STEEL SERVICES & SUPPLIES, INC.

SINCE 1966

REINFORCING THE FUTURE

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REINFORCING THE FUTURE

Steel Services & Supplies, Inc., has provided the rebar construction industry in Puerto Rico and the Caribbean, with a fabrication plant of rebars (cut and bent) being one of the most advanced in P. R. and the U.S.

Under the visionary direction of Francisco Garcia Alonso, Don Paco, who himself counts with a vast experience (50 years) in the steel industry, Steel Services & Supplies, Inc., has become the undeniable leader of products and services in the construction industry.

From our early stages we have strived our utmost passion to convert challenges into opportunities and realities. Having seen and experienced the challenges in a continuing changing construction industry, Steel Services & Supplies, Inc., has restructured all of its departments to deal closely with our customer's requirements and needs, to facilitate the delivery of materials to the respective job sites at the lowest possible costs, adapting new strategies for a better and efficient reduction of costs. These innovative strategies have contributed significantly to the success that our company has achieved, being a big part of the infrastructure of the island projects, such as bridges, highways, tunnels, pharmaceuticals, monuments, commercial and residential buildings.

We count with the largest inventory in Puerto Rico of rebars, structural steel, and other related construction material such as wood, wire mesh, panels and others.

Steel Services & Supplies, Inc., continues with a firm determination to keep on servicing the construction industry and Puerto Rico's progress, extending our products, prices, quality and excellent service throughout the Caribbean.

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Organizational Philosophy

In Steel Services & Supplies, more than 70 employees work with an extraordinary spirit of loyalty and integrity, resulting in the highest levels of workmanship towards the firm, and the highest customer satisfaction.

Our policy of quality is to benefit continuously our clients and others, for which we certify our process of production with international standards in the fabrication of both rebar and structural steel.

We are committed to comply with this policy under the continuous evaluation of our customers, by keeping a strict control and supervision of the projects that will guarantee the quality of the services rendered.

Our Mission

To be a leader in our market with the best strategies in competitiveness and growth, becoming a true business partner for our customers, and by offering them the products and services of the highest quality and excellence, with the largest and most complete inventory.

Reinforcing Steel

Reinforcing Steel

Reinforcing Bars

Epoxy Coated Bars

Weldable Bars

Rebar Rings

Rebar Accessories

Reinforcing Steel

Rebar

We import rebar in coils and straight in different mill lengths from countries throughout the world. Besides having the most competitive prices in the market, we are proud to assure that all quality requirements from the ASTM (American Standard Testing Material), ACI (American Concrete Institute) and building codes and regulations are met.

We have the most complete inventory of reinforcing steel in Puerto Rico, including:
-Foreign and Domestic ASTM A-615 Grade 60
-Weldable ASTM A-706 Grade 60
-Coils
-Epoxy Coated ASTM A-775

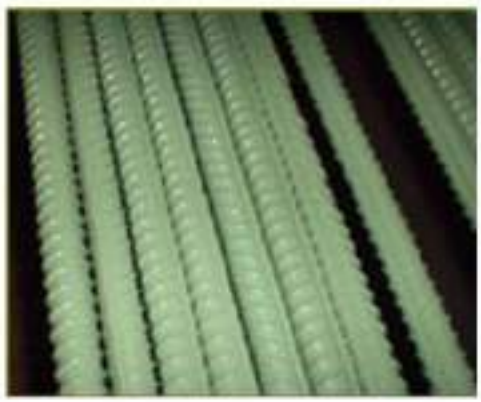
We provide our customers complete solutions, including supervision and installation at the job site. Thus, guaranteeing our focus in safety, the experience and quality execution.

ASTM Standard - Reinforcing Bars

	Nominal Dimensions			
Bar Size Designation	Area ($in.^2$)	Weight (lb/ft)	Diameter (in.)	Aprox. (mm)
#3	0.11	0.376	0.375	10
#4	0.20	0.668	0.500	13
#5	0.31	1.043	0.625	16
#6	0.44	1.502	0.750	19
#7	0.60	2.044	0.875	22
#8	0.79	2.670	1.000	25
#9	1.00	3.400	1.128	29
#10	1.27	4.303	1.270	32
#11	1.56	5.313	1.410	36
#14	2.25	7.650	1.693	43
#18	4.00	13.60	2.257	57

Reinforcing Steel

Epoxy Coated Rebar



Epoxy coating on rebar is designed to act as a chemical barrier, isolating the steel from the three primary elements needed for corrosion to occur: oxygen, moisture, and chloride ions. The coating also serves as an electrical insulator for the steel and minimizes the flow of corrosion current. The most widely used ASTM standards covering epoxy-coated rebar are ASTM A-775, "Standard Specification for Epoxy-Coated Steel Reinforcing Bars"

The use of epoxy:
Coated rebar is commonly used for concrete applications in bridges and roadways, marine applications, parking structures, concrete repairs and structures challenged with corrosion from deicing chemicals, continuous moisture exposure and/or salts.

Epoxy-coated
This reinforced rebar provides corrosion resistance that extends the service life of concrete structures.

Reinforcing Steel

Weldable Rebar

Weldable Bars that complies with ASTM A-706, allows welding without weakening. Because it is weldable, it allows welding-on-site without laboratory conditions. You can connect structurally to steel sections or substitute tying wire to secure in place, facilitating the handling of steel when working with pre-welded concrete reinforcement.

Applications:
Reinforcement of concrete structures, welded anchors for mixed structures (concrete-steel), pre-welded concrete reinforcement assembly.

Reinforcing Steel

Rebar Rings

Rectangular Stirrup
3 1/2"x 6"
3 1/2"x 8"
3 1/2"x 9"
3 1/2"x 12"
4"x 8"
5"x 9"
5"x 11"
Call for available dimensions

Square Stirrup
8"x 8"
10"x 10"

Round Stirrup
8" diameter
10" diameter
12" diameter
Call for available dimensions

Rebar Hook for Masonry
Variable sizes

Straight Rebar
Available in No. 3, No. 4, and No. 5 at 10'-0" long

Specifications: ASTM A-615 Fy=60,000 psi

Sizes are not limited to those shown above.

We can fabricate any size as required.

Reinforcing Steel
Accessories

Jab Chair
Plastic
Sizes: 1 1/2", 2 1/2", 3 1/4"

EZ Chair
Plastic
Sizes: 1/4" @ 6"

Mesh Chair
Plastic

X - Chair
Plastic
3/4", 1 1/2", 2"

Bar - Chair
Plastic
Sizes: 2", 2 1/4"

Screed Chair
2 pieces, Plastic

Locking Wheel
Plastic
Sizes: 1 1/2"

Space Wheel
Plastic
Sizes: 1 1/2", 2 1/2"

Snap on Chair
Plastic
Sizes: 1 1/2", 2 1/2"

Slab Bolster
Plastic
Sizes: 1", 1 1/2", 2"

Metal Chairs
Sizes: 1 1/4", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2", 2 3/4", 3", 5 3/4", 6"

Screed Chair
Metal

Safety Caps
Plastic

Epoxy Coated Wire
Black Annealed Wire
Ga.16

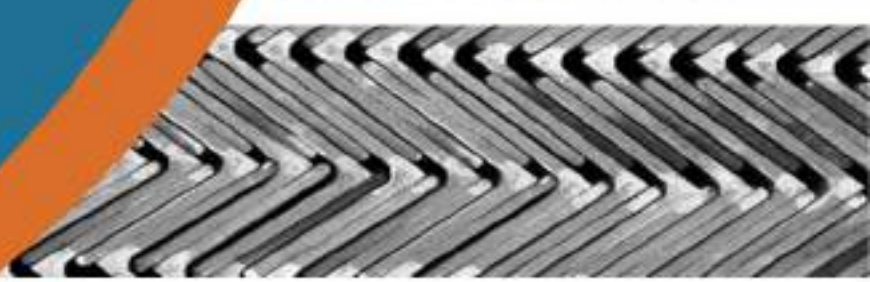
Loop Tie Wire
Sizes 4 1/2" & 6"

Tie Wire Twister

Mechanical Couplers
Sizes: From rebar #4 to #18

Concrete Cover (Limber)
Concrete
Sizes: 3/4", 1", 1 1/2",
2"x3" , 3"x3"

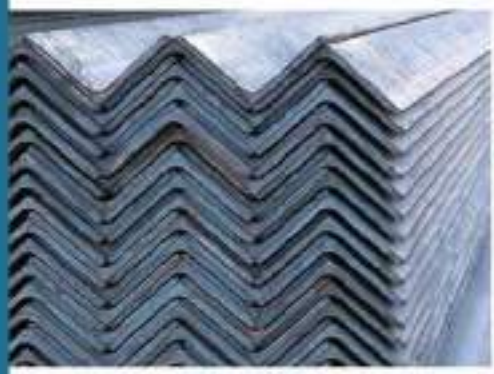
STRUCTURAL STEEL



Structural Steel

Steel Angles
Round Bars
Square Bars
Flat Bars
Channels
I Beams (S)
WF Beams
Welding Electrodes
Rectangular Tubing
Square Tubing
Pipes
Isolite Pipes
Steel Sheets
Steel Plates
Floor Plates
Expanded Metal
EM- Mosquitoes
Metal Gratings
Louver Mesh
Gratings
Expanded Gratings
Fiber Glass Gratings
Perforated Metal

Structural
STEEL ANGLES



The ASTM A-36 Grade 36 and 50 Steel Angle with radius corners is used widely for structural applications, general fabrication, and repairs. It cuts, welds, forms, and machines easily. This product is available in carbon steel and galvanized.

