



HARBOR STEEL
REFERENCE
GUIDE



Material Color Code WI 3010

HOT ROLL THICKNESS COLOR CODE CR SHEETS INCLUDED

HOT ROLL SHEETS, CR SHEETS, PLATES, ANGLES,
FLATS, ROUNDS AND TUBES

BLACK	24 GA
YELLOW	22 GA
RED	20 GA
GRAY	18 GA
GOLD	16 GA
WHITE	14 GA
BROWN	13 GA
ORANGE	12 GA
GREEN	11 GA (1/8")
BLUE	10 GA
PURPLE	8 GA
RED	7 GA / 3/16 (Bar Stock)
WHITE	RED 3/16" (plates)
YELLOW	1/4"
WHITE	5/16"
BLUE	3/8"
GREEN	7/16"
ORANGE	1/2"
BLACK	9/16"
GRAY	5/8"
GOLD	3/4"
BROWN	7/8"
WHITE	1"

Note:

Hot roll over 1 inch thick will
be color coded the same as
it's fractional value

Example:

1 1/4	YELLOW
1 1/2	ORANGE
1 3/4	GOLD

Note:

Hot Roll rounds and Squares
4" and over will be painted
white unless they are an alloy
or 1018 HR

Miscellaneous

FOR ELECTRIC WELD TUBING USE ABOVE COLOR
CODES FOR WALL THICKNESS

FLOR GREEN	ALL D.O.M. TUBING
ORANGE	BRASS
RED	HOT ROLL P&O BARS
BLUE	#4 EDGE CONDITIONED BARS

PURPLE	SCHEDULE 10 STRUCTURAL PIPE
WHITE	SCHEDULE 40 STRUCTURAL PIPE
GOLD	SCHEDULE 80 STRUCTURAL PIPE

NO COLOR	SCHEDULE 40 BLACK PIPE
YELLOW	SCHEDULE 80 BLACK PIPE

RED	STRIPE FOR P&O SHEETS & PLATE
BLUE	STRIPE FOR TEMPER PASS SHEETS
NO COLOR	FOR PLAIN A-36 HR SHEETS NO COLOR IN CENTER

STAINLESS STEEL COLOR CODE SS ROUNDS, PLATS, ANGLES, CHANNELS

NOTE: ss sheets will have grade color coded on corners and thickness in center
according to HR/CR thickness color codes

BLACK	303 SS
PINK	304 SS
PURPLE	304 SS TRUE BAR
RED	316 SS
BLUE	416 SS
FLOR GREEN	17-4 SS Bar Stock
FLOR GREEN	430 SS Sheets

ALUMINUM COLOR CODE ALL ALUMINUM

RED	2024 ALUM
BLUE	6061 ALUM
ORANGE	5052 & TOOL & JIG
BROWN	2011 ALUM
YELLOW	2017 ALUM
GREEN	6063 ALUM

STEEL ALLOY COLOR CODE

GREEN	1018 CR
RED	1117 CR
ORANGE	11L17 CR
YELLOW	1045 CR
WHITE	12L14 CR
BLUE	1215 CR
WHITE	1144 CR
PURPLE	XF100
GOLD	A-311 STRESSPROOF G&P
GREEN	WHITE 4140 CR/HR
GREEN	ORANGE 41L40 CR/HR
GREEN	RED 4130 CR/HR
RED	BLACK 4340 CR/HR
PINK	YELLOW ETD-150
BROWN	BROWN 8820 CR/HR
BROWN	WHITE 88L20 CR/HR
WHITE	WHITE 1018 HR
GREEN	YELLOW A-572/A-807
FLOR GREEN	FLOR GREEN A-R 200
FLOR GREEN	WHITE A-R 400
FLOR GREEN	BLUE A-R-500
BLUE	YELLOW A-588 / CORTEN
YELLOW	WHITE A-516 / PVQ
GOLD	A-514 / T-1 PLATE

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PLATE & SHEET

Weight of Thicknesses of Rolled Carbon Steel Plate

Thickness	Lbs. Per Sq. In.	Lbs. Per Sq. Ft.
3/16	.0532	7.66
1/4	.0709	10.21
5/16	.0886	12.76
3/8	.1064	15.31
7/16	.1241	17.87
1/2	.1418	20.42
9/16	.1595	22.97
5/8	.1773	25.53
3/4	.2127	30.63
7/8	.2481	35.73
1	.2836	40.84
1 1/8	.3190	45.94
1 1/4	.3545	51.05
1 3/8	.3900	56.16
1 1/2	.4254	61.26
1 5/8	.4609	66.37
1 3/4	.4963	71.47
2	.5672	81.68
2 1/4	.6381	91.89
2 3/8	.6736	97.00
2 1/2	.7090	102.10
2 3/4	.7799	112.31
3	.8508	122.52
3 1/4	.9217	132.72
3 1/2	.9926	142.94
3 3/4	1.064	153.15
4	1.134	163.36
4 1/4	1.205	173.57
4 1/2	1.276	183.78
4 3/4	1.347	193.99
5	1.418	204.20
5 1/2	1.560	224.62
6	1.702	245.04

Above weights are based on Metric Density unit of .2836
(International System of units).

PLATE & SHEET

Hot Rolled Carbon Steel Plate

ASTM A36

Grade 50 available through 4"



Thickness	Lbs. Per Sq. Ft.	Size A B	Lbs. Per Plate
3/16	7.66	48 x 96	245.03
		48 x 120	306.29
		48 x 144	367.68
		60 x 96	306.40
		60 x 120	382.86
		60 x 144	459.60
		60 x 240	765.72
		72 x 120	459.60
		72 x 144	551.32
		72 x 240	918.86
1/4	10.21	96 x 240	1,225.15
		48 x 96	326.71
		48 x 120	408.38
		48 x 144	490.06
		48 x 240	816.79
		60 x 96	408.40
		60 x 120	510.48
		60 x 144	612.60
		60 x 240	1,020.96
		72 x 120	612.60
5/16	12.76	72 x 144	735.09
		72 x 240	1,225.15
		60 x 96	408.38
		96 x 240	1,633.54
		48 x 96	408.32
		48 x 120	510.40
		48 x 144	612.48
		60 x 96	510.40
		60 x 120	638.00
		60 x 144	918.60
3/8	15.31	72 x 120	765.60
		72 x 240	1,531.44
		96 x 240	2,041.92
		48 x 96	490.06
		48 x 120	612.58
		48 x 144	734.88
		60 x 96	612.40
		60 x 120	765.72
		60 x 144	918.60
		60 x 240	1,531.44
		72 x 120	918.60

PLATE & SHEET

Hot Rolled Carbon Steel Plate (con't)

Thickness	Lbs. Per Sq. Ft.	Size A B	Lbs. Per Plate
1/2	20.42	72 x 144	1,102.64
		72 x 240	1,837.73
		96 x 240	2,450.30
		48 x 96	653.41
		48 x 120	816.77
		48 x 144	980.16
		60 x 96	816.80
5/8	25.53	60 x 120	1,020.96
		60 x 144	1,225.20
		60 x 240	2,041.92
		72 x 240	2,450.30
		96 x 240	3,267.07
		48 x 96	816.77
		48 x 240	2,042.40
3/4	30.63	60x 120	1,276.50
		72 x 288	3,675.46
		96 x 240	4,083.84
		96 x 288	4,900.61
		48 x 96	980.12
		48 x 120	1,225.20
		60 x 240	3,062.88
7/8	35.74	72 x 240	3,675.46
		96 x 240	4,900.61
		96 x 240	4,900.61
		96 x 240	5,718.40
		48 x 96	1,306.83
		60 x 240	4,084.00
		72 x 240	4,900.61
1	40.84	96 x 240	6,534.14
		72 x 240	5,514.00
		96 x 240	7,350.91
		48 x 96	1,633.54
		60 x 240	5,105.00
		96 x 240	8,167.68
		96 x 240	18,985.60
1 1/8	45.95	48 x 96	1,960.24
		60 x 240	6,126.00
		72 x 240	7,351.20
		96 x 240	9,801.22
		96 x 240	10,617.98
		96 x 240	11,435.20
		96 x 240	11,435.20
1 3/8	56.16	48 x 96	2,613.66
		72 x 240	9,801.60
		96 x 120	6,534.40
		96 x 240	13,068.29
		96 x 288	15,681.95
		96 x 240	14,702.40
		96 x 240	14,702.40
1 1/2	61.26	72 x 240	12,252.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
1 5/8	66.37	96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
1 3/4	71.47	96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
2	81.68	96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
2 1/4	91.89	96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
2 1/2	102.10	96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00
		96 x 120	8,168.00

PLATE & SHEET

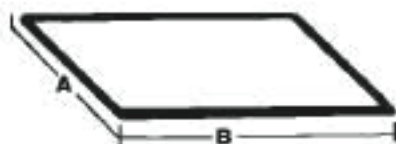
Hot Rolled Carbon Steel Plate (con't)

Thickness	Lbs. Per Sq. Ft.	Size A B	Lbs. Per Plate
2 3/4	112.31	96 x 240	17,969.60
3	122.52	96 x 120	9,801.22
		96 x 240	19,603.20
3 1/2	142.94	96 x 240	22,870.40
4	163.36	96 x 240	26,137.60
4 1/2	183.78	96 x 240	29,404.80
5	204.20	96 x 240	32,672.00
6	245.04	96 x 240	39,206.40

PLATE & SHEET

Cold Rolled Sheet

ASTM A 1011
Commercial Quality, Oiled



Gauge	Thickness Decimal	Size A B	Lbs. Per Sq. Ft.	Est. Lbs. Per Sheet
10 GA	.1345	48 x 96	5.625	180.0
		48 x 120		225.0
		48 x 144		270.0
11 GA	.1196	60 x 120	5.00	281.3
		60 x 144		337.5
		48 x 96		160.0
		48 x 120		200.0
		48 x 144		240.0
12 GA	.1046	60 x 120	4.375	250.0
		60 x 144		300.0
		48 x 96		140.0
		48 x 120		175.0
		48 x 144		210.0
13 GA	.0897	60 x 120	3.750	218.8
		60 x 144		262.5
		48 x 96		120.0
		48 x 120		150.0
		48 x 144		180.0
14 GA	.0747	60 x 120	3.125	187.5
		60 x 144		225.0
		48 x 96		100.0
		48 x 120		125.0
		48 x 144		150.0
16 GA	.0598	60 x 120	2.500	156.3
		60 x 144		187.5
		48 x 96		80.0
		48 x 120		100.0
		48 x 144		120.0
18 GA	.0478	60 x 120	2.000	125.0
		60 x 144		150.0
		48 x 96		64.0
		48 x 120		80.0
		48 x 144		96.0
20 GA	.0359	60 x 120	1.500	100.0
		60 x 144		120.0
		48 x 96		48.0
		48 x 120		60.0
		48 x 144		72.0
22 GA	.0299	60 x 120	1.250	75.0
		60 x 144		90.0
		48 x 96		40.0
		48 x 120		50.0
		48 x 144		60.0
		60 x 120		62.5
		60 x 144		75.0

PLATE & SHEET



Hot Rolled Carbon Steel Floor Plate

Raised Pattern

Thickness	Lbs. Per Sq. Ft.	Size	Lbs. Per Plate
14 Ga	3.75	48 x 96	120.00
		48 x 120	150.00
1/8	6.16	48 x 96	196.80
		48 x 120	246.00
		60 x 120	307.50
		72 x 120	369.00
3/16	8.71	48 x 96	278.72
		48 x 120	348.40
		48 x 240	696.80
		60 x 120	435.50
		60 x 240	871.00
		72 x 240	1,045.20
1/4	11.26	96 x 240	1,393.60
		48 x 96	360.32
		48 x 120	450.40
		48 x 240	900.80
		60 x 120	563.00
		60 x 240	1,126.00
		72 x 240	1,351.20
		96 x 240	1,801.60
3/8	16.37	48 x 96	523.84
		48 x 120	654.80
		60 x 120	818.50
		60 x 240	1,637.00
		72 x 240	1,964.40
1/2	21.47	96 x 240	2,619.20
		48 x 96	687.04
		48 x 120	858.80
		60 x 120	1,073.50
		96 x 240	3,435.20

Note: Thickness refers to body of plate, not including raised pattern.

PLATE & SHEET

Hot Rolled Sheet

ASTM A1011 CS, Commercial Quality



Thickness		Size		Lbs. Per	Lbs.
Gauge	Decimal	A	B	Sq. Ft.	Per Sheet
7 GA	.1793	48 x 96		7.50	240.0
		48 x 120			300.0
		48 x 144			360.0
		60 x 96			300.0
		60 x 120			375.0
		60 x 144			450.0
10 GA	.1345	72 x 120		5.625	450.0
		48 x 96			180.0
		48 x 120			225.0
		48 x 144			270.0
		60 x 96			225.0
		60 x 120			281.3
		60 x 144			337.5
		72 x 120			337.5
11 GA	.1196	72 x 144		5.000	405.0
		48 x 96			160.0
		48 x 120			200.0
		48 x 144			240.0
		60 x 96			200.0
		60 x 120			250.0
		60 x 144			300.0
		72 x 120			300.0
12 GA	.1046	72 x 144		4.375	360.0
		48 x 96			140.0
		48 x 120			175.0
		48 x 144			210.0
		60 x 96			175.0
		60 x 120			218.8
		60 x 144			262.5
		72 x 120			262.5
13GA	.0897	72 x 144		3.75	315.0
		48 x 96			120.0
		48 x 120			150.0
		48 x 144			180.0
		60 x 96			150.0
		60 x 120			187.5
		60 x 144			225.0
		72 x 120			225.0
14 GA	.0747	72 x 144		3.125	270.0
		48 x 96			100.0
		48 x 120			125.0
		48 x 144			150.0
		60 x 96			125.0
		60 x 120			156.3
		60 x 144			187.5
		72 x 120			187.5
		72 x 144			225.0

MOST OF THE ABOVE GAUGES AND SIZES ARE ALSO AVAILABLE IN PICKLE
AND OILED IN 5,000# QUANTITIES. IDEA MATERIAL FOR LASERS.

Harbor Steel

PLATE & SHEET

Hot Rolled Sheet

ASTM A1011 CS, Commercial Quality



Thickness		Size		Lbs. Per	Lbs.
Gauge	Decimal	A	B	Sq. Ft.	Per Sheet
16 GA	.0598	48 x 96		2.500	80.0
		48 x 120			100.0
		48 x 144			120.0
		60 x 96			100.0
		60 x 120			125.0
		60 x 144			150.0

MOST OF THE ABOVE GAUGES AND SIZES ARE ALSO AVAILABLE IN PICKLE
AND OILED IN 5,000# QUANTITIES. IDEA MATERIAL FOR LASERS.

Harbor Steel

PLATE & SHEET



Galvanized Sheet

ASTM A526 (14 ga. and heavier,
Commercial Quality)

ASTM A527 (16 ga. and lighter,
Lock-forming Quality)

Est. Lbs include the weight
of the Zinc

ASTM A653 Type B 090

Gauge	Size		Lbs. Per Sq. Ft.	Lbs. Per Sheet
A	B			
10 GA	48 x 96		5.781	185.0
	48 x 120			231.2
	48 x 144			277.5
	60 x 96			231.2
	60 x 120			289.0
	60 x 144			346.9
11 GA	48 x 96		5.250	168.0
	48 x 120			210.0
	48 x 144			252.0
	60 x 96			210.0
	60 x 120			262.5
	60 x 144			315.0
12 GA	48 x 96		4.531	145.0
	48 x 120			181.2
	48 x 144			217.5
	60 x 96			181.2
	60 x 120			225.0
	60 x 144			271.9
14 GA	48 x 96		3.281	105.0
	48 x 120			131.2
	48 x 144			157.5
	60 x 96			131.2
	60 x 120			164.1
	60 x 144			196.9
16 GA	48 x 96		2.656	85.0
	48 x 120			106.2
	48 x 144			127.5
	60 x 96			106.2
	60 x 120			132.8
	60 x 144			159.4
18 GA	48 x 96		2.156	69.0
	48 x 120			86.2
	48 x 144			103.5
	60 x 96			86.2
	60 x 120			107.8
	60 x 144			129.4
20 GA	48 x 96		1.656	53.0
	48 x 120			66.2
	48 x 144			79.5
	60 x 96			66.2
	60 x 120			82.8
	60 x 144			99.4

PLATE & SHEET



Galvanized Sheet

ASTM A526 (14 ga. and heavier,
Commercial Quality)

ASTM A527 (16 ga. and lighter,
Lock-forming Quality)

Est. Lbs include the weight
of the Zinc

ASTM A653 Type B 090

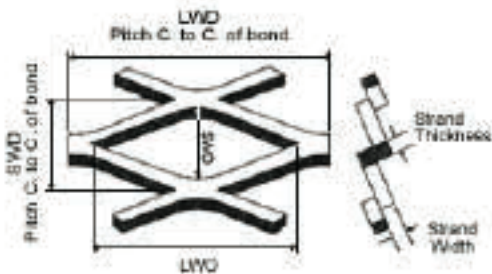
Gauge	Size		Lbs. Per Sq. Ft.	Lbs. Per Sheet
	A	B		
22 GA	48	x 96	1.406	45.0
	48	x 120		56.2
	48	x 144		67.5
	60	x 96		56.2
	60	x 120		70.3
	60	x 144		84.4
24 GA	48	x 96	1.156	37.0
	48	x 120		46.2
	48	x 144		55.5
	60	x 96		46.2
	60	x 120		57.8
	60	x 144		69.4
26 GA	48	x 96	.906	29.0
	48	x 120		36.2
	48	x 144		43.5
	60	x 96		36.2
	60	x 120		45.3
	60	x 144		54.4

Galvanized sheets are continuously hot-dipped with a protective coating of zinc. Coating is G90 (1.25 oz per square foot).

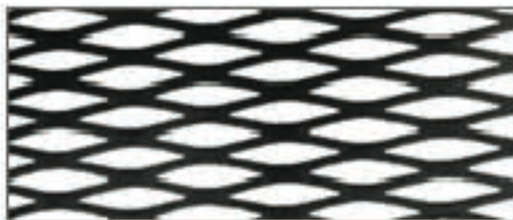
Galvanized sheets can be formed, rolled or otherwise fabricated at room temperature without disrupting their protective qualities.

Applications include heating and ventilation ducts, roof flashing, electrical boxes, and many general maintenance applications.

REGULAR EXPANDED METAL is a finished product as it comes from the press after having been die cut and expanded. The illustration shows that the strands and bonds angle to the original plane of the solid sheet.



1/4" #20 Regular



1/2" #16 Regular



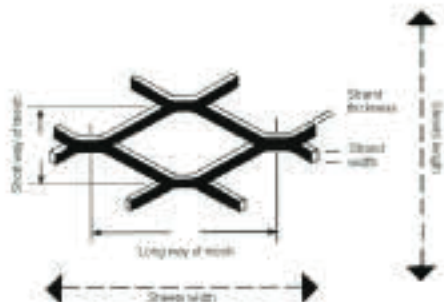
3/4" #9 Regular



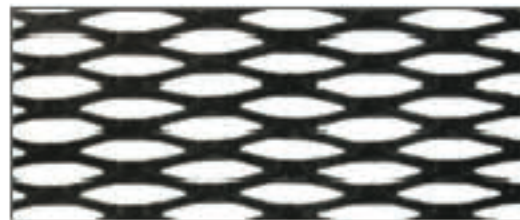
1 1/2" #9 Regular



FLATTENED EXPANDED METAL is a regular expanded metal which has been cold rolled, leaving a flat, smooth surface. The length of the sheet is elongated, usually by 5% while the width stays the same.



1/4" #20 Flattened



1/2" #16 Flattened



3/4" #9 Flattened



1 1/2" #9 Flattened



EXPANDED METAL & GRATING

Expanded Metal

Carbon Steel
Standard (Raised)



Size Designation*	Sheet Size	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening in Inches
1/4 x #18	48 x 96	1.14	.145 x .718
1/2 x #16	48 x 96	.86	.375 x .938
x #13	48 x 96	1.47	.312 x .938
3/4 x #16	48 x 96	.54	.813 x 1.750
x #13	48 x 96	.80	.750 x 1.688
	48 x 120		
	60 x 120		
x #9	48 x 96	1.80	.688 x 1.562
	48 x 120		
	60 x 120		
1 1/2 x #13	72 x 120		
	48 x 96	.60	1.188 x 2.500
	60 x 120		
x #9	48 x 96	1.20	1.125 x 2.375
x #6	48 x 96	2.50	1.000 x 2.313

NOTE: Stock sizes only shown above. Other sizes available from factory stock.

*The first number represents the nominal width of diamond in inches measured from center to center of bonds, and the second number represents the approximate gage of sheet or plate before expanding.

Flattened Expanded Metal



Size Designation*	Sheet Size	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening in Inches
1/4 x #18	48 x 96	1.08	.118 x .715
1/2 x #16	48 x 96	.82	.312 x 1.000
x #13	48 x 96	1.40	.265 x 1.000
3/4 x #16	48 x 96	.51	.750 x 1.750
x #13	48 x 96	.75	.688 x 1.781
	48 x 120		
x #9	48 x 96	1.71	.563 x 1.688
	48 x 120		
	60 x 120		
	72 x 144		
1 1/2 x #13	48 x 96	.57	1.062 x 2.750
x #9	48 x 96	1.14	1.000 x 2.563

NOTE: Stock sizes only shown above. Other sizes available from factory stock.

*The first number represents the nominal width of diamond in inches measured from center to center of bonds, and the second number represents the approximate gage of sheet or plate before expanding.

