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PROCESSING SERVICES

Saw Cutting – Controlled high speed band saws for cutting exact lengths.

Flame Cutting – torch and line cutting

Plasma Cutting – torch and line cutting

Shearing – up to 3/8" x 10ft CNC shear

Breaking – up to 1/4" x 12ft x 175 tonne CNC break

Iron Worker – 110 tonne programmable

Pipe Threading – 1/4" to 4" Pipe

Hot and Cold Rolled Bars

Flat Bar

Angles

Channel

I-Beam

Wide Flange Beam

Carbon Plate

Checkered Plate

Abrasion Resistant Plates

Boiler Plates

Quenched and Tempered Plates

Expanded Metal

Woven Mesh

Bar Grating

Premade Steps

Grip Strut

Steel Pipe

Piling Pipe

Hollow Structural Tubing

Grouser Bar

Pre Cut Pile Caps

Aluminum Alloys

Stainless Steel

Hot Rolled Rounds – A36/44W – 20ft lengths

<u>Size</u>	<u>Weight</u>
1/4"	0.167
3/8"	0.376
1/2"	0.668
5/8"	1.04
3/4"	1.50
7/8"	2.04
1"	2.67
1-1/4"	4.17
1-1/2"	6.01
2"	10.68
3"	24.03

Hot Rolled Squares – A36/44W – 20ft lengths

<u>Size</u>	<u>Weight</u>
3/8"	0.478
1/2"	0.850
3/4"	1.91
1"	3.40
1-1/4"	5.31
1-1/2"	7.65
2"	13.6

Please inquire about any sizes that may not be listed.

Weight is in pounds per foot

Cold Rolled Rounds – C1018 – 20ft lengths

<u>Size</u>	<u>Weight</u>
1/4"	0.167
3/8"	0.376
1/2"	0.670
9/16"	0.850
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"	10.68
2-1/2"	16.69

Please inquire about any sizes that may not be listed.

*Weight is in pounds per foot *

Hot Rolled Flat Bars – A36/44W – 20ft lengths

<u>Size</u>	<u>Weight</u>
1/8" x 1/2"	0.213
1/8" x 3/4"	0.319
1/8" x 1"	0.425
1/8" x 1-1/4"	0.531
1/8" x 1-1/2"	0.638
1/8" x 2"	0.850
1/8" x 2-1/2"	1.063
1/8" x 3"	1.275
1/8" x 4"	1.700
1/8" x 5"	2.125
1/8" x 6"	2.550
1/8" x 8"	3.400
1/8" x 10"	5.00

<u>Size</u>	<u>Weight</u>
1/4" x 3/4"	0.638
1/4" x 1"	0.850
1/4" x 1-1/4"	1.06
1/4" x 1-1/2"	1.28
1/4" x 2"	1.70
1/4" x 3"	2.55
1/4" x 3-1/2"	2.98
1/4" x 4"	3.40
1/4" x 5"	4.25
1/4" x 6"	5.10
1/4" x 8"	6.80
1/4" x 10"	8.51
1/4" x 12"	10.20

<u>Size</u>	<u>Weight</u>
1/2" x 1"	1.70
1/2" x 1-1/4"	2.13
1/2" x 1-1/2"	2.55
1/2" x 2"	3.40
1/2" x 3"	5.10
1/2" x 4"	6.80
1/2" x 5"	8.50
1/2" x 6"	10.20
1/2" x 8"	13.60
1/2" x 10"	17.00
1/2" x 12"	20.40

<u>Size</u>	<u>Weight</u>
3/16" x 1"	.638
3/16" x 1-1/4"	.797
3/16" x 1-1/2"	.956
3/16" x 2"	1.28
3/16" x 3"	1.913
3/16" x 4"	2.55
3/16" x 5"	3.19
3/16" x 6"	3.83
3/16" x 8"	5.10

<u>Size</u>	<u>Weight</u>
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 4"	5.100
3/8" x 5"	6.380
3/8" x 6"	7.650
3/8" x 8"	10.20
3/8" x 10"	12.75

<u>Size</u>	<u>Weight</u>
5/8" x 2"	4.25
5/8" x 3"	6.38
5/8" x 4"	8.50

Hot Rolled Flat Bars – A36/44W – 20ft lengths

<u>Size</u>	<u>Weight</u>
3/4" x 1"	2.55
3/4" x 1-1/2"	3.825
3/4" x 2"	5.10
3/4" x 3"	7.65
3/4" x 4"	10.20
3/4" x 5"	12.75
3/4" x 6"	15.30
3/4" x 8"	20.40
3/4" x 10"	25.50
3/4" x 12"	30.60

<u>Size</u>	<u>Weight</u>
1" x 2"	6.80
1" x 3"	10.20
1" x 4"	13.60
1" x 5"	17.00
1" x 6"	20.40
1" x 8"	27.20
1" x 10"	34.00
1" x 12"	40.80

Please inquire about any sizes that may not be listed.

