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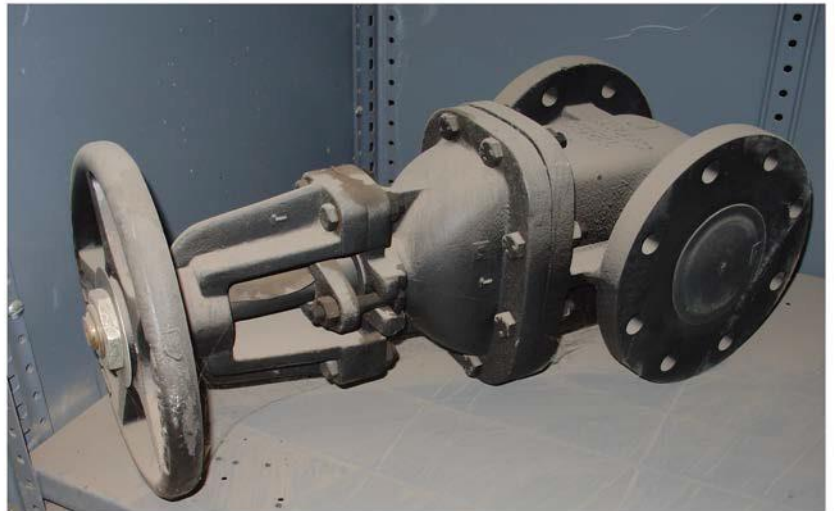
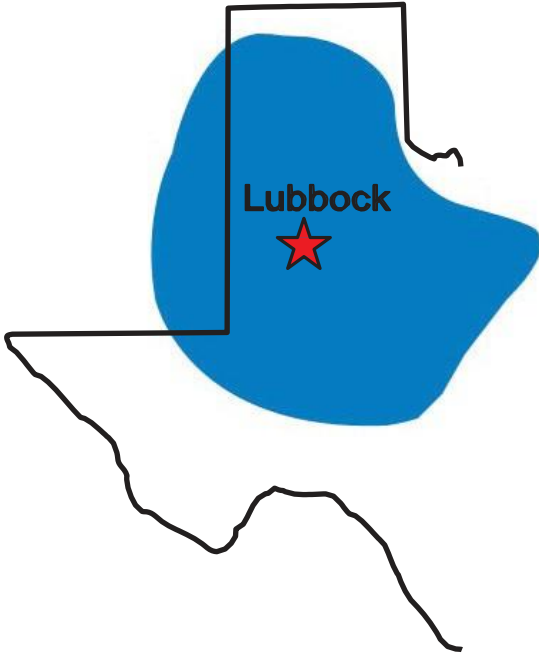


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ANGLE.....	1	BAR CHANNEL A-36 20'.....	5
ALUMINUM.....	1	JR CHANNEL A-36 20'/40'.....	6
ALUMINUM ANGLE 6061-TB 25'.....	1	MC CHANNEL A-36 20'/40'.....	6
ALUMINUM ARCH. ANGLE 6061-TB 16'.....	1	STRUCTURAL CHANNEL A-36 20'/40'.....	6
CARBON STEEL.....	1	GALVANIZED.....	6
ANGLE A-36 20'/40'.....	1	GALVANIZED BAR CHANNEL A-36 20'.....	6
PRIMED ANGLE A-36 20'.....	2	GALVANIZED CHANNEL A-36 20'.....	6
COR-TEN ANGLE.....	2	EXPANDED AND FLAT METAL.....	6
GALVANIZED.....	2	ALUMINUM.....	6
GALVANIZED ANGLE A-36 20'.....	2	ALUMINUM EXPANDED METAL 5005 H-34.....	6
STAINLESS.....	2	CARBON STEEL.....	6
STAINLESS ANGLE T-304 20'.....	2	EXPANDED METAL.....	6
BAR GRATING.....	2	GRATE-X.....	7
ALUMINUM.....	2	GALVANIZED.....	7
ALUMINUM SERRATED BAR GRATING.....	2	FLAT METAL.....	7
ALUMINUM I-BAR GRATING.....	2	GALVANIZED EXPANDED METAL.....	7
CARBON STEEL.....	2	GALVANIZED FLAT METAL.....	7
BAR GRATING CLIPS.....	2	STAINLESS.....	7
UNPAINTED BAR GRATING.....	2	STAINLESS EXPANDED METAL T-304.....	7
BAR GRATING 19-W4.....	2	STAINLESS FLAT METAL T-304.....	7
UNPAINTED SERR. BAR GRATING.....	3	STAINLESS FLAT METAL T-316.....	7
SERRATED BAR GRATING 19-W4.....	3	FITTINGS.....	7
GALVANIZED BAR GRATING 19-W4.....	3	CARBON STEEL.....	7
BEAM.....	3	45° ELBOWS-STANDARD BW.....	7
ALUMINUM.....	3	45° ELBOWS-EXTRA STRONG BW.....	7
ALUMINUM I BEAM 6061-T6.....	3	90° ELBOWS-SHORT RADIUS STD BW.....	8
CARBON STEEL.....	3	90° ELBOWS-SHORT RADIUS XST BW.....	8
I BEAM A-36 20'/40'.....	3	90° ELBOWS-LONG RADIUS STD BW.....	8
JR BEAM A-36 20'.....	3	90° ELBOWS-LONG RADIUS XST BW.....	8
WF BEAM A-36 20'/40'.....	3	150# RAISED FACE S/O FLANGE.....	8
GALVANIZED.....	4	150# RAISED FACE S/W FLANGE.....	8
GALVANIZED H BEAM 20'.....	4	150# RAISED FACE W/N FLANGE.....	8
GALVANIZED I BEAM 20'.....	4	300# RAISED FACE S/O FLANGE.....	8
BUILDING MATERIALS.....	4	300# RAISED FACE W/N FLANGE.....	9
CONCRETE REINFORCEMENT.....	4	600# RAISED FACE S/O FLANGE.....	9
ANCHOR BOLTS.....	4	600# RAISED FACE S/W FLANGE.....	9
NONE NOTED.....	4	600# RAISED FACE W/N FLANGE.....	9
REBAR HIGH CHAIRS.....	4	180° RETURN BENDS-LR STD BW.....	9
REBAR.....	4	180° RETURN BENDS-LR XST BW.....	9
REMESH ROLLS.....	4	180° RETURN BENDS-SR STD BW.....	9
REMESH SHEET.....	4	180° RETURN BENDS-SR XST BW.....	9
TWISTERS.....	4	3000# SOCKET WELD 90° ELBOWS.....	9
STUDDED ANCHOR PLATE.....	4	3000# SOCKET WELD COUPLINGS.....	9
TYWIRE.....	4	CAPS-STANDARD WEIGHT BW.....	9
WELDABLE - REBAR.....	5	CAPS-EXTRA STRONG BW.....	10
WIRE TIES.....	5	CONCENTRIC STANDARD REDUCERS.....	10
ALUMINUM.....	5	STRAIGHT TEES-STD BW.....	10
BASE ANGLE - PRIMED.....	5	STRAIGHT TEES- XST BW.....	10
ALUMINUM AWNING TRIM.....	5	150# RAISED FACE W/N FLANGE XH.....	10
ROOF DECK.....	5	1500# RAISED FACE W/N FLANGE XST.....	10
GALVANIZED.....	5	KEYSTOCK.....	10
TENSIFORM DECK.....	5	CARBON STEEL.....	10
NONE NOTED.....	5	KEYSTOCK C1018 12'.....	10
CEE PURLINS - PRIMED.....	5	FLAT BAR.....	11
PURLIN CLIPS.....	5	ALUMINUM.....	11
R PANEL - GALVALUME.....	5	ALUMINUM FLAT 6061-T6 12'.....	11
ZEE PURLINS - PRIMED.....	5	CARBON STEEL.....	11
FASTENERS.....	5	CR FLAT 12' R/L.....	11
CHANNEL.....	5	HR FLAT A-36 20'.....	12
ALUMINUM.....	5	UM PLATE 20'.....	13
ALUMINUM ARCHITECTURAL CHANNEL.....	5	GALVANIZED.....	13
ALUMINUM CHANNEL 6061-T6 25'.....	5	GALVANIZED FLAT 20'.....	13
CARBON STEEL.....	5	STAINLESS.....	13
		STAINLESS FLAT T-304 12'.....	13



STAINLESS FLAT T-316 12'.....	13	ALUMINUM FLOOR PLATE 6061-T6 DIAMOND PLATE	18
FLAT METAL - SEE EXPANDED METAL.....	13	ALUMINUM PLATE 5052 H-32.....	18
ALUMINUM.....	13	ALUMINUM PLATE 6061-T6.....	18
ALUMINUM GRIP STRUT.....	13	CARBON STEEL.....	18
GALVANIZED.....	14	AR PLATE.....	18
GALVANIZED GRIP STRUT.....	14	FLOOR PLATE (DIAMOND PLATE).....	19
GALVANIZED WALKWAY GRIP STRUT.....	14	ALLOY.....	19
GALVANIZED SERRATED GRATING 19-W-4.....	14	PLATE STEEL ALLOY.....	19
HEXBAR.....	14	SMOOTH PLATE.....	19
CARBON STEEL.....	14	DOMEX.....	21
HEXBAR C1018 12'.....	14	HR DOMEX ALLOY STEEL.....	21
STRESS PROOF-HEXBAR.....	14	STAINLESS.....	21
MISCELLANEOUS.....	14	T-1 PLATE A-514 321/360.....	21
ALUMINUM.....	14	STAINLESS PLATE T-304-#1.....	22
LADDER RUNGS .125 (ALUM) 5'.....	14	STAINLESS PLATE T-316-#1.....	22
GALVANIZED.....	14	ROUND BAR.....	22
LADDER RUNGS 13GA (BLK) 5'.....	14	ALLOY.....	22
STAINLESS.....	14	CR ROUND 4140 T G & P.....	22
LADDER RUNGS 14GA STAINLESS 5'.....	14	HR ROUND 4140 ANNEALED R/L.....	22
CARBON STEEL.....	14	HR ROUND 4140 H/T R/L.....	22
BLADE STEEL.....	14	ALUMINUM.....	22
GRADER BLADES.....	14	ALUMINUM ROUND 12'.....	22
CONTINUOUS HINGES.....	14	CHROME PLATED.....	22
GALVANIZED.....	15	CHROME PLATED ROUND-1045-IHC.....	22
GALVANIZED ALL THREAD 10'.....	15	CHROME PLATED ONLY RND 1045.....	23
STAINLESS.....	15	CARBON STEEL.....	23
STAINLESS ALL THREAD 12'.....	15	CR ROUND 1144SR 12' R/L.....	23
PIPE.....	15	CR ROUND 1144SR DTGP 12' R/L.....	23
ALUMINUM.....	15	CR ROUND 12L14 12'.....	23
ALUMINUM O.D. PIPE 6061-T6 24'.....	15	CR ROUND 1215 12'.....	23
ALUMINUM PIPE SCH40 6061-T6.....	15	CR ROUND 1045 PSQ.....	23
ALUMINUM PIPE SCH80 6061-T6.....	15	CR ROUND C1045 T & P R/L.....	23
CARBON STEEL - BLACK PIPE.....	15	CR ROUND C1045 T G & P.....	23
BLACK PIPE SCH80 A-53B 21'.....	15	CR ROUND C1045.....	24
BLACK PIPE SCH80 A-53B 21' *DOMESTIC*.....	15	CR ROUND C1018.....	24
BLACK PIPE SCH20 A-53B 21'.....	15	CR ROUND 8620.....	24
BLACK PIPE SCH40 A-53B 21'.....	15	FATIGUE PROOF 12' R/L.....	24
BLACK PIPE SCH40 A-53B 21' *DOMESTIC*.....	16	GALVANIZED ROUND A-36 20'.....	24
BLACK PIPE SCH40/SEAMLESS A-106/A-53B R/L.....	16	HR ROUND A-36 20'.....	24
BLACK PIPE SCH80/SEAMLESS A-106/A-53B R/L.....	16	HR ROUND CC1045 20' R/L.....	25
BLACK PIPE SCH120/SEAMLESS R/L.....	16	STAINLESS.....	25
BLACK PIPE SCH160/SEAMLESS A-106/A-53B R/L.....	16	STAINLESS ROUND T-303 12' R/L.....	25
BLACK PIPE T & C A-53B 21'.....	16	STAINLESS ROUND T-304 12' R/L.....	25
BLUE PIPE SCH80/SEAMLESS R/L.....	16	STAINLESS ROUND T-316 12' R/L.....	25
GALVANIZED.....	16	STAINLESS ROUND T-416-PSQ R/L 20'.....	25
GALVANIZED PIPE PE A-53 21'.....	16	STRESS PROOF.....	25
GALVANIZED PIPE T & C A-53 21'.....	17	CARBON STEEL.....	25
LIGHT WALL O.D. PIPE.....	17	STRESS PROOF A-311B 12' R/L.....	25
UNPAINTED PIPE.....	17	STRESS PROOF G & P 20' R/L.....	26
UNPAINTED PIPE SCH10 21'.....	17	SHEET.....	26
UNPAINTED PIPE SCH40 21'.....	17	ALUMINUM.....	26
IMPORT UNPAINTED PIPE.....	17	ALUMINUM SHEET.....	26
UNPAINTED PIPE SCH80 42'.....	17	ALUMINUM SHEET-EMBOSSED.....	26
SEAMLESS PIPE XH R/L 21'/40'.....	17	ALUMINUM HC PERFORATED SHEET.....	26
SEAMLESS PIPE XXH R/L.....	18	CARBON STEEL.....	26
STAINLESS.....	18	AR SHEET A-2352.....	26
STAINLESS PIPE T-304 SCH10 20'.....	18	COR-TEN SHEET A606-TYPE-4.....	26
STAINLESS PIPE T-304 SCH40 20'.....	18	CR SHEET A-36.....	26
STAINLESS PIPE T-316 SCH40 20'.....	18	HR SHEET A-1011 GRADE 33.....	26
STAINLESS PIPE SCH80 T-304.....	18	PERFORATED SHEET.....	27
STAINLESS PIPE SCH80 T-316.....	18	COPPER.....	27
PLATE.....	18	COPPER SHEET 110 ALLOY.....	27
ALUMINUM.....	18	GALVANIZED.....	27
ALUMINUM FLOOR PLATE 3003-T6 DIAMOND PLATE	18	GALVANIZED SHEET A-653.....	27

PAINT GRIP.....	28	BRONZE.....	36
STAINLESS.....	28	MILWAUKEE BA SERIES BALL VALVE.....	36
STAINLESS SHEET T-304-2B.....	28	BUTTERFLY VALVES.....	37
STAINLESS SHEET T-304-#3.....	28	CAST IRON.....	37
STAINLESS SHEET T-304-#8.....	28	BUTTERFLY VALVES CAST IRON HP.....	37
STAINLESS SHEET T-316-2B.....	28	BUTTERFLY VALVES CAST IRON HP.....	37
SQUARE BAR.....	29	BUTTERFLY VALVES.....	37
ALLOY.....	29	CARBON STEEL.....	37
HR SQUARE 4140 HEAT TREATED.....	29	BUTTERFLY VALVES CAST IRON HP.....	37
CR SQUARE 4140 HEAT TREATED.....	29	CHECK VALVES.....	37
ALUMINUM.....	29	CARBON STEEL.....	37
ALUMINUM SQUARE.....	29	PLUMBING HEATING VALVES BRSBRN.....	37
CARBON STEEL.....	29	GATE VALVES.....	37
HR SQUARE A-36 20'.....	29	CARBON STEEL.....	37
STAINLESS.....	29	CAST IRON GATE VALVES MILWAUKEE.....	37
STAINLESS SQUARE T-304.....	29	GATE VALVES.....	38
STRIP (SEE ALSO `FLAT').....	29	BRONZE.....	38
ALUMINUM.....	29	PLUMBING HEATING VALVES BRSBRN.....	38
ALUMINUM STRIP 6061-T6 12'.....	29	VALVES.....	38
CARBON STEEL.....	29		
CR STRIP C1018 12' R/L.....	29		
HR STRIP A-36 20'.....	29		
STAINLESS.....	30		
STAINLESS STRIP T-316 12'.....	30		
STAINLESS STRIP T-304 12'.....	30		
TEES.....	30		
CARBON STEEL.....	30		
TEES 20'.....	30		
TUBING.....	30		
ALUMINUM.....	30		
ALUMINUM RECT. TUBING.....	30		
CARBON STEEL.....	30		
IMPORTED RECT. TUBING.....	30		
RECT. TUBING 20'/40'.....	31		
ALLOY.....	32		
ALLOY ROUND TUBING HR 4142.....	32		
ALUMINUM.....	32		
ALUMINUM ROUND TUBING.....	32		
ALUMINUM BRONZE.....	32		
ALUMINUM BRONZE ROUND TUBING.....	32		
CARBON STEEL.....	32		
CARBON STEEL ROUND TUBING A-513 20'.....	32		
SQUARE TUBING / FLASH CONTROL.....	33		
GALVANIZED.....	33		
GALVANIZED ROUND TUBING.....	33		
HYDRAULIC TUBING SEAMLESS.....	33		
HYDRAULIC TUBING WELDED.....	34		
STAINLESS.....	34		
STAINLESS RD TUBING SEAMLESS 20'.....	34		
STAINLESS RD TUBING WELDED 20'.....	34		
STAINLESS SANITARY TUBING 304L 20'.....	34		
ALUMINUM.....	34		
ALUMINUM SQ. TUBING 21'.....	34		
CARBON STEEL.....	34		
IMPORTED SQ TUBING.....	34		
SQUARE TUBING.....	35		
GALVANIZED.....	36		
GALV PERF. TELESCOPIC TUBING.....	36		
GALVANIZED SQUARE TUBING 20'.....	36		
STAINLESS.....	36		
STAINLESS SQ TUBING.....	36		
BALL VALVES.....	36		
CARBON STEEL.....	36		
STEEL BALL VALVES 2PC MILWAUKEE.....	36		

# after a numeral - generally signifies lbs.  
 # before a numeral - generally means `number'  
 #1 ----- Mill finish  
 #3 ----- Polished  
 #8 ----- Mirrored  
 2B ----- Brushed  
 AR ----- Abrasion resistant  
 ASTM --- American Society for Testing Materials  
 ASME --- American Society Mechanical Engineers  
 Blk ----- Black  
 BW ----- Butt weld  
 CR ----- Cold Rolled  
 D ----- domestic  
 DOM ----- Drawn over Mandral (refers to seamless tubing)  
 DTGP --- Drawn, turned, ground & polished  
 ERW ---- Electrical Resistance Weld  
 FL ----- Flange  
 FL Cont - flash control  
 GP ----- Ground & polished  
 HR ----- Hot Rolled  
 HT ----- Heat treated  
 JR ----- Junior  
 MC ----- Miscellaneous  
 MM ----- Metric  
 NL ----- Nominal length for Random Length  
 PE ----- Plain end  
 PO ----- Pickled and oiled  
 PSQ ---- Pump shaft quality  
 RD ----- Round  
 RL ----- Random Length  
 SHT ---- Sheet  
 SO ----- Slip on (REFERS TO FLANGES)  
 SR ----- Short radius  
 STD ---- Standard  
 SW ----- Socket weld  
 T&C ---- Threaded and coupled  
 T&P ---- Turned & polished  
 TG&P -- Turned, ground & polished  
 UM ----- Universal Mill  
 W/ ----- With  
 W/O ----- Without  
 WF ----- Wide flange  
 WN ----- Weld neck  
 WT/FT - Weight per foot  
 XH ----- Extra heavy (sometimes equivalent to SCH80)  
 XST ---- Extra strong  
 XXH ---- Extra, extra heavy (sometimes equivalent to, or greater than, SCH160)

Single letter designations for steel shapes (sometimes used by structural steel mills)  
 C followed by a number is C1018 - usually refers to carbon content of steel

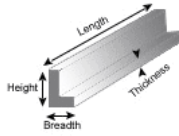
C = Channels, structural  
 F = Flats  
 H = H beams  
 I = I beams  
 L = Angles  
 M = Manufactured housing beams  
 S = Standard I beams  
 T = Tees  
 W = Wide flange beams

INDEX begins on Page 73

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**ANGLE**



**ALUMINUM**

**ALUMINUM ANGLE 6061-TB 25'**

HEIGHT	WEIGHT	THICK	WT/FT
1"	1"	1/8"	0.275
1"	1"	3/16"	0.400
1"	1"	1/4"	0.514
1 1/4"	1 1/4"	1/8"	0.343
1 1/4"	1 1/4"	3/16"	0.510
1 1/2"	1 1/2"	1/8"	0.423
1 1/2"	1 1/2"	3/16"	0.619
1 1/2"	1 1/2"	1/4"	0.809
2"	2"	1/8"	0.577
2"	2"	3/16"	0.850
2"	2"	1/4"	1.110
2 1/2"	2 1/2"	1/4"	1.404
3"	3"	1/4"	1.684
3"	3"	3/8"	2.474
4"	3"	1/4"	1.988
4"	4"	1/4"	2.283
4"	4"	1/2"	4.414

**ALUMINUM ARCH. ANGLE 6061-TB 16'**

HEIGHT	WEIGHT	THICK	WT/FT
1/2"	1/2	1/16"	0.068
3/4"	3/4	1/16"	0.109
1"	1	1/8"	0.273
1 1/2"	1	1/16"	0.182
2"	1	1/8"	0.418
2"	2	1/8"	0.564

**CARBON STEEL**

**ANGLE A-36 20'/40'**

HEIGHT	WEIGHT	THICK	WT/FT
1/2"	1/2"	1/8"	0.380
3/4"	3/4"	1/8"	0.590
1"	1"	1/8"	0.800
1"	1"	3/16"	1.160
1"	1"	1/4"	1.490
1 1/4"	1 1/4"	1/8"	1.010
1 1/4"	1 1/4"	3/16"	1.480
1 1/4"	1 1/4"	1/4"	1.920
1 1/2"	1 1/2"	1/8"	1.230
1 1/2"	1 1/2"	3/16"	1.800
1 1/2"	1 1/2"	1/4"	2.340
1 3/4"	1 3/4"	1/8"	1.440
1 3/4"	1 3/4"	3/16"	2.120
1 3/4"	1 3/4"	1/4"	2.770
2"	1 1/2"	1/8"	1.440
2"	1 1/2"	3/16"	2.120
2"	1 1/2"	1/4"	2.770
2"	2"	1/8"	1.650
2"	2"	3/16"	2.440
2"	2"	1/4"	3.190
2"	2"	5/16"	3.920
2"	2"	3/8"	4.700
2 1/2"	2"	3/16"	2.750

**ANGLE A-36 20'/40' Continued**

HEIGHT	WEIGHT	THICK	WT/FT
2 1/2"	2"	1/4"	3.620
2 1/2"	2"	5/16"	4.500
2 1/2"	2"	3/8"	5.300
2 1/2"	2 1/2"	3/16"	3.070
2 1/2"	2 1/2"	1/4"	4.100
2 1/2"	2 1/2"	5/16"	5.000
2 1/2"	2 1/2"	3/8"	5.900
2 1/2"	2 1/2"	1/2"	7.700
3"	2"	3/16"	3.070
3"	2"	1/4"	4.100
3"	2"	3/8"	5.900
3"	2 1/2"	3/16"	3.390
3"	2 1/2"	1/4"	4.500
3"	3"	3/16"	3.710
3"	3"	1/4"	4.900
3"	3"	5/16"	6.100
3"	3"	3/8"	7.200
3"	3"	1/2"	9.400
3 1/2"	2 1/2"	3/8"	7.200
3 1/2"	2 1/2"	1/4"	4.900
3 1/2"	2 1/2"	1/2"	9.400
3 1/2"	3"	1/4"	5.400
3 1/2"	3"	3/8"	7.900
3 1/2"	3 1/2"	1/4"	5.800
3 1/2"	3 1/2"	5/16"	7.200
3 1/2"	3 1/2"	3/8"	8.500
3 1/2"	3 1/2"	1/2"	11.100
4"	3"	1/4"	5.800
4"	3"	5/16"	7.200
4"	3"	3/8"	8.500
4"	3"	1/2"	11.100
4"	3 1/2"	1/4"	6.200
4"	3 1/2"	5/16"	7.700
4"	3 1/2"	3/8"	9.100
4"	4"	1/4"	6.600
4"	4"	5/16"	8.200
4"	4"	3/8"	9.800
4"	4"	7/16"	11.300
4"	4"	1/2"	12.800
4"	4"	3/4"	18.500
5"	3"	1/4"	6.600
5"	3"	5/16"	8.200
5"	3"	3/8"	9.800
5"	3"	1/2"	12.800
5"	3 1/2"	1/4"	7.000
5"	3 1/2"	5/16"	8.700
5"	3 1/2"	3/8"	10.400
5"	3 1/2"	1/2"	13.600
5"	3 1/2"	3/4"	19.800
5"	5"	5/16"	10.300
5"	5"	3/8"	12.300
5"	5"	1/2"	16.200
6"	3 1/2"	5/16"	9.800
6"	4"	5/16"	10.300
6"	4"	3/8"	12.300
6"	4"	1/2"	16.200
6"	4"	3/4"	23.600
6"	6"	5/16"	12.400
6"	6"	3/8"	14.900
6"	6"	1/2"	19.600

ANGLE 20'/40' Continued

HEIGHT	WEIGHT	THICK	WT/FT
6"	6"	3/4"	28.700
7"	4"	3/8"	13.600
7"	4"	1/2"	17.900
8"	4"	1/2"	19.600
8"	6"	1/2"	23.000
8"	6"	5/8"	28.500
8"	8"	1/2"	26.400
8"	8"	5/8"	32.700
8"	8"	3/4"	38.900

PRIMED ANGLE A-36 20'

HEIGHT	WEIGHT	THICK	WT/FT
1 1/4"	1 1/4"	1/8"	1.010
1 1/2"	1 1/2"	1/8"	1.230
2"	2"	1/8"	1.650
2"	2"	3/16"	2.440
2"	2"	1/4"	3.190

COR-TEN ANGLE

HEIGHT	WEIGHT	THICK	WT/FT
4"	4"	3/8"	9.800
5"	5"	3/8"	12.300

GALVANIZED

GALVANIZED ANGLE A-36 20'

HEIGHT	WEIGHT	THICK	WT/FT
1"	1"	1/8"	0.860
1"	1"	3/16"	1.240
1 1/4"	1 1/4"	1/8"	1.080
1 1/4"	1 1/4"	3/16"	1.580
1 1/2"	1 1/2"	1/8"	1.320
1 1/2"	1 1/2"	3/16"	1.930
1 1/2"	1 1/2"	1/4"	2.480
2"	2"	1/8"	1.770
2"	2"	3/16"	2.610
2"	2"	1/4"	3.410
2"	2"	3/8"	5.030
2 1/2"	2 1/2"	3/16"	3.280
2 1/2"	2 1/2"	1/4"	4.390
3"	3"	3/16"	3.970
3"	3"	1/4"	5.240
3"	3"	3/8"	7.560
4"	3"	3/8"	9.100
4"	4"	3/8"	10.490

STAINLESS

STAINLESS ANGLE T-304 20'

HEIGHT	WEIGHT	THICK	WT/FT
3/4"	3/4"	1/8"	0.590
1"	1"	1/8"	0.800
1"	1"	3/16"	1.160
1"	1"	1/4"	1.490
1 1/4"	1 1/4"	1/8"	1.010
1 1/4"	1 1/4"	3/16"	1.480

STAINLESS ANGLE T-304 20' Continued

HEIGHT	WEIGHT	THICK	WT/FT
1 1/4"	1 1/4"	1/4"	1.920
1 1/2"	1 1/2"	1/8"	1.230
1 1/2"	1 1/2"	3/16"	1.800
1 1/2"	1 1/2"	1/4"	2.340
2"	2"	1/8"	1.650
2"	2"	3/16"	2.440
2"	2"	1/4"	3.190
2 1/2"	2 1/2"	3/16"	3.070
2 1/2"	2 1/2"	1/4"	4.100
3"	3"	3/16"	3.710
3"	3"	1/4"	4.900
4"	4"	1/4"	6.600

**BAR GRATING**



ALUMINUM

ALUMINUM SERRATED BAR GRATING

BEARING BARS	SHT SIZE	WT/SQFT
3/16" X 1"	36 X 240	1.900

ALUMINUM I-BAR GRATING

BEARING BARS	SHT SIZE	WT/SQFT
3/16 X 1 1/4	36 X 240	9.030

CARBON STEEL

BAR GRATING CLIPS

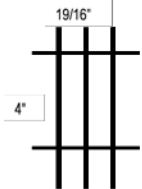
BUTTERFLY CLIPS

UNPAINTED BAR GRATING

BEARING BARS	SHT SIZE	WT/SQFT
1/8" X 1"	24 X 240	5.150
1/8" X 1"	36 X 240	5.150
3/16" X 1"	24 X 240	7.350
3/16" X 1"	36 X 240	7.350
3/16" X 3/4"	36 X 288	5.600
3/16" X 1 1/2"	36 X 240	10.080
3/16" X 1 1/4"	24 X 240	9.030
3/16" X 1 1/4"	36 X 240	9.030
3/16" X 1 3/4"	36 X 240	12.200

BAR GRATING 19-W4

BEARING BARS	SHT SIZE	WT/SQFT
1/8" X 1"	24 X 240	5.150
1/8" X 1"	36 X 240	5.150
1/8" X 1 1/2"	36 X 240	7.200
3/16" X 3/4"	36 X 240	5.670
3/16" X 1"	24 X 240	7.350
3/16" X 1"	36 X 240	7.350
3/16" X 1"	36 X 288	7.350
3/16" X 1 1/4"	24 X 240	9.030
3/16" X 1 1/4"	36 X 240	9.030
3/16" X 1 1/2"	36 X 240	10.080
3/16" X 1 3/4"	36 X 240	12.400





**UNPAINTED SERR. BAR GRATING**

BEARING BARS	SHT SIZE	WT/SQFT
3/16" X 1"	36 X 240	7.350
3/16" X 1 1/4"	36 X 240	10.080

**SERRATED BAR GRATING 19-W4**

BEARING BARS	SHT SIZE	WT/SQFT
3/16" X 1"	36 X 288	7.350
3/16" X 1"	36 X 240	7.350
3/16" X 1"	24 X 240	7.350
3/16" X 1 1/4"	36 X 240	9.030

**GALVANIZED BAR GRATING 19-W4**

BEARING BARS	SHT SIZE	WT/SQFT
3/16 X 1	24 X 240	7.350
3/16 X 1	36 X 240	7.350
3/16 X 1 1/4	36 X 240	9.030

**BEAM**

**ALUMINUM**

**ALUMINUM I BEAM 6061-T6**

DEPTH/SIZE	WT/FT	WIDTH THICK
4" 2.6#	2.660	.190
4" 3.2#	2.796	.326
6" 4.3#	3.330	.230

**CARBON STEEL**

**I BEAM A-36 20'/40'**

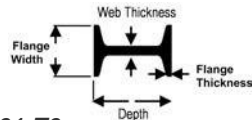
SIZE	WT/FT	FLANGE WIDTH	FLANGE THICK	WEB
3"	5.7#	2.330	.260	.170
3"	7.5#	2.509	.260	.349
4"	7.7#	2.663	.293	.193
4"	9.5#	2.796	.293	.326
5"	10.0#	3.004	.326	.214
6"	12.5#	3.332	.359	.232
6"	17.25#	3.565	.359	.465
7"	15.3#	3.662	.392	.252
8"	18.4#	4.001	.426	.271
8"	23.0#	4.171	.426	.441
10"	25.4#	4.661	.491	.311
12"	31.8#	5.000	.544	.350
12"	35.0#	5.078	.544	.428
12"	40.8#	5.252	.659	.462
12"	50.0#	5.477	.659	.687
15"	42.9#	5.501	.622	.411
15"	50.0#	5.640	.622	.550

**JR BEAM A-36 20'**

SIZE	WT/FT	FLANGE WIDTH	FLANGE THICK	WEB
4"	6.0#	3.800	.175	.175
6"	4.4#	1.844	.171	.114
8"	6.5#	2.281	.189	.135
10"	9.0#	2.690	.206	.157
12"	11.8#	3.055	.225	.177

**WF BEAM A-36 20'/40'**

SIZE	WT/FT	DEPTH	FLANGE WIDTH	FLANGE THICK	WEB
4 X 4	13.0#	4.16	4.060	.345	.280
5 X 5	16.0#	5.01	5.000	.360	.240
5 X 5	19.0#	5.15	5.030	.430	.270
6 X 4	9.0#	5.90	3.940	.215	.170
6 X 4	12.0#	6.03	4.000	.280	.230
6 X 6	15.0#	5.99	5.990	.260	.230
6 X 4	16.0#	6.28	4.030	.405	.260
6 X 6	20.0#	6.20	6.020	.365	.260
6 X 6	25.0#	6.38	6.080	.455	.320
8 X 4	10.0#	7.89	3.940	.205	.170
8 X 4	13.0#	7.99	4.000	.255	.230
8 X 4	15.0#	8.11	4.015	.315	.245
8 X 5 1/4	18.0#	8.14	5.250	.330	.230
8 X 5 1/4	21.0#	8.28	5.270	.400	.250
8 X 6 1/2	24.0#	7.93	6.495	.400	.245
8 X 6 1/2	28.0#	8.06	6.535	.465	.285
8 X 8	31.0#	8.00	7.995	.435	.285
8 X 8	35.0#	8.12	8.020	.495	.310
8 X 8	40.0#	8.25	8.070	.560	.360
8 X 8	48.0#	8.50	8.110	.685	.400
10 X 4	12.0#	9.87	3.960	.210	.190
10 X 4	15.0#	9.99	4.000	.270	.230
10 X 4	17.0#	10.11	4.010	.330	.240
10 X 4	19.0#	10.24	4.020	.395	.250
10 X 5 3/4	22.0#	10.17	5.750	.360	.240
10 X 5 3/4	26.0#	10.33	5.770	.440	.260
10 X 5 3/4	30.0#	10.47	5.810	.510	.300
10 X 8	33.0#	9.73	7.960	.435	.290
10 X 8	39.0#	9.92	7.985	.530	.315
10 X 8	45.0#	10.10	8.020	.620	.350
10 X 10	49.0#	9.98	10.000	.560	.340
10 X 10	54.0#	10.09	10.030	.615	.370
10 X 10	77.0#	10.60	10.190	.870	.530
12 X 4	14.0#	11.91	3.970	.225	.200
12 X 4	16.0#	11.99	3.990	.265	.220
12 X 4	19.0#	12.16	4.005	.350	.235
12 X 4	22.0#	12.31	4.030	.425	.260
12 X 6 1/2	26.0#	12.22	6.490	.380	.230
12 X 6 1/2	30.0#	12.50	6.520	.440	.260
12 X 6 1/2	35.0#	11.94	6.560	.520	.300
12 X 8	50.0#	12.19	8.080	.640	.370
12 X 8	45.0#	12.06	8.045	.575	.335
12 X 10	53.0#	12.06	9.995	.575	.345
12 X 10	58.0#	12.19	10.010	.640	.360
12 X 12	65.0#	12.12	12.000	.605	.390
12 X 12	72.0#	12.25	12.040	.670	.430
12 X 12	87.0#	12.53	12.125	.810	.515
14 X 5	22.0#	13.74	5.000	.335	.230



