STAINLESS & NICKLE ALLOY

STAINLESS STEEL SHEETS

TYPE 304, 304L, 316, 316L

No. 2B Finish — Cold Rolled, Annealed *No. 2D Finish
No. 3 Finish — Polished One Side No. 4 Finish — Polished One Side

Stainless Steel Gauge, Width, and Length	Weight Lbs. per Sq. Ft.	Est. Wt. per Sheet
7 Ga. (.1874")		
48 x 96	7.871	251.9
48 x 120	7.871	314.8
48 x 144	7.871	377.8
10 Ga. (.135")		
36 x 120	5.670	170.1
48 x 96	5.670	181.4
48 x 120	5.670	226.8
60 x 120*	5.670	283.5
60 x 144*	5.670	340.2
72 x 120*	5.670	340.2
11 Ga. (.120")		
36 x 96	5.040	121.0
36 x 120	5.040	151.2
36 x 144	5.040	181.4
48 x 96	5.040	161.3
48 x 120	5.040	201.6
48 x 144	5.040	241.9
60 x 120	5.040	252.0
60 x 144	5.040	302.4
72 x 120*	5.040	302.4
72 x 144*	5.040	362.9
12 Ga. (.105")		
36 x 96	4.410	105.8
36 x 120	4.410	132.3
36 x 144	4.410	158.8
42 x 120	4.410	154.4
48 x 96	4.410	141.1
48 x 120	4.410	176.4
48 x 144	4.410	211.7
60 x 96	4.410	176.4
60 x 120	4.410	220.5
60 x 144	4.410	264.6
72 x 120*	4.410	264.6
72 x 144*	4.410	317.5

STAINLESS STEEL SHEETS (continued)

TYPE 304, 304L, 316, 316L

No. 2B Finish — Cold Rolled, Annealed ***No. 2D Finish**
No. 3 Finish — Polished One Side **No. 4 Finish — Polished One Side**

Stainless Steel Gauge, Width, and Length	Weight Lbs. per Sq. Ft.	Est. Wt. per Sheet
13 Ga. (.090")		
36 x 96	3.780	90.72
36 x 120	3.780	113.4
48 x 120	3.780	151.2
14 Ga. (.075")		
30 x 120	3.150	78.75
36 x 96	3.150	75.60
36 x 120	3.150	94.50
36 x 144	3.150	113.4
42 x 120	3.150	110.3
42 x 144	3.150	132.3
48 x 96	3.150	100.8
48 x 120	3.150	126.0
48 x 144	3.150	151.2
60 x 120	3.150	157.5
60 x 144	3.150	189.0
72 x 120	3.150	189.0
72 x 144	3.150	226.8
16 Ga. (.060")		
30 x 96	2.520	50.40
30 x 120	2.520	63.00
36 x 96	2.520	60.48
36 x 120	2.520	75.60
36 x 144	2.520	90.72
42 x 120	2.520	88.20
48 x 96	2.520	80.64
48 x 120	2.520	100.8
48 x 144	2.520	121.0
60 x 96	2.520	100.8
60 x 120	2.520	126.0
60 x 144	2.520	151.2

STAINLESS STEEL SHEETS (continued)

TYPE 304, 304L, 316, 316L

No. 2B Finish — Cold Rolled, Annealed *No. 2D Finish
No. 3 Finish — Polished One Side No. 4 Finish — Polished One Side

Stainless Steel Gauge, Width, and Length	Weight Lbs. per Sq. Ft.	Est. Wt. per Sheet
18 Ga. (.048")		
30 x 96	2.016	40.32
30 x 120	2.016	50.40
36 x 96	2.016	48.38
36 x 120	2.016	60.48
36 x 144	2.016	72.58
42 x 120	2.016	70.56
48 x 96	2.016	64.51
48 x 120	2.016	80.64
48 x 144	2.016	96.77
60 x 120	2.016	100.8
60 x 144	2.016	121.0
19 Ga. (.042")		
36 x 120	1.764	52.92
20 Ga. (.036")		
30 x 96	1.512	30.24
30 x 120	1.512	37.80
36 x 96	1.512	36.29
36 x 120	1.512	45.36
36 x 144	1.512	54.43
42 x 120	1.512	52.92
48 x 96	1.512	48.38
48 x 120	1.512	60.48
48 x 144	1.512	72.58
22 Ga. (.030")		
30 x 96	1.260	25.20
30 x 120	1.260	31.50
36 x 96	1.260	30.24
36 x 120	1.260	37.80
36 x 144	1.260	45.36
48 x 96	1.260	40.32
48 x 120	1.260	50.40