*Weight is in pounds per foot *

HSS – GR50 – G40.21 – 24ft lengths

<u>Size</u>	<u>Weight</u>	<u>Size</u>	<u>Weight</u>
1/2" x 1/2" x .065	0.38	2" x 2" x .250	5.41
3/4" x 3/4" x .065	0.61	2-1/2" x 2-1/2" x .250	7.11
1" x 1" x .100	1.14	3" x 2" x .250	7.11
1-1/4" x 1-1/4" x .100	1.48	3" x 3" x .250	8.81
1-1/2" x 1-1/2" x .100	1.82	3-1/2" x 3-1/2" x .250	10.51
2" x 2" x .100	2.50	4" x 2" x .250	8.81
		4" x 3" x .250	10.51
1" x 1" x .125	1.35	4" x 4" x .250	12.21
1-1/4" x 1-1/4" x .125	1.78	5" x 2" x .250	10.51
1-1/2" x 1-1/2" x .125	2.20	5" x 3" x .250	12.21
2" x 1" x .125	2.21	5" x 5" x .250	15.62
2" x 2" x .125	3.06	6" x 2" x .250	12.21
2-1/2" x 1-1/2" x .125	3.06	6" x 3" x .250	13.91
2-1/2" x 2-1/2" x .125	3.91	6" x 4" x .250	15.62
3" x 1-1/2" x .125	3.48	6" x 6" x .250	19.02
3" x 2" x .125	3.91	7" x 5" x .250	19.02
3" x 3" x .125	4.76	7" x 7" x .250	22.42
4" x 2" x .125	4.76	8" x 4" x .250	19.02
4" x 4" x .125	6.46	8" x 6" x .250	22.42
5" x 2" x .125	5.61	8" x 8" x .250	25.82
5" x 3" x .125 Seamless	6.46	10" x 4" x .250	22.42
6" x 2" x .125	6.46		
		2-1/2" x 2-1/2" x .215	6.20
1-1/2" x 1-1/2" x .188	3.35		
2" x 2" x .188	4.33	3" x 3" x .375	12.2
2-1/2" x 2-1/2" x .188	5.61	3-1/2" x 3-1/2" x .375	14.71
3" x 1-1/2" x .188	4.96	4" x 3" x .375	14.71
3" x 3" x .188	6.89	4" x 4" x .375	17.27
4" x 3" x .188	8.17	5" x 5" x .375	22.37
4" x 4" x .188	9.45	6" x 2" x .375	17.27
6" x 2" x .188	9.45	6" x 3" x .375	19.82
6" x 3" x .188	10.70	6" x 4" x .375	22.37
6" x 6" x .188	14.56	6" x 6" x .375	27.48
8" x 2" x .188	11.90	8" x 4" x .375	27.48
8-1/2" x 2" x .188	12.65	8" x 8" x .375	37.69

HSS – GR50 – G40.21 – 24ft lengths

<u>Size</u>	<u>Weight</u>	<u>Size</u>	<u>Weight</u>
4" x 4" x .500	21.63		
5" x 5" x .500	28.43		
6" x 6" x .500	35.24		
8" x 8" x .500	48.85		

Please inquire about any sizes that may not be listed.

*Weight is in pounds per foot *

Angle Bars – A36/44W – 20ft lengths

<u>Size</u>	<u>Weight</u>	<u>Size</u>	<u>Weight</u>
1/2" x 1/2" x 1/8"	0.38	2" x 2" x 3/8"	4.70
3/4" x 3/4" x 1/8"	0.59	2-1/2" x 2-1/2" x 3/8"	5.90
1" x 1" x 1/8"	0.80	3" x 2" x 3/8"	5.90
1-1/4" x 1-1/4" x 1/8"	1.01	3" x 3" x 3/8"	7.20
1-1/2" x 1-1/2" x 1/8"	1.23	4" x 3" x 3/8"	8.50
2" x 2" x 1/8"	1.65	4" x 4" x 3/8"	9.80
		5" x 3" x 3/8"	9.80
1" x 1" x 3/16"	1.16	5" x 5" x 3/8"	12.30
1-1/4" x 1-1/4" x 3/16"	1.48	6" x 4" x 3/8"	12.30
1-1/2" x 1-1/2" x 3/16"	1.80	6" x 6" x 3/8"	14.90
2" x 2" x 3/16"	2.44		
2-1/2" x 2-1/2" x 3/16"	3.07	4" x 4" x 1/2"	12.80
3" x 2" x 3/16"	3.07	5" x 5" x 1/2"	16.20
3" x 3" x 3/16"	3.71	6" x 4" x 1/2"	16.20
		6" x 6" x 1/2"	19.60
1" x 1" x 1/4"	1.49		
1-1/4" x 1-1/4" x 1/4"	1.92		
1-1/2" x 1-1/2" x 1/4"	2.34		
2" x 2" x 1/4"	3.19		
2-1/2" x 2-1/2" x 1/4"	4.10		
3" x 2" x 1/4"	4.10		
3" x 3" x 1/4"	4.90		
3-1/2" x 3-1/2" x 1/4"	5.80		
4" x 3" x 1/4"	5.80		
4" x 4" x 1/4"	6.60		
5" x 3" x 1/4"	6.60		

Please inquire about any sizes that may not be listed.

Weight is in pounds per foot

Channel Bars –A36/44W – 20ft lengths

<u>Size</u>	<u>Metric</u>	<u>Depth</u>	<u>Flange Width</u>	<u>Flange Thickness</u>	<u>Web Thickness</u>	<u>Section Modulus In³</u>
3" @ 4.1lb	C75x6	3"	1.41	0.273	0.170	1.11
3" @ 6.0lb	C75x9	3"	1.60	.273	.356	1.38
4" @ 5.4lb	C100x8	4"	1.58	0.296	0.184	1.93
4" @ 7.25lb	C100x11	4"	1.72	0.296	0.321	2.30
5" @ 6.7lb	C130x10	5"	1.75	0.320	0.190	3.00
6" @ 8.2lb	C150x12	6"	1.92	0.343	0.200	4.37
6" @ 10.5lb	C150x16	6"	2.03	0.343	0.314	5.07
7" @ 9.8lb	C180x15	7"	2.09	0.366	0.210	6.09
8" @ 11.5lb	C200x17	8"	2.26	0.390	0.220	8.15
8" @ 13.75lb	C200x21	8"	2.34	0.390	0.303	9.03
10" @ 15.3lb	C250x23	10"	2.60	0.436	0.240	13.5
10" @ 25lb	C250x37	10"	2.89	0.436	0.526	18.2
12" @ 20.7lb	C310x31	12"	2.94	0.501	0.282	21.5
12" @ 25lb	C310x37	12"	3.05	0.501	0.387	24.0
15" @ 33.9lb	C380x50	15"	3.40	0.650	0.400	42.0

Please inquire about any sizes that may not be listed.

