

## Index

WF Beams	1
I Beams	11
Junior Beams	12
Stringer Channels	12
Bar Channels	12
Standard Channels	13
MC Ship & Car Channels	14
Structural Angles	15
Bar Angles	17
Rails	18
Square Bars	19
Reinforcing Bars	19
Round Bars	20
Strips	22
Flat Bars	23
Universal Mill Plates	26
Plates	27
Floor Plates	28
Sheets	29
Square Tubing	30
Rectangular Tubing	32
Round Pipe	34
Round Tubing	37
Decimal Equivalents	52
Hardness Conversions	53
Gages-HR, CR & Galv.	55
Gages Aluminum	57
Gages Stainless Steel	58

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
W44 x	335	44	15-15/16	1-49/64	1-1/32
	290	43-5/8	15-53/64	1-37/64	55/64
	262	43-5/16	15-3/4	1-27/64	25/32
	230	42-29/32	15-3/4	1-7/32	45/64
W40 x	397	40-61/64	16-7/64	2-13/64	1-7/32
	372	40-41/64	16-1/16	2-3/64	1-5/32
	362	40-35/64	16-1/64	2-1/64	1-7/64
	324	40-5/32	15-29/32	1-13/16	1
	297	39-27/32	15-53/64	1-21/32	15/16
	277	39-45/34	15-53/64	1-37-64	53/64
	249	39-25/64	15-3/4	1-27/64	3/4
	215	40	15-3/4	1-7/32	21/32
	199	38-43/64	15-3/4	1-1/16	21/32
W40 x	327	40-51/64	12-1/8	2-1/8	1-3/16
	294	40-25/64	12-1/8	2-1/8	1-3/16
	264	40	11-15/16	1-47/64	31/32
	235	39-45/64	11-57/64	1-37/64	53/64
	211	39-3/8	11-13/16	1-27/64	3/4
W40 x	183	39	11-13/16	1-7/32	21/32
	167	38-19/32	11-13/16	1-1/16	21/32
	149	38-13/64	11-13/16	53/64	5/8
W36 x	848	42-29/64	18-1/8	4-17/32	2-33/64
	798	41-31/32	18	4-19/64	2-3/8
	650	40-31/64	17-37/64	3-35/64	1-31/32
	527	39-7/32	17-7/32	2-29/32	1-39/64
	439	38-7/32	16-31/32	2-7/16	1-23/64
	393	37-51/64	16-53/64	2-13/64	1-7/32

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
W36 x	359	37-13/32	16-47/64	2-1/64	1-1/8
	328	37-3/32	16-5/8	1-55/64	1-1/64
	300	36-3/4	16-5/8	1-11/16	15/16
	280	36-1/2	16-5/8	1-9/16	7/8
	260	36-1/4	16-1/2	1-7/16	13/16
	245	36-1/8	16-1/2	1-3/8	13/16
	230	35-7/8	16-1/2	1-1/4	3/4
	256	37-7/16	12-7/32	1-47/64	31/32
	232	37-1/8	12-1/8	1-37/64	7/8
	194	36-1/2	12-1/8	1-1/4	3/4
	182	36-3/8	12-1/8	1-3/16	3/4
	170	36-1/8	12	1-1/8	11/16
	160	36	12	1	5/8
	150	35-7/8	12	15/16	5/8
	135	35-1/2	12	13/16	5/8
W33 x	354	35-35/64	16	2-3/32	1-5/32
	318	35-5/32	15-61/64	1-57/64	1-3/64
	291	34-27/32	15-29/32	1-47/64	31/32
	263	34-17/32	15-51/64	1-37/64	7/8
	241	34-1/8	15-7/8	1-3/8	13/16
	221	33-7/8	15-3/4	1-1/4	3/4
	201	33-5/8	15-3/4	1-1/8	11/16
	169	33-53/64	11-1/2	1-7/32	43/64
	152	33-1/2	11-5/8	1-1/16	5/8
	141	33-1/4	11-1/2	15/16	5/8
	130	33-1/8	11-1/2	7/8	9/16
	118	32-7/8	11-1/2	3/4	9/16

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
W30 x	581	35-25/64	16-13/64	3-35/64	1-31/32
	526	34-49/64	16-1/64	3-15/64	1-51/64
	477	34-7/32	15-55/64	2-61/64	1-5/8
	433	33-21/32	15-23/32	2-11/16	1-1/2
	391	33-3/16	15-19/32	2-7/16	1-23/64
	357	32-51/64	15-15/32	2-15/64	1-15/64
	326	32-13/32	15-3/8	2-3/64	1-9/64
	292	32	15-1/4	1-55/64	1-1/64
	261	31-39/64	15-5/32	1-21/32	15/16
	235	31-19/64	15-3/64	1-1/2	53/64
	211	31	15-1/8	1-5/16	3/4
	191	30-5/8	15	1-3/16	11/16
	173	30-1/2	15	1-1/16	5/8
	148	30-5/8	10-31/64	1-11/64	21/32
	132	30-1/4	10-1/2	1	5/8
	124	30-1/8	10-1/2	15/16	9/16
	116	30	10-1/2	7/8	9/16
	108	29-7/8	10-1/2	3/4	9/16
	99	29-5/8	10-1/2	11/16	1/2
	90	29-17/32	10-13/32	39/64	15/32
W27 x	539	32-33/64	15-1/4	3-35/64	1-31/32
	448	31-27/64	14-15/16	3	1-21/32
	368	30	14-35/64	2-9/32	1-1/4
	336	40-61/64	14-5/8	2-13/64	1-7/32
	307	29-39/64	14-7/16	2-3/32	1-5/32
	281	29-19/64	14-7/64	2-23/64	1-1/16
	258	29	14-17/64	1-49/64	63/64
	235	28-43/64	14-3/16	1-39/64	29/32
	217	28-7/16	14-7/64	1-1/2	53/64
	194	28-7/64	14-1/32	1-11/32	3/4
	178	27-3/4	14-1/8	1-3/16	3/4

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)	
W27 x	161	27-5/8	14	1-1/16	11/16	
	146	27-3/8	14	1	5/8	
	129	27-5/8	10	1-7/64	39/64	
	114	27-1/4	10-1/8	15/16	9/16	
	102	27-1/8	10	13/16	1/2	
	94	26-7/8	10	3/4	1/2	
	84	26-3/4	10	5/8	7/16	
	492	29-21/64	14-7/64	3-35/64	1-31/32	
	408	28-35/64	13-51/64	3	1-21/32	
	335	27-35/64	13-33/64	2-31/64	1-3/8	
	279	26-47/64	13-19/64	2-3/32	1-5/32	
	250	26-11/32	13-3/16	1-57/64	1-3/64	
	229	26-1/64	13-7/64	1-47/64	31/32	
	207	25-23/32	13	1-37/64	7/8	
	192	25-15/32	12-61/64	1-15/32	13/16	
	176	25-15/64	12-3/16	1-11/32	3/4	
	162	25	13	1-1/4	11/16	
	146	24-3/4	12-7/8	1-1/16	5/8	
	131	24-1/2	12-7/8	15/16	5/8	
	117	24-1/4	12-3/4	7/8	9/16	
	104	24	12-3/4	3/4	1/2	
	103	24-17/32	9	63/64	35/64	
	94	24-1/4	9-1/8	7/8	1/2	
	84	24-1/8	9	3/4	1/2	
	178	27-3/4	14-1/8	1-3/16	3/4	
	W24 x	76	23-7/8	9	11/16	7/16
		68	23-3/4	9	9/16	7/16
62		23-3/4	7	9/16	7/16	
55		23-5/8	7	1/2	3/8	

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
<b>W21 x</b>	201	23-1/32	12-37/64	1-5/8	29/32
	182	22-23/32	12-1/2	1-31/64	53/64
	166	22-31/64	12-27/64	1-23/64	3/4
	147	22	12-1/2	1-1/8	3/4
	132	21-7/8	12-1/2	1-1/16	5/8
	122	21-5/8	12-3/8	15/16	5/8
	111	21-1/2	12-3/8	7/8	9/16
	101	21-3/8	12-1/4	13/16	1/2
	93	21-5/8	8-3/8	15/16	9/16
	83	21-3/8	8-3/8	13/16	1/2
	73	21-1/4	8-1/4	3/4	7/16
	68	21-1/8	8-1/4	11/16	7/16
	62	21	8-1/4	5/8	3/8
	57	21	6-1/2	5/8	3/8
	50	20-7/8	6-1/2	9/16	3/8
	44	20-5/8	6-1/2	7/16	3/8
<b>W18 x</b>	311	22-21/64	12	2-47/64	1-33/64
	283	21-55/64	11-57/64	2-1/2	1-13/32
	258	21-15/32	11-49/64	2-19/64	1-9/32
	234	21-1/16	11-21/32	2-7/64	1-5/32
	211	20-43/64	11-35/64	1-29/32	1-1/6
	192	20-23/64	11-29/64	1-3/4	31/32
	175	20-3/64	11-3/8	1-19/32	57/64
	158	19-23/32	11-19/64	1-7/16	13/16
	143	19-1/2	11-7/32	1-21/64	47/64
	130	19-1/4	11-5/32	1-13/64	43/64
	119	19	11-1/4	1-1/16	5/8
	106	18-3/4	11-1/4	15/16	9/16
	97	18-5/8	11-1/8	7/8	9/16
	86	18-3/8	11-1/8	3/4	1/2
	76	18-1/4	11	11/16	7/16

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
W18 x	71	18-1/2	7-5/8	13/16	1/2
	65	18-3/8	7-5/8	3/4	7/16
	60	18-1/4	7-1/2	11/16	7/16
	55	18-1/8	7-1/2	5/8	3/8
	50	18	7-1/2	9/16	3/8
	46	18	6	5/8	3/8
	40	17-7/8	6	1/2	5/16
	35	17-3/4	6	7/16	5/16
W16 x	100	17	10-3/8	1	9/16
	89	16-3/4	10-3/8	7/8	1/2
	77	16-1/2	10-1/4	3/4	7/16
	67	16-3/8	10-1/4	11/16	3/8
	57	16-5/8	7-1/8	11/16	7/16
	50	16-1/4	7-1/8	5/8	3/8
	45	16-1/8	7	9/16	3/8
	40	16	7	1/2	5/16
W16 x	31	15-7/8	5-1/2	7/16	1/4
	26	15-3/4	5-1/2	3/8	1/4
W14 x	808	22-27/32	18-9/16	5-1/8	3-47/64
	730	22-3/8	17-7/8	4-15/16	3-1/16
	665	21-5/8	17-5/8	4-1/2	2-13/16
	605	20-7/8	17-3/8	4-3/16	2-5/8
	550	20-1/4	17-1/4	3-13/16	2-3/8
	500	19-5/8	17	3-1/2	2-3/16
	455	19	16-7/8	3-3/16	2

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
W14 x	426	18-5/8	16-3/4	3-1/16	1-7/8
	398	18-1/4	16-5/8	2-7/8	1-3/4
	370	17-7/8	16-1/2	2-11/16	1-5/8
	342	17-1/2	16-3/8	2-1/2	1-9/16
	311	17-1/8	16-1/4	2-1/4	1-7/16
	283	16-3/4	16-1/8	2-1/16	1-5/16
	257	16-3/8	16	1-7/8	1-3/16
	233	16	15-7/8	1-3/4	1-1/16
	211	15-3/4	15-3/4	1-9/16	1
	193	15-1/2	15-3/4	1-7/16	7/8
	176	15-1/4	15-5/8	1-5/16	13/16
	159	15	15-5/8	1-3/16	3/4
	145	14-3/4	15-1/2	1-1/16	11/16
	132	14-5/8	14-3/4	1	5/8
	120	14-1/2	14-5/8	15/16	9/16
	109	14-3/8	14-5/8	7/8	1/2
	99	14-1/8	14-5/8	3/4	1/2
	90	14	14-1/2	11/16	7/16
	82	14-1/4	10-1/8	7/8	1/2
	74	14-1/8	10-1/8	13/16	7/16
	68	14	10	3/4	7/16
	61	13-7/8	10	5/8	3/8
	53	13-7/8	8	11/16	3/8
	48	13-3/4	8	5/8	5/16
	43	13-5/8	8	1/2	5/16
	38	14-1/8	6-3/4	1/2	5/16
	34	14	6-3/4	7/16	5/16
	30	13-7/8	6-3/4	3/8	1/4
	26	13-7/8	5	5/16	1/4
	22	13-3/4	5	5/16	1/4

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
W12 x	336	16-53/64	13-25/64	2-61/64	1-49/64
	305	16-21/64	13-15/64	2-45/64	1-5/8
	279	15-55/64	13-9/64	2-15/32	1-17/32
	252	15-16/32	13	2-1/4	1-25/64
	230	15-3/64	12-57/64	2-5/64	1-9/32
	210	14-23/32	12-51/64	1-29/32	1-3/16
	190	14-3/8	12-5/8	1-3/4	1-1/16
	170	14	12-5/8	1-9/16	15/16
	152	13-3/4	12-1/2	1-3/8	7/8
	136	13-3/8	12-3/8	1-1/4	13/16
	120	13-1/8	12-3/8	1-1/8	11/16
	106	12-7/8	12-1/4	1	5/8
	96	12-3/4	12-1/8	7/8	9/16
	87	12-1/2	12-1/8	13/16	1/2
	79	12-3/8	12-1/8	3/4	1/2
	72	12-1/4	12	11/16	7/16
	65	12-1/8	12	5/8	3/8
W12 x	58	12-1/4	10	5/8	3/8
	53	12	10	9/16	3/8
	50	12-1/4	8-1/8	5/8	3/8
	45	12	8	9/16	5/16
	40	12	8	1/2	5/16
W12 x	35	12-1/2	6-1/2	1/2	5/16
	30	12-3/8	6-1/2	7/16	1/4
	26	12-1/4	6-1/2	3/8	1/4
	22	12-1/4	4	7/16	1/4
	19	12-1/8	4	3/8	1/4
	16	12	4	1/4	1/4
	14	11-7/8	4	1/4	3/16