Harbor Steel

EXPANDED METAL & GRATING

Expanded Metal Grating



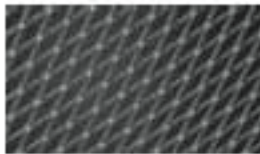
Carbon Steel — Regular

Style	Weight In Lbs. Per c.s.f.		Standard Sizes in Ft.	Size of Openings In Inches		Center to Center of Bond In Inches		Size of Strands In Inches		Percent Open Area	Overall Thickness In Inches
	Plain	Galv		Width-Length	Width-Length	Width-Length	Width-Length	Width-Thickness	Width-Thickness		
3 lb.	300	320	4-6	8-10	.938 3.438	1.333 5.33	.261 .183	.261 .183	.261 .183	73	.500
3.14 lb.	314	334	4-6	8-10	1.625 4.875	2.000 6.00	.308 .250	.308 .250	.308 .250	74	.562
4 lb.	400	430	4-5-6	8-10	.938 3.438	1.333 5.33	.297 .215	.297 .215	.297 .215	65	.625
4.27 lb.	427	457	4-6	8-10	1.000 2.875	1.412 4.00	.297 .250	.297 .250	.297 .250	58	.625
5 lb.	500	550	4-5-6	8-10	.813 3.375	1.333 5.33	.327 .250	.327 .250	.327 .250	52	.625
6.25 lb.	625	685	4-6	8	.813 3.375	1.412 5.33	.347 .312	.347 .312	.347 .312	55	.750
7 lb.	700	750	4-6	8	.813 3.375	1.412 5.33	.338 .312	.338 .312	.338 .312	60	.750

Carbon Steel — Long Length SWD

3 lb.	300	320	10	2-21/2-3	.938 3.438	1.333 5.33	.261 .183	.261 .183	.261 .183	73	.500
3.14 lb.	314	334	10	2-21/2-3	1.625 4.875	2.000 6.00	.308 .250	.308 .250	.308 .250	74	.562
4 lb.	400	430	10	2-21/2-3	.938 3.438	1.330 5.33	.297 .215	.297 .215	.297 .215	65	.625
4.27 lb.	427	457	10	2-21/2-3	1.000 2.875	1.412 4.00	.297 .250	.297 .250	.297 .250	58	.625
5 lb.	500	550	10	2-21/2-3	.813 3.375	1.333 5.33	.327 .250	.327 .250	.327 .250	52	.625

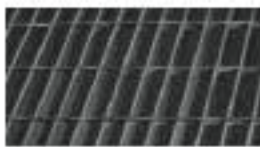
EXPANDED METAL & GRATING



Stainless Steel Expanded Metal

T304 Flattened

Size Designation	Sheet Size	Est. Lbs. Per Sq. Ft.	Approx. Size of Opening In Inches
1/2 x #18	48 x 96	0.69	.313 x 1.000
x #16	48 x 96	0.86	.313 x 1.000
x #13	48 x 96	1.78	.250 x 1.000
3/4 x #13	48 x 96	0.87	.625 x 1.750
x #9	48 x 96	1.95	.563 x 1.688



Galvanized or Painted Black Welded Steel Bar Grating Plain or Serrated

13 1/4" x 4" Center to Center

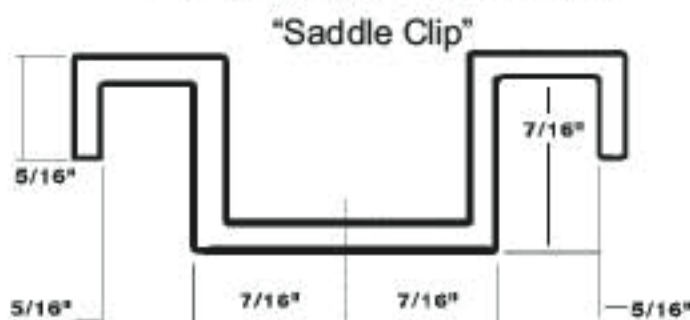
1/8" or 3/16" Bearing Bars

Possible Stock Lengths 20 Ft. and 24 Ft.

Bearing Bar Size	Width in Ft.	Lbs. Per Sq. Ft.
1 x 1/8	2 & 3	5.1
x 3/16	2 & 3	7.3
1 1/4 x 3/16	2 & 3	8.9
1 1/2 x 1/8	2 & 3	7.3
x 3/16	2 & 3	10.6

NOTE: Stocked sizes shown above. Other sizes and grating cut to your drawing are available.

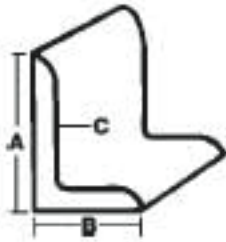
Fastener, Bar Grating



Heavy-duty steel Hold-Down Clip. Use with 3/8" square shank carriage bolts, nuts and washers obtained locally.

STRUCTURAL & BAR SHAPES

When the greatest dimension of a steel shape is less than 3", it is classified a "Bar Shape". When at least one dimension is 3" or greater, it is classified a "Structural Shape".

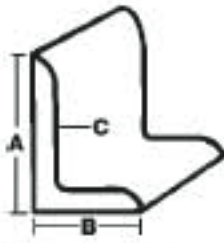


Bar Angles

ASTM A36
Stock Lengths
20 Ft. and 40 Ft.

Size in Inches			Lbs. Per Ft.	Lbs. Per 20'
A	B	C		
1/2	x 1/2	x 1/8	.38	7.60
3/4	x 3/4	x 1/8	.59	11.80
1	x 1	x 1/8	.80	16.00
1 1/4	x 1 1/4	x 3/16	1.16	23.20
		x 1/4	1.49	29.80
		x 1/8	1.01	20.20
		x 3/16	1.48	29.60
1 1/2	x 1 1/2	x 1/4	1.92	38.40
		x 1/8	1.23	24.60
		x 3/16	1.80	36.00
		x 1/4	2.34	46.80
1 3/4	x 1 3/4	x 3/16	2.12	42.40
		x 1/4	2.77	55.40
		x 1/8	1.44	28.80
		x 3/16	2.12	42.40
2	x 1 1/2	x 1/4	2.77	55.40
		x 1/8	1.65	33.00
		x 3/16	2.44	48.80
		x 1/4	3.19	63.80
2	x 2	x 5/16	3.92	78.40
		x 3/8	4.70	94.00
		x 3/16	2.75	55.00
		x 1/4	3.62	72.40
2 1/2	x 2 1/2	x 3/16	3.07	61.40
		x 1/4	4.10	82.00
		x 5/16	5.00	100.00
		x 3/8	5.90	118.00
		x 1/2	7.70	154.00

STRUCTURAL & BAR SHAPES



Structural Angles

ASTM A36
Stock Lengths
20 Ft. and 40 Ft.

Size in Inches			Lbs.	Lbs.
A	B	C	Per Ft.	Per 40'
3	x 2	x 3/16	3.1	124.0
		x 1/4	4.1	164.0
		x 5/16	5.0	200.0
		x 3/8	5.9	236.0
		x 1/2	7.7	308.0
3	x 2 1/2	x 1/4	4.5	180.0
		x 5/16	5.6	224.0
		x 3/8	6.6	264.0
3	x 3	x 3/16	3.71	148.4
		x 1/4	4.9	196.0
		x 5/16	6.1	244.0
		x 3/8	7.2	288.0
		x 1/2	9.4	376.0
3 1/2	x 2 1/2	x 1/4	4.9	196.0
		x 5/16	6.1	244.0
		x 3/8	7.2	288.0
		x 1/2	9.4	376.0
3 1/2	x 3	x 1/4	5.4	216.0
		x 5/16	6.6	264.0
		x 3/8	7.9	316.0
		x 1/2	10.2	408.0
3 1/2	x 3 1/2	x 1/4	5.8	232.0
		x 5/16	7.2	288.0
		x 3/8	8.5	340.0
		x 1/2	11.1	444.0
4	x 3	x 1/4	5.8	232.0
		x 5/16	7.2	288.0
		x 3/8	8.5	340.0
		x 1/2	11.1	444.0
4	x 3 1/2	x 1/4	6.2	248.0
		x 5/16	7.7	308.0
		x 3/8	9.1	364.0
		x 1/2	11.9	476.0
4	x 4	x 1/4	6.6	264.0
		x 5/16	8.2	328.0
		x 3/8	9.8	392.0
		x 1/2	12.8	512.0
		x 5/8	15.7	628.0
		x 3/4	18.5	740.0
5	x 3	x 1/4	6.6	264.0
		x 5/16	8.2	328.0
		x 3/8	9.8	392.0
		x 1/2	12.8	512.0

STRUCTURAL & BAR SHAPES

Structural Angles (con't)

Size in Inches			Lbs.	Lbs.
A	B	C	Per Ft.	Per 40'
5	x 3 1/2	x 1/4	7.0	280.0
		x 5/16	8.7	348.0
		x 3/8	10.4	416.0
		x 1/2	13.6	544.0
		x 5/8	16.8	672.0
		x 3/4	19.8	792.0
5	x 5	x 5/16	10.3	412.0
		x 3/8	12.3	492.0
		x 1/2	16.2	648.0
		x 5/8	20.0	800.0
		x 3/4	23.6	944.0
		x 5/16	9.8	392.0
6	x 3 1/2	x 3/8	11.7	468.0
		x 1/2	15.3	612.0
		x 5/16	10.3	412.0
		x 3/8	12.3	492.0
		x 1/2	16.2	648.0
		x 5/8	20.0	800.0
6	x 4	x 3/4	23.6	944.0
		x 3/8	14.9	596.0
		x 1/2	19.6	784.0
		x 5/8	24.2	968.0
		x 3/4	28.7	1,148.0
		x 7/8	33.1	1,324.0
6	x 6	x 1	37.4	1,496.0
		x 3/8	13.6	544.0
		x 1/2	17.9	716.0
		x 5/8	22.1	884.0
		x 3/4	26.2	1,048.0
		x 1/2	19.6	784.0
8	x 4	x 3/4	28.7	1,148.0
		x 1/2	23.0	920.0
		x 3/4	33.8	1,352.0
		x 1	44.2	1,768.0
		x 1/2	26.4	1,056.0
		x 5/8	32.7	1,308.0
8	x 6	x 3/4	38.9	1,556.0
		x 1/2	45.0	1,800.0
		x 3/4	51.0	2,040.0
		x 7/8		
		x 1		

STRUCTURAL & BAR SHAPES

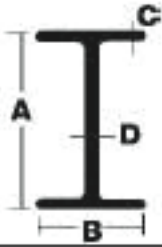


American Standard Beams

ASTM A36

Stock Lengths 20 Ft. and 40 Ft.

Size A		Lbs. Per Ft.	Depth B	Web Thickness D
3	x	5.7	2.330	.170
	x	7.5	2.509	.349
4	x	7.7	2.663	.193
	x	9.5	2.796	.326
5	x	10.0	3.004	.214
6	x	12.5	3.332	.232
	x	17.25	3.565	.465
7	x	15.3	3.662	.252
8	x	18.4	4.001	.271
	x	23.0	4.171	.441
10	x	25.4	4.661	.311
10	x	35.0	4.944	.594
12	x	31.8	5.000	.350
	x	40.8	5.252	.462



Wide Flange Beams

ASTM A992, A572 GR 50, A36

Stock Lengths 20 Ft.,
40 Ft., 45 Ft., 50 Ft. and 60 Ft.

Thickness Size		Lbs. Per Ft.	Depth A	Flange Width B	Flange Thickness C	Web D
4	x	13	4.16	4.060	.345	.280
5	x	16	5.01	5.000	.360	.240
	x	19	5.15	5.030	.430	.270
6	x	9	5.90	3.940	.215	.170
	x	12	6.03	4.000	.280	.230
	x	15	5.99	5.990	.260	.230
	x	16	6.28	4.030	.405	.260
	x	20	6.20	6.020	.365	.260
	x	25	6.38	6.080	.455	.320
8	x	10	7.89	3.940	.205	.170
	x	13	7.99	4.000	.255	.230
	x	15	8.11	4.015	.315	.245
	x	18	8.14	5.250	.330	.230
	x	21	8.28	5.270	.400	.250
	x	24	7.93	6.495	.400	.245
	x	28	8.06	6.535	.465	.285
	x	31	8.00	7.995	.435	.285
	x	35	8.12	8.020	.495	.310

STRUCTURAL & BAR SHAPES

Wide Flange Beams (con't)

Size		Lbs. Per Ft.	Depth A	Flange Width B	Flange Thickness C	Web Thickness D
8	x	40	8.25	8.070	.560	.360
	x	48	8.50	8.110	.685	.400
10	x	12	9.87	3.960	.210	.190
	x	15	9.99	4.000	.270	.230
	x	17	10.11	4.010	.330	.240
	x	19	10.24	4.020	.395	.250
	x	22	10.17	5.750	.360	.240
12	x	26	10.33	5.770	.440	.260
	x	30	10.47	5.810	.510	.300
	x	33	9.73	7.960	.435	.290
	x	39	9.92	7.985	.530	.315
	x	45	10.10	8.020	.620	.350
	x	49	9.98	10.000	.560	.340
	x	54	10.09	10.030	.615	.370
	x	14	11.91	3.970	.225	.200
	x	16	11.99	3.990	.265	.220
	x	19	12.16	4.005	.350	.235
	x	22	12.31	4.030	.425	.260
	x	26	12.22	6.490	.380	.230
	x	30	12.34	6.520	.440	.260
	x	35	12.50	6.560	.520	.300
	x	40	11.94	8.005	.515	.295
14	x	45	12.06	8.045	.575	.335
	x	50	12.19	8.080	.640	.370
	x	53	12.06	9.995	.575	.345
	x	58	12.19	10.010	.640	.360
	x	65	12.12	12.000	.605	.390
	x	22	13.74	5.000	.335	.230
	x	26	13.91	5.025	.420	.255
	x	30	13.84	6.730	.385	.270
	x	34	13.98	6.745	.455	.285
	x	38	14.10	6.770	.515	.310
	x	43	13.66	7.995	.530	.305
	x	48	13.79	8.030	.595	.340
	x	53	13.92	8.060	.660	.370
	x	26	15.69	5.500	.345	.250
	x	31	15.88	5.525	.440	.275
16	x	36	15.86	6.985	.430	.295
	x	40	16.01	6.995	.505	.305
	x	45	16.13	7.035	.565	.345
	x	50	16.26	7.070	.630	.380
	x	57	16.43	7.120	.715	.430
	x	35	17.70	6.000	.425	.300
	x	40	17.90	6.015	.525	.315
	x	46	18.06	6.060	.605	.360
	x	50	17.99	7.495	.570	.355

STRUCTURAL & BAR SHAPES

Wide Flange Beams (con't)

Thickness Size		Lbs. Per Ft.	Depth A	Flange Width B	Flange Thickness C	Web D
18	x	60	18.24	7.555	.695	.415
21	x	44	20.66	6.500	.450	.350
	x	50	20.83	6.530	.535	.380
	x	62	20.99	8.240	.615	.400
24	x	55	23.57	7.005	.505	.395
	x	60	23.73	8.965	.585	.415
	x	84	24.10	9.020	.770	.470



Bar Channels

ASTM A36
Stock Lengths 20 Ft.

Size in Inches A	B	C	Lbs. Per Ft.	Lbs. Per 20'
1	x 1/2	x 1/8	.84	16.80
1 1/4	x 1/2	x 1/8	1.01	20.20
1 1/2	x 1/2	x 1/8	1.12	22.40
2	x 1/2	x 1/8	1.43	28.60
2	x 5/8	x 1/4	2.28	45.60
	x 1	x 1/8	1.59	31.80
	x 1	x 3/16	2.32	46.40



Miscellaneous Channels

ASTM A36
Stock Lengths 20 Ft.

Size A		Lbs. Per Ft.	Web Thickness C	Flange Width B
3	x	7.1	.312	1.938
4	x	13.8	.500	2.500
6	x	12	.310	2.497
	x	15.3	.340	3.500
	x	16.3	.375	3.000
	x	18	.379	3.504
8	x	8.5	.179	1.874
	x	18.7	.353	2.978
	x	20	.400	3.025
	x	21.4	.375	3.450
	x	22.8	.427	3.502
9	x	25.4	.450	3.500
10	x	6.5	.152	1.127
	x	8.4	.170	1.500

STRUCTURAL & BAR SHAPES

Miscellaneous Channels (con't)

Size A		Lbs. Per Ft.	Web Thickness C	Flange Width B
10	x	22	.290	3.315
	x	25	.380	3.405
	x	28.5	.425	3.950
12	x	10.6	.190	1.500
	x	30.9	.450	3.450
	x	35	.467	3.767
	x	40	.590	3.890
	x	45	.712	4.012
	x	50	.835	4.135
18	x	42.7	.450	3.950
	x	45.8	.500	4.000



Structural Channels

ASTM A36
Stock Lengths 20 Ft.
and 40 Ft.

Size A		Lbs. Per Ft.	Web Thickness C	Flange Width B
3	x	3.5	.140	1.360
	x	4.1	.170	1.410
	x	5	.258	1.498
	x	6	.356	1.596
4	x	5.4	.184	1.584
	x	6.25	.247	1.647
	x	7.25	.321	1.721
5	x	6.7	.190	1.750
	x	9	.325	1.885
6	x	8.2	.200	1.920
	x	10.5	.314	2.034
	x	13	.437	2.157
7	x	9.8	.210	2.090
	x	12.25	.314	2.194
	x	14.75	.419	2.299
8	x	11.5	.220	2.260
	x	13.75	.303	2.343
	x	18.75	.487	2.527
9	x	13.4	.233	2.433
	x	15	.285	2.485
10	x	15.3	.240	2.600
	x	20	.379	2.739
	x	25	.526	2.886
	x	30	.673	3.033
12	x	20.7	.282	2.942
	x	25	.387	3.047
	x	30	.510	3.170
15	x	33.9	.400	3.400
	x	40	.520	3.520
	x	50	.716	3.716

Harbor Steel

STRUCTURAL & BAR SHAPES



Hot Rolled Bar Size Tees

ASTM A36

Stock Lengths 20 Ft.

Size in B	D	T	Lbs. Per Ft.	Lbs. Per 20'
1 1/4	x1 1/4	x3/16	1.55	31.00
1 1/2	x1 1/2	x3/16	1.90	38.00
2	x 2	x 1/4	3.62	72.40

HR BARS & REINFORCING



Hot Rolled Strip

Commercial Quality
Stock Lengths 20 Ft.

Size in Inches	Lbs. Per Ft.	Lbs. Per 20'
1/8 x 1/2	.2125	4.250
x 3/4	.3188	6.376
x 1	.4250	8.500
x 1 1/4	.5313	10.626
x 1 1/2	.6375	12.750
x 2	.8500	17.000
x 2 1/2	1.0630	21.260
x 3	1.2750	25.500
x 4	1.7000	34.000
x 5	2.1250	42.500
x 6	2.5500	51.000
x 8	3.4000	68.000
3/16 x 1/2	.3188	6.376
x 3/4	.4781	9.562
x 1	.6375	12.750
x 1 1/4	.7969	15.938
x 1 1/2	.9563	19.126
x 2	1.2750	25.500
x 2 1/2	1.5940	31.880
x 3	1.9130	38.260
x 4	2.5500	51.000
x 5	3.1880	63.760
x 6	3.8250	76.500
x 7	4.4625	89.250
x 8	5.1000	102.000

HR BARS & REINFORCING

Hot Rolled Flat Bars

ASTM A36, Square Edge
Stock Lengths 20 Ft.



Size in Inches	Lbs. Per Ft.	Lbs. Per 20'
1/4 x 1/2	.4250	8.50
1/4 x 3/4	.6375	12.75
1/4 x 1	.850	17.00
1/4 x 1 1/4	1.063	21.26
1/4 x 1 1/2	1.275	25.50
1/4 x 1 3/4	1.488	29.76
1/4 x 2	1.700	34.00
1/4 x 2 1/4	1.913	38.26
1/4 x 2 1/2	2.125	42.50
1/4 x 3	2.550	51.00
1/4 x 3 1/4	2.763	55.26
1/4 x 3 1/2	2.975	59.50
1/4 x 4	3.400	68.00
1/4 x 4 1/2	3.825	76.50
1/4 x 5	4.250	85.00
1/4 x 5 1/2	4.675	93.50
1/4 x 6	5.100	102.00
1/4 x 6 1/2	5.525	110.50
1/4 x 7	5.950	119.00
1/4 x 8	6.800	136.00
1/4 x 9	7.660	153.20
1/4 x 10	8.510	170.20
1/4 x 11	9.360	187.18
1/4 x 12	10.210	204.20
5/16 x 1	1.063	21.26
5/16 x 1 1/4	1.329	26.58
5/16 x 1 1/2	1.594	31.88
5/16 x 2	2.125	42.50
5/16 x 2 1/2	2.656	53.12
5/16 x 3	3.188	63.76
5/16 x 4	4.250	85.00
5/16 x 4 1/2	4.781	95.62
3/8 x 1/2	.638	12.76
3/8 x 3/4	.956	19.13
3/8 x 1	1.275	25.50
3/8 x 1 1/4	1.594	31.88
3/8 x 1 1/2	1.913	38.26
3/8 x 1 3/4	2.231	44.62
3/8 x 2	2.550	51.00
3/8 x 2 1/2	3.188	63.76
3/8 x 3	3.825	76.50
3/8 x 3 1/2	4.463	89.26
3/8 x 4	5.100	102.00
3/8 x 4 1/2	5.738	114.76
3/8 x 5	6.375	127.50
3/8 x 5 1/2	7.013	140.26
3/8 x 6	7.650	153.00

HR BARS & REINFORCING

Hot Rolled Flat Bars (con't)

Size in Inches	Lbs. Per Ft.	Lbs. Per 20'
x 6 1/2	8.288	165.76
x 7	8.925	178.50
x 8	10.200	204.00
x 9	11.490	229.80
x 10	12.770	255.40
x 11	14.040	280.80
x 12	15.320	360.40
1/2 x 3/4	1.275	25.50
x 1	1.700	34.00
x 1 1/4	2.125	42.50
x 1 1/2	2.550	51.00
x 1 3/4	2.975	59.50
x 2	3.400	68.00
x 2 1/4	3.825	76.50
x 2 1/2	4.250	85.00
x 3	5.100	102.0
x 3 1/4	5.525	110.5
x 3 1/2	5.950	119.0
x 4	6.800	136.0
x 4 1/2	7.650	153.0
x 5	8.500	170.0
x 5 1/2	9.350	187.0
x 6	10.200	204.0
x 6 1/2	11.050	221.0
x 7	11.900	238.0
x 8	13.600	272.0
x 9	15.320	306.4
x 10	17.020	340.4
x 11	18.720	374.4
x 12	20.420	408.4
5/8 x 1	2.125	42.5
x 1 1/4	2.656	53.1
x 1 1/2	3.188	63.8
x 2	4.250	85.0
x 2 1/2	5.313	106.3
x 3	6.375	127.5
x 3 1/2	7.438	148.8
x 4	8.500	170.0
x 4 1/2	9.563	191.3
x 5	10.630	212.0
x 6	12.750	255.0
x 7	14.880	297.0
x 8	17.000	340.0
x 9	15.320	306.4
x 10	17.020	340.4
x 12	20.420	408.4
3/4 x 1	2.550	51.0
x 1 1/4	3.186	63.7
x 1 1/2	3.825	76.5

HR BARS & REINFORCING

Hot Rolled Flat Bars (con't)

Size in Inches	Lbs. Per Ft.	Lbs. Per 20'
x 1 3/4	4.463	89.3
x 2	5.100	102.0
x 2 1/2	6.375	127.0
x 3	7.650	153.0
x 3 1/2	8.925	178.5
x 4	10.200	204.0
x 4 1/2	11.475	229.5
x 5	12.700	255.0
x 5 1/2	13.975	279.5
x 6	15.300	306.0
x 6 1/2	16.575	331.5
x 7	17.800	357.0
x 8	20.400	408.0
x 9	22.970	459.4
x 10	25.530	510.6
x 11	28.080	561.6
x 12	30.630	612.6
1 x 1 1/4	4.250	85.0
x 1 1/2	5.100	102.0
x 2	6.800	136.0
x 2 1/2	8.500	170.0
x 3	10.200	204.0
x 3 1/2	11.900	238.0
x 4	13.600	272.0
x 4 1/2	15.300	306.0
x 5	17.000	340.0
x 5 1/2	18.700	374.0
x 6	20.400	408.0
x 7	23.800	476.0
x 8	27.200	544.0
x 10	34.030	680.6
x 12	40.840	816.8
11/4 x 1 1/2	6.375	127.5
x 2 1/4	9.563	191.3
x 2 1/2	10.625	212.5
11/4 x 3	12.750	255.0
x 3 1/2	14.875	297.5
x 4	17.000	340.0
x 4 1/2	19.125	382.5
x 5	21.250	425.0
x 5 1/2	23.375	467.5
x 6	25.500	510.0
x 7	29.750	595.0
x 8	34.000	680.0
11/2 x 2	10.200	204.0
x 2 1/2	12.750	255.0
x 3	15.300	306.0
x 3 1/2	17.850	357.0
x 4	20.40	408.0

HR BARS & REINFORCING

Hot Rolled Flat Bars (con't)

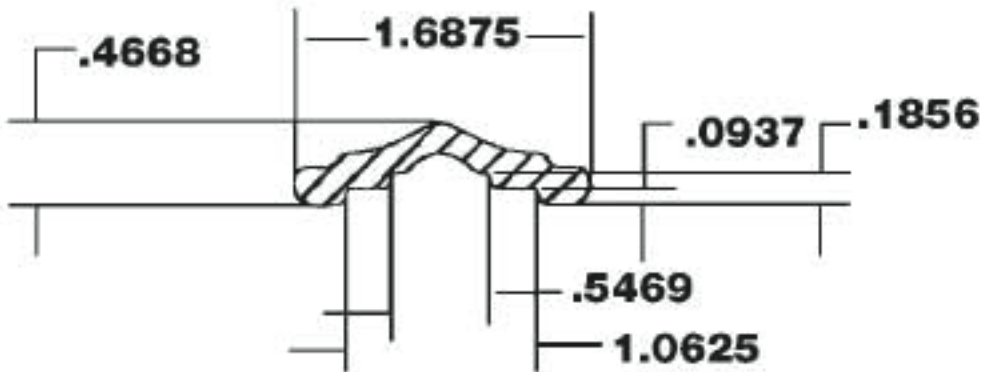
Size in Inches	Lbs. Per Ft.	Lbs. Per 20'
x 4 1/2	22.95	459.0
x 5	25.50	510.0
x 5 1/2	28.05	561.0
x 6	30.60	612.0
x 7	35.70	714.0
x 8	40.80	816.0
1 3/4 x 2	11.90	238.0
x 2 1/2	14.88	297.6
x 3	17.85	357.0
x 3 1/2	20.83	416.6
x 4	23.80	476.0
x 4 1/2	26.78	535.6
x 5	29.75	595.0
x 5 1/2	32.73	654.6
x 6	35.70	714.0
2 x 2 1/2	17.00	340.0
x 3	20.40	408.0
x 3 1/2	23.80	476.0
x 4	27.20	544.0
x 4 1/2	30.60	612.0
x 5	34.00	680.0
x 6	40.80	816.0
2 1/2 x 3	25.55	511.0
x 3 1/2	29.75	595.0
x 4	34.00	680.0
x 4 1/2	38.25	765.0
x 5	42.50	850.0
x 6	51.00	1020.0
3 x 4	40.80	817.6
x 5	51.00	1020.0
x 6	61.20	1224.0

HR BARS & REINFORCING

Top Rail Moulding (Cover Rail)

Stock Lengths 20 Ft.

