/2"	C1018 Ledloy (12L14)	2-1/4"	C1018
1-5/8"	C1018	2-1/2"	C1018
		3"	C1018



## SQUARES STOCKED IN 12' R/L



SIZE	TYPE	SIZE	TYPE
1/8"	C1018	1-1/4"	C1018 Ledloy (12L14)
3/16"	C1018	1-3/8"	C1018
1/4"	C1018 Ledloy (12L14)	1-1/2"	C1018 Ledloy (12L14)
5/16"	C1018	1-5/8"	C1018
3/8"	C1018 Ledloy (12L14)	1-3/4"	C1018 Ledloy (12L14)
7/16"	C1018	1-7/8"	C1018
1/2"	C1018 Ledloy (12L14)	2"	C1018 Ledloy (12L14)
9/16"	C1018	2-1/4"	C1018
5/8"	C1018 Ledloy (12L14)	2-1/2"	C1018
3/4"	C1018 Ledloy (12L14)	2-3/4"	C1018
7/8"	C1018 Ledloy (12L14)	3"	C1018
15/16"	C1018	3-1/2"	C1018
1"	C1018 Ledloy (12L14)	4"	C1018
1-1/8"	C1018	6"	C1018

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# COLD DRAWN CARBON STEEL

## 1018 FLATS

STOCKED IN 12' R/L

Size	Size	Size	Size	Size											
1/8" x 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 1-3/4" 2-1/4" 3"	5/16" x 3" 3-1/2" 4"	1/2" x 12" 5/8" x 1" 1-1/4" 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2" 2-3/4" 3" 3-1/4" 3-1/2" 3"	1" x 1-1/4" 1-3/8" 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2" 2-3/4" 3" 3-1/4" 3-1/2" 4" 4-1/2" 5" 5-1/2" 6" 8" 9" 10" 12"	1-1/2" x 2-3/4" 3" 3-1/2" 4" 4-1/2" 5" 6" 8"											
					3/8" x 7/8" 1" 1-1/8" 1-1/4" 1-1/4" 1-3/8" 1-1/2" 1-1/2" 1-3/4" 1-3/4" 2" 2-1/4" 2-1/2" 3" 3-1/2" 4" 4-1/2" 5" 6"	3/4" x 1" 1-1/8" 1-1/4" 1-3/8" 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2" 2-3/4" 3" 3-1/4" 3-1/2" 4" 4-1/2" 5" 6" 7/8" x 1" 1-1/4" 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2" 2-3/4" 3" 3-1/4" 3-1/2" 4" 4-1/2" 5" 5-1/2" 6" 8"									
							7/16" x 1" 1-1/4" 1-1/2" 2" 2-1/2"	1-1/8" x 1-1/4" 1-1/2" 1-3/4" 2" 2-1/2" 3" 4"	2" x 2-1/4" 2-1/2" 2-3/4" 3" 3-1/2" 4" 4-1/2" 5" 5-1/2" 6" 8"						
										1/2" x 1" 1-1/8" 1-1/4" 1-3/8" 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2" 2-3/4" 3" 3-1/4" 3-1/2" 4" 4-1/2" 7"	1-1/4" x 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2" 2-3/4" 3" 3-1/2" 4" 4-1/2" 5" 6" 6" 12"	2-1/4" x 2-1/2" 3" 4"			
													5/16" x 3/8" 3/4" 1" 1-1/4" 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2"	7/8" x 1" 1-1/4" 1-1/2" 2" 2-1/2" 3" 3-1/2" 4" 5" 5" 6" 6"	1-1/2" x 1-3/4" 2" 2-1/4" 2-1/2"
	1/2" x 1" 1-1/8" 1-1/4" 1-3/8" 1-1/2" 1-3/4" 2" 2-1/4" 2-1/2" 2-3/4" 3" 3-1/4" 3-1/2" 4" 4-1/2" 7"	1-1/2" x 1-3/4" 2" 2-1/4" 2-1/2"													