**WF BEAM A-36 20'/40' Continued**

SIZE	WT/FT	DEPTH	FLANGE WIDTH	FLANGE THICK	WEB
14 X 5	26.0#	13.91	5.025	.420	.255
14 X 10	68.0#	14.04	10.035	.720	.415
14 X 6 3/4	30.0#	13.84	6.730	.385	.270
14 X 6 3/4	34.0#	13.98	6.745	.455	.285
14 X 6 3/4	38.0#	14.10	6.770	.515	.310
14 X 16	257.0#	16.38	15.995	1.890	1.175
14 X 8	43.0#	13.66	7.995	.530	.305
14 X 8	48.0#	13.79	8.030	.595	.340
14 X 8	53.0#	13.92	8.060	.660	.370
14 X 14 1/2	90.0#	14.02	14.520	.710	.440
16 X 5 1/2	26.0#	15.69	5.500	.345	.250
16 X 5 1/2	31.0#	15.88	5.525	.440	.275
16 X 7	36.0#	15.86	6.985	.430	.295
16 X 7	40.0#	16.01	6.995	.505	.305
16 X 7	45.0#	16.13	7.035	.565	.345
16 X 7	50.0#	16.26	7.070	.630	.380
16 X 10 1/4	67.0#	16.33	10.235	.665	.395
16 X 10 1/4	77.0#	1.652	10.295	.760	.455
18 X 6	35.0#	17.70	6.000	.425	.300
18 X 6	40.0#	17.90	6.015	.525	.314
18 X 7 1/2	50.0#	17.99	7.495	.570	.355
18 X 7 1/2	60.0#	18.24	7.555	.695	.415
18 X 7 1/2	65.0#	18.35	7.590	.750	.450
18 X 7 1/2	71.0#	18.47	7.635	.810	.495
18 X 11	76.0#	18.21	11.035	.680	.425
18 X 11	86.0#	18.39	11.090	.770	.480
18 X 11	97.0#	18.59	11.145	.870	.535
18 X 19	130.0#	19.25	11.160	1.200	.670
18 X 7 1/2	55.0#	18.11	7.530	.630	.390
21 X 6 1/2	50.0#	20.83	6.530	.535	.380
21 X 6 1/2	57.0#	21.06	6.555	.650	.405
21 X 8 1/4	62.0#	20.99	8.240	.615	.400
21 X 8 1/4	73.0#	21.24	8.295	.740	.455
21 X 12 1/4	147.0#	22.06	12.510	1.150	.720
24 X 7	55.0#	23.57	7.000	.505	.395
24 X 7	62.0#	23.74	7.040	.590	.430
24 X 9	68.0#	23.73	8.965	.585	.415
24 X 9	84.0#	24.10	9.020	.770	.470
24 X 12 3/4	104.0#	24.06	12.750	.750	.500
24 X 12 3/4	131.0#	24.48	12.855	.960	.605
24 X 9	76.0#	23.92	8.990	.680	.440
33 X 11 1/2	130.0#	33.09	11.510	.855	.580

**GALVANIZED**

**GALVANIZED H BEAM 20'**

SIZE	WT/FT	DEPTH	WID	THICK
6"	21.40#	0.260	6.020	0.365

**GALVANIZED I BEAM 20'**

SIZE	WT/FT	DEPTH	WID	THICK
3"	6.10#	0.170	2.330	2.600
4"	8.24#	0.193	2.663	0.293

**BUILDING MATERIALS**

**CONCRETE REINFORCEMENT**

**ANCHOR BOLTS**

SIZE
1/2" 12" X 1 1/2"
3/4" 16" X 3"
5/8" 16" X 3"

**REBAR HIGH CHAIRS**

SIZE
1 1/2"
2"

**REBAR**

DIAM/STYLE	WT/FT
3/8" # 3	0.376
1/2" # 4	0.668
5/8" # 5	1.043
3/4" # 6	1.502
7/8" # 7	2.044
1" # 8	2.670
1 1/8" # 9	3.400

**REMESH ROLLS**

WIRE SPACE	GA/GA	WT/SQFT
6" / 6"	6 / 6	0.420
6" / 6"	10 / 10	0.210

**REMESH SHEET**

WIRE SPACE	GA/GA	SIZE	WT/FT
4" / 4"	4 / 4	8' X 20'	0.860
6" / 6"	6 / 6	8' X 20'	0.210
6" / 6"	10 / 10	8' X 20'	0.420

**TWISTERS**

WOOD HANDLE TWISTER  
AUTOMATIC TWISTER

**STUDDED ANCHOR PLATE**

THICK	SIZE
1/2"	10" X 10"
3/8"	8" X 8"

**TYWIRE**

GA	LBS/ROLL
9	100
12	100
16	3.5

**WELDABLE - REBAR**

DIAM	SIZE/STYLE	WT/FT
3/8"	A-706 # 3	0.376
1/2"	A-706 # 4	0.668
5/8"	A-706 # 5	1.043
3/4"	A-706 # 6	1.502
7/8"	A-706 # 7	2.044
1"	A-706 # 8	2.670
1 1/8"	A-706 # 9	3.400

**WIRE TIES**

GA	# PER BDL
4	5000
5	5000
5 1/2	5000
6	5000
6 1/2	5000
7	5000
8	5000
10	5000
12	5000

**BASE ANGLE - PRIMED**

SIZE	GA	L	WT/FT
2" X 2"	14	20'	1.010
3" X 2"	14	20'	1.260
4" X 2"	14	20'	1.509

**ALUMINUM**

**ALUMINUM AWNING TRIM**

ALUMINUM AWNING TRIM 24'

**ROOF DECK**

GA	TYPE	SHT SIZE	WT/FT
22	BW-36 PAINTED	36 X 242	1.730
22	BW-36 PAINTED	36 X 266	1.730
22	F-36 PAINTED	36 X 242	1.730

**TENSILFORM DECK**

26	TENSILFORM DECK S-3	36 X 42	0.880
28	TENSILFORM DECK S-3	36 X 42	0.880

**CEE PURLINS - PRIMED**

SIZE	GA	L	WT/FT
3" X 1 1/2"	14	20' / 25' / 30'	1.433
4" X 1 1/2"	14	20' / 25' / 30'	1.910
4" X 2"	14	20' / 30'	2.123
6" X 2"	14	20' / 25' / 30'	2.690
8" X 2 1/2"	14	20' / 25' / 30'	3.370
10" X 2 3/4"	14	20' / 25' / 30'	4.000
12" X 3	14	25' / 30'	4.850

**PURLIN CLIPS**

SIZE  
 3/16" 5" X 7"  
 10GA X 3 X 5

**R PANEL - GALVALUME**

GA	SIZE	COLOR
26	3 X 6	GALVALUME
26	3 X 8	GALVALUME
26	3 X 10	GALVALUME
26	3 X 12	GALVALUME
26	3 X 14	GALVALUME
26	3 X 16	GALVALUME
26	3 X 25	GALVALUME

**ZEE PURLINS - PRIMED**

SIZE	GA	L	WT/FT
6" X 2"	14	20' / 25' / 30'	2.783
8" X 2 1/2"	14	20' / 25' / 30'	3.554

**FASTENERS**

SIZE  
 7/8" Galv Lap Tek Drillers  
 3/4" #12 Galv Self Drillers  
 3/4" #12 White Self Drillers

**CHANNEL**

**ALUMINUM**

**ALUMINUM ARCHITECTURAL CHANNEL**

DEPTH	WEB	FI. WID	WT/FT
1 1/4"	1 1/4"	1/8"	0.509

**ALUMINUM CHANNEL 6061-T6 25'**

DEPTH	WEB	FI. WID	WT/FT
2"	1/8"	1.000	0.552
3"	.170	1.410	1.417
4"	.180	1.580	1.846
5"	.190	1.750	2.316
6"	.200	1.920	2.826
8"	.250	2.290	4.252
10"	.240	2.600	5.278

**CARBON STEEL**

**BAR CHANNEL A-36 20'**

DEPTH	WEB	FI. WID	WT/FT
1"	1/8"	1/2"	0.83
1 1/4"	1/8"	1/2"	1.01
1 1/2"	1/8"	1/2"	0.12
1 1/2"	1/8"	3/4"	1.17
2"	1/8"	1/2"	1.43
2"	1/8"	1"	1.78
2"	3/16"	1"	2.32

**BAR CHANNEL A-36 20' Continued**

DEPTH	WEB	FL. WID	WT/FT
2 1/2"	3/16"	5/8"	2.27

**JR CHANNEL A-36 20'/40'**

DEPT	WEB	FL. WID	FL. THICK.	WT/FT
8"	0.179	1.875	.311	8.500
10"	0.170	1.500	.280	8.400
12"	0.190	1.500	.309	10.600

**MC CHANNEL A-36 20'/40'**

DEPTH	WEB	FL. WID	FL. THICK.	WT/FT
3"	0.312	1.938	.351	7.100
4"	0.500	2.500	.500	13.800
6"	0.310	2.497	.375	12.000
6"	0.340	3.500	.385	15.300
6"	0.375	3.000	.475	16.300
6"	0.379	3.504	.500	18.000
8"	0.353	2.978	.500	18.700
8"	0.400	3.025	.500	20.000
8"	0.427	3.502	.525	22.800
10"	0.312	3.315	.560	22.000
10"	0.380	3.405	.563	25.000
10"	0.425	3.950	.575	28.500
10"	0.575	4.100	.575	33.600
10"	0.796	4.321	.575	41.100
12"	0.467	3.767	.700	35.000
12"	0.712	4.012	.700	45.000
18"	0.700	4.200	.625	58.000
18"	0.450	3.950	.625	42.700
18"	0.500	4.000	.625	45.800

**STRUCTURAL CHANNEL A-36 20'/40'**

DEPTH	WEB	FL. WID	FL. THICK.	WT/FT
3"	0.125	1.355	.273	3.500
3"	0.170	1.410	.273	4.100
3"	0.258	1.498	.273	5.000
3"	0.356	1.596	.273	6.000
4"	0.125	1.560	.296	4.500
4"	0.184	1.584	.296	5.400
4"	0.321	1.721	.296	7.250
5"	0.190	1.750	.320	6.700
5"	0.325	1.885	.320	9.000
6"	0.200	1.920	.343	8.200
6"	0.314	2.034	.343	10.500
6"	0.437	2.157	.343	13.000
7"	0.210	2.090	.366	9.800
7"	0.314	2.194	.366	12.250
8"	0.220	2.260	.390	11.500
8"	0.303	2.343	.390	13.750
8"	0.487	2.527	.390	18.750
9"	0.233	2.433	.413	13.400
10"	0.240	2.600	.436	15.300
10"	0.379	2.739	.436	20.000
10"	0.526	2.886	.436	25.000
10"	0.673	3.033	.436	30.000
12"	0.282	2.942	.501	20.700
12"	0.387	3.047	.501	25.000
12"	0.510	3.170	.501	30.000

**STRUCTURAL CHANNEL A-36 20'/40' Continued**

DEPTH	WEB	FL. WID	FL. THICK.	WT/FT
15"	0.40	3.400	.650	33.900
15"	0.520	3.520	.650	40.000
15"	0.716	3.716	.650	50.000

**GALVANIZED BAR CHANNEL A-36 20'**

DEPTH	FL. WID	FL. THICK.	WT/FT
2"	1	3/16	2.480

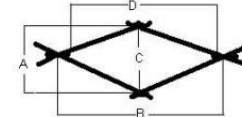
**GALVANIZED CHANNEL A-36 20'**

DEPTH	WEB	FL. WID	FL. THICK.	WT/FT
3"	1.410	0.170	.273	4.100
4"	1.584	0.184	.296	5.400
5"	1.750	0.190	.296	6.700
6"	1.920	0.200	.320	8.200
8"	2.260	0.220	.390	11.500

*\*For actual weight, add 2% to wt/ft due to galvanizing\**

**EXPANDED AND FLAT METAL**

**ALUMINUM**



**ALUMINUM EXPANDED METAL 5005 H-34**

SIZE					SHT	WT/
STYLE	A	B	C	D	SIZE	EA
3/4"	.923	2.00	.688	1.688	4 X 8	21
1/2"	.051	.500	1.27	.313	1.000	4 X 8 8 FLAT

**CARBON STEEL**

**EXPANDED METAL**

SIZE					SHT	WT/
STYLE	A	B	C	D	SIZE	SQFT EA
1/2" #16	.5	1.2	0.375	0.938	4 X 8	0.860 28
1/2" #13	.5	1.2	0.313	0.938	4 X 8	1.470 47
1/2" #13	.5	1.2	0.313	0.938	4 X 10	1.470 59
3/4" #16	.923	2.0	0.813	1.750	4 X 8	0.540 17
3/4" #13	.923	2.0	0.750	1.688	4 X 8	0.750 26
3/4" #10	.923	2.0	0.750	1.625	4 X 8	1.200 38
3/4" #9	.923	2.0	0.688	1.563	4 X 8	1.800 58
3/4" #9	.923	2.0	0.688	1.563	4 X 10	1.800 73
3/4" #9	.923	2.0	0.688	1.563	6 X 8	1.800 86
1 1/2" #13	1.330	3.0	1.188	2.500	4 X 8	0.600 19
1 1/2" #13	1.330	3.0	1.188	2.500	6 X 8	0.600 28
1 1/2" #9	1.330	3.0	1.125	2.375	4 X 8	1.200 38
1 1/2" #6	1.330	3.0	1.000	2.313	4 X 8	2.500 80
1 1/2" #6	1.330	3.0	1.000	2.313	6 X 8	2.500 120
1 1/2" #6	1.330	3.0	1.000	2.313	6 X 10	2.500 150
1" #16	1.090	2.4	1.000	2.063	4 X 8	0.440 14



**GRATE-X**

SIZE					SHT			WT/
STYLE	A	B	C	D	SIZE	SQFT	EA	
3.00#	1.333	5.33	0.938	3.438	4 X 8	3.000	96	
3.00#	1.333	5.33	0.938	3.438	6 X 10	3.000	180	
3.14#	2.000	6.00	1.625	4.875	4 X 8	3.140	100	
4.27#	1.412	4.00	1.000	2.875	4 X 8	4.270	137	
4.27#	1.412	4.00	1.000	2.875	6 X 8	4.270	205	
4.27#	1.412	4.00	1.000	2.875	6 X 12	11.270	307	
5.00#	1.333	5.33	0.813	3.375	4 X 8	5.000	160	

**FLAT METAL**

SIZE					SHT			WT/
STYLE	A	B	C	D	SIZE	SQFT	EA	
1/4" #18	.255	1.03	.094	.068	4 X 8	1.125	36	
1/2" #13	.500	1.26	.250	1.000	3 X 10	1.400	42	
1/2" #13	.500	1.26	.250	1.000	4 X 8	1.400	44	
1/2" #13	.500	1.26	.250	1.000	4 X 10	1.400	55	
1/2" #13	.500	1.26	.250	1.000	5 X 10	1.400	69	
1/2" #16	.500	1.26	.250	1.000	4 X 8	0.820	26	
1/2" #16	.500	1.26	.250	1.000	6 X 8	0.820	39	
1/2" #18	.500	1.26	.281	1.000	4 X 8	0.660	21	
3/4" # 9	.923	2.10	.563	1.688	4 X 8	1.725	55	
3/4" # 9	.923	2.10	.563	1.688	4 X 10	1.729	69	
3/4" # 9	.923	2.10	.563	1.688	4 X 12	1.729	83	
3/4" # 9	.923	2.10	.563	1.688	5 X 10	1.729	86	
3/4" #13	.923	2.00	.688	1.782	4 X 8	0.750	24	
3/4" #13	.923	2.00	.688	1.782	4 X 10	0.750	30	
3/4" #16	.923	2.00	.750	1.750	4 X 8	0.510	16	
3/4" #16	.923	2.00	.750	1.750	5 X 10	0.510	26	
1 1/2" # 9	1.33	3.20	1.000	2.563	4 X 8	1.140	36	
1 1/2" # 9	1.33	3.20	1.000	2.563	4 X 10	1.140	45	
1 1/2" #13	1.33	3.20	1.063	2.750	4 X 8	0.570	18	
1 1/2" # 6	1.33	3.20	1.000	2.563	4 X 8	0.238	76	

**GALVANIZED EXPANDED METAL**

SIZE					SHT			WT/
STYLE	A	B	C	D	SIZE	SQFT	EA	
3/4" #9	.923	2.00	.688	1.562	4 X 8	1.844	59	

**GALVANIZED FLAT METAL**

SIZE					SHT			WT/
STYLE	A	B	C	D	SIZE	SQFT	EA	
1/2" #13	.500	1.26	.250	1.000	4 X 8	1.500	48	
3/4" #9	.923	2.00	.688	1.562	4 X 8	1.844	59	

**STAINLESS**

**STAINLESS EXPANDED METAL T-304**

SIZE					SHT			WT/
STYLE	A	B	C	D	SIZE	SQFT	EA	
3/4" #9	.923	2.00	.688	1.563	4 X 8	1.813	58	

**STAINLESS FLAT METAL T-304**

SIZE					SHT			WT/
STYLE	A	B	C	D	SIZE	SQFT	EA	
1/2" #13	.500	1.26	.250	1.000	4 X 8	1.375	44	
3/4" #9	.923	2.10	.563	1.688	4 X 8	1.719	55	

**STAINLESS FLAT METAL T-316**

SIZE					SHT			WT/
STYLE	A	B	C	D	SIZE	SQFT	EA	
1/2" #13	.500	1.26	.250	1.000	4 X 8	1.375	44	
1/2" #13	.500	1.26	.250	1.000	4 X 10	1.375	55	
3/4" #9	.923	2.10	.563	1.688	4 X 8	1.719	55	

**FITTINGS**

**CARBON STEEL**

**45° ELBOWS-STANDARD BW**

DIAM	WT/EA
1/2"	0.090
3/4"	0.100
1"	0.220
1 1/4"	0.330
1 1/2"	0.430
2"	0.850
2 1/2"	1.700
3"	2.500
3 1/2"	3.400
4"	4.500
5"	7.500
6"	11.700
8"	23.300
10"	40.900
12"	61.400

**45° ELBOWS-EXTRA STRONG BW**

DIAM	WT/EA
1/2"	0.150
3/4"	0.160
1"	0.280
1 1/4"	0.450
1 1/2"	0.610
2"	1.200
2 1/2"	2.000
3"	3.300
3 1/2"	4.500
4"	6.200
5"	10.500
6"	17.000
8"	34.300
10"	53.500
12"	77.600

**90° ELBOWS-SHORT RADIUS STD BW**

DIAM	WT/EA
1"	0.250
1 1/4"	0.390
1 1/2"	0.530
2"	0.970
2 1/2"	2.000
3"	3.000
3 1/2"	4.300
4"	6.100
5"	9.700
6"	16.700
8"	32.400
10"	56.300
12"	79.400
14"	104.000
16"	129.000
18"	163.000
20"	210.000

**90° ELBOWS-SHORT RADIUS XST BW**

DIAM	WT/EA
1 1/2"	0.750
2"	1.500
2 1/2"	2.600
3"	3.800
3 1/2"	5.400
4"	7.600
5"	13.800
6"	22.800
8"	47.300
10"	71.000
12"	104.000

**90° ELBOWS-LONG RADIUS STD BW**

DIAM	WT/EA
1/2"	0.160
3/4"	0.170
1"	0.400
1 1/4"	0.550
1 1/2"	0.800
2"	1.600
2 1/2"	3.200
3"	4.800
3 1/2"	6.600
4"	8.900
5"	15.100
6"	24.000
8"	47.800
10"	83.400
12"	123.000

**90° ELBOWS-LONG RADIUS XST BW**

DIAM	WT/EA
1/2"	0.260
3/4"	0.290
1"	0.480
1 1/4"	0.790

**90° ELBOWS-LONG RADIUS XST BW Continued**

DIAM	WT/EA
1 1/2"	1.200
2"	2.100
2 1/2"	3.800
3"	6.300
3 1/2"	8.600
4"	12.500
5"	21.200
6"	34.400
8"	71.300
10"	111.000
12"	158.000

**150# RAISED FACE S/O FLANGE**

DIAM	WT/EA
3/4"	2.000
1 1/2"	3.000
2"	5.000
2 1/2"	7.000
3"	8.000
4"	13.000
5"	15.000
6"	19.000
8"	30.000
10"	42.000
12"	64.000
14"	85.000
16"	94.000
18"	120.000
20"	155.000
24"	210.000

**150# RAISED FACE S/W FLANGE**

DIAM	WT/EA
3/4"	2.000
1"	2.000

**150# RAISED FACE W/N FLANGE**

DIAM	WT/EA
2"	9.000
3"	14.000
4"	16.000
6"	25.000
8"	40.000
10"	56.000
12"	86.000
16"	141.000

**300# RAISED FACE S/O FLANGE**

DIAM	WT/EA
2 1/2"	10.000
3"	13.000
4"	22.000
6"	39.000
8"	58.000
10"	82.000
12"	115.000

**300# RAISED FACE S/O FLANGE Continued**

DIAM	WT/EA
14"	163.000
16"	220.000
24"	492.000

**300# RAISED FACE W/N FLANGE**

DIAM	WT/EA
3"	16.000
4"	26.000
6"	45.000
8"	70.000
10"	94.000

**600# RAISED FACE S/O FLANGE**

DIAM	WT/EA
6"	83.000
8"	114.000

**600# RAISED FACE S/W FLANGE**

DIAM	WT/EA
1/2"	3.000

**600# RAISED FACE W/N FLANGE**

DIAM	WT/EA
3"	20.000
6"	77.000
8"	111.000

**180° RETURN BENDS-LR STD BW**

DIAM	WT/EA
1/2"	0.320
3/4"	0.340
1"	0.740
1 1/4"	1.100
1 1/2"	1.600
2"	3.200
2 1/2"	6.100
3"	9.400
3 1/2"	12.800
4"	17.500
5"	29.300
6"	47.000
8"	87.000
10"	164.000
12"	237.000

**180° RETURN BENDS-LR XST BW**

DIAM	WT/EA
1/2"	0.450
3/4"	0.520
1"	0.970
1 1/4"	1.600
1 1/2"	2.200
2"	4.100
2 1/2"	7.700

**180° RETURN BENDS-LR XST BW Continued**

DIAM	WT/EA
3"	12.400
3 1/2"	17.100
4"	24.100
5"	41.700
6"	68.200
8"	140.000
10"	217.000
12"	311.000

**180° RETURN BENDS-SR STD BW**

DIAM	WT/EA
1"	0.500
1 1/4"	0.800
1 1/2"	1.100
2"	1.900
2 1/2"	4.000
3"	6.000
3 1/2"	8.700
4"	12.200
5"	19.200
6"	32.900
8"	64.900
10"	112.000
12"	157.000

**180° RETURN BENDS-SR XST BW**

DIAM	WT/EA
1 1/2"	1.500
2"	2.900
2 1/2"	5.200
3"	8.200
3 1/2"	11.700
4"	16.400
5"	27.700
6"	45.700
8"	96.300
10"	143.000
12"	212.000

**3000# SOCKET WELD 90° ELBOWS**

SIZE	WT/EA
1/2"	0.500

**3000# SOCKET WELD COUPLINGS**

SIZE	WT/EA
1/2"	0.230

**CAPS-STANDARD WEIGHT BW**

DIAM	WT/EA
1/2"	0.080
3/4"	0.140
1"	0.210
1 1/4"	0.330
1 1/2"	0.540
2"	0.800

**CAPS-STANDARD WEIGHT BW Continued**

DIAM	WT/EA
2 1/2"	1.000
3"	1.700
3 1/2"	2.300
4"	2.800
5"	4.600
6"	6.900
8"	11.800
10"	20.800
12"	30.300

**CAPS-EXTRA STRONG BW**

DIAM	WT/EA
1/2"	0.100
3/4"	0.160
1"	0.280
1 1/4"	0.480
1 1/2"	0.670
2"	0.920
2 1/2"	1.300
3"	2.100
3 1/2"	3.000
4"	3.500
5"	5.800
6"	9.300
8"	16.000
10"	26.000
12"	38.000

**CONCENTRIC STANDARD REDUCERS**

SIZE	WT/EA
3" X 2"	2.000
6" X 2"	6.500
6" X 3"	6.900
6" X 4"	7.400
8" X 3"	9.800
8" X 4"	10.800
8" X 6"	12.300
10" X 6"	20.700
10" X 8"	23.500
12" X 10"	32.400
16" X 12"	72.700
16" X 14"	75.400
18" X 16"	87.300
20" X 12"	118.000
24" X 18"	153.000
24" X 20"	156.000

**STRAIGHT TEES-STD BW**

SIZE	WT/EA
1/2"	0.350
3/4"	0.500
1"	0.750
1 1/4"	1.300
1 1/2"	1.900
2"	3.200
2 1/2"	5.800
3"	7.200

**STRAIGHT TEES-STD BW Continued**

SIZE	WT/EA
3 1/2"	9.500
4"	12.700
5"	20.800
6"	33.100
8"	56.500
10"	90.900
12"	136.000

**STRAIGHT TEES- XST BW**

SIZE	WT/EA
1/2"	0.370
3/4"	0.580
1"	0.870
1 1/4"	1.600
1 1/2"	2.300
2"	3.900
2 1/2"	6.500
3"	9.000
3 1/2"	12.200
4"	16.200
5"	26.600
6"	41.800
8"	76.200
10"	115.000
12"	169.000

**150# RAISED FACE W/N FLANGE XH**

DIAM	WT/EA
4"	26.200
6"	175.800

**150# RAISED FACE W/N FLANGE XST**

DIAM	WT/EA
2"	25.000
3"	48.000

**KEYSTOCK**



**CARBON STEEL**

**KEYSTOCK C1018 12'**

SIZE	WT/FT
1/8"	0.053
3/16"	0.120
1/4"	0.213
5/16"	0.332
3/8"	0.478
7/16"	0.651
1/2"	0.850
9/16"	1.080
5/8"	1.330
3/4"	1.910
7/8"	2.600
15/16"	2.988
1"	3.400
1 1/8"	4.300



**KEYSTOCK C1018 12' Continued**

SIZE	WT/FT
1 3/16"	4.795
1 1/4"	5.310
1 3/8"	6.428
1 1/2"	7.650
1 3/4"	10.410
2"	13.600
2 1/4"	17.210
2 1/2"	21.250
3"	30.600
3 1/2"	41.650
4"	54.400

**FLAT BAR**



**ALUMINUM**

**ALUMINUM FLAT 6061-T6 12'**

SIZE	WT/FT
1/4" X 1/2"	0.150
1/4" X 3/4"	0.226
1/4" X 1"	0.300
1/4" X 1 1/4"	0.375
1/4" X 1 1/2"	0.450
1/4" X 2"	0.600
1/4" X 2 1/2"	0.750
1/4" X 3"	0.900
1/4" X 4"	1.200
1/4" X 5"	1.500
1/4" X 6"	1.800
1/4" X 8"	2.424
3/8" X 1/2"	0.221
3/8" X 3/4"	0.331
3/8" X 1"	0.450
3/8" X 1 1/2"	0.676
3/8" X 2"	0.900
3/8" X 2 1/2"	1.126
3/8" X 3"	1.350
3/8" X 4"	1.800
3/8" X 8"	3.636
1/2" X 1"	0.600
1/2" X 1 1/2"	0.900
1/2" X 2"	1.200
1/2" X 2 1/2"	1.500
1/2" X 3"	1.764
1/2" X 4"	2.352
1/2" X 5"	3.000
1/2" X 6"	3.600
1/2" X 8"	4.704
3/4" X 1"	0.882
3/4" X 2"	1.764
3/4" X 3"	2.646
3/4" X 4"	3.594
1 X 2"	2.352

**CARBON STEEL**

**CR FLAT 12' R/L**

SIZE	WT/FT
1/4" X 3/8"	0.319
1/4" X 1/2"	0.425
1/4" X 5/8"	0.531
1/4" X 3/4"	0.638
1/4" X 1"	0.850
1/4" X 1 1/4"	1.060
1/4" X 1 1/2"	1.280
1/4" X 2"	1.700
1/4" X 3"	2.550
1/4" X 4"	3.400
1/4" X 5"	4.250
1/4" X 6"	5.100
1/4" X 8"	6.800
5/16" X 3/8"	0.398
5/16" X 1/2"	0.531
5/16" X 3/4"	0.797
3/8" X 1/2"	0.638
3/8" X 5/8"	0.797
3/8" X 3/4"	0.956
3/8" X 1"	1.280
3/8" X 1 1/4"	1.590
3/8" X 1 1/2"	1.910
3/8" X 2"	2.550
3/8" X 2 1/2"	3.190
3/8" X 3"	3.830
3/8" X 3 1/2"	4.460
3/8" X 4"	5.100
3/8" X 5"	6.375
3/8" X 8"	10.200
3/8" X 12"	15.300
7/16" X 1"	1.490
1/2" X 5/8"	1.070
1/2" X 3/4"	1.280
1/2" X 1"	1.700
1/2" X 1 1/4"	2.130
1/2" X 1 1/2"	2.550
1/2" X 2"	3.400
1/2" X 2 1/2"	4.250
1/2" X 2 3/4"	4.675
1/2" X 3"	5.100
1/2" X 4"	6.800
1/2" X 5"	8.500
1/2" X 6"	10.200
1/2" X 7"	11.900
1/2" X 8"	13.600
1/2" X 10"	17.000
5/8" X 3/4"	1.590
5/8" X 1"	2.130
5/8" X 1 1/4"	2.660
5/8" X 1 1/2"	3.160
5/8" X 1 3/4"	3.720
5/8" X 2"	4.250
5/8" X 2 1/2"	5.310
5/8" X 10"	21.250
3/4" X 1"	2.550
3/4" X 1 1/4"	3.190
3/4" X 1 1/2"	3.380

CR FLAT 12' R/L Continued

SIZE	WT/FT
3/4" X 2"	5.100
3/4" X 3"	7.650
3/4" X 4"	10.200
3/4" X 4 1/2"	11.490
3/4" X 6"	15.300
3/4" X 8"	20.400
3/4" X 10"	25.500
3/4" X 12"	30.600
7/8" X 1"	2.975
1" X 1 1/2"	5.100
1" X 1 3/4"	5.950
1" X 2"	6.800
1" X 2 1/2"	8.500
1" X 2 3/4"	9.350
1" X 3"	10.200
1" X 3 1/2"	11.900
1" X 4"	13.600
1" X 5"	17.000
1" X 6"	20.400
1" X 8"	27.200
1 1/4" X 6"	25.500
1 1/2" X 2"	10.200
1 1/2" X 2 1/2"	12.750
1 1/2" X 3"	15.300
1 1/2" X 4"	20.400
1 1/2" X 6"	30.600
2" X 3"	20.400
2" X 4"	27.200
3" X 4"	40.800
3" X 5"	51.000

HR FLAT A-36 20'

THICK	WIDTH	WT/FT
1/4"	1/2"	0.425
1/4"	3/4"	0.638
1/4"	1"	0.850
1/4"	1 1/4"	1.060
1/4"	1 1/2"	1.280
1/4"	1 3/4"	1.490
1/4"	2"	1.700
1/4"	2 1/4"	1.913
1/4"	2 1/2"	2.130
1/4"	2 3/4"	2.340
1/4"	3"	2.550
1/4"	3 1/2"	2.980
1/4"	4"	3.400
1/4"	4 1/2"	3.830
1/4"	5"	4.250
1/4"	5 1/2"	4.680
1/4"	6"	5.100
1/4"	7"	5.950
1/4"	8"	6.800
5/16"	1"	1.060
5/16"	1 1/4"	1.328
5/16"	1 1/2"	1.590
5/16"	2"	2.130
5/16"	3"	3.190
5/16"	4"	4.250
5/16"	4 1/2"	4.780

HR FLAT A-36 20' Continued

THICK	WIDTH	WT/FT
5/16"	5"	5.313
3/8"	3/4"	0.096
3/8"	1"	1.280
3/8"	1 1/4"	1.590
3/8"	1 1/2"	1.910
3/8"	1 3/4"	2.230
3/8"	2"	2.550
3/8"	2 1/4"	3.870
3/8"	2 1/2"	3.190
3/8"	3"	3.830
3/8"	3 1/2"	4.460
3/8"	4"	5.100
3/8"	4 1/2"	5.740
3/8"	5"	6.380
3/8"	5 1/2"	7.010
3/8"	6"	7.650
3/8"	7"	8.930
3/8"	8"	10.200
1/2"	3/4"	1.275
1/2"	1"	1.700
1/2"	1 1/4"	2.130
1/2"	1 1/2"	2.550
1/2"	1 3/4"	2.980
1/2"	2"	3.400
1/2"	2 1/2"	4.250
1/2"	3"	5.100
1/2"	3 1/2"	5.950
1/2"	4"	6.800
1/2"	4 1/2"	7.650
1/2"	5"	8.500
1/2"	5 1/2"	9.350
1/2"	6"	10.200
1/2"	7"	11.900
1/2"	8"	13.600
5/8"	1"	2.127
5/8"	1 1/4"	2.660
5/8"	1 1/2"	3.190
5/8"	1 3/4"	3.722
5/8" 1080	2"	4.250
5/8"	2 1/4"	4.781
5/8"	2 1/2"	5.310
5/8"	3"	6.380
5/8"	3 1/2"	7.440
5/8"	4"	8.500
5/8"	4 1/2"	9.560
5/8"	5"	10.630
5/8"	6"	12.750
5/8"	8"	17.000
3/4"	1 1/4"	3.190
3/4"	1"	2.550
3/4"	1 1/2"	3.830
3/4"	1 3/4"	4.463
3/4"	2"	5.100
3/4"	2 1/4"	5.738
3/4" 1080	2 1/2"	6.380
3/4"	3"	7.650
3/4"	3 1/2"	8.930
3/4"	4"	10.200
3/4"	4 1/2"	11.480
3/4"	5"	12.750

**HR FLAT A-36 20' Continued**

THICK	WIDTH	WT/FT
3/4"	6"	15.300
3/4"	7"	17.850
3/4"	8"	20.400
7/8"	3"	8.930
1"	1 1/4"	4.250
1"	2"	6.800
1"	2 1/2"	8.500
1"	1080 3"	10.200
1"	3 1/2"	11.900
1"	4"	13.600
1"	4 1/2"	15.300
1"	5"	17.000
1"	6"	20.400
1"	7"	23.800
1"	8"	27.200
1 1/4"	2 1/2"	10.630
1 1/4"	3"	12.750
1 1/4"	3 1/4"	13.810
1 1/4"	4"	17.000
1 1/4"	5"	21.250
1 1/4"	6"	25.500
1 1/4"	8"	34.000
1 1/2"	3"	15.300
1 1/2"	3 1/2"	17.850
1 1/2"	4"	20.400
1 1/2"	4 1/2"	22.950
1 1/2"	5"	25.500
1 1/2"	6"	30.900
1 1/2"	8"	40.800
1 3/4"	2 1/2"	14.800
1 3/4"	4"	23.800
2"	3"	20.400
2"	4"	27.200
2"	4 1/2"	30.600
2"	5"	34.000
2"	6"	40.800
2"	8"	54.400

**UM PLATE 20'**

THICK	WIDTH	WT/SQFT
1/4"	9"	7.650
1/4"	10"	8.500
1/4"	11"	9.350
1/4"	12"	10.200
3/8"	10"	12.800
3/8"	12"	15.300
1/2"	9"	15.300
1/2"	10"	17.000
1/2"	12"	20.400
5/8"	10"	21.250
5/8"	12"	25.500
3/4"	10"	25.500
3/4"	12"	30.600
1"	10"	34.000
1"	12"	40.800