Weight is in pounds per foot



SCHAFFER'S CUSTOM WELDING LTD.

BOX 1401, WHITECOURT, AB T7S 1P3

PHONE (780) 778-5611 FAX (780) 778-3784

RING ROLLING GUIDELINE

ANGLES



LEG OUT

Specify inside diameter and, if unequal which leg is out.



LEG IN

Specify outside diameter and, if unequal, which leg is in.



HEEL OUT

Specify inside diameter



HEEL IN

Specify outside diameter

BEAMS



EZ WAY

Specify diameter of web C/L



HARD WAY

Specify I.D. of O.D.

CHANNELS



EZ WAY

FLANGES OUT

Specify inside diameter



EZ WAY

FLANGES IN

Specify outside diameter



**HARD WAY
OF WEB**

Specify I.D. or O.D.

BARS



EZ WAY

Specify I.D. or O.D.



HARD WAY

Specify I.D. or O.D.

TEES



STEM OUT

Specify inside diameter



STEM IN

Specify outside diameter



STEM UP

Specify diameter of stem C/L

NOTE: The Length to be rolled should be equal to the arc length required plus sufficient overage to accommodate roll feeding practices

Wide Flange Beams –A36/44W/A572-50 – 20ft lengths

<u>Size & Weight</u>	<u>Metric</u>	<u>Depth</u>	<u>Flange Width</u>	<u>Flange Thickness</u>	<u>Web Thickness</u>	<u>Section Modulus In³</u>
4" @ 13lb	W100x19	4.16	4.06	.345	.280	5.43
6" @ 15lb	W150x22	5.99	5.99	.260	.230	9.72
6" @ 20lb	W150x30	6.20	6.02	.365	.260	13.40
6" @ 25lb	W150x37	6.38	6.08	.455	.320	16.70
8" @ 13lb	W200x19	7.99	4.00	.255	.230	9.910
8" @ 18lb	W200x27	8.14	5.25	.330	.230	15.20
8" @ 24lb	W200x36	7.93	6.50	.400	.245	20.90
8" @ 31lb	W200x46	8.00	8.00	.435	.285	27.50
8" @ 35lb	W200x52	8.12	8.02	.495	.310	31.20
8" @ 40lb	W200x59	8.25	8.07	.560	.360	35.50
10" @ 22lb	W250x33	10.17	5.75	.360	.240	23.20
10" @ 33lb	W250x49	9.73	7.96	.435	.290	35.00
10" @ 49lb	W250x73	9.98	10.00	.560	.340	54.60
12" @ 22lb	W310x33	12.31	4.03	.425	.260	25.40
12" @ 26lb	W310x39	12.22	6.49	.380	.230	33.40
12" @ 30lb	W310x45	12.34	6.52	.440	.260	38.60
12" @ 65lb	W310x97	12.12	12.00	.605	.390	87.9
14" @ 22lb	W360x33	13.74	5.00	.335	.230	29.00
21" @ 93lb	W530x138	21.62	8.42	.930	.580	192.00

I-Beam –A36/44W/A572-50 – 20ft lengths

<u>Size & Weight</u>	<u>Metric</u>	<u>Depth</u>	<u>Flange Width</u>	<u>Flange Thickness</u>	<u>Web Thickness</u>	<u>Section Modulus In³</u>
4" @ 7.7lb	S100x11	4"	2.66	.293	.193	3.04
5" @ 10lb	S130x15	5"	3.00	.326	.214	4.92
6" @ 12.5lb	S150x19	6"	3.33	.359	.232	7.37
8" @ 18.4lb	S200x27	8"	4.00	.425	.271	14.4
10" @ 25lb	S250x38	10"	4.66	.491	.311	24.8
10" @ 35lb	S250x52	10"	4.94	.491	.594	29.4
15" @ 42.9lb	S380x64	15"	5.50	.622	.411	59.6

Please inquire about any sizes that may not be listed.

Weight is in pounds per foot

Wide Flange Beams –A36/44W/A572-50 – 20ft lengths

<u>Size & Weight</u>	<u>Metric</u>	<u>Depth</u>	<u>Flange Width</u>	<u>Flange Thickness</u>	<u>Web Thickness</u>	<u>Section Modulus In³</u>
4" @ 13lb	W100x19	4.16	4.06	.345	.280	5.43
6" @ 15lb	W150x22	5.99	5.99	.260	.230	9.72
6" @ 20lb	W150x30	6.20	6.02	.365	.260	13.40
6" @ 25lb	W150x37	6.38	6.08	.455	.320	16.70
8" @ 13lb	W200x19	7.99	4.00	.255	.230	9.910
8" @ 18lb	W200x27	8.14	5.25	.330	.230	15.20
8" @ 24lb	W200x36	7.93	6.50	.400	.245	20.90
8" @ 31lb	W200x46	8.00	8.00	.435	.285	27.50
8" @ 35lb	W200x52	8.12	8.02	.495	.310	31.20
8" @ 40lb	W200x59	8.25	8.07	.560	.360	35.50
10" @ 22lb	W250x33	10.17	5.75	.360	.240	23.20
10" @ 33lb	W250x49	9.73	7.96	.435	.290	35.00
10" @ 49lb	W250x73	9.98	10.00	.560	.340	54.60
12" @ 22LB	W310x33	12.31	4.03	.425	.260	25.40
12" @ 26lb	W310x39	12.22	6.49	.380	.230	33.40
12" @ 30lb	W310x45	12.34	6.52	.440	.260	38.60
12" @ 65lb	W310x97	12.12	12.00	.605	.390	87.9
14" @ 22lb	W360x33	13.74	5.00	.335	.230	29.00
21" @ 93lb	W530x138	21.62	8.42	.930	.580	192.00