STAINLESS STEEL SHEETS (continued)

TYPE 304, 304L, 316, 316L

No. 2B Finish — Cold Rolled, Annealed ***No. 2D Finish**
No. 3 Finish — Polished One Side **No. 4 Finish — Polished One Side**

Stainless Steel Gauge, Width, and Length	Weight Lbs. per Sq. Ft.	Est. Wt. per Sheet
24 Ga. (.024")		
30 x 96	1.008	20.16
30 x 120	1.008	25.20
36 x 96	1.008	24.19
36 x 120	1.008	30.24
48 x 96	1.008	32.26
48 x 120	1.008	40.32
26 Ga. (.018")		
30 x 96	.7560	15.12
30 x 120	.7560	18.90
36 x 96	.7560	18.14
36 x 120	.7560	22.68
48 x 96	.7560	24.19
48 x 120	.7560	30.24
28 Ga. (.015")		
36 x 96	.630	15.12
36 x 120	.630	18.90

EXPANDED STAINLESS SHEETS

TYPE 304 & 316 - FLATTENED

Long way of diamond runs parallel to length of sheet.

Sizes in Stock

Style Designation	Size in Inches	Wt. Per Sq. Ft. in lbs.	Wt. Per Sheet	Style Designation	Size in Inches	Wt. Per Sq. Ft. in lbs.	Wt. Per Sheet
¾ 9	48 x 96	1.95	62.4	¾ 13	48 x 96	0.86	27.5
½ 13	48 x 96	1.78	56.9	¾ 16	48 x 96	0.57	18.2
½ 16	48 x 96	0.86	27.5	¾ 18	48 x 96	0.46	14.7
½ 18	48 x 96	0.69	22.1	1½ 13	48 x 96	0.65	20.8
1½ 9	48 x 96	1.31	41.9				

STAINLESS PLATES

TYPE 304, 304L, 316 AND 316L

Hot Rolled, Annealed and Pickled

Thickness and Size in Inches		Est. Wt. per Sq. Ft. in Lbs.	Thickness and Size in Inches		Est. Wt. per Sq. Ft. in Lbs.
3/16	48	8.579	1/2	48	21.660
	60	8.579		60	21.660
	72	8.579		72	21.660
	84	8.579		84	21.660
	96	8.579		96	21.660
	120	8.579		120	21.660
1/4	48	11.160	5/8	96	26.830
	60	11.160	3/4	96	32.120
	72	11.160	7/8	96	37.290
	84	11.160	1	60	42.670
	96	11.160		96	42.670
	120	11.160	1 1/8	96	47.830
5/16	48	13.750	1 1/4	96	53.000
	60	13.750	1 1/2	96	63.340
	72	13.750	1 3/4	96	73.670
	84	13.750	2	96	84.010
	96	13.750	2 1/2	96	105.100
	120	13.750	3	96	126.300
3/8	48	16.500	3 1/4	96	136.600
	60	16.500	3 1/2	96	147.000
	72	16.500	3 3/4	96	157.300
	84	16.500	4	96	167.600
	96	16.500			
	120	16.500			

STAINLESS DIAMOND FLOOR PLATES

304/316L

Hot Rolled, Annealed and Pickled

ASTM A793-85-Identification Color: Green

Sizes in Stock

Thickness and Width in Inches	St. Per Sq. Ft. in Lbs.	304	316L
3/16...48	8.70	X	
3/16...60	8.70	X	
1/4...48	11.25	X	X
1/4...60	11.25	X	
3/8...48	16.70	X	