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
<b>W10 x</b>	112	11-3/8	10-3/8	1-1/4	3/4
	100	11-1/8	10-3/8	1-1/8	11/16
	88	10-7/8	10-1/4	1	5/8
	77	10-5/8	10-1/4	7/8	1/2
	68	10-3/8	10-1/8	3/4	1/2
	60	10-1/4	10-1/8	11/16	7/16
	54	10-1/8	10	5/8	3/8
	49	10	10	9/16	5/16
	45	10-1/8	8	5/8	3/8
	39	9-7/8	8	1/2	5/16
	33	9-3/4	8	7/16	5/16
	30	10-1/2	5-3/4	1/2	5/16
	26	10-3/8	5-3/4	7/16	1/4
	22	10-1/8	5-3/4	3/8	1/4
	19	10-1/4	4	3/8	1/4
	17	10-1/8	4	5/16	1/4
	15	10	4	1/4	1/4
12	9-7/8	4	3/16	3/16	
<b>W8 x</b>	67	9	8-1/4	15/16	9/16
	58	8-3/4	8-1/4	13/16	1/2
	48	8-1/2	8-1/8	11/16	3/8
	40	8-1/4	8-1/8	9/16	3/8
	35	8-1/8	8	1/2	5/16
<b>W8 x</b>	21	8-1/4	5-1/4	3/8	¼
	18	8-1/8	5-1/4	5/16	1/4
<b>W8 x</b>	15	8-1/8	4	5/16	1/4
	13	8	4	1/4	1/4
	10	7-7/8	4	3/16	3/16

## WF Beams

Section Number	Weight per Foot (lb)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
W6 x	25	6-3/8	6-1/8	7/16	5/16
	20	6-1/4	6	3/8	1/4
	15	6	6	1/4	1/4
W6 x	16	6-1/4	4	3/8	1/4
	12	6	4	1/4	1/4
	9	5-7/8	4	3/16	3/16
W5 x	19	5-1/8	5	7/16	1/4
	16	5	5	3/8	1/4
W4 x	13	4-1/8	4	3/8	1/4

## I-Beams

Section Number	Weight per Foot (lb.)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
S24 X	121.0	24-1/4	8	1-1/16	13/16
	106.0	24-1/2	7-7/8	1-1/16	5/8
S24 X	100.0	24	7-1/4	7/8	3/4
	90.0	24	7-1/8	7/8	5/8
	80.0	24	7	7/8	1/2
S20 X	96.0	20-1/4	7-1/4	15/16	13/16
	86.0	20-1/4	7	15/16	11/16
S20 X	75.0	20	6-3/8	13/16	5/8
	66.0	20	6-1/4	13/16	1/2
S18 X	70.0	18	6-1/4	11/16	11/16
	54.7	18	6	11/16	7/16
S15 X	50.0	15	5-5/8	5/8	9/16
	42.9	15	5-1/2	5/8	7/16
S12 X	50.0	12	5-1/2	11/16	11/16
	40.8	12	5-1/4	11/16	7/16
	35.0	12	5-1/8	9/16	7/16
	31.8	12	5	9/16	3/8
S10 X	35.0	10	5	1/2	5/8
	25.4	10	4-5/8	1/2	5/16
S8 X	23.0	8	4-1/8	7/16	7/16
	18.4	8	4	7/16	1/4
S7 X	15.3	7	3-5/8	3/8	1/4
S6 x	17.25	3-5/8	3-5/8	3/8	7/16
	12.50	3-5/8	3-5/8	3/8	1/4
S5 x	10.0	3	3	5/16	3/16
S4 x	9.5	4	2-3/4	5/16	5/16
	7.7	4	2-5/8	5/16	3/16
S3 x	7.5	2-1/2	2-1/2	1/4	3/8
	5.7	2-3/8	2-3/8	1/4	3/16

### Junior Beams

Size in Inches	Weight Per Foot	Flange Width	Web Thickness
6	4.4	1.84	.114
8	6.5	2.28	.135
10	9.0	2.69	.155
12	11.8	3.06	.175

### Stringer Channels

Size in Inches	Weight per Foot	Flange Width	Web Thickness
10	6.5	1.125	.150
	8.4	1.500	.170
12	10.6	1.5	.190

### Bar Channels

Size in inches	weight per foot
3/4 x 3/8 x 1/8	.56
1 x 3/8 x 1/8	.68
1 x 1/2 x 1/8	.83
1-1/4 x 1/2 x 1/8	1.01
1-1/2 x 1/2 x 1/8	1.12
1-1/2 x 9/16 x 3/16	1.44
2 x 1/2 x 1/8	1.43
2 x 9/16 x 3/16	1.76
2 x 5/8 x 1/4	2.18
2 x 1 x 1/8	1.59
2 x 1 x 3/16	2.32
2-1/2 x 5/8 x 3/16	2.27

## Standard Channels

Section Number	Weight per Foot (lb.)	Depth (in.)	Flange Width (in.)	Flange Thickness (in.)	Web Thickness (in.)
C15 x	50.0	15	3-3/4	5/8	11/16
	40.0	15	3-1/2	5/8	1/2
	33.9	15	3-3/8	5/8	3/8
C12 x	30.0	12	3-1/8	1/2	1/2
	25.0	12	3	1/2	3/8
	20.7	12	3	1/2	5/16
C10 x	30.0	10	3	7/16	11/16
	25.0	10	2-7/8	7/16	1/2
	20.0	10	2-3/4	7/16	3/8
	15.3	10	2-5/8	7/16	1/4
C9 x	20.0	9	2-5/8	9/16	7/16
	15.0	9	2-1/2	7/16	5/16
	13.4	9	2-3/8	7/16	1/4
C8 x	18.75	8	2-1/2	3/8	1/2
	13.75	8	2-3/8	3/8	5/16
	11.50	8	2-1/4	3/8	1/4
	8.5	8	1-7/8	3/8	3/16
C7 x	12.25	7	2-1/4	3/8	5/16
	9.80	7	2-1/8	3/8	3/16
C6 x	13.0	6	2-1/8	5/16	7/16
	10.5	6	2	5/16	5/16
	8.2	6	1-7/8	5/16	3/16
C5 x	9.0	5	1-7/8	5/16	5/16
	6.7	5	1-3/4	5/16	3/16
C4 x	7.25	4	1-3/4	5/16	5/16
	5.40	4	1-5/8	5/16	3/16
C3 x	6.0	3	1-9/16	1/4	5/16
	5.0	3	1-1/2	1/4	1/4
	4.1	3	1-3/8	1/4	3/16

## MC Ship & Car Channels

Section Number	Weight Per Foot Lb.	Depth (in.)	Flange Width In.	Flange Thickness In.	Web Thickness In.
MC18 x	58.0	18	4-1/4	5/8	11/16
	51.9	18	4-1/8	5/8	5/8
	45.8	18	4	5/8	1/2
	42.7	18	4	5/8	7/16
MC13 x	50.0	13	4-3/8	5/8	13/16
	40.0	13	4-1/8	5/8	9/16
	35.0	13	4-1/8	5/8	7/16
	31.8	13	4	5/8	3/8
MC12 x	50.0	12	4-1/8	11/16	13/16
	45.0	12	4	11/16	11/16
	40.0	12	3-7/8	11/16	9/16
	35.0	12	3-3/4	11/16	7/16
	31.0	12	3-5/8	11/16	3/8
MC10 x	41.1	10	4-3/8	9/16	13/16
	33.6	10	4-1/8	9/16	9/16
	28.5	10	4	9/16	7/16
MC10 x	25.0	10	3-3/8	9/16	3/8
	22.0	10	3-3/8	9/16	5/16
MC9 x	25.4	9	3-1/2	9/16	7/16
	23.9	9	3-1/2	9/16	3/8
MC8 x	22.8	8	3-1/2	1/2	7/16
	21.4	8	3-1/2	1/2	3/8
	20.0	8	3	1/2	3/8
	18.7	8	3	1/2	3/8
MC7 x	22.7	7	3-5/8	1/2	1/2
	19.1	7	3-1/2	1/2	3/8
	17.6	7	3	1/2	3/8
MC6 x	18.0	6	3-1/2	1/2	3/8
	15.3	6	3-1/2	3/8	5/16
MC 6 x	16.3	6	3	1/2	3/8
	15.1	6	3	1/2	5/16
	12.0	6	2-1/2	3/8	5/16
MC4 x	13.8	4	2-1/2	1/2	1/2
MC3 x	7.1	3	2	3/8	5/16

## Structural Angles

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
<b>3 x 2 x</b>		<b>4 x 3-1/2 x</b>	
3/16	3.1	1/4	6.2
1/4	4.1	5/16	7.7
5/16	5.0	3/8	9.1
3/8	5.9	7/16	10.6
1/2	7.7	1/2	11.9
		5/8	14.7
<b>3 x 2-1/2 x</b>		<b>4 x 4 x</b>	
1/4	4.5	1/4	6.6
5/16	5.6	5/16	8.2
3/8	6.6	3/8	9.8
1/2	8.5	1/2	12.8
		5/8	15.7
<b>3 x 3 x</b>		3/4	18.5
3/16	3.7	<b>5 x 3 x</b>	
1/4	4.9	1/4	6.6
5/16	6.1	5/16	8.2
3/8	7.2	3/8	9.8
1/2	9.4	1/2	12.8
<b>3-1/2 x 2-1/2 x</b>		<b>L 5 x 3-1/2 x</b>	
1/4	4.9	1/4	7.0
5/16	6.1	5/16	8.7
3/8	7.2	3/8	10.4
1/2	9.4	7/16	12.0
		1/2	13.6
<b>3-1/2 x 3 x</b>		5/8	16.8
1/4	5.4	3/4	19.8
5/16	6.6	<b>L 5 x 5 x</b>	
3/8	7.9	5/16	10.3
1/2	10.2	3/8	12.3
<b>3-1/2 x 3-1/2 x</b>		1/2	16.2
1/4	5.8	5/8	20.0
5/16	7.2	3/4	23.6
3/8	8.5	<b>L 6 x 3-1/2 x</b>	
1/2	11.1	5/16	9.8
<b>4 x 3 x</b>		3/8	11.7
1/4	5.8	1/2	15.3
5/16	7.2		
3/8	8.5		
1/2	11.1		
5/8	13.6		

## Structural Angles (cont.)

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
<b>L 6 x 4 x</b>		<b>L 8 x 4 x</b>	
5/16	10.3	1/2	19.6
3/8	12.3	5/8	24.2
7/16	14.3	3/4	28.7
1/2	16.2	<b>L 8 x 6 x</b>	
5/8	20.0	1/2	23.0
3/4	23.6	3/4	33.8
7/8	27.2	1	44.2
<b>L 6 x 6 x</b>		<b>L 8 x 8 x</b>	
5/16	12.4	1/2	26.4
3/8	14.9	5/8	32.7
1/2	19.6	3/4	38.9
5/8	24.2	1	51.0
3/4	28.7	1-1/8	56.9
1	37.4	<b>L 9 x 4 x</b>	
<b>L 7 x 4 x</b>		1/2	21.3
3/8	13.6		
1/2	17.9		
5/8	22.1		
3/4	26.2		

## Bar Size Angles

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
1/2 x 1/2 x 1/8	.38	1-3/4 x 1-3/4 x 3/16	2.12
5/8 x 5/8 x 1/8	.48	1-3/4 x 1-3/4 x 1/4	2.77
3/4 x 3/4 x 1/8	.59	2 x 1-1/4 x 3/16	1.96
7/8 x 7/8 x 1/8	.70	2 x 1-1/4 x 1/4	2.55
1 x 5/8 x 1/8	.64	2 x 1-1/2 x 1/8	1.44
1 x 3/4 x 1/8	.70	2 x 1-1/2 x 3/16	2.12
		2 x 1-1/2 x 1/4	2.77
1 x 1 x 1/8	.80		
1 x 1 x 3/16	1.16	2 x 2 x 1/8	1.65
1 x 1 x 1/4	1.49	2 x 2 x 3/16	2.44
1-1/8 x 1-1/8 x 1/8	.90	2 x 2 x 1/4	3.19
1-1/4 x 1-1/4 x 1/8	1.01	2 x 2 x 5/16	3.92
1-1/4 x 1-1/4 x 3/16	1.48	2 x 2 x 3/8	4.70
1-1/4 x 1-1/4 x 1/4	1.92		
1-3/8 x 7/8 x 1/8	.91	2-1/2 x 1-1/2 x 3/16	2.44
1-3/8 x 7/8 x 3/16	1.32	2-1/2 x 1-1/2 x 1/4	3.19
1-1/2 x 1-1/4 x 3/16	1.64	2-1/2 x 1-1/2 x 5/16	3.92
1-1/2 x 1-1/2 x 1/8	1.23	2-1/2 x 2 x 3/16	2.75
1-1/2 x 1-1/2 x 3/16	1.80	2-1/2 x 2 x 1/4	3.62
1-1/2 x 1-1/2 x 1/4	2.34	2-1/2 x 2 x 5/16	4.50
1-1/2 x 1-1/2 x 3/8	3.35	2-1/2 x 2 x 3/8	5.30
1-3/4 x 1-1/4 x 1/8	1.23	2-1/2 x 2-1/2 x 3/16	3.07
1-3/4 x 1-1/4 x 3/16	1.80	2-1/2 x 2-1/2 x 1/4	4.10
1-3/4 x 1-1/4 x 1/4	2.34	2-1/2 x 2-1/2 x 5/16	5.00
1-3/4 x 1-3/4 x 1/8	1.44	2-1/2 x 2-1/2 x 3/8	5.90
		2-1/2 x 2-1/2 x 1/2	7.70

## Rail

Weight per yard	Name	Number	A Height	B Height	C Head
25	A.S.C.E.	2540	2-3/4"	2-3/4"	1-1/2"
30	A.S.C.E.	3040	3-1/8"	3-1/8"	1-11/16"
40	A.S.C.E.	4040	3-1/2"	3-1/2"	1-7/8"
60	A.S.C.E.	6040	4-1/4"	4-1/4"	2-3/8"
85	A.S.C.E.	8540	5-3/16"	5-3/16"	2-9/16"

## Square Bars

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
3/8	.478	2	13.60
7/16	.651	2-1/4	17.21
1/2	.850	2-1/2	21.25
9/16	1.08	2-3/4	25.71
5/8	1.33	3	30.60
3/4	1.91	3-1/4	35.91
7/8	2.60	3-1/2	41.65
		3-3/4	47.81
1	3.40		
1-1/8	4.30	4	54.40
1-1/4	5.31	4-1/2	68.85
1-3/8	6.43	5	85.00
1-1/2	7.65	6	122.40
1-3/4	10.41		
1-7/8	11.95		

## Reinforcing Bars

Size in Inches	Size Number	Weight per Foot
3/8	3	.376
1/2	4	.668
5/8	5	1.043
3/4	6	1.502
7/8	7	2.044
1	8	2.670
1-1/4	10	4.172