Size	Lbs. Per Ft.	Lbs. Per 20'
1633L	1.25	24.92



(Designed to Fit Over 1" Bar Channel)

Hot Rolled Rounds

ASTM A36
Stock Lengths 20 Ft.



Size in Inches	Lbs. Per Ft.	Lbs. Per 20'
1/4*	.1669	3.338
5/16*	.2608	5.216
3/8*	.3755	7.510
1/2	.6676	13.35
5/8	1.043	20.86
3/4	1.502	30.04
7/8	2.045	40.90
1	2.670	53.40
1 1/8	3.380	67.60
1 1/4	4.173	83.46
1 3/8	5.049	101.0
1 1/2	6.008	120.2
1 3/4	8.178	163.6
1 7/8	9.388	187.8
2	10.60	213.6
2 1/2	16.60	333.8
3	24.03	480.6
4	42.73	854.6

*Stocked as C.Q. only

HR BARS & REINFORCING



Threaded Steel Rounds

Low Carbon, Starting Material A36
Roll Threaded-Class 1A Fit
Stock Lengths 6 Ft. and 12 Ft.

Size in Inches	Threads Per Inch	Lbs. Per Ft.	Lbs. Per 6'
1/4	20	.118	.708
5/16	18	.197	1.182
3/8	16	.284	1.704
1/2	13	.515	3.090
5/8	11	.825	4.950
3/4	10	1.215	7.290
7/8	9	1.675	10.050
1	8	2.190	13.140
1 1/8	7	2.750	16.500
1 1/4	7	3.500	21.000



Hot Rolled Squares

ASTM A36
Stock Lengths 20 Ft.

Size in Inches	Lbs. Per Ft.	Lbs. Per 20'
3/8	.4781	9.562
1/2	.8500	17.00
5/8	1.328	26.56
3/4	1.913	38.26
1	3.400	68.00
1 1/4	5.313	106.3
1 1/2	7.650	153.0
2	13.60	272.0
2 1/2	21.25	425.0
3	30.60	612.0
3 1/2	41.65	833.0
4	54.40	1088.0

HR BARS & REINFORCING

Reinforcing Bars (Deformed)

ASTM A615 Grade 40 and Grade 60



Inch Pound Bar Size	Diameter (in.)	Lbs. Per Ft.	Lbs. Per 20'
#3	0.375 (3/8)	.376	7.52
#4	0.500 (1/2)	.668	13.36
#5	0.625 (5/8)	1.043	20.86
#6	0.750 (3/4)	1.502	30.04
#7	0.875 (7/8)	2.044	40.88
#8	1.000 (1)	2.670	53.4
#9	1.128	3.400	68.0
#10	1.270	4.303	86.06
#11	1.410	5.313	106.26
#14	1.693	7.65	153.0
#18	2.257	13.60	272.0

Steel reinforcing bars help maintain integrity of concrete and stops cracking. Small lugs protrude from surface of rebar which inhibit longitudinal movement in surrounding concrete. Deformed billet steel rebars substantially stabilize concrete pouring of any size.

Mechanical Properties	Tensile Strength (PSI)	Yield Strength (PSI)
Grade 40	70,000 Min.	40,000 Min.
Grade 60	90,000 Min.	60,000 Min.

COLD FINISHED BARS

Cold Finished Rounds

AISI C-1018, C-1144, C-1117, C-1045,
C-12L14, ASTM A108
Stock Lengths 12 / 20 Ft.



Size in Inches	A-311 Stress Proof G&P	1045 TG&P	Lbs. Per Ft.	Lbs. Per 20'
1/8			.0417	.83
3/16			.0939	1.88
1/4			.1669	3.34
5/16	X		.2608	5.22
3/8	X		.3755	7.51
7/16	X		.5111	10.22
1/2	X	X	.6676	13.35
9/16	X	X	.8449	16.90
5/8	X	X	1.043	20.86
11/16	X	X	1.262	25.24
3/4	X	X	1.502	30.04
13/16	X	X	1.763	35.26
7/8	X	X	2.045	40.90
15/16	X	X	2.347	46.94
1	X	X	2.670	53.40
1 1/16	X	X	3.015	60.30
1 1/8	X	X	3.380	67.60
1 3/16	X	X	3.766	75.32
1 1/4	X	X	4.173	83.46
1 5/16	X	X	4.600	92.00
1 3/8	X	X	5.049	100.98
1 7/16	X	X	5.518	110.36
1 1/2	X	X	6.008	120.16
1 9/16		X	6.520	130.40
1 5/8	X	X	7.052	141.04
1 11/16	X	X	7.604	152.08
1 3/4	X	X	8.178	163.56
1 15/16	X	X	10.02	200.40
2	X	X	10.68	213.60
2 1/8	X	X	12.06	241.20
2 1/4	X	X	13.52	270.40
2 3/8	X	X	15.06	301.20
2 7/16	X	X	15.87	317.40
2 1/2	X	X	16.69	333.80
2 5/8	X	X	18.40	368.00
2 3/4	X	X	20.19	403.80
2 15/16	X	X	23.04	460.80
3	X	X	24.03	480.60
3 1/4	X	X	28.21	564.20
3 7/16		X	31.55	631.00
3 1/2	X	X	32.71	654.20
3 15/16		X	41.40	828.00
4	X	X	42.73	854.60
4 15/16		X	65.10	1,302.00
5		X	66.76	1,335.20
6		X	96.13	1,922.60

Harbor Steel

COLD FINISHED BARS



Cold Finished Flats

AISI C-1018, ASTM A108

Stock Lengths 12 Ft.

Size in Inches		Lbs. Per Ft.	Lbs. Per 12'
1/8	x 3/8	.1594	1.913
	x 1/2	.2125	2.550
	x 5/8	.2656	3.187
	x 3/4	.3188	3.826
	x 1	.4250	5.100
	x 1 1/2	.6375	7.650
	x 2	.8500	10.200
	x 3	1.2750	15.300
	x 4	1.7000	20.400
	x 5	2.1250	25.500
3/16	x 6	2.5500	30.600
	x 3/8	.2391	2.869
	x 1/2	.3188	3.826
	x 3/4	.4781	5.737
	x 1	.6375	7.650
	x 1 1/4	.7969	9.563
	x 1 3/8	.8766	10.519
	x 1 1/2	.9563	11.476
	x 2	1.2750	15.300
	x 2 1/2	1.5940	19.128
1/4	x 3	1.9130	22.956
	x 4	2.5500	30.600
	x 5	3.1875	38.250
	x 6	3.8250	45.900
	x 1/2	.4250	5.100
	x 3/4	.6375	7.650
	x 1	.8500	10.200
	x 1 1/4	1.063	12.756
	x 1 1/2	1.275	15.300
	x 2	1.700	20.400
5/16	x 2 1/2	2.125	25.500
	x 3	2.550	30.600
	x 4	3.400	40.800
	x 5	4.250	51.000
	x 6	5.100	61.200
	x 8	6.800	81.600
	x 1/2	.531	6.376
	x 3/4	.7969	9.563
	x 1	1.062	12.744
	x 2	2.124	25.488
3/8	x 3	3.186	38.232
	x 4	4.248	50.976
	x 1/2	.6375	7.650
	x 1	1.275	15.30
	x 1 1/4	1.594	19.13

COLD FINISHED BARS



Cold Finished Flats (con't)

AISI C-1018, ASTM A108

Stock Lengths 12 Ft.

Size in Inches	Lbs. Per Ft.	Lbs. Per 12'
x 1 1/2	1.913	22.96
x 2	2.550	30.60
x 3	3.825	45.90
x 4	5.100	61.20
x 5	6.375	76.50
x 6	7.650	91.80
x 7	8.925	107.10
x 8	10.200	122.40
x 9	11.480	137.80
x 10	12.750	153.00
1/2 x 5/8	1.063	12.76
x 3/4	1.275	15.30
x 1	1.700	20.40
x 1 1/4	2.125	25.50
x 1 1/2	2.550	30.60
x 2	3.400	40.80
x 2 1/2	4.250	51.00
x 3	5.100	61.20
x 4	6.800	81.60
x 5	8.500	102.00
x 6	10.200	122.40
x 8	13.600	163.20
x 9	15.300	183.60
x 10	17.000	204.00
x 11	18.700	224.40
x 12	20.400	244.80
5/8 x 3/4	1.594	19.13
x 1	2.125	25.50
x 2	4.250	51.00
x 3	6.375	76.50
x 4	8.500	102.00
x 5	10.630	127.60
x 6	12.750	153.00
3/4 x 1	2.550	30.60
x 1 1/4	3.188	38.26
x 1 1/2	3.825	45.90
x 2	5.100	61.20
x 2 1/2	6.375	76.50
x 3	7.650	91.80
x 4	10.200	122.40
x 5	12.750	153.00
x 6	15.300	183.60
x 7	17.850	214.20
x 8	20.400	244.80
x 9	22.950	275.40

COLD FINISHED BARS

Cold Finished Flats (con't)

Size in Inches		Lbs. Per Ft.	Lbs. Per 12'
1	x 10	25.50	306.0
	x 11	28.05	336.6
	x 12	30.60	369.2
	x 1 1/4	4.250	51.00
	x 1 1/2	5.100	61.20
	x 2	6.800	81.60
	x 2 1/2	8.500	102.00
	x 3	10.200	122.40
	x 4	13.600	163.20
	x 4 1/2	15.300	183.60
	x 5	17.000	204.00
	x 6	20.400	244.80
1 1/4	x 8	27.200	326.40
	x 9	30.600	367.20
	x 10	34.000	408.00
	x 11	37.400	448.80
	x 12	40.800	489.60
	x 2	8.500	102.00
	x 3	12.750	153.00
	x 4	17.000	204.00
	x 5	21.250	255.00
	x 6	25.500	306.00
	x 2	10.200	122.40
	x 3	15.300	183.60
1 1/2	x 4	20.400	244.80
	x 5	25.500	306.70
	x 6	30.600	367.20
	x 7	35.000	428.40
	x 8	40.800	489.60
	x 2 1/2	17.00	204.0
	x 3	20.40	244.8
	x 4	27.20	326.4
	x 6	40.80	489.6
	x 8	54.40	652.8
	x 3	25.500	306.00
	x 4	34.000	408.00
2	x 4	40.800	489.60
2 1/2	x 4	40.800	489.60

COLD FINISHED BARS



Cold Finished Hexagons

MBQ, Stock Lengths 12 Ft.

Size in Inches	Lbs. Per Ft.	Lbs. Per 12'
5/8	1.150	13.80
11/16	1.392	16.70
3/4	1.656	19.87
1	2.944	35.33
1 1/4	4.601	55.21
2	11.780	141.36



Cold Finished Squares

AISI C-1018, ASTM A108

Stock Lengths 12 Ft.

Size in Inches	Lbs. Per Ft.	Lbs. Per 12'
1/8	.0531	.637
3/16	.1195	1.434
1/4	.2125	2.550
5/16	.3320	3.984
3/8	.4781	5.737
7/16	.6508	7.810
1/2	.8500	10.20
9/16	1.076	12.91
5/8	1.328	15.94
11/16	1.607	19.28
3/4	1.913	22.96
7/8	2.603	31.24
1	3.400	40.80
1 1/8	4.303	51.64
1 1/4	5.313	63.76
1 1/2	7.650	91.80
1 3/4	10.41	124.9
2	13.60	163.2
3	30.60	367.2
3 1/2	41.65	499.8
4	54.40	652.8
5	85.00	1020.0
6	122.40	1468.8

STEEL TUBING SQUARE WELDED



Produced to O.D. and Wall Dimensions

Low Carbon Mechanical

ASTM A 513 Flash In

Stock Lengths: 20', 24', 40' Random

Size & Ga.	Wall	I.D.	Lbs. per Ft.
3/8 x 3/8			
16	.065	.245	.2740
1/2 x 1/2			
18	.049	.402	.3005
16	.065	.370	.3845
5/8 x 5/8			
18	.049	.527	.3838
16	.065	.495	.4950
3/4 x 3/4			
18	.049	.652	.4671
16	.065	.620	.6055
14	.083	.584	.7529
11	.120	.510	1.028
7/8 x 7/8			
18	.049	.777	.5504
16	.065	.745	.7160
1 x 1			
18	.049	.902	.6337
16	.065	.870	.8265
15	.072	.854	.9100
14	.083	.834	1.035
12	.109	.782	1.321
11	.120	.760	1.436
1 1/8 x 1 1/8			
18	.049	1.027	.7170
1 1/4 x 1 1/4			
18	.049	1.152	.8003
16	.065	1.120	1.048
14	.083	1.084	1.317
13	.095	1.060	1.492
12	.109	1.032	1.691
11	.120	1.010	1.844
1 1/2 x 1 1/2			
18	.049	1.402	.9669
16	.065	1.370	1.269
14	.083	1.334	1.600
13	.095	1.310	1.815
12	.109	1.282	2.062
11	.120	1.260	2.252
1 3/4 x 1 3/4			
16	.065	1.620	1.490
14	.083	1.584	1.882
11	.120	1.510	2.660
2 x 2			
16	.065	1.870	1.711
14	.083	1.834	2.164
13	.095	1.810	2.461
12	.109	1.782	2.800
11	.120	1.760	3.068
2 1/4 x 2 1/4			
16	.065	2.120	1.932

STEEL TUBING SQUARE WELDED



Produced to O.D. and Wall Dimensions

Low Carbon Mechanical

ASTM A 513 Flash In

Stock Lengths: 20', 24', 40' Random

Size & Ga.	Wall	I.D.	Lbs. per Ft.
2 1/2 x 2 1/2			
16	.065	2.370	2.153
14	.083	2.334	2.728
12	.109	2.282	3.544
3 x 3			
14	.083	2.834	3.293

STEEL TUBING SQUARE STRUCTURAL WELDED*



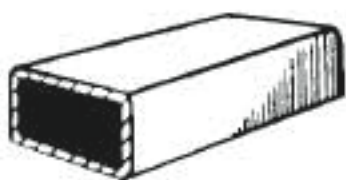
ASTM A 500 Grade B/C

Stock Lengths 20, 24, and 40 Ft. Random

Size in Inches	Wall	Lbs. per Ft.
1 1/4 x 1 1/4	x .188	2.40
1 1/2 x 1 1/2	x .188	3.23
	.250	4.00
1 3/4 x 1 3/4	x .188	3.68
2 x 2	x .125	3.05
	.188	4.32
	.250	5.41
2 1/2 x 2 1/2	x .125	3.90
	.188	5.59
	.250	7.11
3 x 3	x .125	4.75
	.188	6.87
	.250	8.81
	.313	10.58
	.375	12.50
3 1/2 x 3 1/2	x .125	5.61
	.188	8.15
	.250	10.51
	.313	12.70
4 x 4	x .125	6.46
	.188	9.42
	.250	12.21
	.313	14.83
	.375	17.27
	.500	21.63
4 1/2 x 4 1/2	x .188	10.70
5 x 5	x .188	11.97
	.250	15.62
	.313	19.08
	.375	22.37
	.500	28.43
6 x 6	x .188	14.53
	.250	19.02
	.313	23.34
	.375	27.48
	.500	35.24

Harbor Steel

TUBE & PIPE



Rectangular Tubing

ASTM A500 Grade B & A513
Possible Stock Lengths 20 Ft., 24 Ft.
40 Ft. and 48 Ft.

* Stocked in ASTM A-513

Size in Inches		Gauge	Wall Thickness	Lbs. Per Ft.
2	x 1*	16	.065	0.606
		14	.083	1.600
		11	.120	2.252
2	x 1 1/2*	3/16	.188	3.040
		14	.083	1.882
		11	.120	2.660
2 1/2	x 1 1/2*	14	.083	2.164
		11	.120	3.068
		3/16	.188	4.320
3	x 1	14	.083	2.146
3	x 1	11	.120	3.068
		3/16	.188	4.327
3	x 1 1/2	14	.083	2.446
		11	.120	3.476
		3/16	.188	5.97
3	x 2	11	.120	3.90
		3/16	.188	5.59
		1/4	.250	7.11
4	x 2	11	.120	4.75
		3/16	.188	6.87
		1/4	.250	8.81
4	x 3	3/8	.375	12.165
		11	.120	5.61
		3/16	.188	8.15
		1/4	.250	10.51
		3/8	.375	14.717
5	x 2	3/16	.188	8.15
		1/4	.250	10.51
		3/8	.375	14.717
5	x 3	3/16	.188	9.42
		1/4	.250	12.21
		3/8	.375	17.27
6	x 2	3/16	.188	9.42
		1/4	.250	12.21
		3/8	.375	17.269
6	x 3	3/16	.188	10.70
		1/4	.250	13.91
		3/8	.375	19.82
		1/2	.500	25.029
6	x 4	1/4	.250	15.62
		5/16	.313	19.08
		3/8	.375	22.37
7	x 4	1/2	.500	28.43
		3/16	.188	14.53

Harbor Steel

TUBE & PIPE

Rectangular Tubing (con't)

Size in Inches		Gauge	Wall Thickness	Lbs. Per Ft.
7	x 5	1/4	.250	19.02
		3/16	.188	14.53
		5/16	.313	23.34
8	x 2	3/8	.375	27.48
		1/2	.500	35.24
		3/16	.188	11.97
8	x 3	1/4	.250	15.62
		3/16	.188	13.25
		1/4	.250	17.32
8	x 4	3/8	.375	24.93
		3/16	.188	14.53
		1/4	.250	19.02
8	x 6	5/16	.313	23.34
		3/8	.375	27.48
		1/2	.500	35.24
10	x 2	3/16	.188	17.08
		1/4	.250	22.42
		5/16	.313	27.59
10	x 4	3/8	.375	32.58
		1/2	.500	42.05
		3/16	.188	14.53
10	x 6	1/4	.250	19.02
		3/16	.188	17.08
		1/4	.250	22.42
10	x 8	5/16	.313	27.59
		3/8	.375	32.58
		1/2	.500	42.05
12	x 4	1/4	.250	25.82
		5/16	.313	31.84
		3/8	.375	37.69
12	x 6	1/2	.500	48.85
		1/4	.250	29.23
		3/8	.375	42.79
12	x 8	1/2	.500	55.66
		3/16	.188	19.63
		1/4	.250	25.82
12	x 10	5/16	.313	31.84
		3/8	.375	37.69
		1/2	.500	48.85
12	x 12	1/4	.250	29.23
		5/16	.313	36.10
		3/8	.375	42.79
12	x 14	1/2	.500	55.66
		1/4	.250	32.63
		5/16	.313	40.35
12	x 16	3/8	.375	47.90
		1/2	.500	62.46
		5/8	.625	76.33

TUBE & PIPE

Rectangular Tubing (con't)

Size in Inches		Gauge	Wall Thickness	Lbs. Per Ft.
12	x 10	1/4	.250	36.03
		3/8	.375	49.86
		1/2	.500	63.68
14	x 4	1/4	.250	29.23
		3/8	.375	42.79
		1/2	.500	55.66
14	x 6	1/4	.250	32.63
		3/8	.375	47.90
		1/2	.500	62.46
16	x 4	1/4	.250	32.63
		3/8	.375	47.90
		1/2	.500	62.46
16	x 8	1/4	.250	39.43
		3/8	.375	58.10
		1/2	.500	76.09



STEEL TUBING
ROUND MECHANICAL
SEAMLESS DOM WELDED
ELECTRIC WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*
1/8 x						
24	.022	.081	.0242	X	..	..
5/32 x						
22	.028	.100	.0383	X	..	..
21	.032	.092	.0424	X	..	..
3/16 x						
24	.022	.144	.0390	X	..	..
22	.028	.132	.0478	X	..	..
20	.035	.118	.0572	X	..	..
18	.049	.090	.0727	X	..	..
17	.058	.072	.0805	X	..	..
16	.065	.058	.0854	X	..	..
7/32 x						
20	.035	.149	.0688	X	..	..
1/4 x						
24	.022	.206	.0536	..	X	..
23	.025	.200	.0601	..	X	..
22	.028	.194	.0664	..	X	..
20	.035	.180	.0804	..	X	..
19	.042	.166	.0933	..	X	..
18	.049	.152	.1052	..	X	..
16	.065	.120	.1284	..	X	..
14	.083	.084	.1480	X	..	..
13	.095	.060	.1573	X	..	..
9/32 x						
18	.049	.183	.1214	..	X	..
5/16 x						
24	.022	.269	.0684	..	X	..
22	.028	.257	.0852	..	X	..
20	.035	.243	.1039	..	X	..
18	.049	.215	.1382	..	X	..
17	.058	.197	.1580	..	X	..
16	.065	.183	.1722	..	X	..
14	.083	.147	.2039	..	X	..
11/32 x						
21	.032	.280	.1066	..	X	..
3/8 x						
24	.022	.331	.0829	..	X	..
22	.028	.319	.1038	..	X	X
20	.035	.305	.1271	..	X	X
18	.049	.277	.1706	..	X	X

* Produced to O.D. and Wall dimensions

STEEL TUBING
ROUND MECHANICAL
SEAMLESS DOM WELDED
ELECTRIC WELDED



O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*
3/8 x						
17	.058	.259	.1964	..	X	..
16	.065	.245	.2152	..	X	X
14	.083	.209	.2588	..	X	..
13	.095	.185	.2841	X	..	..
12	.109	.157	.3097	..	X	..
10	.134	.107	.3449	X	..	..
13/32 x						
16	.065	.276	.2367	..	X	..
14	.083	.240	.2863	..	X	..
13	.095	.216	.3155	..	X	..
7/16 x						
22	.028	.382	.1226	..	X	..
20	.035	.368	.1506	..	X	..
18	.049	.340	.2036	..	X	X
17	.058	.322	.2354	..	X	..
16	.065	.308	.2589	..	X	X
14	.083	.272	.3147	..	X	..
13	.095	.248	.3480	..	X	..
1 1/8	.125	.188	.4179	..	X	..
1/2 x						
24	.022	.456	.1123	..	X	..
22	.028	.444	.1411	..	X	..
21	.032	.436	.1599	..	X	..
20	.035	.430	.1738	..	X	X
19	.042	.416	.2054	..	X	..
18	.049	.402	.2360	..	X	X
17	.058	.384	.2738	..	X	..
16	.065	.370	.3020	..	X	X
15	.072	.356	.3291	..	X	..
14	.083	.334	.3696	..	X	..
13	.095	.310	.4109	..	X	..
12	.109	.282	.4552	..	X	..
11	.120	.260	.4870	..	X	..
1 1/8	.125	.250	.5006	..	X	..
10	.134	.232	.5238	..	X	..
5/32	.156	.188	.5731	..	X	..
17/32 x						
16	.065	.401	.3235	..	X	..
14	.083	.365	.3971	..	X	..
1 1/8	.125	.281	.5420	..	X	..

*Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*
9/16 x						
22	.028	.507	.1600	..	X	..
20	.035	.493	.1974	..	X	..
18	.049	.465	.2690	..	X	X
16	.065	.433	.3457	..	X	X
14	.083	.397	.4255	..	X	..
13	.095	.373	.4748	..	X	..
12	.109	.345	.5285	..	X	..
1 1/8	.125	.313	.5847	..	X	..
5/8 x						
22	.028	.569	.1785	..	X	X
20	.035	.555	.2205	..	X	X
18	.049	.527	.3014	..	X	X
17	.058	.509	.3512	..	X	..
16	.065	.495	.3888	..	X	X
15	.072	.481	.4252	..	X	..
14	.083	.459	.4805	..	X	X
13	.095	.435	.5377	..	X	..
12	.109	.407	.6007	..	X	..
11	.120	.385	.6472	..	X	..
1 1/8	.125	.375	.6675	..	X	..
10	.134	.357	.7027	..	X	..
5/32	.156	.313	.7814	..	X	..
3/16	.188	.249	.8774	..	X*	..
7/32	.219	.187	.9496	..	X*	..
21/32 x						
13	.095	.466	.5692	..	X	..
11/16 x						
22	.028	.632	.1974	..	X	..
21	.032	.624	.2242	..	X	..
18	.049	.590	.3344	..	X	..
16	.065	.558	.4325	..	X	X
14	.083	.522	.5363	..	X	..
13	.095	.498	.6017	..	X	..
12	.109	.470	.6740	..	X	..
11	.120	.448	.7279	..	X	..
1 1/8	.125	.438	.7516	..	X	..
10	.134	.420	.7928	..	X	..
5/32	.156	.376	.8864	..	X	..
7/32	.219	.250	1.097	..	X*	..
3/4 x						
22	.028	.694	.2159	..	X	..
20	.035	.680	.2673	..	X	X
18	.049	.652	.3668	..	X	X

*Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
3/4 x							
17	.058	.634	.4287	..	X	..	..
16	.065	.620	.4755	..	X	X**	..
14	.083	.584	.5913	..	X	X	..
13	.095	.560	.6646	..	X	..	..
12	.109	.532	.7462	..	X	X	..
11	.120	.510	.8074	..	X	X	..
1 1/8	.125	.500	.8344	..	X	..	..
10	.134	.482	.8816	..	X	..	X
3/32	.156	.438	.9897	..	X	..	..
1 1/16	.172	.406	1.062	..	X	..	..
3/16	.188	.374	1.128	..	X	..	..
7/32	.219	.312	1.242	..	X*	..	..
1/4	.250	.250	1.335	..	X*	..	..
13/16 x							
22	.028	.757	.2347	..	X	..	..
20	.035	.743	.2908	..	X	..	..
18	.049	.715	.3998	..	X	..	..
16	.065	.683	.5193	..	X	X	..
14	.083	.647	.6471	..	X	..	..
13	.095	.623	.7285	..	X	..	..
12	.109	.595	.8195	..	X	..	..
11	.120	.573	.8881	..	X	..	..
1 1/8	.125	.563	.9185	..	X	..	..
10	.134	.545	.9717	..	X	..	..
3/32	.156	.501	1.095	..	X	..	..
3/16	.188	.437	1.255	..	X	..	..
7/32	.219	.375	1.389	..	X	..	..
1/4	.250	.313	1.503	..	X*	..	..
27/32 x							
12	.109	.626	.8556	..	X	..	..
3/32	.156	.532	1.146	..	X	..	..
7/8 x							
21	.032	.811	.2881	..	X	..	..
20	.035	.805	.3140	..	X	X	..
18	.049	.777	.4323	..	X	X	..
17	.058	.759	.5061	..	X	..	..
16	.065	.745	.5623	..	X	X	..
15	.072	.731	.6175	..	X	..	..
14	.083	.709	.7021	..	X	X	..
13	.095	.685	.7914	..	X	X	..
12	.109	.657	.8917	..	X	..	..
11	.120	.635	.9676	..	X	X	..
1 1/8	.125	.625	1.001	..	X	..	..
10	.134	.607	1.061	..	X	..	..
3/32	.156	.563	1.198	..	X	..	X
3/16	.188	.499	1.379	..	X	..	..
7/32	.219	.437	1.534	..	X	..	..
1/4	.250	.375	1.669	..	X*	..	..
9/32	.281	.313	1.783	..	X*	..	..

*Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
15/16 x							
20	.035	.868	.3375	..	X	..	..
18	.049	.840	.4652	..	X	..	..
16	.065	.808	.6060	..	X	..	..
14	.083	.772	.7579	..	X	..	..
13	.095	.748	.8553	..	X	..	..
1 1/8	.125	.688	1.085	..	X	..	..
10	.134	.670	1.151	..	X	..	..
5/32	.156	.626	1.303	..	X	..	..
3/16	.188	.562	1.506	..	X	..	..
1/4	.250	.438	1.837	..	X	..	..
1 x							
22	.028	.944	.2907	..	X	..	..
20	.035	.930	.3607	..	X	X	..
18	.049	.902	.4977	..	X	X	..
17	.058	.884	.5835	..	X	..	..
16	.065	.870	.6491	..	X	X	..
15	.072	.856	.7136	..	X	..	..
14	.083	.834	.8129	..	X	X	..
13	.095	.810	.9182	..	X	X	..
12	.109	.782	1.037	..	X	X	..
11	.120	.760	1.128	..	X	X	..
1 1/8	.125	.750	1.168	..	X	..	..
10	.134	.732	1.239	..	X	..	..
5/32	.156	.688	1.406	..	X	..	..
11/64	.172	.656	1.521	..	X	..	..
7	.180	.640	1.576	..	X	..	..
3/16	.188	.624	1.630	..	X	..	..
7/32	.219	.562	1.827	..	X	..	..
1/4	.250	.500	2.003	..	X	..	..
9/32	.281	.438	2.158	..	X	..	..
3/8	.375	.250	2.503	..	X	..	..
1 1/16 x							
20	.035	.993	.3843	..	X	..	..
18	.049	.965	.5306	..	X	..	..
16	.065	.933	.6928	..	X	X	..
14	.083	.897	.8687	..	X	..	..
13	.095	.873	.9821	..	X	..	..
12	.109	.845	1.111	..	X	..	..
11	.120	.823	1.209	..	X	..	..
1 1/8	.125	.813	1.252	..	X	..	..
10	.134	.795	1.330	..	X	..	..
5/32	.156	.751	1.511	..	X	..	..
3/16	.188	.687	1.757	..	X	..	..
7/32	.219	.625	1.974	..	X	..	..
1/4	.250	.563	2.171	..	X	..	..
5/16	.313	.437	2.507	X*	..	..	..

* Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
1 1/8 x							
20	.035	1.055	.4074	..	X	X	..
18	.049	1.027	.5631	..	X	X	..
17	.058	1.009	.6609	..	X	..	..
16	.065	.995	.7359	..	X	X	..
14	.083	.959	.9237	..	X	X	..
13	.095	.935	1.045	..	X	..	..
12	.109	.907	1.183	..	X	..	..
11	.120	.885	1.288	..	X	X	..
1 1/8	.125	.875	1.335	..	X	..	..
10	.134	.857	1.418	..	X	..	X
5/32	.156	.813	1.614	..	X	..	..
1 1/16	.172	.781	1.751	..	X	..	..
3/16	.188	.749	1.881	..	X	..	X
7/32	.219	.687	2.119	..	X	..	..
1/4	.250	.625	2.336	..	X	..	X
9/32	.281	.563	2.533	..	X	..	..
5/16	.313	.499	2.714	..	X	..	..
3/8	.375	.375	3.004	X*	X	..	..
1 3/16 x							
21	.032	1.124	.3951	..	X	..	..
20	.035	1.118	.4310	..	X	..	..
18	.049	1.090	.5961	..	X	..	..
16	.065	1.058	.7796	..	X	X	..
14	.083	1.022	.9795	..	X	..	..
13	.095	.998	1.109	..	X	..	..
1 1/8	.125	.938	1.419	..	X	..	..
5/32	.156	.876	1.719	..	X	..	..
3/16	.188	.812	2.008	..	X	..	..
7/32	.219	.750	2.266	..	X	..	..
1/4	.250	.688	2.505	..	X	..	..
5/16	.313	.562	2.925	..	X	..	..
1 1/4 x							
22	.028	1.194	.3654	..	X	..	..
20	.035	1.180	.4542	..	X	X	..
18	.049	1.152	.6285	..	X	X	..
16	.065	1.120	.8226	..	X	X	..
14	.083	1.084	1.035	..	X	X	..
13	.095	1.060	1.172	..	X	X	..
12	.109	1.032	1.328	..	X	X	..
11	.120	1.010	1.448	..	X	X	..
1 1/8	.125	1.000	1.502	..	X	..	..
10	.134	.982	1.597	..	X	..	..
5/32	.156	.938	1.823	..	X	..	X
3/16	.188	.874	2.132	..	X	..	..
7/32	.219	.812	2.411	..	X	..	..
1/4	.250	.750	2.670	..	X	..	..
9/32	.281	.688	2.908	..	X	..	..
5/16	.313	.624	3.132	..	X	..	..
11/32	.344	.562	3.329	..	X	..	..
3/8	.375	.500	3.504	..	X	..	..
7/16	.438	.374	3.798	X*	..	..	..

* Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
1⁵/₁₆ x							
20	.035	1.243	.4777	..	X	..	..
17	.058	1.197	.7774	..	X	..	..
16	.065	1.183	.8664	..	X	..	..
14	.083	1.147	1.090	..	X	..	..
13	.095	1.123	1.236	..	X	..	..
12	.109	1.095	1.402	..	X	..	..
11	.120	1.073	1.529	..	X	..	..
1¹/₈	.125	1.063	1.586	..	X	..	..
10	.134	1.045	1.687	..	X	..	..
9	.148	1.017	1.841	..	X	..	..
5/32	.156	1.001	1.928	..	X	..	X
3/10	.188	.937	2.259	..	X	..	..
7/32	.219	.875	2.559	..	X	..	..
1/4	.250	.813	2.838	..	X	..	..
9/32	.281	.751	3.097	..	X	..	..
5/10	.313	.687	3.343	..	X	..	..
3/8	.375	.563	3.757	..	X*	..	..
1³/₈ x							
22	.028	1.319	.4028	..	X	..	..
20	.035	1.305	.5009	..	..	X	..
18	.049	1.277	.6939	..	X	X	..
17	.058	1.259	.8158	..	X	..	..
16	.065	1.245	.9094	..	X	X	..
14	.083	1.209	1.145	..	X	X	..
13	.095	1.185	1.299	..	X	..	..
12	.109	1.157	1.474	..	X	..	..
11	.120	1.135	1.608	..	X	X	..
1¹/₈	.125	1.125	1.669	..	X	..	..
10	.134	1.107	1.776	..	X	..	..
5/32	.156	1.063	2.031	..	X	..	..
1¹/₁₆	.172	1.031	2.210	..	X	..	..
3/10	.188	.999	2.383	..	X	..	..
7/32	.219	.937	2.704	..	X	..	..
1/4	.250	.875	3.004	..	X	..	..
9/32	.281	.813	3.283	..	X	..	..
5/10	.313	.749	3.550	..	X	..	..
3/8	.375	.625	4.005	..	X	..	..
1⁷/₁₆ x							
16	.065	1.308	.9531	..	X	..	..
14	.083	1.272	1.201	..	X	..	..
13	.095	1.248	1.363	..	X	..	..
11	.120	1.198	1.689	..	X	..	..
1¹/₈	.125	1.188	1.753	..	X	..	..
5/32	.156	1.126	2.136	..	X	..	..
3/10	.188	1.062	2.510	..	X	..	..
7/32	.219	1.000	2.851	..	X	..	..
1/4	.250	.938	3.172	..	X	..	..

*Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
1½ x							
20	.035	1.430	.5476	..	X	X	..
18	.049	1.402	.7593	..	X	X	..
17	.058	1.384	.8932	..	X	..	..
16	.065	1.370	.9962	..	X	X	..
14	.083	1.334	1.256	..	X	X	..
13	.095	1.310	1.426	..	X	X	..
12	.109	1.282	1.619	..	X	X	..
11	.120	1.260	1.769	..	X	X	..
1⅛	.125	1.250	1.836	..	X	..	..
10	.134	1.232	1.955	..	X	X	..
5/32	.156	1.188	2.239	..	X	..	..
3/10	.188	1.124	2.634	..	X	..	..
7/32	.219	1.062	2.996	..	X	..	..
1/4	.250	1.000	3.338	..	X	..	..
9/32	.281	.938	3.658	..	X	..	..
5/10	.313	.874	3.968	..	X	..	..
11/32	.344	.812	4.247	..	X	..	..
3/8	.375	.750	4.506	..	X	..	..
7/10	.438	.624	4.968	X*	X	..	..
1/2	.500	.500	5.340	X*	..	..	..
1⅞ x							
20	.035	1.493	.5712	..	X	..	..
16	.065	1.433	1.040	..	X	..	..
13	.095	1.373	1.489	..	X	..	..
12	.109	1.345	1.693	..	X	..	..
1⅛	.125	1.313	1.920	..	X	..	..
10	.134	1.295	2.045	..	X	..	..
5/32	.156	1.251	2.344	..	X	..	..
3/10	.188	1.187	2.761	..	X	..	..
1/4	.250	1.063	3.506	..	X	..	..
5/10	.313	.937	4.179	..	X	..	..
3/8	.375	.813	4.758	..	X	..	..
1⅝ x							
20	.035	1.555	.5943	..	..	X	..
18	.049	1.527	.8248	..	X	X	..
17	.058	1.509	.9707	..	X	..	..
16	.065	1.495	1.083	..	X	X	..
14	.083	1.459	1.367	..	X	X	..
13	.095	1.435	1.552	..	X	..	..
12	.109	1.407	1.765	..	X	..	..
11	.120	1.385	1.929	..	X	X	..
1⅛	.125	1.375	2.003	..	X	..	..
10	.134	1.357	2.134	..	X	..	X
5/32	.156	1.313	2.448	..	X	..	..
11/64	.172	1.281	2.669	..	X	..	..
3/10	.188	1.249	2.885	..	X	..	..
7/32	.219	1.187	3.289	..	X	..	X
1/4	.250	1.125	3.671	..	X	..	..
9/32	.281	1.063	4.034	..	X	..	..
5/10	.313	.999	4.386	..	X	..	..
3/8	.375	.875	5.006	..	X	..	..
7/10	.438	.749	5.553	X*	..	..	..
1/2	.500	.625	6.008	X*	..	..	..

* Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
1¹¹/₁₆ x							
16	.065	1.558	1.127	..	X	..	..
1¹/₈	.125	1.438	2.087	..	X	..	..
5⁵/₃₂	.156	1.376	2.552	..	X	..	..
3³/₁₆	.188	1.312	3.012	..	X	..	..
1¹/₄	.250	1.188	3.840	..	X	..	..
1³/₄ x							
20	.035	1.680	.6411	..	X	..	..
18	.049	1.652	.8902	..	X	X	..
16	.065	1.620	1.170	..	X	X	..
14	.083	1.584	1.478	..	X	X	..
13	.095	1.560	1.679	..	X	X	..
12	.109	1.532	1.910	..	X	..	..
11	.120	1.510	2.089	..	..	X	..
1¹/₈	.125	1.500	2.169	..	X	..	..
10	.134	1.482	2.313	..	X	..	..
5⁵/₃₂	.156	1.438	2.656	..	X	..	..
3³/₁₆	.188	1.374	3.136	..	X	..	..
7⁷/₃₂	.219	1.312	3.581	..	X	..	..
1¹/₄	.250	1.250	4.005	..	X	..	..
9⁹/₃₂	.281	1.188	4.409	..	X	..	..
5⁵/₁₆	.313	1.124	4.804	..	X	..	..
3³/₈	.375	1.000	5.507	..	X	..	..
7⁷/₁₆	.438	.874	6.137	X	..	..	..
1¹/₂	.500	.750	6.675	X*	..	..	..
9⁹/₁₆	.563	.624	7.137	X*	..	..	..
5⁵/₈	.625	.500	7.509	X*	..	..	..
1¹³/₁₆ x							
1¹/₈	.125	1.563	2.254	..	X	..	..
5⁵/₃₂	.156	1.501	2.761	..	X	..	..
3³/₁₆	.188	1.437	3.263	..	X	..	..
1¹/₄	.250	1.313	4.173	..	X	..	..
1⁷/₈ x							
18	.049	1.777	.9556	..	X	..	..
16	.065	1.745	1.257	..	X	X	..
14	.083	1.709	1.589	..	X	..	..
13	.095	1.685	1.806	..	X	X	..
12	.109	1.657	2.056	..	X	..	..
11	.120	1.635	2.249	..	..	X	..
1¹/₈	.125	1.625	2.336	..	X	..	..
10	.134	1.607	2.492	..	X	..	..
5⁵/₃₂	.156	1.563	2.864	..	X	..	..
3³/₁₆	.188	1.499	3.387	..	X	..	..
7⁷/₃₂	.219	1.437	3.873	..	X	..	..
1¹/₄	.250	1.375	4.339	..	X	..	..
9⁹/₃₂	.281	1.313	4.784	..	X	..	..
5⁵/₁₆	.313	1.249	5.222	..	X	..	..
3³/₈	.375	1.125	6.008	..	X	..	..
7⁷/₁₆	.438	.999	6.722	X	..	..	..
1¹/₂	.500	.875	7.343	X*	..	..	..
9⁹/₁₆	.563	.749	7.889	X*	..	..	..

*Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
1¹⁵/₁₆ x							
¹ / ₈	.125	1.688	2.420	..	X	..	..
⁵ / ₃₂	.156	1.626	2.969	..	X	..	..
⁷ / ₃₂	.219	1.500	4.021	..	X	..	..
¹ / ₄	.250	1.438	4.507	..	X	..	..
³ / ₈	.375	1.188	6.260	..	X	..	..
2 x							
20	.035	1.930	.7345	..	..	X	..
18	.049	1.902	1.021	..	X	X	..
16	.065	1.870	1.343	..	X	X	..
14	.083	1.834	1.699	..	X	X	..
13	.095	1.810	1.933	..	X	X	..
12	.109	1.782	2.201	..	X	X	..
11	.120	1.760	2.409	..	X	X	..
¹ / ₈	.125	1.750	2.503	..	X	..	..
10	.134	1.732	2.671	..	X	X	..
⁵ / ₃₂	.156	1.688	3.072	..	X	..	..
7	.180	1.640	3.499	..	..	X	..
³ / ₁₆	.188	1.624	3.638	..	X	..	..
⁷ / ₃₂	.219	1.562	4.166	..	X	..	..
¹ / ₄	.250	1.500	4.673	..	X	..	..
⁹ / ₃₂	.281	1.438	5.159	..	X	..	..
⁵ / ₁₆	.313	1.374	5.639	..	X	..	..
¹¹ / ₃₂	.344	1.312	6.084	..	X	..	X
³ / ₈	.375	1.250	6.508	..	X	..	..
⁷ / ₁₆	.438	1.124	7.307	..	X	..	..
¹ / ₂	.500	1.000	8.010	X	..	..	..
⁹ / ₁₆	.563	.874	8.641	X*	..	..	..
⁵ / ₈	.625	.750	9.178	X*	X	..	..
³ / ₄	.750	.500	10.01	X*	..	..	..
2¹/₁₆ x							
⁵ / ₃₂	.156	1.751	3.177	..	X	..	..
³ / ₁₆	.188	1.687	3.765	..	X	..	..
¹ / ₄	.250	1.563	4.841	..	X	..	..
⁵ / ₁₆	.313	1.437	5.850	..	X	..	..
2¹/₈ x							
18	.049	2.027	1.086	..	..	X	..
16	.065	1.995	1.430	..	X	X	..
14	.083	1.959	1.810	..	X	..	..
13	.095	1.935	2.060	..	X	..	..
11	.120	1.885	2.570	..	X	..	..
¹ / ₈	.125	1.875	2.670	..	X	..	..
⁵ / ₃₂	.156	1.813	3.281	..	X	..	..
³ / ₁₆	.188	1.749	3.889	..	X	..	..
⁷ / ₃₂	.219	1.687	4.458	..	X	..	..
¹ / ₄	.250	1.625	5.006	..	X	..	..
⁹ / ₃₂	.281	1.563	5.534	..	X	..	..
⁵ / ₁₆	.313	1.499	6.057	..	X	..	..
³ / ₈	.375	1.375	7.009	..	X	..	..
⁷ / ₁₆	.438	1.249	7.892	..	X	..	..

*Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

SEAMLESS DOM WELDED
ELECTRIC WELDED C.D. BUTT WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*	C.D. Butt Welded
2³/₁₆ x							
1/8	.125	1.938	2.754	..	X	..	..
1/4	.250	1.688	5.175	..	X	..	..
2¹/₄ x							
20	.035	2.180	.828	..	..	X	..
18	.049	2.152	1.152	..	X	X	..
16	.065	2.120	1.517	..	X	X	..
14	.083	2.084	1.921	..	X	X	..
13	.095	2.060	2.187	..	X	..	..
12	.109	2.032	2.492	..	X	X	..
11	.120	2.010	2.730	..	..	X	..
1 1/8	.125	2.000	2.837	..	X	..	..
10	.134	1.982	3.028	..	X	..	..
5/32	.156	1.938	3.489	..	X	..	X
3/16	.188	1.874	4.140	..	X	..	..
7/32	.219	1.812	4.750	..	X	..	..
1/4	.250	1.750	5.340	..	X	..	..
9/32	.281	1.688	5.909	..	X	..	..
5/16	.313	1.624	6.475	..	X	..	..
11/32	.344	1.562	7.003	..	X	..	..
3/8	.375	1.500	7.509	..	X	..	..
13/32	.406	1.438	7.996	..	X	..	..
7/16	.438	1.374	8.476	..	X	..	..
1/2	.500	1.250	9.345	..	X	..	..
9/16	.563	1.124	10.14	X	..	..	..
5/8	.625	1.000	10.85	X*	..	..	..
3/4	.750	.750	12.02	X*	..	..	..
2⁵/₁₆ x							
3/16	.188	1.937	4.267	..	X	..	..
2³/₈ x							
18	.049	2.277	1.217	..	..	X	..
16	.065	2.245	1.604	..	X	X	..
14	.083	2.209	2.032	..	X	..	..
13	.095	2.185	2.313	..	X	..	..
1 1/8	.125	2.125	3.004	..	X	..	..
5/32	.156	2.063	3.697	..	X	..	..
3/16	.188	1.999	4.391	..	X	..	..
7/32	.219	1.937	5.043	..	X	..	..
1/4	.250	1.875	5.674	..	X	..	..
9/32	.281	1.813	6.284	..	X	..	..
5/16	.313	1.749	6.893	..	X	..	..
3/8	.375	1.625	8.010	..	X	..	..
7/16	.438	1.499	9.061	..	X	..	..
1/2	.500	1.375	10.01	..	X	..	..
9/16	.563	1.249	10.90	..	X	..	..
5/8	.625	1.125	11.68	X*	..	..	..

*Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*
2⁷/₁₆ x 1/4	.250	1.938	5.842	..	X	..
2¹/₂ x						
18	.049	2.402	1.283	..	..	X
16	.065	2.370	1.690	..	X	X
14	.083	2.334	2.143	..	X	X
13	.095	2.310	2.440	..	X	X
12	.109	2.282	2.783	..	X	..
11	.120	2.260	3.050	..	X	X
1 1/8	.125	2.250	3.171	..	X	..
5/32	.156	2.188	3.905	..	X	..
7	.180	2.140	4.460	..	..	X
3/16	.188	2.124	4.642	..	X	..
7/32	.219	2.062	5.335	..	X	..
1/4	.250	2.000	6.008	..	X	..
9/32	.281	1.938	6.659	..	X	..
5/16	.313	1.874	7.311	..	X	..
11/32	.344	1.812	7.921	..	X	..
3/8	.375	1.750	8.511	..	X	..
7/16	.438	1.624	9.646	..	X	..
1/2	.500	1.500	10.68	..	X	..
9/16	.563	1.374	11.65	..	X	..
5/8	.625	1.250	12.52	X	..	..
3/4	.750	1.000	14.02	X*	..	..
2⁹/₁₆ x 1/4	.250	2.063	6.176	..	X	..
2⁵/₈ x						
16	.065	2.495	1.777	..	X	X
13	.095	2.435	2.567	..	X	..
12	.109	2.407	2.929	..	X	..
1 1/8	.125	2.375	3.338	..	X	..
5/32	.156	2.313	4.114	..	X	..
7	.180	2.265	4.700	..	..	X
3/16	.188	2.249	4.893	..	X	..
7/32	.219	2.187	5.627	..	X	..
1/4	.250	2.125	6.341	..	X	..
9/32	.281	2.063	7.035	..	X	..
5/16	.313	1.999	7.729	..	X	..
3/8	.375	1.875	9.011	..	X	..
7/16	.438	1.749	10.23	..	X	..
1/2	.500	1.625	11.35	..	X	..
9/16	.563	1.499	12.40	..	X	..
5/8	.625	1.375	13.35	..	X	..
2³/₄ x						
18	.049	2.652	1.414	..	..	X
16	.065	2.620	1.864	..	X	X
14	.083	2.584	2.364	..	X	..
13	.095	2.560	2.694	..	X	..

*Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	DOM Welded	Electric Welded*
2³/₄ x						
11	.120	2.510	3.371	..	..	X
1¹/₈	.125	2.500	3.504	..	X	..
5⁵/₃₂	.156	2.438	4.322	..	X	..
3³/₁₆	.188	2.374	5.144	..	X	..
7⁷/₃₂	.219	2.312	5.920	..	X	..
1¹/₄	.250	2.250	6.675	..	X	..
5⁵/₁₆	.313	2.124	8.147	..	X	..
11¹¹/₃₂	.344	2.062	8.840	..	X	..
3³/₈	.375	2.000	9.512	..	X	..
7⁷/₁₆	.438	1.874	10.82	..	X	..
1¹/₂	.500	1.750	12.02	..	X	..
9⁹/₁₆	.563	1.624	13.15	..	X	..
5⁵/₈	.625	1.500	14.18	..	X	..
1¹/₁₆	.688	1.374	15.15	X	..	..
3³/₄	.750	1.250	16.02	X*	..	..
7⁷/₈	.875	1.000	17.52	X*	..	..
2⁷/₈ x						
16	.065	2.745	1.951	..	X	X
13	.095	2.685	2.821	..	X	..
11	.120	2.635	3.531	..	..	X
1¹/₈	.125	2.625	3.671	..	X	..
3³/₁₆	.188	2.499	5.395	..	X	..
7⁷/₃₂	.219	2.437	6.212	..	X	..
1¹/₄	.250	2.375	7.009	..	X	..
9⁹/₃₂	.281	2.313	7.785	..	X	..
5⁵/₁₆	.313	2.249	8.564	..	X	..
3³/₈	.375	2.125	10.01	..	X	..
7⁷/₁₆	.438	1.999	11.40	..	X	..
1¹/₂	.500	1.875	12.68	..	X	..
9⁹/₁₆	.563	1.749	13.90	..	X	..
5⁵/₈	.625	1.625	15.02	..	X	..
3³/₄	.750	1.375	17.02	X*	..	..
3 x						
18	.049	2.902	1.544	..	..	X
16	.065	2.870	2.038	..	X	X
14	.083	2.834	2.586	..	X	X
13	.095	2.810	2.947	..	X	X
12	.109	2.782	3.366	..	X	X
11	.120	2.760	3.691	..	..	X
1¹/₈	.125	2.750	3.838	..	X	..
10	.134	2.732	4.102	..	X	..
5⁵/₃₂	.156	2.688	4.738	..	X	..
7	.180	2.640	5.421	..	..	X
3³/₁₆	.188	2.624	5.646	..	X	..
7⁷/₃₂	.219	2.562	6.505	..	X	..
1¹/₄	.250	2.500	7.343	..	X	X
9⁹/₃₂	.281	2.438	8.160	..	X	..
5⁵/₁₆	.313	2.374	8.982	..	X	..

*Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	HF Seamless*	DOM Welded	Electric Welded*
3 x							
1 ¹¹ / ₃₂	.344	2.312	9.758	..	..	X	..
3 ⁷ / ₈	.375	2.250	10.51	..	..	X	..
7 ¹ / ₁₆	.438	2.124	11.98	..	..	X	..
1 ¹ / ₂	.500	2.000	13.35	..	..	X	..
9 ¹ / ₁₆	.563	1.874	14.65	..	..	X	..
5 ¹ / ₈	.625	1.750	15.85	..	..	X	..
1 ¹¹ / ₁₆	.688	1.624	16.99	X	..	..	..
3 ³ / ₄	.750	1.500	18.02	X	X	..	..
7 ⁷ / ₈	.875	1.250	19.86	X	..	..	..
1	1.000	1.000	21.36	X*	..	..	..
3¹/₈ x							
16	.065	2.995	2.124	..	..	X	X
11	.120	2.885	3.851	..	..	X	..
1 ¹ / ₈	.125	2.875	4.005	..	..	X	..
3 ¹ / ₁₆	.188	2.749	5.897	..	..	X	..
7 ¹ / ₃₂	.219	2.687	6.797	..	..	X	..
1 ¹ / ₄	.250	2.625	7.676	..	..	X	..
5 ¹ / ₁₆	.313	2.499	9.400	..	..	X	..
3 ¹ / ₈	.375	2.375	11.01	..	..	X	..
7 ¹ / ₁₆	.438	2.249	12.57	..	..	X	..
1 ¹ / ₂	.500	2.125	14.02	..	..	X	..
9 ¹ / ₁₆	.563	1.999	15.40	..	..	X	..
3 ³ / ₄	.750	1.625	19.02	X	..	..	..
3¹/₄ x							
16	.065	3.120	2.221	..	..	..	X
13	.095	3.060	3.201	..	..	X	..
11	.120	3.010	4.011	..	..	X	X
5 ¹ / ₃₂	.156	2.938	5.155	..	..	X	..
3 ¹ / ₁₆	.188	2.874	6.148	..	..	X	..
7 ¹ / ₃₂	.219	2.812	7.089	..	..	X	..
1 ¹ / ₄	.250	2.750	8.010	..	..	X	..
9 ¹ / ₃₂	.281	2.688	8.910	..	..	X	..
5 ¹ / ₁₆	.313	2.624	9.818	..	..	X	..
1 ¹¹ / ₃₂	.344	2.562	10.68	..	..	X	..
3 ¹ / ₈	.375	2.500	11.51	..	..	X	..
7 ¹ / ₁₆	.438	2.374	13.15	..	..	X	..
1 ¹ / ₂	.500	2.250	14.69	..	..	X	..
9 ¹ / ₁₆	.563	2.124	16.16	..	..	X	..
5 ¹ / ₈	.625	2.000	17.52	..	..	X	..
3 ³ / ₄	.750	1.750	20.03	X	..	..	..
7 ⁷ / ₈	.875	1.500	22.19	X*	..	..	..
1	1.000	1.250	24.03	X*	..	..	..

*Produced to O.D. and Wall dimensions

Harbor Steel



STEEL TUBING ROUND MECHANICAL

**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
3³/₈ x							
1 ¹ / ₈	.125	3.125	4.339	..	..	X	..
3 ¹ / ₁₆	.188	2.999	6.399	..	..	X	..
1 ¹ / ₄	.250	2.875	8.344	..	..	X	..
5 ¹ / ₁₆	.313	2.749	10.24	..	..	X	..
3 ¹ / ₈	.375	2.625	12.02	..	..	X	..
7 ¹ / ₁₆	.438	2.499	13.74	..	..	X	..
1 ¹ / ₂	.500	2.375	15.35	..	..	X	..
5 ¹ / ₈	.625	2.125	18.36	..	..	X	..
3 ¹ / ₄	.750	1.875	21.03	X	..	..	..
3¹/₂ x							
18	.049	3.402	1.806	..	..	..	X
16	.065	3.370	2.385	..	..	X	X
14	.083	3.334	3.029	..	..	X	X
11	.120	3.260	4.332	..	..	X	X
1 ¹ / ₈	.125	3.250	4.506	..	..	X	..
10	.134	3.232	4.817	..	..	X	..
5 ¹ / ₃₂	.156	3.188	5.571	..	..	X	..
7	.180	3.140	6.382	..	..	..	X
3 ¹ / ₁₆	.188	3.124	6.650	..	..	X	..
7 ¹ / ₃₂	.219	3.062	7.674	..	..	X	..
1 ¹ / ₄	.250	3.000	8.678	..	..	X	X
9 ¹ / ₃₂	.281	2.938	9.661	..	..	X	..
5 ¹ / ₁₆	.313	2.874	10.65	..	..	X	..
11 ¹ / ₃₂	.344	2.812	11.59	..	..	X	..
3 ¹ / ₈	.375	2.750	12.52	..	..	X	..
7 ¹ / ₁₆	.438	2.624	14.32	..	..	X	..
1 ¹ / ₂	.500	2.500	16.02	..	X	X	..
9 ¹ / ₁₆	.563	2.374	17.66	..	..	X	..
5 ¹ / ₈	.625	2.250	19.19	..	..	X	..
3 ¹ / ₄	.750	2.000	22.03	X	..	..	..
7 ¹ / ₈	.875	1.750	24.53	X	..	..	..
1	1.000	1.500	26.70	X*	..	..	..
3⁵/₈ x							
16	.065	3.495	2.471	..	..	X	..
1 ¹ / ₈	.125	3.375	4.673	..	..	X	..
3 ¹ / ₁₆	.188	3.249	6.901	..	..	X	..
1 ¹ / ₄	.250	3.125	9.011	..	..	X	..
5 ¹ / ₁₆	.313	2.999	11.07	..	..	X	..
3 ¹ / ₈	.375	2.875	13.02	..	..	X	..
1 ¹ / ₂	.500	2.625	16.69	..	..	X	..
9 ¹ / ₁₆	.563	2.499	18.41	..	..	X	..
5 ¹ / ₈	.625	2.375	20.03	..	..	X	..
3 ¹ / ₄	.750	2.125	23.03	X	..	..	..
3³/₄ x							
13	.095	3.560	3.708	..	..	X	..
1 ¹ / ₈	.125	3.500	4.839	..	..	X	..
10	.134	3.482	5.175	..	..	X	..

* Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



SEAMLESS DOM WELDED
ELECTRIC WELDED

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
3³/₄ x							
3 ³ / ₁₆	.188	3.374	7.152	..	..	X	..
7 ⁷ / ₃₂	.219	3.312	8.259	..	..	X	..
1 ¹ / ₄	.250	3.250	9.345	..	..	X	..
5 ⁵ / ₁₆	.313	3.124	11.49	..	..	X	..
11 ¹¹ / ₃₂	.344	3.062	12.51	..	..	X	..
3 ³ / ₈	.375	3.000	13.52	..	..	X	..
7 ⁷ / ₁₆	.438	2.874	15.49	..	..	X	..
1 ¹ / ₂	.500	2.750	17.36	..	X	X	..
9 ⁹ / ₁₆	.563	2.624	19.16	..	..	X	..
5 ⁵ / ₈	.625	2.500	20.86	..	..	X	..
11 ¹¹ / ₁₆	.688	2.374	22.50	X	..	..	..
3 ³ / ₄	.750	2.250	24.03	X	..	..	..
7 ⁷ / ₈	.875	2.000	26.87	X	..	..	..
1	1.000	1.750	29.37	X*	X	..	..
3⁷/₈ x							
1 ¹ / ₈	.125	3.625	5.006	..	..	X	..
3 ³ / ₁₆	.188	3.499	7.403	..	..	X	..
1 ¹ / ₄	.250	3.375	9.679	..	..	X	..
5 ⁵ / ₁₆	.313	3.249	11.91	..	..	X	..
3 ³ / ₈	.375	3.125	14.02	..	..	X	..
7 ⁷ / ₁₆	.438	2.999	16.08	..	..	X	..
1 ¹ / ₂	.500	2.875	18.02	..	..	X	..
3 ³ / ₄	.750	2.375	25.03	X	..	..	..
4 x							
16	.065	3.870	2.732	..	..	..	X
14	.083	3.834	3.472	..	..	..	X
13	.095	3.810	3.962	..	..	X	X
11	.120	3.760	4.973	..	..	X	X
1 ¹ / ₈	.125	3.750	5.173	..	..	X	..
10	.134	3.732	5.533	..	..	..	X
7	.180	3.640	7.344	..	..	..	X
3 ³ / ₁₆	.188	3.624	7.654	..	..	X	..
7 ⁷ / ₃₂	.219	3.562	8.844	..	..	X	X
1 ¹ / ₄	.250	3.500	10.01	..	..	X	X
9 ⁹ / ₃₂	.281	3.438	11.16	..	..	X	..
5 ⁵ / ₁₆	.313	3.374	12.33	..	..	X	..
3 ³ / ₈	.375	3.250	14.52	..	..	X	..
7 ⁷ / ₁₆	.438	3.124	16.66	..	..	X	..
1 ¹ / ₂	.500	3.000	18.69	..	X	X	..
9 ⁹ / ₁₆	.563	2.874	20.67	..	..	X	..
5 ⁵ / ₈	.625	2.750	22.53	..	..	X	..
11 ¹¹ / ₁₆	.688	2.624	24.34	X	..	..	..
3 ³ / ₄	.750	2.500	26.03	X	X	..	..
7 ⁷ / ₈	.875	2.250	29.20	X	..	..	..
1	1.000	2.000	32.04	X	X	..	..
1 ¹ / ₈	1.125	1.750	34.54	X*	..	..	..
1 ¹ / ₄	1.250	1.500	36.71	X*	..	..	..

*Produced to O.D. and Wall dimensions

Harbor Steel



STEEL TUBING ROUND MECHANICAL

**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
4 1/8 x							
1/4	.250	3.625	10.35	..	..	X	..
5/16	.313	3.499	12.74	..	..	X	..
3/8	.375	3.375	15.02	..	..	X	..
1/2	.500	3.125	19.36	..	..	X	..
4 1/4 x							
16	.065	4.120	2.905	..	..	..	X
11	.120	4.010	5.293	..	..	..	X
1/8	.125	4.000	5.507	..	..	X	..
5/32	.156	3.938	6.821	..	..	X	..
1/4	.250	3.750	10.68	..	..	X	..
5/16	.313	3.624	13.16	..	..	X	..
11/32	.344	3.562	14.35	..	..	X	..
3/8	.375	3.500	15.52	..	..	X	..
7/16	.438	3.374	17.83	..	..	X	..
1/2	.500	3.250	20.03	..	..	X	..
5/8	.625	3.000	24.20	..	..	X	..
11/16	.688	2.874	26.17	X	..	..	..
3/4	.750	2.750	28.04	X	..	..	..
7/8	.875	2.500	31.54	X	..	..	..
1	1.000	2.250	34.71	X	X	..	..
1 1/8	1.125	2.000	37.55	X*	..	..	..
1 1/4	1.250	1.750	40.05	X*	..	..	..
4 3/8 x							
3/16	.188	3.999	8.407	..	..	X	..
1/4	.250	3.875	11.01	..	..	X	..
5/16	.313	3.749	13.58	..	..	X	..
3/8	.375	3.625	16.02	..	..	X	..
1/2	.500	3.375	20.69	..	..	X	..
5/8	.625	3.125	25.03	..	..	X	..
3/4	.750	2.875	29.04	X	..	..	..
4 1/2 x							
16	.065	4.370	3.079	..	..	..	X
14	.083	4.334	3.915	..	..	..	X
13	.095	4.310	4.469	..	..	X	X
11	.120	4.260	5.613	..	..	..	X
1/8	.125	4.250	5.841	..	..	X	..
7	.180	4.140	8.305	..	..	..	X
3/16	.188	4.124	8.658	..	..	X	..
7/32	.219	4.062	10.01	..	..	X	..
1/4	.250	4.000	11.35	..	..	X	X
5/16	.313	3.874	14.00	..	..	X	..

* Produced to O.D. and Wall dimensions

STEEL TUBING ROUND MECHANICAL



**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
4 1/2 x							
3/8	.375	3.750	16.52	..	..	X	..
7/16	.438	3.624	19.00	..	..	X	..
1/2	.500	3.500	21.36	..	..	X	..
9/16	.563	3.374	23.67	..	..	X	..
5/8	.625	3.250	25.87	..	..	X	..
3/4	.750	3.000	30.04	X	X	..	..
7/8	.875	2.750	33.88	X	..	..	..
1	1.000	2.500	37.38	X	X	..	..
1 1/8	1.125	2.250	40.55	X	..	..	..
1 1/4	1.250	2.000	43.39	..	X	..	..
1 1/2	1.500	1.500	48.06	..	X	..	..
4 5/8 x							
3/16	.188	4.249	8.909	..	..	X	..
1/4	.250	4.125	11.68	..	..	X	..
5/16	.313	3.999	14.41	..	..	X	..
3/8	.375	3.875	17.02	..	..	X	..
1/2	.500	3.625	22.03	..	..	X	..
3/4	.750	3.125	31.04	X	..	..	..
4 3/4 x							
1 1/8	.120	4.510	5.934	..	..	..	X
1/8	.125	4.500	6.174	..	..	X	..
3/16	.188	4.374	9.160	..	..	X	..
1/4	.250	4.250	12.02	..	..	X	..
5/16	.313	4.124	14.83	..	..	X	..
3/8	.375	4.000	17.52	..	..	X	..
7/16	.438	3.874	20.17	..	..	X	..
1/2	.500	3.750	22.70	..	..	X	..
5/8	.625	3.500	27.53	..	..	X	..
3/4	.750	3.250	32.04	X	X	..	..
7/8	.875	3.000	36.21	X	..	..	..
1	1.000	2.750	40.05	X	..	..	..
4 7/8 x							
3/16	.188	4.499	9.411	..	..	X	..
7/16	.438	3.999	20.76	..	..	X	..
1/2	.500	3.875	23.36	..	..	X	..
3/4	.750	3.375	33.04	X	..	..	..
5 x							
16	.065	4.870	3.426	..	..	..	X
14	.083	4.834	4.359	..	..	..	X
11	.120	4.760	6.254	..	..	X	X
1/8	.125	4.750	6.508	..	..	X	..
7	.180	4.640	9.266	..	..	..	X
3/16	.188	4.624	9.662	..	..	X	..
1/4	.250	4.500	12.68	..	..	X	X
5/16	.313	4.374	15.67	..	..	X	..

*Produced to O.D. and Wall dimensions

Harbor Steel



STEEL TUBING ROUND MECHANICAL

**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
5 x							
3/8	.375	4.250	18.52	..	..	X	..
7/10	.438	4.124	21.34	..	..	X	..
1/2	.500	4.000	24.03	..	..	X	..
5/8	.625	3.750	29.20	..	..	X	..
3/4	.750	3.500	34.04	X	X	..	..
7/8	.875	3.250	38.55	X	X	..	..
1	1.000	3.000	42.72	X	X	..	..
1 1/8	1.125	2.750	46.56	X	..	..	..
1 1/4	1.250	2.500	50.06	X	..	..	..
1 1/2	1.500	2.000	56.07	..	X	..	..
5 1/8 x							
5/10	.313	4.499	16.09	..	..	X	..
5/8	.625	3.875	30.04	..	..	X	..
5 1/4 x							
1/8	.125	5.000	6.842	..	..	X	..
3/10	.188	4.874	10.16	..	..	X	..
1/4	.250	4.750	13.35	..	..	X	..
5/10	.313	4.624	16.50	..	..	X	..
3/8	.375	4.500	19.52	..	..	X	..
1/2	.500	4.250	25.37	..	..	X	..
5/8	.625	4.000	30.87	..	..	X	..
3/4	.750	3.750	36.05	X	..	..	..
7/8	.875	3.500	40.88	X	X	..	..
1	1.000	3.250	45.39	X	X	..	..
1 1/4	1.250	2.750	53.40	X	X	..	..
5 3/8 x							
3/10	.188	4.999	10.41	..	..	X	..
5 1/2 x							
16	.065	5.370	3.773	..	..	..	X
11	.120	5.260	6.895	..	..	..	X
3/10	.188	5.124	10.67	..	..	X	..
1/4	.250	5.000	14.02	..	..	X	X
5/10	.313	4.874	17.34	..	..	X	..
3/8	.375	4.750	20.53	..	..	X	..
7/10	.438	4.624	23.68	..	..	X	..
1/2	.500	4.500	26.70	..	..	X	..
5/8	.625	4.250	32.54	..	..	X	..
3/4	.750	4.000	38.05	X	..	..	..
7/8	.875	3.750	43.22	X	..	..	..
1	1.000	3.500	48.06	X	X	..	..
1 1/4	1.250	3.000	56.74	X	..	..	..
1 1/2	1.500	2.500	64.08	..	X	..	..
5 5/8 x							
5/10	.313	4.999	17.76	..	..	X	..
5/8	.625	4.375	33.38	..	..	X	..