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# CARBON STEEL WEIGHTS

## ROUNDS

Estimated Weight, Lbs.				Estimated Weight, Lbs.			
Size in Inches	Per Inch	Per Foot	12 Ft. Bar	Size in Inches	Per Inch	Per Foot	12 Ft. Bar
1/16"	.001	.010	.12	1"			
3/32"	.002	.023	.28	1/2"	.50	6.008	72.10
7/64"	.003	.032	.38	9/16"	.54	6.520	78.24
1/8"	.004	.042	.50	5/8"	.59	7.051	84.61
.130"	.004	.0451	.54	11/16"	.64	7.604	91.25
9/64"	.004	.053	.64	3/4"	.68	8.178	98.14
5/32"	.005	.065	.78	13/16"	.73	8.773	105.30
11/64"	.007	.079	.95	7/8"	.78	9.388	112.70
3/16"	.008	.094	1.13	15/16"	.84	10.02	120.20
.192"	.008	.0989	1.186	2"	.89	10.68	128.2
13/64"	.009	.110	1.32	1/16"	.95	11.36	136.3
7/32"	.011	.128	1.54	1/8"	1.01	12.06	144.7
15/64"	.012	.147	1.76	3/16"	1.07	12.78	153.4
1/4"	.014	.167	2.00	1/4"	1.13	13.52	162.2
.255"	.014	.1736	2.083	5/16"	1.19	14.28	171.4
17/64"	.016	.188	2.256	3/8"	1.26	15.06	180.7
9/32"	.018	.211	2.53	7/16"	1.33	15.87	190.4
19/64"	.019	.235	2.82	1/2"	1.39	16.69	200.3
5/16"	.022	.261	3.13	5/8"	1.54	18.40	220.8
.318"	.022	.269	3.228	11/16"	1.61	19.29	231.5
21/64"	.024	.287	3.44	3/4"	1.69	20.20	242.4
11/32"	.026	.316	3.79	7/8"	1.84	22.07	264.8
23/64"	.029	.345	4.14	15/16"	1.92	23.04	276.5
3/8"	.031	.376	4.51	3"	2.01	24.03	288.4
.380"	.032	.3855	4.62	1/8"	2.18	26.08	312.9
25/64"	.034	.407	4.88	3/16"	2.27	27.13	325.6
13/32"	.037	.441	5.29	1/4"	2.36	28.21	338.5
7/16"	.043	.511	6.13	3/8"	2.54	30.42	365.0
.442"	.044	.5225	6.27	7/16"	2.64	31.55	378.6
29/64"	.046	.548	6.576	1/2"	2.73	32.71	392.5
15/32"	.049	.587	7.04	5/8"	2.93	35.09	421.1
1/2"	.056	.668	8.02	3/4"	3.14	37.55	450.6
.505"	.057	.680	8.16	15/16"	3.45	41.40	496.8
33/64"	.059	.710	8.52	4"	3.56	42.73	512.6
17/32"	.063	.754	9.05	1/8"	3.79	45.43	545.2
9/16"	.070	.845	10.14	1/4"	4.02	48.23	578.7
37/64"	.074	.892	10.70	3/8"	4.26	51.11	613.3
19/32"	.078	.941	11.29	7/16"	4.39	52.58	630.9
5/8"	.087	1.043	12.52	1/2"	4.51	54.07	648.9
.630"	.088	1.06	12.72	3/4"	5.03	60.25	723.0
41/64"	.092	1.096	13.15	5"	5.56	66.75	801.1
21/32"	.096	1.150	13.80	1/4"	6.13	73.60	883.2
11/16"	.105	1.262	15.14	1/2"	6.73	80.77	969.2
23/32"	.115	1.379	16.55	3/4"	7.36	88.29	1059.0
3/4"	.125	1.502	18.02	6"	8.01	96.12	1153.5
.756"	.127	1.522	18.26	1/4"	8.71	104.3	1252.0
49/64"	.131	1.565	18.78	1/2"	9.40	112.8	1353.8
25/32"	.136	1.630	19.56	3/4"	10.14	121.7	1460.0
13/16"	.147	1.763	21.16	7"	10.90	130.8	1570.8
7/8"	.170	2.044	24.53	1/2"	12.52	150.2	1802.2
15/16"	.192	2.347	28.16	8"	14.24	170.9	2050.6
1"	.22	2.670	32.04	1/2"	16.08	192.9	2315.0
1/64"	.23	2.750	33.00	9"	18.02	216.3	2595.2
1/16"	.25	3.014	36.17	1/2"	20.08	241.0	2891.6
1/8"	.28	3.379	40.55	10"	22.25	267.0	3204.0
3/16"	.31	3.766	45.19				
1/4"	.35	4.173	50.08				
5/16"	.38	4.600	55.20				
3/8"	.42	5.049	60.59				
7/16"	.46	5.518	66.22				