## Round Bars

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
1/8	.0417	4	42.7260
3/16	.0939	4-1/8	45.4380
1/4	.1669	4-1/4	48.2330
5/16	.2608	4-3/8	51.1120
3/8	.3755	4-1/2	54.0750
7/16	.5111	4-5/8	57.1210
1/2	.6676	4-3/4	60.2500
9/16	.8449	5	66.7590
5/8	1.0431	5-1/4	73.6020
11/16	1.2622	5-1/2	80.778
3/4	1.5021	5-3/4	88.29
3/16	1.7629	6	96.1300
7/8	2.0445	6-1/4	104.3100
1	2.6704	6-1/2	112.8200
1-1/8	3.3797	6-3/4	121.6700
1-1/4	4.1724	7	130.8500
1-3/8	5.0486	7-1/4	140.3600
1-1/2	6.0083	7-1/2	150.2100
1-5/8	7.0514	7-3/4	160.3900
1-3/4	8.1780	8	170.9000
1-7/8	9.3880	8.25	181.7269
2	10.6814	8.5	192.9075
2-1/8	12.0583	8.75	204.4219
2-1/4	13.5187	9	216.3000
2-3/8	15.0625	9.25	228.4519
2-1/2	16.6898	9.5	240.9675
2-5/8	18.4000	9.75	253.8169
2-3/4	20.1946	10	264.0000
2-7/8	22.0720	10.5	294.3675
3	24.0330	11	323.0700
3-1/8	26.0780	11.5	353.1075
3-1/4	28.2060		
3-1/2	30.4170		
3-5/8	32.7120		
3-3/4	35.0900		
3-7/8	40.1000		

## Round Bars (cont.)

Size in Inches	Weight per Foot
12	417.1875
12.5	417.1875
13	451.2300
13.5	486.6075
14	523.3200
14.5	561.3675
15	600.7500
15.5	641.4675
16	726.9075
16.5	726.9075
17	771.6300
17.5	817.6875
18	865.0800
18.5	913.8075
19	963.8700
19.5	1015.2675
20	1068.0000

## Strips

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
<b>(1/8") .125 x</b>		<b>(3/16") .188 x</b>	
1/2	.213	3/8	.239
5/8	.266	1/2	.319
3/4	.319	5/8	.398
7/8	.372	3/4	.478
		7/8	.558
1	.425	1	.638
1-1/8	.478	1-1/8	.717
1-1/4	.531	1-1/4	.797
1-3/8	.584	1-3/8	.877
1-1/2	.638	1-1/2	.956
1-3/4	.744	1-3/4	1.12
2	.850	2	1.28
2-1/4	.956	2-1/4	1.43
2-1/2	1.06	2-1/2	1.59
2-3/4	1.17	2-3/4	1.75
3	1.28	3	1.91
3-1/4	1.38	3-1/4	2.07
3-1/2	1.49	3-1/2	2.23
4	1.70	4	2.55
4-1/2	1.91	4-1/2	2.87
5	2.13	5	3.19
5-1/2	2.34	5-1/2	3.51
6	2.55	6	3.83
7	2.98	7	4.46
8	3.40	8	5.10
9	3.83	9	5.74
10	4.25	10	6.38
12	5.10	12	7.65

## Flat Bars

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
<b>1/4 x</b>		<b>5/16</b>	
3/8	.319	4	4.25
1/2	.425	4-1/2	4.78
5/8	.531	5	5.31
3/4	.638	5-1/2	5.84
7/8	.744	6	6.38
1	.850	7	7.44
1-1/8	.956	8	8.50
1-1/4	1.06		
1-3/8	1.17	<b>3/8 x</b>	
1-1/2	1.28	1/2	.638
1-5/8	1.38	5/8	.797
1-3/4	1.49	3/4	.956
2	1.70	7/8	1.12
2-1/4	1.91	1	1.28
2-1/2	2.13	1-1/8	1.43
2-3/4	2.34	1-1/4	1.59
3	2.55	1-3/8	1.75
3-1/4	2.76	1-1/2	1.91
3-1/2	2.98	1-5/8	2.07
3-3/4	3.19	1-3/4	2.23
4	3.40	2	2.55
4-1/4	3.61	2-1/4	2.87
4-1/2	3.83	2-1/2	3.19
5	4.25	2-3/4	3.51
5-1/2	4.68	3	3.83
6	5.10	3-1/4	4.14
7	5.95	3-1/2	4.46
8	6.80	4	5.10
		4-1/2	5.74
<b>5/16 x</b>		5	6.38
1/2	.531	5-1/2	7.01
5/8	.664	6	7.65
3/4	.797	7	8.93
7/8	.930	7-1/2	9.56
1	1.06	8	10.20
1-1/8	1.20		
1-1/4	1.33	<b>7/16 x</b>	
1-3/8	1.46	1	1.49
1-1/2	1.59	1-1/4	1.86
1-3/4	1.86	1-1/2	2.23
2	2.13	2	2.98
2-1/4	2.39	2-1/2	3.72
2-1/2	2.66	3	4.46
2-3/4	2.92	5	7.44
3	3.19		
3-1/4	3.45		
3-1/2	3.72		

## Flat Bars (cont.)

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
<b>1/2 X</b>		<b>3/4 X</b>	
5/8	1.06	7/8	2.23
3/4	1.28	1	2.55
7/8	1.49	1-1/8	2.87
1	1.70	1-1/4	3.19
1-1/8	1.91	1-1/2	3.83
1-1/4	2.13	1-5/8	4.14
1-3/8	2.34	1-3/4	4.46
1-1/2	2.55	2	5.10
1-5/8	2.76	2-1/4	5.74
1-3/4	2.98	2-1/2	6.38
2	3.40	2-3/4	7.01
2-1/4	3.83	3	7.65
2-1/2	4.25	3-1/4	8.29
2-3/4	4.68	3-1/2	8.93
3	5.10	4	10.20
3-1/4	5.53	4-1/2	11.48
3-1/2	5.95	5	12.75
3-3/4	6.38	5-1/2	14.03
4	6.80	6	15.30
4-1/2	7.65	7	17.85
5	8.50	8	20.40
5-1/2	9.35		
6	10.20	<b>7/8 x</b>	
7	11.90	1	2.98
8	13.60	1-1/4	3.72
		1-1/2	4.46
		1-3/4	5.21
		2	5.95
<b>5/8 X</b>		2-1/4	6.69
3/4	1.59	2-1/2	7.44
1	2.13	3	8.93
1-1/4	2.66	3-1/2	10.41
1-3/8	2.92	4	11.90
1-1/2	3.19	4-1/2	13.39
1-5/8	3.45	5	14.88
1-3/4	3.72	5-1/2	16.36
2	4.25	6	17.85
2-1/4	4.78	7	20.83
2-1/2	5.31	8	23.80
2-3/4	5.84		
3	6.38	<b>1 x</b>	
3-1/4	6.91	1-1/4	4.25
3-1/2	7.44	1-1/2	5.10
4	8.50	1-3/4	5.95
4-1/2	9.56	2	6.80
5	10.63	2-1/4	7.65
5-1/2	11.69	2-1/2	8.50
6	12.75	2-3/4	9.35
7	14.88	3	10.20
8	17.00	3-1/4	11.05

## Flat Bars

Size in Inches	Weight per Foot	Size in Inches	Weight per Foot
<b>1x</b>		<b>1-3/4 x</b>	
3-1/2	11.90	2	11.90
4	13.60	2-1/2	14.88
4-1/2	15.30	2-3/4	16.36
5	17.00	3	17.85
5-1/2	18.70	3-1/2	20.83
6	20.40	4	23.80
7	23.80	4-1/2	26.78
8	27.20	5	29.75
		6	35.70
		8	47.60
<b>1-1/8 x</b>		<b>2 x</b>	
2	7.65	1-1/4	15.30
3	11.48	2-1/2	17.00
4	15.30	3	20.40
5	19.13	3-1/2	23.80
5-1/2	21.04	4	27.20
6	22.95	4-1/2	30.60
		5	34.00
<b>1-1/4 x</b>		6	40.80
1-1/2	6.38	7	47.60
1-3/4	7.44	8	54.40
2	8.50		
2-1/4	9.56	<b>2-1/4 x</b>	
2-1/2	10.63	3	22.95
2-3/4	11.69	4	30.60
3	12.75		
3-1/4	13.81	<b>2-1/2 x</b>	
3-1/2	14.88	3	25.50
4	17.00	3-1/2	29.75
4-1/2	19.13	4	34.00
5	21.25	4-1/2	38.25
5-1/2	23.38	5	42.50
6	25.50	6	51.00
7	29.75		
8	34.00	<b>3 x</b>	
		4	40.80
<b>1-1/2 x</b>		4-1/2	45.90
1-3/4	8.93	5	51.00
2	10.20	6	61.20
2-1/4	11.48		
2-1/2	12.75	<b>3-1/2 x</b>	
2-3/4	14.03	4	47.60
3	15.30		
3-1/2	17.85	<b>4 x</b>	
4	20.40	6	81.60
4-1/2	22.95	8	108.8
5	25.50		
5-1/2	28.05	<b>5 x</b>	
6	30.60	6	102.0
7	35.70	8	136.0
8	40.80		

## Universal Mill Plates

Size in Inches	Weight per Foot
<b>9 x</b>	
1/4	7.66
3/8	11.49
1/2	15.31
5/8	19.13
3/4	22.97
1	30.63
<b>10 x</b>	
1/4	8.51
5/16	10.64
3/8	12.76
1/2	17.02
5/8	21.27
3/4	25.52
1	34.02
<b>11 x</b>	
1/4	9.35
5/16	11.70
3/8	14.04
1/2	18.72
5/8	23.40
3/4	28.08
1	37.44
<b>12 x</b>	
1/4	10.21
5/16	12.76
3/8	15.31
1/2	20.42
5/8	25.52
3/4	30.63
1	40.84

## Plates

Thickness In.	Lbs. per Sq Ft	Thickness In.	Lbs per Sq Ft
3/16	7.66	3-1/4	132.72
1/4	10.21	3-1/2	142.93
5/16	12.76	3-3/4	153.14
3/8	15.32		
7/16	17.87	4	163.35
1/2	20.42	4-1/4	173.56
		4-1/2	183.77
9/16	22.97	4-3/4	193.98
5/8	25.53	5	204.19
11/16	28.08		
3/4	30.63	5-1/2	224.61
7/8	35.73	6	245.03
1	40.84	6-1/2	265.45
		7	285.87
1-1/8	45.95	7-1/2	306.29
1-1/4	51.05	8	326.71
1-3/8	56.16	8-1/2	347.13
1-1/2	61.26	9	367.55
1-5/8	66.37		
1-3/4	74.47	10	408.38
1-7/8	76.58	11	449.22
2	81.68	12	490.06
2-1/8	86.78		
2-1/4	91.89		
2-3/8	86.99		
2-1/2	102.10		
2-5/8	107.20		
2-3/4	112.31		
2-7/8	117.41		
3	122.52		

## Floor Plates

Thickness in Inches	Lbs. Per Square Foot
#16	3.00
#14	3.75
#12	5.25
1/8	6.16
3/16	8.71
1/4	11.26
5/16	13.81
3/8	16.37
1/2	21.47
5/8	26.58
3/4	31.68
1	41.89

## Sheets

Standard Gauge	Decimal	Weight Per Square Foot
7	.1793	7.500
8	.1644	6.875
9	.1494	6.250
10	.1345	5.625
11	.1196	5.000
12	.1046	4.375
13	.0897	3.750
14	.0747	3.125
15	.0673	2.812
16	.0598	2.500
17	.0538	2.250
18	.0478	2.000
19	.0418	1.750
20	.0359	1.500
21	.0329	1.375
22	.0299	1.250
23	.0269	1.125
24	.0239	1.000
25	.0209	.875
26	.0179	.750
27	.0164	.6875
28	.0149	.625
29	.0135	.5625
30	.0120	.500

## Carbon Square Tubing

All sizes smaller than 2" SQ and Equivalent rectangles with wall thicknesses less than .120" are manufactured to ASTM A-513. Sizes 2" and above with wall thicknesses of .120" and heavier are manufactured to ASTM A-500.

Size	Wall (in)	Wt./Ft.	Size	Wall (in)	Wt./Ft.
1/2" x 1/2" x	.065	.384	2" x 2" x	.065	1.710
5/8" x 5/8" x	.065	.495		.083	2.164
3/4" x 3/4" x	.049	.476		.095	2.461
	.065	.605		.109	2.802
	.083	.753		.120	3.050
	.120	1.028	2-1/4" x 2-1/4" x	.188	4.320
7/8" x 7/8" x	.065	.716		.250	5.410
1" x 1" x	.049	.634	2-1/2" x 2-1/2" x	.188	4.960
	.065	.827		.083	2.730
	.072	.909		.109	3.544
	.083	1.035		.120	3.900
	.095	1.169		.188	5.590
	.109	1.320	3" x 3" x	.250	7.110
	.120	1.436		.083	3.290
1-1/4" x 1-1/4" x	.049	.800		.120	4.750
	.065	1.047		.188	6.870
	.083	1.317		.250	8.810
	.109	1.691		.313	10.580
	.120	1.844	3-1/2" x 3-1/2" x	.375	12.170
	.188	2.400		.120	5.610
1-1/2" x 1-1/2" x	.049	.967		.188	8.150
	.065	1.268		.250	10.510
	.083	1.599	4" x 4" x	.313	12.700
	.095	1.815		.083	4.420
	.109	2.062		.120	6.460
	.120	2.252		.188	9.420
	.188	3.040		.250	12.210
	.250	4.000		.313	14.830
1-3/4" x 1-3/4" x	.065	1.489		.375	17.270
	.083	1.881		.500	21.630
	.120	2.660			

## Carbon Square Tubing

Size	Wall (in)	Wt./Ft.	Size	Wall (in)	Wt./Ft.
4-1/2" x 4-1/2" x	.188	10.700	10" x 10" x	.250	32.630
	.250	13.910		.313	40.350
5" x 5" x				.375	47.900
	.120	7.800		.500	62.460
	.188	11.970		.625	76.330
	.250	15.620	12" x 12" x		
	.313	19.080		.250	39.430
5-1/2" x 5-1/2" x	.375	22.370		.375	58.100
	.500	28.430		.500	76.070
			14" x 14" x		
6" x 6" x	.188	13.270		.500	89.680
6" x 6" x	.120	9.860	16" x 16" x	.500	103.300
	.188	14.530			
	.250	19.020			
	.313	23.340			
	.375	27.480			
	.500	35.240			
	.625	42.260			
7" x 7" x	.188	17.080			
	.250	22.420			
	.313	27.590			
	.375	32.580			
	.500	42.050			
8" x 8" x	.188	19.630			
	.250	25.820			
	.313	31.840			
	.375	37.690			
	.500	48.850			
9" x 9" x	.625	59.320			
	.250	29.230			