I-Beam –A36/44W/A572-50 – 20ft lengths

<u>Size & Weight</u>	<u>Metric</u>	<u>Depth</u>	<u>Flange Width</u>	<u>Flange Thickness</u>	<u>Web Thickness</u>	<u>Section Modulus In³</u>
4" @ 7.7lb	S100x11	4"	2.66	.293	.193	3.04
5" @ 10lb	S130x15	5"	3.00	.326	.214	4.92
6" @ 12.5lb	S150x19	6"	3.33	.359	.232	7.37
8" @ 18.4lb	S200x27	8"	4.00	.425	.271	14.4
10" @ 25lb	S250x38	10"	4.66	.491	.311	24.8
10" @ 35lb	S250x52	10"	4.94	.491	.594	29.4
15" @ 42.9lb	S380x64	15"	5.50	.622	.411	59.6

Please inquire about any sizes that may not be listed.

Weight is in pounds per foot

Steel Plates – A36/44W

<u>Thickness</u>	<u>Decimal</u>	<u>Weight/ft²</u>
14ga	0.0747	3.75
12ga	0.1046	4.38
1/8" (10ga)	0.125	5.625
3/16"	0.1875	7.66
1/4"	0.250	10.21
5/16"	0.3125	12.76
3/8"	0.375	15.32
1/2"	0.500	20.42
5/8"	0.625	25.53
3/4"	0.750	30.63
1"	1.000	40.84
1-1/4"	1.250	51.05
1-1/2"	1.500	61.26
1-3/4"	1.750	71.47
2"	2.00	81.68
2-1/2"	2.50	102.10
4"	4.00	163.35

Sheets are available in (4ft x 8ft) or (5ft x 10ft)

50W also available

Checkered Plate – Sheets, Commercial Quality, Hot Rolled (4ftx8ft)(5ftx10ft)(6ftx12ft)

<u>Thickness</u>	<u>Decimal</u>	<u>Weight/ft²</u>
1/8"	.125	6.16
3/16"	.1875	8.71
1/4"	.250	11.26
3/8"	.375	16.37

*Thickness is measured exclusive of raised figures

Please inquire about any thickness, sizes or grades that may not be listed.

*Weight is in pounds per square foot *

AR 400 Plates – Abrasion Resistant – (4ft x 8ft)

<u>Thickness</u>	<u>Decimal</u>	<u>Weight</u>
1/4" AR 400 Plate	0.250	10.21
3/8" AR 400 Plate	0.375	15.31
1/2" AR 400 Plate	0.500	20.42
3/4" AR 400 Plate	0.750	30.63
1" AR 400 Plate	1.000	40.84

QT 100 Plates – “Quench Treated” – (4ft x 8ft)

<u>Thickness</u>	<u>Decimal</u>	<u>Weight</u>
3/16" QT 100 Plate	0.1875	7.66
1/4" QT 100 Plate	0.250	10.21
3/8" QT 100 Plate	0.375	15.31
1/2" QT 100 Plate	0.500	20.42
5/8" QT 100 Plate	0.625	25.53
3/4" QT 100 Plate	0.750	30.63
1" QT 100 Plate	1.000	40.84
1-1/2" QT 100 Plate	1.500	61.26

A516 GR 70 Boiler Plate (4ftx8ft)

<u>Thickness</u>	<u>Decimal</u>	<u>Weight</u>
1/4" GR 70	.250	10.21
3/8" GR 70	.375	15.32
1/2" GR 70	.500	20.42
5/8" GR 70	.625	25.53
3/4" GR 70	.750	30.63

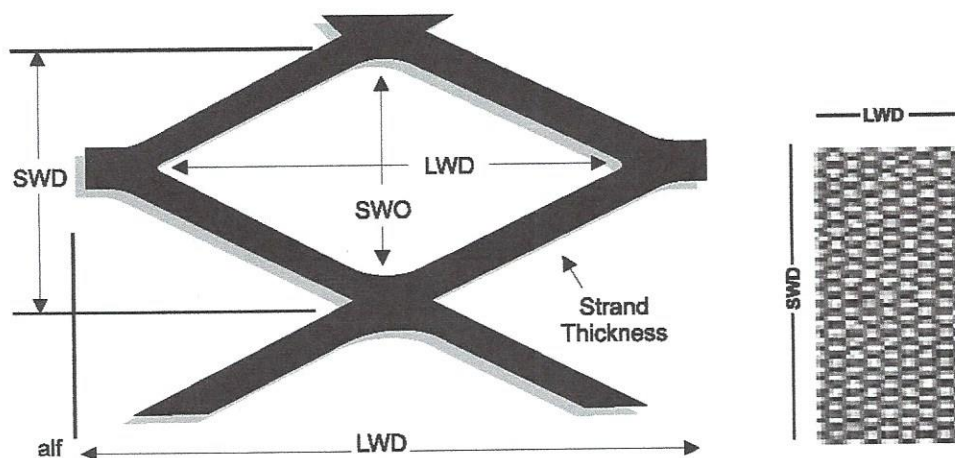
Please inquire about any sizes that may not be listed.