The larger the metal angle, the more stress and weight it can bear. When angles are bolted or welded to the corner of anything being constructed, this increases its ability to bear stress and enhances the longevity of the structure. A common use of steel angles is as bracket support for shelving, usually attached to the wall at a perpendicular angle. Steel angles are a basic component of nearly every construction project. From buildings to factory machinery to beds, steel angles are used to provide a strong framework.

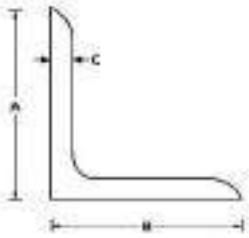
Structural Steel Shapes Conform to the ASTM
(American Society for Testing and Materials)

MECHANICHAL PROPERTIES

Yield Point	36,000 psi for Grade 36, 50,000 psi for Grade 50
Tensile Strength	58 - 80,000 psi
Elongation	23% 2" minnimun for plates and bars, 21% on 2" minnimun for shapes

HOW TO MEASURE:

Leg (A) x Leg (B) x Thickness (C) x Length (D)



Structural
ANGLE SIZES

Angles- Bar Size

Size Inches A		B		C	Estimated Weight Lbs. Per Foot	20 Ft. Length	30 Ft. Length	40 Ft. Length
1/2	X	1/2	X	1/8	.38	7.6	11.4	-
5/8	X	5/8	X	1/8	.48	9.6	14.4	-
3/4	X	3/4	X	1/8	.59	11.8	17.7	-
7/8	X	7/8	X	1/8	.70	14.0	21.0	-
1	X	5/8	X	1/8	.64	12.8	19.2	-
1	X	1	X	1/8	.80	16.0	24.0	32.0
	X		X	3/16	1.16	23.2	34.8	46.4
	X		X	1/4	1.49	29.8	44.7	59.6
1 1/4	X	1 1/4	X	1/8	1.01	20.2	30.3	40.4
	X		X	3/16	1.48	29.6	44.4	59.2
	X		X	1/4	1.92	38.4	57.6	76.8
1 3/8	X	7/8	X	1/8	.91	18.2	27.3	36.4
1 1/2	X	1 1/2	X	1/8	1.23	24.6	36.9	49.2
	X		X	3/16	1.80	36.0	54.0	72.0
	X		X	1/4	2.34	46.8	70.2	93.6
1 3/4	X	1 3/4	X	1/8	1.44	28.8	43.2	57.6
	X		X	3/16	2.12	42.4	63.6	84.8
	X		X	1/4	2.77	55.4	83.1	110.8
2	X	1 1/4	X	3/16	1.96	39.2	58.8	78.4
2	X	1 1/2	X	1/8	1.44	28.8	43.2	57.6
	X		X	3/16	2.12	42.4	63.6	84.8
	X		X	1/4	2.77	55.4	83.1	110.8
2	X	2	X	1/8	1.65	33.0	49.5	66.0
	X		X	3/16	2.44	48.8	73.2	97.6
	X		X	1/4	3.19	63.8	95.7	127.6
	X		X	5/16	3.92	78.4	117.6	156.8
	X		X	3/8	4.70	94.0	141.0	188.0
	X		X	1/2	6.00	120.0	180.0	240.0
2 1/2	X	1 1/2	X	3/16	2.44	48.8	73.2	97.6
	X		X	1/4	3.19	63.8	95.7	127.6
	X		X	5/16	3.92	78.4	117.6	156.8
2 1/2	X	2	X	3/16	2.75	55.0	82.0	110.0
	X		X	1/4	3.62	72.4	108.6	144.8
	X		X	5/16	4.50	90.0	135.0	180.0
	X		X	3/8	5.30	106.0	159.0	212.0
2 1/2	X	2 1/2	X	3/16	3.07	61.4	92.1	122.8
	X		X	1/4	4.10	82.0	123.0	164.0
	X		X	5/16	5.00	100.0	150.0	200.0
	X		X	3/8	5.90	118.0	177.0	236.0
	X		X	1/2	7.70	154.0	231.0	308.0

Angles- Structural Sizes

3	X	2	X	3/16	3.07	61	92	123
	X		X	1/4	4.1	82	123	164
	X		X	5/16	5.0	100	150	200
	X		X	3/8	5.9	118	177	236
	X		X	1/2	7.7	154	231	308
3	X	2 1/2	X	3/16	3.39	68	102	136
	X		X	1/4	4.5	90	135	180
	X		X	5/16	5.6	112	168	224
	X		X	3/8	6.6	132	198	264
	X		X	1/2	8.5	170	255	340
3	X	3	X	3/16	3.71	74	111	148
	X		X	1/4	4.9	98	147	196
	X		X	5/16	6.1	122	183	244
	X		X	3/8	7.2	144	216	288
	X		X	1/2	9.4	188	282	376
3 1/2	X	3	X	1/4	5.4	108	162	216
	X		X	5/16	6.6	132	198	264
	X		X	3/8	7.9	158	237	316
	X		X	1/2	10.2	204	306	408
3 1/2	X	3 1/2	X	1/4	5.8	116	174	232
	X		X	5/16	7.2	144	216	288
	X		X	3/8	8.5	170	255	340
	X		X	7/16	9.8	196	294	392
	X		X	1/2	11.1	222	333	444
4	X	3	X	1/4	5.8	116	174	232
	X		X	5/16	7.2	144	216	288
	X		X	3/8	8.5	170	255	340
	X		X	7/16	9.8	196	294	392
	X		X	1/2	11.1	222	333	444
	X		X	5/8	13.6	272	408	544
4	X	3 1/2	X	1/4	6.2	124	198	248