STAINLESS ROUND BAR
TYPE 303, 304, 316

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar	Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar
¾	1.502	18.02	2⅛	12.06	144.7
13/16	1.763	21.16	2¼	13.52	162.2
⅞	2.045	24.54	2⅜	15.06	180.7
15/16	2.347	28.16	2 7/16	15.87	190.4
1	2.670	32.04	2½	16.69	200.3
1 1/16	3.015	36.18	2⅝	18.40	220.8
1⅛	3.380	40.56	2¾	20.19	242.3
1 3/16	3.766	45.19	2⅞	22.07	264.8
1¼	4.173	50.08	3	24.03	288.4
1 5/16	4.600	55.20	3⅛	26.08	313.0
1⅜	5.049	60.59	3¼	28.21	338.5
1 7/16	5.518	66.22	3⅜	30.42	365.0
1½	6.008	72.10	3½	32.71	392.5
1⅝	7.052	84.62	3¾	37.55	450.6
1 11/16	7.604	91.25	4	42.73	512.8
1¾	8.178	98.14	4¼	48.23	578.8
1⅞	9.388	112.7	4½	54.08	649.0
1 15/16	10.02	120.2	4¾	60.25	723.0
2	10.68	128.2	5	66.76	801.1

STAINLESS SQUARE BAR
TYPE 304, 316
Cold Finished

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar	Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar
⅛	.0531	.6372	¾	1.913	22.96
3/16	.1195	1.434	⅞	2.603	31.24
¼	.2125	2.550	1	3.400	40.80
5/16	.3320	3.984	1⅛	4.303	51.64
⅜	.4781	5.737	1¼	5.313	63.76
7/16	.6508	7.810	1½	7.650	91.80
½	.8500	10.20	1¾	10.41	124.9
9/16	.1.076	12.91	2	13.60	163.2
⅝	1.328	15.94			

STAINLESS FLATS

TYPE 304, 316 — Annealed and Pickled

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar	Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar
⅛ x ½	.2125	2.550			
⅝	.2656	3.187	⅜ x ½	.6375	7.650
¾	.3188	3.826	¾	9.563	11.48
1	.4250	5.100	1	1.275	15.30
1¼	.5313	6.376	1¼	1.594	19.30
1½	.6375	7.650	1½	1.913	22.96
2	.8500	10.20	1¾	2.231	26.77
2½	1.063	12.76	2	2.550	30.60
3	1.275	15.30	2½	3.188	38.26
3/16 x ½	.3188	3.826	3	3.825	45.90
⅝	.3984	4.781	4	5.100	61.20
¾	.4781	5.737	5	6.375	76.50
1	.6375	7.650	6	7.650	91.80
1¼	.7969	9.563	½ x ¾	1.275	15.30
1½	.9563	11.48	1	1.700	20.40
1¾	1.116	13.39	1¼	2.125	25.50
2	1.275	15.30	1½	2.550	30.60
2½	1.594	19.13	1¾	2.975	35.70
3	1.913	22.96	2	3.400	40.80
¼ x ½	.4250	5.100	2½	4.250	51.00
⅝	.5313	6.376	3	5.100	61.20
¾	.6375	7.650	3½	5.950	71.40
1	.8500	10.20	4	6.800	81.60
1¼	1.063	12.76	4½	7.650	91.80
1½	1.275	15.30	5	8.500	102.0
1¾	1.488	17.86	6	10.20	122.4
2	1.700	20.40	⅝ x ¾	1.594	19.13
2½	2.125	25.50	1	2.125	25.50
3	2.550	30.60	1½	3.188	38.26
4	3.400	40.80	2	4.250	51.00
6	5.100	61.20	2½	5.313	63.76

STAINLESS FLATS (continued)
TYPE 304, 316 — Annealed and Pickled

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar	Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar
⅝ x 3	6.375	76.50	4	10.20	122.4
3½	7.438	89.26	5	12.75	153.0
4	8.500	10.20	6	15.30	183.6
6	12.75	153.0	1 x 1½	5.100	61.20
¾ x 1	2.550	30.60	1¾	5.950	71.40
1¼	3.188	38.26	2	6.800	81.60
1½	3.825	45.90	2½	8.500	102.0
2	5.100	61.20	3	10.20	122.4
2½	6.375	76.50	4	13.60	163.2
3	7.650	91.80	6	20.40	244.8