*Produced to O.D. and Wall dimensions

Harbor Steel

STEEL TUBING ROUND MECHANICAL



**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
5³/₄ x							
1 ¹ / ₈	.125	5.500	7.509	..	..	X	..
1 ¹ / ₄	.250	5.250	14.69	..	..	X	..
5 ⁵ / ₁₆	.313	5.124	18.18	..	..	X	..
3 ³ / ₈	.375	5.000	21.53	..	..	X	..
1 ¹ / ₂	.500	4.750	28.04	..	..	X	..
3 ¹ / ₄	.750	4.250	40.05	X	..	..	..
7 ⁷ / ₈	.875	4.000	45.56	X	..	..	..
1	1.000	3.750	50.73	X	X	..	..
6 x							
16	.065	5.870	4.120	..	..	..	X
14	.083	5.834	5.245	..	..	..	X
11	.120	5.760	7.536	..	..	..	X
1 ¹ / ₈	.125	5.750	7.843	..	..	X	..
10	.134	5.732	8.395	..	..	..	X
7	.180	5.640	11.19	..	..	..	X
3 ¹ / ₁₆	.188	5.624	11.67	..	..	X	..
1 ¹ / ₄	.250	5.500	15.35	..	..	X	X
5 ⁵ / ₁₆	.313	5.374	19.01	..	..	X	..
3 ³ / ₈	.375	5.250	22.53	..	..	X	..
1 ¹ / ₂	.500	5.000	29.37	..	X	X	..
5 ⁵ / ₈	.625	4.750	35.88	..	..	X	..
3 ¹ / ₄	.750	4.500	42.05	X	..	..	..
7 ⁷ / ₈	.875	4.250	47.89	X	..	..	..
1	1.000	4.000	53.40	X	X	..	..
1 ¹ / ₄	1.250	3.500	63.41	X	X	..	..
1 ¹ / ₂	1.500	3.000	72.09	..	X	..	..
6¹/₄ x							
1 ¹ / ₈	.125	6.000	8.177	..	..	X	..
3 ³ / ₁₆	.188	5.874	12.17	..	..	X	..
1 ¹ / ₄	.250	5.750	16.02	..	..	X	..
5 ⁵ / ₁₆	.313	5.624	19.85	..	..	X	..
3 ³ / ₈	.375	5.500	23.53	..	..	X	..
1 ¹ / ₂	.500	5.250	30.71	..	..	X	..
5 ⁵ / ₈	.625	5.000	37.55	..	..	X	..
3 ¹ / ₄	.750	4.750	44.06	X	..	..	..
7 ⁷ / ₈	.875	4.500	50.23	X	..	..	..
1	1.000	4.250	56.07	X	X	..	..
6¹/₂ x							
10	.134	6.232	9.111	..	..	X	..
3 ³ / ₁₆	.188	6.124	12.67	..	..	X	..
1 ¹ / ₄	.250	6.000	16.69	..	..	X	..
3 ³ / ₈	.375	5.750	24.53	..	..	X	..
1 ¹ / ₂	.500	5.500	32.04	..	..	X	..
5 ⁵ / ₈	.625	5.250	39.22	..	..	X	..
3 ¹ / ₄	.750	5.000	46.06	X	..	..	..
7 ⁷ / ₈	.875	4.750	52.57	X	..	..	..

*Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
6¹/₂ x							
1	1.000	4.500	58.74	X	X	..	..
1 ¹ / ₄	1.250	4.000	70.09	X	X	..	..
1 ¹ / ₂	1.500	3.500	80.10	..	X	..	..
6⁵/₈ x							
1 ¹ / ₈	.125	6.375	8.678	..	..	..	X
3 ¹ / ₁₀	.188	6.249	12.92	..	..	X	..
6³/₄ x							
1 ¹ / ₄	.250	6.250	17.36	..	..	X	..
3 ¹ / ₈	.375	6.000	25.53	..	..	X	..
1 ¹ / ₂	.500	5.750	33.38	..	..	X	..
7 ¹ / ₈	.875	5.000	54.90	X	..	..	..
1	1.000	4.750	61.41	X	X	..	..
7 x							
17	.058	6.884	4.300	..	..	..	X
15	.072	6.856	5.327	..	..	..	X
1 ¹ / ₈	.125	6.750	9.178	..	..	..	X
3 ¹ / ₁₀	.188	6.624	13.68	..	..	X	..
1 ¹ / ₄	.250	6.500	18.02	..	..	X	..
3 ¹ / ₈	.375	6.250	26.53	..	..	X	..
1 ¹ / ₂	.500	6.000	34.71	..	..	X	..
5 ¹ / ₈	.625	5.750	42.55	..	..	X	..
3 ¹ / ₄	.750	5.500	50.06	X	X	..	..
1	1.000	5.000	64.08	X	X	..	..
1 ¹ / ₄	1.250	4.500	76.76	X	X	..	..
1 ¹ / ₂	1.500	4.000	88.11	..	X	..	..
2	2.000	3.000	106.8	..	X	..	..
7¹/₄ x							
3 ¹ / ₁₀	.188	6.874	14.18	..	..	X	..
1 ¹ / ₄	.250	6.750	18.69	..	..	X	..
3 ¹ / ₈	.375	6.500	27.53	..	..	X	..
1 ¹ / ₂	.500	6.250	36.05	..	..	X	..
1	1.000	5.250	66.75	X	X	..	..
7¹/₂ x							
1 ¹ / ₄	.250	7.000	19.36	..	..	X	..
3 ¹ / ₈	.375	6.750	28.54	..	..	X	..
1 ¹ / ₂	.500	6.500	37.38	..	..	X	..
5 ¹ / ₈	.625	6.250	45.89	..	..	X	..
3 ¹ / ₄	.750	6.000	54.07	X	..	..	..
1	1.000	5.500	69.42	X	X	..	..
1 ¹ / ₄	1.250	5.000	83.44	X	..	..	..
1 ¹ / ₂	1.500	4.500	96.12	..	X	..	..

*Produced to O.D. and Wall dimensions

**STEEL TUBING
ROUND MECHANICAL**
SEAMLESS DOM WELDED
ELECTRIC WELDED



O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
7³/₄ x							
1 ¹ / ₄	.250	7.250	20.03	..	..	X	..
3 ¹ / ₈	.375	7.000	29.54	..	..	X	..
1 ¹ / ₂	.500	6.750	38.72	..	..	X	..
5 ¹ / ₈	.625	6.500	47.56	..	..	X	..
1	1.000	5.750	72.09	X	X	..	..
8 x							
15	.072	7.856	6.096	..	..	..	X
12	.109	7.782	9.186	..	..	..	X
1 ¹ / ₈	.125	7.750	10.51	..	..	..	X
10	.134	7.732	11.26	..	..	..	X
3 ¹ / ₁₆	.188	7.624	15.69	..	..	..	X
1 ¹ / ₄	.250	7.500	20.69	..	..	X	X
3 ¹ / ₈	.375	7.250	30.54	..	..	X	..
1 ¹ / ₂	.500	7.000	40.05	..	X	X	..
5 ¹ / ₈	.625	6.750	49.23	..	..	X	..
3 ¹ / ₄	.750	6.500	58.07	X	X	..	..
1	1.000	6.000	74.76	X	X	..	..
1 ¹ / ₈	1.125	5.750	82.60	X	..	..	..
1 ¹ / ₄	1.250	5.500	90.11	X	..	..	..
1 ¹ / ₂	1.500	5.000	104.1	..	X	..	..
2	2.000	4.000	128.2	..	X	..	..
8¹/₄ x							
1 ¹ / ₄	.250	7.750	21.36	..	..	X	..
5 ¹ / ₈	.625	7.000	50.90	..	..	X	..
1	1.000	6.250	77.43	X	X	..	..
8¹/₂ x							
1 ¹ / ₄	.250	8.000	22.03	..	..	X	..
3 ¹ / ₈	.375	7.750	32.54	..	..	X	..
1 ¹ / ₂	.500	7.500	42.72	..	..	X	..
3 ¹ / ₄	.750	7.000	62.08	X	..	..	..
1	1.000	6.500	80.10	..	X	..	..
1 ¹ / ₄	1.250	6.000	96.79	X	X	..	..
1 ¹ / ₂	1.500	5.500	112.1	..	X	..	..
8⁵/₈ x							
1 ¹ / ₈	.125	8.375	11.35	..	..	..	X
8³/₄ x							
3 ¹ / ₈	.375	8.000	33.54	..	..	X	..
1	1.000	6.750	82.77	X	X	..	..
1 ¹ / ₂	1.500	5.750	116.1	..	X	..	..

*Produced to O.D. and Wall dimensions



STEEL TUBING ROUND MECHANICAL

**SEAMLESS DOM WELDED
ELECTRIC WELDED**

O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
9 x							
1/4	.250	8.500	23.36	..	..	X	..
3/4	.750	7.500	66.08	..	X	..	..
1	1.000	7.000	85.44	..	X	..	..
1 1/4	1.250	6.500	103.5	..	X	..	..
1 1/2	1.500	6.000	120.2	..	X	..	..
2	2.000	5.000	149.5	..	X	..	..
9 1/4 x							
1/2	.500	8.250	46.73	..	..	X	..
1	1.000	7.250	88.11	X	X	..	..
9 1/2 x							
1/4	.250	9.000	24.70	..	..	X	..
1/2	.500	8.500	48.06	..	..	X	..
3/4	.750	8.000	70.09	X	..	..	..
1	1.000	7.500	90.78	X	X	..	..
1 1/2	1.500	6.500	128.2	..	X	..	..
2	2.000	5.500	160.2	..	X	..	..
9 3/4 x							
1/4	.250	9.250	25.37	..	..	X	..
1/2	.500	8.750	49.40	..	..	X	..
1	1.000	7.750	93.45	..	X	..	..
10 x							
15	.072	9.856	7.634	..	..	..	X
12	.109	9.782	11.51	..	..	..	X
10	.134	9.732	14.12	..	..	..	X
3/16	.188	9.624	19.70	..	..	..	X
1/4	.250	9.500	26.03	..	..	X	..
3/8	.375	9.250	38.55	..	..	X	..
1/2	.500	9.000	50.73	..	..	X	..
3/4	.750	8.500	74.09	X	..	..	..
1	1.000	8.000	96.12	..	X	..	..
1 1/4	1.250	7.500	116.8	X	X	..	..
2	2.000	6.000	170.9	..	X	..	..
10 1/4 x							
1 1/2	1.500	7.250	140.2	..	X	..	..

*Produced to O.D. and Wall dimensions

**STEEL TUBING
ROUND MECHANICAL**
SEAMLESS DOM WELDED
ELECTRIC WELDED



O.D. & Ga.	Wall	I.D.	Lbs. Per Ft.	C.D. Seamless	H.F. Seamless*	DOM Welded	Electric Welded*
10¹/₂ x							
¹ / ₄	.250	10.000	27.37	..	..	X	..
³ / ₈	.375	9.750	40.55	..	..	X	..
¹ / ₂	.500	9.500	53.40	..	..	X	..
1	1.000	8.500	101.5	..	X	..	..
1¹/₄	1.250	8.000	123.5	..	X	..	..
1¹/₂	1.500	7.500	144.2	..	X	..	..
10³/₄ x							
1	1.000	8.750	104.1	..	X	..	..
1¹/₄	1.250	8.250	126.8	..	X	..	..
11 x							
¹ / ₂	.500	10.000	56.07	..	..	X	..
1	1.000	9.000	106.8	..	X	..	..
1¹/₂	1.500	8.000	152.2	..	X	..	..
2	2.000	7.000	192.2	..	X	..	..
11¹/₂ x							
1	1.000	9.500	112.1	..	X	..	..
11³/₄ x							
³ / ₄	.750	10.250	88.11	X	X	..	..
12 x							
³ / ₁₆	.188	11.624	23.72	..	..	..	X
¹ / ₄	.250	11.500	31.37	..	..	X	..
³ / ₈	.375	11.250	46.56	..	..	X	..
¹ / ₂	.500	11.000	61.41	..	..	X	..
³ / ₄	.750	10.500	90.11	..	X	..	..
1	1.000	10.000	117.5	..	X	..	..
1¹/₂	1.500	9.000	168.2	..	X	..	..
2	2.000	8.000	213.6	..	X	..	..
12¹/₄ x							
³ / ₄	.750	10.750	92.12	..	X	..	..
13 x							
1	1.000	11.000	128.2	..	X	..	..
15 x							
³ / ₄	.750	13.500	114.1	..	X	..	..

*Produced to O.D. and Wall dimensions



STEEL HYDRAULIC-LINE TUBING

Cold Drawn Welded

Produced To O.D. and I.D. Dimensions

Soft Annealed—Oiled

SAE J525—Electronically tested

Stock Lengths: 20 Ft. Random

O.D. & Ga.	Wall	I.D.	Lbs. per Ft.
1/8 x			
22 *	.028	.069	.0290
1/4 x			
22	.028	.194	.0664
20	.035	.180	.0804
18	.049	.152	.1052
5/16 x			
20	.035	.243	.1039
18	.049	.215	.1382
3/8 x			
20	.035	.305	.1271
18	.049	.277	.1706
16	.065	.245	.2152
1/2 x			
20	.035	.430	.1738
18	.049	.402	.2360
16	.065	.370	.3020
14	.083	.334	.3696
5/8 x			
20	.035	.555	.2205
18	.049	.527	.3014
16	.065	.495	.3888
14	.083	.459	.4805
13	.095	.435	.5377
3/4 x			
20	.035	.680	.2673
18	.049	.652	.3668
16	.065	.620	.4755
14	.083	.584	.5913
13	.095	.560	.6646
11	.120	.510	.8074
7/8 x			
16	.065	.745	.5623
14	.083	.709	.7021
13	.095	.685	.7914
12	.109	.657	.8917
1 x			
16	.065	.870	.6491
14	.083	.834	.8129
13	.095	.810	.9182
12	.109	.782	1.037
11	.120	.760	1.128
1 1/4 x			
18	.049	1.152	.6285
16	.065	1.120	.8226
13	.095	1.060	1.172
12	.109	1.032	1.328
11	.120	1.010	1.448
1 1/2 x			
16	.065	1.370	.9962
13	.095	1.310	1.426
11	.120	1.260	1.769
2 x			
16	.065	1.870	1.343
11	.120	1.760	2.409

* Produced to O.D. and Wall dimensions

Harbor Steel



PIPE SIZE STEEL TUBING ROUND STRUCTURAL

46 ksi Minimum Yield

ASTM A 500 Grade C

Produced by the Electric Resistance Welded Process. Uncoated.
Not Pressure Tested. This product is less expensive than regular pipe and
has higher mechanical properties and better finish.

Random Lengths 21 Ft.

Nom. Size In Inches	Wall	O.D.	Lbs. per Ft.	Nom. Size In Inches	Wall	O.D.	Lbs. per Ft.
1/2	.083	.840	.6710	1 1/4	.140	1.660	2.273
1/2	.109	.840	.8510	1 1/2	.109	1.900	2.085
3/4	.113	1.050	1.130	1 1/2	.145	1.900	2.718
1	.109	1.315	1.404	2	.109	2.375	2.638
1	.133	1.315	1.679	2	.154	2.375	3.653
1 1/4	.109	1.660	1.806	2 1/2	.203	2.815	5.790



STEEL ROUND BLACK PIPE

Uncoated

Plain Ends*

Also available Galvanized

A 53 Type F Schedule 40

Schedule 80

A 53 Gr. B, Type E Schedule 40 & Std

Schedule 80 & XS

Nominal Size In Inches	Schedule	Wall	O.D.	Lbs. per Ft.	ASTM A 53 Type F	ASTM A 53 Type E Gr. B
1/8	40	.068	.405	.24	21'	..
1/4	40	.088	.540	.42	21'	..
1/4	80	.119	.540	.54	21'	..
3/8	40	.091	.675	.57	21'	..
3/8	80	.126	.675	.74	21'	..
1/2	40	.109	.840	.85	21'	..
1/2	80	.147	.840	1.09	21'	..
3/4	40	.113	1.050	1.13	21'	..
3/4	80	.154	1.050	1.47	21'	..
1	40	.133	1.315	1.68	21'	..
1	80	.179	1.315	2.17	21'	..
1 1/4	40	.140	1.660	2.27	21'	..
1 1/4	80	.191	1.660	3.00	21'	..
1 1/2	40	.145	1.900	2.72	21'	..
1 1/2	80	.200	1.900	3.63	21'	..
2	40	.154	2.375	3.65	21'	..
2	80	.218	2.375	5.02	21'	..
2 1/2	40	.203	2.875	5.79	21'	..
2 1/2	80	.276	2.875	7.66	21'	..
3	40	.216	3.500	7.58	21'	..
3	80	.300	3.500	10.25	21'	..
3 1/2	40	.226	4.000	9.11	21'	..
3 1/2	80	.318	4.000	12.51	21'	..
4	40	.237	4.500	10.79	21'	..
4	80	.337	4.500	14.98	21'	..
5	40	.258	5.563	14.62	..	20-24'
5	80	.375	5.563	20.78	..	20-24'
6	40	.280	6.625	18.97	..	20-24'
6	80	.432	6.625	28.57	..	20-24'
8	40	.322	8.625	28.55	..	20-24'
8	80	.500	8.625	43.39	..	20-24'
10	40	.365	10.750	40.48	..	20-24'
12	XS	.500	12.750	65.42	..	20-24'
14	Std.	.375	14.000	54.57	..	20-24'
14	XS	.500	14.000	72.09	..	20-24'
16	XS	.500	16.000	82.77	..	20-24'

* Can be furnished threaded or threaded and coupled

Harbor Steel

TUBE & PIPE



Pipe, Plain End

Structural Grade
ASTM A500, Stock Length 21 Ft.

Nominal Size In Inch	Weight Per Ft. In Lbs.	O.D. In Inches	Wall Thickness Inches	Butt Welded ASTM A53F	ERW ASTM A53E	Pipe Size ERW
Schedule 40 - Standard¹						
1/8	.2400	.405	.0880	X	--	--
1/4	.4200	.540	.0880	X	--	--
3/8	.5700	.675	.0910	X	--	--
1/2	.8500	.840	.1090	X	X	X
3/4	1.130	1.050	.1130	X	X	X
1	1.680	1.315	.1330	X	--	X
1 1/4	2.270	1.660	.1400	X	--	X
1 1/2	2.720	1.900	.1450	X	--	X
2	3.650	2.375	.1540	X	--	X
2 1/2	5.790	2.875	.2030	X	X	X
3	7.580	3.500	.2160	X	X	X
3 1/2	9.110	4.000	.2280	X	X	X
4	10.79	4.500	.2370	X	X	X
5	14.62	5.563	.2580	--	X	--
6	18.97	6.625	.2800	--	X	X
8	28.55	8.625	.3220	--	X	X
10	40.48	10.750	.3650	--	X	--
12	49.58	12.750	.3750	--	X	--
14	54.57	14.000	.3750	--	X	--
16	62.58	16.000	.3750	--	X	--
Schedule 80 - Extra Heavy²						
1/4	.5400	.540	.1190	X	--	--
3/8	.7388	.675	.1280	X	--	--
1/2	1.090	.840	.1470	X	--	--
3/4	1.470	1.050	.1540	X	--	--
1	2.170	1.315	.1790	X	--	--
1 1/4	3.000	1.660	.1910	X	--	--
1 1/2	3.630	1.900	.2000	X	--	--
2	5.020	2.375	.2180	X	--	--
2 1/2	7.660	2.875	.2780	X	--	--
3	10.25	3.500	.3000	X	--	--
3 1/2	12.51	4.000	.3180	X	--	--
4	14.98	4.500	.3370	X	--	--
10	54.74	10.750	.5000	--	X	--
12	65.42	12.750	.5000	--	X	--
14	72.09	14.000	.5000	--	X	--
16	82.77	16.000	.5000	--	X	--

¹ For sizes under 12" Schedule 40 and Standard are the same.

² For sizes under 10" Schedule 80 and Extra Heavy are the same.

³ Seamless ASTM A53 GR.B stocked in San Francisco only.

STAINLESS STEEL SHEETS

TYPE 304/304L



Cold Rolled, Annealed No. 2B and #4

ASTM A 240**

ASME SA-240**

ASTM A 666 Anld.

Gage and Size in Inches	Lbs. per Square Foot	Est. Lbs. per Sheet
26 Ga. (.018)		
48 x 96	.7560	24.19
48 x 120	.7560	30.24
24 Ga. (.024)		
48 x 96	1.008	32.26
48 x 120	1.008	40.32
22 Ga. (.030)		
48 x 96	1.260	40.32
48 x 120	1.260	50.40
48 x 144	1.260	60.48
20 Ga. (.036)		
48 x 96	1.512	48.38
48 x 120	1.512	60.48
48 x 144	1.512	72.58
60 x 120	1.512	75.60
60 x 144	1.512	90.72
18 Ga. (.048)		
48 x 96	2.016	64.51
48 x 120	2.016	80.64
48 x 144	2.016	96.77
60 x 120	2.016	100.8
60 x 144	2.016	121.0
16 Ga. (.060)		
48 x 96	2.520	80.64
48 x 120	2.520	100.8
48 x 144	2.520	121.0
60 x 96	2.520	100.8
60 x 120	2.520	126.0
60 x 144	2.520	151.2
14 Ga. (.075)		
48 x 96	3.150	100.8
48 x 120	3.150	126.0
48 x 144	3.150	151.2
60 x 96	3.150	126.0
60 x 120	3.150	157.5
60 x 144	3.150	189.0
13 Ga. (.090)		
48 x 120	3.780	151.2
12 Ga. (.105)		
48 x 96	4.410	141.1
48 x 120	4.410	176.4
48 x 144	4.410	211.7
60 x 96	4.410	176.4
60 x 120	4.410	220.5
60 x 144	4.410	264.6
11 Ga. (.120)		
48 x 96	5.040	161.3
48 x 120	5.040	201.6
48 x 144	5.040	241.9
60 x 96	5.040	201.6
60 x 120	5.040	252.0
60 x 144	5.040	302.4
10 Ga. (.135)		
48 x 96	5.670	181.4
48 x 120	5.670	226.8
48 x 144	5.670	272.2
60 x 96	5.670	226.8
60 x 120	5.670	283.5
60 x 144	5.670	340.2
7 Ga. (.1874)		
48 x 96	7.871	251.9
48 x 120	7.871	314.8
48 x 144	7.871	377.8
60 x 120	7.871	393.6



STAINLESS STEEL SHEETS

TYPE 316/316L

Cold Rolled, Annealed No. 2B Finish

ASTM A 240** ASME SA-240** ASTM A 666 Anld.