Weight is in pounds per square foot

Expanded Metal – 48" x 96"

<u>Size</u>	<u>Weight</u> Per ft	<u>Center to center of bridges</u>		<u>Size of openings</u>		<u>Strand</u>		<u>% Open Area</u>
		A SWD	B LWD	C SWO	O LWO	E Thick	F Width	
3/16" x 20ga	.96	0.218	0.500	0.094	0.343	0.032	0.063	39-43
1/2" x 13ga	1.47	0.500	1.250	0.375	1.000	0.070	0.110	50-56
3/4" x 9ga Raised	1.81	0.932	2.000	0.688	1.500	0.135	0.149	65-70
3/4" x 9ga Flat	1.75	0.923	2.100	0.563	1.688	0.120	0.165	63-69
3lb Grating	3.01	1.330	5.330	0.940	3.440	0.183	0.264	60

BOND: WHERE TWO STRANDS INTERSECT



S.W.D.: Short way of the diamond. Measured from the centre of one bond to the centre of the next.
L.W.D.: Long way of the diamond. Measured as above.
S.W.O.: Short way of the opening. Measured from the inside of the bounds.
L.W.O.: Long way of the opening. Measured as above.
Strand Thickness: Gauge thickness of the material before expanding.
Strands Width: Thickness of the material in one strand.

Please inquire about any sizes that may not be listed

*Weights is in pounds per square foot *

Welded Bar Grating – 288" x 36" – Primed Black

<u>Bearing Bars In.</u>	<u>Weight</u>
1/8" x 1" Primed Smooth Floor Grating	5.15
3/16" x 1" Primed Smooth Floor Grating	7.35
3/16" x 1-1/4" Primed Smooth Floor Grating	9.03
3/16" x 1-1/2" Primed Smooth Floor Grating	10.94
3/16" x 1" Primed Serrated Floor Grating	7.35
3/16" x 1-1/4" Primed Serrated Floor Grating	9.03
3/16" x 1-1/2" Primed Serrated Floor Grating	10.94
1/4" x 2" Primed Smooth Floor Grating	18.41

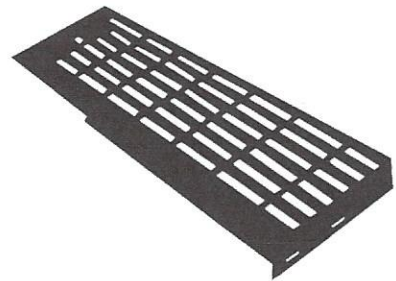
Type: 19-4 (Standard)

Cross Bars 4 ins. C. to C.

Bearing Bars 1-3/16 ins. C. to C.

Weight is in pounds per square foot

<u>Welded Stair Treads</u>	<u>Weight</u>
36" x 9-3/4" x 1-1/4" Stairs	24.9
48" x 9-3/4" x 1-1/4" Stairs	32.0
36" x 11 x 1-1/4" Stairs	27.72
1-1/4" x .125 Stair Nosing	1.23



Weight is per step

Please inquire about any sizes that may not be listed.

Grating and steps are available in both smooth and serrated

Diamond Grip Strut – 144" – Galvanized Finish

<u>Sizes</u>	<u>Weight</u>
4-3/4" x 1-1/2" x 14ga	2.30
7" x 2" x 12ga	4.40
9-1/2" x 2" x 12ga	5.10
11-3/4" x 2" x 12ga	6.10
18-3/4" x 2" x 12ga	8.50
18-3/4" x 3" x 12ga	9.30
24" x 2" x 12ga	10.80
1-5/8" 3-Hole Ladder Rung	1.30

We also offer grip strut in aluminum

Please inquire about any sizes that may not be listed.

*Weight is in pounds per foot *

Welded Steel Pipe – A53/21ft Lengths

<u>Size</u>	<u>OD</u>	<u>Wall Thickness</u>	<u>Weight</u>	<u>Wall Thickness</u>	<u>Weight</u>
		Sch 40	Sch 40	Sch 80	Sch 80
1/4"	0.540	0.088	0.4248	0.119	0.5351
3/8"	0.675	0.091	0.5676		
1/2"	0.840	0.109	0.8510	0.147	1.09
3/4"	1.050	0.113	1.1310	0.154	1.474
1"	1.315	0.133	1.6790	0.179	2.172
1-1/4"	1.660	0.140	2.2730	0.191	2.997
1-1/2"	1.900	0.145	2.7180	0.200	3.631
2"	2.375	0.154	3.6530	0.218	5.022
2-1/2"	2.875	0.203	5.7930	0.276	7.661
3"	3.500	0.216	7.5760	0.300	10.250
4"	4.500	0.237	10.790	0.337	14.980
5"	5.563	0.258	14.620	0.375	20.780
6"	6.625	0.280	18.970	0.432	28.570
8"	8.625	0.322	28.550		
10"	10.75	0.365	40.480		
12"	12.75	0.406	53.530		
14"	14.00	0.437	63.370		
16"	16.00	0.500	82.770		
20"	20.00	0.593	122.90		
24"	24.00	0.687	171.20		

Wall Thickness in inches, OD in inches

A106 also available

Please inquire about any sizes that may not be listed.