STAINLESS ANGLES
TYPE 304, 304L, 316, and 316L

Size in Inches	Est. Wt. per Ft. in Lbs.	Size in Inches	Est. Wt. per Ft. in Lbs.
¾ x ¾ x ⅛	.590	2½ x 2½ x 3/16	3.07
1 x 1 x ⅛	.800	2½ x 2½ x ¼	4.10
1 x 1 x 3/16	1.16	2½ x 2½ x ⅜	5.90
1 x 1 x ¼	1.49	3 x 2 x 3/16	3.07
1¼ x 1¼ x ⅛	1.01	3 x 2 x ¼	4.10
1¼ x 1¼ x 3/16	1.48	3 x 3 x ¼	4.90
1¼ x 1¼ x ¼	1.92	3 x 3 x 5/16	6.10
1½ x 1½ x ⅛	1.23	3 x 3 x ⅜	7.20
1½ x 1½ x 3/16	1.80	3½ x 3½ x ¼	5.80
1½ x 1½ x ¼	2.34	4 x 3 x ¼	5.80
2 x 2 x ⅛	1.65	4 x 3 x ⅜	8.50
2 x 2 x 3/16	2.44	4 x 4 x ¼	6.60
2 x 2 x ¼	3.19	4 x 4 x ⅜	9.80
2 x 2 x ⅜	4.70	5 x 3 x ⅜	9.85

WELDED STAINLESS PIPE

TYPE 304 TYPE 316

Schedule 40 — Standard IPS
Cold Finished, Annealed and Pickled
17-24 Ft. Random Lengths — ASTM A312

Iron Pipe Size In.	Diameter Inches		Wall Thickness Inches	Wt. Per Ft. Lbs.
	O.D.	I.D.		
⅛	.405	.269	.068	.2447
¼	.540	.364	.088	.4248
⅜	.675	.493	.091	.5676
½	.840	.622	.109	.8510
¾	1.050	.824	.113	1.131
1	1.315	1.049	.133	1.679
1¼	1.660	1.380	.140	2.273
1½	1.900	1.610	.145	2.718
2	2.375	2.067	.154	3.653
2½	2.875	2.469	.203	5.793
3	3.500	3.068	.216	7.576
3½	4.000	3.548	.226	9.109
4	4.500	4.026	.237	10.79
5	5.563	5.047	.258	14.62
6	6.625	6.065	.280	18.97

WELDED EXTRA HEAVY STAINLESS PIPE

TYPE 304

Schedule 80 — Extra Heavy IPS
Cold Finished, Annealed and Pickled
17-24 Ft. Random Lengths — ASTM A312

Ex. Hv. Pipe Size Inches	Diameter Inches		Wall Thickness Inches	Wt. Per Ft. Lbs.
	O.D.	I.D.		
⅛	.405	.215	.095	.3145
¼	.540	.302	.119	.5351
⅜	.675	.423	.126	.7388
½	.840	.546	.147	1.088
¾	1.050	.742	.154	1.474
1	1.315	.957	.179	2.172
1¼	1.660	1.278	.191	2.997
1½	1.900	1.500	.200	3.631
2	2.375	1.939	.218	5.022
2½*	2.875	2.323	.276	7.66
3 *	3.500	2.900	.300	10.25
3½*	4.000	3.364	.318	12.51
4 *	4.500	3.826	.337	14.98
5 *	5.563	4.813	.375	20.78

*These sizes are Seamless.

STAINLESS TUBING

WELDED TYPE 304

Round, Square and Rectangular
Ornamental/Structural Grade - Mill Finish
Identification Color: Green
20 Ft. Lengths

Sizes in Stock

Outside Dimension in Inches	Wall Thickness Gauge	Wall Thickness Decimal	Weight per Ft. in Lbs.
Round			
¾	20	.035	.2673
	18	.049	.3668
	16	.065	.4755
	13	.095	.6646
	11	.120	.8074
⅞	20	.035	.3140
	18	.049	.4323
	16	.065	.5623
	11	.120	.9676
1	20	.035	.3607
	18	.049	.4977
	16	.065	.6491
	14	.083	.8129
	11	.120	1.128
	3/16	.188	1.630
1⅛	16	.065	.7359
1¼	20	.035	.4542
1¼	18	.049	.6285
	16	.065	.8226
	14	.083	1.035
	11	.120	1.448
	¼	.250	2.670
1⅜	16	.065	.9094
1½	20	.035	.5476
	18	.049	.7593
	16	.065	.9962
	14	.083	1.256
	11	.120	1.769

STAINLESS TUBING (continued)

WELDED TYPE 304

Round, Square and Rectangular
Ornamental/Structural Grade - Mill Finish
Identification Color: Green
20 Ft. Lengths