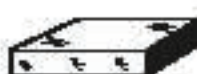
Gage and Size in Inches	Lbs. per Square Foot	Est. Lbs. per Sheet
24 Ga. (.024)		
48 x 96	1.008	32.26
48 x 120	1.008	40.32
22 Ga. (.030)		
48 x 120	1.260	50.40
20 Ga. (.036)		
48 x 120	1.512	60.48
18 Ga. (.048)		
48 x 96	2.016	64.51
48 x 120	2.016	80.64
16 Ga. (.060)		
48 x 96	2.520	80.64
48 x 120	2.520	100.8
60 x 120	2.520	126.0
60 x 144	2.520	151.2
14 Ga. (.075)		
48 x 96	3.150	100.8
48 x 120	3.150	126.0
60 x 120	3.150	157.5
60 x 144	3.150	189.0
12 Ga. (.105)		
48 x 120	4.410	176.4
48 x 144	4.410	211.7
60 x 120	4.410	220.5
60 x 144	4.410	264.6
11 Ga. (.120)		
48 x 96	5.040	161.3
48 x 120	5.040	201.6
48 x 144	5.040	241.9
60 x 120	5.040	252.0
60 x 144	5.040	302.4
10 Ga. (.135)		
48 x 120	5.670	226.8
48 x 144	5.670	272.2
60 x 120	5.670	283.5
60 x 144	5.670	340.2
7 Ga. (.1874)		
48 x 120	7.871	314.8
60 x 120	7.871	393.5

STAINLESS STEEL PLATES
TYPES 304, 304L, 304/304L
Hot Rolled, Annealed and Pickled
Non-Magnetic*



ASTM A 240 ASME SA-240 ASTM A 666 Anld

Size in Inches	Lbs. Per Sq. Ft.	Est. Lbs. per Ft.	304	304L	304/ 304L
3/16 x	48	34.32	X	X	..
	60	42.90	X	X	..
	72	51.47	X	X	..
	96	68.63	X	X	..
1/4 x	48 ... 11.16	44.64	X	X	..
	60	55.80	X	X	..
	72	66.96	X	..	..
	96	89.28	X	X	..
5/16 x	48 ... 13.75	55.00	X	X	..
	60	68.75	X	X	..
	72	82.50	X	X	..
	96	110.0	X	X	..
3/8 x	48 ... 16.50	66.00	X	X	..
	60	82.50	X	X	..
	72	99.00	X	..	..
	96	132.0	X	X	..
1/2 x	48 ... 21.66	86.64	X	X	..
	60	108.3	X	X	..
	96	173.3	X	X	..
5/8 x	48 ... 26.83	107.3	..	..	X
	60	134.1	..	..	X
	96	214.6	..	..	X
3/4 x	48 ... 32.12	128.5	..	..	X
	60	160.6	..	..	X
	96	257.0	..	..	X
7/8 x	60 ... 37.29	186.4	..	..	X
	96	298.3	..	..	X
1 x	48 ... 42.67	170.7	..	..	X
	60	213.3	..	..	X
	96	341.4	..	..	X
1 1/8 x	60 ... 47.83	239.1	..	..	X
1 1/4 x	48 ... 53.00	212.0	..	..	X
	60	265.0	..	..	X
	96	424.0	..	..	X
1 1/2 x	48 ... 63.34	253.4	..	..	X
	60	316.7	..	..	X
	96	506.7	..	..	X
1 3/4 x	48 ... 73.67	294.7	..	..	X
	60	368.3	..	..	X
	96	589.4	..	..	X



STAINLESS STEEL PLATES TYPES 316/316L

Hot Rolled, Annealed and Pickled

ASTM A 240 ASME SA-240

ASTM A 666 Anld

Size in Inches	Lbs. Per Sq. Ft.	Est. Lbs. per Ft.
3/16 x 48	8.579	34.32
60		42.90
72		51.47
96		68.63
1/4 x 48	11.16	44.64
60		55.80
72		66.96
96		89.28
5/16 x 48	13.75	55.00
60		68.75
72		82.50
96		110.0
3/8 x 48	16.50	66.00
60		82.50
72		99.00
96		132.0
1/2 x 48	21.66	86.64
60		108.3
96		173.3
5/8 x 48	26.83	107.3
60		134.1
96		214.6
3/4 x 48	32.12	128.5
60		160.6
96		257.0
7/8 x 60	37.29	186.4
96		298.3
1 x 48	42.67	170.7
60		213.3
96		341.4
1 1/4 x 48	53.00	212.0
60		265.0
96		424.0
1 1/2 x 48	63.34	253.4
60		316.7
96		506.7
1 3/4 x 48	73.67	294.7
60		368.3

*May be slightly magnetic when cold worked



STAINLESS STEEL ROUNDS

TYPE 303 & 316

Bearing Shaft Quality

Annealed and Centerless Ground

Optimum Machining

ASTM A 582 Cond. A AMS 5640 Type 1 QQ-S-764 Cond. A

Stock Lengths 12 Ft. Random

Size in Inches	Est. Lbs. per Ft.
.2495/ .2485	.1655
.3745/ .3735	.3735
.4995/ .4985	.6648
.6245/ .6235	1.040
.7495/ .7485	1.498
.8745/ .8735	2.040
.9995/ .9985	2.665
1.1245/1.1235	3.373
1.1870/1.1860	3.759
1.2495/1.2485	4.165
1.3745/1.3735	5.041
1.4370/1.4360	5.510
1.4995/1.4985	6.000
1.7495/1.7480	8.165
1.9995/1.9980	10.67

STAINLESS STEEL ROUNDS
TYPES: 203EZ, 303, 303 Accuracy
304, 304L, 316, 316L



Specifications	203EZ	303	Accuracy Stock 303	304	304L	316	316L
ASTM A276, A479, A580	..	..	..	X	X	X	X
ASTM A581, A582	X	X	..	..	..	..	..
ASME SA479	..	..	..	X	X	X	X
AMS 5639	..	..	..	X	..	..	..
ASM 5640	..	X	..	..	..	X	..
AMS 5647	..	..	..	..	X	..	..
AMS 5648	..	..	..	..	..	X	..
AMS 5653	..	..	..	..	..	..	X
AMS 5762	X	..	..	..	..	..	..
QQS 763	..	..	..	X	X	X	X

STAINLESS STEEL ROUNDS
TYPES: 203EZ, 303, 303 Accuracy
304, 304L, 316, 316L



Size in Inches	Lbs. per Ft.	203EZ	303	Accuracy Stock 303	304	304L	316	316L
1/16	.0104	..	X	..	..	..	..	..
3/64	.0163	..	X	..	..	..	..	..
1/32	.0235	X	X	..	..	..	..	..
7/64	.0320	..	X	..	..	..	..	..
1/8	.0417	X	X	..	X	..	X	..
9/64	.0528	..	X	..	..	..	..	..
5/32	.0652	X	X	..	..	..	..	..
3/16	.0939	X	X	..	X	..	X	..
13/64	.1102	..	X	..	..	..	..	..
7/32	.1278	X	X	..	..	..	..	..
1/4	.1669	X	X	..	X	..	X	..
11/64	.1884	..	X	..	..	..	..	..
9/32	.2113	X	X	..	..	..	..	..
5/16	.2608	X	X	..	X	..	X	..
21/64	.2875	..	X	..	..	..	..	..
11/32	.3156	X	X	..	..	..	..	..
3/8	.3755	X	X	X	X	X	X	X
25/64	.4074	..	X	..	..	..	..	..
13/32	.4408	X	X	..	..	..	..	..
7/16	.5111	X	X	..	X	..	X	..
15/32	.5869	..	X	..	..	..	..	..
1/2	.6676	X	X	X	X	X	X	X
27/32	.7538	X	X	..	..	..	..	..
9/16	.8449	X	X	..	X	..	X	..
19/32	.9416	X	X	..	..	..	..	..
5/8	1.043	X	X	X	X	X	X	X
27/32	1.150	..	X	..	..	..	..	..



STAINLESS STEEL ROUNDS **TYPES: 203EZ, 303, 303 Accuracy** **304, 304L, 316, 316L**

Size in Inches	Lbs. per Ft.	203EZ	303	Accuracy Stock 303	304	304L	316	316L
1 ¹ / ₁₆	1.262	X	X	..	X	..	X	..
3 ¹ / ₈	1.502	X	X	X	X	X	X	X
1 ³ / ₁₆	1.763	X	X	..	X	..	X	..
7 ¹ / ₈	2.045	X	X	X	X	..	X	..
1 ⁵ / ₁₆	2.347	X	X	..	X	..	X	..
1	2.670	X	X	X	X	X	X	X
1 ¹ / ₈	3.015	X	X	..	X	..	X	..
1 ¹ / ₂	3.380	X	X	..	X	..	X	..
1 ⁹ / ₁₆	3.766	X	X	..	X	..	X	..
1 ³ / ₄	4.173	X	X	X	X	X	X	X
1 ⁷ / ₁₆	4.600	X	X	..	X	..	X	..
1 ⁷ / ₈	5.049	X	X	..	X	X	X	X
1 ⁷ / ₁₆	5.518	..	X	..	X	..	..	..
1 ¹ / ₂	6.008	X	X	..	X	X	X	X
1 ⁹ / ₁₆	6.520	..	X	..	X	..	X	..
1 ⁵ / ₈	7.052	X	X	..	X	X	X	X
1 ¹¹ / ₁₆	7.604	..	X	..	X	..	X	..
1 ³ / ₄	8.178	X	X	..	X	X	X	X
1 ⁷ / ₈	9.388	X	X	..	X	X	X	X
1 ¹⁵ / ₁₆	10.02	..	X	..	X	..	X	..
2	10.69	X	X	..	X	X	X	X
2 ¹ / ₁₆	11.36	..	X	..	..	..	..	..
2 ¹ / ₈	12.06	X	X	..	X	X	X	X
2 ¹ / ₄	13.52	X	X	..	X	X	X	X
2 ³ / ₈	15.06	X	X	..	X	X	X	X
2 ⁷ / ₁₆	15.87	..	X	..	X	..	X	..
2 ¹ / ₂	16.69	X	X	..	X	X	X	X
2 ⁹ / ₁₆	17.53	..	X	..	X	..	..	..
2 ⁵ / ₈	18.40	..	X	..	X	X	X	X
2 ³ / ₄	20.19	..	X	..	X	X	X	X
2 ⁷ / ₈	22.07	..	X	..	X	..	X	..
3	24.03	X	X	..	X	X	X	X
3 ¹ / ₈	26.08	..	X	..	X	..	X	..
3 ¹ / ₄	28.21	..	X	..	X	X	X	X
3 ³ / ₈	30.42	..	X	..	X	X	X	X
3 ¹ / ₂	32.71	..	X	..	X	X	X	X
3 ⁵ / ₈	35.09	..	X	..	X	..	X	..
3 ³ / ₄	37.55	..	X	..	X	..	X	X
3 ⁷ / ₈	40.10	..	..	..	X	..	..	..
4	42.73	X	X	..	X	X	X	X
4 ¹ / ₄	48.23	..	X	..	X	X	X	X
4 ¹ / ₂	54.08	..	X	..	X	X	X	X

STAINLESS STEEL FLATS

TYPES 304/304L, 316/316L



Annealed and Pickled

QQ-S-763 Cond. A ASTM A 276 Cond. A
 ASTM A 479 Cond. A ASME SA-479 Cond. A
 Stock Lengths 12 Ft. Random

STRIP FLATS

Size in Inches	Lbs. per Foot	Est. lbs. 12' Bar	304/ 304L	316/ 316L
1/8 x 1/2	.2125	2.550	X	--
5/8	.2656	3.187	X	--
3/4	.3188	3.826	X	--
1	.4250	5.100	X	--
1 1/4	.5313	6.376	X	--
1 1/2	.6375	7.650	X	--
1 3/4	.7438	8.962	X	--
2	.8500	10.20	X	X
2 1/2	1.063	12.76	X	--
3	1.275	15.30	X	--
4	1.700	20.40	X	--
3/16 x 1/2	.3188	3.826	X	--
5/8	.3984	4.781	X	--
3/4	.4781	5.737	X	--
1	.6375	7.650	X	--
1 1/4	.7969	9.563	X	--
1 1/2	.9563	11.48	X	--
3/16 x 1 3/4	1.116	13.39	X	--
2	1.275	15.30	X	X
2 1/2	1.594	19.13	X	--
3	1.913	22.96	X	--
4	2.550	30.60	X	--
5	3.188	38.26	X	--
6	3.825	45.90	X	--
1/4 x 3/4	.6375	7.650	X	--
1	.8500	10.20	X	X
1 1/4	1.063	12.76	X	--
1 1/2	1.275	15.30	X	X
1 3/4	1.488	17.86	X	--
2	1.700	20.40	X	X
2 1/4	1.913	22.96	X	--
2 1/2	2.125	25.50	X	X
3	2.550	30.60	X	--
3 1/2	2.975	35.70	X	--
4	3.400	40.80	X	--
6	5.100	61.20	X	--

STAINLESS STEEL FLATS **TYPES 304/304L, 316/316L**



Annealed and Pickled

QQ-S-763 Cond. A ASTM A 276 Cond. A
 ASTM A 479 Cond. A ASME SA-479 Cond. A
 Stock Lengths 12 Ft. Random

BAR FLATS

Size in Inches	Lbs. per Foot	Est. Lbs. 12' Bar	304/ 304L	316/ 316L
1/4 x 1/2	.4250	5.100	X	--
5/8	.5313	6.376	X	--
3/8 x 1/2	.6375	7.650	X	--
3/4	.9563	11.48	X	--
1	1.275	15.30	X	--
1 1/4	1.594	19.13	X	--
1 1/2	1.913	22.96	X	--
2	2.550	30.60	X	--
3	3.825	45.90	X	--
4	5.100	61.20	X	--
5	6.375	76.50	X	--
1/2 x 3/4	1.275	15.30	X	--
1	1.700	20.40	X	X
1 1/4	2.125	25.50	X	--
1 1/2	2.550	30.60	X	X
1 3/4	2.975	35.70	X	--
1/2 x 2	3.400	40.80	X	--
2 1/2	4.250	51.00	X	--
3	5.100	61.20	X	--
3 1/2	5.950	71.40	X	--
4	6.800	81.60	X	--
5	8.500	102.0	X	--
6	10.20	122.4	X	--
5/8 x 1	2.125	25.50	X	--
3/4 x 1	2.550	30.60	X	--
1 1/4	3.188	38.26	X	--
1 1/2	3.825	45.90	X	--
2 1/2	6.375	76.50	X	--
1 x 1 1/2	5.100	61.20	X	--
2	6.800	81.60	X	X
3	10.20	122.4	X	--
4	13.60	163.2	X	X
6	20.40	244.8	X	--



STAINLESS STEEL PLATE FLATS TYPE 304/316

**Sheared and Edge Conditioned
Hot Rolled, Annealed and Pickled**

ASTM A 276 Cond. A ASTM A 479 Cond. A ASME SA-479 Cond. A
QQ-S-763 Cond. A ASTM A 240 ASME SA-240

Stock Lengths 12 Ft. Random

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
3/8 x 1	1.275	15.30
1 1/2	1.913	22.96
1 3/4	2.231	26.77
2	2.550	30.60
2 1/2	3.188	38.26
3	3.825	45.90
4	5.100	61.20
5	6.375	76.50
6	7.650	91.80
1/2 x 1	1.770	20.40
1/2 x 1 1/2	2.550	30.60
2	3.400	40.80
2 1/2	4.250	51.00
3	5.100	61.20
3 1/2	5.950	71.40
4	6.800	81.60
4 1/2	7.650	91.80
5	8.500	102.0
6	10.20	122.4

*May be slightly magnetic when cold worked

Harbor Steel



STAINLESS STEEL ANGLES

TYPES 304/304L, 316/316L

Annealed and Pickled

ASTM A 276 Cond. A ASTM A 479 Cond. A ASME SA-479 Cond. A
 QQ-S-763 Cond. A

Stock Lengths 20 Ft. Random

Size in Inches	t	Est. lbs. per Foot	Est. lbs. 20' Bar	304/ 304L	316/ 316L
$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{1}{8}$	0.59	11.80	X	..
1 x 1	$\frac{1}{8}$	0.80	16.00	X	X
	$\frac{3}{16}$	1.16	23.20	X	..
	$\frac{1}{4}$	1.49	29.80	X	..
1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	$\frac{1}{8}$	1.01	20.20	X	..
	$\frac{3}{16}$	1.48	29.60	X	..
	$\frac{1}{4}$	1.92	38.40	X	..
1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	$\frac{1}{8}$	1.23	24.60	X	X
	$\frac{3}{16}$	1.80	36.00	X	X
	$\frac{1}{4}$	2.34	46.80	X	..
2 x 2	$\frac{1}{8}$	1.65	33.00	X	..
	$\frac{3}{16}$	2.44	48.80	X	X
	$\frac{1}{4}$	3.19	63.80	X	X
	$\frac{3}{8}$	4.70	94.00	X	..
2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	$\frac{3}{16}$	3.07	61.40	X	..
	$\frac{1}{4}$	4.10	82.00	X	..
	$\frac{3}{8}$	5.90	118.00	X	..
3 x 1 $\frac{1}{2}$	$\frac{1}{4}$	3.51	70.20	X	..
3 x 2	$\frac{3}{16}$	3.07	61.40	X	..
	$\frac{1}{4}$	4.10	82.00	X	..
3 x 3	$\frac{1}{4}$	4.90	98.00	X	X
	$\frac{3}{8}$	7.20	144.00	X	X
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	$\frac{1}{4}$	5.80	116.00	X	..
4 x 4	$\frac{1}{4}$	6.60	132.00	X	..
	$\frac{3}{8}$	9.80	196.00	X	..
	$\frac{1}{2}$	12.80	256.00	X	..
5 x 3	$\frac{3}{8}$	9.85	197.00	X	..

*May be slightly magnetic when cold worked

STAINLESS STEEL TUBING **ROUND WELDED TYPE 304/304L** **Cold Finished, Annealed and Pickled or Bright Annealed**



1/2" & under ASTM A 269
 Over 1/2" ASTM A 249 ASME SA-249 ASTM A 269
 Stock Lengths 17-24 Ft. Random

O.D.	Gage	Wall	I.D.	Lbs. per Ft.
1/8	x 22	.028	.069	.0293
3/16	x 22	.028	.132	.0481
	20	.035	.118	.0575
1/4	x 22	.028	.194	.0670
	20	.035	.180	.0811
	18	.049	.152	.1062
5/16	x 22	.028	.257	.0859
	20	.035	.243	.1047
	18	.049	.215	.1392
	16§	.065	.183	.1734
3/8	x 22	.028	.319	.1047
	20	.035	.305	.1283
	18	.049	.277	.1722
	16	.065	.245	.2172
7/16	x 20	.035	.368	.1519
	18	.049	.340	.2052
	16	.065	.308	.2610
1/2	x 22	.028	.444	.1425
	20	.035	.430	.1754
	18	.049	.402	.2382
	16	.065	.370	.3048
	13§	.095	.310	.4148
	11††	.120	.260	.4916
5/8	x 22	.028	.569	.1802
	20	.035	.555	.2226
	18	.049	.527	.3043
	16	.065	.495	.3924
	11	.120	.385	.6533
3/4	x 20	.035	.680	.2698
	18	.049	.652	.3703
	16	.065	.620	.4800
	13	.095	.560	.6708
	11	.120	.510	.8150
7/8	x 20	.035	.805	.3169
	18	.049	.777	.4363
	16	.065	.745	.5676
	11	.120	.635	.9767
1	x 20	.035	.930	.3641
	18	.049	.902	.5023
	16	.065	.870	.6552
	14	.083	.834	.8205
	11	.120	.760	1.1384
	3/16	.188	.624	1.6456

STAINLESS STEEL TUBING
ROUND WELDED TYPE 304/304L
Cold Finished, Annealed and Pickled or Bright Annealed



1/2" & under ASTM A 269
 Over 1/2" ASTM A 249 ASME SA-249 ASTM A 269
 Stock Lengths 17-24 Ft. Random

O.D.	Gage	Wall	I.D.	Lbs. per Ft.
1 1/8	x 16	.065	.995	.7427
1 1/4	x 20	.035	1.180	.4584
	18	.049	1.152	.6344
	16	.065	1.120	.8303
	14	.083	1.084	1.0442
	11	.120	1.010	1.4618
1 3/8	x 16	.065	1.245	.9179
1 1/2	x 20	.035	1.430	.5527
	18	.049	1.402	.7664
	16	.065	1.370	1.0055
	14	.083	1.334	1.2678
	11	.120	1.260	1.7852
	3/16	.188	1.124	2.6590
1 5/8	x 16	.065	1.495	1.0931
1 3/4	x 20	.035	1.680	.6471
	18	.049	1.652	.8985
	16	.065	1.620	1.1807
	11	.120	1.510	2.1086
2	x 20	.035	1.930	.7414
	18	.049	1.902	1.0306
	16	.065	1.870	1.3559
	14	.083	1.834	1.7152
	11	.120	1.760	2.4320
2 1/4	x 16	.065	2.120	1.5310
	11	.120	2.010	2.7554
	3/16	.188	1.874	4.1789
2 1/2	x 18	.049	2.402	1.2947
	16	.065	2.370	1.7062
	11	.120	2.260	3.0788
3	x 16	.065	2.870	2.0566
	14	.083	2.834	2.6100
	11	.120	2.760	3.7256
3 1/4	x 11	.120	3.010	4.0490
3 1/2	x 16	.065	3.370	2.4069
	11	.120	3.260	4.3724
4	x 16	.065	3.870	2.7573
	14	.083	3.834	3.5047
	11	.120	3.760	5.0192

STAINLESS STEEL TUBING **SQUARE AND RECTANGULAR WELDED** **TYPE 304**



ASTM A 554

For Ornamental, Structural and Mechanical Applications
 Stock Lengths 20 Ft. Random

Size in Inches	Wall		lbs. per Ft.
	Gage	Dec	
$\frac{1}{2}$ x $\frac{1}{2}$	x 18	.049	.301
$\frac{3}{4}$ x $\frac{3}{4}$	x 16	.065	.6055
	x 14	.083	1.034
1 x 1	x 18	.049	.6337
	x 14	.083	1.034
	x 16	.065	.8265
$1\frac{1}{4}$ x $1\frac{1}{4}$	x 11	.120	1.436
	x 16	.065	1.047
$1\frac{1}{2}$ x $1\frac{1}{2}$	x 16	.065	1.269
	x 14	.083	1.600
	x 11	.120	2.252
	x 7	.180	3.321
2 x 1	x $\frac{3}{16}$	.187	3.600
	x 16	.065	1.269
	x 11	.120	2.255
2 x 2	x 11	.120	3.068
	x 7	.180	4.455
	x $\frac{1}{4}$	.250	6.007
$2\frac{1}{2}$ x $2\frac{1}{2}$	x $\frac{3}{16}$	.187	4.430
	x $\frac{3}{16}$	.187	5.680
3 x 2	x 11	.120	3.884
	x 7	.180	5.679
3 x 3	x 11	.120	4.700
	x 7	.180	6.903
	x $\frac{1}{4}$	.250	8.953
4 x 2	x 11	.120	4.700
	x 7	.180	6.903
	x $\frac{1}{4}$	.250	8.953
4 x 4	x 11	.120	6.260
	x 7	.180	9.270
	x $\frac{1}{4}$	.250	12.683



STAINLESS STEEL PIPE ROUND WELDED TYPE 304/304L

Cold Finished, Annealed and Pickled

ASTM A 312 ASME SA-312

Random Lengths 17-24 Ft.