*Weight is in pounds per foot *

Welded Steel Pipe – A106/21ft lengths

<u>Pipe Size</u>	<u>Wall Thickness</u>	<u>Weight</u>
	Sch 160	Sch 160
1"	0.250	2.844
1-1/4"	0.250	3.765
1-1/2"	0.281	4.859
2"	0.343	7.444
2-1/2"	0.375	10.010
3"	0.437	14.320
4"	0.531	22.510

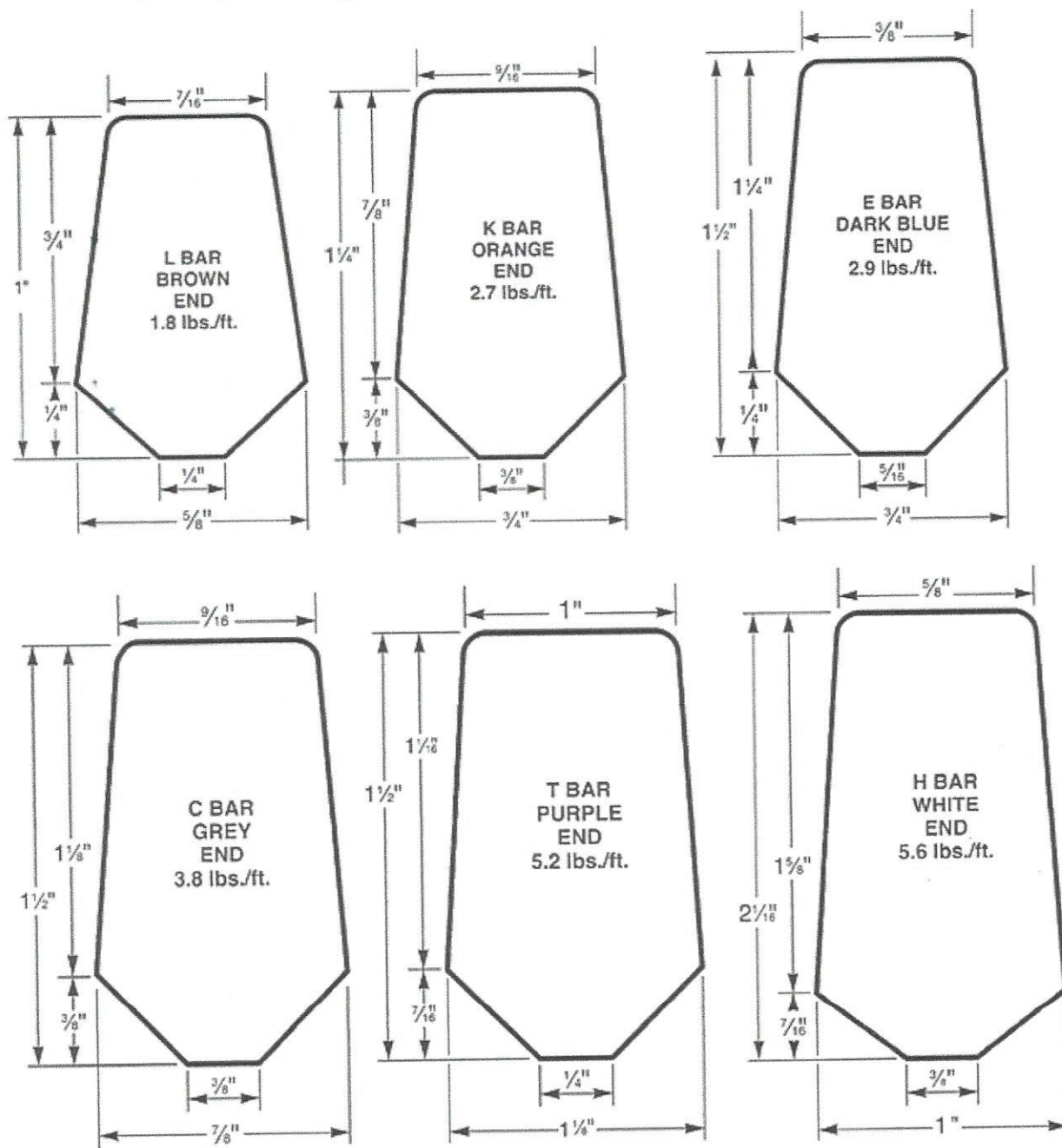
Piling Pipe

We offer a very large inventory of piling pipe at competitive prices
Sizes 4" to 24"

Please inquire about any sizes that may not be listed.

*Weight is in pounds per foot *

Grouser Bar – High Carbon – Heat Treated – 10ft lengths



Please inquire about any sizes that may not be listed.

Ask about our custom ice lugs!

Precut Pile Caps

<u>Size"</u>	<u>Weight</u>
8" x 8" x 1/4"	4.54
10" x 10" x 1/4"	7.08
12" x 12" x 1/4"	10.41
8" x 8" x 3/8"	8.90
10" x 10" x 3/8"	10.63
12" x 12" x 3/8"	15.31
14" x 14" x 3/8"	22.76
6" x 6" x 1/2"	5.1
8" x 8" x 1/2"	9.08
10" x 10" x 1/2"	14.18
12" x 12" x 1/2"	20.42
14" x 14" x 1/2"	27.80
16" x 16" x 1/2"	36.31
12" x 12" x 5/8"	25.24
14" x 14" x 5/8"	36.60
8" x 8" x 3/4"	13.60
10" x 10" x 3/4"	25.00
12" x 12" x 3/4"	30.63
14" x 14" x 3/4"	45.52
16" x 16" x 3/4"	54.45
18" x 18" x 3/4"	68.92
8" x 8" x 1"	18.13
10" x 10" x 1"	28.30
12" x 12" x 1"	40.84
14" x 14" x 1"	60.70
16" x 16" x 1"	72.60
18" x 18" x 1"	91.89

Please inquire about any sizes that may not be listed.