Sizes in Stock

Outside Dimension in Inches	Wall Thickness Gauge	Wall Thickness Decimal	Weight per Ft. in Lbs.
Round			
	3/16	.188	2.634
	1/4	.250	3.338
*1⅛	16	.065	1.083
1¼	20	.035	.6411
	18	.049	.8902
	16	.065	1.170
	11	.120	2.089
	3/16	.188	3.136
2	20	.035	.7345
	18	.049	1.021
	16	.065	1.343
*Polished			

STAINLESS TUBING (continued)

WELDED TYPE 304

Round, Square and Rectangular
Ornamental/Structural Grade - Mill Finish
Identification Color: Green
20 Ft. Lengths

Sizes in Stock

Outside Dimension in Inches	Wall Thickness Gauge	Wall Thickness Decimal	Weight per Ft. in Lbs.
Square			
1	18	0.0490	0.630
	16	0.0650	0.827
	11	0.1200	1.436
1¼	16	0.0650	1.050
	14	0.0830	1.317
	11	0.1200	1.844
1½	16	0.0650	1.270
	14	0.0830	1.610
	11	0.1200	2.255
	7	0.1800	3.630
1¾	14	0.0830	1.880
2	16	0.0650	1.710
	14	0.083	2.164
	11	0.1200	3.068
	7	0.1800	4.455
	3/16	0.1880	4.460
	¼	0.2500	6.010
2½	7	0.1800	5.680
3	14	0.0830	3.293
	11	0.1200	4.700
	7	0.1800	6.903
	3/16	0.1880	6.900
	¼	0.2500	10.00
4	11	0.1200	6.260
	7	0.1800	9.270
	3/16	0.1880	9.270
	¼	0.2500	12.68

STAINLESS TUBING (continued)

WELDED TYPE 304

Round, Square and Rectangular
Ornamental/Structural Grade - Mill Finish
Identification Color: Green
20 Ft. Lengths

Sizes in Stock

Outside Dimension in Inches	Wall Thickness Gauge	Wall Thickness Decimal	Weight per Ft. in Lbs.
Rectangular			
1½ x 1	11	0.1200	1.929
2 x 1	16	0.0650	1.270
2 x 1	11	0.1200	2.252
3 x 2	11	0.1200	3.884
3 x 2	7	0.1800	5.679
4 x 2	11	0.1200	4.700
4 x 2	7	0.1800	6.903
4 x 2	¼	0.2500	10.00
4 x 3	7	0.1800	8.127
6 x 2	7	0.1800	9.270
6 x 2	¼	0.2500	12.68
4 x 3	¼	0.2500	10.89
5 x 3	7	0.1800	9.270
5 x 3	¼	0.2500	12.68
6 x 3	7	0.1800	10.52
6 x 4	7	0.1800	11.90
6 x 4	¼	0.2500	16.35

NICKEL ALLOYS

Nickel-chromium-iron alloys developed for use in severely corrosive environments at elevated temperatures.

C 600

ASTM B168
ASME SB168

Chemical Composition (Nominal Analysis, Percent)

Nickel-Chromium-iron alloys developed for use in severely corrosive environments at elevated temperatures. Resistant to dry Cl_2 and HCl gases at moderately elevated temperatures. Good high-temperature strength and oxidation resistance to 2150° (1175°C). Especially useful in carburizing environments. Resists chloride-ion stress-corrosion cracking.

Carbon, max.	0.15	Copper, max.	0.5
Manganese, max.	1.0	Iron	6.0-10.0
Silicon, max.	0.4	Chromium	14.0-17.0
Sulfur, max.	0.015	Nickel (plus Cobalt), min.	72.0

Typical Tensile Strength, ksi	38.0
Yield Strength, 0.2% Offset, ksi	41.0

C 601

ASTM B168
ASME SB168

Nickel-chromium-iron alloy exhibiting out-standing resistance to both cyclic and static oxidation to 2300°F (1260°C). High tensile, yield and creep-rupture strengths at high temperatures. Excellent resistance to stress-corrosion cracking, carburizing, nitriding and sulfur containing environments.

Carbon, max.	0.10	Chromium	21.0-25.0
Manganese, max.	1.0	Nickel	58.0-63.0
Silicon, max.	0.50	Titanium	0.10-0.60
Sulfur, max.	0.015	Aluminum	1.0-1.7
Copper, max.	1.0	Iron	Remainder
Boron, Max.	0.006		

Typical Tensile Strength, ksi	43.0
Yield Strength, 0.2% Offset, ksi	35.0

NOTES