**GALVANIZED**

**GALVANIZED FLAT 20'**

THICK	WIDTH	WT/FT
3/16"	4"	2.730
1/4"	2"	1.820
1/4"	3"	2.730
1/4"	4"	3.640
1/4"	5"	4.460

**STAINLESS**

**STAINLESS FLAT T-304 12'**

THICK	WIDTH	WT/FT
1/4"	1/2"	0.425
1/4"	3/4"	0.638
1/4"	1"	0.850
1/4"	1 1/4"	1.063
1/4"	1 1/2"	1.275
1/4"	2"	1.700
1/4"	2 1/2"	2.125
1/4"	3"	2.550
1/4"	4"	3.400
1/4"	6"	5.100
1/4"	8"	6.800
3/8"	1 1/4"	1.594
3/8"	2"	2.550
3/8"	2 1/2"	3.190
3/8"	3"	3.825
3/8"	4"	5.100
1/2"	2"	3.400
1/2"	4"	6.800

**STAINLESS FLAT T-316 12'**

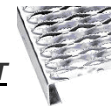
THICK	WIDTH	WT/FT
1/4"	1"	0.930
1/4"	1 1/4"	1.160
1/4"	2"	1.860
1/4"	2 1/2"	2.325
3/8"	1 1/2"	1.910
3/8"	2"	2.325

**FLAT METAL - SEE EXPANDED METAL**

**ALUMINUM**

**ALUMINUM GRIP STRUT**

WIDTH	DEPTH	GA	WT/FT
4 3/4"	2"	12	0.900
7"	1 1/2"	12	1.080



**GRIP STRUT 10'**

WIDTH	DEPTH	GA	WT/FT
7"	1 1/2"	12	4.100
7"	2"	12	4.253
9 1/2"	1 1/2"	12	5.000
9 1/2"	2"	12	5.121
11 3/4"	1 1/2"	12	5.900
11 3/4"	2"	12	6.200
11 3/4"	2"	14	4.400
18 3/4"	2"	14	6.300

**GALVANIZED**

**GALVANIZED GRIP STRUT**

WIDTH	DEPTH	GA	L	WT/FT
4 3/4"	2"	14	10'	3.600
4 3/4"	2"	12	10'	3.600
4 3/4"	1 1/2"	12	12'	3.080
11 3/4"	2"	12	10'	6.200
18 3/4"	2"	12	10'	10.400
24"	2"	12	12'	8.900

**GALVANIZED WALKWAY GRIP STRUT**

WIDTH	DEPTH	L	WT/FT
24"	4 1/2"	10'	12.500

**GALVANIZED SERRATED GRATING 19-W-4**

BEARING BARS	SIZE	WT/SQFT
3/16" X 1"	24 X 240	7.350
3/16" X 1"	36 X 240	7.350
3/16" X 1"	36 X 288	7.350
3/16" X 1 1/4"	36 X 240	9.030
3/16" X 1 1/2"	36 X 240	10.300

**HEXBAR**

**CARBON STEEL**

**HEXBAR C1018 12'**

DIAM	WT/FT
1/4"	0.184
5/16"	0.288
3/8"	0.414
7/16"	0.564
1/2"	0.736
9/16"	0.932
5/8"	1.150
11/16"	1.390
3/4"	1.660
7/8"	2.250
15/16"	2.590
1"	2.940
1 1/16"	3.320
1 1/8"	3.730
1 1/4"	4.600
1 3/8"	5.570
1 1/2"	6.630



**HEXBAR C1018 12' Continued**

DIAM	WT/FT
1 3/4"	9.020
2"	11.780
2 1/4"	14.910
2 1/2"	18.400
2 3/4"	22.270
3"	26.500
3 1/4"	31.100
3 1/2"	36.070
3 3/4"	41.400
4"	47.120

**STRESS PROOF-HEXBAR**

DIAM	WT/FT
3/4"	1.660
1"	2.940

**MISCELLANEOUS**

**ALUMINUM**

**LADDER RUNGS .125 (ALUM) 5'**

WIDTH	THICK	L	WT/FT
1 5/8"	.125	5'	0.500
2 1/4"	.125	5'	0.520

**LADDER RUNGS 13GA (BLK) 5'**

WIDTH	GA	WT/FT
1 5/8"	13GA BLK	1.300
2 1/4"	13GA BLK	1.500

**STAINLESS**

**LADDER RUNGS 14GA STAINLESS 5'**

WIDTH	GA	WT/FT
1 5/8"	14GA	1.100
2 1/4"	14GA	1.200

**BLADE STEEL**

SIZE	WT/FT
9/32" X 4"	3.45

**GRADER BLADES**

1/4" GRADER BLADES 3"-3"-3"-3"

**CARBON STEEL**

**CONTINUOUS HINGES**

GA	OPEN	CLOSED	PIN DIAM	THICK.	L
.050	1 1/2	3/4	.120	1/2	8'
.060	1 1/2	3/4	.120	1/2	8'
.070	1 1/2	3/4	.250	1	8'
.070	2 1/2	1 1/4	.250	1	8'
.070	2 1/2	1 1/4	.250	1	10'



**CONTINUOUS HINGES Continued**

GA	OPEN	CLOSED	PIN DIAM	THICK.	L
.070	2	1	.250	1	8'
.070	3	1 1/2	.250	1	6'
.070	3	1 1/2	.250	1	8'
.070	4	2	.250	1	8'
.120	5	2 1/2	.500	2	6'

**STAINLESS CONTINUOUS HINGES**

GA	OPEN	CLOSED	PIN DIAM	KNUCKLE	L
.070	1 1/2	3/4	.250	1	8'
.070	2	1	.250	1	8'
.070	3	1 1/2	.250	1	8'

**GALVANIZED ALL THREAD 10'**

DIAM	WT/FT
1/4"	0.167
5/16"	0.261
3/8"	0.376
1/2"	0.668
5/8"	1.040
3/4"	1.500
7/8"	2.040
1"	2.670
1 1/8"	3.380
1 1/4"	4.170
1 1/2"	6.010
1 3/4"	8.180
2"	10.680

**STAINLESS**

**STAINLESS ALL THREAD 12'**

SIZE	WT/FT
1/4"	0.167
5/16"	0.261
3/8"	0.376
1/2"	0.668
5/8"	1.040
3/4"	1.500

**PIPE**

**ALUMINUM**

**ALUMINUM O.D. PIPE 6061-T6 24'**

OD	ID	WALL	WT/FT
5"	4.500	0.250	4.387
6"	5.500	0.250	5.311
8"	7.750	0.125	3.637
9"	8.500	0.250	8.540

**ALUMINUM PIPE SCH40 6061-T6**

SIZE	OD	ID	WALL	WT/FT
1/2"	0.840	0.622	0.109	0.294
3/4"	1.050	0.824	0.113	0.391
1"	1.315	1.049	0.133	0.581

**ALUMINUM PIPE SCH40 6061-T6 Continued**

SIZE	OD	ID	WALL	WT/FT
1 1/4"	1.660	1.380	0.140	0.786
1 1/2"	1.900	1.610	0.145	0.940
2"	2.375	2.067	0.154	1.264
4"	4.500	4.026	0.237	3.733
6"	6.625	6.065	0.280	6.564

**ALUMINUM PIPE SCH80 6061-T6**

SIZE	OD	ID	WALL	WT/FT
1 1/4"	1.660	1.278	0.191	1.037
1 1/2"	1.900	1.500	0.200	1.256
2"	2.375	1.939	0.218	1.737

**CARBON STEEL - BLACK PIPE**

**BLACK PIPE SCH80 A-53B 21'**

SIZE	OD	ID	WALL	WT/FT
1/4"	0.540	0.302	0.119	0.540
3/8"	0.675	0.423	0.126	0.740
1/2"	0.840	0.546	0.147	1.090
3/4"	1.050	0.742	0.154	1.470
1"	1.315	0.957	0.179	2.170
1 1/4"	1.660	1.278	0.191	3.000
1 1/2"	1.900	1.500	0.200	3.630
2"	2.375	1.939	0.218	5.020
2 1/2"	2.875	2.323	0.276	7.660
3"	3.500	2.900	0.300	10.250
3 1/2"	4.000	3.364	0.318	12.510
4"	4.500	3.826	0.337	14.980
5"	5.563	4.813	0.375	20.780
6"	6.625	5.761	0.432	28.570
8"	8.625	7.625	0.500	43.390



**CARBON STEEL - BLACK PIPE**

**BLACK PIPE SCH80 A-53B 21 \*DOMESTIC\***

SIZE	OD	ID	WALL	WT/FT
2"	2.375	1.939	0.218	5.020
2 1/2"	2.875	2.323	0.276	7.660
3"	3.500	2.900	0.300	10.250
4"	4.500	3.826	0.337	14.980
5"	5.563	4.813	0.375	20.780

**BLACK PIPE SCH20 A-53B 21'**

SIZE	OD	ID	WALL	WT/FT
10"	10.750	10.250	0.250	28.040

**CARBON STEEL - BLACK PIPE**

**BLACK PIPE SCH40 A-53B 21'**

SIZE	OD	ID	WALL	WT/FT
1/8"	0.405	0.269	0.068	0.240
1/4"	0.540	0.360	0.088	0.420
3/8"	0.675	0.493	0.091	0.570
1/2"	0.840	0.622	0.109	0.850
3/4"	1.050	0.824	0.113	1.130

**BLACK PIPE SCH40 A-53B 21' Continued**

SIZE	OD	ID	WALL	WT/FT
1"	1.315	1.049	0.133	1.680
1 1/4"	1.660	1.380	0.140	2.270
1 1/2"	1.900	1.610	0.145	2.720
2"	2.375	2.067	0.154	3.650
2 1/2"	2.875	2.469	0.203	5.790
3"	3.500	3.068	0.216	7.580
3 1/2"	4.000	3.548	0.226	9.110
4"	4.500	4.026	0.237	10.790
5"	5.563	5.047	0.258	14.640
6"	6.625	6.065	0.280	18.970
8"	8.625	8.071	0.322	28.550
10"	10.750	10.000	0.365	40.480
12"	12.750	12.000	0.375	49.560

**CARBON STEEL - BLACK PIPE**

**BLACK PIPE SCH40 A-53B 21' \*DOMESTIC\*\***

SIZE	OD	ID	WALL	WT/FT
2"	2.375	2.067	0.154	3.650
2 1/2"	2.875	2.469	0.203	5.790
3"	3.500	3.068	0.216	7.580
3 1/2"	4.000	3.548	0.226	9.110
4"	4.500	4.026	0.237	10.790
5"	5.563	5.047	0.258	14.640
6" D	6.625	6.065	0.280	18.970

**BLACK PIPE SCH40/SEAMLESS A-106/A-53B R/L**

SIZE	OD	ID	L	WT/FT
1/4"	0.540	0.360	21'	0.420
3/8"	0.675	0.493	21'	0.570
1/2"	0.840	0.622	21'	0.850
3/4"	1.050	0.824	21'	1.130
1"	1.315	1.049	21'	1.680
1 1/4"	1.660	1.380	21'	2.270
1 1/2"	1.900	1.610	21'	2.720
2"	2.375	2.067	21'/40'	3.650
2 1/2"	2.875	2.469	21'/40'	5.790
3"	3.500	3.068	21'/40'	7.580
3 1/2"	4.500	4.026	21'/40'	9.110
4"	6.625	6.065	21'/40'	10.790
5"	5.563	5.047	40'	14.630
6"	6.625	6.065	21'/40'	18.970
8"	8.625	8.071	21'/40'	28.550
10"	10.750	10.000	21'/40'	40.480

**CARBON STEEL - BLACK PIPE**

**BLACK PIPE SCH80/SEAMLESS A-106/A-53B R/L**

SIZE	OD	ID	WALL	L	WT/FT
1/8"	0.405	0.215	0.095	21'	0.310
3/8"	0.405	0.215	0.095	21'	0.310
1/2"	0.840	0.546	0.147	21'	1.090
3/4"	1.050	0.742	0.154	21'	1.470
1"	1.315	0.957	0.179	21'	2.170
1 1/4"	1.660	1.278	0.191	21'	3.000
1 1/2"	1.900	1.500	0.200	21'	3.630
2"	2.375	1.939	0.218	21'	5.020

**BLACK PIPE SCH80/SEAMLESS A-106/A-53B R/L Continued**

SIZE	OD	ID	WALL	L	WT/FT
2 1/2"	2.875	2.323	0.276	21'	7.660
3"	3.500	2.900	0.300	21'/40'	10.250
3 1/2"	4.000	3.364	0.318	21'	12.520
4"	4.500	3.826	0.337	21'/40'	14.980
6"	6.625	5.761	0.432	21'/40'	28.570
8"	8.625	7.625	0.500	21'/40'	43.490
10"	10.750	9.562	0.594	21'/40'	64.530

**BLACK PIPE SCH120/SEAMLESS R/L**

SIZE	OD	ID	WALL	L	WT/FT
4"	4.500	3.438	0.531	21'/40'	19.000

**BLACK PIPE SCH160/SEAMLESS A-106/A-53B R/L**

SIZE	OD	ID	WALL	L	WT/FT
1/2"	0.840	0.464	0.188	21'	1.310
3/4"	1.050	0.612	0.219	21'	1.940
1"	1.315	0.815	0.250	21'	2.840
1 1/4"	1.660	1.160	0.250	21'	3.760
1 1/2"	1.900	1.338	0.281	21'	4.860
2"	2.375	1.687	0.344	21'/40'	7.460
2 1/2"	2.875	2.125	0.375	21'/40'	10.010
3"	3.500	2.624	0.438	21'/40'	14.320
4"	4.500	3.438	0.531	21'/40'	22.510

**\*40' LENGTHS ARE NOT ALWAYS STOCKED WITHOUT CUSTOMER SUPPLIED FORECASTS**

**BLACK PIPE T & C A-53B 21'**

SIZE	OD	ID	WALL	WT/FT
1/2"	0.840	0.622	0.109	0.850
3/4"	1.050	0.824	0.113	1.130
1"	1.315	1.049	0.133	1.680
1 1/4"	1.660	1.380	0.140	2.270
1 1/2"	1.900	1.610	0.145	2.720
2"	2.375	2.067	0.154	3.650
2 1/2"	2.875	2.469	0.203	5.790
3"	3.500	3.068	0.216	7.580
4"	4.500	4.026	0.237	10.790
5"	5.563	5.047	0.258	14.640
6"	6.625	6.065	0.280	18.970

**BLUE PIPE SCH80/SEAMLESS R/L**

SIZE	OD	ID	WALL	WT/FT
3/4"	1.050	0.742	0.154	1.470

**GALVANIZED**

**GALVANIZED PIPE PE A-53 21'**

SIZE	OD	ID	WALL	WT/FT
1"	1.315	1.049	0.133	1.680
1 1/4"	1.660	1.380	0.140	2.270
1 1/2"	1.900	1.610	0.145	2.720
2"	2.375	2.067	0.154	3.650
3"	3.500	3.068	0.216	7.580
3 1/2"	4.000	3.548	0.226	9.110
4"	4.500	4.026	0.237	10.790

**GALVANIZED PIPE PE A-53 21' Continued**

SIZE	OD	ID	WALL	WT/FT
5"	5.563	5.047	0.258	14.620
6"	6.625	6.065	0.280	18.970
8"	8.625	7.981	0.322	28.550

**GALVANIZED PIPE T & C A-53 21'**

SIZE	OD	ID	WALL	WT/FT
1/4"	0.540	0.364	0.088	0.420
3/8"	0.675	0.493	0.091	0.570
1/2"	0.840	0.622	0.109	0.850
3/4"	1.050	0.824	0.113	1.130
1"	1.315	1.049	0.133	1.680
1 1/4"	1.660	1.380	0.140	2.270
1 1/2"	1.900	1.610	0.145	2.720
2"	2.375	2.067	0.154	3.650
2 1/2"	2.875	2.469	0.203	5.790
3"	3.500	3.068	0.216	7.580
4"	4.500	4.026	0.237	10.790

**LIGHT WALL O.D. PIPE**

SIZE	OD	ID	WALL	WT/FT
4"	4.000	3.782	0.109	4.370
4"	4.000	3.732	0.134	5.533
4 1/2"	4.500	4.260	0.120	5.613
5"	5.000	4.834	0.083	4.359
5"	5.000	4.782	0.109	5.694
5"	5.000	4.500	0.250	12.680
5"	5.000	4.760	0.120	6.250
5"	5.000	4.732	0.134	6.964
6"	6.000	5.782	0.109	6.858
6"	6.000	5.760	0.120	7.536
6"	6.000	5.732	0.134	8.395
6"	6.000	5.624	0.188	11.670
6"	6.000	5.500	0.250	15.353
6 5/8"	6.625	6.495	0.065	4.550
6 5/8"	6.625	6.407	0.109	7.585
6 5/8"	6.625	6.385	0.120	8.337
6 5/8"	6.625	6.249	0.188	12.924
7"	7.000	6.782	0.109	8.022
7"	7.000	6.750	0.125	9.178
8"	8.000	7.834	0.083	7.018
8"	8.000	7.782	0.109	9.186
8"	8.000	7.732	0.134	11.600
8"	8.000	7.624	0.188	15.600
8"	8.000	7.500	0.250	20.690
8 5/8"	8.625	8.459	0.083	7.580
8 5/8"	8.625	8.407	0.109	9.914
8 5/8"	8.625	8.355	0.134	12.150
8 5/8"	8.625	8.249	0.188	16.960
8 5/8"	8.625	8.125	0.250	22.361
10"	10.000	9.782	0.109	11.510
10"	10.000	9.732	0.134	14.120
10"	10.000	9.624	0.188	19.700
10 3/4"	10.750	10.530	0.109	14.180
10 3/4"	10.750	10.432	0.134	15.190
12"	12.000	1.782	0.109	13.840
12"	12.000	11.732	0.134	16.980
12 3/4"	12.750	12.250	0.250	33.410
14"	14.000	13.500	0.250	36.710

**LIGHT WALL O.D. PIPE Continued**

SIZE	OD	ID	WALL	WT/FT
14"	14.000	13.250	0.375	54.620
16"	16.000	15.500	0.250	42.050
16"	16.000	15.250	0.375	62.580
16"	16.000	14.688	0.656	107.500
18"	18.000	17.500	0.250	47.390
18"	18.000	17.250	0.375	70.590
20"	20.000	19.500	0.250	52.730
20"	20.000	19.250	0.375	78.600
22"	22.000	21.250	0.375	87.500
24"	24.000	23.500	0.250	63.410
24"	24.000	23.250	0.375	94.620
26"	26.000	25.250	0.375	102.630
30"	30.000	29.250	0.375	118.650

**UNPAINTED PIPE**

**UNPAINTED PIPE SCH10 21'**

SIZE	OD	ID	WALL	WT/FT
1 1/4"	1.660	1.442	0.109	1.810
1 1/2"	1.900	1.682	0.109	2.080
2"	2.375	2.157	0.109	2.638

**UNPAINTED PIPE SCH40 21'**

SIZE	OD	ID	WALL	WT/FT
1/2"	0.840	0.622	0.109	0.850
3/4"	1.050	0.824	0.113	1.130
1"	1.315	1.049	0.133	1.680
1 1/4"	1.660	1.380	0.140	2.270
1 1/2"	1.900	1.610	0.145	2.720
2"	2.375	2.067	0.154	3.650
2 1/2"	2.875	2.469	0.203	5.790
3"	3.500	3.068	0.216	7.580
3 1/2"	4.000	3.548	0.226	9.120
6"	6.625	6.065	0.280	18.970
8"	8.625	8.071	0.322	28.550
10"	10.750	10.000	0.365	40.480
12"	12.750	12.000	0.375	49.560

**IMPORT UNPAINTED PIPE**

SIZE	OD	ID	WALL	WT/FT
2"	2.375	2.067	0.154	3.650
2 1/2"	2.875	2.469	0.203	5.790

**UNPAINTED PIPE SCH80 2'**

SIZE	OD	ID	WALL	WT/FT
2"	2.375	1.939	0.218	5.020

**SEAMLESS PIPE XH R/L 21/40'**

SIZE	OD	ID	WALL	WT/FT
9"	9.625	8.625	0.500	48.730
12"	12.750	11.750	0.500	65.420

**SEAMLESS PIPE XXH R/L**

SIZE	OD	ID	WALL	WT/FT
3/4"	1.050	0.434	0.308	2.440
1"	1.315	0.599	0.358	3.660
2"	2.375	1.503	0.436	9.040
2 1/2"	2.875	1.771	0.552	13.740
3"	3.500	2.300	0.600	18.580
4"	4.500	3.152	0.674	27.540

**STAINLESS**

**STAINLESS PIPE T-304 SCH10 20'**

SIZE	OD	ID	WALL	WT/FT
3"	3.500	3.260	0.120	4.330

**STAINLESS PIPE T-304 SCH40 20'**

SIZE	OD	ID	WALL	WT/FT
1/8"	0.405	0.269	0.068	0.240
1/4"	0.540	0.364	0.088	0.430
3/8"	0.675	0.493	0.091	0.568
1/2"	0.840	0.622	0.109	0.851
3/4"	1.050	0.824	0.113	1.131
1"	1.315	1.049	0.133	1.680
1 1/4"	1.660	1.380	0.140	2.273
1 1/2"	1.900	1.610	0.145	2.718
2"	2.375	2.067	0.154	3.653
2 1/2"	2.875	2.469	0.203	5.790
3"	3.500	3.068	0.216	7.580
4"	4.500	4.026	0.237	10.790
8"	8.625	7.876	0.062	5.504

**STAINLESS PIPE T-316 SCH40 20'**

SIZE	OD	ID	WALL	WT/FT
1/2"	0.840	0.622	0.109	0.851
3/4"	1.050	0.824	0.113	1.131
1"	1.315	1.049	0.133	1.680
1 1/4"	1.660	1.380	0.140	2.273
1 1/2"	1.900	1.610	0.145	2.718
2"	2.375	2.067	0.154	3.653

**STAINLESS PIPE SCH80 T-304**

SIZE	OD	ID	WALL	WT/FT
1"	1.315	0.957	0.179	2.190
2"	2.375	1.939	0.218	5.020

**STAINLESS PIPE SCH80 T-316**

SIZE	OD	ID	WALL	WT/FT
1"	1.315	0.957	0.179	2.170

**PLATE**



**ALUMINUM**

**ALUMINUM FLOOR PLATE 3003-T6 DIAMOND PLATE**

THICK	SIZE	WT/SQFT
.080	48" X 96"	1.283
.080	48" X 192"	1.283
.100	48" X 192"	1.568
.125	48" X 96"	1.925
.125	48" X 144"	1.925
.125	48" X 192"	1.925
.188	48" X 96"	2.823
.188	48" X 192"	2.823
.188	60" X 192"	2.823
.250	48" X 96"	3.690
.250	48" X 192"	3.690

**ALUMINUM FLOOR PLATE 6061-T6 DIAMOND PLATE**

THICK	SIZE	WT/SQFT
.188	60" X 192"	2.794
.250	48" X 96"	3.669
.250	48" X 192"	3.669
.375	48" X 96"	5.443

**ALUMINUM PLATE 5052 H-32**

THICK	SIZE	WT/SQFT
.190	48" X 144"	2.654
.190	48" X 120"	2.654
.190	60" X 120"	2.654
.250	48" X 96"	3.492
.250	48" X 144"	3.492
.375	48" X 144"	5.292

**ALUMINUM PLATE 6061-T6**

THICK	SIZE	WT/SQFT
.190	48" X 144"	2.681
.250	48" X 144"	3.711
.375	48" X 144"	5.440
.500	48" X 144"	7.272

**CARBON STEEL**

**AR PLATE**

THICK	SIZE	BRINELL	WT/SQFT
3/16"	72" X 120"	235	7.660
3/16"	72" X 240"	235	7.660
1/4"	72" X 120"	235	10.210
1/4"	72" X 240"	235	10.210
1/4"	72" X 288"	235	10.210
1/4"	96" X 240"	235	10.210
1/4"	96" X 120"	235	10.210
1/4"	96" X 288"	235	10.210
3/8"	72" X 120"	235	15.320
3/8"	72" X 240"	235	15.320
3/8"	96" X 240"	235	15.320
1/2"	60" X 120"	235	20.420



### AR PLATE Continued

THICK	SIZE	BRINELL	WT/SQFT
1/2"	72" X 144"	235	20.420
1/2"	72" X 120"	235	20.420
1/2"	72" X 240"	235	20.420
1/2"	72" X 288"	235	20.420
1/2"	96" X 240"	400	20.420
3/7"	96" X 240"	400	30.630

### FLOOR PLATE (DIAMOND PLATE)

THICK	SIZE	WT/SQFT
1/8"	48" X 96"	6.160
1/8"	48" X 120"	6.160
1/8"	48" X 144"	6.160
1/8"	48" X 240"	6.160
1/8"	60" X 96"	6.160
1/8"	60" X 120"	6.160
1/8"	72" X 96"	6.160
1/8"	72" X 120"	6.160
1/8"	72" X 144"	6.160
1/8"	72" X 240"	6.160
3/16"	48" X 96"	8.710
3/16"	48" X 120"	8.710
3/16"	48" X 144"	8.710
3/16"	48" X 240"	8.710
3/16"	60" X 96"	8.710
3/16"	60" X 120"	8.710
3/16"	60" X 144"	8.710
3/16"	60" X 240"	8.710
3/16"	72" X 120"	8.710
3/16"	72" X 144"	8.710
3/16"	72" X 240"	8.710
3/16"	96" X 120"	8.710
3/16"	96" X 240"	8.710
1/4"	48" X 96"	11.260
1/4"	48" X 120"	11.260
1/4"	48" X 240"	11.260
1/4"	60" X 120"	11.260
1/4"	60" X 96"	11.260
1/4"	60" X 240"	11.260
1/4"	72" X 96"	11.260
1/4"	72" X 120"	11.260
1/4"	72" X 240"	11.260
1/4"	96" X 120"	11.260
1/4"	96" X 144"	11.260
1/4"	96" X 240"	11.260
3/8"	60" X 120"	16.370
3/8"	60" X 240"	16.370
3/8"	72" X 120"	16.370
3/8"	72" X 240"	16.370
3/8"	96" X 120"	16.370
3/8"	96" X 240"	16.370
3/8"	48" X 96"	16.370
3/8"	48" X 120"	16.370
1/2"	96" X 120"	21.470
1/2"	96" X 240"	21.470

### PLATE STEEL ALLOY

THICK	SA516-70	SIZE	WT/SQFT
3/16"	SA516-70	96" X 240"	7.660
1/4"	A-588-A CORTEN	96" X 240"	10.213
1/4"	SA516-70	72" X 240"	10.210
1/4"	SA516-70	96" X 168"	10.210
1/4"	SA516-70	96" X 144"	10.210
1/4"	SA516-70	96" X 480"	10.210
1/4"	SA516-70	96" X 486"	10.210
1/4"	SA516-70	96" X 48"	10.210
1/4"	SA516-70	6.5" X 144"	10.210
1/4"	SA516-70	7" X 144"	10.210
1/4"	SA516-70	7.5" X 144"	10.210
1/4"	SA516-70	8" X 144"	10.210
1/4"	SA516-70	8.5" X 144"	10.210
1/4"	SA516-70	9.0" X 144"	10.210
1/4"	SA516-70	9.5" X 144"	10.210
1/4"	SA516-70	10" X 144"	10.210
1/4"	SA516-70	11" X 144"	10.210
1/4"	SA516-70	12" X 144"	10.210
1/4"	A572-50	96" X 360"	10.210
1/4"	A572-50	120" X 120"	10.210
1/4"	A572-50	120" X 240"	10.210
1/4"	A572-50	120" X 480"	10.210
5/16"	SA516-70	96" X 240"	12.760
3/8"	A572-50 DOM	96" X 240"	15.320
3/8"	SA516-70	72" X 240"	15.320
7/16"	SA516-70	96" X 160"	17.870
1/2"	A572-50 DOM	96" X 240"	20.420
1/2"	SA516-70	96" X 120"	20.425
1/2"	SA516-70	48" X 96"	20.420
3/8"	A572-50	96" X 240"	7.658
3/4"	SA516-70	96" X 240"	30.630
3/4"	SA516-70	120" X 240"	30.360
7/8"	SA516-70	96" X 240"	35.740
1 1/8"	SA516-70	96" X 240"	45.950
1 1/4"	SA516-70	96" X 240"	51.050

### SMOOTH PLATE

THICK	SIZE	WT/SQFT
3/16"	48" X 48"	7.660
3/16"	48" X 96"	7.660
3/16"	48" X 109"	7.660
3/16"	48" X 120"	7.660
3/16"	48" X 144"	7.660
3/16"	48" X 168"	7.660
3/16"	48" X 240"	7.660
3/16"	60" X 96"	7.660
3/16"	60" X 104"	7.660
3/16"	60" X 109"	7.660
3/16"	60" X 120"	7.660
3/16"	60" X 127"	7.660
3/16"	60" X 132"	7.660
3/16"	60" X 147"	7.660
3/16"	60" X 240"	7.660
3/16"	60" X 260"	7.660
3/16"	60" X 144"	7.660
3/16"	60" X 454"	7.660
3/16"	72" X 96"	7.660
3/16"	72" X 120"	7.660

SMOOTH PLATE Continued

THICK	SIZE	WT/SQFT
3/16"	72" X 240"	7.660
3/16"	72" X 585"	7.660
3/16"	72" X 144"	7.660
3/16"	84" X 136"	7.660
3/16"	72" X 260"	7.660
3/16"	72" X 300"	7.660
3/16"	84" X 120"	7.660
3/16"	84" X 240"	7.660
3/16"	84" X 127"	7.660
3/16"	96" X 260"	7.660
3/16"	96" X 250"	7.660
3/16"	96" X 120"	7.660
3/16"	96" X 240"	7.660
3/16"	96" X 144"	7.660
3/16"	96" X 302"	7.660
3/16"	96" X 240"	7.660
3/16"	96" X 360"	7.660
3/16"	96" X 320"	7.660
3/16"	60" X 108"	7.660
1/4"	48" X 48"	10.210
1/4"	48" X 96"	10.210
1/4"	48" X 120"	10.210
1/4"	48" X 240"	10.210
1/4"	48" X 144"	10.210
1/4"	60" X 60"	10.210
1/4"	60" X 96"	10.210
1/4"	60" X 120"	10.210
1/4"	60" X 108"	10.210
1/4"	60" X 104"	10.210
1/4"	60" X 226"	10.210
1/4"	60" X 240"	10.210
1/4"	60" X 250"	10.210
1/4"	60" X 480"	10.210
1/4"	60" X 144"	10.210
1/4"	60" X 151"	10.210
1/4"	60" X 147"	10.210
1/4"	72" X 176"	10.210
1/4"	72" X 120"	10.210
1/4"	72" X 96"	10.210
1/4"	72" X 174"	10.210
1/4"	72" X 189"	10.210
1/4"	72" X 240"	10.210
1/4"	72" X 246"	10.210
1/4"	72" X 260"	10.210
1/4"	96" X 190"	10.210
1/4"	72" X 396"	10.210
1/4"	72" X 144"	10.210
1/4"	72" X 204"	10.210
1/4"	72" X 207"	10.210
1/4"	72" X 300"	10.210
1/4"	72" X 306"	10.210
1/4"	84" X 120"	10.210
1/4"	84" X 302"	10.210
1/4"	84" X 144"	10.210
1/4"	96" X 302"	10.210
1/4"	96" X 480"	10.210
1/4"	84" X 240"	10.210
1/4"	96" X 168"	10.210
1/4"	96" X 260"	10.210
1/4"	96" X 144"	10.210

SMOOTH PLATE Continued

THICK	SIZE	WT/SQFT
1/4"	96" X 120"	10.210
1/4"	96" X 240"	10.210
1/4"	96" X 250"	10.210
1/4"	96" X 396"	10.210
1/4"	120" X 240"	10.210
1/4"	120" X 480"	10.210
1/4"	96" X 360"	10.210
1/4"	96" X 96"	10.210
1/4"	96" X 101"	10.210
1/4"	96" X 126"	10.210
1/4"	96" X 128"	10.210
1/4"	96" X 282"	10.210
1/4"	96" X 284"	10.210
1/4"	72" X 270"	10.210
1/4"	84" X 270"	10.210
1/4"	96" X 192"	10.210
5/16"	48" X 96"	12.760
5/16"	48" X 120"	12.760
5/16"	48" X 144"	12.760
5/16"	48" X 240"	12.760
5/16"	60" X 96"	12.760
5/16"	60" X 120"	12.760
5/16"	60" X 144"	12.760
5/16"	60" X 240"	12.760
5/16"	72" X 96"	12.760
5/16"	72" X 120"	12.760
5/16"	72" X 144"	12.760
5/16"	72" X 240"	12.760
5/16"	96" X 120"	12.760
5/16"	96" X 240"	12.760
5/16"	96" X 302"	12.760
3/8"	48" X 96"	15.320
3/8"	48" X 120"	15.320
3/8"	48" X 240"	15.320
3/8"	48" X 144"	15.320
3/8"	60" X 96"	15.320
3/8"	60" X 120"	15.320
3/8"	60" X 240"	15.320
3/8"	60" X 144"	15.320
3/8"	72" X 120"	15.320
3/8"	72" X 240"	15.320
3/8"	72" X 480"	15.320
3/8"	72" X 360"	15.320
3/8"	72" X 288"	15.320
3/8"	72" X 144"	15.320
3/8"	120" X 480"	15.320
3/8"	120" X 240"	15.320
3/8"	120" X 360"	15.320
3/8"	96" X 120"	15.320
3/8"	96" X 240"	15.320
1/2"	48" X 48"	20.420
1/2"	48" X 96"	20.420
1/2"	48" X 120"	20.420
1/2"	48" X 144"	20.420
1/2"	48" X 240"	20.420
1/2"	60" X 96"	20.420
1/2"	60" X 120"	20.420
1/2"	60" X 240"	20.420
1/2"	60" X 144"	20.420
1/2"	72" X 120"	20.420