Weight is per pile cap

Aluminum

We offer a wide variety of aluminum alloys. For ANY aluminum needs, please give us a call.

Aluminum Flat Bar

<u>Sizes</u>	<u>Weight</u>
1/8" x 1"	.151
1/8" x 1-1/2"	.22
1/8" x 2"	.295
1/8" x 3"	.441
1/8" x 4"	.588
3/16" x 1	.221
3/16" x 2	.442
3/16" x 3	.663
3/16" x 4	.883
1/4" x 1-1/4"	.368
1/4" x 1-1/2"	.442
1/4" x 2"	.589
1/4" x 3"	.883
1/4" x 4"	1.18
1/4" x 6"	1.80
3/8" x 1-1/2"	.661
3/8" x 2"	.882
3/8" x 3"	1.35
3/8" x 4"	1.75
1/2" x 3"	1.76
1/2" x 4"	2.35

Aluminum Pipe

<u>Alum Pipe SZ</u>	<u>Weight (SCH 40)</u>	<u>Weight (SCH 80)</u>
1/2"	.29	.38
3/4"	.39	.56
1"	.58	.75
1-1/4"	.79	1.04
1-1/2"	.94	1.26
2"	1.26	1.737
2-1/2"	2.01	2.668
3"	2.62	3.55
4"	3.756	5.183
5"	5.1	7.16

Aluminum Angle

3/4" x 3/4" x 1/8"	.207
1" x 1" x 1/8"	.28
1-1/4" x 1-1/4" x 1/8"	.34
1-1/2" x 1-1/2" x 1/8"	.42
2" x 2" x 1/8"	.566
1" x 1" x 3/16"	.40
1-1/4" x 1-1/4" x 3/16"	.510
1-1/2" x 1-1/2" x 3/16"	.62
2" x 2" x 3/16"	.85
3" x 2" x 3/16"	1.07
3" x 3" x 3/16"	1.313
1" X 1" X 1/4"	.51
1-1/2" X 1-1/2" X 1/4"	.81
2" X 2" X 1/4"	1.11
2-1/2" X 2-1/2 X 1/4"	1.40
3" X 2" X 1/4"	1.40
3" X 3" X 1/4"	1.68
4" X 4" X 1/4"	2.28
3" X 3" X 3/8"	2.47

Aluminum Grip Strut

<u>Sizes</u>	<u>Weight</u>
4-3/4" x 2" x 0.80	0.93
7" x 2" x 0.80	1.20
9-1/2" x 2" x 0.80	1.40
10" x 2" x 0.80	1.80
11-3/4" x 2" x 0.80	1.60
7" x 2" x .125 Roundhole	1.60

Aluminum Mesh and Bar Grating

<u>Sizes</u>	<u>Weight</u>
3/4" x 9ga Flat Mesh	.30
1/8" x 1" Smooth Grating	1.92
3/16" x 1" Serrated Grating	2.72
3/16" x 1-1/4" Serrated Grating	3.31
3/4" x 12" Vented Decking	.88
1" x 12" Vented Decking	1.17

Aluminum Plate and Checkered Plate(4ftx8ft)(5ftx10ft)

<u>Plate Thickness</u>	<u>Weight</u>
14ga	.92
1/8"	1.80
3/16"	2.70
1/4"	3.60
3/8"	5.40
1/2"	7.20

<u>Checkered Plate Thickness</u>	<u>Weight</u>
14ga	.983
1/8"	1.90
3/16"	2.80
1/4"	3.70

Aluminum Pipe

<u>Alum Pipe SZ</u>	<u>Weight (SCH 40)</u>	<u>Weight (SCH 80)</u>
1/2"	.29	.38
3/4"	.39	.56
1"	.58	.75
1-1/4"	.79	1.04
1-1/2"	.94	1.26
2"	1.26	1.737
2-1/2"	2.01	2.668
3"	2.62	3.55
4"	3.756	5.183
5"	5.1	7.16

Aluminum Angle

3/4" x 3/4" x 1/8"	.207
1" x 1" x 1/8"	.28
1-1/4" x 1-1/4" x 1/8"	.34
1-1/2" x 1-1/2" x 1/8"	.42
2" x 2" x 1/8"	.566
1" x 1" x 3/16"	.40
1-1/4" x 1-1/4" x 3/16"	.510
1-1/2" x 1-1/2" x 3/16"	.62
2" x 2" x 3/16"	.85
3" x 2" x 3/16"	1.07
3" x 3" x 3/16"	1.313
1" X 1" X 1/4"	.51
1-1/2" X 1-1/2" X 1/4"	.81
2" X 2" X 1/4"	1.11
2-1/2" X 2-1/2 X 1/4"	1.40
3" X 2" X 1/4"	1.40
3" X 3" X 1/4"	1.68
4" X 4" X 1/4"	2.28
3" X 3" X 3/8"	2.47

Aluminum Square and Rectangle Tubing

<u>HSA Sizes</u>	<u>Weight</u>
3/4" x 3/4" x .120	.357
1" x 1" x .120	.485
1-1/4" x 1-1/4" x .120	.640
1-1/2" x 1-1/2" x .120	.781
2" x 1" x .120	.809
2" x 2" x .120	1.064
3" X 1" X .120	1.065
3" x 2" x .120	1.397
1-1/2" x 1-1/2" x .187	1.00
2" x 2" x .187	1.42
2-1/2" X 2-1/2" X .187	1.995
1-1/2" X 1-1/2" X .250	1.47
2" x 2" x .250	1.99
3" x 2" x .250	2.507
3" X 3" X .250	3.254
4" x 2" x .250	3.198
4" x 4" x .250	4.307