## Rectangular Tubing

Size	Gauge	Wt./Ft.	Size	Gauge	Wt./Ft.
<b>1 x 3/8</b>	20 ga	.252	<b>1-1/4 x 1</b>	22 ga	.418
	19 ga	.311		20 ga	.519
	18 ga	.369		19 ga	.717
	16 ga	.426		18 ga	.937
<b>1 x 1/2</b>	22 ga	.275		17 ga	1.031
	20 ga	.240		16 ga	1.176
	19 ga	.404		15 ga	1.031
	18 ga	.467		14 ga	1.176
	17 ga	.546		13 ga	1.331
	16 ga	.606		12 ga	1.506
	15 ga	.664		11 ga	1.640
	14 ga	.753	<b>1-1/2 x 1/2</b>	22 ga	.370
	13 ga	.846		20 ga	.459
12 ga	.950	19 ga		.547	
11 ga	1.028	18 ga		.634	
		17 ga		.734	
<b>1 x 5/8</b>	22 ga	.299	16 ga	.827	
	20 ga	.370	15 ga	.909	
	19 ga	.440	14 ga	1.035	
	18 ga	.509	13 ga	1.169	
	17 ga	.595	12 ga	1.321	
	16 ga	.660	11 ga	1.436	
	15 ga	.725	<b>1-1/2 x 5/8</b>	20 ga	.489
	14 ga	.823		19 ga	.583
		18 ga		.675	
<b>1 x 3/4</b>	22 ga	.323	17 ga	.812	
	20 ga	.400	16 ga	.881	
	19 ga	.476	<b>1-1/2 x 3/4</b>	22 ga	.418
	18 ga	.550		20 ga	.519
	17 ga	.644		19 ga	.619
	16 ga	.716		18 ga	.717
	15 ga	.786		17 ga	.842
	14 ga	.894		16 ga	.937
	13 ga	1.008		15 ga	1.031
<b>1-1/4 x 1/2</b>	20 ga	.400	14 ga	1.176	
	19 ga	.476	13 ga	1.331	
	18 ga	.550	12 ga	1.506	
	17 ga	.644	11 ga	1.640	
	16 ga	.716			

## Rectangular Tubing

Size	Gauge	Wt./Ft.	Size	Gauge	Wt./Ft.
<b>1-1/2 x 1</b>	20 ga	.578	<b>2 x 1-1/2</b>	12 ga	1.433
	18 ga	.800		11 ga	1.660
	16 ga	1.048		<b>2-1/4 x 1</b>	16 ga
	15 ga	1.153	15 ga		1.521
	14 ga	1.317	14 ga		1.741
	13 ga	1.492	13 ga		1.977
	12 ga	1.691	12 ga		1.247
	11 ga	1.844	11 ga	1.456	
<b>1-3/4 x 1-1/4</b>	20 ga	.697	<b>2-1/4 x 1-1/4</b>	20 ga	.876
	18 ga	.967		18 ga	1.217
	16 ga	1.269		16 ga	1.601
	15 ga	1.398		15 ga	1.765
	14 ga	1.600		14 ga	1.032
	13 ga	2.815		13 ga	1.300
	12 ga	2.062		12 ga	1.618
<b>2 x 3/4</b>	16 ga	1.158	11 ga	1.864	
	15 ga	1.276	<b>2-1/2 x 1-1/4</b>	18 ga	1.300
	14 ga	1.458		16 ga	1.711
	13 ga	1.654		14 ga	2.164
<b>2 x 1</b>	20 ga	.697		13 ga	2.461
	18 ga	.967	12 ga	2.803	
	16 ga	1.269	11 ga	3.068	
	15 ga	1.398	<b>3 x 1</b>	18 ga	1.300
	14 ga	1.600		16 ga	1.711
	13 ga	1.815		14 ga	2.164
	12 ga	2.062		13 ga	2.461
11 ga	2.252	12 ga	2.803		
<b>2 x 1-1/4</b>	20 ga	.757	11 ga	3.068	
	18 ga	1.050	<b>3 x 1-1/2</b>	14 ga	2.466
	16 ga	1.379		13 ga	2.784
	15 ga	1.521		12 ga	3.174
	14 ga	1.741		11 ga	3.476
	13 ga	1.977	<b>3 x 2</b>	16 ga	2.156
	12 ga	1.242		15 ga	2.377
11 ga	1.456	14 ga		2.723	
<b>2 x 1-1/2</b>	16 ga	1.490	13 ga	3.107	
	15 ga	1.643	12 ga	3.544	
	14 ga	1.882	11 ga	3.844	
	13 ga	1.138			

## Round Carbon Pipe

Pipe size	O.D. (in.)	Schedule	Wall	I.D. (in.)	Wt./Ft.
<b>Nominal</b>					
1/8"	.405	40	.068	.269	.24
1/8"	.405	80	.095	.215	.31
<b>Nominal</b>					
1/4"	.540	40	.088	.364	.43
1/4"	.540	80	.119	.302	.54
<b>Nominal</b>					
3/8"	.675	40	.091	.493	.57
3/8"	.675	80	.126	.423	.74
<b>Nominal</b>					
1/2"	.840	40	.109	.622	.85
1/2"	.840	80	.147	.546	1.09
<b>Nominal</b>					
3/4"	1.050	40	.113	.824	1.13
3/4"	1.050	80	.154	.742	1.48
<b>Nominal</b>					
1"	1.315	40	.133	1.049	1.68
1"	1.315	80	.179	.957	2.17
<b>Nominal</b>					
1-1/4"	1.660	40	.140	1.380	2.27
1-1/4"	1.660	80	.191	1.278	3.00
<b>Nominal</b>					
1-1/2"	1.900	40	.145	1.610	2.72
1-1/2"	1.900	80	.200	1.500	3.63
<b>Nominal</b>					
2"	2.375	40	.154	2.067	3.66
2"	2.375	80	.218	1.939	5.03
2"	2.375	160	.344	1.687	7.47
2"	2.375	XXS	.436	1.503	9.04
<b>Nominal</b>					
2-1/2"	2.875	40	.203	2.469	5.80
2-1/2"	2.875	80	.276	2.323	7.67
2-1/2"	2.875	160	.375	2.125	10.02
2-1/2"	2.875	XXS	.552	1.771	13.71
<b>Nominal</b>					
3"	3.500	40	.216	3.068	7.58
3"	3.500	80	.300	2.900	10.26
3"	3.500	160	.438	2.624	14.34
3"	3.500	XXS	.600	2.300	18.60
<b>Nominal</b>					
3-1/2"	4.000	40	.226	3.548	9.12
3-1/2"	4.000	80	.318	3.364	12.52
3-1/2"	4.000	XXS	.636	2.728	22.87

## Round Carbon Pipe

Nominal					
4"	4.500	40	.237	4.026	10.80
4"	4.500	80	.337	3.826	15.00
4"	4.500	120	.438	3.624	19.02
4"	4.500	160	.531	3.438	22.53
4"	4.500	XXS	.674	3.152	27.57
Nominal					
5"	5.563	40	.258	5.047	14.63
5"	5.563	80	.375	4.813	20.80
5"	5.563	120	.500	4.563	27.06
5"	5.563	160	.625	4.313	32.99
5"	5.563	XXS	.750	4.063	38.59
Nominal					
6"	6.625		.134	6.357	9.30
6"	6.625		.188	6.249	12.94
6"	6.625		.250	6.125	17.04
6"	6.625	40	.280	6.065	18.99
6"	6.625	80	.344	5.937	23.08
6"	6.625	80	.432	5.761	28.60
6"	6.625	120	.562	5.501	36.43
6"	6.625	160	.719	5.187	45.39
6"	6.625	XXS	.864	4.897	53.21
Nominal					
7"	7.625	XS	.500	6.625	38.08
Nominal					
8"	8.625		.109	8.407	9.92
8"	8.625		.188	8.249	16.96
8"	8.625	20	.250	8.125	22.38
8"	8.625	30	.277	8.071	24.72
8"	8.625	40	.322	7.981	28.58
8"	8.625	60	.406	7.813	35.67
8"	8.625	80	.500	7.625	43.43
8"	8.625	100	.594	7.439	51.00
8"	8.625	120	.719	7.189	60.77
8"	8.625	140	.812	7.001	67.82
8"	8.625	XXS	.875	6.875	72.49
8"	8.625	160	.906	6.813	74.76
Nominal					
9"	9.625	XS	.500	8.625	48.77
Nominal					
10"	10.750		.188	10.374	21.23
10"	10.750	20	.250	10.250	28.06
10"	10.750		.279	10.192	31.23
10"	10.750	30	.307	10.136	34.27
10"	10.750	40	.365	10.020	40.52
10"	10.750	XS	.500	9.750	54.79
10"	10.750	80	.594	9.562	64.49
10"	10.750	100	.719	9.312	77.10
10"	10.750	120	.844	9.062	89.38

## Round Carbon Pipe

Pipe size	O.D. (in.)	Schedule	Wall	I.D. (in.)	Wt./Ft.
<b>Nominal</b>					
10"	10.750	140	1.000	8.750	104.23
10"	10.750	160	1.125	8.500	115.75
10"	10.750		1.250	8.250	126.94
10"	10.750		1.500	7.750	148.32
10"	10.750		1.750	7.250	168.21
10"	10.750		2.00	6.750	186.90
10"	10.750		2.500	5.750	220.28
<b>Nominal</b>					
11"	11.750	Std.	.375	11.000	45.60
11"	11.750	XS	.500	10.750	60.13
11"	11.750	XXS	.844	10.062	98.40
11"	11.750		1.000	9.750	114.92
11"	11.750		1.250	9.250	140.31
<b>Nominal</b>					
12"	12.750		.188	12.374	25.25
12"	12.750	20	.250	12.250	33.41
12"	12.750	30	.330	12.090	43.81
12"	12.750	Std.	.375	12.000	49.61
12"	12.750	40	.406	11.938	53.57
12"	12.750	XS	.500	11.750	65.48
12"	12.750	60	.562	11.626	73.22
12"	12.750	80	.688	11.374	88.71
12"	12.750	100	.844	11.062	107.42
12"	12.750	120	1.000	10.750	125.61
12"	12.750	140	1.125	10.500	139.81
12"	12.750	160	1.312	10.126	160.42
12"	12.750		1.500	9.750	180.39
12"	12.750		1.750	9.250	205.78
12"	12.750		2.000	8.750	229.84

## Carbon Mechanical Tubing

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>3/16" O.D.</b>				<b>5/8" O.D.</b>			
.188	.028	.132	.064	.625	.035	.555	.221
<b>1/4" O.D.</b>				.625	.049	.527	.301
.250	.028	.194	.066	.625	.058	.509	.351
.250	.035	.180	.080	.625	.065	.495	.389
.250	.049	.152	.105	.625	.083	.459	.481
<b>5/16" O.D.</b>				.625	.095	.435	.538
.313	.028	.257	.085	.625	.109	.407	.601
.313	.035	.243	.104	.625	.120	.385	.647
.313	.049	.215	.138	.625	.125	.375	.670
.313	.065	.183	.172	.625	.134	.357	.703
<b>3/8" O.D.</b>				.625	.156	.313	.781
.375	.028	.319	.104	.625	.188	.250	.877
.375	.035	.305	.127	<b>1 1/16" O.D.</b>			
.375	.049	.277	.171	.688	.065	.558	.433
.375	.058	.259	.196	.688	.083	.522	.536
.375	.065	.245	.215	.688	.095	.498	.602
.375	.083	.209	.259	.688	.109	.470	.674
.375	.095	.185	.284	.688	.120	.448	.728
.375	.120	.135	.327	<b>.742" O.D.</b>			
<b>7/16" O.D.</b>				.742	.114	.514	.765
.438	.049	.340	.204	<b>3/4" O.D.</b>			
.438	.065	.308	.259	.750	.035	.680	.267
.438	.120	.198	.408	.750	.049	.652	.367
<b>1/2" O.D.</b>				.750	.055	.640	.430
.500	.035	.430	.174	.750	.060	.630	.442
.500	.049	.402	.236	.750	.065	.620	.476
.500	.058	.384	.274	.750	.083	.584	.591
.500	.065	.370	.302	.750	.090	.570	.634
.500	.083	.334	.370	.750	.095	.560	.665
.500	.095	.310	.411	.750	.109	.532	.746
.500	.109	.282	.455	.750	.120	.510	.807
.500	.120	.260	.487	.750	.125	.500	.834
.500	.125	.250	.500	.750	.134	.482	.882
.500	.156	.188	.573	.750	.138	.474	.900
<b>9/16" O.D.</b>				.750	.156	.438	.990
.563	.035	.493	.197	.750	.188	.375	1.128
.563	.065	.433	.346	.750	.219	.312	1.242
.563	.083	.397	.426	.750	.250	.250	1.335
.563	.095	.373	.475	<b>.813" O.D.</b>			
.563	.109	.345	.529	.813	.061	.691	.490
.563	.120	.323	.568				

Carbon Mechanical Tubing (cont.)

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>13/16" O.D.</b>				<b>1-1/16" O.D.</b>			
.813	.049	.715	.400	1.063	.083	.897	.869
.813	.065	.683	.520	1.063	.095	.873	.982
.813	.065	.683	.519	1.063	.109	.845	1.111
.813	.069	.675	.548	1.063	.120	.823	1.209
.813	.083	.647	.647	1.063	.156	.751	1.511
.813	.095	.623	.729	1.063	.188	.687	1.757
.813	.120	.573	.888	1.063	.250	.563	2.171
.813	.120	.573	.985	<b>1-1/8" O.D.</b>			
.813	.134	.545	.972	1.125	.049	1.027	.563
<b>.840" O.D.</b>				1.125	.065	.995	.736
.840	.109	.622	.850	1.125	.083	.959	.924
<b>7/8" O.D.</b>				1.125	.095	.935	1.045
.875	.049	.777	.432	1.125	.109	.907	1.183
.875	.058	.759	.506	1.125	.120	.885	1.288
.875	.065	.745	.562	1.125	.125	.875	1.340
.875	.083	.709	.702	1.125	.134	.857	1.418
.875	.095	.685	.791	1.125	.156	.813	1.614
.875	.109	.657	.892	1.125	.180	.765	1.817
.875	.120	.635	.968	1.125	.188	.750	1.881
.875	.156	.563	1.198	1.125	.219	.688	2.119
.875	.188	.500	1.379	1.125	.250	.625	2.336
.875	.219	.437	1.534	1.125	.281	.563	2.533
.875	.256	.375	1.669	1.125	.313	.500	2.714
<b>15/16" O.D.</b>				<b>1-3/16" O.D.</b>			
.938	.120	.698	1.048	1.188	.065	1.058	.780
.938	.134	.670	1.151	1.188	.083	1.022	.979
.938	.188	.562	1.506	1.188	.156	.876	.719
<b>1" O.D.</b>				1.118	.188	.813	2.008
1.000	.035	.930	.361	1.118	.250	.688	2.504
1.000	.049	.902	.498	<b>1-1/4" O.D.</b>			
1.000	.065	.870	.649	1.250	.049	1.152	.629
1.000	.083	.834	.813	1.250	.065	1.120	.823
1.000	.095	.810	.918	1.250	.083	1.084	1.034
1.000	.109	.782	1.037	1.250	.095	1.060	1.172
1.000	.120	.760	1.128	1.250	.109	1.032	1.328
1.000	.134	.732	1.239	1.250	.120	1.010	1.448
1.000	.156	.688	1.406	1.250	.125	1.000	1.510
1.000	1.72	.656	1.517	1.250	.134	.982	1.597
1.000	.180	.640	1.576	1.250	.156	.938	1.823
1.000	.188	.625	1.630	1.250	.188	.875	2.132
1.000	.219	.562	1.827	1.250	.219	.813	2.411
1.000	.250	.500	2.003	1.250	.235	.780	2.547
1.000	.281	.438	2.158	1.250	.250	.750	2.670
1.000	.313	.375	2.297	1.250	.281	.688	2.908
1.000	.375	.250	2.503	1.250	.313	.624	3.130
<b>1.050" O.D.</b>				1.250	.313	.625	3.132
1.050	.113	.824	1.130	1.250	.344	.562	3.329
				1.250	.375	.500	3.504
				1.250	.438	.375	3.798

Carbon Mechanical Tubing (cont.)