# CARBON STEEL WEIGHTS



## HEXAGONS



Estimated Weight, Lbs.				Estimated Weight, Lbs.			
Size in Inches	Per Inch	Per Foot	12 Ft. Bar	Size in Inches	Per Inch	Per Foot	12 Ft. Bar
1/8"	.004	.046	.55	1"	.25	2.945	35.34
5/32"	.006	.072	.864	1/16"	.28	3.324	39.89
3/16"	.009	.104	1.25	1/8"	.31	3.727	44.72
7/32"	.012	.140	1.68	3/16"	.35	4.152	49.82
15/64"	.013	.1618	1.942	1/4"	.38	4.601	55.21
1/4"	.015	.184	2.21	3/8"	.46	5.567	66.80
5/16"	.02	.288	3.46	7/16"	.51	6.085	73.02
3/8"	.03	.414	4.97	1/2"	.55	6.625	79.50
7/16"	.05	.564	6.77	5/8"	.65	7.775	93.30
1/2"	.06	.736	8.83	3/4"	.75	9.019	108.23
9/16"	.08	.932	11.18	1-7/8"	.86	10.35	124.2
5/8"	.10	1.150	13.80	2"	.98	11.78	141.4
11/16"	.12	1.392	16.70	1/8"	1.11	13.30	159.6
3/4"	.14	1.656	19.87	1/4"	1.24	14.91	178.9
13/16"	.16	1.944	23.33	1/2"	1.53	18.40	220.8
7/8"	.19	2.254	27.05	3"	2.21	26.50	318.0
15/16"	.22	2.588	31.06				

# CARBON STEEL WEIGHTS



## SQUARES



Estimated Weight, Lbs.				Estimated Weight, Lbs.			
Size in Inches	Per Inch	Per Foot	12 Ft. Bar	Size in Inches	Per Inch	Per Foot	12 Ft. Bar
1/8"	.004	.053	.636	1"	5/8"	.75	8.980
3/16"	.010	.120	1.436	3/4"	.87	10.410	124.95
1/4"	.017	.213	2.55	7/8"	1.00	11.950	143.44
5/16"	.03	.332	3.981	2"	1.13	13.600	163.20
3/8"	.04	.478	5.736	1/4"	1.43	17.21	206.6
7/16"	.05	.651	7.810	1/2"	1.77	21.25	255.0
1/2"	.07	.850	10.200	3/4"	2.14	25.72	308.6
9/16"	.09	1.076	12.910	3"	2.55	30.6	367.2
5/8"	.11	1.328	15.940	1/2"	3.47	41.65	500.0
3/4"	.16	1.913	22.960	4"	4.53	54.4	652.8
7/8"	.22	2.603	31.240	1/2"	5.74	68.85	826.2
15/16"	.25	2.988	35.856	5"	7.08	85.0	1020.0
1"	.28	3.400	40.80				
1/8"	.36	4.303	51.64				
1/4"	.44	5.313	63.76				
3/8"	.54	6.428	77.14				
1/2"	.64	7.650	91.80				