**SMOOTH PLATE Continued**

THICK	SIZE	WT/SQFT
1/2"	72" X 144"	20.420
1/2"	72" X 96"	20.420
1/2"	72" X 145"	20.420
1/2"	72" X 240"	20.420
1/2"	96" X 120"	20.420
1/2"	72" X 480"	20.420
1/2"	96" X 240"	20.420
1/2"	120" X 240"	20.420
1/2"	120" X 480"	20.420
1/2"	120" X 288"	20.420
1/2"	96" X 241"	20.420
1/2"	96" X 385"	20.420
1/2"	96" X 340"	20.420
1/2"	96" X 480"	20.420
5/8"	48" X 96"	25.530
5/8"	48" X 120"	25.530
5/8"	60" X 96"	25.530
5/8"	60" X 120"	25.530
5/8"	60" X 144"	15.320
5/8"	60" X 240"	25.530
5/8"	72" X 120"	25.530
5/8"	72" X 240"	25.530
5/8"	96" X 120"	25.530
5/8"	96" X 240"	25.530
5/8"	96" X 482"	25.530
3/4"	48" X 96"	30.630
3/4"	60" X 120"	30.630
3/4"	60" X 240"	30.630
3/4"	72" X 120"	30.630
3/4"	72" X 121"	30.630
3/4"	72" X 240"	30.630
3/4"	96" X 120"	30.630
3/4"	96" X 144"	30.360
3/4"	96" X 288"	30.360
3/4"	96" X 240"	30.630
3/4"	120" X 240"	30.360
3/4"	120" X 480"	30.360
7/8"	60" X 120"	35.740
7/8"	60" X 240"	35.740
7/8"	96" X 240"	35.740
7/8"	96" X 120"	35.740
7/8"	72" X 120"	35.740
7/8"	72" X 240"	35.740
7/8"	96" X 480"	35.740
1"	48" X 96"	40.840
1"	60" X 120"	40.840
1"	60" X 240"	40.840
1"	72" X 120"	40.840
1"	72" X 127"	40.840
1"	72" X 254"	40.840
1"	72" X 240"	40.840
1"	96" X 120"	40.840
1"	96" X 241"	40.840
1"	96" X 243"	40.840
1"	96" X 364"	40.840
1"	96" X 240"	40.840
1"	120" X 240"	40.840
1"	121" X 480"	40.840
1"	48" X 120"	40.840
1"	96" X 250"	40.840

**SMOOTH PLATE Continued**

THICK	SIZE	WT/SQFT
1"	96" X 253"	40.840
1 1/8"	96" X 120"	45.950
1 1/8"	96" X 240"	45.950
1 1/4"	96" X 120"	51.050
1 1/4"	48" X 120"	51.050
1 1/4"	96" X 240"	51.050
1 3/8"	96" X 120"	56.160
1 3/8"	96" X 240"	56.160
1 1/2"	96" X 120"	61.260
1 1/2"	96" X 240"	61.260
1 5/8"	96" X 120"	66.370
1 5/8"	96" X 240"	66.370
1 3/4"	96" X 120"	71.470
1 3/4"	96" X 240"	71.470
1 7/8"	96" X 120"	76.580
1 7/8"	96" X 240"	76.580
1 7/8"	96" X 484"	79.580
2"	96" X 120"	81.790
2"	96" X 240"	81.790
2 1/8"	96" X 120"	86.790
2 1/8"	96" X 240"	86.790
2 1/4"	96" X 120"	91.890
2 1/4"	96" X 240"	91.890
2 1/2"	96" X 120"	102.100
2 1/2"	96" X 240"	102.100
2 3/4"	96" X 120"	112.300
2 3/4"	96" X 240"	112.300
3"	96" X 120"	122.500
3"	96" X 240"	122.500
3 1/4"	96" X 120"	132.710
3 1/4"	96" X 240"	132.710
4"	96" X 192"	163.360
4"	96" X 240"	163.360
6"	96" X 240"	245.400

**DOMEX**

**HR DOMEX ALLOY STEEL**

THICK	SIZE	WT/SQFT
3/16"	60" X 120"	7.680
3/16"	60" X 240"	7.680
1/4"	60" X 96"	10.240
1/4"	60" X 120"	10.240
1/4"	60" X 240"	10.240
5/16"	46" X 120"	12.790
5/16"	52" X 240"	12.790
3/8"	52" X 96"	15.360
3/8"	52" X 120"	15.360
3/8"	52" X 144"	15.360
3/8"	52" X 240"	15.360

**T-1 PLATE A-514 321/360**

THICK	SIZE	WT/SQFT
3/16"	321 96" X 240"	7.660
1/4"	321 96" X 240"	10.210
3/8"	321 96" X 240"	15.320
1/2"	321 96" X 240"	20.420
5/8"	321 96" X 120"	25.530

**T-1 PLATE A-514 321/360 Continued**

THICK	SIZE	WT/SQFT
5/8"	321 96" X 240"	25.530
3/4"	321 96" X 240"	30.630
3/4"	321 96" X 288"	71.470
1"	321 96" X 240"	40.840
1 1/4"	321 96" X 240"	51.050
1 1/2"	321 96" X 240"	61.260
1 3/4"	321 96" X 240"	71.470
2"	321 96" X 72"	81.680
2"	321 96" X 240"	81.680

**STAINLESS**

**STAINLESS PLATE T-304-#1**

THICK	SIZE	WT/SQFT
3/16"	48" X 96"	8.579
3/16"	48" X 120"	8.579
3/16"	48" X 240"	8.579
3/16"	60" X 120"	8.579
1/4"	48" X 120"	11.162
1/4"	60" X 120"	11.162
1/4"	60" X 144"	11.162
5/16"	72" X 120"	13.746
3/8"	48" X 120"	16.496
3/8"	48" X 144"	16.496
3/8"	48" X 240"	16.496
1/2"	48" X 120"	21.663

**STAINLESS PLATE T-316-#1**

THICK	SIZE	WT/SQFT
3/16"	60" X 120"	8.579
1/4"	60" X 120"	11.162
1/4"	48" X 120"	11.162

**ROUND BAR**

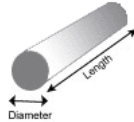
**ALLOY**

**CR ROUND 4140 T G & P**

DIAM	WT/FT
2 3/16"	12.780

**HR ROUND 4140 ANNEALED R/L**

DIAM	NL	WT/FT
1/2"	18'	0.668
1 1/4"	20'	4.170
1 1/2"	20'	6.010
1 3/4"	20'	8.180
2"	20'	10.680
2 1/4"	20'	13.520
2 1/2"	20'	16.690
2 3/4"	20'	20.200
3"	20'	24.030
3 1/8"	20'	26.080
3 1/2"	20'	32.710
3 3/4"	20'	37.550
4"	20'	42.730



**HR ROUND 4140 ANNEALED R/L Continued**

DIAM	NL	WT/FT
4 1/2"	20'	54.080
5 1/2"	20'	80.780
6 1/2"	20'	112.800
8"	20'	173.000
8 1/2"	20'	192.900

**HR ROUND 4140 H/T R/L**

DIAM	WT/FT
3/4"	1.500
1"	2.670
1 1/8"	3.380
1 1/4"	4.170
1 1/2"	6.010
1 3/4"	8.180
1 7/8"	9.388
2"	10.680
2 1/4"	13.520
2 1/2"	16.690
2 3/4"	20.190
3"	24.030
3 1/4"	28.210
3 1/2"	32.710
4"	42.730
4 1/2"	54.080
5"	66.760
6"	96.130

**ALUMINUM**

**ALUMINUM ROUND 12'**

DIAM	WT/FT
1/4"	0.058
3/8"	0.130
1/2"	0.231
5/8"	0.361
3/4"	0.520
1"	0.924
1 1/4"	1.443
1 3/8"	1.746
1 1/2"	2.078
1 5/8"	2.439
2"	3.695
2 1/8"	4.171
3"	8.313
3 1/2"	11.545
4"	14.780
4 1/2"	19.280
5"	23.562
6"	33.251

**CHROME PLATED**

**CHROME PLATED ROUND-1045-IHC**

DIAM	NL	WT/FT
1"	24'	2.670
1 1/4"	24'	4.170
1 3/8"	24'	5.050

**CHROME PLATED ROUND-1045-IHC Continued**

DIAM	NL	WT/FT
1 1/2"	24'	6.010
1 3/4"	24'	8.180
2"	24'	10.680

**CHROME PLATED ONLY RND 1045**

DIAM	NL	WT/FT
1"	24'	2.670
1 1/2"	24'	6.010
2"	24'	10.680

**CR ROUND 1144SR 12' R/L**

DIAM	WT/FT
7/8"	2.040
1"	2.670
1 1/8"	3.380
1 1/4"	4.170
1 7/16"	5.520
1 1/2"	6.010
1 11/16"	7.600
1 3/4"	8.180
1 15/16"	10.020
2"	10.680
2 3/16"	12.780
2 7/16"	15.870

**CR ROUND 1144SR DTGP 12' R/L**

DIAM	WT/FT
1 15/16"	10.020
2 3/16"	12.780
2 7/16"	15.870

**CR ROUND 12L14 12'**

DIAM	WT/FT
3/8"	0.376
1 1/8"	3.380
1 1/4"	4.170
1 3/8"	5.050
1 1/2"	6.010
1 5/8"	7.050
1 11/16"	7.600
1 3/4"	8.180
1 7/8"	9.390
2"	10.680
2 3/16"	12.780
2 1/4"	13.520
2 3/8"	15.060
2 1/2"	16.690
2 5/8"	18.400
2 3/4"	20.200
2 7/8"	22.070
3"	24.030
3 1/8"	26.080
3 1/4"	28.210

**CR ROUND 1215 12'**

DIAM	WT/FT
1"	2.670
1 3/4"	8.180
2"	10.680
3"	24.030

**CR ROUND 1045 PSQ**

DIAM	WT/FT
1 1/8"	3.380

**CR ROUND C1045 T & P R/L**

DIAM	WT/FT
4 7/16"	52.580

**CR ROUND C1045 T G & P**

DIAM	L	WT/FT
1"	20'	2.670
1 1/16"	24'	3.020
1 3/16"	20'	3.770
1 1/4"	24'	4.170
1 3/8"	24'	5.050
1 7/16"	19' 6"	5.520
1 7/16"	20'	5.520
1 7/16"	24'	5.520
1 1/2"	20'	6.010
1 1/2"	24'	6.010
1 11/16"	20'	7.600
1 11/16"	24'	7.600
1 3/4"	20'	8.180
1 15/16"	20'	10.020
1 15/16"	24'	10.020
2"	20'	10.680
2 3/16"	20'	12.780
2 3/16"	24'	12.780
2 3/16"	24' 8"	12.780
2 1/4"	20'	13.520
2 1/4"	24'	13.520
2 7/16"	13' 2"	15.870
2 7/16"	20'	15.870
2 7/16"	24'	15.870
2 7/16"	24' 8"	15.870
2 7/16"	27'	15.870
2 1/2"	23' 8"	16.690
2 11/16"	20'	19.290
2 11/16"	24'	19.290
2 15/16"	13'	23.040
2 15/16"	20'	23.040
2 15/16"	24'	23.040
2 15/16"	24' 8"	23.040
3"	24'	24.030
3"	20'	24.030
3 7/16"	20'	31.550
3 7/16"	24' 2"	31.550
3 1/2"	24'	32.710
3 15/16"	24'	41.400
4 1/4"	28'	48.230
4 3/4"	12' 2"	60.250

CR ROUND C1045 T G & P Continued

DIAM	L	WT/FT
4 3/4"	24'	60.250
6"	27' 8"	96.130
7"	20'	130.900
7"	24'	130.900
7"	32'	130.900

CR ROUND C1045

DIAM	WT/FT
1"	2.670
1 1/4"	4.170
1 7/16"	5.520
1 1/2"	6.010
1 11/16"	7.600
1 15/16"	10.020
2"	10.680
2 3/16"	12.780
2 7/16"	23.040
2 1/2"	15.820
2 15/16"	23.040
4 7/16"	52.580
4 15/16"	65.100

CR ROUND C1018

DIAM	L	WT/FT
1/8"	12'	0.042
3/16"	12'	0.094
1/4"	20'	0.167
5/16"	20'	0.261
3/8"	20'	0.376
7/16"	20'	0.511
1/2"	12'	0.668
1/2"	20'	0.668
9/16"	20'	0.845
5/8"	12'	1.040
5/8"	20'	1.040
11/16"	20'	1.260
3/4"	20'	1.500
13/16"	20'	1.760
7/8"	20'	2.040
7/8"	12'	2.040
15/16"	20'	2.350
1"	20'	2.670
1 1/16"	20'	3.020
1 1/8"	20'	3.380
1 3/16"	20'	3.770
1 1/4"	20'	4.170
1 5/16"	20'	4.600
1 3/8"	20'	5.050
1 7/16"	20'	5.520
1 7/16"	13' 3"	5.520
1 1/2"	13' 3"	6.010
1 1/2"	20'	6.010
1 5/8"	20'	7.050
1 11/16"	20'	7.600
1 3/4"	20'	8.180
1 7/8"	20'	9.390
1 15/16"	20'	10.020
2"	13' 3"	10.680

CR ROUND C1018 Continued

DIAM	L	WT/FT
2"	20'	10.680
2 1/8"	12'	12.060
2 1/8"	20'	12.060
2 3/16"	12'	12.780
2 3/16"	20'	12.780
2 1/4"	20'	13.520
2 3/8"	20'	15.060
2 7/16"	12'	15.870
2 7/16"	20'	15.870
2 1/2"	20'	16.690
2 3/4"	20'	20.200
2 15/16"	12'	23.040
2 15/16"	20'	23.040
3"	20'	24.030
3 1/4"	20'	28.210
3 7/16"	20'	31.550
3 1/2"	20'	32.710
3 3/4"	20'	37.550
3 15/16"	20'	41.400
4"	20'	42.730
4 1/4"	20'	48.230
4 1/2"	20'	54.080
4 3/4"	20'	60.250
4 15/16"	20'	65.100
5"	20'	66.760
5 1/4"	20'	73.600
5 1/2"	20'	80.780
6"	20'	96.130
6 1/2"	20'	112.800

CR ROUND 8620

DIAM	WT/FT	LENGTH
11/16"	1.260	25
11/16"	1.260	30
7/8"	2.040	20
7/8"	2.040	25
7/8"	2.040	30

FATIGUE PROOF 12' R/L

DIAM	WT/FT
1 1/2"	6.010

GALVANIZED ROUND A-36 20'

DIAM	WT/FT
3/8"	0.403
1/2"	0.720
3/4"	1.610
1"	2.870

HR ROUND A-36 20'

DIAM	WT/FT
1/4"	0.167
5/16"	0.261
3/8"	0.376
7/16"	0.511
1/2"	0.668



HR ROUND A-36 20' Continued

DIAM	WT/FT
5/8"	1.040
3/4"	1.500
7/8"	2.040
1"	2.670
1 1/8"	3.380
1 1/4"	4.170
1 3/8"	5.050
1 1/2"	6.010
1 5/8"	7.050
1 3/4"	8.180
2"	10.680
2 1/4"	13.520
2 5/16"	14.280
2 15/16"	23.040
3"	24.030
3 1/4"	28.210
3 1/2"	32.710
4"	42.730
5"	66.760
5 1/2"	80.780
6"	96.130
7"	130.800
8"	170.900
13 5/8"	505.120

HR ROUND CC1045 20' R/L

DIAM	WT/FT
1 3/8"	5.049
1 5/8"	7.051
3 1/2"	32.710
4"	42.730
4 1/4"	48.230
4 1/2"	54.080
4 3/4"	60.250
5"	66.760
5 1/4"	73.600
6"	96.130
6 1/4"	104.300
6 1/2"	112.800
7"	134.530
7 1/4"	140.400
7 1/2"	151.010
7 3/4"	166.360
8"	173.000
8 1/4"	181.080
8 1/2"	202.060
9"	216.300
10"	273.800
12"	384.500

**STAINLESS**

STAINLESS ROUND T-303 12' R/L

DIAM	WT/FT
7/16"	0.511
1 7/16"	5.520

STAINLESS ROUND T-304 12' R/L

DIAM	WT/FT
5/32"	0.065
3/16"	0.094
1/4"	0.167
5/16"	0.261
3/8"	0.376
1/2"	0.668
5/8"	1.043
3/4"	1.502
7/8"	2.040
1"	2.670
1 1/8"	3.380
1 1/4"	4.170
1 3/8"	5.049
1 1/2"	6.008
2"	10.681

STAINLESS ROUND T-316 12' R/L

DIAM	WT/FT
5/16"	0.261
1/2"	0.668
2 7/16"	15.870

STAINLESS ROUND T-416-PSQ R/L 20'

DIAM	WT/FT
1"	2.670
1 1/8"	3.380
1 3/16"	3.776
1 1/4"	4.172
1 7/16"	5.518
1 1/2"	6.008
1 11/16"	7.600
1 3/4"	8.178
1 15/16"	10.020

**STRESS PROOF**

**CARBON STEEL**

STRESS PROOF A-311B 12' R/L

DIAM	WT/FT
1/4"	0.167
5/16"	0.261
3/8"	0.376
1/2"	0.668
5/8"	1.040
3/4"	1.500
7/8"	2.040
15/16"	2.350
1"	2.670
1 1/8"	3.380
1 3/16"	3.770
1 1/4"	4.170
1 5/16"	4.600
1 3/8"	5.050
1 7/16"	5.520
1 1/2"	6.010

**STRESS PROOF A-311B 12' R/L Continued**

DIAM	WT/FT
1 5/8"	7.050
1 11/16"	7.600
1 3/4"	8.180
1 13/16"	8.770
1 7/8"	9.390
1 15/16"	10.020
2"	10.680
2 1/8"	12.060
2 3/16"	12.780
2 1/4"	13.520
2 5/16"	14.280
2 3/8"	15.060
2 7/16"	15.870
2 1/2"	16.690
2 5/8"	18.400
2 3/4"	20.200
2 15/16"	23.040
3"	24.030
3 1/4"	28.210
3 7/16"	31.550
3 1/2"	32.710
3 3/4"	37.550
3 15/16"	41.400
4"	42.730
4 1/4"	48.230
4 1/2"	54.080

**STRESS PROOF G & P 20' R/L**

DIAM	WT/FT
2 15/16"	23.040
3 7/16"	31.550
3 15/16"	41.400

**SHEET**

**ALUMINUM**

**ALUMINUM SHEET**

THICK	ALLOY	TEMPER	SIZE	WT/SQFT
.032	3003	H-14	48" X 120"	0.447
.040	3003	H-14	48" X 120"	0.559
.050	3003	H-14	48" X 120"	0.698
.063	3003	H-14	48" X 120"	0.880
.063	3003	H-14	48" X 144"	0.880
.080	3003	H-14	48" X 120"	1.117
.090	3003	H-14	48" X 120"	1.257
.032	5052	H-32	48" X 120"	0.447
.032	5052	H-32	48" X 144"	0.447
.040	5052	H-32	48" X 120"	0.559
.050	5052	H-32	48" X 120"	0.698
.063	5052	H-32	48" X 120"	0.880
.063	5052	H-32	48" X 144"	0.880
.080	5052	H-32	48" X 120"	1.117
.080	5052	H-32	48" X 144"	1.117
.090	5052	H-32	48" X 120"	1.257
.125	5052	H-32	80" X 80"	1.746
.125	5052	H-32	48" X 96"	1.746
.125	5052	H-32	48" X 120"	1.746

**ALUMINUM SHEET Continued**

THICK	ALLOY	TEMPER	SIZE	WT/SQFT
.125	5052	H-32	48" X 144"	1.746
.125	5052	H-32	60" X 144"	1.746
.125	6061	T-6	48" X 144"	1.746

**ALUMINUM SHEET-EMBOSSED**

THICK	SIZE	WT/SQFT
.032	48" X 96"	0.456
.032	48" X 120"	0.456

**ALUMINUM HC PERFORATED SHEET**

THICK	HOLE	CENTER	SIZE
.032	1/4	9/32	36" X 120"

**CARBON STEEL**

**AR SHEET A-2352**

GA	THICK	SIZE	WT/SQFT
10	0.1345	48" X 120"	5.625

**COR-TEN SHEET A606-TYPE-4**

GA	THICK	SIZE	WT/SQFT
	0.375	48" X 96"	15.320
10	0.1345	48" X 96"	5.625

**CR SHEET A-36**

GA	THICK	SIZE	WT/SQFT
10	0.1345	48" X 120"	5.625
11	0.1196	48" X 96"	5.000
11	0.1196	48" X 120"	5.000
11	0.1196	60" X 120"	5.000
12	0.1046	60" X 120"	4.375
14	0.0747	48" X 96"	3.125
14	0.0747	48" X 120"	3.125
16	0.0598	48" X 96"	2.500
16	0.0598	48" X 120"	2.500
16	0.0598	48" X 144"	2.500
16	0.0598	60" X 120"	2.500
18	0.0478	48" X 96"	2.000
18	0.0478	48" X 120"	2.000
18	0.0478	60" X 120"	2.000
20	0.0359	48" X 120"	1.500
20	0.0359	48" X 144"	1.500
20	0.0359	60" X 120"	1.500
22	0.0299	48" X 120"	1.250
22	0.0299	60" X 120"	1.250
24	0.0239	48" X 120"	1.000

**HR SHEET A-1011 GRADE 33**

GA	THICK	SIZE	WT/SQFT
8	0.1644	48" X 120"	6.875
10	0.1345	36" X 120"	5.625
10	0.1345	48" X 96"	5.625
10	0.1345	48" X 120"	5.625
10	0.1345	48" X 144"	5.625

HR SHEET A-1011 GRADE 33 Continued

GA	THICK	SIZE	WT/SQFT
10	0.1345	48" X 240"	5.625
10	0.1345	60" X 96"	5.625
10	0.1345	60" X 121"	5.625
10	0.1345	60" X 120"	5.625
10	0.1345	60" X 144"	5.625
10	0.1345	60" X 240"	5.625
10	0.1345	72" X 96"	5.625
10	0.1345	72" X 120"	5.625
10	0.1345	72" X 150"	5.625
10	0.1345	72" X 240"	5.625
10	0.1345	72" X 144"	5.625
10	0.1345	84" X 144"	5.625
10	0.1345	84" X 240"	5.625
11	0.1196	48" X 96"	5.000
11	0.1196	48" X 120"	5.000
11	0.1196	48" X 144"	5.000
11	0.1196	60" X 82"	5.000
11	0.1196	60" X 120"	5.000
11	0.1196	72" X 120"	5.000
11	0.1196	72" X 144"	5.000
12	0.1046	36" X 96"	4.375
12	0.1046	36" X 120"	4.375
12	0.1046	36" X 144"	4.375
12	0.1046	48" X 69"	4.375
12	0.1046	48" X 74 1/2"	4.375
12	0.1046	48" X 96"	4.375
12	0.1046	48" X 120"	4.375
12	0.1046	48" X 144"	4.375
12	0.1046	48" X 156"	4.375
12	0.1046	60" X 96"	4.375
12	0.1046	60" X 120"	4.375
12	0.1046	60" X 144"	4.375
12	0.1046	72" X 96"	4.375
12	0.1046	72" X 120"	4.375
12	0.1046	72" X 144"	4.375
14	0.0747	36" X 96"	3.125
14	0.0747	36" X 120"	3.125
14	0.0747	36" X 144"	3.125
14	0.0747	48" X 76"	3.125
14	0.0747	48" X 96"	3.125
14	0.0747	48" X 120"	3.125
14	0.0747	48" X 144"	3.125
14	0.0747	48" X 240"	3.125
14	0.0747	60" X 96"	3.125
14	0.0747	60" X 120"	3.125
14	0.0747	60" X 144"	3.125
14	0.0747	72" X 96"	3.125
14	0.0747	72" X 120"	3.125
14	0.0747	72" X 144"	3.125
14	0.0747	72" X 240"	3.125
16	0.0598	36" X 96"	2.500
16	0.0598	36" X 120"	2.500
16	0.0598	36" X 144"	2.500
16	0.0598	47" X 72"	2.500
16	0.0598	48" X 96"	2.500
16	0.0598	48" X 82 1/2"	2.500
16	0.0598	48" X 120"	2.500
16	0.0598	48" X 144"	2.500
16	0.0598	60" X 96"	2.500
16	0.0598	60" X 120"	2.500

HR SHEET A-1011 GRADE 33 Continued

GA	THICK	SIZE	WT/SQFT
16	0.0598	60" X 144"	2.500
16	0.0598	60" X 240"	2.500
14	0.0747	60" X 102"	3.125
14	0.0747	60" X 130"	3.125

PERFORATED SHEET

GA	HOLE CENTER	SIZE	% OPEN AREA	SIZE
11	1/8"	3/16"	40	48 X 120
11	3/16"	5/16"	32	48 X 120
11	1/4"	3/8"	40	48 X 120
11	5/16"	7/16"	46	48 X 120
11	3/4"	1"	51	48 X 120
14	1/8"	3/16"	40	48 X 120
14	1/4"	5/16"	58	48 X 120
14	1/4"	3/8"	40	48 X 120
14	3/8"	9/16"	40	48 X 120
14	1/2"	1 1/16"	48	48 X 120
16	5/32"	3/16"	63	48 X 120
16	3/16"	1/4"	50	48 X 120
16	3/8"	9/16"	40	48 X 120

COPPER

COPPER SHEET 110 ALLOY

THICK	GA	SIZE	WT/SQFT
16OZ	25GA	36" X 120"	1.0000
24OZ	23GA	36" X 120"	1.5000
24OZ	23GA	48" X 120"	1.5000

GALVANIZED

GALVANIZED SHEET A-653

GA	THICK	SIZE	WT/SQFT
10	0.1382	48" X 96"	5.7810
10	0.1382	48" X 120"	5.7810
10	0.1382	60" X 120"	5.7810
11	0.1382	60" X 120"	5.1560
12	0.1084	48" X 96"	4.5310
12	0.1084	48" X 120"	4.5310
12	0.1084	60" X 96"	4.5310
12	0.1084	60" X 120"	4.5310
12	0.1084	60" X 144"	4.5310
14	0.0785	36" X 96"	3.2810
14	0.0785	36" X 120"	3.2810
14	0.0785	48" X 96"	3.2810
14	0.0785	48" X 120"	3.2810
14	0.0785	48" X 144"	3.2810
14	0.0785	60" X 120"	3.2810
16	0.0635	36" X 96"	2.6560
16	0.0635	36" X 120"	2.6560
16	0.0635	36" X 144"	2.6560
16	0.0635	48" X 96"	2.6560
16	0.0635	48" X 120"	2.6560
16	0.0635	48" X 144"	2.6560
16	0.0635	60" X 96"	2.6560
16	0.0635	60" X 120"	2.6560
16	0.0635	60" X 144"	2.6560

GALVANIZED SHEET A-653 Continued

GA	THICK	SIZE	WT/SQFT
16	0.0635	60" X 168"	2.6560
18	0.0516	36" X 96"	2.1560
18	0.0516	36" X 120"	2.1560
18	0.0516	48" X 96"	2.1560
18	0.0516	48" X 120"	2.1560
18	0.0516	60" X 120"	2.1560
20	0.0396	36" X 96"	1.6560
20	0.0396	36" X 120"	1.6560
20	0.0396	48" X 96"	1.6560
20	0.0396	48" X 120"	1.6560
20	0.0396	48" X 144"	1.6560
20	0.0396	60" X 96"	1.6560
20	0.0396	60" X 120"	1.6560
20	0.0396	60" X 144"	1.6560
20	0.0396	72" X 120"	1.6560
22	0.0336	36" X 96"	1.4060
22	0.0336	36" X 120"	1.4060
22	0.0336	48" X 96"	1.4060
22	0.0336	48" X 120"	1.4060
22	0.0336	48" X 144"	1.4060
22	0.0336	60" X 120"	1.4060
24	0.0276	36" X 96"	1.1560
24	0.0276	36" X 120"	1.1560
24	0.0276	48" X 96"	1.1560
24	0.0276	48" X 120"	1.1560
26	0.0217	36" X 96"	0.9060
26	0.0217	36" X 120"	0.9060
26	0.0217	48" X 96"	0.9060
26	0.0217	48" X 120"	0.9060
26	0.0217	60" X 120"	0.9060
28	0.0187	36" X 96"	0.7810
28	0.0187	36" X 120"	0.7810
28	0.0187	48" X 120"	0.7810

PAINT GRIP

GA	THICK	SIZE	WT/SQFT
16	0.0635	48" X 120"	2.6562
16	0.0635	60" X 120"	2.6562
18	0.0516	48" X 120"	2.1562
20	0.0396	36" X 120"	1.6562
20	0.0396	48" X 120"	1.6562
22	0.0336	48" X 120"	1.4062
22	0.0336	60" X 120"	1.4062
24	0.0276	48" X 120"	1.1562
26	0.0217	48" X 120"	0.9060

**STAINLESS**

STAINLESS SHEET T-304-2B

GA	THICK	SIZE	WT/SQFT
10	0.1350	48 X 96	5.6700
10	0.1350	48 X 120	5.6700
10	0.1350	60 X 96	5.6700
10	0.1350	60 X 120	5.6700
10	0.1350	72 X 144	5.6700
11	0.1200	48 X 120	5.0500
12	0.1054	48 X 96	4.4100
12	0.1054	48 X 120	4.4100

STAINLESS SHEET T-304-2B Continued

GA	THICK	SIZE	WT/SQFT
12	0.1054	60 X 96	4.4100
12	0.1054	60 X 120	4.4100
12	0.1054	72 X 120	4.4100
14	0.0751	48 X 96	3.1540
14	0.0751	48 X 120	3.1540
14	0.0751	60 X 96	3.1540
14	0.0751	60 X 120	3.1540
14	0.0751	72 X 96	3.1540
14	0.0751	72 X 120	3.1540
16	0.0595	48 X 120	2.5200
16	0.0595	60 X 96	2.5200
16	0.0595	60 X 120	2.5200
16	0.0595	60 X 144	2.5200
18	0.0480	48 X 120	2.0160
18	0.0480	60 X 96	2.0160
18	0.0480	60 X 120	2.0160
20	0.0355	60 X 120	1.5120
20	0.0355	48 X 120	1.5120
22	0.0293	48 X 120	1.2600
24	0.0235	48 X 120	1.0080
26	0.0178	36 X 120	0.7560
26	0.0178	48 X 120	0.7560

STAINLESS SHEET T-304-#3

GA	THICK	SIZE	WT/SQFT
12	0.1054	36 X 120	4.4100
12	0.1054	36 X 144	4.4100
12	0.1054	48 X 144	4.4100
14	0.0751	48 X 120	3.1540
14	0.0751	48 X 144	3.1540
14	0.0751	60 X 120	3.1540
16	0.0595	48 X 120	2.5200
16	0.0595	60 X 96	2.5200
16	0.0595	60 X 120	2.5200
18	0.0480	48 X 120	2.0160
18	0.0480	60 X 120	2.0160
20	0.0355	48 X 120	1.5120
22	0.0293	48 X 120	1.2600
24	0.0235	48 X 120	1.0080
26	0.0178	36 X 120	0.7560
26	0.0178	48 X 120	0.7560

STAINLESS SHEET T-304-#8

GA	THICK	SIZE	WT/SQFT
14	0.0751	48 X 120	3.1750
16	0.0595	48 X 120	2.5200

STAINLESS SHEET T-316-2B

GA	THICK	SIZE	WT/SQFT
10	0.1350	48 X 120	5.7800
10	0.1350	60 X 120	5.7800
12	0.1054	48 X 120	4.5250
12	0.1054	60 X 120	4.5250
14	0.0751	48 X 120	3.2250
14	0.0751	60 X 120	3.2250
16	0.0595	48 X 120	2.5200
16	0.0595	60 X 120	2.5200

**SQUARE BAR**



**ALLOY**

**HR SQUARE 4140 HEAT TREATED**

SIZE	WT/FT
1 3/4"	10.410

**ALLOY**

**CR SQUARE 4140 HEAT TREATED**

SIZE	WT/FT
1 1/2"	7.650

**ALUMINUM**

**ALUMINUM SQUARE**

SIZE	WT/FT
1/4"	0.075
3/8"	0.169
1/2"	0.294
5/8"	0.469
3/4"	0.676
1"	1.170
1 1/4"	1.838
1 1/2"	2.646
2"	4.704

**CARBON STEEL**

**CR SQUARES C1018 12' SEE KEYSTOCK**

**HR SQUARE A-36 20'**

SIZE	WT/FT
3/8"	0.478
1/2"	0.850
5/8"	1.328
3/4"	1.910
7/8"	2.603
1"	3.400
1 1/4"	5.312
1 1/2"	7.650
1 3/4"	10.410
2"	13.600
2 1/4"	13.600
2 1/2"	21.250
3"	30.600
1 1/4" C1035	5.312
1" C1055	3.400
1 1/8" C1055RC	4.300
1 1/4" C1055RC	5.312

**STAINLESS**

**STAINLESS SQUARE T-304**

SIZE	WT/FT
3/8"	0.478
1/2"	0.850

**STRIP (SEE ALSO `FLAT')**

**ALUMINUM**

**ALUMINUM STRIP 6061-T6 12'**

THICK	WIDTH	WT/FT
1/8"	1/2"	0.0750
1/8"	3/4"	0.1130
1/8"	1"	0.1470
1/8"	1 1/4"	0.1833
1/8"	1 1/2"	0.2210
1/8"	2"	0.2940
1/8"	2 1/2"	0.3760
1/8"	3"	0.4410
1/8"	4"	0.5880
3/16"	1/2"	0.1120
3/16"	3/4"	0.1680
3/16"	1"	0.2240
3/16"	1 1/4"	0.2760
3/16"	1 1/2"	0.3370
3/16"	2"	0.4490
3/16"	2 1/2"	0.5610
3/16"	3"	0.6620
3/16"	4"	0.9020

**CARBON STEEL**

**CR STRIP C1018 12' R/L**

THICK	WIDTH	WT/FT
1/8"	1/2"	0.2130
1/8"	5/8"	0.2660
1/8"	3/4"	0.3190
1/8"	1"	0.4250
1/8"	1 1/4"	0.5310
1/8"	1 1/2"	0.6380
1/8"	2"	0.8500
3/16"	3/8"	0.2390
3/16"	1/2"	0.3190
3/16"	5/8"	0.3980
3/16"	3/4"	0.4780
3/16"	7/8"	0.5580
3/16"	1"	0.6380
3/16"	1 1/4"	0.7970
3/16"	1 1/2"	0.9560
3/16"	2"	1.2750

**HR STRIP A-36 20'**

THICK	WIDTH	WT/FT
1/8"	1/2"	0.2130
1/8"	3/4"	0.3190
1/8"	1"	0.4250

**HR STRIP A-36 20' Continued**

THICK	WIDTH	WT/FT
1/8"	1 1/4"	0.5310
1/8"	1 1/2"	0.6380
1/8"	1 3/4"	0.7440
1/8"	2"	0.8500
1/8"	2 1/2"	1.0630
1/8"	3"	1.2750
1/8"	3 1/2"	1.4880
1/8"	4"	1.7000
1/8"	5"	2.1250
1/8"	6"	2.5500
1/8"	8"	3.4000
1/8"	10"	4.2500
1/8"	12"	5.1000
3/16"	1 1/2"	0.3190
3/16"	3/4"	0.4780
3/16"	1"	0.6380
3/16"	1 1/4"	0.7970
3/16"	1 1/2"	0.9560
3/16"	1 3/4"	1.1160
3/16"	2"	1.2750
3/16"	2 1/2"	1.5940
3/16"	3"	1.9130
3/16"	3 1/2"	2.2310
3/16"	4"	2.5500
3/16"	5"	3.1880
3/16"	6"	3.8250
3/16"	8"	5.1000
3/16"	10"	6.3750
3/16"	12"	7.6500

**STAINLESS**

**STAINLESS STRIP 1-316 12'**

THICK	WIDTH	WT/FT
1/8"	1"	0.4380

**STAINLESS STRIP 1-304 12'**

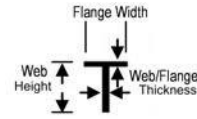
THICK	WIDTH	WT/FT
1/8"	1/2"	0.231 *
1/8"	3/4"	0.319 *
1/8"	1"	0.425 *
1/8"	1 1/2"	0.638 *
1/8"	2"	0.850 *
1/8"	3"	1.275 *
1/8"	4"	1.7000
3/16"	3/4"	0.478 *
3/16"	1"	0.638 *
3/16"	1 1/4"	0.797 *
3/16"	1 1/2"	0.956 *
3/16"	2"	1.275 *
3/16"	2 1/2"	1.594 *
3/16"	3"	1.913 *
3/16"	4"	2.5500