Angles- Structural Size

Size In Inches A		B		C	Estimated Weight Lbs. Per Foot	20 Ft Length	30 Ft Length	40 Ft Length
	X		X	5/16	7.7	154	231	308
	X		X	3/8	9.1	182	273	364
	X		X	1/2	11.9	238	357	476
	X		X	5/8	14.7	294	441	588
4	X	4	X	1/4	6.6	132	198	264
	X		X	5/16	8.2	164	246	328
	X		X	3/8	9.8	196	294	392
	X		X	7/16	11.3	226	339	452
	X		X	1/2	12.8	256	384	512
	X		X	5/8	15.7	314	471	628
	X		X	3/4	18.5	370	555	740
5	X	3	X	1/4	6.6	132	198	264
	X		X	5/16	8.2	164	246	328
	X		X	3/8	9.8	196	294	392
	X		X	1/2	12.8	256	384	512
5	X	3 1/2	X	1/4	7.0	140	210	280
	X		X	5/16	8.7	174	261	348
	X		X	3/8	10.4	208	312	416
	X		X	1/2	13.6	272	408	544
	X		X	5/8	16.8	336	504	672
	X		X	3/4	19.8	396	594	792
5	X	5	X	5/16	10.3	206	309	412
	X		X	3/8	12.3	246	369	492
	X		X	7/16	14.3	286	429	572
	X		X	1/2	16.2	324	486	648
	X		X	5/8	20.0	400	600	800
	X		X	3/4	23.6	472	708	944
	X		X	7/8	27.2	544	816	1088
6	X	3 1/2	X	1/4	7.9	158	237	316
	X		X	5/16	9.8	196	294	392
	X		X	3/8	11.7	234	351	468
	X		X	1/2	15.3	306	459	612
6	X	4	X	5/16	10.3	206	309	412
	X		X	3/8	12.3	246	369	492
	X		X	7/16	14.3	286	429	572
	X		X	1/2	16.2	324	486	648
	X		X	5/8	20.0	400	600	800
	X		X	3/4	23.6	472	708	944
	X		X	7/8	27.7	544	816	1088
6	X	6	X	5/16	12.5	250	375	500
	X		X	3/8	14.9	298	447	596
	X		X	7/16	17.2	344	516	688
	X		X	1/2	19.6	392	588	784
	X		X	5/8	24.2	484	726	968
	X		X	3/4	28.7	574	861	1148
	X		X	7/8	33.1	662	993	1324
	X		X	1	37.4	748	1122	1496
7	X	4	X	3/8	13.6	272	408	544
	X		X	7/16	15.8	316	474	632
	X		X	1/2	17.9	358	537	716
	X		X	5/8	22.1	442	663	884
	X		X	3/4	26.2	524	786	1048
	X		X	7/8	30.2	604	906	1208
8	X	4	X	7/16	17.2	344	516	688
	X		X	1/2	19.6	392	588	784
	X		X	5/8	24.2	484	726	968
	X		X	3/4	28.7	574	861	1148
	X		X	7/8	33.1	662	993	1324
	X		X	1	37.4	748	1122	1496
8	X	6	X	7/16	20.2	404	606	808
	X		X	1/2	23.0	460	690	920
	X		X	5/8	28.5	570	855	1140
	X		X	1/4	33.8	676	1014	1352
	X		X	7/8	39.1	782	1071	1564
	X		X	1	44.2	884	1326	1768
8	X	8	X	1/2	26.4	528	792	1056
	X		X	5/8	32.7	654	981	1308
	X		X	3/4	38.9	778	1167	1556
	X		X	7/8	45.0	900	1350	1800
	X		X	1	51.0	1020	1530	2040
	X		X	1 1/8	56.9	1138	1707	2276

*Some sizes available only by special orders

Structural
ROUND BARS



ASTM A-36 Grade 36 & 50 Steel Round Bar is a hot rolled, mild steel solid steel bar that is ideal for all general fabrication, manufacturing and repairs. Steel Rounds are widely used in industrial maintenance, agricultural implements, transportation equipment, ornamental iron work, fencing, artwork, etc. This steel shape is easy to weld, cut, form and machine with the proper equipment and knowledge. Steel Round Bar is used in framework, braces, supports, shafts, axles, and more. This product is available in carbon steel and galvanized.

Structural Steel Shapes Conform to the ASTM (American Society for Testing and Materials)

MECHANICAL PROPERTIES:

Yield Point	36,000 psi
Tensile Strength	58-80,000 psi
Elongation	23% in 2" minnimun for plates and bars, 21% on 2"minnimun for shapes

AVAILABLE STOCK SIZES:
20ft, or Cut to Size
Stock lengths may vary +/- 1/4"

HOW TO MEASURE:
Thickness (A) x Width (B) x Length

Hot Rolled Round Bar
Standard length 20'

Size in Inches	Estimated Weight Lbs.		Size in Inches	Estimated Weight Lbs.	
	Per foot	20 ft. Bar		Per foot	20 ft. Bar
1/4	.167	3.34	1 1/2	6.01	120.20
5/16	.261	5.22	1 5/8	7.05	141.00
*3/8	.376	7.52	1 3/4	8.18	163.60
7/16	.511	10.22+	1 7/8	9.39	187.80
*1/2	.668	13.36	2	10.68	213.60
9/16	.845	16.90	2 1/8	12.06	241.20
*5/8	1.04	20.86	2 1/4	13.52	270.40
.680	1.26	25.20+	2 3/8	15.06	301.20
*3/4	1.50	30.04	2 1/2	16.69	333.80
25/32	1.63	32.60+	2 5/8	18.40	368.00
*7/8	2.04	40.88	2 3/4	20.20	404.00
29/32	2.19	43.80	2 7/8	22.07	441.40
*1	2.67	53.40	3	24.03	480.60
*1 1/8	3.38	67.58	3 1/2	32.71	654.20
1.145	3.47	69.40+	4	42.73	854.60
1 1/4	4.17	83.46	5	66.76	1335.20
1 3/8	5.05	101.00	6	96.13	1922.60

*Some Sizes available only by special order.

Structural
SQUARE BARS

ASTM A-36 Steel Square Bar is a hot rolled, mild steel solid steel bar with radiuscorners that is ideal for all structural applications, general fabrication, manufacturing and repairs. Steel Squares are widely used in industrial maintenance, agricultural implements, transportation equipment, ornamental iron work, fencing, artwork, etc. This steel shape is easy to weld, cut, form and machine with the proper equipment and knowledge. Steel Services stocks hundreds of sizes of steel square at wholesale prices in small or large quantity. This product is available in carbon steel and galvanized.

Structural Steel Shapes Conform to the ASTM (American Society for Testing and Materials)

MECHANICAL PROPERTIES:

Yield Point	36,000 psi
Tensile Strength	58-80,000 psi
Elongation	23% on 2" minnimun for plates and bars, 21% on 2" minnimun for shapes

AVAILABLE STOCK SIZES:

20ft, or Cut to Size
Stock lengths may vary +/- 1/4"

HOW TO MEASURE:

Thickness (A) x Width (B) x Length

Hot Rolled Squares
Standard length 20'

Size in Inches	Estimated Weight Lbs. Per foot	20 ft. Bar	Size in Inches	Estimated Weight Lbs. Per foot	20 ft. Bar
3/8	.478	9.56	1 1/4	5.31	106.30
1/2	.850	17.00	1 3/8	6.43	128.60
5/8	1.33	26.56	1 1/2	7.65	153.00
3/4	1.91	38.26	1 3/4	10.41	208.20
7/8	2.60	52.06			
			2	13.60	272.00
1	3.40	68.00	2 1/4	17.21	344.20
1 1/8	4.30	86.06	2 1/2	21.25	425.00

*Some sizes available only by special orders.

Structural
FLAT BARS



Hot Rolled Steel Flat is widely used for all general fabrication and repairs in industrial maintenance, agricultural implements, transportation equipment, etc. This product is available in carbon steel and galvanized.

Specifications: ASTM A-36 (1/4" & over)
AKA: HR steel flat bar, steel strip, steel rectangle
Applications: frame work, braces, supports, plates, straps, etc.
Workability: Easy to Weld, Cut, Form, and Machine

Structural Steel Shapes Conform to the ASTM
(American Society for Testing and Materials)

MECHANICHAL PROPERTIES:

Brinell	112
Tensile	48-80K
Yield	35-36K

HOW IS IT MEASURED?
Thickness (A) X Width (B) X Length

Available Stock Sizes:
20ft or Cut to Size
Stock lengths may vary +/- 1/4"

Structural
FLAT BAR SIZES

Hot Rolled Flat Bar

Size in inches		Estimated Weight Lbs. Per Foot	20 ft. Bar
1/4 x	3/8	.319	6.38
	1/2	.425	8.50
	5/8	.531	10.62
	3/4	.638	12.76
	7/8	.744	14.88
	1	.850	17.00
	1 1/8	.956	19.12
	1 1/4	1.063	21.26
	1 3/8	1.169	23.38
	1 1/2	1.275	25.50
	1 5/8	1.381	27.62
	1 3/4	1.488	29.76
	2	1.700	34.00
	2 1/4	1.913	38.26
	2 1/2	2.125	42.50
	2 3/4	2.338	46.76
	3	2.550	51.00
	3 1/4	2.763	55.26
	3 1/2	2.975	59.50
	3 3/4	3.188	63.76
	4	3.400	68.00
	4 1/2	3.825	76.50
	5	4.250	85.00
	5 1/2	4.675	93.50
	6	5.100	102.00
	7	5.950	119.00
	8	6.800	136.00
	9	7.660	153.20
	10	8.510	170.20
	11	9.360	187.20
	12	10.210	204.20
5/16 x	1/2	.531	10.62
	5/8	.664	13.28
	3/4	.797	15.94
	7/8	.930	18.60
	1	1.063	21.26
	1 1/8	1.195	23.90
	1 1/4	1.328	26.56
	1 3/8	1.461	29.22
	1 1/2	1.594	31.88
	1 3/4	1.859	37.18
	2	2.125	42.50
	2 1/4	2.391	47.82
	2 1/2	2.656	53.12
	2 3/4	2.922	58.44
	3	3.188	63.76
	3 1/2	3.719	74.38
	4	4.250	85.00
	4 1/2	4.781	95.62
	5	5.313	106.26
	5 1/2	5.844	116.88
	6	6.375	127.50
	7	7.438	148.766
	8	8.500	170.00
	9	9.570	191.40
	10	10.630	212.60
	11	11.700	234.00
	12	12.760	255.20
3/8 x	1/2	.638	12.76
	5/8	.797	15.94
	3/4	.956	19.12
	7/8	1.116	22.32
	1	1.276	25.52
	1 1/8	1.434	28.68
	1 1/4	1.594	31.88
	1 3/8	1.753	35.06
	1 1/2	1.913	38.26
	1 5/8	2.072	41.44
	1 3/4	2.231	44.62
	2	2.550	51.00
	2 1/4	2.869	57.38
	2 1/2	3.188	63.76
	2 3/4	3.506	70.12
	3	3.825	76.50
	3 1/4	4.144	82.88
	3 1/2	4.463	89.26
	4	5.100	102.00
	4 1/2	5.738	114.76
	5	6.375	127.50
	5 1/2	7.013	140.26
	6	7.650	153.00
	7	8.925	178.50
	8	10.200	204.00
	9	11.490	229.80
	10	12.770	255.40
	11	14.040	280.80
	12	15.320	306.40