# CARBON STEEL WEIGHTS

## FLATS

Estimated Weight, Lbs.				Estimated Weight, Lbs.			
Size in Inches	Per Inch	Per Foot	12 Ft. Bar	Size in Inches	Per Inch	Per Foot	12 Ft. Bar
1/8" x 3/16"	.007	.072	.864	1/4" x 3/4"	.053	.628	7.66
1/4"	.009	.106	1.27	7/8"	.062	.744	8.93
5/16"	.011	.133	1.60	1"	.071	.850	10.20
3/8"	.013	.159	1.91	1-1/8"	.080	.956	11.47
7/16"	.016	.186	2.23	1-1/4"	.089	1.063	12.76
1/2"	.018	.213	2.56	1-3/8"	.097	1.160	13.90
5/8"	.022	.266	3.19	1-1/2"	.106	1.275	15.30
3/4"	.027	.319	3.83	1-5/8"	.115	1.380	16.56
7/8"	.031	.372	4.46	1-3/4"	.124	1.488	17.86
1"	.035	.425	5.10	2"	.142	1.700	20.40
1-1/8"	.040	.480	5.76	2-1/4"	.159	1.913	22.96
1-1/4"	.044	.531	6.37	2-1/2"	.177	2.125	25.50
1-3/8"	.049	.588	7.06	2-3/4"	.195	2.340	28.08
1-1/2"	.053	.638	7.66	3"	.213	2.550	30.60
1-5/8"	.058	.696	8.35	3-1/4"	.230	2.760	33.12
1-3/4"	.062	.744	8.93	3-1/2"	.248	2.975	35.70
2"	.071	.850	10.20	4"	.283	3.400	40.80
2-1/4"	.080	.956	11.47	4-1/2"	.319	3.825	45.90
2-1/2"	.089	1.063	12.76	5"	.354	4.250	51.00
2-3/4"	.097	1.160	13.90	5-1/2"	.390	4.680	56.20
3"	.106	1.275	15.30	6"	.425	5.100	61.20
3-1/4"	.115	1.380	16.56	7"	.496	5.950	71.40
3-1/2"	.124	1.488	17.86	8"	.567	6.800	81.60
4"	.142	1.700	20.40	10"	.708	8.500	102.00
4-1/2"	.159	1.913	22.96	12"	.850	10.200	122.40
5"	.177	2.125	25.50	14"	.992	11.900	142.80
6"	.213	2.550	30.60	5/16" x 3/8"	.033	.398	4.78
3/16" x 1/4"	.013	.160	1.92	7/16"	.039	.460	5.52
5/16"	.017	.199	2.39	1/2"	.044	.531	6.37
3/8"	.020	.239	2.87	5/8"	.055	.664	7.97
7/16"	.023	.279	3.35	3/4"	.066	.797	9.56
1/2"	.027	.319	3.83	7/8"	.078	.930	11.16
5/8"	.033	.398	4.78	1"	.089	1.063	12.76
3/4"	.040	.478	5.74	1-1/8"	.099	1.200	14.40
7/8"	.047	.558	6.70	1-1/4"	.111	1.328	15.94
1"	.053	.638	7.66	1-1/2"	.133	1.594	19.13
1-1/8"	.060	.717	8.60	1-3/4"	.155	1.859	22.31
1-1/4"	.066	.797	9.56	2"	.177	2.125	25.50
1-3/8"	.073	.877	10.52	2-1/4"	.199	2.390	28.65
1-1/2"	.080	.956	11.47	2-1/2"	.221	2.656	31.86
1-3/4"	.093	1.116	13.39	2-3/4"	.244	2.930	35.16
2"	.106	1.275	15.30	3"	.266	3.188	38.26
2-1/4"	.120	1.440	17.28	3-1/2"	.310	3.719	44.63
2-1/2"	.133	1.594	19.13	4"	.354	4.250	51.00
2-3/4"	.146	1.750	21.00	4-1/2"	.398	4.776	57.31
3"	.159	1.913	22.96	5"	.443	5.313	63.76
3-1/2"	.186	2.231	26.77	6"	.531	6.375	76.50
4"	.213	2.550	30.60	8"	.708	8.500	102.00
4-1/2"	.239	2.870	34.40	10"	.885	10.630	127.50
5"	.266	3.188	38.26	12"	1.06	12.750	153.00
6"	.319	3.825	45.90	3/8" x 7/16"	.046	.576	6.91
8"	.425	5.100	61.20	1/2"	.053	.638	7.66
10"	.532	6.380	76.56	9/16"	.06	.720	8.64
12"	.638	7.660	91.92	5/8"	.066	.797	9.56
1/4" x 5/16"	.022	.266	3.19	3/4"	.080	.956	11.47
3/8"	.027	.319	3.83	7/8"	.093	1.116	13.39
7/16"	.031	.372	4.46	1"	.106	1.275	15.30
1/2"	.035	.425	5.10	1-1/8"	.120	1.430	17.16
9/16"	.040	.480	5.76	1-1/4"	.133	1.594	19.13
5/8"	.040	.531	6.37	1-3/8"	.146	1.750	21.00