<u>Aluminum Round Bar</u>	<u>Weight</u>	<u>Aluminum Square Bar</u>	<u>Weight</u>
3/8"	0.13	1/2"	2.92
1/2"	0.23	3/4"	.662
5/8"	0.36	1"	1.18
3/4"	0.52	1-1/2"	2.65
7/8"	.708	2"	4.7
1"	0.92		
1-1/4"	1.44		
1-1/2"	2.07		
1-3/4"	2.830		

*Some stainless stock available *

GEOMETRIC FORMULAS

CIRCLE

AREA = Square of Diameter x .7854 or Square of Radius x 3.1416

CIRCUMFERENCE = Diameter x 3.1416

DIAMETER = Circumference x 3.1416

Doubling diameter increase area four times; tripling increase area nine times.

SQUARE

AREA = Square of Side

DIAGONAL = Side x 1.4142

SIDE = Diagonal x .7071

SQUARE INSCRIBED IN CIRCLE

SIDE OF SQUARE = Diameter of Circle x .7071 or Circumference of Circle x .2251

DIAMETER OF CIRCLE = Side of Square x 1.4142

CIRCUMFERENCE OF CIRCLE = Side of Square x 4.4429

SQUARE INSCRIBED IN CIRCLE OF EQUAL AREA

SIDE OF SQUARE = Diameter of Circle x .8862

DIAMETER OF CIRCLE = Side of Square x 1.128

CIRCUMFERENCE OF CIRCLE = Side of Square x 3.545

RECTANGLE

AREA = Length x Width

DIAGONAL = Square root of sum of squares of width and Length

TRIANGLE

AREA = Base x of Perpendicular Height

180° = Sum of all inside angles

HEXAGON

AREA = Square of Distance across Flats x .577 or Square of Side x 2.598

SIDE = of Diagonal x .383 or Distance Flats x .577

DIAGONAL = Distance across flats x 1.155 or side x 2

OCTAGON

AREA = Square of Distance across flats x .828

SIDE = Diagonal x .388 or Distance across flats x .414

DIAGONAL = Distance across flats x 1.082 or Side x 2.613

SPHERE

AREA OF SURFACE = Square of Diameter x 3.1416

VOLUME = Cube of Side DIAGONAL x .5236

CUBE

AREA OF SURFACE = Square of Side x 6

VOLUME = Cube of Side

DIAGONAL = Side x 1.732

CYLINDER

AREA OF CURVED SURFACE = Diameter x Length x 3.1416

VOLUME = Square of Diameter x Length x .7854

CONE

AREA OF CURVED SURFACE = Diameter of Base x Slant Height x 1.5708

VOLUME = Diameter of Base Squared x Perpendicular Height

PYRAMID

LATERAL SURFACE AREA (not incl. base) = Perimeter of Base x 1/2 Slant Height
VOLUME = Area of Base x 1/3 Perpendicular Height

TUBING OR PIPE

WEIGHT PER LINEAL FOOT = Outside Diameter minus Wall Thickness multiplied by wall thickness x 10.68

CONVERSION FACTORS

Conversion of fractions of an inch
to decimal equivalent to millimeters

Inches	Decimal	mm	Inches	Decimal	mm
1/64	0.015625	0.3969	33/64	0.515625	13.0969
1/32	0.03125	0.7938	17/32	0.53125	13.4938
3/64	0.046875	1.1906	35/64	0.546875	13.8906
1/16	0.0625	1.5875	9/16	0.5625	14.2875
5/64	0.078125	1.9844	37/64	0.578125	14.6844
3/32	0.09375	2.3812	19/32	0.59375	15.0812
7/64	0.109375	2.7781	39/64	0.609375	15.4781
1/8	0.125	3.175	5/8	0.625	15.875
9/64	0.140625	3.5719	41/64	0.640625	16.2719
5/32	0.15625	3.9687	21/32	0.65625	16.6688
11/64	0.171875	4.3656	43/64	0.671875	17.0656
3/16	0.1875	4.7625	11/16	0.6875	17.4625
13/64	0.203125	5.1594	45/64	0.703125	17.8594
7/32	0.21875	5.5562	23/32	0.71875	18.2562
15/64	0.234375	5.9531	47/64	0.734375	18.6531
1/4	0.25	6.35	3/4	0.75	19.05
17/64	0.265625	6.7469	49/64	0.765625	19.4469
9/32	0.28125	7.1438	25/32	0.78125	19.8438
19/64	0.296875	7.5406	51/64	0.796875	20.2406
5/16	0.3125	7.9375	13/16	0.8125	20.6375
21/64	0.328125	8.3344	53/64	0.828125	21.0344
11/32	0.34375	8.7312	27/32	0.84375	21.4312
23/64	0.359375	9.1281	55/64	0.859375	21.8281
3/8	0.375	9.525	7/8	0.875	22.225
25/64	0.390625	9.9219	57/64	0.890625	22.6219
13/32	0.40625	10.3188	29/32	0.90625	23.0188
27/64	0.421875	10.7156	59/64	0.921875	23.4156
7/16	0.4375	11.1125	15/16	0.9375	23.8125
29/64	0.453125	11.5094	61/64	0.953125	24.2094
15/32	0.46875	11.9062	31/32	0.96875	24.6062
31/64	0.484375	12.3031	63/64	0.984375	25.0031
1/2	0.5	12.7	1	1	25.4