**TEES**

**CARBON STEEL**

**TEES 20'**

Width	Height	Flange/Web Thick.	WT/FT
1 1/2"	1 1/2"	3/16"	1.900
1 1/2"	1 1/2"	1/4"	2.420
2"	2"	1/4"	3.620

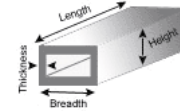


**TUBING**

**ALUMINUM**

**ALUMINUM RECT. TUBING**

W	L	WALL	WT/FT
1"	1/2"	.125	0.364
2"	1"	.125	0.810
3"	2"	.125	1.397
4"	2"	.125	1.673



**CARBON STEEL**

**IMPORTED RECT. TUBING**

DIMENSIONS	WALL	L	WT/FT
2" X 1"	.078	20'	1.490
2" X 1"	.078	24'	1.490
2" X 1"	.120	20'	2.210
3" X 1 1/2"	.078	20'	2.330
3" X 1 1/2"	.078	24'	2.330
3" X 1 1/2"	.078	40'	2.330
3" X 1 1/2"	.120	24'	3.350
3" X 1 1/2"	3/16	20'	4.950
3" X 1 1/2"	3/16	40'	4.950
3" X 1 1/2"	1/4"	20'	8.800
3" X 1 1/2"	1/4"	40'	8.800
3" X 2"	1/4"	20'	7.100
3" X 2"	1/4"	40'	7.100
3" X 2"	.083	24'	2.730
3" X 2"	.120	40'	3.760
3" X 2"	3/16"	40'	5.590
3" X 2"	3/16	24'	5.590
4" X 2"	.083	20'	3.290
4" X 2"	.083	40'	3.290
4" X 2"	.120	20'	4.750
4" X 2"	.120	40'	4.750
4" X 2"	1/4"	20'	8.810
4" X 2"	1/4"	40'	8.810
4" X 2"	3/16"	20'	6.870
4" X 2"	3/16	24'	6.870
4" X 2"	3/16	40'	6.870
4" X 3"	3/16"	20'	8.150
4" X 3"	3/16"	24'	8.150
4" X 3"	3/16"	40'	8.150
4" X 3"	1/4"	20'	10.500
4" X 3"	1/4"	40'	10.500
5" X 2"	3/16	20'	8.140
5" X 2"	3/16	40'	8.140
6" X 3"	3/16	20'	10.700



IMPORTED RECT. TUBING Continued

DIMENSIONS	WALL	L	WT/FT
6" X 3"	3/16	40'	10.700
6" X 3"	1/4"	20'	13.910
6" X 3"	1/4"	40'	13.910
6" X 4"	3/16	20'	12.000
6" X 4"	3/16	40'	12.000
6" X 4"	1/4"	20'	15.620
6" X 4"	1/4"	40'	15.620
6" X 2"	.120	20'	6.460
6" X 2"	.120	24'	6.460
6" X 2"	.120	40'	6.460
6" X 2"	1/4"	40'	12.210
6" X 2"	3/16"	40'	9.420
8" X 3"	1/4"	20'	17.300
8" X 3"	1/4"	40'	17.300
8" X 3"	1/4"	50'	17.300
8" X 4"	1/4"	20'	19.000
8" X 4"	1/4"	40'	19.000
8" X 4"	1/4"	50'	19.000

RECT. TUBING : 0/40'

W	L	WALL	WT/FT
1 1/2"	1"	.120	1.844
2"	1"	.065	1.269
2"	1"	.072	1.600
2"	1"	.083	1.600
2"	1"	.120	2.252
2"	1 1/2"	.083	1.882
2"	1 1/2"	.120	2.660
2 1/2"	1 1/2"	3/16	4.320
2 1/2"	1 1/2"	1/4	5.410
3"	1"	.083	2.164
3"	1"	.120	3.068
3"	1 1/2"	.083	2.446
3"	1 1/2"	.120	3.476
3"	1 1/2"	3/16	4.939
3 1/2"	1 1/2"	1/4	6.250
3"	2"	.083	2.728
3"	2"	.120	3.884
3"	2"	3/16	5.590
3"	2"	1/4	7.110
3 1/2"	2 1/2"	3/16	6.870
3 1/2"	2 1/2"	1/4	8.810
4"	2"	.083	3.290
4"	2"	.120	4.750
4"	2"	3/16	6.870
4"	2"	1/4	8.810
4"	3"	.120	5.610
4"	3"	3/16	8.150
4"	3"	1/4	10.510
4"	3"	3/8	14.710
5"	2"	.120	5.610
5"	2"	3/16	8.150
5"	2"	1/4	10.510
5"	2"	5/16	12.700
5"	3"	.120	6.460
5"	3"	3/16	9.420
5"	3"	1/4	12.210
5"	3"	3/8	17.270
5"	4"	3/8	19.820

RECT. TUBING 20/40' Continued

W	L	WALL	WT/FT
5"	4"	1/4	13.910
6"	2"	.120	6.460
6"	2"	3/16	9.420
6"	2"	1/4	12.210
6"	2"	5/16	14.830
6"	3"	3/16	10.700
6"	3"	1/4	13.910
6"	3"	5/16	16.960
6"	3"	3/8	19.820
6"	3"	1/2	25.030
6"	4"	.120	8.160
6"	4"	3/16	11.970
6"	4"	1/4	15.620
6"	4"	5/16	19.080
6"	4"	3/8	22.370
6"	4"	1/2	28.430
7"	3"	3/16	11.970
7"	3"	1/4	15.620
7"	3"	3/8	22.370
7"	4"	1/4	17.320
7"	4"	3/8	24.930
7"	4"	1/2	29.680
7"	5"	1/4	19.020
7"	5"	3/8	27.480
7"	5"	1/2	35.240
8"	2"	3/16	11.970
8"	3"	3/16	13.250
8"	3"	1/4	17.320
8"	3"	3/8	24.930
8"	3"	5/16	21.210
8"	4"	3/16	14.530
8"	4"	1/4	19.020
8"	4"	3/8	27.480
8"	4"	1/2	35.240
8"	6"	3/16	17.080
8"	6"	1/4	22.420
8"	6"	3/8	32.580
8"	6"	1/2	42.050
10"	2"	3/16	14.530
10"	2"	1/4	19.020
10"	4"	1/4	22.420
10"	4"	3/8	32.580
10"	6"	1/4	25.820
10"	6"	3/8	37.690
10"	6"	1/2	48.850
10"	8"	1/2	55.660
12"	2"	3/16	17.080
12"	2"	1/4	22.420
12"	3"	1/4	24.120
12"	4"	3/8	37.690
12"	6"	1/4	29.230
12"	6"	3/8	42.790
12"	6"	1/2	55.660
12"	8"	1/2	62.460

**ALLOY ROUND TUBING HR 4142**

OD	ID	WALL	WT/FT
5.750	4.250	.750	40.050

**ALUMINUM ROUND TUBING**

DIAM	WALL	WT/FT
1"	.065	0.225
2"	.250	1.616
2 1/2"	.125	1.097
2 1/2"	.250	2.078
3"	.250	2.540
4 1/2"	.500	7.389

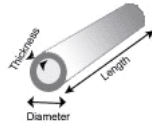
**ALUMINUM BRONZE ROUND TUBING**

OD	WALL	WT/FT
2"	.250	6.290
2 1/4"	.250	6.700
2 1/4"	.375	8.742
2 1/2"	.250	8.110
2 1/2"	.625	15.540
3"	.250	8.940

**CARBON STEEL**

**CARBON STEEL ROUND TUBING A-513 20'**

OD	ID	WALL	WT/FT
.375	.305	.035	0.127
.375	.259	.058	0.196
.375	.245	.065	0.215
.438	.340	.049	0.204
.500	.310	.095	0.455
.500	.282	.109	0.411
.625	.495	.065 ERW	0.398
.625	.407	.109	0.601
.625	.312	.156	0.781
.750	.652	.049	0.367
.750	.620	.065	0.476
.750	.560	.095	0.665
.750	.510	.120	0.807
.875	.777	.049	0.432
.875	.635	.120	0.968
.875	.500	.188	1.379
.875	.375	.250	1.669
1.000	.870	.065 ERW	0.649
1.000	.810	.095	0.918
1.000	.760	.120	1.128
1.000	.687	.156	1.406
1.000	.562	.219	1.827
1.000	.500	.250	2.003
1.000	.375	.313	2.297
1.125	.885	.120	1.288
1.125	.750	.188	1.881
1.250	1.120	.065	0.823
1.250	1.084	.083 ERW	1.034
1.250	1.032	.109	1.328
1.250	1.060	.095	1.172
1.250	1.010	.120	1.448
1.250	.938	.156	1.823



**CARBON STEEL ROUND TUBING A-513 20' Continued**

OD	ID	WALL	WT/FT
1.250	.875	.188	2.132
1.250	.750	.250	2.670
1.250	.500	.375	3.504
1.250	.375	.438	3.798
1.313	1.000	.156	1.928
1.313	.875	.219	2.559
1.313	1.095	.109	1.400
1.375	1.185	.095	1.299
1.375	1.135	.120	1.608
1.375	1.000	.188	2.383
1.375	.875	.250	3.004
1.375	.750	.313	3.550
1.500	1.370	.065	0.996
1.500	1.310	.095	1.426
1.500	1.260	.120 ERW	1.769
1.500	1.125	.188	2.634
1.500	1.062	.219	2.996
1.500	1.000	.250	3.338
1.500	.812	.344	4.247
1.500	.750	.375	4.506
1.500	1.334	.083	1.256
1.625	1.375	.120	1.929
1.625	1.250	.188	2.885
1.625	1.063	.281	4.033
1.625	1.000	.313	4.386
1.660	1.494	14.000	1.398
1.750	1.620	.065	1.170
1.750	1.560	.095	1.679
1.750	1.510	.120	2.089
1.750	1.375	.188	3.136
1.750	1.312	.219	3.581
1.750	1.250	.250	4.005
1.750	1.188	.281	4.409
1.750	1.062	.344	5.161
1.750	1.020	.365	5.344
1.750	1.000	.375	5.507
1.750	.750	.500	6.675
1.875	1.000	.438	6.722
1.900	1.756	.072	1.406
1.900	1.734	.083 ERW	1.611
2.000	1.687	.156	3.072
2.000	1.562	.219	4.166
2.000	1.500	.250	4.673
2.000	1.313	.344	6.084
2.000	1.250	.375	6.508
2.000	1.125	.438	7.307
2.000	1.000	.500	8.010
2.000	1.760	.120	2.409
2.125	1.885	.120	2.570
2.250	2.120	.065 ERW	1.517
2.250	1.562	.344	7.002
2.250	1.500	.375	7.509
2.250	1.250	.500	9.345
2.250	1.000	.625	10.850
2.250	1.750	.250	5.340
2.375	2.245	.065 ERW	1.604
2.375	2.000	.188	4.391
2.375	1.937	.219	5.043
2.375	1.500	.438	9.061
2.375	2.184	.095	2.313

**CARBON STEEL ROUND TUBING A-513 20' Continued**

OD	ID	WALL	WT/FT
2.375	2.107	.134	3.207
2.500	2.334	.083	2.143
2.500	2.370	.065 ERW	1.690
2.500	2.260	.120	3.050
2.500	2.187	.156	3.905
2.500	2.125	.188	4.642
2.500	2.000	.250	6.008
2.500	1.875	.313	7.311
2.500	1.750	.375	8.511
2.500	1.500	.500	10.680
2.500	1.250	.625	12.520
2.625	1.750	.438	10.230
2.625	1.999	.313	7.729
2.625	1.625	.500	11.350
2.750	2.620	.065	1.864
2.750	2.500	.125	3.504
2.750	2.250	.250	6.675
2.750	2.000	.375	9.512
2.875	2.657	.109	3.220
2.875	2.607	.134	3.923
2.875	2.590	.145	3.923
3.000	2.834	.083	2.586
3.000	2.760	.120	3.691
3.000	2.688	.156	4.378
3.000	2.500	.250	7.343
3.000	2.250	.375	10.510
3.000	2.000	.500	13.350
3.000	1.750	.625	15.850
3.000	1.500	.750	18.020
3.000	1.625	.688	16.990
3.000	1.250	.875	19.860
3.125	2.875	.125	3.851
3.125	2.499	.313	9.400
3.250	3.010	.120	4.011
3.250	2.375	.438	13.150
3.250	2.250	.500	14.690
3.250	2.000	.625	17.520
3.250	1.500	.875	22.190
3.250	1.250	1.000	24.030
3.250	2.750	.250	8.010
3.375	2.751	.313	10.240
3.375	2.125	.625	18.360
3.500	3.260	.120	4.332
3.500	3.000	.250	8.678
3.500	2.750	.375	12.520
3.500	1.500	1.000	26.700
3.500	2.000	.750	22.030
3.500	2.500	.500	16.020
3.500	3.370	.065	2.385
3.500	3.140	.180	6.650
3.750	2.750	.500	17.360
4.000	3.834	.083 ERW	3.472
4.000	3.624	.188	7.654
4.000	3.500	.250	10.010
4.000	3.374	.313	12.330
4.000	3.250	.375	14.520
4.000	3.000	.500	18.690
4.000	2.750	.625	22.530
4.000	2.250	.875	29.200
4.000	2.000	1.000	32.040

**CARBON STEEL ROUND TUBING A-513 20' Continued**

OD	ID	WALL	WT/FT
4.000	1.500	1.250	36.713
4.125	3.375	.375	15.020
4.250	4.010	.120	5.293
4.250	3.500	.375	15.520
4.250	3.250	.500	20.030
4.500	3.500	.500	21.360
4.500	3.000	.750	30.040
4.500	2.500	1.000	37.380
4.750	4.000	.375	17.520
4.750	2.750	1.000	40.050
4.750	3.000	.875	36.210
5.000	4.500	.250	12.680
5.000	4.250	.375	18.520
5.000	4.000	.500	24.030
5.000	3.500	.750	34.040
5.500	5.260	.120	6.895
5.500	5.000	.250	14.020
5.500	4.500	.500	26.700
5.750	5.000	.375	21.530
6.000	5.624	.188	11.670
6.000	5.000	.500	29.370
6.000	4.000	1.000	53.400
6.000	5.250	.375	22.530
6.500	5.500	.500	32.040
6.500	5.250	.625	39.220
7.000	6.500	.250	18.020
7.000	6.000	.500	34.710
7.000	4.500	1.250	88.110
7.750	7.250	.250	20.030
8.500	4.500	2.000	138.840
9.000	8.500	.250	23.360
9.000	8.000	.500	45.390
10.000	6.000	2.000	170.880
12.500	10.000	1.250	150.188

**SPECIAL LENGTHS CAN BE ACQUIRED**

**SQUARE TUBING / FLASH CONTROL**

OD	GA	L	WT/FT
2 1/2"	1/4w	20'	7.110
2 1/2"	1/4w	24'	7.110

**GALVANIZED ROUND TUBING**

OD	GA	L	WT/FT
1/2"	18	20'	0.236

**GALVANIZED**

**HYDRAULIC TUBING SEAMLESS**

OD	WALL	WT/FT
1/8"	.035	0.034
3/16"	.028	0.048
3/16"	.035	0.057
1/4"	.035	0.080
5/16"	.035	0.104
3/8"	.035	0.127
1/2"	.035	0.174
1/2"	.049	0.236

**HYDRAULIC TUBING SEAMLESS Continued**

OD	WALL	WT/FT
1/2"	.065	0.302
1/2"	.095	0.411
5/8"	.049	0.301
3/4"	.049	0.367
3/4"	.095	0.665
1"	.049	0.498
1"	.095	0.920

**HYDRAULIC TUBING WELDED**

OD	WALL	WT/FT
3/8"	.035	0.130
1/2"	.065	0.300
3/4"	.095	0.670

**STAINLESS**

**STAINLESS RD TUBING SEAMLESS 20'**

OD	ID	WALL	WT/FT
.188	.118	.035	0.057
.250	.180	.035	0.080
.313	.243	.035	0.104
.375	.305	.035	0.127
.438	.382	.028	0.121
2.625	2.000	.313	7.729
3.125	2.499	.313	9.480

**STAINLESS RD TUBING WELDED 20'**

OD	ID	WALL	WT/FT
.375	0.305	.035	0.127
1.250	1.010	.120	1.448
1.500	1.260	.120	1.769
2.500	2.370	.065	1.690

**STAINLESS**

**STAINLESS SANITARY TUBING 304L 20'**

DIAM	WALL	WT/FT
1"	.065	0.649
1 1/2"	.065	0.996
2"	.065	1.343
2 1/2"	.065	1.690
3"	.065	2.037
4"	.083	3.472



**ALUMINUM SQ. TUBING 21'**

DIAM	WALL	WT/FT
1/2"	.063	0.196
3/4"	.125	0.368
1"	.125	0.526
1 1/4"	.125	0.676
1 1/2"	.125	0.810
1 3/4"	.125	0.956
2"	.125	1.103
2"	.188	1.584
2"	.250	2.100

**ALUMINUM SQ. TUBING 21' Continued**

DIAM	WALL	WT/FT
3"	.125	1.691

**CARBON STEEL**

**IMPORTED SQ TUBING**

DIAM	WALL	L	WT/FT
1"	.083	20'	1.035
1"	.083	24'	1.035
1"	.120	20'	1.436
1"	.120	24'	1.436
1"	.065	20'	0.827
1"	.065	24'	0.827
1 1/4"	.083	20'	1.317
1 1/4"	.083	24'	1.317
1 1/4"	.120	20'	1.844
1 1/2"	.083	20'	1.600
1 1/2"	.083	40'	1.600
1 1/2"	.083	24'	1.600
1 1/2"	.120	20'	2.252
1 1/2"	.120	24'	2.252
1 1/2"	3/16"	20'	3.040
1 1/2"	3/16"	40'	3.040
1 1/2"	3/16"	40'	3.040
1 1/2"	.065	20'	1.220
1 1/2"	.065	24'	1.220
2 1/2"	3/16"	20'	5.590
2 1/2"	3/16"	40'	5.590
2"	.120	20'	3.068
2"	.120	24'	3.068
2"	.120	40'	3.068
2"	1/4"	20'	5.410
2"	1/4"	40'	5.410
2"	.083	20'	2.164
2"	.083	24'	2.164
2"	3/16"	20'	4.320
2"	3/16"	40'	4.320
2 1/2"	.083	20'	2.730
2 1/2"	.083	24'	2.730
2 1/2"	.120	20'	3.884
2 1/2"	1/4"	20'	7.110
2 1/2"	1/4"	40'	7.110
3"	1/4"	20'	8.810
3"	1/4"	40'	8.810
3"	.083	20'	3.290
3"	.083	24'	3.290
3"	.120	20'	4.750
3"	.120	40'	4.750
3"	3/16"	20'	6.870
3"	3/16"	24'	6.870
3"	3/16"	40'	6.870
3 1/2"	.120	20'	5.610
3 1/2"	.120	40'	5.610
3 1/2"	3/16"	20'	8.150
3 1/2"	3/16"	40'	8.150
3 1/2"	1/4"	20'	10.510
3 1/2"	1/4"	40'	10.510
4"	.083	20'	4.180
4"	.083	24'	4.180
4"	.120	20'	6.460

IMPORTED SQ TUBING Continued

DIAM	WALL	L	WT/FT
4"	.120	40'	6.460
4"	.188	20'	9.420
4"	.188	40'	9.420
4"	1/4"	20'	12.210
4"	1/4"	24'	12.210
4"	1/4"	40'	12.210
5"	3/16"	20'	11.970
5"	3/16"	40'	11.970
5"	1/4"	20'	15.600
5"	1/4"	40'	15.600
5"	5/16"	20'	19.060
5"	5/16"	40'	19.050
6"	3/16"	20'	14.530
6"	3/16"	40'	14.530
6"	1/4"	20'	19.020
6"	1/4"	40'	19.020
6"	5/16"	40'	23.340
6"	5/16"	48'	23.340

SQUARE TUBING

W	WALL	L	WT/FT
1/2"	.065	20'	0.385
1/2"	.065	24'	0.385
3/4"	.065	20'	0.606
3/4"	.065	24'	0.606
3/4"	.083	20'	0.753
3/4"	.120	24'	1.028
1"	.065	20'	0.827
1"	.065	24'	0.827
1"	.083	20'	1.035
1"	.120	20'	1.436
1"	.120	24'	1.436
1"	3/16	21'	1.760
1"	3/16	24'	1.760
1 1/4"	.065	24'	1.048
1 1/4"	.072	20'	1.159
1 1/4"	.083	20'	1.317
1 1/4"	.109	20'	1.691
1 1/4"	.109	24'	1.691
1 1/4"	.120	20'	1.844
1 1/4"	.120	24'	1.844
1 1/4"	3/16	20'	2.407
1 1/4"	3/16	24'	2.407
1 1/2"	.065	20'	1.269
1 1/2"	.072	20'	1.400
1 1/2"	.083	20'	1.600
1 1/2"	.083	24'	1.600
1 1/2"	.120	20'	2.252
1 1/2"	3/16	20'	3.230
1 1/2"	3/16	40'	3.230
1 1/2"	3/16	20'	3.040
1 1/2"	1/4	20'	4.250
1 3/4"	.072	20'	1.655
1 3/4"	.083	24'	1.881
1 3/4"	.120	24'	2.660
2"	.065	24'	1.710
2"	.083	20'	2.164 RO
2"	.083	24'	2.164 RO
2"	.120	20'	3.068 RO

SQUARE TUBING Continued

W	WALL	L	WT/FT	
2"	.120	24'	3.068	RO
2"	3/16	20'	4.320	
2"	3/16	40'	4.320	
2"	1/4	20'	5.410	
2"	1/4	40'	5.410	
2 1/2"	.083	20'	2.730	
2 1/2"	.083	24'	2.730	
2 1/2"	.120	20'	3.884	
2 1/2"	.134	20'	4.312	
2 1/2"	3/16	20'	5.590	
2 1/2"	3/16	40'	5.590	
2 1/2"	1/4	20'	7.110	FL. CONT
2 1/2"	1/4	40'	7.110	
3"	.083	20'	3.290	
3"	.083	24'	3.290	RO
3"	.120	20'	4.750	
3"	.120	40'	4.750	
3"	.134	20'	5.110	
3"	.134	24'	5.110	
3"	.134	40'	5.110	
3"	3/16	20'	6.870	
3"	3/16	40'	6.870	
3"	1/4	20'	8.810	
3"	1/4	40'	8.810	
3"	5/16	20'	10.580	
3"	5/16	40'	10.580	
3"	3/8	20'	12.170	
3"	3/8	24'	12.170	
3"	3/8	40'	12.170	
3 1/2"	.120	20'	5.610	
3 1/2"	.120	40'	5.610	
3 1/2"	3/16	20'	8.150	
3 1/2"	3/16	40'	8.150	
3 1/2"	1/4	20'	10.510	
3 1/2"	1/4	40'	10.510	
3 1/2"	5/16	40'	12.700	
3 1/2"	3/8	20'	14.710	
3 1/2"	3/8	40'	14.710	
4"	.083	24'	3.850	
4"	.083	20'	3.850	
4"	.120	20'	6.460	
4"	.120	24'	6.460	
4"	.120	40'	6.460	
4"	3/16	20'	9.420	
4"	3/16	24'	9.420	
4"	3/16	40'	9.420	
4"	6GA	20'	10.010	
4"	6GA	40'	10.010	
4"	1/4	20'	12.210	
4"	0.25	48'	12.210	HSLA-70
4"	1/4	40'	12.210	
4"	1/4	42'	12.210	
4"	5/16	20'	14.830	
4"	5/16	40'	14.830	
4"	3/8	20'	17.270	
4"	3/8	40'	17.270	
4"	1/2	20'	21.630	
4"	1/2	40'	21.630	
4 1/2"	3/16	40'	10.700	
5"	.120	20'	8.160	

### SQUARE TUBING Continued

W	WALL	L	WT/FT
5"	.120	40'	8.160
5"	3/16	20'	11.970
5"	3/16	40'	11.970
5"	1/4	20'	15.620
5"	1/4	40'	15.620
5"	3/8	20'	22.370
5"	3/8	40'	22.370
5"	1/2	20'	28.430
5"	1/2	40'	28.430
6"	3/16	20'	14.530
6"	3/16	40'	14.530
6"	3/16	20	14.530
6"	3/16	40'	14.530
6"	1/4	20'	19.020
6"	1/4	40'	19.020
6"	5/16	40'	23.340
6"	5/16	48'	23.340
6"	3/8	20'	27.480
6"	3/8	40'	27.480
6"	3/8	48'	27.480
6"	1/2	20'	35.240
6"	1/2	40'	35.240
6 1/2"	1/2	30'	35.240
7"	1/4	20'	22.420
7"	1/4	40'	22.420
7"	5/16	40'	27.590
7"	3/8	20'	32.580
7"	3/8	40'	32.580
7"	1/2	40'	42.050
7"	1/2	20'	42.050
8"	3/16	40'	19.630
8"	1/4	20'	25.820
8"	1/4	40'	25.820
8"	3/8	20'	37.690
8"	3/8	40'	37.690
8"	1/2	60'	48.850
8"	1/2	30'	48.850
8"	1/2	20'	48.850
8"	1/2	40'	48.850
9"	5/16	20'	36.100
9"	5/16	40'	36.100
10"	1/4	20'	32.630
10"	1/4	40'	32.630
10"	3/8	40'	47.900
12"	1/4	24'	39.430
12"	1/4	40'	39.430
12"	1/4	48'	39.430
12"	3/8	20'	59.145
12"	3/8	40'	59.145

HSLA-70  
HSLA-70

### GALVANIZED SQUARE TUBING 20'

W	WALL	WT/FT
1"	.049	0.634
1"	.065	0.827
1 1/2"	.120	2.410
2"	3/16	4.810
4"	1/4	13.180

### **STAINLESS**

### STAINLESS SQ TUBING

DIAM	WALL	WT/FT
1/2"	.065	0.385
1"	.065	0.827
1"	.120	1.436
1 1/4"	.083	1.317
1 1/4"	.120	1.844
1 1/2"	.083	1.599
1 1/2"	.120	2.252
2"	.120	3.050
2"	3/16	4.455
2"	1/4	5.410
2 1/2"	.120	3.880
3"	3/16	6.578
3"	1/4	8.810
4"	1/4	12.210

### **BALL VALVES**

### **MILWAUKEE**

### **CARBON STEEL**

### STEEL BALL VALVES 2PC MILWAUKEE

#### **Carbon Steel, #20CSOR-02**

2-piece, adaptor-loaded, carbon steel w/stainless ball/stem, NPT female end connection, single reduced bore port, stainless latch-lock handle spring-loaded, vented ball

SIZE	WEIGHT
1/4"	0.60 lb
3/8"	0.60 lb
1/2"	0.80 lb
3/4"	1.40 lb
1"	2.00 lb
1 1/4"	2.80 lb
1 1/2"	4.00 lb
2"	4.00 lb

### **BRONZE**

### MILWAUKEE BA SERIES BALL VALVE

#### **Bronze #BA-475-B**

Brass ball valve, 2-piece, full port, 600 WOG/150SWP, NPT-threaded ends

### **GALVANIZED**

### GALV PERF. TELESCOPIC TUBING

DIAM	WALL	L	WT/FT
1 3/4"	.105	24' 2"	2.060
2"	.105	24' 2"	2.416
2 1/4"	.105	24' 2"	2.773



MILWAUKEE BA SERIES BALL VALVE Continued

**Bronze #BA-475-B**

Brass ball valve, 2-piece, full port, 600 WOG/150SWP, NPT-threaded ends

SIZE	WEIGHT
1/4"	0.88 lb
3/8"	1.00 lb
1/2"	1.35 lb
3/4"	2.01 lb
1"	1.90 lb
1 1/4"	3.75 lb
1 1/2"	2.28 lb
2"	5.10 lb
3"	22.00 lb

**BUTTERFLY VALVES**

(WAFFER STYLE) - MILWAUKEE

**CAST IRON**

BUTTERFLY VALVES CAST IRON HP

**MW224V (VITON)**

Cast iron wafer-style body, lever handle, CF8M(316) stainless steel disc, viton liner

SIZE	WEIGHT
2"	10.00 lb
2 1/2"	11.00 lb
3"	12.00 lb
4"	15.00 lb
5"	19.00 lb
6"	23.00 lb
8"	39.00 lb
12"	79.00 lb

BUTTERFLY VALVES CAST IRON HP

**#MW222B(B), CAST IRON W/BUNA**

Cast iron wafer-style body, lever handle, nickel-plated ductile iron disc, buna-n liner

SIZE	WEIGHT
2"	10.00 lb
2 1/2"	11.00 lb
3"	12.00 lb
4"	15.00 lb
6"	23.00 lb
8"	39.00 lb
10"	58.00 lb
12"	79.00 lb

**BUTTERFLY VALVES**

(LUG STYLE) - MILWAUKEE

**CARBON STEEL**

BUTTERFLY VALVES CAST IRON HP

**ML222(B) CAST IRON W/BUNA**

Lug body, lever handle, cast iron body, nickel-plated ductile iron disc, buna-n liner

SIZE	WEIGHT
2"	11.00 lb
2 1/2"	12.50 lb
3"	13.00 lb
4"	20.00 lb
5"	24.00 lb
6"	28.00 lb
8"	44.00 lb
10"	76.00 lb
12"	111.00 lb

**CHECK VALVES**

**HAMMOND**

**CARBON STEEL**

PLUMBING HEATING VALVES BR5BRN

**STYLE967 - 200 PSI**

non-shock - cold water, oil or gas NPT-threaded ends and bonnet, brass body, integral seat, brass disc

SIZE	WEIGHT
1/2"	0.44 lb
3/4"	0.57 lb
1"	0.89 lb
1 1/4"	1.28 lb
1 1/2"	1.72 lb
2"	2.58 lb
2 1/2"	5.67 lb
3"	8.00 lb
4"	14.30 lb

**DO NOT USE For reciprocating air compressor service**

**GATE VALVES**

**MILWAUKEE**

**CARBON STEEL**

CAST IRON GATE VALVES MILWAUKEE

**Cast Iron IBBM #2885M 125#**

125 lb SWP-200 lb WOG (non-shock), OS and Y, solid wedge disc, bolted bonnet, gland packed, flanged ends

**CAST IRON GATE VALVES MILWAUKEE Continued**

**Cast Iron IBBM #2885M 125#**

125 lb SWP-200 lb WOG (non-shock), OS and Y, solid wedge disc, bolted bonnet, gland packed, flanged ends

SIZE	WEIGHT
2"	40.00 lb
2 1/2"	55.00 lb
3"	66.00 lb
4"	107.00 lb
5"	144.00 lb
6"	180.00 lb
8"	309.00 lb
10"	480.00 lb
12"	706.00 lb
14"	900.00 lb

**GATE VALVES**

**HAMMOND**

**BRONZE**

**PLUMBING HEATING VALVES BRBORN**

**STYLE 667 - 200 PSI**

non-shock - cold water, oil or gas NPT-threaded ends and m bonnet, brass body, integral seat, adjustable packing nut, non-rising stem, sold wedge disc, iron handwheel

SIZE	WEIGHT
3/8"	0.69 lb
1/2"	0.79 lb
3/4"	1.40 lb
1"	1.40 lb
1 1/4"	2.10 lb
1 1/2"	2.10 lb
2"	3.90 lb
2 1/2"	6.80 lb
3"	10.00 lb
4"	34.00 lb

**VALVES**

**GLOBE - MILWAUKEE**

**BRONZE GLOBE VALVES MILWAUKEE**

**150# Steam, Bronze, #590T**

150 lb SWP-300 lb WOG (non-shock), heavy-duty service, Teflon, disc, union bonnet, gland packed, NPT-threaded ends 590T: conforms to MSS SP-80 Type 2, Class 150, NPT-threaded ends

SIZE	WEIGHT
1/8"	0.58 lb
1/4"	0.67 lb
3/8"	0.67 lb

**BRONZE GLOBE VALVES MILWAUKEE Continued**

**150# Steam, Bronze, #590T**

150 lb SWP-300 lb WOG (non-shock), heavy-duty service, Teflon, disc, union bonnet, gland packed, NPT-threaded ends 590T: conforms to MSS SP-80 Type 2, Class 150, NPT-threaded ends

SIZE	WEIGHT
1/2"	0.90 lb
3/4"	1.50 lb
1"	2.10 lb
1 1/4"	2.70 lb
1 1/2"	4.60 lb
2"	8.50 lb
2 1/2"	14.00 lb
3"	30.30 lb

## Manufacturing Quality

### Custom Built by General Steel Customers

#### Hopper

...requires just one person for waste material handling when using the  $\frac{3}{4}$  cubic yard easy-dump container...

- Keep production moving - remove waste materials quickly, efficiently, and safely



#### Custom built pipe racks

Distributed by



3314 Clovis Rd.  
Lubbock, TX 79415  
806-763-7327  
800-658-2636 [www.general-steel.com](http://www.general-steel.com) [manager@general-steel.com](mailto:manager@general-steel.com)



#### Platforms

## Manufacturing Quality



**Toolbox**  
Manufactured from quality  
10-gage A36 material

**Custom sizes available**



**Control Panel**



**Manway covers**

Distributed by



3314 Clovis Rd.  
Lubbock, TX 79415  
806-763-7327  
800-658-2636 [www.general-steel.com](http://www.general-steel.com) [manager@general-steel.com](mailto:manager@general-steel.com)



## Manufacturing Quality



## FRAC TANK



## 8/10K GAL. DIESEL

Distributed by



3314 Clovis Rd.  
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806-763-7327  
800-658-2636

[www.general-steel.com](http://www.general-steel.com)

[manager@general-steel.com](mailto:manager@general-steel.com)

## Manufacturing Quality



Distributed by



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Lubbock, TX 79415  
806-763-7327  
800-658-2636  
www.general-steel.com  
manager@general-





## REFERENCE MATERIALS

- Chemical Resistance Guide
- Similarity Chart – Bronze & Iron Valves
- Pipe Dimension Chart
- New ASTM A1011-00 HR Steel Designations
- Fraction conversion Charts
- Material Properties
- Dimensional Specifications



# CHEMICAL RESISTANCE GUIDE

## MILWAUKEE VALVES

### EXPLANATION OF RATINGS:

- A – Excellent**
- B – Good**
- C – Fair**
- D – Poor**

NOTE: This guide has been prepared to aid in selecting the proper material for various media. This information is intended only as a general guide and should not be taken as a guarantee. To insure reliable performance, conduct an actual experiment using suggested elastomer, planned media, and actual service temperature and pressure conditions.