# CARBON STEEL WEIGHTS

## FLATS-Continued

Estimated Weight, Lbs.				Estimated Weight, Lbs.			
Size in Inches	Per Inch	Per Foot	12 Ft. Bar	Size in Inches	Per Inch	Per Foot	12 Ft. Bar
3/8" x 1-1/2"	.159	1.913	22.96	1/2" x 9"	1.280	15.360	184.32
	.173	2.080	24.96		1.420	17.000	204.00
	.186	2.231	26.77		1.700	20.400	244.80
	.213	2.550	30.60	9/16" x 5/8"	.100	1.200	14.40
	.239	2.869	34.43		.120	1.440	17.28
	.266	3.188	38.26		.159	1.910	22.90
	.292	3.500	42.00		.199	2.390	28.70
	.319	3.825	45.90		.239	2.870	34.44
	.345	4.140	49.68	.319	3.830	45.96	
	.372	4.463	53.56	5/8" x 3/4"	.133	1.594	19.13
	.425	5.100	61.20		.155	1.859	22.31
	.478	5.738	68.86		.177	2.125	25.50
	.531	6.375	76.50		.199	2.390	28.60
	.584	7.010	84.10		.221	2.656	31.87
.637	7.650	91.80	.244		2.930	35.16	
.744	8.928	107.13	.266		3.188	38.26	
.850	10.200	122.40	.288		3.454	41.45	
.956	11.475	137.70	.310		3.719	44.63	
1.060	12.750	153.00	.354		4.250	51.00	
1.280	15.300	183.60	.398		4.781	57.37	
1.490	17.856	214.27	.438		5.313	63.76	
7/16" x 1/2"	.062	.744	8.93	.487	5.840	70.00	
	.078	.929	11.15	.531	6.375	76.50	
	.093	1.116	13.39	.576	6.906	82.87	
	.109	1.344	16.13	.620	7.438	89.26	
	.124	1.488	17.86	.708	8.500	102.00	
	.155	1.859	22.31	.752	9.031	108.28	
	.186	2.231	26.77	.797	9.560	114.70	
	.217	2.600	31.20	.885	10.630	127.60	
	.248	2.975	35.70	.974	11.690	140.30	
	.310	3.720	44.60	1.060	12.750	153.00	
	.372	4.460	53.50	1.240	14.880	178.56	
	.496	5.950	71.40	1.420	17.000	204.00	
	1/2" x 9/16"	.080	.960	11.52	1.590	19.080	228.96
		.089	1.063	12.76	1.770	21.250	255.00
.106		1.275	15.30	2.130	25.500	306.00	
.124		1.488	17.86	3/4" x 7/8"	.186	2.230	26.77
.142		1.700	20.40		.213	2.550	30.60
.159		1.920	23.00		.239	2.880	34.56
.177		2.125	25.50		.266	3.188	38.26
.195		2.340	28.00		.292	3.500	42.00
.213		2.550	30.60		.319	3.825	45.90
.230		2.760	33.12		.345	4.140	49.68
.248		2.975	35.70		.372	4.463	53.56
.283		3.400	40.80		.425	5.100	61.20
.319		3.825	45.90		.478	5.738	68.86
.354		4.250	51.00		.531	6.375	76.60
.390	4.675	56.10	.584		7.000	84.00	
.425	5.100	61.20	.637	7.650	91.80		
.460	5.524	66.24	.691	8.290	99.48		
.496	5.950	71.40	.744	8.925	107.00		
.567	6.800	81.60	.850	10.200	122.40		
.602	7.225	86.70	.903	10.840	130.05		
.637	7.650	91.80	.956	11.470	137.60		
.708	8.500	102.00	1.060	12.750	153.00		
.779	9.350	112.20	1.170	14.040	168.50		
.850	10.200	122.40	1.280	15.300	186.30		
.921	11.052	132.62	1.380	16.560	198.72		
.992	11.904	142.84	1.490	17.880	214.56		
1.130	13.600	163.20					