Hot Rolled Flat Bar

Size in inches		Estimated Weight Lbs. Per Foot	20 ft. Bar
1/2 x	5/8	1.063	21.26
	3/4	1.275	25.50
	7/8	1.488	29.76
	1	1.700	34.00
	1 1/8	1.913	38.26
	1 1/4	2.125	42.50
	1 3/8	2.338	46.76
	1 1/2	2.550	51.00
	1 3/4	2.975	59.50
	2	3.400	68.00
	2 1/4	3.825	76.50
	2 1/2	4.250	85.00
	2 3/4	4.675	93.50
	3	5.100	102.00
	3 1/4	5.525	110.50
	3 1/2	5.950	119.00
	4	6.800	136.00
	4 1/2	7.650	153.00
	5	8.500	170.00
	5 1/2	9.350	187.00
	6	10.200	204.00
	7	11.900	238.00
	8	13.600	272.00
	9	15.320	306.40
	10	17.020	340.40
	11	18.720	374.40
	12	20.420	408.40
5/8 x	3/4	1.594	31.88
	7/8	1.859	37.18
	1	2.125	42.50
	1 1/8	2.391	47.82
	1 1/4	2.656	53.12
	1 1/2	3.188	63.76
	1 3/4	3.719	74.38
	2	4.250	85.00
	2 1/4	4.781	95.62
	2 1/2	5.313	106.26
	2 3/4	5.844	116.88
	3	6.375	127.50
	3 1/4	6.906	138.12
	3 1/2	7.438	148.76
	4	8.500	170.00
	4 1/2	9.563	191.26
	5	10.625	212.50
	5 1/2	11.688	233.76
	6	12.750	255.00
	7	14.875	297.50
	8	17.000	340.00
	9	19.150	383.00
	10	21.270	425.40
	11	23.400	468.00
	12	25.530	510.60
3/4 x	7/8	2.231	44.62
	1	2.550	51.00
	1 1/8	2.869	57.38
	1 1/4	3.188	63.76
	1 1/2	3.825	76.50
	1 3/4	4.463	89.26
	2	5.100	102.00
	2 1/4	5.738	114.76
	2 1/2	6.375	127.50
	2 3/4	7.103	140.26
	3	7.650	153.00
	3 1/4	8.288	165.76
	3 1/2	8.925	178.50
	4	10.200	204.00
	4 1/2	11.475	229.50
	5	12.750	255.00
	5 1/2	14.025	280.50
	6	15.300	306.00
	7	17.850	357.00
	8	20.400	408.00
	9	22.970	459.40
	10	25.520	510.40
	11	28.080	561.60
	12	30.63	612.60
7/8 x	1	2.957	59.50
	1 1/4	3.719	74.38
	1 1/2	4.463	89.26
	1 3/4	5.206	104.12
	2	5.950	119.00
	2 1/4	6.694	133.88
	2 1/2	7.438	148.76
	2 3/4	8.181	163.62
	3	8.925	178.50
	3 1/2	10.413	208.26
	4	11.900	238.00
	4 1/2	13.388	267.76
	5	14.875	297.50
	5 1/2	17.850	357.00
	6	20.825	416.50

*Some sizes available only by special orders.

Structural
FLAT BAR SIZES

Hot Rolled Flat Bar

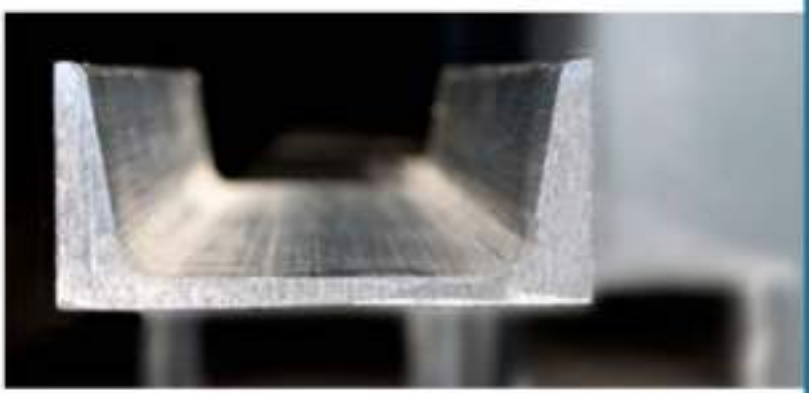
Estimated Weight Lbs. Size in inches		Per Foot	20 ft. Bar
7/8 x	8	23.800	476.00
	9	26.805	536.10
	10	29.783	595.66
	11	32.761	655.22
	12	35.740	714.80
1 x	1 1/4	4.25	85.00
	1 1/2	5.100	102.00
	1 3/4	5.950	119.00
	2	6.800	136.00
	2 1/4	7.650	153.00
	2 1/2	8.500	170.00
	2 3/4	9.350	187.00
	3	10.200	204.00
	3 1/4	11.050	221.00
	3 1/2	11.900	238.00
	4	13.600	272.00
	4 1/2	15.300	306.00
	5	17.000	340.00
	5 1/2	18.700	374.00
	6	20.400	408.00
	7	23.800	476.00
	8	27.200	544.00
	9	30.63	612.60
	10	34.030	680.60
	11	37.440	748.80
	12	40.840	816.80
1 1/8 x	2	7.650	153.00
	3	11.475	229.50
	4	15.300	306.00
	5	19.125	382.50
	6	22.950	459.00
	7	26.775	535.50
	8	30.600	612.00
	9	34.462	689.24
	10	38.291	765.82
	11	42.120	842.40
	12	45.950	919.00
1 1/4 x	1 1/2	6.375	127.50
	1 3/4	7.438	148.76
	2	8.500	170.00
	2 1/4	9.563	191.26
	2 1/2	10.625	212.50
1 1/4 x	2 3/4	11.688	233.76
	3	12.750	255.00
	3 1/2	14.875	297.50
	4	17.000	340.00
	4 1/2	19.125	382.50
	5	21.250	425.00
	5 1/2	23.375	467.50
	6	25.500	510.00
	7	29.750	595.00
	8	34.000	680.00
	9	38.287	765.74
	10	42.541	850.82
	11	46.796	935.92
	12	51.050	1021.00
1 1/2 x	2	10.200	204.00
	2 1/2	12.750	255.00
	3	15.300	306.00
	3 1/2	17.850	357.00
	4	20.400	408.00
	4 1/2	22.950	459.00
	5	25.500	510.00
	6	30.600	612.00
	7	35.700	714.00
	8	40.800	816.00
	9	45.953	919.06
	10	51.058	1021.16
	11	56.164	1123.28
	12	61.270	1225.40
1 3/4	2	11.900	238.00
	2 1/2	14.857	297.50
	3	17.850	357.00
	3 1/2	20.825	416.50
	4	23.800	476.00
	4 1/2	26.775	535.50
	5	29.750	595.00
	6	35.700	714.00
	7	41.650	833.00
	8	47.600	952.00
	9	53.602	1072.04
	10	59.558	1191.16
	11	65.514	1310.28
	12	71.470	1429.40

Hot Rolled Flat Bar

Estimated Weight Lbs. Size in inches		Per Foot	20 ft. Bar
2x	2 1/2	17.000	340.00
	3	20.400	408.00
	3 1/2	23.800	476.00
	4	27.200	544.00
	4 1/2	30.600	612.00
	5	34.000	680.00
	6	40.800	816.00
	7	47.600	952.00
	8	54.400	1088.00
	9	61.200	1225.20
	10	68.066	1361.32
	11	74.873	1497.46
	12	81.680	1633.60
2 1/2	3	25.500	510.00
	3 1/2	29.750	595.00
	4	34.000	680.00
	4 1/2	38.250	765.00
	5	42.500	850.00
	6	51.000	1020.00
	7	59.500	1190.00
	8	68.000	1360.00
	9	76.575	1531.50
	10	85.083	1701.66
	11	93.591	1871.82
	12	102.10	2042.00
3 x	4	40.8	816.00
	4 1/2	45.900	918.00
	5	51.000	1020.00
	6	61.200	1224.00
	7	71.400	1428.00
	8	81.600	1632.00
	9	91.890	1837.80
	10	102.10	2042.00
	11	112.31	2246.20
	12	122.52	2450.40

*Some sizes available only by special orders.