CHEMICALS	BUNA-N	EPDM	HYPALON	NEOPRENE	VITON	BRONZE	DUCTILE IRON	STAINLESS STEEL
Acetone	P	B	P	P	P	A	A	A
Air (Dry)	A	A	A	A	A	A	A	A
Alcohol, Butyl	B	B	B	B	A	B	A	A
Alcohol, Ethyl	A	A	B	B	-	B	A	B
Alcohol, Methyl	B	A	A	A	A	B	A	A
Asphalt	C	P	-	-	B	A	A	A
Aluminum Acetate	C	B	-	-	C	P	P	A
Ammonia Gas	B	A	P	B	P	A	-	A
Ammonia Liquid	C	A	P	B	P	P	-	A
Aniline Dies	P	B	C	C	B	P	B	A
Barium nitrate	A	A	B	A	A	P	A	A
Beer	A	A	A	B	A	B	P	-
Beet Sugar Liquors	-	A	A	B	C	A	B	A
Benzene (Benzol)	P	P	P	P	B	B	A	B
Brines, Saturated	B	B	B	B	B	B	P	B
Butane	P	A	B	B	B	A	A	B
Calcium Chloride	C	A	A	A	A	B	A	B
Carbon Tetrachloride	P	P	-	-	C	P	C	A
Chlorinate (10 ppm)	C	B	-	-	B	P	-	B
Citric Acid	B	B	A	A	-	P	P	A
Diesel Oil Fuels	A	P	C	C	A	A	A	A
Dioxane	P	P	B	B	P	A	A	A
Ethylene Glycol	A	A	A	A	A	B	A	B
Freon	B	A	A	A	P	B	B	A
Fructose	A	A	-	-	A	-	A	P
Fuel Oil	A	P	C	C	A	B	B	A
Gas, Natural	B	P	A	A	A	B	A	A
Gas, Sour	C	P	-	-	B	B	B	B
Gasoline, Unleaded	P	P	B	B	A	B	A	A
Glucose	A	B	A	A	-	A	A	-
Grease	A	P	-	-	A	P	A	A
Ink, Newsprint	B	A	-	B	B	P	A	A
JP-4 Fuel	A	P	P	P	A	A	A	A
Kerosene	A	P	C	B	A	A	A	A
Ketones	P	A	P	P	P	A	A	A
Latex	A	C	C	C	B	-	A	A
JP-4 Fuel	A	P	P	P	A	A	A	A

CHEMICALS	BUNA-N	EPDM	HYPALON	NEOPRENE	VITON	BRONZE	DUCTILE IRON	STAINLESS STEEL
Linseed Oil	A	C	B	B	A	A	A	A
LPG	A	P	P	C	B	A	A	B
Mineral Oils	A	P	B	B	A	A	A	A
Minewater	A	B	C	C	A	C	P	-
Molasses	A	P	A	A	B	A	A	A
Naptha	B	P	P	P	B	B	A	P
Nitric Acid, 10%	P	B	A	B	A	P	P	B
Nitric Acid, 100%	P	P	-	-	C	P	P	B
Nitrogen	-	A	-	-	-	A	A	A
Oleic Acid	B	C	B	B	C	B	C	B
Oxygen	C	A	A	A	A	A	A	A
Paints, Solvents	P	A	-	-	-	A	A	A
Paraffin	A	P	A	A	A	A	B	A
Phenol Gas	P	C	C	C	B	P	P	A
Tar	C	P	-	C	B	A	A	A
Salt Water	A	A	A	B	A	C	P	A
Soap Solutions	A	B	A	A	A	C	B	B
Sugar	A	A	A	A	A	B	B	A
Sulfate Liquor	P	C	B	B	B	P	-	A
Sulfite Liquor	C	A	B	B	B	P	B	B
Sulfuric Acid, 0-77%	C	B	B	P	B	P	P	B
Sulfuric Acid, 100%	P	P	B	P	P	P	P	P
Tannic Acid (Tannin)	B	A	A	A	B	B	B	B
Toluol (Tolurene)	C	P	P	P	B	A	A	A
Trichlorethylene	-	P	P	P	B	A	-	A
Turpentine	C	P	C	C	A	A	A	A
Varnish	B	P	-	-	B	B	-	-
Vinegar	P	A	A	B	A	P	P	A
Water and Lime	A	A	B	B	A	P	P	A

Rev. 2

Temperature Limitations –	
BUNA –N	+10E F to 180E F
EPDM	-30E F to 250E F
HYPALON	-10E F to 250E F
NEOPRENE-FDA	0E F to 180E F
VITON	-20E F to 300E F

The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design, and/or material specifications without notice. For the most current information access [www.milwaukeevalve.com](http://www.milwaukeevalve.com)

## SIMILARITY CHART- BRONZE &amp; IRON VALVES

Milwaukee	Crane	NIBCO	Stockham	Hammond	Grinnell	Jenkins	Lunkenheimer	Powell	Walworth
105	438/1701	T-113	B103	IB645	3000	992AJ	2129	507	4/7
115	1320/1701S	S-113	B104	IB647	3000SJ	993AJ	2133	1822	4SJ
118	459	T-124-O				820J			
148	428/1700	T-111	B100	IB640	3010	990AJ	2127	500	55/57
149	1330/1700S	S-111	B108	IB635	3010SJ	991AJ	2132	1821	55SJ
1140	437	T-133	B128	IB646	3050	370CJ	2153	512	14
1141		T-136	B130	IB638	3070			2712	
1150	431	T-131	B122	IB641	3060	47CJ	2151	514	56
1151	431UB	T-134	B120	IB629	3080	47CUJ	3151	2714	11
1152	428UB	T-124	B105	IB617			3127	2700	2
1153	422	T-154-A	B135			2270UJ		375	37
1156			B135	IB650			2227		3046
1169	1334	S-134	B124	IB648	3080SJ		3155		2SJ
1174	424		B132	IB651				2375	3036
1176	426		B140				2230	2380	3036
1182	622E	T-174-A	B144	IB652	3130			377	3048
1184	634E	T-174-SS	B145	IB654	3135	2280UJ		2377	
1186	636E	T-176-SS	B147	IB656			771	2382	3032
502	1/1703	T-211-B	B16	IB440	3200		2140	650	
1502	1702S	S-211-B	B17	IB418			126		
590T	7TF	T-235-Y	B22T	IB413T	3240	106BJ	123	150	3095
1590T	1310	S-235-Y	B20T	IB423	3240SJ	1200CJ		1823	3095SJ
591A	14-1/2P		B29			2032J	LQ600-150	2600	
592A	212P	T-256-AP	B62	IB434			LQ600-200	2608	3245P
593A	382P	T-276-AP	B74	IB444	3270	556PJ	16PS	2612	3260P
570			B37			2050J	407	110	
572		T-275-B	B66	IB412	3255		409	120	3205
600	88		B64	IB415		743CJ	906BS	180	
504	2	T-311-B	B216	IB463	3220		2141		3059
595T	17TF	T-335-Y	B222T	IB454T	3245	108BJ	214	151	3096
582	384P	T-375-B	B266		3280	558CJ	17PS	2614	
509	37/1707	T-413-B	B319	IB904	3300		2144	578	3406
509 T	41TF	T-413-Y	B320TY	IB940	3310				
548 B				943	3615			180	
548 T		T-480-Y			3600				
1509	1340/1707S	S-413-B	B309Y	IB912	3300SJ		2145	1825	3406SJ
1509 T		S-413-Y	B310TY		3310SJ				
1548B				947	3600SJ				
1548 T		S-480-Y			3615SJ				
510	137		B321		3320	4092J			
510 T	141TF	T-433-Y		IB946	3330	352CYJ	230-70	596	3412
515									
1510	1342				3320SJ	4093J			
1510 T		S-433-Y		IB945	3330SJ				
508	36	T-453-B	B345	IB944				560Y	3420

Milwaukee	Crane	NIBCO	Stockham	Hammond	Grinnell	Jenkins	Lunkenheimer	Powell	Walworth
507	76E	T-473-B	B375	IB949	3370	4962J	554Y	563Y	3428
1400		W-1910-B	WG970	IR9253					
1800		F-910-B		IR9354					
2882	461	F-619	G612	IR1138	6060A	326CJ	1428	1787	8719F
2882M26	473	F-619-N	G613	IR1144		523CJ	1576	1799	8720F
2885	465 1/2	F-617-O	G623	IR1140	6020A	651CJ	1430	1793	8726F
2885-M13	14477		AG642	IR1913			1578N4	1893	8724FS
2885M26	475 1/2	F-617-ON	G624	IR1146	6020A1	100CJ	1578	1816	
2885FP	467	F-607-OTS				825CJ			
2981	351	F-718-B	G512	IR116	6200A	613CJ	1123	241	8906F
2974	373	F-918-B	G931	IR1124	6300A	624CJ	1790	559	8928F
2974-M13	14493		AG931	IR1937			1572N-4	559P	8928FS
2974FP	375	F-908-W				477J			
2974LW	383	F-918-BL&W	G931-L&W			477LJ			
2974M26	373 1/2	F-918-N	G933	IR1126	6300A1	85CJ	1792	1259	8928-1/2F
2894	7-1/2E	F-667-O	F667	IR330	6100A	204CJ	1436	1797	8786F
2983	21E	F-768-B	F532	IR313	6250A	923CJ	884	256	8955F
2970	39E	F-968	F947	IR322	6450A	339CJ	323	576	8970F
2887M	490		G679				1572N4		
2888M	488		G675	IR337		40BJ	1644		

**General Steel is now a factory-authorized distributor for Milwaukee and Hammond valves. Many items are already in stock.**



Photo courtesy of Milwaukee Valves.

**Please call for your specific needs.**

### PIPE DIMENSION CHART

Black, Galvanized, Coated and Threaded & Coupled Pipe – Wall															
Size	O.D.	Wall thickness in inches						pounds per foot							
		5	10	20	30	Std.	40	60	XH	80	100	120	140	160	XXH
1/8	.405	.035 .138	.049 .186			.068 .245	.068 .245		.095 .315	.095 .315					
1/4	.540	.049 .257	.065 .330			.088 .425	.088 .425		.119 .535	.119 .535					
3/8	.675	.049 .328	.065 .424			.091 .568	.091 .568		.126 .738	.126 .738					
1/2	.840	.065 .538	.083 .671			.109 .851	.109 .851		.147 1.088	.147 1.088				.188 1.304	.294 1.714
3/4	1.050	.065 .689	.083 .857			.113 1.131	.113 1.131		.154 1.474	.154 1.474				.219 1.94	.308 2.441
1	1.315	.065 .868	.109 1.404			.133 1.679	.133 1.379		.179 2.172	.179 2.172				.250 2.844	.358 3.659
1-1/4	1.660	.065 1.107	.109 1.806			.140 2.273	.140 2.273		.191 2.997	.191 2.997				.250 3.765	.382 5.214
1 1/2	1.900	.065 1.274	.109 2.085			.145 2.718	.145 2.718		.200 3.631	.200 3.631				.281 4.859	.400 6.408
2	2.375	.065 1.604	.109 2.638			.154 3.653	.154 3.653		.218 5.022	.218 5.022				.344 7.46	.436 9.029
2-1/2	2.875	.083 2.475	.120 3.531			.203 5.793	.203 5.793		.276 7.661	.276 7.661				.375 10.01	.552 13.70
3	3.50	.083 3.029	.120 4.332			.216 7.576	.216 7.576		.300 10.25	.300 10.25				.438 14.32	.600 18.58
3-1/2	4.00	.083 3.472	.120 4.973			.226 9.109	.226 9.109		.318 12.51	.318 12.51					.636 22.85
4	4.50	.083 3.915	.120 5.613			.237 10.79	.237 10.79	.281 12.66	.337 14.98	.337 14.98		.438 19.01		.531 22.51	.674 27.54
4-1/2	5.00					.247 12.53	.247 12.53		.355 17.61						.710 32.53
5	5.563	.109 6.349	.134 7.770	.203 11.62		.258 14.62	.258 14.62		.375 20.78	.375 20.78		.500 27.04		.625 32.96	.750 38.55
6	6.625	.109 7.585	.134 9.289	.203 13.92		.280 18.97	.280 18.97		.432 28.57	.432 28.57		.562 36.39		.719 45.35	.864 53.16
7	7.625					.301 23.57			.500 38.05						.875 63.08
8	8.625	.109 9.914	.148 13.40	.250 22.36	.277 24.70	.322 28.55	.322 28.55	.406 35.64	.500 43.39	.500 43.39	.594 50.95	.719 60.71	.812 67.76	.906 74.69	.875 72.42
9	9.625					.342 33.90			.500 48.72						
10	10.75	.134 15.19	.165 18.70	.250 28.04	.307 34.24	.365 40.48	.365 40.48	.500 54.74	.500 54.74	.594 64.43	.719 77.03	.844 89.29	1.000 104.13	1.125 115.64	1.000 104.13
11	11.75					.375 45.55			.500 60.07						
12	12.75	.165 22.18	.180 24.20	.250 33.38	.330 41.77	.375 49.56	.406 53.53	.562 73.16	.500 65.42	.688 88.63	.844 107.32	1.000 125.50	1.125 139.70	1.312 160.30	
14	14.00		.250 36.71	.312 45.61	.375 54.57	.375 54.57	.438 63.44	.594 85.05	.500 72.09	.750 106.10	.938 130.85	1.094 150.79	1.250 170.20	1.406 189.10	
16	16.00		.250 42.05	.312 52.27	.375 62.58	.375 62.58	.500 82.77	.656 107.50	.500 82.77	.844 136.60	1.031 164.80	1.219 192.43	1.438 223.64	1.594 245.25	
18	18.00		.250 47.39	.312 58.94	.375 82.15	.375 70.59	.562 104.67	.750 138.20	.500 93.45	.938 170.92	1.156 207.96	1.375 244.10	1.562 274.20	1.781 308.50	
20	20.00		.250 52.73	.375 78.60	.500 104.10	.375 78.60	.594 123.11	.812 166.40	.500 104.10	1.031 208.90	1.281 256.10	1.500 296.40	1.750 341.10	1.969 379.20	
22	22.00		.250 58.07	.375 86.61	.500 114.80	.375 86.61		.875 197.40	.500 114.80	1.125 250.80	1.375 302.88	1.625 353.60	1.875 403.00	2.125 451.10	
24	24.00		.250 63.41	.375 94.62	.500 140.80	.375 94.62	.688 171.29	.969 238.85	.500 125.50	1.125 296.58	1.531 367.40	1.812 429.40	2.062 483.10	2.344 542.10	
26	26.00		.312 85.60	.500 136.17		.375 102.63			.500 136.17						
28	28.00		.312 92.26	.500 146.85	.625 182.73	.375 110.64			.500 146.85						
30	30.00		.312 98.93	.500 157.53	.625 196.08	.375 118.65			.500 157.53						
32	32.00		.312 105.59	.500 168.21	.625 209.43	.375 126.66	.688 230.08		.500 168.21						
34	34.00		.312 112.25	.500 178.89	.625 222.78	.375 134.67	.688 244.77		.500 178.89						
36	36.00		.312 118.92	.500 189.57	.625 236.13	.375 142.68	.750 282.35		.500 189.57						
42	42.00					.375 166.71			.500 221.61						
48	48.00					.375 190.74			.500 253.65						

**NEW ASTM A1011-00 HR STEEL DESIGNATIONS**

OLD DESIGNATION	NEW DESIGNATION
ASTM A569 · CS TYPE A · CS TYPE B · CS TYPE C	ASTM A1011 · CS TYPE A · CS TYPE B · CS TYPE C
ASTM A570SS · GRADE 30 · GRADE 33 · GRADE 36 TYPE 1 OR TYPE 2 · GRADE 40 · GRADE 45 · GRADE 50 · GRADE 55	ASTM A1011 SS GRADE 30 · GRADE 33 · GRADE 36 TYPE 1 OR TYPE 2 · GRADE 40 · GRADE 45 · GRADE 50 · GRADE 55
ASTM A607 HSLAS · GRADE 45 CLASS 1 OR CLASS 2 · GRADE 50 CLASS 1 OR CLASS 2 · GRADE 55 CLASS 1 OR CLASS 2 · GRADE 60 CLASS 1 OR CLASS 2 · GRADE 65 CLASS 1 OR CLASS 2 · GRADE 70 CLASS 1 OR CLASS 2	ASTM A1011 HSLAS · GRADE 45 CLASS 1 OR CLASS 2 · GRADE 50 CLASS 1 OR CLASS 2 · GRADE 55 CLASS 1 OR CLASS 2 · GRADE 60 CLASS 1 OR CLASS 2 · GRADE 65 CLASS 1 OR CLASS 2 · GRADE 70 CLASS 1 OR CLASS 2
ASTM A622 DS · TYPE A · TYPE B	ASTM A1011 DS · TYPE A · TYPE B
ASTM A715 HSLAS-F · GRADE 50 · GRADE 60 · GRADE 70 · GRADE 80	ASTM A1011 HSLAS-F · GRADE 50 · GRADE 60 · GRADE 70 · GRADE 80



INCHES		DEC OF A FT.		INCHES		DEC OF A FT.		INCHES		DEC OF A FT.	
0"	1/16	0052	4"	1/16	3385	8"	1/16	6719			
	1/8	0104		1/8	3438		1/8	6771			
	3/16	0156		3/16	3490		3/16	6823			
	1/4	0208		1/4	3542		1/4	6875			
	5/16	0260		5/16	3594		5/16	6927			
	3/8	0313		3/8	3646		3/8	6979			
	7/16	0365		7/16	3698		7/16	7031			
	1/2	0417		1/2	3750		1/2	7083			
	9/16	0469		9/16	3802		9/16	7135			
	5/8	0521		5/8	3854		5/8	7188			
	11/16	0573		11/16	3906		11/16	7240			
	3/4	0625		3/4	3958		3/4	7292			
	13/16	0677		13/16	4010		13/16	7344			
	7/8	0729		7/8	4063		7/8	7396			
	15/16	0781		15/16	4115		15/16	7448			
1" .0833	1/16	0885	5"	1/16	4219	9".7500	1/16	7552			
	1/8	0938		1/8	4271		1/8	7604			
	3/16	0990		3/16	4323		3/16	7656			
	1/4	1042		1/4	4375		1/4	7708			
	5/16	1094		5/16	4427		5/16	7760			
	3/8	1146		3/8	4479		3/8	7813			
	7/16	1198		7/16	4531		7/16	7865			
	1/2	1250		1/2	4583		1/2	7917			
	9/16	1302		9/16	4635		9/16	7969			
	5/8	1354		5/8	4688		5/8	8021			
	11/16	1406		11/16	4740		11/16	8073			
	3/4	1458		3/4	4792		3/4	8125			
	13/16	1510		13/16	4844		13/16	8177			
	7/8	1563		7/8	4896		7/8	8229			
	15/16	1615		15/16	4948		15/16	8281			
2" .1667	1/16	1719	6"	1/16	5052	10"	1/16	8385			
	1/8	1771		1/8	5104		1/8	8438			
	3/16	1823		3/16	5156		3/16	8490			
	1/4	1875		1/4	5208		1/4	8542			
	5/16	1927		5/16	5260		5/16	8594			
	3/8	1979		3/8	5313		3/8	8646			
	7/16	2031		7/16	5365		7/16	8698			
	1/2	2083		1/2	5417		1/2	8750			
	9/16	2135		9/16	5469		9/16	8802			
	5/8	2188		5/8	5521		5/8	8854			
	11/16	2240		11/16	5573		11/16	8906			
	3/4	2292		3/4	5625		3/4	8958			
	13/16	2344		13/16	5677		13/16	9010			
	7/8	2396		7/8	5729		7/8	9063			
	15/16	2448		15/16	5781		15/16	9115			
3 .2500	1/16	2552	7"	1/16	5885	11"	1/16	9219			
	1/8	2604		1/8	5938		1/8	9271			
	3/16	2656		3/16	5990		3/16	9323			
	1/4	2708		1/4	6042		1/4	9375			
	5/16	2760		5/16	6094		5/16	9427			
	3/8	2813		3/8	6146		3/8	9479			
	7/16	2865		7/16	6198		7/16	9531			
	1/2	2917		1/2	6250		1/2	9583			
	9/16	2969		9/16	6302		9/16	9635			
	5/8	3021		5/8	6354		5/8	9688			
	11/16	3073		11/16	6406		11/16	9740			
	3/4	3125		3/4	6458		3/4	9792			
	13/16	3177		13/16	6510		13/16	9844			
	7/8	3229		7/8	6563		7/8	9896			
	15/16	3281		15/16	6615		15/16	9948			

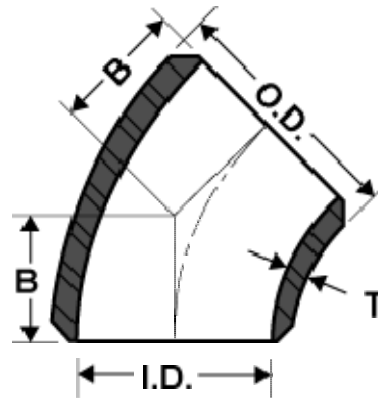
FRACTION INCHES = DECIMAL INCHES = MM							
FRACTION	DEC	MM	FRACTION	DEC	MM		
	1/64	.016	.397	<b>5/8</b>	.625	15.875	
	1/32	.031	.794		41/64	.641	16.272
	3/64	.047	1.191		21/32	.656	16.669
	1/16	.063	1.588		43/64	.672	17.066
	5/64	.078	1.984		11/16	.688	17.463
	3/32	.094	2.381		45/64	.703	17.859
	7/64	.109	2.778		23/32	.719	18.256
<b>1/8</b>		.125	3.175		47/64	.734	18.653
	9/64	.141	3.572	<b>3/4</b>		.750	19.050
	5/32	.156	3.969		49/64	.766	19.447
	11/64	.172	4.366		25/32	.781	19.844
	3/16	.188	4.763		51/64	.797	20.241
	13/64	.203	5.159		13/16	.813	20.638
	7/32	.219	5.556		53/64	.828	21.034
	15/64	.234	5.953		27/32	.844	21.431
<b>1/4</b>		.250	6.350		55/64	.859	21.828
	17/64	.266	6.747	<b>7/8</b>		.875	22.225
	9/32	.281	7.144		57/64	.891	22.622
	19/64	.297	7.541		29/32	.906	23.019
	5/16	.313	7.938		59/64	.922	23.416
	21/64	.328	8.334		15/16	.938	23.813
	11/32	.344	8.731		61/64	.953	24.209
	23/64	.359	9.126		31/32	.969	24.606
<b>3/8</b>		.375	9.525		63/64	.984	25.003
	25/64	.391	9.922	<b>1</b>		1.000	25.400
	13/32	.406	10.319	<b>2</b>		2.000	50.800
	27/64	.422	10.716				
	7/16	.438	11.113	<b>3</b>		3.000	76.200
	29/64	.453	11.509	<b>4</b>		4.000	101.600
	15/32	.469	11.906	<b>5</b>		5.000	127.000
	31/64	.484	12.303				
<b>1/2</b>		.500	12.700				
	33/64	.516	13.097	<b>10</b>		10.000	254.000
	17/32	.531	13.494	<b>15</b>		15.000	381.000
	35/64	.547	13.891				
	9/16	.563	14.288	<b>20</b>		20.000	508.000
	37/64	.578	14.684	<b>25</b>		25.000	635.000
	19/32	.594	15.081	<b>50</b>		50.000	1270.000
	39/64	.609	15.478	<b>100</b>		100.000	2540.000

UNCOATED STEEL SHEETS				GALVANIZED SHEETS			
GA	DEC	TOLERANCE	WT/FT <sup>2</sup>	GA	DEC	TOLERANCE	WT/FT <sup>2</sup>
7	.1793	.1868 TO .1719	7.660	10	.1382	.1457 TO .1308	5.7812
10	.1345	.1419 TO .1271	5.625	12	.1084	.1158 TO .1009	4.5312
11	.1196	.1270 TO .1121	5.000	14	.0785	.0859 TO .0748	3.2812
12	.1046	.1120 TO .0972	4.375	16	.0635	.0672 TO .0606	2.6562
14	.0747	.0821 TO .0710	3.125	18	.0516	.0545 TO .0486	2.1562
16	.0598	.0635 TO .0568	2.500	20	.0396	.0425 TO .0382	1.6562
				22	.0336	.0351 TO .0322	1.4062
				24	.0276	.0291 TO .0262	1.1562
				28	.0187	.0194 TO .0181	.7812

## Material Properties

ASTM	Yield (Ksi)	Weldability	Brinell Hardness
A-36	36 Ksi (min)	Excellent	
A516-70	38 Ksi (min)	Excellent	
AR Plate	70 Ksi	Fair	235
A572-50	50 Ksi		
A366	25-35 Ksi		
A569/A570 P & O Grade 30 Grade 33	30 Ksi 33 Ksi	Yes	
C1018	70 Ksi	Excellent	167
C1045	85	Poor	223
12L14	70	Poor	163
Stressproof	100 Ksi (min)	Poor	260 min
4140	90 Ksi	Fair	285
A53 Grade A Grade B	30 Ksi 35 Ksi	Excellent Excellent	
A106 Grade B	35 Ksi		RB78
A500 Grade A Grade B Grade C	39 Ksi 46 Ksi 50 Ksi	Excellent Excellent Excellent	
A513	40 Ksi	Excellent	RB60
A513 Dom	70 Ksi	Excellent	RB80
T-1/514 Grade B	100 Ksi (up to ¼" incl)	Good	235-293

**45° Elbows**  
**STANDARD WEIGHT**  
**Inches / Pounds**

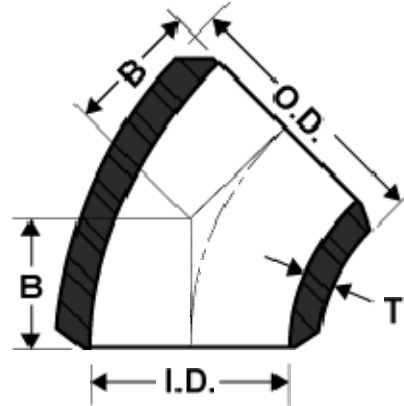


Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center to End (B)	Pipe Schedule	Weight in Pounds
1/2	.840	.622	.109	0.62	40	0.09
3/4	1.05	.824	.113	0.75	40	0.10
1	1.32	1.05	.133	0.88	40	0.22
1 1/4	1.66	1.38	.140	1.00	40	0.33
1 1/2	1.90	1.61	.145	1.12	40	0.43
2	2.38	2.07	.154	1.38	40	0.85
2 1/2	2.88	2.47	.203	1.75	40	1.7
3	3.50	3.07	.216	2.00	40	2.5
3 1/2	4.00	3.55	.226	2.25	40	3.4
4	4.50	4.03	.237	2.50	40	4.5
5	5.56	5.05	.258	3.12	40	7.5
6	6.62	6.06	.280	3.75	40	11.7
8	8.62	7.98	.322	5.00	40	23.3
10	10.75	10.02	.365	6.25	40	40.9
12	12.75	12.00	.375	7.50	*	61.4
14	14.00	13.25	.375	8.75	30	78.1
16	16.00	15.25	.375	10.00	30	101
18	18.00	17.25	.375	11.25	*	128
20	20.00	19.25	.375	12.50	20	159
24	24.00	23.25	.375	15.00	20	231
30	30.00	29.25	.375	18.50	*	358
36	36.00	35.25	.375	22.25	*	518
42	42.00	41.25	.375	26.00	*	707
48	48.00	47.25	.375	29.88	*	1,000

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

**45° Elbows**  
**EXTRA STRONG**  
**Inches / Pounds**



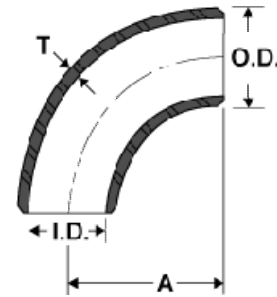
Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center to End (B)	Pipe Schedule	Weight in Pounds
1/2	.840	.546	.147	0.62	80	0.15
3/4	1.05	.742	.154	0.75	80	0.16
1	1.32	.957	.179	0.88	80	0.28
1 1/4	1.66	1.28	.191	1.00	80	0.45
1 1/2	1.90	1.50	.200	1.12	80	0.61
2	2.38	1.94	.218	1.38	80	1.2
2 1/2	2.88	2.32	.276	1.75	80	2.0
3	3.50	2.90	.300	2.00	80	3.3
3 1/2	4.00	3.36	.318	2.25	80	4.5
4	4.50	3.83	.337	2.50	80	6.2
5	5.56	4.81	.375	3.12	80	10.5
6	6.62	5.76	.432	3.75	80	17.0
8	8.62	7.63	.500	5.00	80	34.3
10	10.75	9.75	.500	6.25	60	53.5
12	12.75	11.75	.500	7.50	*	77.6
14	14.00	13.00	.500	8.75	*	100.0
16	16.00	15.00	.500	10.00	40	134.0
18	18.00	17.00	.500	11.25	*	170.0
20	20.00	19.00	.500	12.50	30	209.0
24	24.00	23.00	.500	15.00	*	302.0
30	30.00	29.00	.500	18.50	20	475.1
36	36.00	35.00	.500	22.25	20	686.1
42	42.00	41.00	.500	26.00	*	936.1
48	48.00	47.00	.500	29.88	*	1250.0

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Long Radius 90° Elbows

STANDARD WEIGHT  
Inches / Pounds



Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To End (A)	Pipe Schedule	Weight In Pounds
1/2	0.84	.622	.109	1.50	40	0.16
3/4	1.05	.824	.113	1.50	40	0.17
1	1.32	1.049	.133	1.50	40	0.40
1 1/4	1.66	1.38	.140	1.88	40	0.55
1 1/2	1.90	1.61	.145	2.25	40	0.8
2	2.38	2.07	.154	3.00	40	1.6
2 1/2	2.88	2.47	.203	3.75	40	3.2
3	3.50	3.07	.216	4.50	40	4.8
3 1/2	4.00	3.55	.226	5.25	40	6.6
4	4.50	4.03	.237	6.00	40	8.9
5	5.56	5.05	.258	7.50	40	15.1
6	6.62	6.07	.280	9.00	40	24
8	8.62	7.98	.322	12.00	40	47.8
10	10.75	10.02	.365	15.00	40	83.4
12	12.75	12.00	.375	18.00	*	123
14	14.00	13.25	.375	21.00	30	155
16	16.00	15.25	.375	24.00	30	206
18	18.00	17.25	.375	27.00	*	262
20	20.00	19.25	.375	30.00	20	324
24	24.00	23.25	.375	36.00	20	466
30	30.00	29.25	.375	45.00	*	720
36	36.00	35.25	.375	54.00	*	1,039
42	42.00	41.25	.375	63.00	*	1,420
48	48.00	47.25	.375	72.00	*	2,000

\* This Size and thickness does not correspond to any pipe schedule number.