# CARBON STEEL WEIGHTS

## FLATS-Continued

Estimated Weight, Lbs.				Estimated Weight, Lbs.				
Size in Inches	Per Inch	Per Foot	12 Ft. Bar	Size in Inches	Per Inch	Per Foot	12 Ft. Bar	
3/4" x 8"	1.700	20.400	244.80	1-1/8" x 2-1/2"	.797	9.560	114.75	
	1.910	22.920	275.04		3"	.956	11.470	137.66
	2.130	25.500	306.00		4"	1.270	15.280	183.36
	2.550	30.600	367.20	1-1/4" x 1-3/8"	.487	5.840	70.13	
	2.980	35.760	429.12		1-1/2"	.531	6.375	76.50
7/8" x 1"	.248	2.975	35.70		1-5/8"	.576	6.900	82.80
	.279	3.350	40.20		1-3/4"	.620	7.438	89.26
	.310	3.719	44.63		2"	.708	8.500	102.00
	.341	4.090	49.00	2-1/4"	.797	9.563	114.80	
	.372	4.463	53.56	2-1/2"	.885	10.630	127.60	
.434	5.206	62.47	2-3/4"	.974	11.690	140.00		
.496	5.950	71.40	3"	1.060	12.750	153.00		
.558	6.696	80.35	3-1/4"	1.150	13.800	165.60		
.620	7.438	89.26	3-1/2"	1.240	14.880	178.60		
.682	8.180	98.16	4"	1.420	17.000	204.00		
.744	8.925	107.10	4-1/4"	1.510	18.062	216.75		
.868	10.410	124.90	4-1/2"	1.590	19.126	229.51		
.992	11.900	142.80	5"	1.770	21.250	255.00		
1.120	13.440	161.28	6"	2.130	25.500	306.00		
1.240	14.880	178.50	7"	2.480	29.760	357.00		
1.490	17.850	214.20	8"	2.830	34.000	408.00		
1.730	20.880	250.56	10"	3.540	42.500	510.00		
1.980	23.800	285.60	12"	4.250	51.000	612.00		
2.480	29.750	357.00	14"	4.960	59.500	714.00		
2.980	35.700	428.40	1-3/8" x 1-1/2"	.584	7.010	84.12		
3.480	41.650	500.00		2"	.779	9.348	112.18	
1" x 1-1/8"	.319	3.828		45.93	3"	1.170	14.040	168.48
	.354	4.250	51.00	1-1/2" x 1-3/4"	.744	8.920	107.10	
	.390	4.680	56.16		2"	.850	10.200	122.40
	.425	5.100	61.20		2-1/4"	.956	11.480	137.80
	.460	5.523	66.27		2-1/2"	1.060	12.750	153.00
.496	5.950	71.40	2-3/4"		1.170	14.040	168.48	
.567	6.800	81.60	3"	1.280	15.300	183.60		
.637	7.650	92.33	3-1/4"	1.380	17.500	198.90		
.708	8.500	102.00	3-1/2"	1.490	17.850	214.20		
.779	9.350	112.20	3-3/4"	1.590	19.130	229.51		
.850	10.200	122.40	4"	1.700	20.400	244.80		
.921	11.050	132.60	4-1/4"	1.810	21.680	260.12		
.992	11.900	142.80	4-1/2"	1.910	22.920	275.04		
1.060	12.750	153.00	5"	2.13	25.50	306.00		
1.130	13.600	163.20	5-1/2"	2.34	28.08	336.96		
1.200	14.450	173.40	6"	2.55	30.60	367.20		
1.280	15.300	183.60	7"	2.98	35.70	428.40		
1.420	17.000	204.00	8"	3.40	40.80	489.60		
1.560	18.720	224.64	10"	4.25	51.00	612.00		
1.700	20.400	244.80	12"	5.10	61.20	734.40		
1.840	22.080	264.96	1-3/4" x 2"	.992	11.90	142.80		
1.980	23.800	285.60		2-1/4"	1.12	13.44	161.28	
2.270	27.200	326.40		2-1/2"	1.24	14.88	178.60	
2.550	30.600	367.20		2-3/4"	1.36	16.32	195.80	
2.830	34.000	408.00		3"	1.49	17.85	214.20	
3.400	40.800	489.60	3-1/4"	1.61	19.34	232.06		
3.970	47.600	571.20	3-1/2"	1.74	20.88	250.60		
1-1/8" x 1-1/4"	.399	4.780	57.38	4"	1.98	23.80	285.60	
	.438	5.260	63.12	4-1/2"	2.23	26.78	321.31	
	.478	5.740	68.85	5"	2.48	29.76	357.20	
	.558	6.694	80.33	5-1/2"	2.73	32.73	392.70	
	.638	7.650	91.80	6"	2.98	35.70	428.40	
	.717	8.606	103.28	8"	3.97	47.60	571.00	