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>1-5/16"O.D</b>				<b>1-1/2"O.D.</b>			
1.313	.065	1.183	.865	1.500	.240	1.020	3.230
1.313	.109	1.095	1.402	1.500	.248	1.004	3.320
1.313	.120	1.072	1.529	1.500	.250	1.000	3.338
1.313	.134	1.045	1.687	1.500	.281	.938	3.658
1.313	.156	1.000	1.928	1.500	.313	.875	3.968
1.313	.188	.937	2.259	1.500	.344	.812	4.247
1.313	.219	.875	2.559	1.500	.375	.750	4.506
1.313	.250	.813	2.838	1.500	.438	.625	4.968
1.313	.375	.563	3.757	1.500	.500	.500	5.340
<b>1.315"O.D.</b>				<b>1-9/16"O.D.</b>			
1.315	.109	1.097	1.400	1.563	.120	1.323	1.849
1.315	.133	1.049	1.680	1.563	.156	1.250	2.344
<b>1-3/8"O.D</b>				<b>1-5/8"O.D.</b>			
1.375	.035	1.305	.500	1.563	.250	1.063	3.506
1.375	.049	1.277	.694	1.563	.375	.813	4.758
1.375	.065	1.245	.909	1.625	.049	1.527	.825
1.375	.083	1.209	1.145	1.625	.065	1.495	1.083
1.375	.095	1.185	1.299	1.625	.095	1.435	1.552
1.375	.120	1.135	1.608	1.625	.120	1.385	1.929
1.375	.125	1.125	1.660	1.625	.125	1.375	2.003
1.375	.134	1.107	1.776	1.625	.134	1.357	2.130
1.375	.156	1.063	2.031	1.625	.156	1.313	2.447
1.375	1.72	1.031	2.210	1.625	.172	1.281	2.669
1.375	.180	1.015	2.297	1.625	.180	1.265	2.778
1.375	.188	1.000	2.383	1.625	.188	1.250	2.885
1.375	.219	.938	2.704	1.625	.219	1.187	3.289
1.375	.243	.889	2.938	1.625	.250	1.125	3.671
1.375	.250	.875	3.004	1.625	.281	1.063	4.033
1.375	.281	.813	3.283	1.625	.313	.999	4.386
1.375	.313	.750	3.550	1.625	.375	.875	5.006
1.375	.375	.625	4.005	1.625	.438	.749	5.553
<b>1-7/16"O.D.</b>				<b>1-11/16"O.D.</b>			
1.438	.156	1.125	2.136	1.625	.500	.625	6.008
1.438	.188	1.062	2.510	<b>1.660"O.D.</b>			
1.438	.219	1.000	2.851	1.660	.120	1.420	1.980
1.438	.250	.938	3.172	1.660	.140	1.380	2.270
<b>1-1/2"O.D.</b>				<b>1-3/4"O.D.</b>			
1.500	.035	1.430	.550	1.688	.156	1.376	2.552
1.500	.049	1.402	.759	1.688	.188	1.312	3.012
1.500	.065	1.370	.996	1.688	.250	1.188	3.839
1.500	.083	1.334	1.256	1.750	.035	1.680	.641
1.500	.095	1.310	1.426	1.750	.049	1.652	.890
1.500	.109	1.282	1.619	1.750	.065	1.620	1.170
1.500	.120	1.260	1.769	1.750	.083	1.584	1.478
1.500	.134	1.232	1.955	1.750	.095	1.560	1.679
1.500	.156	1.188	2.239	1.750	.109	1.532	1.910
1.500	.188	1.125	2.634	1.750	.120	1.510	2.089
1.500	.219	1.062	2.996	1.750	.134	1.482	2.313
1.500	.234	1.032	3.160	1.750	.156	1.438	2.656

**Carbon Mechanical Tubing (cont.)**

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>1-3/4" O.D.</b>				<b>2" O.D.</b>			
1.750	.188	1.375	3.136	2.000	.375	1.250	6.508
1.750	.219	1.312	3.581	2.000	.438	1.125	7.307
1.750	.235	1.280	3.802	2.000	.485	1.030	7.847
1.750	.239	1.272	3.857	2.000	.500	1.000	8.010
1.750	.250	1.250	4.005	2.000	.563	.874	8.640
1.750	.281	1.188	4.409	2.000	.625	.750	9.178
1.750	.313	1.124	4.804	2.000	.750	.500	10.010
1.750	.375	1.000	5.507	<b>2.055" O.D.</b>			
1.750	.438	.875	6.137	2.055	.270	1.515	5.147
1.750	.500	.750	6.675	<b>2-1/8" O.D.</b>			
<b>1-13/16" O.D.</b>				2.125	.049	2.027	1.086
1.813	.120	1.573	2.170	2.125	.065	1.995	1.430
<b>1-7/8" O.D.</b>				2.125	.095	1.935	2.060
1.875	.035	1.805	.688	2.125	.120	1.885	2.570
1.875	.065	1.745	1.257	2.125	.156	1.813	3.281
1.875	.083	1.709	1.589	2.125	.188	1.750	3.889
1.875	.095	1.685	1.806	2.125	.193	1.739	3.982
1.875	.120	1.635	2.249	2.125	.219	1.687	4.458
1.875	.126	1.623	2.350	2.125	.250	1.625	5.006
1.875	.156	1.563	2.864	2.125	.281	1.563	5.534
1.875	.188	1.500	3.387	2.125	.313	1.500	6.057
1.875	.219	1.438	3.873	2.125	.375	1.375	7.009
1.875	.250	1.375	4.339	2.125	.438	1.250	7.892
1.875	.281	1.313	4.784	2.125	.500	1.125	8.678
1.875	.313	1.250	5.222	1.125	.563	1.000	9.392
1.875	.375	1.125	6.008	<b>2-3/16" O.D.</b>			
1.875	.438	1.000	6.722	2.188	.313	1.562	6.268
1.875	.500	.875	7.343	2.188	.419	1.350	7.920
<b>1.900" O.D.</b>				<b>2-1/4" O.D.</b>			
1.900	.109	1.682	2.080	2.250	.048	2.154	1.130
1.900	.145	1.610	2.720	2.250	.049	2.152	1.152
<b>2" O.D.</b>				2.250	.065	2.120	1.517
2.000	.049	1.902	1.021	2.250	.083	2.084	1.921
2.000	.065	1.870	1.343	2.250	.095	2.060	2.186
2.000	.083	1.834	1.699	2.250	.120	2.010	2.730
2.000	.095	1.810	1.933	2.250	.125	2.000	2.837
2.000	.109	1.782	2.201	2.250	.156	1.938	3.489
2.000	.120	1.760	2.409	2.250	.188	1.875	4.140
2.000	.125	1.750	2.503	2.250	.219	1.812	4.750
2.000	.134	1.732	2.670	2.250	.250	1.750	5.340
2.000	.156	1.688	3.070	2.250	.281	1.688	5.909
2.000	.188	1.624	3.638	2.250	.313	1.625	6.475
2.000	.219	1.562	4.166	2.250	.344	1.563	7.002
2.000	.240	1.520	4.511	2.250	.365	1.520	7.350
2.000	.250	1.500	4.673	2.250	.371	1.508	7.445
2.000	.281	1.438	5.159	2.250	.375	1.500	7.509
2.000	.313	1.375	5.639	2.250	.406	1.438	7.999
2.000	.344	1.312	6.084	2.250	.438	1.375	8.476
2.000	.368	1.264	6.414	2.250	.500	1.250	9.345

**Carbon Mechanical Tubing (cont.)**

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>2-1/4"O.D.</b>				<b>2-5/8"O.D.</b>			
2.250	.563	1.124	10.140	2.625	.120	2.385	3.210
2.250	.325	1.000	10.850	2.625	.156	2.312	4.114
2.250	.750	.750	12.020	2.625	.188	2.250	4.893
<b>2-3/8"O.D.</b>				2.625	.250	2.125	6.341
2.375	.065	2.245	1.604	2.625	.281	2.063	7.035
2.375	.109	2.157	2.638	2.625	.313	2.000	7.729
2.375	.120	2.135	2.890	2.625	.375	1.875	9.011
2.375	.154	2.067	3.650	2.625	.438	1.750	10.230
2.375	.156	2.063	3.697	2.625	.500	1.625	11.350
2.375	.188	2.000	4.391	2.625	.563	1.499	12.398
2.375	.200	1.975	4.646	2.625	.625	1.375	13.350
2.375	.219	1.937	5.043	<b>2-3/4"O.D.</b>			
2.375	.250	1.875	5.674	2.750	.049	2.652	1.409
2.375	.281	1.813	6.284	2.750	.065	2.620	1.864
2.375	.313	1.750	6.893	2.750	.083	2.584	2.364
2.375	.375	1.625	8.010	2.750	.095	2.560	2.694
2.375	.438	1.500	9.061	2.750	.120	2.510	3.371
2.375	.500	1.375	10.010	2.750	.125	2.500	3.504
2.375	.563	1.249	10.900	2.750	.156	2.438	4.322
2.375	.625	1.125	11.680	2.750	.188	2.375	5.144
<b>2.438"O.D.</b>				2.750	.219	2.312	5.920
2.438	.232	1.974	5.466	2.750	.250	2.250	6.675
2.438	.250	1.938	5.842	2.750	.281	2.188	7.410
<b>2-1/2"O.D.</b>				2.750	.313	2.125	8.147
2.500	.049	2.402	1.280	2.750	.344	2.062	8.840
2.500	.065	2.370	1.690	2.750	.375	2.000	9.512
2.500	.083	2.334	2.143	2.750	.438	1.875	10.820
2.500	.095	2.310	2.440	2.750	.500	1.750	12.015
2.500	.109	2.282	2.783	2.750	.559	1.632	13.080
2.500	.120	2.260	3.050	2.750	.563	1.625	13.150
2.500	.156	2.188	3.905	2.750	.625	1.500	14.180
2.500	.188	2.125	4.642	2.750	.750	1.250	16.020
2.500	.219	2.062	5.335	2.750	.875	1.000	17.520
2.500	.250	2.000	6.008	<b>2-7/8"O.D.</b>			
2.500	.259	1.982	6.200	2.875	.065	2.745	1.951
2.500	.281	1.938	6.659	2.875	.120	2.635	3.531
2.500	.313	1.875	7.311	2.875	.156	2.563	4.528
2.500	.344	1.813	7.921	2.875	.188	2.500	5.395
2.500	.375	1.750	8.511	2.875	.191	2.494	5.479
2.500	.438	1.625	9.646	2.875	.203	2.470	5.790
2.500	.483	1.530	10.220	2.875	.219	2.438	6.212
2.500	.500	1.500	10.680	2.875	.250	2.375	7.009
2.500	.563	1.375	11.650	2.875	.313	2.250	8.564
2.500	.625	1.250	12.520	2.875	.375	2.125	10.010
2.500	.750	1.000	14.020	2.875	.438	2.000	11.400
<b>2.505"O.D.</b>				2.875	.500	1.875	12.680
2.505	.313	1.879	7.330	2.875	.563	1.750	13.900
				2.875	.625	1.625	15.020
				2.875	.750	1.375	17.020

**Carbon Mechanical Tubing (cont.)**

O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>2.918" O.D.</b>				<b>3-1/4" O.D.</b>			
2.918	.211	2.496	6.100	3.250	.313	2.625	9.818
<b>3" O.D.</b>				3.250	.344	2.562	10.676
3.000	.049	2.902	1.544	3.250	.375	2.500	11.510
3.000	.065	2.870	2.037	3.250	.438	2.375	13.150
3.000	.083	2.834	2.586	3.250	.500	2.250	14.690
3.000	.095	2.810	2.947	3.250	.563	2.124	16.160
3.000	.120	2.760	3.691	3.250	.625	2.000	17.520
3.000	.156	2.688	4.738	3.250	.660	1.930	18.256
3.000	.180	2.640	5.421	3.250	.750	1.750	20.030
3.000	.188	2.625	5.646	3.250	.875	1.500	22.190
3.000	.219	2.562	6.505	3.250	1.000	1.250	24.030
3.000	.250	2.500	7.343	<b>3-3/8" O.D.</b>			
3.000	.259	2.482	7.580	3.375	.120	3.135	4.172
3.000	.281	2.438	8.160	3.375	.188	3.000	6.399
3.000	.313	2.374	8.982	3.375	.250	2.875	8.344
3.000	.344	2.312	9.750	3.375	.313	2.749	12.240
3.000	.375	2.250	10.510	3.375	.375	2.625	12.020
3.000	.438	2.124	11.980	3.375	.438	2.499	13.740
3.000	.500	2.000	13.350	3.375	.500	2.375	15.350
3.000	.563	1.875	14.650	3.375	.625	2.125	18.360
3.000	.625	1.750	15.850	<b>3.423" O.D.</b>			
3.000	.688	1.625	16.990	3.423	.214	2.995	7.330
3.000	.750	1.500	18.020	<b>3-1/2" O.D.</b>			
3.000	.875	1.250	19.860	3.500	.065	3.370	2.385
3.000	1.000	1.000	21.360	3.500	.083	3.334	3.029
<b>3.006" O.D.</b>				3.500	.095	3.310	3.455
3.006	.438	2.130	12.010	3.500	.120	3.260	4.332
<b>3-1/8" O.D.</b>				3.500	.134	3.232	4.817
3.125	.120	2.885	3.851	3.500	.156	3.188	5.571
3.125	.178	2.769	5.600	3.500	.188	3.125	6.650
3.125	.188	2.750	5.897	3.500	.216	3.068	7.580
3.125	.250	2.625	7.676	3.500	.219	3.063	7.674
3.125	.313	2.499	9.400	3.500	.250	3.000	8.678
3.125	.375	2.375	11.010	3.500	.254	2.992	8.810
3.125	.438	2.250	12.570	3.500	.281	2.938	9.660
3.125	.500	2.125	14.020	3.500	.300	2.900	10.252
3.125	.563	1.999	15.405	3.500	.313	2.875	10.650
3.125	.625	1.875	16.690	3.500	.375	2.750	12.520
3.125	.750	1.625	19.020	3.500	.438	2.625	14.320
3.125	.875	1.375	21.030	3.500	.500	2.500	16.020
<b>3-1/4" O.D.</b>				3.500	.563	2.374	17.660
3.250	.065	3.120	2.211	3.500	.625	2.250	19.190
3.250	.095	3.060	3.201	3.500	.750	2.000	22.030
3.250	.120	3.010	4.011	3.500	.875	1.750	24.530
3.250	.156	2.938	5.155	3.500	1.000	1.500	26.700
3.250	.188	2.874	6.148	<b>3.563" O.D.</b>			
3.250	.219	2.812	7.089	3.563	.272	3.020	9.560
3.250	.250	2.750	8.010				