Structural
CHANNELS



ASTM A-36 Grade 50 Structural Steel Channel is a hot rolled, mild steel channel shape with inside radius corners that is ideal for all structural applications, general fabrication and repairs. A-36 Steel Channel is used in industrial maintenance, agricultural implements, transportation equipment, etc. A-36 Steel This product is available in carbon steel and galvanized.

Specifications: ASTM A-36 Grade 50
AKA: HR steel channel, mild steel channel, steel C channel

Applications: frame work, braces, supports, cross members, etc.

Workability: Easy to Weld, Cut, Form, and Machine

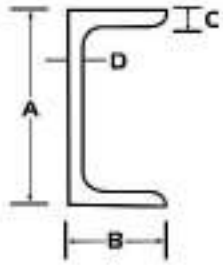
Structural Steel Shapes Conform to the ASTM (American Society for Testing and Materials)

AVAILABLE STOCK SIZES:

20ft, 30ft, 40ft

Bar Channels						
A		B		D		
Size in Inches					Estimated Weight Lbs.	
Section Depth		Flange With		Web Thickness	Per Foot	Per 20 Ft. Length
1/2	X	1/4	X	1/8	.28	5.60
3/4	X	5/16	X	1/8	.50	10.00
3/4	X	3/8	X	1/8	.54	10.80
7/8	X	3/8	X	1/8	.61	12.20
7/8	X	7/16	X	1/8	.69	13.80
1	X	3/8	X	1/8	.68	13.60
1	X	1/2	X	1/8	.80	16.00
1 1/8	X	9/16	X	1/8	1.16	23.20
1 1/4	X	1/2	X	1/8	1.00	20.00
1 1/2	X	1/2	X	1/8	1.12	22.40
1 1/2	X	3/4	X	1/8	1.17	23.40
2	X	1/2	X	1/8	1.34	26.80
2	X	1	X	1/8	1.78	35.60
1 1/2	X	9/16	X	3/16	1.44	28.80
1 1/2	X	1 1/2	X	3/16	2.65	53.00
1 3/4	X	1/2	X	3/16	1.55	31.00
2	X	9/16	X	3/16	1.76	35.20
2	X	1	X	3/16	2.57	51.40
2 1/2	X	5/8	X	3/16	2.27	45.40
2	X	5/8	X	1/4	2.18	43.60

Structural
CHANNEL SIZES



Standard Channels

Section number	Weight Per/Foot	A Depth of Section	B Flange With	C Flange Thickness	D Web Thickness
	lb.	In.	In.	In.	In.
3	3.5	3	1.376	.284	.130
	4.1	3	1.410	.273	.170
	5	3	1.498	.273	.258
	6	3	1.596	.273	356
4	4.5	4	1.585	.149	.163
	5.4	4	1.580	.296	.184
	7.25	4	1.721	.296	.321
5	6.7	5	1.750	.32	.190
	9	5	1.885	.32	.325
6	8.2	6	1.920	.343	.200
	10.5	6	2.034	.343	.314
	13	6	2.157	.343	.437
7	9.8	7	2.090	.366	.210
	12.25	7	2.194	.366	.303
	14.75	7	2.299	.366	.487
8	11.5	8	2.260	.39	.220
	13.75	8	2.343	.39	.303
	18.75	8	2.527	.39	.487
9	13.4	9	2.433	.413	.233
	15	9	2.485	.413	.285
	20	9	2.648	.413	.448
10	15.3	10	2.600	.436	.240
	20	10	2.739	.436	.379
	25	10	2.886	.436	.526
	30	10	3.033	.436	.673
12	20.7	12	2.942	.501	.282
	25	12	3.047	.501	.387
	30	12	3.170	.501	.510
15	33.9	15	3.400	.65	.400
	40	15	3.520	.65	.520
	50	15	3.716	.65	.716

*Some sizes available only by special orders.

MC Channels

Section Number Thickness	Weight Per/Foot	A Depth of Section	B Flange With	C Flange Thickness	D Web
		lb.	In.	In.	In.
3	7.1	2.93	1.983	.351	.312
4	13.8	4	2.500	.500	.500
6	6.5	6	1.840	.189	.155
	7	6	1.870	.189	.179
	12	6	2.497	.375	.310
	15.1	6	2.941	.475	.316
	15.3	6	3.500	.385	.340
	16.3	6	3.000	.475	.375
	18	6	3.504	.475	.379
7	17.6	7	3.000	.475	.375
	19.1	7	3.452	.500	.352
	22.7	7	3.603	.500	.503
8	6.6	8	1.075	.159	.138
	8.5	8	1.874	.311	179
	18.7	8	2.978	.500	.353
	20	8	3.025	.500	.400
	21.4	8	3.450	.525	.375
	22.8	8	3.502	.525	.427
9	23.9	9	3.450	.550	.400
	25.4	9	3.500	.550	.450
10	6.5	10	1.127	.202	.152
	8.4	10	1.500	.280	.170
	22	10	3.315	.575	.290
	25	10	3.405	.575	.380
	28.5	10	3.950	.575	.425
	33.6	10	4.100	.575	.575
	41.1	10	4.321	.575	.796
12	10.6	12	1.500	.309	.190
	31	12	3.670	.700	.370
	35	12	3.767	.700	.467
	40	12	3.890	.700	.590
	45	12	4.012	.700	.712
	50	12	4.135	.700	.835
13	31.8	13	4.000	.610	.375
	35	13	4.072	.610	.447
	40	13	4.185	.610	.560
	50	13	4.412	.610	.787
18	42.7	18	3.950	.625	.450
	45.8	18	4.000	.625	.500
	51.9	18	4.100	.625	.600
	58	18	4.200	.625	.700

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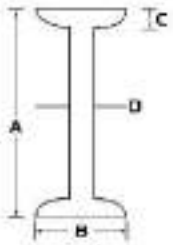


Structural
I- BEAMS (S)

Sloping wings and steel quality, according ASTM A-36 and tolerances according to ASTM A-6. These beams are available in standard lengths. Special orders can be made.

Applications: Construction of houses and buildings, racks of trucks and trailers, mezzanines, platforms, machine bases, bridges, etc.

Specifications: ASTM A-992/ASTM 572-992, the standard specification for structural steel shapes for use in building framing.