# CARBON STEEL WEIGHTS

## FLATS-Continued

Estimated Weight, Lbs.				Estimated Weight, Lbs.					
Size in Inches	Per Inch	Per Foot	12 Ft. Bar	Size in Inches	Per Inch	Per Foot	12 Ft. Bar		
1-3/4" x 10"	4.96	59.52	714.24	2-1/2" x 3"	2.13	25.50	306.00		
	5.95	71.40	856.80		3-1/4"	2.30	27.63	331.50	
2" x	2-1/4"	1.28	15.36	184.30	3-1/2"	2.48	29.75	357.00	
	2-1/2"	1.42	17.00	204.00	3-3/4"	2.66	31.88	382.51	
	2-3/4"	1.56	18.72	224.60	4"	2.83	34.00	408.00	
	3"	1.70	20.40	244.80	4-1/2"	3.19	38.25	459.00	
	3-1/4"	1.84	22.10	265.20	5"	3.54	42.50	510.00	
	3-1/2"	1.98	23.80	285.60	5-1/2"	3.90	46.75	561.00	
	3-3/4"	2.13	25.50	306.00	6"	4.25	51.00	612.00	
	4"	2.27	27.20	326.00	8"	5.67	68.00	816.00	
	4-1/4"	2.41	28.90	346.80	12"	8.50	102.00	1224.00	
	4-1/2"	2.55	30.60	367.00	3" x	3-1/2"	2.98	35.76	429.12
	5"	2.83	34.00	408.00		4"	3.40	40.80	489.60
	5-1/2"	3.12	37.44	449.28	4-1/2"	3.83	45.90	551.00	
	6"	3.40	40.80	489.60	5"	4.25	51.00	612.00	
	6-1/2"	3.68	44.20	530.40	5-1/2"	4.68	56.10	673.20	
7"	3.97	47.60	571.20	6"	5.10	61.20	734.40		
8"	4.53	54.40	652.80	7"	5.95	71.40	856.80		
9"	5.10	61.20	734.40	8"	6.80	81.60	979.20		
10"	5.67	68.00	816.00	3-1/2" x	4"	3.97	47.60	571.00	
12"	6.80	81.60	979.20		5"	4.96	59.50	714.00	
2-1/4" x	2-1/2"	1.59	19.13		229.50	6"	5.95	71.40	857.00
	3"	1.91	22.95	275.40	8"	7.93	95.20	1142.40	
	4"	2.55	30.60	367.20	4" x	5"	5.67	68.04	816.48
	4-1/2"	2.87	34.43	413.10		6"	6.80	81.60	979.20
	5"	3.19	38.25	459.00		8"	9.07	108.84	1306.08
	6"	3.83	45.90	551.00					