**Carbon Mechanical Tubing (cont.)**

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>3-5/8" O.D.</b>				<b>4" O.D.</b>			
3.625	.120	3.385	4.492	4.000	.313	3.374	12.330
3.625	.188	3.250	6.901	4.000	.375	3.250	14.520
3.625	.250	3.125	9.011	4.000	.438	3.125	16.660
3.625	.313	3.000	11.070	4.000	.450	3.100	17.060
3.625	.375	2.875	13.020	4.000	.500	3.000	18.690
3.625	.438	2.750	14.910	4.000	.563	2.875	20.670
3.625	.500	2.625	16.690	4.000	.625	2.750	22.530
3.625	.625	2.375	20.030	4.000	.688	2.624	24.337
3.625	.750	2.125	23.030	4.000	.750	2.500	26.030
<b>3.642" O.D.</b>				4.000	.875	2.250	29.200
3.642	.344	2.954	12.120	4.000	1.000	2.000	32.040
<b>3-3/4" O.D.</b>				4.000	1.125	1.750	34.540
3.750	.065	3.620	2.560	4.000	1.250	1.500	36.713
3.750	.120	3.510	4.652	<b>4.005" O.D.</b>			
3.750	.188	3.375	7.152	4.005	.500	3.005	18.720
3.750	.250	3.250	9.345	<b>4.012" O.D.</b>			
3.750	.313	3.125	11.490	4.012	.506	3.000	18.950
3.750	.340	3.070	12.380	<b>4.095" O.D.</b>			
3.750	.375	3.000	13.520	4.095	.180	3.735	7.526
3.750	.438	2.875	15.493	<b>4-1/8" O.D.</b>			
3.750	.500	2.750	17.360	4.125	.250	3.625	10.350
3.750	.563	2.624	19.160	4.125	.313	3.500	12.740
3.750	.625	2.500	20.860	4.125	.375	3.375	15.020
3.750	.688	2.500	22.499	4.125	.438	3.250	17.247
3.750	.750	2.250	24.030	4.125	.500	3.125	19.360
3.750	.875	2.000	26.870	4.125	.625	2.875	23.360
3.750	1.000	1.750	29.370	<b>4.167" O.D.</b>			
<b>3-7/8" O.D.</b>				4.167	.336	3.495	13.750
3.875	.188	3.500	7.403	<b>4-1/4" O.D.</b>			
3.875	.250	3.375	9.679	4.250	.095	4.060	4.216
3.875	.375	3.125	14.020	4.250	.120	4.010	5.293
3.875	.500	2.875	18.020	4.250	.156	3.938	6.810
3.875	.625	2.625	21.690	4.250	.188	3.875	8.156
3.875	.750	2.375	25.030	4.250	.250	3.750	10.680
<b>3.923" O.D.</b>				4.250	.313	3.625	13.160
3.923	.214	3.495	8.480	4.250	.375	3.500	15.520
<b>4" O.D.</b>				4.250	.438	3.375	17.830
4.000	.065	3.870	2.732	4.250	.500	3.250	20.030
4.000	.083	3.834	3.472	4.250	.625	3.000	24.200
4.000	.087	3.826	3.631	4.250	.750	2.750	28.040
4.000	.095	3.810	3.962	4.250	.875	2.500	31.540
4.000	.109	3.782	4.530	4.250	1.000	2.250	34.710
4.000	.120	3.760	4.973	4.250	1.125	2.000	37.550
4.000	.134	3.732	5.533	4.250	1.250	1.750	40.050
4.000	.156	3.688	6.404				
4.000	.180	3.640	7.344				
4.000	.188	3.624	7.654				
4.000	.219	3.562	8.843				
4.000	.250	3.500	10.010				

**Carbon Mechanical Tubing (cont.)**

O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>4-3/8"O.D.</b>				<b>4-3/4"O.D.</b>			
4.375	.188	3.999	8.407	4.750	.120	4.510	5.930
4.375	.284	3.807	12.408	4.750	.188	4.375	9.160
4.375	.313	3.749	13.580	4.750	.250	4.250	12.020
4.375	.375	3.625	16.020	4.750	.313	4.125	14.830
4.375	.500	3.375	20.690	4.750	.375	4.000	17.520
4.375	.625	3.125	25.030	4.750	.385	3.980	17.948
4.375	.750	2.875	29.040	4.750	.500	3.750	22.700
<b>4-1/2"O.D.</b>				4.750	.625	3.500	27.530
4.500	.065	4.370	3.079	4.750	.750	3.250	32.040
4.500	.083	4.334	3.915	4.750	.875	3.000	36.210
4.500	.095	4.310	4.469	4.750	1.000	2.750	40.050
4.500	.120	4.260	5.613	4.750	1.250	2.250	46.730
4.500	.134	4.232	6.284	4.750	1.500	1.750	52.065
4.500	.188	4.124	8.658	<b>4.875"O.D.</b>			
4.500	.219	4.062	10.010	4.875	.375	4.125	18.023
4.500	.237	4.026	10.790	<b>5"O.D.</b>			
4.500	.250	4.000	11.350	5.000	.065	4.870	3.426
4.500	.252	3.996	11.433	5.000	.083	4.834	4.359
4.500	.255	3.990	11.561	5.000	.109	4.782	5.694
4.500	.259	3.982	11.731	5.000	.120	4.760	6.254
4.500	.313	3.875	14.000	5.000	.134	4.732	6.964
4.500	.340	3.820	15.106	5.000	.188	4.624	9.660
4.500	.375	3.750	16.520	5.000	.250	4.500	12.680
4.500	.438	3.624	19.010	5.000	.313	4.375	15.670
4.500	.500	3.500	21.360	5.000	.375	4.250	18.520
4.500	.563	3.375	23.678	5.000	.438	4.125	21.340
4.500	.625	3.250	25.870	5.000	.500	4.000	24.030
4.500	.750	3.000	30.040	5.000	.513	3.974	24.580
4.500	.875	2.750	33.880	5.000	.625	3.750	29.200
4.500	1.000	2.500	37.380	5.000	.750	3.500	34.040
4.500	1.125	2.250	40.550	5.000	.875	3.250	38.550
4.500	1.250	2.000	43.388	5.000	1.000	3.000	42.720
4.500	1.500	1.500	48.060	5.000	1.125	2.750	46.560
<b>4.593"O.D.</b>				5.000	1.250	2.500	50.060
4.593	.177	4.239	8.341	5.000	1.500	2.000	56.070
<b>4-5/8"O.D.</b>				<b>5.105"O.D.</b>			
4.625	.250	4.125	11.680	5.105	.313	4.479	16.050
4.625	.313	4.000	14.410	<b>5-1/8"O.D.</b>			
4.625	.318	3.989	14.630	5.125	.313	4.499	16.090
4.625	.320	3.999	14.706	5.125	.500	4.125	24.700
4.625	.375	3.875	17.020	5.125	.625	3.875	34.040
4.625	.500	3.625	22.030				

**Carbon Mechanical Tubing (cont.)**

O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>5-1/4"O.D.</b>				<b>5-3/4"O.D.</b>			
5.250	.120	5.010	6.575	5.750	.875	4.000	45.560
5.250	.188	4.874	10.160	5.750	1.000	3.750	50.730
5.250	.250	4.750	13.350	5.750	1.250	3.250	60.080
5.250	.313	4.624	16.500	5.750	1.500	2.750	68.085
5.250	.340	4.570	17.830	<b>6"O.D.</b>			
5.250	.375	4.500	19.520	6.000	.065	5.870	4.120
5.250	.500	4.250	25.370	6.000	.075	5.850	4.746
5.250	.625	4.000	30.870	6.000	.083	5.834	5.245
5.250	.750	3.750	36.050	6.000	.109	5.782	6.858
5.250	.875	3.500	40.880	6.000	.120	5.760	7.536
5.250	1.000	3.250	45.390	6.000	.125	5.750	7.843
5.250	1.125	3.000	49.560	6.000	.134	5.732	8.395
5.250	1.250	2.750	53.400	6.000	.180	5.640	11.188
5.250	1.500	2.250	60.075	6.000	.188	5.624	11.670
<b>5.492"O.D.</b>				6.000	.203	5.594	12.559
5.492	.234	5.024	13.140	6.000	.250	5.500	15.350
<b>5-1/2"O.D.</b>				6.000	.313	5.374	19.010
5.500	.065	5.370	3.773	6.000	.375	5.250	22.530
5.500	.083	5.334	4.795	6.000	.500	5.000	29.370
5.500	.120	5.260	6.895	6.000	.625	4.750	35.880
5.500	.188	5.124	10.670	6.000	.750	4.500	42.050
5.500	.250	5.000	14.020	6.000	.875	4.250	47.890
5.500	.313	4.875	17.340	6.000	1.000	4.000	53.400
5.500	.375	4.750	20.530	6.000	1.125	3.750	58.570
5.500	.438	4.625	23.680	6.000	1.250	3.500	63.410
5.500	.500	4.500	26.700	6.000	1.500	3.000	72.090
5.500	.625	4.250	32.540	6.000	1.750	2.500	79.433
5.500	.750	4.000	38.050	6.000	2.000	2.000	85.440
5.500	.875	3.750	43.220	<b>6.159"O.D.</b>			
5.500	1.000	3.500	48.060	6.159	.220	5.719	13.950
5.500	1.250	3.000	56.740	<b>6-1/4"O.D.</b>			
5.500	1.500	2.500	64.080	6.250	.120	6.010	7.856
<b>5-5/8"O.D.</b>				6.250	.250	5.750	16.020
5.625	.313	5.000	17.760	6.250	.375	5.500	23.530
5.625	.625	4.375	33.380	6.250	.500	5.250	30.710
<b>5-3/4"O.D.</b>				6.250	.625	5.000	37.550
5.750	.129	5.492	7.215	6.250	.750	4.750	44.060
5.750	.188	5.374	11.168	6.250	.875	4.500	50.230
5.750	.250	5.250	14.690	6.250	1.000	4.250	56.070
5.750	.313	5.125	18.180	6.250	1.125	4.000	61.580
5.750	.375	5.000	21.530	6.250	1.250	3.750	66.750
5.750	.385	4.980	22.060	6.250	1.500	3.250	76.095
5.750	.389	4.972	22.272				
5.750	.500	4.750	28.040				
5.750	.510	4.730	28.541				
5.750	.625	4.500	34.210				
5.750	.750	4.250	40.050				

**Carbon Mechanical Tubing (cont.)**

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>6-1/2"O.D.</b>				<b>7"O.D.</b>			
6.500	.188	6.124	12.670	7.000	.515	5.970	35.670
6.500	.250	6.000	16.690	7.000	.625	5.750	42.550
6.500	.375	5.750	24.530	7.000	.750	5.500	50.060
6.500	.500	5.500	32.040	7.000	.784	5.432	57.120
6.500	.625	5.250	39.220	7.000	.875	5.250	57.240
6.500	.750	5.000	46.060	7.000	1.000	5.000	64.080
6.500	.875	4.750	52.570	7.000	1.125	4.750	70.590
6.500	1.000	4.500	58.740	7.000	1.250	4.500	76.760
6.500	1.250	4.000	70.090	7.000	1.500	4.000	88.110
6.500	1.500	3.500	80.100	7.000	1.750	3.500	98.123
6.500	1.750	3.000	88.778	7.000	2.000	3.000	106.800
6.500	2.000	2.500	96.120	<b>7.035"O.D.</b>			
<b>6-5/8"O.D.</b>				7.035	1.014	5.007	65.204
6.625	.109	6.407	7.585	<b>7-1/4"O.D.</b>			
6.625	.120	6.385	8.337	7.250	.250	6.750	18.690
6.625	.125	6.375	8.678	7.250	.375	6.500	27.530
6.625	.134	6.357	9.289	7.250	.500	6.250	36.050
6.625	.280	6.065	18.970	7.250	.625	6.000	44.220
6.625	.313	6.000	21.100	7.250	.645	5.960	45.500
6.625	.562	5.501	36.430	7.250	.750	5.750	52.070
6.625	.719	5.501	45.390	7.250	1.000	5.250	66.750
6.625	.864	4.897	53.210	7.250	1.125	5.000	73.590
<b>6.718"O.D.</b>				7.250	1.250	4.750	80.100
6.718	.250	6.218	17.270	7.250	1.500	4.250	92.115
<b>6-3/4"O.D.</b>				<b>7-1/2"O.D.</b>			
6.750	.250	6.250	17.360	7.500	.250	7.000	19.360
6.750	.375	6.000	25.530	7.500	.375	6.750	28.540
6.750	.389	5.972	26.420	7.500	.500	6.500	37.380
6.750	.500	5.750	33.380	7.500	.625	6.250	45.890
6.750	.625	5.500	40.880	7.500	.750	6.000	54.070
6.750	.655	5.440	42.640	7.500	1.000	5.500	69.420
6.750	.750	5.250	48.060	7.500	1.250	5.000	83.440
6.750	.875	5.000	54.900	7.500	1.500	4.500	96.120
6.750	1.000	4.750	61.410	7.500	1.750	4.000	107.468
6.750	1.250	4.250	73.430	7.500	2.000	3.500	117.480
6.750	1.500	3.750	84.105	<b>7-5/8"O.D.</b>			
<b>7"O.D.</b>				7.625	.500	6.625	38.080
7.000	.059	6.882	4.374	7.625	.875	5.875	63.140
7.000	.060	6.880	4.447	<b>7-3/4"O.D.</b>			
7.000	.075	6.850	5.547	7.750	.188	7.374	15.183
7.000	.109	6.782	8.022	7.750	.250	7.250	20.030
7.000	.125	6.750	9.178	7.750	.375	7.000	29.540
7.000	.134	6.732	9.826	7.750	.500	6.750	38.720
7.000	.188	6.624	13.680	7.750	.625	6.500	47.560
7.000	.250	6.500	18.020	7.750	.641	6.468	38.850
7.000	.375	6.250	26.530	7.750	.750	6.250	56.070
7.000	.500	6.000	34.710	7.750	1.000	5.750	72.090