Structural Steel Shapes Conform to the ASTM (American Society for Testing and Materials)

MECHANICHAL PROPERTIES:

Tension	65,000 psi
Yield	50,000 psi
Brinell Hardness	143 (+/-)

AVAILABLE STOCK SIZES:

20 feet, 30 feet, 40 feet.
Other sizes available on request

*Some sizes available only by special orders

STANDARD "I" BEAMS
Standard Lengths 20'-60'

		A	B	C	D
Section Number	Weight Per/Foot	Depth of Section	Flange Width	Flange Thickness	Web Thickness
	lb.	In.	In.	In.	In.
S3	5.7	3.00	2.330	0.260	0.170
	7.5	3.00	2.509	0.260	0.349
S4	7.7	4.00	2.660	0.293	0.193
	9.5	4.00	2.796	0.293	0.326
S5	10	5.00	3.000	0.326	0.214
	14.75	5.00	3.284	0.326	0.494
S6	12.5	6.00	3.332	0.359	0.232
	17.25	6.00	3.565	0.359	0.465
S7	15.3	7.00	3.662	0.392	0.252
	20	7.00	3.860	0.392	0.450
S8	18.4	8.00	4.001	0.425	0.271
	23	8.00	4.171	0.425	0.441
S10	25.4	10.00	4.661	0.491	0.311
	35	10.00	4.944	0.491	0.594
S12	31.8	12.00	5.000	0.544	0.350
	35	12.00	5.078	0.544	0.428
	40.8	12.00	5.252	0.659	0.462
	50	12.00	5.477	0.659	0.687
S15	42.9	15.00	5.501	0.622	0.411
	50	15.00	5.640	0.622	0.550
S18	54.7	18.00	6.001	0.691	0.461
	70	18.00	6.251	0.691	0.711
S20	66	20.00	6.255	0.795	0.505
	75	20.00	6.385	0.795	0.635
	86	20.30	7.060	0.920	0.660
	96	20.30	7.200	0.920	0.800
S24	80	24.00	7.000	0.870	0.500
	90	24.00	7.125	0.870	0.625
	100	24.00	7.245	0.870	0.745
	106	24.50	7.870	1.090	0.620
	121	24.50	8.050	1.090	0.800

Structural
WF BEAMS



Steel beams, alias WF Beam, have non-conical edges that are wider than standard "S" or "I" beams, which we also work with.

Specifications: ASTM A-572, A-992, the standard specification for structural steel shapes for use in building framing, and or bridges. This product is available in carbon steel and galvanized.

Applications: Construction of houses and buildings, racks of trucks and trailers, mezzanines, platforms, machine bases, bridges, etc.

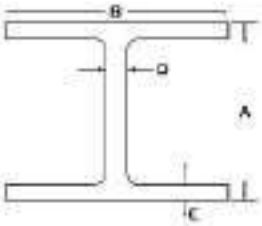
Structural Steel Shapes Conform to the ASTM
(American Society for Testing and Materials)

MECHANICHAL PROPERTIES:

Tension	65,000 psi
Yield	50,000 psi
Brinell Hardness	143 (+/-)

AVAILABLE STOCK SIZES:

20 feet, 30 feet, 40 feet.
Other sizes below under request.



Structural
WF BEAM SIZES

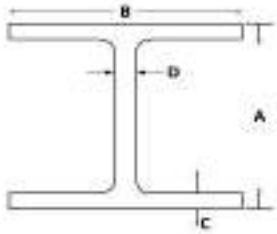
WIDE FLANGE BEAMS
Standard Lengths 20'-70' in 5'-0"Increments

Section Number	Weight Per/Foot lb.	A Depth of Section In.	B Flange Width In.	C Flange Thickness In.	D Web Thickness In.
W4	13	4.16	4.060	0.345	0.280
W5	16	5.01	5.000	0.360	0.240
	19	5.15	5.030	0.430	0.270
W6	8.5	5.83	3.940	0.194	0.170
	9	5.90	3.940	0.215	0.170
	12	6.03	4.000	0.280	0.230
	16	6.28	4.030	0.405	0.260
W6	15	5.99	5.990	0.260	0.230
	20	6.20	6.020	0.365	0.260
	25	6.38	6.080	0.455	0.320
W8	10	7.89	3.940	0.205	0.170
	13	7.99	4.000	0.255	0.230
	15	8.11	4.015	0.315	0.245
W8	18	8.14	5.250	0.330	0.230
	21	8.28	5.270	0.400	0.250
W8	24	7.93	6.490	0.400	0.245
	28	8.06	6.535	0.465	0.285
W8	31	8.00	7.995	0.435	0.285
	35	8.12	8.020	0.495	0.310
	40	8.25	8.070	0.560	0.360
	48	8.50	8.110	0.685	0.400
	58	8.75	8.220	0.810	0.510
	67	9.00	8.280	0.935	0.570
W10	12	9.87	3.960	0.210	0.190
	15	9.99	4.000	0.270	0.230
	17	10.11	4.010	0.330	0.240
	19	10.24	4.020	0.395	0.250
W10	16	9.95	5.710	0.250	0.195
	22	10.17	5.750	0.360	0.240
W10	16	9.95	5.710	0.250	0.195
	22	10.17	5.750	0.360	0.240
	26	10.33	5.770	0.440	0.260
	30	10.47	5.810	0.510	0.300
W10	33	9.73	7.960	0.435	0.290
	39	9.92	7.985	0.530	0.315
	45	10.10	8.020	0.620	0.350
W10	49	9.98	10.000	0.560	0.340
	54	10.09	10.030	0.615	0.370
	60	10.22	10.080	0.680	0.420
	68	10.40	10.130	0.770	0.470
	77	10.60	10.190	0.870	0.530
	88	10.84	10.265	0.990	0.605
	100	11.10	10.340	1.120	0.680
	112	11.36	10.415	1.250	0.755
W12	14	11.91	3.970	0.225	0.200
	16	11.99	3.990	0.265	0.220
	19	12.16	4.005	0.350	0.235
	22	12.31	4.030	0.425	0.260
W12	21	12.04	6.450	0.290	0.195
	26	12.22	6.490	0.380	0.230
	30	12.34	6.520	0.440	0.260
	35	12.50	6.560	0.520	0.300
W12	40	11.94	8.005	0.515	0.295
	45	12.06	8.045	0.575	0.335
	50	12.19	8.080	0.640	0.370
W12	53	12.06	9.995	0.757	0.345
	58	12.19	10.010	0.640	0.360
W12	65	12.12	12.00	0.605	0.390
	72	12.25	12.040	0.670	0.430

WIDE FLANGE BEAMS
Standard Lengths 20'-70' in 5'-0"Increments

Section Number	Weight Per/Foot lb.	A Depth of Section In.	B Flange Width In.	C Flange Thickness In.	D Web Thickness In.
	79	12.38	12.080	0.735	0.470
	87	12.53	12.125	0.810	0.515
	96	12.71	12.160	0.900	0.550
	106	12.89	12.220	0.990	0.610
	120	13.12	12.320	1.105	0.710
	136	13.41	12.400	1.250	0.790
	152	13.71	12.480	1.400	0.870
	170	14.03	12.570	1.560	0.960
	190	14.38	12.670	1.735	1.060
	210	14.71	12.790	1.900	1.180
	230	15.05	12.895	2.070	1.285
	252	15.41	13.005	2.250	1.395
	279	15.85	13.140	2.470	1.530
	305	16.32	13.235	2.705	1.625
	336	16.82	13.385	2.955	1.775
W14	22	13.74	5.000	0.335	0.230
	26	13.91	5.025	0.420	0.255
W14	30	13.84	6.730	0.385	0.270
	34	13.98	6.785	0.455	0.285
	38	14.10	6.770	0.515	0.310
W14	43	13.66	7.995	0.530	0.305
	48	13.79	8.030	0.595	0.340
	53	13.92	8.060	0.660	0.370
W14	61	13.89	9.995	0.645	0.375
	68	14.04	10.035	0.720	0.415
	74	14.17	10.070	0.785	0.450
	82	14.31	10.130	0.855	0.510
W14	90	14.02	14.520	0.710	0.440
	99	14.16	14.565	0.780	0.485
	109	14.32	14.605	0.860	0.525
	120	14.48	14.670	0.940	0.590
	132	14.66	14.725	1.030	0.645
W14	145	14.78	15.500	1.090	0.680
	159	14.98	15.565	1.190	0.745
	176	15.22	15.650	1.310	0.830
	193	15.48	15.710	1.440	0.890
	211	15.72	15.800	1.560	0.960
	233	16.04	15.890	1.720	1.070
	257	16.38	15.995	1.890	1.175
	283	16.74	16.110	2.070	1.290
	311	17.12	16.230	2.260	1.410
	342	17.54	16.360	4.270	1.540
	370	17.92	16.475	2.660	1.655
	398	18.29	16.590	2.845	1.770
	426	18.67	16.695	3.035	1.875
	455	19.02	16.835	3.210	2.015
	500	19.60	17.010	3.500	2.190
	550	20.24	17.200	3.820	2.380
	605	20.92	17.415	4.160	2.595
	665	21.64	17.650	4.520	2.830
	730	22.42	17.890	4.910	3.070
W16	26	15.69	5.500	0.345	0.250
	31	15.88	5.525	0.440	0.275
W16	36	15.86	6.985	0.430	0.295
	40	16.01	6.995	0.505	0.305
	45	16.13	7.035	0.565	0.345
	50	16.26	7.070	0.630	0.380
	57	16.43	7.120	0.715	0.430
W16	67	16.33	10.235	0.665	0.395