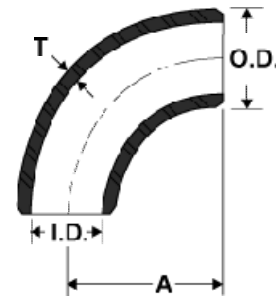
Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B



# Long Radius 90° Elbows

**EXTRA STRONG**

**Inches / Pounds**



Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To End (A)	Pipe Schedule	Weight in Pounds
1/2	0.84	.546	.147	1.50	80	0.26
3/4	1.05	.742	.154	1.50	80	0.29
1	1.32	.957	.179	1.50	80	0.48
1 1/4	1.66	1.27	.191	1.88	80	0.79
1 1/2	1.90	1.50	.200	2.25	80	1.2
2	2.37	1.93	.218	3.00	80	2.1
2 1/2	2.88	2.32	.276	3.75	80	3.8
3	3.50	2.90	.300	4.50	80	6.3
3 1/2	4.00	3.36	.318	5.25	80	8.6
4	4.50	3.82	.337	6.00	80	12.5
5	5.56	4.81	.375	7.50	80	21.2
6	6.63	5.76	.432	9.00	80	34.4
8	8.63	7.63	.500	12.00	80	71.3
10	10.75	9.75	.500	15.00	60	111
12	12.75	11.75	.500	18.00	*	158
14	14.00	13.00	.500	21.00	*	201
16	16.00	15.00	.500	24.00	40	270
18	18.00	17.00	.500	27.00	*	348
20	20.00	19.00	.500	30.00	30	422
24	24.00	23.00	.500	36.00	*	604
30	30.00	29.00	.500	45.00	20	997
36	36.00	35.00	.500	54.00	20	1,380
42	42.00	41.00	.500	63.00	*	1,880
48	48.00	47.00	.500	72.00	*	2,502

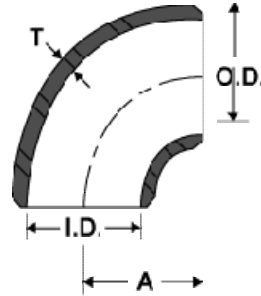
\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Short Radius 90° Elbows

## STANDARD WEIGHT

### Inches / Pounds



Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To End (A)	Pipe Schedule	Weight In Pounds
1	1.32	1.05	.133	1.00	40	0.25
1 1/4	1.66	1.38	.140	1.25	40	0.39
1 1/2	1.90	1.61	.145	1.50	40	0.53
2	2.38	2.07	.154	2.00	40	0.97
2 1/2	2.88	2.47	.203	2.50	40	2
3	3.50	3.07	.216	3.00	40	3
3 1/2	4.00	3.55	.226	3.50	40	4.3
4	4.50	4.03	.237	4.00	40	6.1
5	5.56	5.05	.258	5.00	40	9.7
6	6.63	6.07	.280	6.00	40	16.7
8	8.63	7.98	.322	8.00	40	32.4
10	10.75	10.02	.365	10.00	40	56.3
12	12.75	12.00	.375	12.00	*	79.4
14	14.00	13.25	.375	14.00	30	104
16	16.00	15.25	.375	16.00	30	129
18	18.00	17.25	.375	18.00	*	163
20	20.00	19.25	.375	20.00	20	210
24	24.00	23.25	.375	24.00	20	297
30	30.00	29.25	.375	30.00	*	480
36	36.00	35.25	.375	36.00	*	692
42	42.00	41.25	.375	42.00	*	967
48	48.00	47.25	.375	48.00	*	1,340

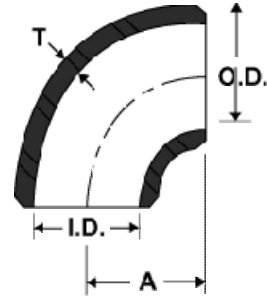
\* This size and thickness does not correspond to any pipe schedule

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Short Radius 90° Elbows

**EXTRA STRONG**

**Inches / Pounds**



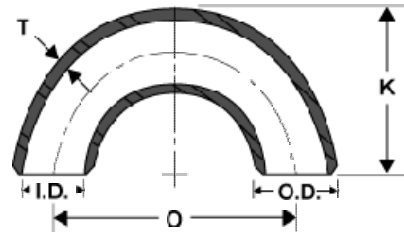
Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To End (A)	Pipe Schedule	Weight In Pounds
1 1/2	1.90	1.50	.200	1.50	80	0.75
2	2.38	1.94	.218	2.00	80	1.5
2 1/2	2.88	2.32	.276	2.50	80	2.6
3	3.50	2.90	.300	3.00	80	3.8
3 1/2	4.00	3.36	.318	3.50	80	5.4
4	4.50	3.83	.337	4.00	80	7.6
5	5.56	4.81	.375	5.00	80	13.8
6	6.63	5.76	.432	6.00	80	22.8
8	8.63	7.62	.500	8.00	80	47.3
10	10.75	9.75	.500	10.00	60	71
12	12.75	11.75	.500	12.00	*	104
14	14.00	13.00	.500	14.00	*	137
16	16.00	15.00	.500	16.00	40	171
18	18.00	17.00	.500	18.00	*	214
20	20.00	19.00	.500	20.00	30	277
24	24.00	23.00	.500	24.00	*	390
30	30.00	29.00	.500	30.00	20	634
36	36.00	35.00	.500	36.00	20	913
42	42.00	41.00	.500	42.00	*	1,300
48	48.00	47.00	.500	48.00	*	1,675

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Long Radius 180° Return Bends

STANDARD WEIGHT  
Inches / Pounds



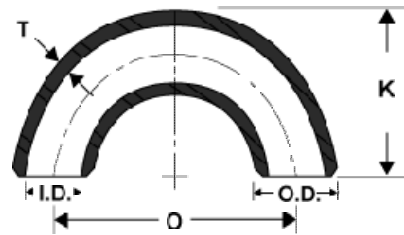
Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To Center (O)	Back To Face (K)	Pipe Schedule	Weight In Pounds
1/2	0.84	.622	.109	3.00	1.88	40	.32
3/4	1.05	.824	.113	2.25	1.69	40	.34
1	1.31	1.049	.133	3.00	2.19	40	.74
1 1/4	1.66	1.380	.140	3.75	2.75	40	1.1
1 1/2	1.90	1.610	.145	4.50	3.25	40	1.6
2	2.38	2.067	.154	6.00	4.19	40	3.2
2 1/2	2.88	2.469	.203	7.50	5.19	40	6.1
3	3.50	3.068	.216	9.00	6.25	40	9.4
3 1/2	4.00	3.548	.226	10.50	7.25	40	12.8
4	4.50	4.026	.237	12.00	8.25	40	17.5
5	5.56	5.047	.258	15.00	10.31	40	29.3
6	6.63	6.065	.280	18.00	12.31	40	47
8	8.63	7.981	.322	24.00	16.31	40	87
10	10.75	10.020	.365	30.00	20.38	40	164
12	12.75	12.000	.375	36.00	24.38	*	237
14	14.00	13.250	.375	42.00	28.00	30	311
16	16.00	15.250	.375	48.00	32.00	30	408
18	18.00	17.250	.375	54.00	36.00	*	514
20	20.00	19.250	.375	60.00	40.00	20	636
24	24.00	23.250	.375	72.00	48.00	20	908

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Long Radius 180° Return Bends

**EXTRA STRONG**  
Inches / Pounds



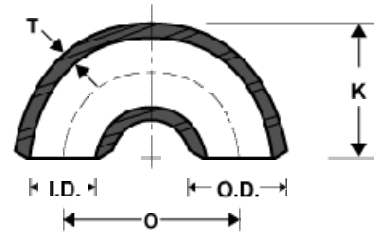
Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To Center (O)	Back To Face (K)	Pipe Schedule	Weight In Pounds
1/2	0.84	.546	.147	3.00	1.31	80	.45
3/4	1.05	.742	.154	2.25	1.69	80	.52
1	1.32	.957	.179	3.00	2.12	80	.97
1 1/4	1.66	1.28	.191	3.75	2.75	80	1.6
1 1/2	1.90	1.50	.200	4.50	3.25	80	2.2
2	2.38	1.94	.218	6.00	4.12	80	4.1
2 1/2	2.88	2.32	.276	7.50	5.12	80	7.7
3	3.50	2.90	.300	9.00	6.25	80	12.4
3 1/2	4.00	3.36	.318	10.50	7.25	80	17.1
4	4.50	3.83	.337	12.00	8.25	80	24.1
5	5.56	4.81	.375	15.00	10.31	80	41.7
6	5.76	5.76	.432	18.00	12.31	80	68.2
8	8.63	7.63	.500	24.00	16.31	80	140
10	10.75	9.75	.500	30.00	20.38	60	217
12	12.75	11.75	.500	36.00	24.38	*	311
14	14.00	13.00	.500	42.00	28.00	*	400
16	16.00	15.00	.500	48.00	32.00	40	540
18	18.00	17.00	.500	54.00	36.00	*	686
20	20.00	19.00	.500	60.00	40.00	30	840
24	24.00	23.00	.500	72.00	48.00	*	1210

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Short Radius 180° Return Bends

STANDARD WEIGHT  
Inches / Pounds



Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center to Center (O)	Back to Face (K)	Pipe Schedule	Weight in Pounds
1	1.32	1.05	.133	2.00	1.62	40	.50
1 1/4	1.66	1.38	.140	2.50	2.06	40	.80
1 1/2	1.90	1.61	.145	3.00	2.44	40	1.1
2	2.38	2.07	.154	4.00	3.19	40	1.9
2 1/2	2.88	2.47	.203	5.00	3.94	40	4
3	3.50	3.07	.216	6.00	4.75	40	6
3 1/2	4.00	3.55	.226	7.00	5.50	40	8.7
4	4.50	4.03	.237	8.00	6.25	40	12.2
5	5.56	5.05	.258	10.00	7.75	40	19.2
6	6.62	6.07	.280	12.00	9.31	40	32.9
8	8.62	7.98	.322	16.00	12.31	40	64.9
10	10.75	10.02	.365	20.00	15.38	40	112
12	12.75	12.00	.375	24.00	18.38	*	157
14	14.00	13.25	.375	28.00	21.00	30	208
16	16.00	15.25	.375	32.00	24.00	30	257
18	18.00	17.25	.375	36.00	27.00	*	325
20	20.00	19.25	.375	40.00	30.00	20	416
24	24.00	23.25	.375	48.00	36.00	20	592

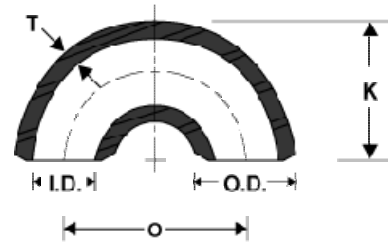
\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B



# Short Radius 180° Return Bends

**EXTRA STRONG**  
Inches / Pounds



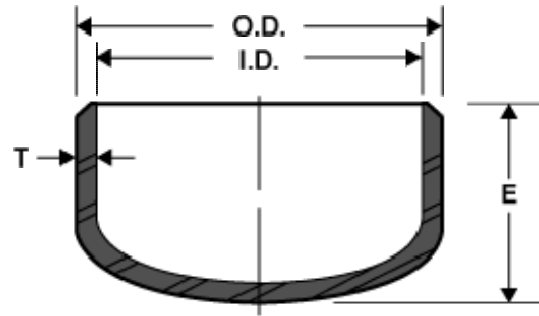
Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center to Center (O)	Back to Face (K)	Pipe Schedule	Weight in Pounds
1 1/2	1.90	1.50	.200	3.00	2.44	80	1.5
2	2.37	1.93	.218	4.00	3.19	80	2.9
2 1/2	2.87	2.32	.276	5.00	3.94	80	5.2
3	3.50	2.90	.300	6.00	4.75	80	8.2
3 1/2	4.00	3.36	.318	7.00	5.50	80	11.7
4	4.50	3.83	.337	8.00	6.25	80	16.4
5	5.56	4.81	.375	10.00	7.75	80	27.7
6	6.62	5.76	.432	12.00	9 5/16	80	45.7
8	8.62	7.62	.500	16.00	12.31	80	96.3
10	10.75	9.75	.500	20.00	15.38	60	143
12	12.75	11.75	.500	24.00	18.38	*	212
14	14.00	13.00	.500	28.00	21.00	*	271
16	16.00	15.00	.500	32.00	24.00	40	339
18	18.00	17.00	.500	36.00	27.00	*	425
20	20.00	19.00	.500	40.00	30.00	30	555
24	24.00	23.00	.500	48.00	36.00	*	778

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Caps

STANDARD WEIGHT  
Inches / Pounds

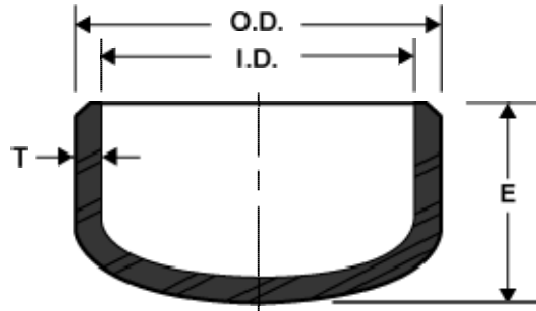


Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Length (E)	Pipe Schedule	Weight in Pounds
1/2	0.84	.622	.109	1.00	40	0.08
3/4	1.05	.824	.113	1.25	40	0.14
1	1.32	1.049	.133	1.50	40	0.21
1 1/4	1.66	1.380	.140	1.50	40	0.33
1 1/2	1.90	1.610	.145	1.50	40	0.54
2	2.38	2.067	.154	1.50	40	0.8
2 1/2	2.88	2.469	.203	1.50	40	1
3	3.50	3.068	.216	2.00	40	1.7
3 1/2	4.00	3.548	.226	2.50	40	2.3
4	4.50	4.026	.237	2.50	40	2.8
5	5.56	5.047	.258	3.00	40	4.6
6	6.62	6.065	.280	3.50	40	6.9
8	8.62	7.981	.322	4.00	40	11.8
10	10.75	10.02	.365	5.00	40	20.8
12	12.75	12.00	.375	6.00	*	30.3
14	14.00	13.25	.375	6.50	30	36.5
16	16.00	15.25	.375	7.00	30	43.5
18	18.00	17.25	.375	8.00	*	57
20	20.00	19.25	.375	9.00	20	75.7
24	24.00	23.25	.375	10.50	20	101
30	30.00	29.24	.380	10.50	*	137
36	36.00	35.24	.380	10.50	*	175
42	42.00	41.24	.380	12.00	*	229
48	48.00	47.24	.380	13.50	*	350

\* This size and thickness does not correspond to any pipe schedule

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

**Caps**  
**EXTRA STRONG**  
**Inches / Pounds**

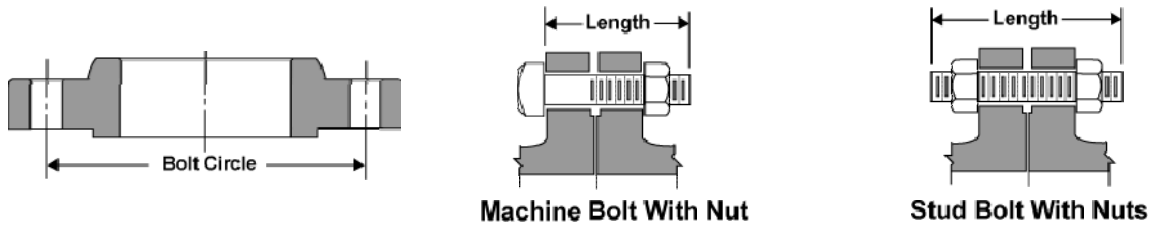


Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Length (E)	Pipe Schedule	Weight in Pounds
1/2	.840	.546	.147	1.00	80	0.1
3/4	1.050	.742	.154	1.25	80	0.16
1	1.315	.957	.179	1.50	80	0.28
1 1/4	1.660	1.278	.191	1.50	80	0.48
1 1/2	1.900	1.500	.200	1.50	80	0.67
2	2.375	1.939	.218	1.50	80	0.92
2 1/2	2.875	2.323	.276	1.50	80	1.3
3	3.500	2.900	.300	2.00	80	2.1
3 1/2	4.000	3.364	.318	2.50	80	3
4	4.500	3.826	.337	2.50	80	3.5
5	5.563	4.813	.375	3.00	80	5.8
6	6.625	5.761	.432	3.50	80	9.3
8	8.625	7.625	.500	4.00	80	16
10	10.750	9.750	.500	5.00	60	26
12	12.750	11.750	.500	6.00	*	38
14	14.000	13.000	.500	6.50	*	47
16	16.000	15.000	.500	7.00	40	57
18	18.000	17.000	.500	8.00	*	78
20	20.000	19.000	.500	9.00	30	100
24	24.000	23.000	.500	10.50	*	145
30	30.000	29.000	.500	10.50	20	634
36	36.000	35.000	.500	10.50	20	913
42	42.000	41.000	.500	12.00	*	1,300
48	48.000	47.000	.500	13.50	*	1,675

\* This size and thickness does not correspond to any pipe schedule

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

## Class 150 Steel Pipe Flanges BOLTING PATTERN AND BOLT LENGTHS

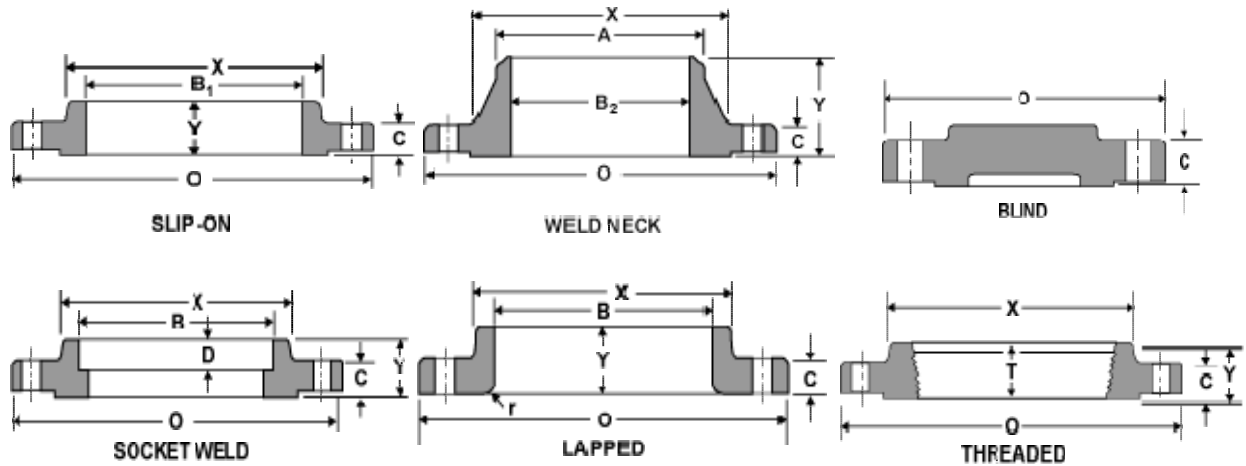


Pipe Size	BOLTING PATTERN AND BOLT LENGTHS					
	Diameter of Bolt Circle	Diameter of Bolt Holes	Number of Bolts	Diameter of Bolts	Machine Bolts	Stud Bolts
					0.006 in Raised Face	0.006 in Raised Face
1/2	2.38	0.62	4	0.50	2.00	2.50
3/4	2.75	0.62	4	0.50	2.25	2.50
1	3.12	0.62	4	0.50	2.25	2.75
1 1/4	3.50	0.62	4	0.50	2.50	2.75
1 1/2	3.88	0.62	4	0.50	2.50	3.0
2	4.75	0.75	4	0.62	2.75	3.25
2 1/2	5.50	0.75	4	0.62	3.00	3.50
3	6.00	0.75	4	0.62	3.25	3.75
3 1/2	7.00	0.75	8	0.62	3.25	3.75
4	7.50	0.75	8	0.62	3.25	3.75
5	8.50	0.88	8	0.75	3.25	4.00
6	9.50	0.88	8	0.75	3.50	4.00
8	11.75	0.88	8	0.75	3.75	4.25
10	14.25	1.00	12	0.88	4.25	4.75
12	17.00	1.00	12	0.88	4.25	4.75
14	18.75	1.12	12	1.00	4.50	5.25
16	21.25	1.12	16	1.00	4.75	5.50
18	22.75	1.25	16	1.12	5.00	6.00
20	25.00	1.25	20	1.12	5.50	6.25
24	29.50	1.38	20	1.25	6.00	7.00
30	36.00	1.38	28	1.25		
36	42.75	1.62	32	1.50		
42	49.50	1.62	36	1.50		
48	56.00	1.62	44	1.50		

Conforms to ASTM A 105; ANSI B16.5

# Class 150 Steel Pipe Flanges

## DIMENSIONAL SPECIFICATION



Pipe Size	O	C	X	A	Y	Y	Y	T	B1	B	B2	r	D
	Outside Diameter of Flange	* Thickness of Flange, Minimum	** Diameter of Hub	Diameter of Weld neck	Threaded Slip-On	Lap-Joint	Weld Neck	Thread Length Threaded Flange, Minimum	Slip-On, Minimum	Lap-Joint, Minimum	Weld neck / Socket weld	Lap-Joint Flange Radius	Depth of Socket
3.50	0.44	1.19	0.84	0.62	0.62	1.88	0.62	1.09	1.11	0.62	0.12	0.38	
3.88	0.50	1.50	1.05	0.62	0.62	2.06	0.62	1.09	1.11	0.82	0.12	0.44	
4.25	0.56	1.94	1.32	0.69	0.69	2.19	0.69	1.36	1.38	1.05	0.12	0.50	
4.62	0.62	2.31	1.66	0.81	0.81	2.25	0.81	1.70	1.72	1.38	0.19	0.56	
5.00	0.69	2.56	1.90	0.88	0.88	2.44	0.88	1.95	1.97	1.61	0.25	0.62	
6.00	0.75	3.06	2.38	1.00	1.00	2.50	1.00	2.44	2.46	2.07	0.31	0.69	
7.00	0.88	3.56	2.88	1.12	1.12	2.75	1.12	2.94	2.97	2.47	0.31	0.75	
7.50	0.94	4.25	3.50	1.19	1.19	2.75	1.19	3.57	3.60	3.07	0.38	0.81	
8.50	0.94	4.81	4.00	1.25	1.25	2.81	1.25	4.07	4.10	3.55	0.38	...	
9.00	0.94	5.31	4.50	1.31	1.31	3.00	1.31	4.57	4.60	4.03	0.44	...	
10.00	0.94	6.44	5.56	1.44	1.44	3.50	1.44	5.66	5.69	5.05	0.44	...	
11.00	1.00	7.56	6.63	1.56	1.56	3.50	1.56	6.72	6.75	6.07	0.50	...	
13.50	1.12	9.69	8.63	1.75	1.75	4.00	1.75	8.72	8.75	7.98	0.50	...	
16.00	1.19	12.00	10.75	1.94	1.94	4.00	1.94	10.88	10.92	10.02	0.50	...	
19.00	1.25	14.38	12.75	2.19	2.19	4.50	2.19	12.88	12.92	12.00	0.50	...	
21.00	1.38	15.75	14.00	2.25	3.12	5.00	2.25	14.14	14.18	13.25	0.50	...	
23.50	1.44	18.00	16.00	2.50	3.44	5.00	2.50	16.16	16.19	15.25	0.50	...	
25.00	1.56	19.88	18.00	2.69	3.81	5.50	2.69	18.18	18.20	17.25	0.50	...	
27.50	1.69	22.00	20.00	2.88	4.06	5.69	2.88	20.20	20.25	19.25	0.50	...	
32.00	1.88	26.12	24.00	3.25	4.38	6.00	3.25	24.25	24.25	23.25	0.50	...	

### Class 150 Series A The flanges below, from 30" - 48", conform to ASME B16.47

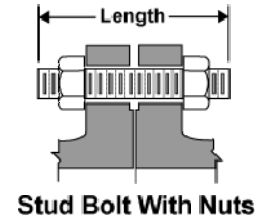
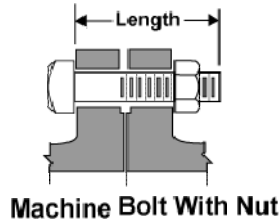
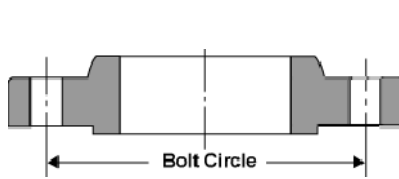
Nominal Pipe Size	Outside Diameter of Flange	Minimum Thickness Of Flange		Length Through Hub	Diameter of Hub	Hub Diameter Top	Raised Face Diameter	Minimum Fillet Radius r1
		Weldneck	Blind					
30	38.75	2.94	2.94	5.38	30.75	30.00	33.75	0.44
36	46.00	3.56	3.56	6.19	36.75	36.00	40.25	0.50
42	53.00	3.81	3.81	6.75	43.00	42.00	47.00	0.50
48	59.50	4.25	4.25	7.56	49.12	48.00	53.50	0.50

\* Should flanges be required with flat face, shipments may be either the full thickness, or a thickness with raised face removed. (Removal of the raised face produces a non-standard length through the hub.)

\*\* A taper shall not exceed 7 degrees on threaded, slip-on, and lap-joint flanges.

# Class 300 Steel Pipe Flanges

## BOLTING PATTERN AND BOLT LENGTHS



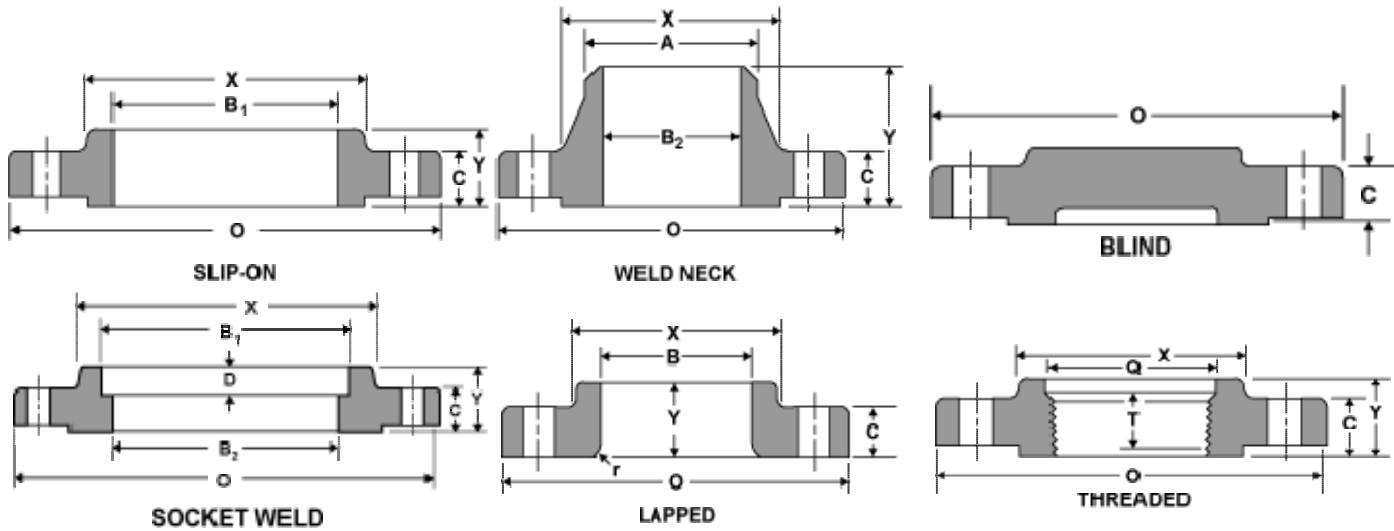
Pipe Size	BOLTING PATTERN AND BOLT LENGTHS					
	Diameter of Bolt Circle	Diameter of Bolt Holes	Number of Bolts	Diameter of Bolts	Machine Bolts	Stud Bolts
					0.006 in Raised Face	0.006 in Raised Face
1/2	2.62	0.62	4	0.50	2.25	2.75
3/4	3.25	0.75	4	0.62	2.50	3.00
1	3.50	0.75	4	0.62	2.75	3.25
1 1/4	3.88	0.75	4	0.62	2.75	3.25
1 1/2	4.50	0.88	4	0.75	3.00	3.75
2	5.00	0.75	8	0.62	3.00	3.50
2 1/2	5.88	0.88	8	0.75	3.50	4.00
3	6.62	0.88	8	0.75	3.75	4.25
3 1/2	7.25	0.88	8	0.75	3.75	4.50
4	7.88	0.88	8	0.75	4.00	4.50
5	9.25	0.88	8	0.75	4.25	4.75
6	10.62	0.88	12	0.75	4.25	5.00
8	13.00	1.00	12	0.88	4.75	5.50
10	15.25	1.12	16	1.00	5.50	6.25
12	17.75	1.25	16	1.12	6.00	6.75
14	20.25	1.25	20	1.12	6.25	7.00
16	22.50	1.38	20	1.25	6.50	7.50
18	24.75	1.38	24	1.25	6.75	7.75
20	27.00	1.38	24	1.25	7.25	8.25
24	32.00	1.62	24	1.50	8.00	9.25
30	39.25	1.88	28	1.75		
36	46.00	2.12	32	2.00		
42	47.50	1.75	32	1.62		
48	54.00	2.00	32	1.88		

Conforms to ASTM A 105; ANSI B16.5



# Class 300 Steel Pipe Flanges

## DIMENSIONAL SPECIFICATIONS



Pipe Size	O	C	X	A	Y	Y	Y	T	B1	B	B2	r	Q
	Outside Diameter of Flange	Thickness of Flange, Minimum	** Diameter of Hub	Diameter of Weld Neck	Threaded Slip-On	Lap-Joint	Weld Neck	Thread Length Threaded Flange, Minimum	Slip-On, Minimum	Lap-Joint, Minimum	Weld Neck / Socket Weld	Lap-Joint Flange Radius	Counter-bore Threaded Flange, Minimum
1/2	3.75	0.56	1.50	0.84	0.88	0.88	2.06	0.62	0.88	0.90	0.62	0.12	0.91
3/4	4.62	0.62	1.88	1.05	1.00	1.00	2.25	0.62	1.09	1.11	0.82	0.12	1.14
1	4.88	0.69	2.12	1.32	1.06	1.06	2.44	0.69	1.36	1.38	1.05	0.12	1.41
1 1/4	5.25	0.75	2.50	1.66	1.06	1.06	2.56	0.81	1.70	1.72	1.38	0.19	1.75
1 1/2	6.12	0.81	2.75	1.90	1.19	1.19	2.69	0.88	1.95	1.97	1.61	0.25	1.99
2	6.50	0.88	3.31	2.38	1.31	1.31	2.75	1.12	2.44	2.46	2.07	0.31	2.50
2 1/2	7.50	1.00	3.94	2.88	1.50	1.50	3.00	1.25	2.94	2.97	2.47	0.31	3.00
3	8.25	1.12	4.62	3.50	1.69	1.69	3.12	1.25	3.57	3.60	3.07	0.38	3.63
3 1/2	9.00	1.19	5.25	4.00	1.75	1.75	3.19	1.44	4.07	4.10	3.55	0.38	4.13
4	10.00	1.25	5.75	4.50	1.88	1.88	3.38	1.44	4.57	4.60	4.03	0.44	4.63
5	11.00	1.38	7.00	5.56	2.00	2.00	3.88	1.69	5.66	5.69	5.05	0.44	5.69
6	12.50	1.44	8.12	6.63	2.06	2.06	3.88	1.81	6.72	6.75	6.07	0.50	6.75
8	15.00	1.62	10.25	8.63	2.44	2.44	4.38	2.00	8.72	8.75	7.98	0.50	8.75
10	17.50	1.88	12.62	10.75	2.62	3.75	4.62	2.19	10.88	10.92	10.02	0.50	10.88
12	20.50	2.00	14.75	12.75	2.88	4.00	5.12	2.38	12.88	12.92	12.00	0.50	12.94
14	23.00	2.12	16.75	14.00	3.00	4.38	5.62	2.50	14.14	14.18	13.25	0.50	14.19
16	25.50	2.25	19.00	16.00	3.25	4.75	5.75	2.69	16.16	16.19	15.25	0.50	16.19
18	28.00	2.38	21.00	18.00	3.50	5.12	6.25	2.75	18.18	18.20	17.25	0.50	18.19
20	30.50	2.50	23.12	20.00	3.75	5.50	6.38	2.88	20.20	20.25	19.25	0.50	20.19
24	36.00	2.75	27.62	24.00	4.19	6.00	6.62	3.25	24.25	24.25	23.25	0.50	24.19

**Class 300 Series A The flanges below from 30" - 48" conform to ASTM B16.47**

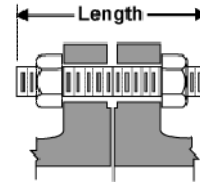
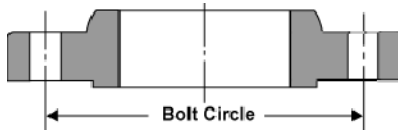
Nominal Pipe Size	Outside Diameter of Flange	Minimum Thickness Of Flange		Length Through Hub	Diameter of Hub	Hub Diameter Top	Raised Face Diameter	Minimum Fillet Radius r1
		Weld Neck	Blind					
30	43.00	3.62	3.75	8.25	32.56	30.00	33.75	0.44
36	50.00	4.12	4.38	9.50	39.00	36.00	40.25	0.50
42	50.75	4.69	4.69	7.88	43.25	42.00	44.75	0.50
48	57.75	5.25	5.25	8.81	49.38	48.00	51.25	0.50

\* Should flanges be required with flat face, shipments may be either the full thickness, or a thickness with raised face removed. (Removal of the raised face produces a non-standard length through the hub.)

\*\* A taper shall not exceed 7 degrees on threaded, slip-on, and lap-joint flanges

# Class 600 Steel Pipe Flanges

## BOLTING PATTERNS & BOLT LENGTHS

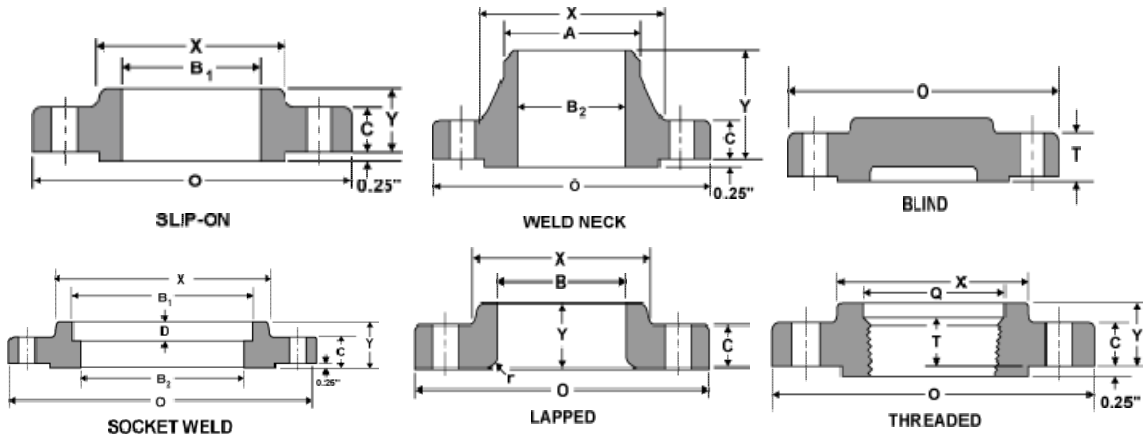


Stud Bolt With Nuts

Pipe Size	BOLTING PATTERN AND BOLT LENGTHS				
	Diameter of Bolt Circle	Diameter of Bolt Holes	Number of Bolts	Diameter of Bolts	Stud Bolts 0.25 in Raised Face
1/2	2.62	0.62	4	0.50	3.25
3/4	3.25	0.75	4	0.62	3.50
1	3.50	0.75	4	0.62	3.75
1 1/4	3.88	0.75	4	0.62	4.00
1 1/2	4.50	0.88	4	0.75	4.25
2	5.00	0.75	8	0.62	4.25
2 1/2	5.88	0.88	8	0.75	4.75
3	6.62	0.88	8	0.75	5.00
3 1/2	7.25	1.00	8	0.88	5.50
4	8.50	1.00	8	0.88	5.75
5	10.50	1.12	8	1.00	6.50
6	11.50	1.12	12	1.00	6.75
8	13.75	1.25	12	1.12	7.75
10	17.00	1.38	16	1.25	8.50
12	19.25	1.38	20	1.25	8.75
14	20.75	1.50	20	1.38	9.25
16	23.75	1.62	20	1.50	10.00
18	25.75	1.75	20	1.62	10.75
20	28.50	1.75	24	1.62	11.50
24	33.00	2.00	24	1.88	13.00
30	40.25	2.12	28	2.00	
36	47.00	2.62	28	2.50	
42	50.50	2.62	28	2.50	
48	57.50	2.88	32	2.75	

Conforms to ASTM A 105; ANSI B16.5

# Class 600 Steel Pipe Flanges DIMENSIONAL SPECIFICATIONS



Pipe Size	O	C	X	A	Y	Y	Y	T	B1	B	B2	r	Q
	Outside Diameter of Flange	Thickness of Flange, Minimum	** Diameter of Hub	Diameter of Weld Neck	Threaded Slip-On	Lap-Joint	Weld Neck	Thread Length Threaded Flange, Minimum	Slip-On, Minimum	Lap-Joint, Minimum	Weld Neck / Socket Weld	Lap-Joint Flange Radius	Counter-bore Threaded Flange, Minimum
1/2	3.75	0.56	1.50	0.84	0.88	0.88	2.06	0.62	0.88	0.90	.546	0.12	0.93
3/4	4.62	0.62	1.88	1.05	1.00	1.00	2.25	0.62	1.09	1.11	.742	0.12	1.14
1	4.88	0.69	2.12	1.32	1.06	1.06	2.44	0.69	1.36	1.38	.957	0.12	1.41
1 1/4	5.25	0.81	2.50	1.66	1.12	1.12	2.62	0.81	1.70	1.72	1.28	0.19	1.75
1 1/2	6.12	0.88	2.75	1.90	1.25	1.25	2.75	0.88	1.95	1.97	1.50	0.25	1.99
2	6.50	1.00	3.31	2.38	1.44	1.44	2.88	1.12	2.44	2.46	1.94	0.31	2.50
2 1/2	7.50	1.12	3.94	2.88	1.62	1.62	3.12	1.25	2.94	2.97	2.32	0.31	3.00
3	8.25	1.25	4.62	3.50	1.81	1.81	3.25	1.38	3.57	3.60	2.90	0.38	3.63
3 1/2	9.00	1.38	5.25	4.00	1.94	1.94	3.38	1.56	4.07	4.10	3.36	0.38	4.13
4	10.75	1.50	6.00	4.50	2.12	2.12	4.00	1.62	4.57	4.60	3.83	0.44	4.63
5	13.00	1.75	7.44	5.56	2.38	2.38	4.50	1.88	5.66	5.69	4.81	0.44	5.69
6	14.00	1.88	8.75	6.63	2.62	2.62	4.62	2.00	6.72	6.75	5.76	0.50	6.75
8	16.50	2.19	10.75	8.63	3.00	3.00	5.25	2.25	8.72	8.75	7.63	0.50	8.75
10	20.00	2.50	13.50	10.75	3.38	4.38	6.00	2.56	10.88	10.92	9.75	0.50	10.88
12	22.00	2.62	15.75	12.75	3.62	4.62	6.12	2.75	12.88	12.92	11.75	0.50	12.94
14	23.75	2.75	17.00	14.00	3.69	5.00	6.50	2.88	14.14	14.18	13.00	0.50	14.19
16	27.00	3.00	19.50	16.00	4.19	5.50	7.00	3.06	16.16	16.19	15.00	0.50	16.19
18	29.25	3.25	21.50	18.00	4.62	6.00	7.25	3.12	18.18	18.20	17.00	0.50	18.19
20	32.00	3.50	24.00	20.00	5.00	6.50	7.50	3.25	20.20	20.25	19.00	0.50	20.19
24	37.00	4.00	28.25	24.00	5.50	7.25	8.00	3.62	24.25	24.25	23.00	0.50	24.19

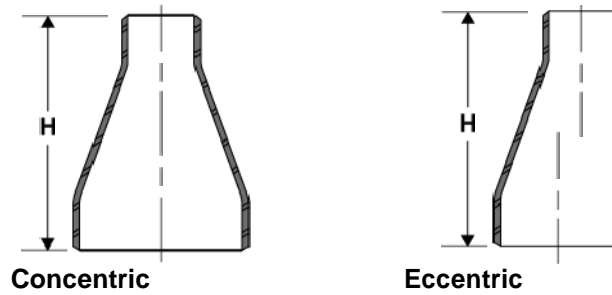
**Class 600 Series A** The flanges below from 30" - 48" conform to ASTM B16.47

Nominal Pipe Size	Outside Diameter of Flange	Minimum Thickness Of Flange		Length Through Hub	Diameter of Hub	Hub Diameter Top	Raised Face Diameter	Minimum Fillet Radius r1
		Weld Neck	Blind					
30	44.50	4.50	5.50	9.75	33.94	30.00	33.75	0.50
36	51.75	4.88	6.38	11.12	40.62	36.00	40.25	0.56
42	55.25	6.62	6.75	11.00	44.38	42.00	46.00	0.56
48	62.75	7.44	7.69	12.44	50.75	48.00	52.50	0.56

\* Should flanges be required with flat face, shipments may be either the full thickness, or a thickness with raised face removed. (Removal of the raised face produces a non-standard length through the hub.)