**Carbon Mechanical Tubing (cont.)**

O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>7-3/4"O.D.</b>				<b>8-1/2"O.D.</b>			
7.500	1.250	5.250	86.780	8.500	1.750	5.000	126.158
7.500	1.500	4.750	100.100	8.500	2.000	4.500	138.840
<b>8"O.D.</b>				8.500	2.500	3.500	160.200
8.000	.059	7.882	5.004	<b>8-5/8"O.D.</b>			
8.000	.065	7.870	5.510	8.625	.109	8.407	9.914
8.000	.075	7.850	6.348	8.625	.134	8.357	12.150
8.000	.083	7.834	7.018	8.625	.500	7.625	43.430
8.000	.109	7.782	9.186	8.625	.594	7.437	51.00
8.000	.120	7.760	10.100	8.625	.719	7.187	60.770
8.000	.125	7.750	10.510	8.625	.812	7.001	67.820
8.000	.134	7.732	11.260	8.625	.875	6.875	72.490
8.000	.188	7.624	15.690	8.625	.906	6.813	74.760
8.000	.250	7.500	20.690	<b>8-3/4"O.D.</b>			
8.000	.375	7.250	30.540	8.750	.375	8.000	33.540
8.000	.500	7.000	40.050	8.750	.500	7.750	44.060
8.000	.625	6.750	49.230	8.750	.750	7.250	64.080
8.000	.750	6.500	58.070	8.750	1.000	6.750	82.770
8.000	.875	6.250	66.580	8.750	1.250	6.250	100.100
8.000	1.000	6.000	74.760	8.750	1.500	5.750	116.100
8.000	1.125	5.750	82.600	8.750	2.000	4.750	144.180
8.000	1.250	5.500	90.110	<b>9"O.D.</b>			
8.000	1.375	5.250	97.290	9.000	.250	8.500	23.360
8.000	1.500	5.000	104.100	9.000	.375	8.250	34.540
8.000	1.750	4.500	116.813	9.000	.500	8.000	45.390
8.000	2.000	4.000	128.160	9.000	.625	7.750	55.900
8.000	2.250	3.500	138.173	9.000	.750	7.500	66.080
8.000	2.500	3.000	146.850	9.000	.779	7.442	68.400
<b>8-1/4"O.D.</b>				9.000	1.000	7.000	85.440
8.250	.250	7.750	21.360	9.000	1.250	6.500	103.500
8.250	.375	7.500	31.540	9.000	1.375	6.250	111.970
8.250	.500	7.250	41.390	9.000	1.500	6.000	120.200
8.250	.625	7.000	50.900	9.000	1.750	5.500	135.503
8.250	.647	6.956	52.540	9.000	2.000	5.000	149.520
8.250	.750	6.750	60.080	9.000	2.250	4.500	162.203
8.250	1.000	6.250	77.430	9.000	2.500	4.000	173.550
8.250	1.125	6.000	85.610	9.000	3.000	3.000	192.240
8.250	1.250	5.750	93.450	<b>9-1/4"O.D.</b>			
8.250	1.500	5.250	108.100	9.250	.250	8.750	24.030
<b>8-1/2"O.D.</b>				9.250	.375	8.500	35.540
8.500	.250	8.000	22.030	9.250	.500	8.250	46.730
8.500	.375	7.750	32.540	9.250	.625	8.000	57.570
8.500	.500	7.500	42.720	9.250	.750	7.750	68.090
8.500	.625	7.250	52.570	9.250	1.000	7.250	88.110
8.500	.750	7.000	62.080	9.250	1.250	6.750	106.800
8.500	.779	6.942	64.240	9.250	1.500	6.250	124.200
8.500	1.000	6.500	80.100				
8.500	1.250	6.00	96.790				
8.500	1.313	5.874	100.800				
8.500	1.500	5.500	112.100				

**Carbon Mechanical Tubing (cont.)**

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>9-1/2"O.D.</b>				<b>10-1/4"O.D.</b>			
9.500	.250	9.000	24.700	10.250	1.500	7.250	140.200
9.500	.339	8.822	33.188	<b>10-1/2"O.D.</b>			
9.500	.375	8.750	36.550	10.500	.250	10.000	27.370
9.500	.500	8.500	48.060	10.500	.375	9.750	40.550
9.500	.750	8.000	70.090	10.500	.500	9.500	53.400
9.500	.767	7.966	71.537	10.500	.750	9.000	78.100
9.500	.904	7.692	83.000	10.500	1.000	8.500	101.500
9.500	1.000	7.500	90.780	10.500	1.250	8.000	123.500
9.500	1.125	7.250	100.600	10.500	1.500	7.500	144.200
9.500	1.250	7.000	110.100	10.500	1.750	7.000	163.538
9.500	1.500	6.500	128.200	10.500	2.000	6.500	181.560
9.500	1.750	6.000	144.848	10.500	2.500	5.500	213.600
9.500	2.000	5.500	160.200	10.500	3.000	4.500	240.300
<b>9-5/8"O.D.</b>				<b>10-3/4"O.D.</b>			
9.625	.500	8.625	48.770	10.750	.134	10.482	15.190
<b>9-3/4"O.D.</b>				10.750	.250	10.250	28.040
9.750	.250	9.250	25.365	10.750	.375	10.000	41.550
9.750	.500	8.750	49.400	10.750	.500	9.750	54.740
9.750	.750	8.250	72.090	10.750	.594	9.562	64.490
9.750	1.000	7.750	93.450	10.750	.719	9.312	77.100
9.750	1.250	7.250	113.250	10.750	.750	9.250	80.100
9.750	1.500	6.750	132.200	10.750	.844	9.062	89.380
<b>10"O.D.</b>				10.750	1.000	8.750	104.100
10.000	.075	9.850	7.950	10.750	1.125	8.500	115.750
10.000	.083	9.834	8.790	10.750	1.250	8.250	126.830
10.000	.109	9.782	11.510	10.750	1.500	7.750	148.200
10.000	.125	9.750	13.180	10.750	1.750	7.250	168.210
10.000	.134	9.732	14.120	10.750	2.000	6.750	186.900
10.000	.188	9.624	19.700	10.750	2.500	5.750	220.275
10.000	.250	9.500	26.033	<b>11"O.D.</b>			
10.000	.375	9.250	38.550	11.000	.250	10.500	28.700
10.000	.500	9.000	50.730	11.000	.500	10.000	56.070
10.000	.750	8.500	74.090	11.000	.750	9.500	82.103
10.000	1.000	8.000	96.120	11.000	1.000	9.000	106.800
10.000	1.125	7.750	106.600	11.000	1.250	8.500	130.163
10.000	1.250	7.500	116.800	11.000	1.500	8.000	152.190
10.000	1.500	7.000	136.200	11.000	1.750	7.500	172.883
10.000	1.750	6.500	154.193	11.000	2.000	7.000	192.240
10.000	2.000	6.000	170.880	11.000	2.500	6.000	226.950
10.000	2.250	5.500	186.233	11.000	3.000	5.000	256.320
10.000	2.500	5.000	200.250	<b>11-1/4"O.D.</b>			
10.000	3.000	4.000	224.280	11.250	.500	10.250	57.405
<b>10-1/4"O.D.</b>				11.250	.750	9.750	84.105
10.250	.500	9.250	52.070	11.250	1.000	9.250	109.470
10.250	.750	8.750	76.100	11.250	1.250	8.750	133.500
10.250	1.000	8.250	98.790	11.250	1.500	8.250	156.195
10.250	1.250	7.750	120.200				

**Carbon Mechanical Tubing (cont.)**

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>11-1/2"O.D.</b>				<b>12-1/2"O.D.</b>			
11.500	.500	10.500	58.740	12.500	.500	11.500	64.080
11.500	.750	10.000	86.108	12.500	.750	11.000	94.118
11.500	1.000	9.500	112.140	12.500	1.000	10.500	122.820
11.500	1.250	9.000	136.838	12.500	1.250	10.000	150.188
11.500	1.500	8.500	160.200	12.500	1.500	9.500	176.220
11.500	1.750	8.000	182.228	12.500	1.750	9.000	200.918
11.500	2.000	7.500	202.920	12.500	2.000	8.500	224.280
11.500	2.500	6.500	240.300	12.500	2.500	7.500	267.000
<b>11-3/4"O.D.</b>				<b>12-3/4"O.D.</b>			
11.750	.500	10.750	60.080	12.750	.500	11.750	65.420
11.750	.844	10.062	98.310	12.750	.562	11.626	73.220
11.750	.900	9.950	104.290	12.750	.688	11.374	88.710
11.750	1.000	9.750	114.810	12.750	.844	11.062	107.420
11.750	1.250	9.250	140.210	12.750	1.000	10.750	125.610
11.750	1.750	8.250	186.900	12.750	1.125	10.500	139.670
11.750	2.500	6.750	246.975	12.750	1.312	10.126	160.420
<b>12"O.D.</b>				12.750	1.500	9.750	180.230
12.000	.109	11.782	13.840	12.750	1.750	9.250	205.590
12.000	.134	11.732	16.980	12.750	2.000	8.750	229.620
12.000	.188	11.624	23.720	<b>13"O.D.</b>			
12.000	.250	11.500	31.373	13.000	.500	12.000	66.750
12.000	.375	11.250	46.558	13.000	.750	11.500	98.123
12.000	.500	11.000	61.410	13.000	1.000	11.000	128.160
12.000	.625	10.750	75.928	13.000	1.250	10.500	156.863
12.000	.750	10.500	90.113	13.000	1.500	10.000	184.230
12.000	1.000	10.000	117.480	13.000	1.750	9.500	210.263
12.000	1.040	9.917	128.470	13.000	2.000	9.000	234.960
12.000	1.250	9.500	143.513	13.000	2.500	8.000	280.350
12.000	1.313	9.374	149.760	13.000	3.000	7.000	320.400
12.000	1.500	9.000	168.210	<b>13-3/8"O.D.</b>			
12.000	1.750	8.500	191.573	13.375	.500	12.375	68.753
12.000	2.000	8.000	213.600	13.375	.750	11.875	101.126
12.000	2.250	7.500	234.293	13.375	1.000	11.375	132.165
12.000	2.500	7.000	253.650	13.375	1.250	10.875	161.869
12.000	3.000	6.000	288.360	13.375	1.500	10.375	190.238
<b>12-1/8"O.D.</b>				13.375	2.000	9.375	242.970
12.125	.375	11.375	47.059	<b>14"O.D.</b>			
<b>12-1/4"O.D.</b>				14.000	.109	13.782	16.170
12.250	.750	10.750	92.115	14.000	.134	13.732	19.840
12.250	1.000	10.250	120.150	14.000	.500	13.000	72.160
12.250	1.125	10.000	133.667	14.000	.594	12.812	85.130
12.250	1.250	9.750	146.850	14.000	.750	12.500	106.230
12.250	1.413	9.424	163.530	14.000	.938	12.124	130.980
12.250	1.500	9.250	172.215	14.000	1.094	11.812	150.930
12.250	2.000	8.250	218.940	14.000	1.250	11.500	170.370
				14.000	1.406	11.188	189.290
				14.000	1.500	11.000	200.250

**Carbon Mechanical Tubing (cont.)**

O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>14"O.D.</b>				<b>16"O.D.</b>			
14.000	1.750	10.500	228.950	16.000	2.250	11.500	330.413
14.000	2.000	10.000	256.320	16.000	2.500	11.000	360.450
14.000	2.250	9.500	282.350	16.000	2.875	10.250	403.003
14.000	2.500	8.250	307.050	16.000	3.000	10.000	416.520
14.000	2.875	8.000	341.593	<b>16-1/2"O.D.</b>			
14.000	3.000	8.000	352.440	16.500	.500	15.500	85.440
14.000	3.500	7.000	392.490	16.500	.750	15.000	126.158
<b>14-3/8"O.D.</b>				16.500	1.000	14.500	165.540
14.375	.500	13.375	74.093	16.500	1.250	14.000	203.588
14.375	.750	12.875	109.136	16.500	1.500	13.500	240.300
14.375	1.000	12.375	142.845	16.500	2.000	12.500	309.720
14.375	1.250	11.875	175.219	<b>17"O.D.</b>			
14.375	1.500	11.375	206.258	17.000	.500	16.000	88.110
14.375	2.000	10.375	264.330	17.000	.750	15.500	130.163
14.375	2.500	9.375	317.063	17.000	1.000	15.000	170.880
<b>15"O.D.</b>				17.000	1.250	14.500	210.263
15.000	.375	14.250	58.573	17.000	1.500	14.000	248.310
15.000	.500	14.000	77.430	17.000	2.000	13.000	320.400
15.000	.750	13.500	114.143	17.000	2.500	12.000	387.150
15.000	1.000	13.000	149.520	17.000	2.875	11.250	433.708
15.000	1.250	12.500	183.563	<b>17-1/2"O.D.</b>			
15.000	1.500	12.000	216.270	17.500	.750	16.000	134.168
15.000	1.750	11.500	247.643	17.500	1.000	15.500	176.220
15.000	2.000	11.000	277.680	17.500	1.250	15.000	216.938
15.000	2.250	10.500	300.375	17.500	1.500	14.500	256.320
15.000	2.500	10.000	333.750	17.500	2.000	13.500	331.080
15.000	2.875	9.250	372.298	<b>17-3/4"O.D.</b>			
15.000	3.000	9.000	384.480	17.750	2.875	12.000	456.737
<b>15-1/2"O.D.</b>				<b>18"O.D.</b>			
15.500	.500	14.500	80.100	18.000	.500	17.000	93.540
15.500	.750	14.000	118.148	18.000	.562	16.876	104.760
15.500	1.000	13.500	154.860	18.000	.625	16.750	116.080
15.500	1.250	13.000	190.238	18.000	.750	16.500	138.300
15.500	1.500	12.500	224.280	18.000	.938	16.124	171.080
15.500	1.750	12.000	256.988	18.000	1.156	15.688	208.150
15.500	2.000	11.500	288.360	18.000	1.375	15.250	244.150
15.500	2.500	10.500	347.100	18.000	1.562	14.876	274.200
<b>16"O.D.</b>				18.000	1.781	14.438	308.500
16.000	.109	15.782	18.500	18.000	2.000	14.000	341.760
16.000	.500	15.000	82.850	18.000	2.500	13.000	413.850
16.000	.656	14.688	107.600	18.000	2.875	12.250	464.413
16.000	.844	14.312	136.740	<b>18-1/2"O.D.</b>			
16.000	1.031	13.938	164.980	18.500	.750	17.000	142.178
16.000	1.219	13.562	192.610	18.500	1.000	16.500	186.900
16.000	1.438	13.124	223.850	18.500	1.250	16.000	230.288
16.000	1.594	12.812	245.480	18.500	1.500	15.500	272.340
16.000	1.750	12.500	266.330	18.500	2.000	14.500	352.440
16.000	2.000	12.000	299.040				