Structural
WF BEAM SIZES



WIDE FLANGE BEAMS
Standard Lengths 20'-70' in 5'-0"increments

Section Number	Weight Per/Foot	A Depth of Section	B Flange Width	C Flange Thickness	D Web Thickness
	lb.	In.	In.	In.	In.
	77	16.52	10.295	0.760	0.455
	89	16.75	10.365	0.875	0.525
	100	16.97	10.425	0.985	0.585
W18	35	17.70	6.000	0.425	0.300
	40	17.90	6.015	0.525	0.315
	46	18.06	6.060	0.605	0.360
	41	17.70	7.450	0.530	0.320
	45	17.86	7.480	0.500	0.340
	50	17.99	7.495	0.570	0.355
	55	18.11	7.530	0.630	0.390
	60	18.24	7.555	0.695	0.415
	65	18.35	7.590	0.750	0.450
	71	18.47	7.635	0.810	0.495
W18	76	18.21	11.035	0.680	0.425
	86	18.39	11.090	0.770	0.480
	97	18.59	11.145	0.870	0.535
	106	18.73	11.200	0.940	0.590
	119	18.97	11.265	1.060	0.655
	130	19.25	11.160	1.200	0.670
	143	19.49	11.220	1.320	0.730
	158	19.72	11.300	1.440	0.810
	175	20.04	11.375	1.590	0.890
	192	20.35	11.455	1.750	0.960
	211	20.67	11.555	1.910	1.060
	234	21.06	11.650	2.110	1.160
	258	21.46	11.770	2.300	1.280
	283	21.85	11.890	2.500	1.400
	311	22.32	12.005	2.740	1.520
W21	44	20.66	6.500	0.450	0.350
	50	20.83	6.530	0.535	0.380
	57	21.06	6.555	0.650	0.405
W21	48	20.62	8.140	0.430	0.350
	55	22.80	8.220	0.522	0.375
	62	20.99	8.240	0.615	0.400
	68	21.13	8.270	0.685	0.430
	73	21.24	8.295	0.740	0.455
	83	21.43	8.355	0.835	0.515
	93	21.62	8.420	0.930	0.580
W21	101	21.36	12.290	0.800	0.500
	111	21.51	12.340	0.875	0.550
	122	21.68	12.390	0.960	0.600
	132	21.83	12.440	1.035	0.650
	147	22.06	12.510	1.150	0.720
	166	22.48	12.420	1.360	0.750
	182	22.72	12.500	1.480	0.830
	201	23.03	12.560	1.630	0.910
	223	23.35	12.680	1.790	1.000
	248	23.74	12.775	1.990	1.110
	275	24.13	12.890	2.190	1.220
W24	55	23.57	7.005	0.505	0.395
	62	23.74	7.040	0.590	0.430
	56	23.48	8.900	0.460	0.355
	61	23.56	8.930	0.500	0.380
	68	23.73	8.965	0.585	0.415
	76	23.92	8.990	0.680	0.440
	84	24.10	9.020	0.770	0.470
	94	24.31	9.065	0.875	0.515
	103	24.53	9.000	0.980	0.550
	114	24.76	9.060	1.100	0.610
	128	25.00	9.110	1.220	0.670

WIDE FLANGE BEAMS
Standard Lengths 20'-70' in 5'-0"increments

Section Number	Weight Per/Foot	A Depth of Section	B Flange Width	C Flange Thickness	D Web Thickness
	lb.	In.	In.	In.	In.
	146	25.32	9.220	1.360	0.770
	163	25.63	9.290	1.540	0.850
	198	26.26	9.470	1.850	1.020
W24	104	24.06	12.750	0.750	0.500
	117	24.26	12.800	0.850	0.550
	131	24.48	12.855	0.960	0.605
	146	24.74	12.900	1.090	0.650
	162	25.00	12.995	1.220	0.705
	176	25.24	12.890	1.340	0.750
	192	25.47	12.950	1.460	0.810
	207	25.71	13.010	1.570	0.870
	229	26.02	13.110	1.730	0.960
	250	26.34	13.185	1.890	1.040
	279	26.73	13.305	2.090	1.160
	306	27.13	13.405	2.280	1.260
	335	27.52	13.520	2.480	1.380
	370	27.99	13.660	2.720	1.520
	408	28.54	13.800	2.990	1.650
	450	29.09	13.955	3.270	1.810
	492	29.65	14.115	3.540	1.970
W27	84	26.71	9.960	0.640	0.460
	94	26.92	9.990	0.745	0.490
	102	27.09	10.015	0.830	0.515
	114	27.29	10.070	0.930	0.570
	129	27.63	10.010	1.100	0.610
	159	28.11	10.150	1.340	0.750
	182	28.50	10.240	1.540	0.850
	201	28.82	10.350	1.690	0.940
	221	29.13	10.430	1.850	1.020
W27	146	27.38	13.965	0.975	0.605
	161	27.59	14.020	1.080	0.660
	178	27.81	14.085	1.190	0.725
	194	287.11	14.035	1.340	0.750
	217	28.43	14.115	1.500	0.830
	235	28.66	14.190	1.610	0.910
	258	28.98	14.270	1.770	0.980
	281	29.29	14.350	1.930	1.060
	307	29.61	14.445	2.090	1.160
	336	30.00	14.545	2.280	1.260
	368	30.39	14.665	2.480	1.380
	407	30.87	14.800	2.720	1.520
	448	31.42	14.940	2.990	1.650
	494	31.97	15.095	3.270	1.810
W30	90	29.53	10.400	0.610	0.470
	99	29.65	10.450	0.670	0.520
	108	29.83	10.475	0.760	0.545
	116	30.01	10.459	0.850	0.565
	124	30.17	10.515	0.930	0.585
	132	30.31	10.545	1.000	0.615
	148	30.67	10.480	1.180	0.650
W30	173	30.44	14.985	1.065	0.655
	191	30.68	15.040	1.185	0.710
	211	30.94	15.105	1.315	0.775
	235	31.30	15.055	1.500	0.830
	261	31.61	15.155	1.650	0.930
	292	32.01	15.255	1.850	1.020
	326	32.40	15.370	2.050	1.140
	357	32.80	15.470	2.240	1.240
	391	33.19	15.590	2.440	1.360

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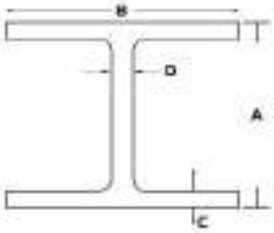


Structural
WF BEAM SIZES

WIDE FLANGE BEAMS
Standard Lengths 20'-70' in 5'-0"increments

Section Number	Weight Per/Foot	A Depth of Section	B Flange Width	C Flange Thickness	D Web Thickness
	lb.	In.	In.	In.	In.
	433	33.66	15.725	2.680	1.500
	477	34.21	15.865	2.950	1.630
W33	118	32.86	11.480	0.740	0.550
	130	33.09	11.510	0.855	0.580
	141	33.30	11.535	0.960	0.605
	152	33.49	11.565	1.055	0.635
	169	33.82	11.500	1.220	0.670
	187	34.06	11.580	1.340	0.750
	204	34.30	11.640	1.460	0.810
	219	34.53	11.700	1.570	0.870
W33	201	33.68	15.745	1.150	0.715
	221	33.93	15.805	1.257	0.775
	241	34.18	15.860	1.400	0.830
	263	34.53	15.805	1.570	0.870
	291	34.84	15.905	1.730	0.960
	318	35.16	15.985	1.890	1.040
	354	35.55	16.100	2.090	1.160
	387	35.95	16.200	2.280	1.260
	424	36.34	16.315	2.480	1.380
	468	36.81	16.455	2.720	1.520
W36	135	35.55	11.950	0.790	0.600
	150	35.85	11.975	0.940	0.625
	160	36.01	12.000	1.020	0.650
	170	36.17	12.030	1.100	0.680
	182	36.33	12.075	1.180	0.725
	194	36.49	12.115	1.260	0.765
	210	36.69	12.180	1.360	0.830
	232	37.12	12.120	1.570	0.960
	256	37.43	12.215	1.730	0.870
	285	37.83	12.310	1.930	1.060
	318	38.22	12.430	2.130	1.180
	349	38.61	12.550	2.320	1.300
	386	39.09	12.670	2.560	1.420
W36	231	36.49	16.470	1.260	0.760
	247	36.67	16.510	1.350	0.800
	262	36.85	16.550	1.440	0.840
	282	37.11	16.595	1.570	0.885
	302	37.33	16.655	1.680	0.945
	330	37.67	16.630	1.850	1.020
	361	37.99	16.730	2.010	1.120
	395	38.41	16.830	2.200	1.220
	441	38.85	16.956	2.440	1.360
	487	39.33	17.105	2.680	1.500
	529	39.79	17.220	2.910	1.610
	652	41.05	17.575	3.540	1.970
W40	149	38.20	11.810	0.830	0.630
	167	38.59	11.810	1.025	0.650
	183	38.98	11.810	1.220	0.650
	211	39.37	11.811	1.413	0.752
	235	39.68	11.980	1.575	0.831
	264	40.00	11.929	1.728	0.961
	278	40.16	11.968	1.811	1.024
	294	40.39	12.008	1.929	1.059
	327	40.79	12.126	2.130	1.181
	331	40.79	12.165	2.126	1.220
	392	41.57	12.362	2.520	1.417
W40	199	38.67	15.750	1.065	0.650
	215	38.98	15.750	1.220	0.650
	249	39.38	15.750	1.420	0.750