# CARBON STEEL

## FOR COLD FINISHED CARBON BARS AND SHAFTING

Size, Inches	Maximum of Carbon Range 0.28% or less	Maximum of Carbon Range Over 0.28% to 0.55% incl.	FATIGUE-PROOF STRESSPROOF (C-1144)	Maximum of Carbon Range Over 0.55% or Heat Treated (all Carbons)
	Minus	Minus	Minus	Minus

### SQUARES — COLD DRAWN

To 3/4" incl. ....	0.002	0.004	0.005	0.007
Over 3/4" to 1-1/2" incl. ....	0.003	0.005	0.006	0.008
Over 1-1/2" to 2-1/2" incl. ....	0.004	0.006	0.007	0.009
Over 2-1/2" to 4" incl. ....	0.006	0.008	0.009	0.011
Over 4" to 6" incl. ....	0.008	-	-	-

### FLATS — COLD FINISHED

WIDTH, IN INCHES*	*The tolerances for flats apply to thickness as well as width.*			
To 3/4" incl. ....	.003	-	-	-
Over 3/4" to 1-1/2" incl. ....	.004	-	-	-
Over 1-1/2" to 3" incl. ....	.005	-	-	-
Over 3" to 4" incl. ....	.006	-	-	-
Over 4" to 6" incl. ....	.008	-	-	-
Over 6" ....	.013	-	-	-

Size, Inches	Maximum of Carbon Range 0.28% or less	Maximum of Carbon Range Over 0.28% to 0.55% incl.	FATIGUE-PROOF STRESSPROOF (C-1144)	Maximum of Carbon Range Over 0.55% or Heat Treated
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### ROUNDS — COLD DRAWN OR TURNED AND POLISHED

To 1-1/2" incl. ....	0.002	0.003	0.004	0.005
Over 1-1/2" to 2-1/2" incl. ....	0.003	0.004	0.005	0.006
Over 2-1/2" to 4" incl. ....	0.004	0.005	0.006	0.007
Over 4" to 6" incl. ....	0.005	0.006	0.007	0.008
Over 6" to 8" incl. ....	0.006	0.007	0.008	0.009
Over 8" to 9" incl. ....	0.007	-	-	-
Over 9" to 10" incl. ....	0.008	-	-	-

### HEXAGONS — COLD DRAWN

To 3/4" incl. ....	0.002	0.003	0.004	0.006
Over 3/4" to 1-1/2" incl. ....	0.003	0.004	0.005	0.007
Over 1-1/2" to 2-1/2" incl. ....	0.004	0.005	0.006	0.008
Over 2-1/2" to 3-1/8" incl. ....	0.005	0.006	0.007	0.009

**NOTE:** The tolerances for flats apply to thickness as well as width for cold finished flats.

**STRAIGHTNESS:** cold finished carbon steel bars are machine straightened within reasonable limits and are suitable for the majority of industrial uses. The degree of straightness is satisfactory for operation in an automatic screw machine.

\* ALL TOLERANCES ON THIS PAGE ARE A CLOSE APPROXIMATION BASED ON VARIOUS MILL MFG. PRACTICES