**Carbon Mechanical Tubing**

O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)	O.D. (In.)	Wall (In.)	I.D. (In.)	Wt./Ft. (lbs.)
<b>19"O.D.</b>				<b>24"O.D.</b>			
19.000	.109	18.782	21.990	24.000	.500	23.000	125.610
19.000	.500	18.000	98.790	24.000	.688	22.624	171.450
19.000	.750	17.500	146.183	24.000	.750	22.500	186.200
19.000	1.000	17.000	192.240	24.000	.969	22.064	238.570
19.000	1.250	16.500	236.963	24.000	1.219	21.562	296.580
19.000	1.500	16.000	280.350	24.000	1.531	20.938	367.400
19.000	1.750	15.500	322.403	24.000	1.812	20.376	429.400
19.000	2.000	15.000	363.120	24.000	2.062	19.876	483.100
19.000	2.500	14.000	440.550	24.000	2.343	19.314	541.900
19.000	3.000	13.000	512.640	24.000	2.500	19.000	574.050
<b>20"O.D.</b>				24.000	3.000	18.000	672.840
20.000	.500	19.000	104.230	<b>26"O.D.</b>			
20.000	.594	18.812	123.230	26.000	1.000	24.000	267.000
20.000	.625	18.750	129.450	26.000	1.500	23.000	392.490
20.000	.750	18.500	154.330	26.000	2.000	22.000	512.640
20.000	.812	18.376	166.560	26.000	3.000	20.000	736.920
20.000	1.031	17.938	209.060				
20.000	1.281	17.438	256.340				
20.000	1.500	17.000	296.400				
20.000	1.750	16.500	341.100				
20.000	1.968	16.064	379.000				
20.000	2.500	15.000	467.250				
20.000	3.000	14.000	544.680				
<b>21"O.D.</b>							
21.000	.750	19.500	162.203				
21.000	1.000	19.000	213.600				
21.000	1.500	18.000	312.390				
21.000	1.750	17.500	359.783				
21.000	2.000	17.000	405.840				
21.000	2.500	16.000	493.950				
21.000	3.000	15.000	576.720				
<b>22"O.D.</b>							
22.000	.500	21.000	114.920				
22.000	.750	20.500	170.370				
22.000	.875	20.250	197.600				
22.000	1.000	20.000	224.280				
22.000	1.125	19.750	251.050				
22.000	1.500	19.000	328.410				
22.000	2.000	18.000	427.200				
22.000	2.500	17.000	520.650				
22.000	3.000	16.000	608.760				
<b>23"O.D.</b>							
23.000	.750	21.500	178.223				
23.000	1.000	21.000	234.960				
23.000	1.500	20.000	344.430				
23.000	2.000	19.000	448.560				
23.000	3.000	17.000	640.800				

## Decimal Equivalents

$1/64$	.0156	$37/64$	.5781
$1/32$	.0312	$19/32$	.5937
$3/64$	.0468	$39/64$	.6094
$1/16$	.0625	$5/8$	.625
$5/64$	.0781	$41/64$	.6406
$3/32$	.0937	$21/32$	.6562
$7/16$	.1094	$43/64$	.6719
$1/8$	.125	$11/16$	.6875
$9/64$	.1406	$45/64$	.7031
$5/32$	.1562	$23/32$	.7187
$11/64$	.1719	$47/64$	.7344
$3/16$	.1875	$3/4$	.75
$13/64$	.2031	$49/64$	.7656
$7/32$	.2187	$25/32$	.7812
$17/64$	.2344	$51/64$	.7969
$1/4$	.25	$13/16$	.8125
$17/64$	.2656	$53/64$	.8281
$9/32$	.2812	$27/32$	.8437
$19/64$	.2969	$27/32$	.8437
$5/16$	.3125	$55/64$	.8594
$21/64$	.3281	$7/8$	.875
$11/32$	.3437	$57/64$	.8906
$23/64$	.3594	$29/32$	.9062
$3/8$	.375	$59/64$	.9219
$25/64$	.3906	$15/16$	.9375
$13/32$	.4062	$61/64$	.9531
$27/64$	.4219	$31/32$	.9687
$7/16$	.4375	<b>1</b>	1.0
$29/64$	.4531		
$15/32$	.4687		
$31/64$	.4844		
$1/2$	.5		
$33/64$	.5156		
$17/32$	.5312		
$35/64$	.5469		
$9/16$	.5625		

## Hardness Conversions

Brinell		Vickers Diam. Pyramid (50 Kg. Load)	Rockwell		Shore	Tensile Strength (x 1000 psi)
Dia.(mm.) 3000Kg 10mm. Carbide Ball	Hardness Number		C Scale 150 Kg. Brale	B Scale 150 Kg. 1/16" Ball		
2.25	745	840	65.3	----	91	----
2.30	712	----	----	----	----	----
2.35	682	737	61.7	----	84	----
2.40	653	697	60.0	----	81	----
2.45	627	667	58.7	----	79	----
2.50	601	640	57.3	----	77	----
2.55	578	615	56.0	----	75	----
2.60	555	591	54.7	----	73	298
2.65	534	569	53.5	----	71	288
2.70	514	547	52.1	----	70	274
2.75	495	528	51.0	----	68	264
2.80	477	508	49.6	----	66	252
2.85	461	491	48.5	----	65	242
2.90	444	472	47.1	----	63	230
2.95	429	455	45.7	----	61	219
3.00	415	440	44.5	----	59	212
3.05	401	425	43.1	----	58	202
3.10	388	410	41.8	----	56	193
3.15	375	396	40.4	----	54	184
3.20	363	383	39.1	----	52	177
3.25	352	372	37.9	(110.0)	51	171
3.30	341	360	36.6	(109.0)	50	164
3.35	331	350	35.5	(108.5)	48	159
3.40	321	339	34.3	(108.0)	47	154
3.45	311	328	33.1	(107.5)	46	149
3.50	302	319	32.1	(107.0)	45	146
3.55	293	309	30.9	(106.0)	43	141
3.60	285	301	29.9	(105.5)	----	138
3.65	277	292	28.8	(104.5)	41	134
3.70	269	284	27.6	(104.0)	40	130
3.75	262	276	26.6	(103.0)	39	127
3.80	255	269	25.4	(102.0)	38	123
3.85	248	261	24.2	(101.0)	37	120
3.90	241	253	22.8	(100.0)	36	116

**Hardness Conversions (cont.)**

Brinell		Vickers Diam. Pyramid (50 Kg. Load)	Tensile		Shore	Tensile Strength (x 1000 psi)
Dia.(mm.) 3000Kg 10mm. Carbide Ball	Hardness Number		C Scale 150 Kg. Brale	B Scale 150 Kg. 1/16" Ball		
3.95	235	247	21.7	99.0	35	114
4.00	229	241	20.5	98.2	34	111
4.05	223	234	(18.8)	97.3	----	----
4.10	217	228	(17.5)	96.4	33	105
4.15	212	222	(16.0)	95.5	----	102
4.20	207	218	(15.2)	94.6	32	100
4.25	201	212	(13.8)	93.8	31	98
4.30	197	207	(12.7)	92.8	30	95
4.35	192	202	(11.5)	91.9	29	93
4.40	187	196	(10.0)	90.7	----	90
4.45	183	192	(9.0)	90.0		
4.50	179	188	(8.0)	89.0	27	87
4.55	174	182	(6.4)	87.8	----	85
4.60	170	178	(5.4)	86.8	26	83
4.65	167	175	(4.4)	86.0	----	81
4.70	163	171	(3.3)	85.0	25	79
4.80	156	163	(0.9)	82.9	----	76
4.90	149	156	----	80.8	23	73
5.00	143	150	----	78.7	22	71
5.10	137	143	----	76.4	21	67

## Gages - HR, CR & Galv.

Gage #	Hot Rolled, HR P&O, Cold Rolled				Galvanized		
	Decimal Equiv.	Tolerance Range		Lbs. Per Sq. Ft.	Decimal Equiv.	Tolerance Range	Lbs. Per Sq. Ft.
		HR, P&O	CR				
4	.2242	.2332 .2152		9.375			
5	.2092	.2182 .2002		8.750			
6	.1943	.2033 .1853		8.125			
7	.1793	.1873 .1713	.1873 .1713	7.500			
8	.1644	.1724 .1564	.1724 .1564	6.875	.1681	.1771 .1591	7.031
9	.1495	.1575 .1415	.1575 .1415	6.250	.1532	.1622 .1442	6.406
10	.1345	.1425 .1265	.1405 .1285	5.625	.1382	.1472 .1292	5.781
11	.1196	.1276 .1116	.1256 .1136	5.000	.1233	.1323 .1143	5.156
12	.1046	.1126 .0966	.1106 .0986	4.375	.1084	.1174 .0994	4.531
13	.0897	.0967 .0827	.0947 .0847	3.750	.0934	.1014 .0854	3.906
14	.0747	.0817 .0677	.0797 .0697	3.125	.0785	.0865 .0705	3.281
15	.0673	.0733 .0613	.0723 .0623	2.813	.0710	.0770 .0650	2.969
16	.0598	.0658 .0538	.0648 .0548	2.500	.0635	.0695 .0575	2.656
17	.0538	.0598 .0478	.0578 .0498	2.250	.0575	.0625 .0525	2.406
18	.0478	.0528 .0428	.0518 .0438	2.000	.0516	.0566 .0466	2.156
19	.0418		.0458 .0378	1.750	.0456	.0506 .0406	1.906
20	.0359		.0389 .0329	1.500	.0396	.0436 .0356	1.656

### Gages - HR, CR & Galv.

Gage #	Hot Rolled, HR P&O, Cold Rolled			Galvanized			
	Decimal Equiv.	Tolerance Range		Lbs. Per Sq. Ft.	Decimal Equiv.	Tolerance Range	Lbs. Per Sq. Ft.
		HR, P&O	CR				
21	.0329	.0359 .0299	1.375	.0366	.0406 .0326	1.531	
22	.0299	.0329 .0269	1.250	.0336	.0376 .0296	1.406	
23	.0269	.0299 .0239	1.125	.0306	.0346 .0266	1.281	
24	.0239	.0269 .0209	1.000	.0276	.0316 .0236	1.156	
25	.0209	.0239 .0179		.0247	.0287 .0207	1.031	
26	.0179	.0199 .0159		.0217	.0247 .0187	.906	
27	.0164	.0184 .0144		.0202	.0232 .0172	.844	
28	.0149	.0169 .0129		.0187	.0217 .0157	.781	
29				.0172	.0202 .0142	.719	
30				.0157	.0187 .0127	.656	

## Aluminum Sheet Thickness Tolerances

NOM. THICK.	18.01-36.00		36.01-48.00		54.01-60.00		WT. PER SQ. FT.	
	1100	2024	1100	2024	1100	2024		
	3003	5052	3003	5052	3003	5052		
	3105	6061	3105	6061	3105	6061		
	5005	7075	5005	7075	5005	7075		
<b>.025</b>	.002	.002	.0025	.0025	.003	.004	<b>.3492</b>	<b>.3564</b>
							<b>.3528</b>	<b>.3636</b>
<b>.032</b>	.002	.002	.0025	.0025	.0035	.005	<b>.4472</b>	<b>.4564</b>
							<b>.4518</b>	<b>.4656</b>
<b>.040</b>	.0025	.0025	.003	.003	.004	.005	<b>.5587</b>	<b>.5702</b>
							<b>.5645</b>	<b>.5818</b>
<b>.050</b>	.003	.003	.004	.004	.005	.006	<b>.6984</b>	<b>.7128</b>
							<b>.7056</b>	<b>.7272</b>
<b>.063</b>	.003	.003	.004	.004	.006	.006	<b>.8798</b>	<b>.8979</b>
							<b>.8889</b>	<b>.9161</b>
<b>.071</b>	.003	.0035	.004	.004	.006	.006	<b>.9894</b>	<b>1.010</b>
							<b>.9996</b>	<b>1.030</b>
<b>.080</b>	.003	.0035	.004	.004	.006	.006	<b>1.116</b>	<b>1.139</b>
							<b>1.127</b>	<b>1.162</b>
<b>.090</b>	.003	.0035	.004	.004	.006	.006	<b>1.261</b>	<b>1.287</b>
							<b>1.274</b>	<b>1.313</b>
<b>.100</b>	.004	.004	.005	.005	.007	.007	<b>1.397</b>	<b>1.426</b>
							<b>1.411</b>	<b>1.454</b>
<b>.125</b>	.0045	.0045	.005	.005	.007	.007	<b>1.746</b>	<b>1.782</b>
							<b>1.764</b>	<b>1.818</b>
<b>.160</b>	.006	.006	.008	.008	.009	.009	<b>2.658</b>	<b>2.713</b>
							<b>2.685</b>	<b>2.767</b>
<b>.190</b>	.007	.007	.009	.011	.011	.011	<b>2.231</b>	<b>2.277</b>
							<b>2.254</b>	<b>2.323</b>

## Stainless Sheet Thickness Tolerances

GAGE #	DECIMAL EQUIV.	TOLERANCE (+,-)	POUNDS PER SQ.FT.	
			300	400
7	.1874	.007	7.87	7.72
8	.1650	.007	6.93	6.80
10	.1350	.006	5.67	5.56
11	.1200	.005	5.04	4.94
12	.1054	.005	4.43	4.34
13	.0900	.004	3.78	3.70
14	.0751	.004	3.15	3.09
16	.0595	.003	2.50	2.45
18	.0480	.003	2.02	1.98
19	.0420	.003	1.76	1.73
20	.0355	.002	1.49	1.46
22	.0293	.002	1.23	1.21
24	.0235	.0015	.987	.968
26	.0178	.0015	.748	.733
28	.0151	.0015	.634	.622