Schedule 40 & Schedule 80

Nominal Size in Inches	Schedule	Wall	O.D.	Lbs. per Ft.
$\frac{1}{8}$	40	.068	.405	.2470
	80	.095	.405	.3175
$\frac{1}{4}$	40	.088	.540	.4288
	80	.119	.540	.5401
$\frac{3}{8}$	40	.091	.675	.5729
$\frac{1}{2}$	40	.109	.840	.8589
	80	.147	.840	1.098
$\frac{3}{4}$	40	.113	1.050	1.141
	80	.154	1.050	1.487
1	40	.133	1.315	1.695
	80	.179	1.315	2.192
$1\frac{1}{4}$	40	.140	1.660	2.294
$1\frac{1}{2}$	40	.145	1.900	2.743
	80	.200	1.900	3.665
2	40	.154	2.375	3.687
	80	.218	2.375	5.069
$2\frac{1}{2}$	40	.203	2.875	5.847
3	40	.216	3.500	7.647
	80	.300	3.500	10.35
$3\frac{1}{2}$	40	.226	4.000	9.195
	80	.318	4.000	12.62
4	40	.237	4.500	10.89
5	40	.258	5.563	14.75
6	40	.280	6.625	19.15



STAINLESS CHANNELS

Bar Size

ASTM A276 ASTM A479

ASME SA479 QQS 763

Random Lengths 20' to 24'

Size in Inches			Lbs. Per Foot	Est. Lbs. 20'
d	b	t		
2	x1	x 1/4	2.60	52.00
3	x1 3/8	x 3/16	4.19	83.80
3	x1 1/2	x 1/4	4.75	95.00
4	x1 3/4	x 1/4	6.69	133.8
4	x2	x 1/4	6.65	133.0
5	x1 7/8	x 3/8	10.43	208.6
6	x1.9	x.343	8.32	166.4
8	x2.53	x.39	18.7	374.0

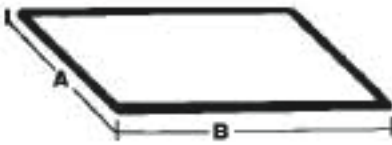
ALUMINUM

Aluminum Flat Sheets

3003-H14, Federal Specification
QQ-A-250/2 (1)
Mill Finish



Thickness	Est. Lbs. Per Sq. Ft.	Size		Est. Lbs. Per Sheet
		A	B	
.025	.356	48	x 96	11.39
		48	x 120	14.24
.032	.456	48	x 120	18.24
		48	x 144	21.89
.040	.570	48	x 96	18.24
		48	x 120	22.80
.050	.713	48	x 144	27.36
		48	x 96	22.82
.063	.898	48	x 120	28.52
		48	x 144	34.22
.080	1.139	48	x 96	28.74
		48	x 120	35.92
.090	1.287	48	x 144	43.10
		60	x 120	44.90
.100	1.426	60	x 144	53.88
		48	x 120	45.56
.125	1.782	48	x 96	41.18
		48	x 120	51.48
.190	2.713	48	x 144	61.78
		48	x 96	45.63
		48	x 120	57.04
		48	x 144	68.45
		48	x 96	57.02
		48	x 120	71.28
		48	x 144	85.54
		60	x 120	89.10
		60	x 144	106.92
		48	x 96	86.82
		48	x 120	108.52
		48	x 144	130.22
		60	x 120	135.65
		60	x 144	162.78



Aluminum Flat Sheets

5052-H32, Federal Specification
QQ-A-250/8 (1) Mill Finish

Thickness	Est. Lbs. Per Sq. Ft.	Size		Est. Lbs. Per Sheet
		A	B	
.040	.559	48	x 120	22.34
.050	.698	48	x 120	27.92
.063	.880	48	x 120	35.20
		60	x 120	52.80
.080	1.117	48	x 120	35.74
.090	1.257	48	x 96	50.28
.125	1.746	48	x 96	83.81
.190	2.654	48	x 144	127.39

- (1) Standard stock sheets meet all requirements of the referenced Federal Specification with the exception of stenciling.

ALUMINUM

Bare Aluminum Flat Sheets

6061-T6, Federal Specification
QQ-A-250/11 (1)
Mill Finish



Thickness	Est. Lbs. Per Sq. Ft.	Size A	B	Est. Lbs. Per Sheet
.032	.452	48	x 144	21.70
.040	.565	48	x 144	27.12
.050	.706	48	x 144	33.89
		60	x 144	42.36
.063	.889	48	x 144	42.67
.090	1.270	48	x 144	60.96
.125	1.764	48	x 96	56.45
		48	x 144	84.67
.190	2.681	48	x 144	128.69

- (1) Standard stock sheets meet all requirements of the referenced Federal Specification, however certain sizes may not be stenciled.

ALUMINUM



Aluminum Diamond Floor Plates

6061-T6

Thickness	Est. Lbs. Per Sq. Ft.	Size	Est. Lbs. Per Plate
.125	1.905	48 x 192	121.92
		60 x 192	152.40
.188	2.820	48 x 192	180.48
		60 x 192	225.60
.250	3.700	48 x 192	236.80
		60 x 192	296.00
.375	5.490	48 x 192	351.36
		60 x 192	439.20
.500	7.270	48 x 192	465.28



ALUMINUM CAST TOOL AND JIG PLATE

Cast, Stress Relieved, and Machined
Vinyl Covered Both Sides and Identified

Both surfaces machined to 25 micro-inches or better.

Thickness tolerance is plus or minus .005 in.

Typical uses: stretch-forming dies, rubber pad process form blocks, assembly jigs, locating devices, drill jigs, pattern and core plates, and inspection fixtures.

	Size in Inches	Lbs. per Sq. Ft.	Est. Lbs. Per Plate
1/4	x48 x 96	3.636	118.2
3/8	x48 x 96	5.454	177.3
1/2	x48 x 96	7.272	236.4
	48 x 144		353.9
5/8	x48 x 144	9.090	442.4
3/4	x48 x 96	10.91	354.6
	48 x 144		531.0
	60 x 144		662.3
1	x48 x 96	14.54	472.6
	48 x 144		707.6
1 1/2	x48 x 144	21.82	1061.0

ALUMINUM

Bare Aluminum Plates

606T-T6 Federal Specification
QQ-A-250/11, Mill Finish



Thickness	Est. Lbs. Per Sq. Ft.	Size	Est. Lbs. Per Plate
3/16	2.685	48 x 96	85.92
		48 x 120	107.40
		48 x 144	128.88
1/4	3.660	48 x 96	117.12
		48 x 144	175.68
3/8	5.440	48 x 96	174.08
		48 x 144	261.12
1/2	7.250	48 x 96	232.00
		48 x 144	348.00
3/4	10.58	48 x 144	514.90
1	14.11	48 x 144	686.70
1 1/4	17.64	48 x 144	858.50
1 1/2	21.17	48 x 144	1030.00
1 3/4	24.70	48 x 144	1202.00
2	28.22	48 x 144	1373.00
2 1/4	31.75	48 x 144	1545.00
2 1/2	35.28	48 x 144	1717.00
3	42.34	48 x 144	2061.00
3 1/2	49.39	48 x 144	2404.00
4	56.45	48 x 144	2747.00

Many other grades and sizes of aluminum plates are readily available, please inquire.



Aluminum Diamond Floor Plates

Bright Finish 3003

Thickness	Est. Lbs. Per Sq. Ft.	Size	Est. Lbs. Per Plate
.060	.912	48 x 96	29.18
.100	1.568	48 x 96	100.35
.125	1.925	48 x 96	92.40
	1.925	48 x 120	77.00
		48 x 192	123.20
.188	2.823	60x 120	180.67

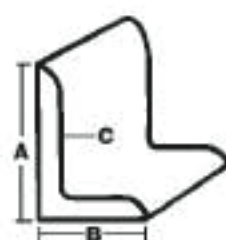
ALUMINUM

Aluminum Angles

6063 Square Edge, 6061-T6 Structural

QQ-A-200/9 QQ-A-200/16

Equal Leg, Stock Lengths 25 Ft.

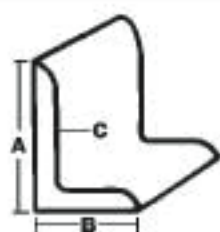


Size in Inches A	B	C	Available in 6063	Est. Lbs. Per Ft.	Est. Lbs. Per 25'
3/4	x 3/4	x 1/8	X	.201	5.03
1	x 1	x 1/8	X	.275	6.88
		x 3/16	X	.400	10.00
		x 1/4	..	.514	12.85
1 1/4	x 1 1/4	x 1/8	X	.343	8.58
		x 3/16	X	.510	12.75
		x 1/4	..	.656	16.40
1 1/2	x 1 1/2	x 1/8	X	.423	10.58
		x 3/16	X	.619	15.48
		x 1/4	..	.809	20.23
		x 3/8	..	1.176	29.40
1 3/4	x 1 3/4	x 1/8	X	.497	12.43
		x 3/16	..	.731	18.28
		x 1/4	..	.956	23.90
		x 5/16	..	1.171	29.28
		x 3/8	..	1.378	34.45
2	x 2	x 1/8	X	.577	14.43
		x 3/16	X	.850	21.25
		x 1/4	X	1.110	27.75
		x 5/16	..	1.364	34.10
		x 3/8	..	1.606	40.15
2 1/2	x 2 1/2	x 1/8	X	.724	18.10
		x 3/16	..	1.070	26.75
		x 1/4	..	1.404	35.10
		x 5/16	..	1.729	43.23
		x 3/8	..	2.047	51.18
3	x 3	x 3/16	X	1.275	31.88
		x 1/4	X	1.684	42.10
		x 5/16	..	2.082	52.05
		x 3/8	..	2.474	61.85
		x 1/2	..	3.227	80.68
3 1/2	x 3 1/2	x 1/4	..	1.989	49.73
		x 5/16	..	2.461	61.53
		x 3/8	..	2.926	73.15
		x 1/2	..	3.826	95.65
4	x 4	x 1/4	..	2.283	57.08
		x 5/16	..	2.829	70.73
		x 3/8	..	3.366	84.15
		x 1/2	..	4.414	110.35
		x 5/8	..	5.425	135.63
5	x 5	x 3/8	..	4.237	105.93
		x 1/2	..	5.578	139.45

ALUMINUM

Aluminum Angles (con't)

Size in Inches			Est. Lbs.	Est. Lbs.
A	B	C	Per Ft.	Per 25'
6	x 6	x 3/8	5.119	127.98
		x 1/2	6.754	168.85
		x 5/8	8.352	208.80
8	x 8	x 1/2	9.141	228.53
		x 3/4	13.478	336.95



Aluminum Angles

6063 Square Edge, 6061-T6 Structural
Federal Specification QQ-A-200/16
Unequal Leg, Stock Lengths 25 Ft.

Size in Inches			Available	Est. Lbs.	Est. Lbs.
A	B	C	in 6063	Per Ft.	Per 25'
1	x 3/4	x 1/8	X	.238	5.95
1 1/4	x 3/4	x 1/8	..	.272	6.80
1 1/4	x 1	x 1/8	..	.314	7.85
1 1/2	x 3/4	x 1/8	X	.314	7.85
1 1/2	x 1	x 3/16	..	.454	11.35
		x 1/8	X	.347	8.68
1 1/2	x 1 1/4	x 1/4	..	.662	16.55
		x 1/8	..	.387	9.68
		x 3/16	..	.566	14.15
1 3/4	x 1 1/4	x 1/4	..	.734	18.35
		x 1/8	..	.421	10.53
		x 3/16	..	.621	15.53
2	x 1	x 1/4	..	.809	20.23
		x 1/8	X	.431	10.78
		x 3/16	X	.731	18.28
2	x 1 1/2	x 1/8	..	.496	12.40
		x 1/4	..	.956	23.90
		x 3/8	..	1.378	34.45
2 1/2	x 1 1/4	x 3/16	..	.797	19.93
2 1/2	x 1 1/2	x 1/8	X	.577	14.43
		x 3/16	..	.850	21.25
2 1/2	x 2	x 1/4	..	1.110	27.75
		x 1/8	..	.652	16.30
		x 3/16	..	.961	24.03
3	x 2	x 1/4	..	1.257	31.43
		x 3/8	..	1.828	45.70
		x 3/16	..	1.071	26.78
3	x 2 1/2	x 1/4	..	1.403	35.08
		x 3/8	..	2.046	51.15
		x 1/4	..	1.537	38.43
		x 3/8	..	2.253	56.33

ALUMINUM

Aluminum Angles (con't)

Size in Inches			Est. Lbs.	Est. Lbs.
A	B	C	Per Ft.	Per 25'
3 1/2	x 2 1/2	x 1/4	1.684	42.10
		x 3/8	2.474	61.85
		x 1/2	3.227	80.68
3 1/2	x 3	x 1/4	1.842	46.05
		x 3/8	2.705	67.63
		x 1/2	3.532	88.30
4	x 2 1/2	x 1/4	1.856	46.40
4	x 3	x 1/4	1.988	49.70
		x 3/8	2.926	73.15
4	x 3 1/2	x 1/2	3.826	95.65
		x 3/8	3.128	78.20
		x 1/2	4.102	102.55
5	x 3	x 3/8	3.349	83.73
		x 1/2	4.396	109.90
5	x 3 1/2	x 3/8	3.582	89.55
		x 1/2	4.704	117.60
6	x 3 1/2	x 5/16	3.385	84.63
		x 3/8	4.037	100.93
6	x 4	x 1/2	5.306	132.65
		x 3/8	4.237	105.93
		x 1/2	5.578	139.45
8	x 6	x 1/2	7.952	198.80
		x 3/4	11.679	291.98

ALUMINUM



Aluminum Structural Channels

6061-T6

Federal Specification QQ-A-200/16

American Standard,

Stock Lengths 25 Ft.

Size in Inches			Est. Lbs.	Est. Lbs.
A	B	C	Per Ft.	Per 25'
3	x 1.410	x .170	1.417	35.43
3	x 1.498	x .258	1.729	43.23
3	x 1.596	x .356	2.074	51.85
4	x 1.580	x .180	1.846	46.15
4	x 1.647	x .247	2.161	54.03
4	x 1.720	x .320	2.504	62.60
5	x 1.750	x .190	2.316	57.90
5	x 1.885	x .325	3.108	77.70
5	x 2.032	x .472	3.975	99.38
6	x 1.920	x .200	2.826	70.65
6	x 1.945	x .225	3.002	75.05
6	x 2.034	x .314	3.631	90.78
6	x 2.157	x .437	4.498	112.45
7	x 2.110	x .230	3.541	88.53
7	x 2.194	x .314	4.232	105.80
8	x 2.290	x .250	4.252	106.30
8	x 2.343	x .303	4.751	118.78
8	x 2.435	x .395	5.617	140.43
8	x 2.527	x .487	6.484	162.10
9	x 2.430	x .230	4.604	115.10
9	x 2.648	x .448	6.911	172.78
10	x 2.600	x .240	5.278	131.95
10	x 2.739	x .379	6.915	172.88
10	x 2.886	x .526	8.641	216.03
12	x 2.960	x .300	7.411	185.28
12	x 3.047	x .387	8.639	215.98
12	x 3.170	x .510	10.374	259.35
15	x 3.400	x .400	11.708	292.70
15	x 3.716	x .716	17.282	432.05

ALUMINUM CHANNELS

ALUMINUM ASSOCIATION

6061-T6 (Extruded)

AMS-QQ-A-200/8 (Except for Marking)

ASTM B 221 ASTM B 308

Stock Lengths 25 Ft.



Depth d In.	Flange b In.	Web t In.	Flange Thickness tf In.	Lbs. per Ft.	Depth d In.	Flange b In.	Web t In.	Flange Thickness tf In.	Lbs. per Ft.
2	1.00	.13	.13	.5774	6	3.25	.21	.35	4.030
2	1.25	.17	.26	1.071	7	3.50	.21	.38	4.715
3	1.50	.13	.20	1.135	8	3.00	.19	.35	4.147
3	1.75	.17	.26	1.597	8	3.75	.25	.41	5.789
4	2.00	.15	.23	1.738	9	3.25	.23	.35	4.982
4	2.25	.19	.29	2.331	10	3.50	.25	.41	6.138
5	2.25	.15	.26	2.212	10	4.25	.31	.50	8.359
5	2.75	.19	.32	3.089	12	4.00	.29	.47	8.274
6	2.50	.17	.29	2.834					

Harbor Steel

ALUMINUM



Aluminum Rectangular Bars

6061-T6, 6063, 2024

Federal Specification QQ-A-200/8

Extruded, Stock Lengths 12 Ft.

Size in Inches			Est. Lbs. Per Ft.	Est. Lbs. Per 12'
1/8	x	1/2	.074	0.89
	x	5/8	.092	1.10
	x	3/4	.110	1.32
	x	1	.147	1.76
	x	1 1/4	.184	2.21
	x	1 1/2	.221	2.65
	x	1 3/4	.257	3.08
	x	2	.294	3.53
	x	2 1/2	.368	4.42
	x	3	.441	5.29
3/16	x	4	.588	7.06
	x	6	.882	10.58
	x	3/4	.165	1.98
	x	1	.221	2.65
	x	1 1/4	.276	3.31
	x	1 1/2	.331	3.97
	x	2	.441	5.29
1/4	x	3	.662	7.94
	x	1/2	.147	1.76
	x	3/4	.221	2.65
	x	1	.294	3.53
	x	1 1/4	.368	4.42
	x	1 1/2	.441	5.29
	x	1 3/4	.515	6.18
	x	2	.588	7.06
	x	2 1/2	.735	8.82
	x	3	.882	10.50
	x	3 1/2	1.029	12.35
	x	4	1.176	14.11
	x	5	1.470	17.64
	x	6	1.764	21.17
5/16	x	3/4	.276	3.31
	x	1	.368	4.42
	x	1 1/4	.459	5.51
	x	1 1/2	.551	6.61
	x	2	.713	8.56
3/8	x	1/2	.221	2.65
	x	3/4	.331	3.97
	x	1	.441	5.29
	x	1 1/4	.551	6.61
	x	1 1/2	.661	7.93
	x	2	.882	10.58
	x	2 1/2	1.103	13.24
	x	3	1.323	15.88

ALUMINUM

Aluminum Rectangular Bars (con't)

Size in Inches			Est. Lbs. Per Ft.	Est. Lbs. Per 12'
3/8	x	4	1.764	21.17
	x	6	2.646	31.75
1/2	x	3/4	.441	5.29
	x	1	.588	7.06
	x	1 1/4	.735	8.82
	x	1 1/2	.882	10.58
	x	1 3/4	1.029	12.35
	x	2	1.176	14.11
	x	2 1/2	1.470	17.64
	x	3	1.764	21.17
	x	4	2.352	28.22
	x	5	2.940	35.28
	x	6	3.528	42.34
5/8	x	3/4	.551	6.61
	x	1	.735	8.82
	x	1 1/4	.919	11.03
	x	1 1/2	1.103	13.24
	x	2	1.470	17.64
	x	3	2.205	26.46
3/4	x	1	.882	10.58
	x	1 1/4	1.103	13.24
	x	1 1/2	1.323	15.88
	x	2	1.764	21.17
	x	2 1/2	2.205	26.46
	x	3	2.646	31.75
	x	3 1/2	3.087	37.04
	x	4	3.528	42.34
	x	5	4.410	52.92
	x	6	5.292	63.50
1	x	1 1/4	1.470	17.64
	x	1 1/2	1.764	21.17
	x	2	2.352	28.22
	x	2 1/2	2.940	35.28
	x	3	3.528	42.34
	x	4	4.704	56.45
	x	6	7.056	84.67
1 1/4	x	1 1/2	2.205	26.46
	x	2	2.940	35.28
	x	2 1/2	3.675	44.10
	x	3	4.410	52.92
	x	4	5.880	70.56
1 1/2	x	2	3.528	42.34
	x	2 1/2	4.410	52.92
	x	3	5.292	63.50
	x	4	7.056	84.67
	x	6	10.584	127.01

ALUMINUM

Aluminum Rectangular Bars (con't)

Size in Inches			Est. Lbs. Per Ft.	Est. Lbs. Per 12'
2	x	2 1/2	5.880	70.56
	x	3	7.056	84.67
	x	4	9.408	112.90
3	x	4	14.112	169.34
	x	5	17.640	211.68



Aluminum Rounds

6061-T6, Federal Specification QQ-A-225/8,
Cold Finished
Federal Specification QQ-A-200/8
Extruded, Stock Lengths 12 Ft.

Size in Inches	Est. Lbs. Per Ft.	Est. Lbs. Per 12'
1/8	.014	.17
3/16	.033	.39
1/4	.058	.70
5/16	.090	1.08
3/8	.130	1.56
7/16	.177	2.12
1/2	.231	2.77
9/16	.292	3.50
5/8	.361	4.33
3/4	.520	6.24
7/8	.707	8.48
1	.924	11.09
1 1/8	1.169	14.03
1 1/4	1.443	17.32
1 5/16	1.591	19.09
1 3/8	1.746	20.95
1 7/16	1.909	22.91
1 1/2	2.078	24.94
1 5/8	2.439	29.27
1 3/4	2.829	33.95
1 13/16	3.034	36.41
1 7/8	3.247	38.96
2	3.695	44.34
2 1/8	4.171	50.05
2 1/4	4.676	56.11
2 1/2	5.773	69.28
2 5/8	6.364	76.37
2 3/4	6.985	83.82
3	8.313	99.76
3 1/4	9.776	117.31
3 1/2	11.315	135.78

ALUMINUM

Aluminum Rounds (con't)

Size in Inches	Est. Lbs. Per Ft.	Est. Lbs. Per 12'
3 5/8	12.152	145.82
3 3/4	12.989	155.87
4	14.778	177.34
4 1/4	16.683	200.20
4 1/2	18.704	244.45
5	23.070	276.84
5 1/2	27.940	335.28
6	33.251	399.01
6 1/2	39.023	468.28
7	45.258	543.10
7 1/2	51.954	623.45
8	59.112	709.34
9	74.814	897.77
10	92.363	1,108.36

ALUMINUM SQUARES 6061-T6511 (Extruded)



AMS-QQ-A-200/8 ASTM B 221
Identified Stock Lengths 12 Ft.

Size in Inches	Lbs. per Ft.	Est. Lbs. 12' Bar
1/2	.2940	3.528
5/8	.4600	5.508
3/4	.6615	7.938
7/8	.9010	10.81
1	1.176	14.11
1 1/4	1.838	22.06
1 1/2	2.646	31.75
1 5/8	3.108	37.30
1 3/4	3.600	43.20
2	4.704	56.45

Aluminum Square Tubing

6063-T52 Extruded
Stock lengths: 21' 1" and 24'

Size in Inches	Average Wall in Inches	Lbs. per Foot
3/4	.125	0.368
1	.062	0.280
1	.125	0.516
1-1/4	.125	0.676
1-1/2	.063	0.430
1-1/2	.125	0.810
2	.094	0.851
2	.125	1.103
3	.125	1.691
3	.188	2.540
4	.188	3.440

ALUMINUM

Aluminum Rectangular Tubing

6063-T52 Extruded
Stock lengths: 21' 1" and 24'

Size in Inches		Average Wall in Inches	Lbs. per Foot
2	x 1	.125	0.809
2	x 1-1/2	.125	0.956
3	x 1-1/2	.125	1.237
4	x 2	.125	1.724

Aluminum Pipe

6063-T52 & 6061-T6
Stock lengths: 20

Nom. Pipe size in Inches	O.D. in Inches	I.D. in Inches	Avg. Wall Thickness	Lbs. per Foot	6063-T52	6061-T6
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SCHEDULE 40

3/4	1.050	.824	.113	0.391	X	
1	1.315	1.049	.133	1.315	X	X
1-1/4	1.660	1.380	.140	0.786	X	X
1-1/2	1.900	1.610	.145	0.940	X	X
2	2.375	2.067	.154	1.264	X	X
2-1/2	2.875	2.469	.203	2.004	X	
6	6.625	6.065	.280	6.654		X

SCHEDULE 80

1-1/2	1.900	1.500	.200	1.256	X	
2-1/2	2.875	2.323	.276	2.650		X

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