\*\* A taper shall not exceed 7 degrees on threaded, slip-on, and lap-joint flanges.

## Concentric & Eccentric Reducers STANDARD WEIGHT



Nominal Pipe Size	Length (H)	Weight in Pounds
1 1/4 x 1/2	2	0.42
1 x 3/4	2	0.36
1 x 1/2	2	0.36
3/4 x 1 1/2	1	0.21
1 1/2 x 1 1/4	2.5	0.65
1 1/2 x 1	2.5	0.57
1 1/2 x 3/4	2.5	0.56
1 1/2 x 1/2	2.5	0.56
1 1/4 x 1	2	0.48
1 1/4 x 3/4	2	0.42
1 1/4 x 1/2	2	0.42
2 1/2 x 2	3.5	1.6
2 1/2 x 1 1/2	3.5	1.5
2 1/2 x 1 1/4	3.5	1.4
2 1/2 x 1	3.5	1.3
2 x 1 1/2	3	0.94
2 x 1 1/4	3	0.88
2 x 1	3	0.81
2 x 3/4	3	0.74
3 1/2 x 3	4	2.8
3 1/2 x 2 1/2	4	2.7
3 1/2 x 2	4	2.6
3 1/2 x 1 1/2	4	2.6
3 1/2 x 1 1/4	4	2.5
3 x 2 1/2	3.5	2.2
3 x 2	3.5	2.0
3 x 1 1/2	3.5	1.9
3 x 1 1/4	3.5	1.8
3 x 1	3.5	1.7
4 x 3 1/2	4	3.5
4 x 3	4	3.3
4 x 2 1/2	4	3.2
4 x 2	4	3.1
4 x 1 1/2	4	3
4 x 1 1/4	4	3
4 x 1	4	2.8
5 x 4	5	5.5
5 x 3 1/2	5	5.3
5 x 3	5	5.1
5 x 2 1/2	5	4.8
5 x 2	5	4.7

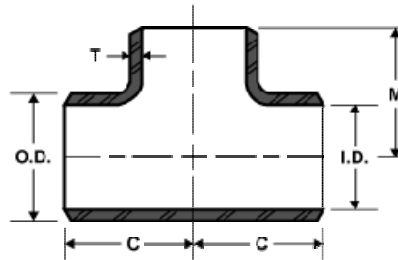
\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Straight Tees

## STANDARD WEIGHT

### Inches / Pounds



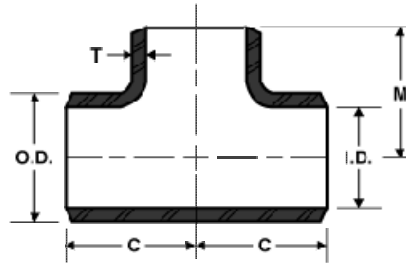
Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To End (C)	Center To End (M)	Pipe Schedule	Weight in Pounds
1/2	.84	.622	.109	1.00	1.00	40	.35
3/4	1.05	.824	.113	1.12	1.12	40	.50
1	1.32	1.049	.133	1.50	1.50	40	.75
1 1/4	1.66	1.380	.140	1.88	1.88	40	1.3
1 1/2	1.90	1.610	.145	2.25	2.25	40	1.9
2	2.38	2.067	.154	2.50	2.50	40	3.2
2 1/2	2.88	2.469	.203	3.00	3.00	40	5.8
3	3.50	3.068	.216	3.38	3.38	40	7.2
3 1/2	4.00	3.548	.226	3.75	3.75	40	9.5
4	4.50	4.026	.237	4.12	4.12	40	12.7
5	5.56	5.047	.258	4.88	4.88	40	20.8
6	6.62	6.065	.280	5.62	5.62	40	33.1
8	8.62	7.981	.322	7.00	7.00	40	56.5
10	10.75	10.020	.365	8.50	8.50	40	90.9
12	12.75	12.000	.375	10.00	10.00	*	136
14	14.00	13.250	.375	11.00	11.00	30	162
16	16.00	15.250	.375	12.00	12.00	30	206
18	18.00	17.250	.375	13.50	13.50	*	272
20	20.00	19.250	.375	15.00	15.00	20	350
24	24.00	23.250	.375	17.00	17.00	20	508
30	30.00	29.240	.380	22.00	22.00	*	835
36	36.00	35.240	.380	26.50	26.50	*	1,294
42	42.00	41.240	.380	30.00	28.00	*	1,495
48	48.00	47.240	.380	35.00	33.00	*	2,300

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B

# Straight Tees

EXTRA STRONG  
Inches / Pounds



Nominal Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness (T)	Center To End (C)	Center To End (M)	Pipe Schedule	Weight In Pounds
1/2	.840	.546	.147	1.00	1.00	80	.37
3/4	1.050	.742	.154	1.12	1.12	80	.58
1	1.315	.957	.179	1.50	1.50	80	.87
1 1/4	1.660	1.278	.191	1.88	1.88	80	1.6
1 1/2	1.900	1.500	.200	2.25	2.25	80	2.3
2	2.375	1.939	.218	2.50	2.50	80	3.9
2 1/2	2.875	2.323	.276	3.00	3.00	80	6.5
3	3.500	2.900	.300	3.38	3.38	80	9
3 1/2	4.000	3.364	.318	3.75	3.75	80	12.2
4	4.500	3.826	.337	4.12	4.12	80	16.2
5	5.563	4.813	.375	4.88	4.88	80	26.6
6	6.625	5.761	.432	5.62	5.62	80	41.8
8	8.625	7.625	.500	7.00	7.00	80	76.2
10	10.75	9.750	.500	8.50	8.50	60	115
12	12.75	11.75	.500	10.00	10.00	*	169
14	14.00	13.00	.500	11.00	11.00	*	237
16	16.00	15.00	.500	12.00	12.00	40	284
18	18.00	17.00	.500	13.50	13.50	*	353
20	20.00	19.00	.500	15.00	15.00	30	442
24	24.00	23.00	.500	17.00	17.00	*	625
30	30.00	29.00	.500	22.00	22.00	*	1,065
36	36.00	35.00	.500	26.50	26.50	*	1,610
42	42.00	41.00	.500	30.00	28.00	*	1,788
48	48.00	47.00	.500	35.00	33.00	*	2,300

\* This Size and thickness does not correspond to any pipe schedule number.

Dimensions conform to ASME B16.9 & material conforms to ASTM A-234 Grade B



150# RAISED FACE S/O FLANGE.....	8	ANGLE STAINLESS 20' T-304.....	2
150# RAISED FACE S/W FLANGE.....	8	AR PLATE.....	18
150# RAISED FACE W/N FLANGE.....	8	AR SHEET A-2352.....	26
150# RAISED FACE W/N FLANGE XH.....	10	ARCHITECTURAL ANGLES ALUMINUM 16.....	1
1500# RAISED FACE W/N FLANGE XST.....	10	ARCHITECTURAL, ALUMINUM, CHANNEL.....	5
180° RETURN BENDS-LR STD BW.....	9	AWNING TRIM, ALUMINUM.....	5
180° RETURN BENDS-LR XST BW.....	9	BAR CHANNEL A-36 20'.....	5
180° RETURN BENDS-SR STD BW.....	9	BAR GRATING 19-W4.....	2
180° RETURN BENDS-SR XST BW.....	9	BAR GRATING CLIPS.....	2
300# RAISED FACE S/O FLANGE.....	8	BAR GRATING GALVANIZED.....	3
300# RAISED FACE W/N FLANGE.....	9	BAR GRATING SERRATED.....	3
3000# SOCKET WELD 90° ELBOWS.....	9	BAR GRATING SERRATED ALUMINUM.....	2
3000# SOCKET WELD COUPLINGS.....	9	BAR GRATING SERRATED UNPAINTED.....	2
45° ELBOWS-EXTRA STRONG BW.....	7	BASE ANGLE - PRIMED.....	5
45° ELBOWS-STANDARD BW.....	7	BEAM, H, GALVANIZED.....	4
600# RAISED FACE S/O FLANGE.....	9	BEAM, I, 20'.....	3
600# RAISED FACE S/W FLANGE.....	9	BEAM, I, 20'/40'.....	3
600# RAISED FACE W/N FLANGE.....	9	BEAM, I, GALVANIZED.....	4
90° ELBOWS-LONG RADIUS STD BW.....	8	BEAM, JR, 20'.....	3
90° ELBOWS-LONG RADIUS XST BW.....	8	BEAM, WF 20'/40'.....	3
90° ELBOWS-SHORT RADIUS STD BW.....	8	BLACK PIPE SCH120/SEAMLESS R/L.....	16
90° ELBOWS-SHORT RADIUS XST BW.....	8	BLACK PIPE SCH160/SEAMLESS A-106/A-53B R/L.....	16
ALL THREAD, GALVANIZED 10'.....	15	BLACK PIPE SCH20 A-53B 21'.....	15
ALLOY ROUND TUBING HR 4142.....	32	BLACK PIPE SCH40 A-53B 21 *DOMESTIC*.....	16
ALLOY, PLATE STEEL.....	19	BLACK PIPE SCH40 A-53B 21'.....	15
ALUMINUM ANGLE 6061-TB 25'.....	1	BLACK PIPE SCH40/SEAMLESS A-106/A-53B R/L.....	16
ALUMINUM ARCH. ANGLE 6061-TB 16'.....	1	BLACK PIPE SCH80 A-53B 21 *DOMESTIC*.....	15
ALUMINUM ARCHITECTURAL CHANNEL.....	5	BLACK PIPE SCH80 A-53B 21'.....	15
ALUMINUM AWNING TRIM.....	5	BLACK PIPE SCH80/SEAMLESS A-106/A-53B R/L.....	16
ALUMINUM BRONZE ROUND TUBING.....	32	BLACK PIPE T & C A-53B 21'.....	16
ALUMINUM CHANNEL 6061-T6 25'.....	5	BLADE STEEL.....	14
ALUMINUM EXPANDED METAL 5005 H-34.....	6	BLADES, GRADER.....	14
ALUMINUM FLAT 6061-T6 12'.....	11	BLUE PIPE SCH80/SEAMLESS R/L.....	16
ALUMINUM FLAT METAL.....	6	BRONZE GLOBE VALVES MILWAUKEE.....	38
ALUMINUM FLOOR PLATE 3003-T6 DIAMOND PLATE.....	18	BUILDING MATERIALS, CONCRETE, CHAIRS.....	4
ALUMINUM FLOOR PLATE 6061-T6 DIAMOND PLATE.....	18	BUILDING MATERIALS, CONCRETE, REBAR.....	4
ALUMINUM GRIP STRUT.....	13	BUILDING MATERIALS, CONCRETE, REBAR HIGH-CHAIRS.....	4
ALUMINUM HC PERFORATED SHEET.....	26	BUILDING MATERIALS, CONCRETE, REMESH ROLLS.....	4
ALUMINUM I BEAM 6061-T6.....	3	BUILDING MATERIALS, CONCRETE, TWISTERS.....	4
ALUMINUM I-BAR GRATING.....	2	BUILDING MATERIALS, CONCRETE, TYWIRE.....	4
ALUMINUM LADDER RUNGS .125 5'.....	14	BUILDING MATERIALS, CONCRETE, WELDABLE REBAR..	5
ALUMINUM O.D. PIPE 6061-T6 24'.....	15	BUILDING MATERIALS, CONCRETE, WIRE TIES.....	4
ALUMINUM PIPE SCH40 6061-T6.....	15	BUILDING MATERIALS, GENERAL, PRIMED ROOF DECKING-GALVANIZED.....	5
ALUMINUM PIPE SCH80.....	15	BUILDING MATERIALS, GENERAL, ROOF DECK.....	5
ALUMINUM PIPE SCH80 6061-T6.....	15	BUILDING MATERIALS, METAL BUILDINGS, ALUMINUM AWNING TRIM.....	5
ALUMINUM PLATE (DIAMOND PLATE).....	18	BUILDING MATERIALS, METAL BUILDINGS, BASE ANGLES-PRIMED.....	5
ALUMINUM PLATE 5052 H-32.....	18	BUILDING MATERIALS, METAL BUILDINGS, CEE PURLINS-PRIMED.....	5
ALUMINUM PLATE 6061-T6.....	18	BUILDING MATERIALS, METAL BUILDINGS, PURLIN CLIPS.....	5
ALUMINUM RECT. TUBING.....	30	BUILDING MATERIALS, METAL BUILDINGS, ZEE PURLINS-PRIMED.....	5
ALUMINUM ROUND 12'.....	22	BUTTERFLY VALVES CAST IRON HP.....	37
ALUMINUM ROUND TUBING.....	32	CAPS-EXTRA STRONG BW.....	10
ALUMINUM SERRATED BAR GRATING.....	2	CAPS-STANDARD WEIGHT BW.....	9
ALUMINUM SHEET.....	26	CARBON STEEL CONTINUOUS HINGES.....	14
ALUMINUM SHEET-EMBOSSED.....	26	CARBON STEEL ROUND TUBING A-513 20'.....	32
ALUMINUM SQ. TUBING 21'.....	34	CARBON STEEL, CHANNEL, BAR.....	5
ALUMINUM SQUARE.....	29	CARBON STEEL, CR FLAT 42'.....	11
ALUMINUM STRIP 6061-T6 12'.....	29	CARBON STEEL, EXPANDED METAL.....	6
ANCHOR BOLTS.....	4		
ANGLE A-36 20'/40'.....	1		
ANGLE ALUMINUM 25'.....	1		
ANGLE ARCHITECTURAL ALUMINUM 16'.....	1		
ANGLE IMPORT 20'.....	1		
ANGLE PRIMED 20'.....	2		

CARBON STEEL, FLOOR PLATE (DIAMOND PLATE).....	19	EXPANDED METAL, STAINLESS.....	7
CARBON STEEL, GALVANIZED BAR CHANNEL.....	6	FABRICATED ITEMS.....	39
CARBON STEEL, GALVANIZED CHANNEL 20'.....	6	FASTENERS.....	5
CARBON STEEL, GRADER BLADES.....	14	FATIGUE PROOF 12' R/L.....	24
CARBON STEEL, JR CHANNELS.....	6	FLANGE, 150# RAISED FACE SO.....	8
CARBON STEEL, LADDER RUNGS 13 GA BLK 5'.....	14	FLANGE, 150# RAISED FACE SW.....	8
CARBON STEEL, MC CHANNELS 20'/40'.....	6	FLANGE, 150# RAISED FACE WN.....	8
CARBON STEEL, TEES 20'.....	30	FLANGE, 300# RAISED FACE SO.....	8
CAST IRON GATE VALVES MILWAUKEE.....	37	FLANGE, 300# RAISED FACE WN.....	9
CEE PURLINS - PRIMED.....	5	FLANGE, 600# RAISED FACE SO.....	9
CHAIRS.....	4	FLANGE, 600# RAISED FACE SW.....	9
CHANNEL, ALUMINUM ARCHITECTURAL.....	5	FLANGE, 600# RAISED FACE WN.....	9
CHANNEL, BAR.....	5	FLAT BAR, ALUMINUM FLAT 6061-T6 12'.....	11
CHANNEL, GALVANIZED 20'.....	6	FLAT BAR, GALVANIZED FLAT.....	13
CHANNELS 20'/40', JR.....	6	FLAT METAL.....	7
CHANNELS 20'/40', MC.....	6	FLAT METAL, ALUMINUM.....	6
CHECK VALVES HAMMOND-THREADED.....	37	FLAT METAL, CARBON STEEL.....	7
CHEMICAL RESISTANCE GUIDE.....	46	FLAT METAL, GALVANIZED.....	7
CHROME PLATED ONLY RND 1045.....	23	FLAT METAL, STAINLESS T-304.....	7
CHROME PLATED ROUND-1045-IHC.....	22	FLAT, ALUMINUM.....	6
CLIPS, BAR GRATING.....	2	FLAT, CR 42'.....	11
CLIPS, PURLIN.....	5	FLAT, GALVANIZED.....	7
CONCENTRIC STANDARD REDUCERS.....	10	FLAT, STAINLESS T-304 12'.....	7
CONCRETE, BUILDING MATERIALS, REBAR.....	4	FLOOR PLATE (DIAMOND PLATE).....	19
CONCRETE, BUILDING MATERIALS, REBAR HIGH-CHAIRS.....	4	FLOOR PLATE, ALUMINUM 3003-T6 (DIAMOND PLATE). 18	
CONCRETE, BUILDING MATERIALS, REMESH ROLLS....	4	FLOOR PLATE, ALUMINUM 6061-T6 (DIAMOND PLATE). 18	
CONCRETE, BUILDING MATERIALS, TWISTERS.....	4	FLOOR PLATE, CARBON STEEL (DIAMOND PLATE).....	19
CONCRETE, BUILDING MATERIALS, TYWIRE.....	4	GALV PERF.TELESOPIC TUBING.....	36
CONCRETE, BUILDING MATERIALS, WELDABLE REBAR..	5	GALVANIZED ALL THREAD 10'.....	15
CONTINUOUS HINGES.....	14	GALVANIZED ANGLE A-36 20'.....	2
CONTINUOUS HINGES, STAINLESS.....	15	GALVANIZED BAR CHANNEL A-36 20'.....	6
COPPER SHEET.....	27	GALVANIZED BAR GRATING 19-W4.....	3
COPPER SHEET 110 ALLOY.....	27	GALVANIZED CHANNEL A-36 20'.....	6
COR-TEN ANGLE.....	2	GALVANIZED EXPANDED METAL.....	7
COR-TEN SHEET A606-TYPE-4.....	26	GALVANIZED FLAT 20'.....	13
CR FLAT 12' R/L.....	11	GALVANIZED FLAT METAL.....	7
CR ROUND 1045 PSQ.....	23	GALVANIZED GRIP STRUT.....	14
CR ROUND 1144SR 12' R/L.....	23	GALVANIZED H BEAM 20'.....	4
CR ROUND 1144SR DTGP 12' R/L.....	23	GALVANIZED I BEAM 20'.....	4
CR ROUND 1215 12'.....	23	GALVANIZED PIPE PE A-53 21'.....	16
CR ROUND 12L14 12'.....	23	GALVANIZED PIPE T & C A-53 21'.....	17
CR ROUND 4140 T G & P.....	22	GALVANIZED ROUND A-36 20'.....	24
CR ROUND 8620.....	24	GALVANIZED ROUND TUBING.....	33
CR ROUND C1018.....	24	GALVANIZED SERRATED GRATING 19-W-4.....	14
CR ROUND C1045.....	24	GALVANIZED SHEET A-653.....	27
CR ROUND C1045 T & P R/L.....	23	GALVANIZED SQUARE TUBING 20'.....	36
CR ROUND C1045 T G & P.....	23	GALVANIZED WALKWAY GRIP STRUT.....	14
CR SHEET A-36.....	26	GATE VALVES.....	37
CR SQUARE 4140 HEAT TREATED.....	29	GLOBE VALVES.....	38
CR SQUARE 4140 HEAT TREATED 12'.....	29	GRADER BLADES.....	14
CR STRIP C1018 12' R/L.....	29	GRATE-X.....	7
DIAMOND PLATE ALUMINUM FLOOR PLATE.....	18	GRATING, GALVANIZED SERRATED.....	14
DIAMOND PLATE CARBON STEEL FLOOR PLATE.....	19	GRIP STRUT 10'.....	14
DIMENSIONAL SPECIFICATIONS.....	52	GRIP STRUT 10', CARBON STEEL.....	14
ELBOW, 45ø STD BW.....	7	GRIP STRUT, GALVANIZED.....	14
ELBOW, 45ø XST BW.....	7	GRIP STRUT, GALVANIZED WALKWAY.....	14
ELBOW, 90ø LONG RADIUS STD BW.....	8	H BEAM, GALVANIZED 20'.....	4
ELBOW, 90ø LONG RADIUS XST BW.....	8	HEXBAR C1018 12'.....	14
ELBOW, 90ø SHORT RADIUS STD BW.....	8	HEXBAR, STRESS PROOF.....	14
ELBOW, 90ø SHORT RADIUS XST BW.....	8	HINGES, CONTINUOUS, CARBON STEEL.....	14
EXPANDED METAL.....	6	HINGES, CONTINUOUS, STAINLESS.....	15
EXPANDED METAL, ALUMINUM.....	6	HR DOMEX ALLOY STEEL.....	21
EXPANDED METAL, GALVANIZED.....	7	HR FLAT A-36 20'.....	12
		HR ROUND 4140 ANNEALED R/L.....	22

HR ROUND 4140 H/T R/L.....	22	PIPE, UNPAINTED SCH10 21'.....	17
HR ROUND A-36 20'.....	24	PIPE, UNPAINTED SCH40 21'.....	17
HR ROUND CC1045 20' R/L.....	25	PIPE, UNPAINTED SCH80 42'.....	17
HR SHEET.....	26	PLATE STEEL ALLOY.....	19
HR SHEET A-1011 GRADE 33.....	26	PLATE, AR, CARBON STEEL.....	18
HR SQUARE 4140 HEAT TREATED.....	29	PLATE, FLOOR, ALUMINUM (DIAMOND PLATE).....	18
HR SQUARE A-36 20'.....	29	PLATE, STAINLESS.....	22
HR STRIP A-36 20'.....	29	PLATE, STAINLESS T-304 #1.....	22
HYDRAULIC TUBING SEAMLESS.....	33	PLATE, UM 20'.....	13
HYDRAULIC TUBING WELDED.....	34	PLUMBING HEATING VALVES BRBORN.....	37
I BEAM A-36 20'/40'.....	3	PRIMED ANGLE A-36 20'.....	2
I BEAM ALUMINUM 25'.....	3	PRIMED ROOF DECKING-GALVANIZED.....	5
I BEAM CARBON STEEL 20'/40'.....	3	PRIMED ZEE PURLINS.....	5
I BEAM GALVANIZED 20'.....	4	PURLIN CLIPS.....	5
IMPORT UNPAINTED PIPE.....	17	R PANEL - GALVALUME.....	5
IMPORTED RECT. TUBING.....	30	RAISED FACE FLANGE, 150# SO.....	8
IMPORTED SQ TUBING.....	34	RAISED FACE FLANGE, 150# SW.....	8
JR BEAM A-36 20'.....	3	RAISED FACE FLANGE, 150# WN.....	8
JR CHANNEL A-36 20'/40'.....	6	RAISED FACE FLANGE, 300# SO.....	8
KEYSTOCK C1018 12'.....	10	RAISED FACE FLANGE, 300# WN.....	9
LADDER RUNGS .125 (ALUM) 5'.....	14	RAISED FACE FLANGE, 600# SO.....	9
LADDER RUNGS 13GA (BLK) 5'.....	14	RAISED FACE FLANGE, 600# SW.....	9
LADDER RUNGS 14GA STAINLESS 5'.....	14	RAISED FACE FLANGE, 600# WN.....	9
LADDER RUNGS, STAINLESS 14GA 5'.....	14	REBAR.....	4
LIGHT WALL O.D. PIPE.....	17	REBAR HIGH CHAIRS.....	4
MC CHANNEL A-36 20'/40'.....	6	REBAR, WELDABLE.....	5
METAL BUILDINGS, BUILDING MATERIALS, ALUMINUM AWNING TRIM.....	5	RECT. TUBING 20'/40'.....	31
METAL BUILDINGS, BUILDING MATERIALS, CEE PURLINS-PRIMED.....	5	RECTANGULAR, ALUMINUM TUBING.....	30
METAL BUILDINGS, BUILDING MATERIALS, PURLIN CLIPS.....	5	RECTANGULAR, IMPORTED TUBING 20'/40'.....	30
METAL BUILDINGS, BUILDING MATERIALS, ZEE PURLINS-PRIMED.....	5	REDUCER, CONCENTRIC STANDARD.....	10
MILWAUKEE.....	36	REMESH ROLLS.....	4
MILWAUKEE BA SERIES BALL VALVE.....	36	REMESH SHEET.....	4
NW FLANGE, 150# RAISED FACE.....	8	RETURN BEND, 180ø -LR STD BW.....	9
NW FLANGE, 300# RAISED FACE.....	9	RETURN BEND, 180ø -LR XST BW.....	9
NW FLANGE, 600# RAISED FACE.....	9	RETURN BEND, 180ø -SR STD BW.....	9
O.D. PIPE, LIGHTWALL.....	17	RETURN BEND, 180ø -SR XST BW.....	9
PAINT GRIP.....	28	ROOF DECK.....	5
PAINT GRIP, GALVANIZED.....	28	ROOF DECKING, PRIMED, GALVANIZED.....	5
PERFORATED SHEET.....	27	ROUND ALLOY TUBING.....	32
PIPE DIMENSION CHART.....	49	ROUND ALUMINUM TUBING.....	32
PIPE, ALUMINUM SCH40.....	15	ROUND BAR, ALUMINUM 12'.....	22
PIPE, ALUMINUM SCH80.....	15	ROUND BAR, CHROME PLATED 1045 IHC.....	23
PIPE, BLACK T & C A-53B 21'.....	16	ROUND BAR, CR 1045 PSQ.....	23
PIPE, BLACK SEAMLESS SCH160 R/L.....	16	ROUND BAR, CR 1144SR 12' R/L.....	23
PIPE, BLACK SEAMLESS SCH40 R/L.....	16	ROUND BAR, CR 1144SR DTGP 12' R/L.....	23
PIPE, BLACK SEAMLESS SCH80 R/L.....	16	ROUND BAR, CR 12L14.....	23
PIPE, BLACK, SCH40 A-53B 21'.....	15	ROUND BAR, CR 4140 TG&P 20'.....	23
PIPE, BLACK, SCH80 A-53B 21'.....	15	ROUND BAR, CR C1045.....	24
PIPE, BLUE SCH80 SEAMLESS 21'.....	16	ROUND BAR, CR C1045 T&P.....	23
PIPE, DOMESTIC PE 21'.....	16	ROUND BAR, FATIGUE PROOF 12' R/L.....	24
PIPE, GALVANIZED PE 21'.....	16	ROUND BAR, GALVANIZED 20'.....	24
PIPE, GALVANIZED T&C 21'.....	17	ROUND BAR, HR 4140 ANNEALED R/L.....	22
PIPE, LIGHT WALL O.D.....	17	ROUND BAR, HR 4140 H/T R/L.....	22
PIPE, SEAMLESS XH.....	17	ROUND BAR, HR ROUND 20'.....	22
PIPE, SEAMLESS XXH R/L.....	18	ROUND BAR, MM, CR ROUND TG&P.....	22
PIPE, STAINLESS SCH80 T-304 20'.....	18	ROUND BAR, STAINLESS T-303 12'.....	25
PIPE, STAINLESS SCH80 T-316 21'.....	18	ROUND BAR, STAINLESS T-304 12'.....	25
PIPE, STAINLESS T-304 20'.....	18	ROUND BAR, STAINLESS T-316.....	25
PIPE, STAINLESS T-304 SCH10.....	18	ROUND BAR, STAINLESS T-416 PSQ R/L 20'.....	25
PIPE, STAINLESS T-316 SCH40 20'.....	18	ROUND BAR, STRESSPROOF 12' R/L.....	25
		ROUND CR C1045 TG&P.....	23
		ROUND TUBING 20'.....	32
		ROUND TUBING, GALVANIZED.....	33
		ROUND TUBING, SANITARY, STAINLESS T-304L 20'..	34

ROUND TUBING, STAINLESS, SEAMLESS 20'.....	34	STAINLESS SHEET T-304-#3.....	28
ROUND TUBING, STAINLESS, WELDED.....	34	STAINLESS SHEET T-304-#8.....	28
SCH40 DOMESTIC PE 21'.....	16	STAINLESS SHEET T-304-2B.....	28
SEAMLESS PIPE XH R/L 21'/40'.....	17	STAINLESS SHEET T-316-2B.....	28
SEAMLESS PIPE XXH R/L.....	18	STAINLESS SQ TUBING.....	36
SEAMLESS, BLACK PIPE SCH160 R/L.....	16	STAINLESS SQUARE T-304.....	29
SEAMLESS, BLACK PIPE SCH40 R/L.....	16	STAINLESS STRIP T-304 12'.....	30
SEAMLESS, BLACK PIPE SCH80 R/L.....	15	STAINLESS STRIP T-316 12'.....	30
SEAMLESS, BLUE PIPE SCH80 21'.....	16	STAINLESS, FLAT METAL T-304.....	13
SEAMLESS, PIPE XH 21'/42'.....	17	STAINLESS, FLAT METAL T-316.....	13
SEAMLESS, PIPE XXH R/L.....	18	STAINLESS, TUBING, SQUARE 20'.....	35
SERRATED BAR GRATING.....	3	STEEL BALL VALVES 2PC MILWAUKEE.....	36
SERRATED BAR GRATING 19-W4.....	3	STRAIGHT TEES- XST BW.....	10
SERRATED BAR GRATING ALUMINUM.....	2	STRAIGHT TEES-STD BW.....	10
SERRATED BAR GRATING GALVANIZED.....	3	STRAIGHT TEES-XST BW.....	30
SERRATED BAR GRATING UNPAINTED.....	2	STRESS PROOF A-311B 12' R/L.....	25
SHEET, ALUMINUM.....	26	STRESS PROOF G & P 20' R/L.....	26
SHEET, ALUMINUM EMBOSSED.....	26	STRESS PROOF-HEXBAR.....	14
SHEET, AR.....	26	STRIP, ALUMINUM 12'.....	29
SHEET, COPPER.....	27	STRIP, CR, 12' R/L.....	29
SHEET, COR-TEN A606 TYPE 4.....	26	STRIP, HR 20'.....	29
SHEET, CR.....	26	STRIP, STAINLESS T-304 12'.....	30
SHEET, GALVANIZED.....	27	STRIP, STAINLESS T-316 12'.....	30
SHEET, HR.....	26	STRUCTURAL CHANNEL 20'/40'.....	6
SHEET, PERFORATED.....	27	STRUCTURAL CHANNEL A-36 20'/40'.....	6
SHEET, REMESH.....	4	STUDDED ANCHOR BOLTS.....	4
SHEET, STAINLESS T-304-#3.....	28	STUDDED ANCHOR PLATE.....	4
SHEET, STAINLESS T-304-#8.....	28	STUDDED ANCHOR PLATES.....	4
SHEET, STAINLESS T-304-2B.....	28	SW FLANGE, 150# RAISED FACE.....	8
SHEET, STAINLESS T-316-2B.....	28	SW FLANGE, 600# RAISED FACE.....	9
SIMILARITY CHART-BRONZE & IRON VALVES.....	47	T-1 PLATE A-514 321/360.....	21
SMOOTH PLATE.....	19	TEES 20'.....	30
SO FLANGE, 150# RAISED FACE.....	8	TENSILFORM DECK.....	5
SO FLANGE, 300# RAISED FACE.....	8	TUBING, ALLOY ROUND.....	32
SO FLANGE, 600# RAISED FACE.....	9	TUBING, ALUMINUM RECTANGULAR.....	30
SOCKET WELD COUPLING, 3000#.....	9	TUBING, ALUMINUM ROUND.....	30
SOCKET WELD ELBOW, 90°, 3000#.....	9	TUBING, IMPORTED RECTANGULAR 20'/40'.....	30
SQUARE BAR, CR, 4140 HEAT TREATED 12'.....	29	TUBING, RECTANGULAR 20'/40'.....	31
SQUARE BAR, CR, C1018 12'.....	10	TUBING, ROUND 20'.....	32
SQUARE TUBING.....	35	TUBING, ROUND ALLOY.....	32
SQUARE TUBING / FLASH CONTROL.....	33	TUBING, ROUND, GALVANIZED.....	33
SQUARE TUBING, ALUMINUM 21.....	34	TUBING, SQUARE.....	30
STAINLESS ALL THREAD 12'.....	15	TUBING, SQUARE, ALUMINUM 21'.....	34
STAINLESS ANGLE T-304 20'.....	2	TUBING, SQUARE, GALVANIZED 20'.....	36
STAINLESS CONTINUOUS HINGES.....	15	TUBING, SQUARE, IMPORTED.....	34
STAINLESS EXPANDED METAL T-304.....	7	TUBING, SQUARE, STAINLESS 20'.....	36
STAINLESS FLAT METAL T-304.....	7	TUBING, STAINLESS ROUND, SEAMLESS 20'.....	34
STAINLESS FLAT METAL T-316.....	7	TWISTERS.....	4
STAINLESS FLAT T-304 12'.....	13	TYWIRE.....	4
STAINLESS FLAT T-316 12'.....	13	UM PLATE 20'.....	13
STAINLESS PIPE SCH80 T-304.....	18	UNPAINTED BAR GRATING.....	2
STAINLESS PIPE SCH80 T-316.....	18	UNPAINTED PIPE SCH10 21'.....	17
STAINLESS PIPE T-304 SCH10 20'.....	18	UNPAINTED PIPE SCH40 21'.....	17
STAINLESS PIPE T-304 SCH40 20'.....	18	UNPAINTED PIPE SCH80 42'.....	17
STAINLESS PIPE T-316 SCH40 20'.....	18	UNPAINTED SERR. BAR GRATING.....	3
STAINLESS PLATE T-304-#1.....	22	VALVES, BALL MILWAUKEE.....	36
STAINLESS PLATE T-316-#1.....	22	VALVES, BUTTERFLY LUG STYLE.....	37
STAINLESS RD TUBING SEAMLESS 20'.....	34	VALVES, CHECK HAMMOND-THREADED.....	37
STAINLESS RD TUBING WELDED 20'.....	34	VALVES, GATE MILWAUKEE.....	37
STAINLESS ROUND T-303 12' R/L.....	25	VALVES, GLOBE MILWAUKEE.....	38
STAINLESS ROUND T-304 12' R/L.....	25	WAFER STYLE VALVES.....	37
STAINLESS ROUND T-316 12' R/L.....	25	WALKWAY, GALVANIZED GRIP STRUT.....	14
STAINLESS ROUND T-416-PSQ R/L 20'.....	25	WELDABLE - REBAR.....	5
STAINLESS SANITARY TUBING 304L 20'.....	34	WF BEAM A-36 20'/40'.....	3



# INDEX

**GENERAL-STEEL.COM**

WIRE TIES.....	5
ZEE PURLINS - PRIMED.....	5