WIDE FLANGE BEAMS
Standard Lengths 20'-70' in 5'-0"increments

Section Number	Weight Per/Foot	A Depth of Section	B Flange Width	C Flange Thickness	D Web Thickness
	lb.	In	In.	In.	In.
W40	277	39.69	15.830	1.575	0.830
	297	39.84	15.825	1.650	0.930
	324	40.16	15.905	1.810	1.000
	362	40.55	16.020	2.010	1.120
	372	40.63	16.060	2.050	1.160
	397	40.95	16.120	2.200	1.220
	431	41.26	16.220	2.362	1.339
	436	41.34	16.240	2.400	1.340
	480	41.81	16.360	2.640	1.460
	503	42.05	16.417	2.756	1.535
	593	42.99	16.693	3.228	1.791
W40	192	38.20	17.710	0.830	0.710
	221	38.67	17.710	1.065	0.710
	244	39.06	17.710	1.260	0.710
	268	39.37	17.750	1.415	0.750
	298	39.69	17.830	1.575	0.830
	328	40.00	17.910	1.730	0.910
W44	230	42.91	15.750	1.220	0.710
	262	43.31	15.750	1.420	0.790
	290	43.62	15.830	1.580	0.870
	335	44.02	15.950	1.770	1.020

*Some sizes available only by special orders

Reinforcing Steel
Welding Electrodes

Welding Electrode XL 610 P: It is an electrode of high penetration and fast solidification. For welding low carbon steel, ordinary and galvanized sheet, boilers, structures, pressure pipes and cast steel.

Welding Electrode 6011 ACP 611 SS: It is used to weld all types of low carbon steel in pipes, structures, ship-building, pressure vessels, etc, especially penetration passes.

Welding Electrode 6013 SW 10: Easy to handle, European type electrode developed for all types of welding, Require little penetration. It is used for iron constructions carpentry in general, with thin sheet, manufacture of doors, windows, bars, ducts, assembly of bodywork and ornamentation in general. The draw technique can be used for flat joints and horizontal.

Structural
RECTANGULAR TUBING



Rectangle Steel Tube is a welded structural grade tubing that is available in either type ASTM A-513 or A-500 = Seamless B, depending on its size and wall thickness. Either grade is ideal for all structural applications, general fabrication, manufacturing and repairs. Steel rectangle tube is widely used in industrial maintenance, agricultural implements, transportation equipment, truck beds, trailers, frames, etc. Its box-shape configuration allows for much greater strength and rigidity compared to angles or channels.

This steel shape is easy to weld, cut, form and machine with the proper equipment and knowledge. This product is available in carbon steel and galvanized.

Steel Services & Supplies stocks a variety of sizes of rectangle tube at wholesale prices in ready to ship, precut and mill lengths or you can order just what you need custom cut to size in any quantity.

Structural Steel Shapes Conform to the ASTM
(American Society for Testing and Materials)

MECHANICAL PROPERTIES:

Yield Point	72 ksi (A513);	45 ksi (A500)
Tensile Strength	87 ksi (A513);	58 ksi (A500)
Elongation in 2"	10% (A513);	23% (A500)

Structural

RECTANGULAR TUBING SIZES

RECTANGULAR TUBING

Size in Inches	Carbon Steel Average Well Gauge	Carbon Steel Average Well Decimal	Weight per ft. in Lbs.
1 1/2 x1	16	.065	1.03
	14	.083	1.32
	1/8	.125	1.84
2x1	16	.065	1.25
	14	.083	1.57
	1/8	.125	2.25
	3/16	.188	3.35
	1/4	.250	4.25
2x1 1/2	16	.065	1.49
	14	.083	1.88
	1/8	.125	2.66
	3/16	.188	3.99
2 1/2 x 1	16	.065	1.49
	14	.083	1.88
	1/8	.125	2.66
	3/16	.188	3.99
2 1/2 x 1 1/2	16	.065	1.69
	14	.083	2.16
	1/8	.125	3.05
	3/16	.188	4.31
	1/4	.250	5.41
3x1	16	.065	1.69
	14	.083	2.16
	1/8	.125	3.05
	3/16	.188	4.31
	1/4	.250	5.41
3x1 1/2	16	.065	1.93
	14	.083	2.45
	1/8	.125	3.48
	3/16	.188	5.07
3x2	16	.065	2.15
	14	.083	2.73
	1/8	.125	3.90
	3/16	.188	5.59
	1/4	.250	7.11
3x2 1/2	14	.083	3.01
	1/8	.125	4.29
	3/16	.188	6.29
3 1/2 x 1 1/2	16	.065	2.15
	14	.083	2.73
	1/8	.125	3.90
	3/16	.188	5.59

RECTANGULAR TUBING

Size in Inches	Carbon Steel Average Well Gauge	Carbon Steel Average Well Decimal	Weight per ft. in Lbs.
3 1/2 x 1 1/2	1/4	.250	7.11
3 1/2x2	1/4	.083	3.01
	1/8	.125	4.29
	3/16	.188	6.29
3 1/2x2 1/2	16	.065	2.59
	14	.083	3.26
	1/8	.125	4.75
	3/16	.188	6.88
	1/4	.250	8.81
	5/16	.313	10.58
4x2	16	.065	2.59
	14	.083	3.29
	1/8	.125	4.83
	3/16	.188	6.87
	1/4	.250	8.81
	5/16	.313	10.58
4x2 1/2	14	.083	3.55
	1/8	.125	5.11
	3/16	.188	7.48
	1/4	.250	9.65
4x3	14	.083	3.80
	1/8	.125	5.61
	3/16	.188	8.16
	1/4	.250	10.51
	5/16	.313	12.70
4 1/2x2	14	.083	3.55
	1/8	.125	5.11
	3/16	.188	7.48
	1/4	.250	9.65
4x3	14	.083	3.80
	1/8	.125	5.61
	3/16	.188	8.16
	1/4	.250	10.51
	5/16	.313	12.70
4 1/2x2	14	.083	3.55
	1/8	.125	5.11
	3/16	.188	7.48
	1/4	.250	9.65
5x2	14	.083	3.80
	1/8	.125	5.61
	3/16	.188	8.16
	1/4	.250	10.51
	5/16	.313	12.70
5x2 1/2	1/8	.125	5.92
	3/16	.188	8.75
	1/4	.250	11.35
5x3	1/8	.125	6.46
	3/16	.188	9.44
	1/4	.250	12.21
	5/16	.313	14.84
	3/8	.375	17.27

RECTANGULAR TUBING SIZES

RECTANGULAR TUBING			
Size in Inches	Carbon Steel Average Well Gauge	Carbon Steel Average Well Decimal	Weight per ft. In Lbs.
5x3	1/2	.500	21.63
	5/8	.625	25.26
5x4	3/16	.188	10.71
	1/4	.250	13.91
	5/16	.313	16.96
	3/8	.375	19.82
	1/2	.500	27.20
6x2	1/8	.125	6.46
	3/16	.188	9.44
	1/4	.250	12.21
	5/16	.313	14.84
	3/8	.375	17.27
	1/2	.500	21.63
	5/8	.625	25.26
6x3	3/16	.188	10.71
	1/4	.250	13.91
	5/16	.313	16.96
	3/8	.375	19.82
	1/2	.500	27.20
6x4	3/16	.188	11.97
	1/4	.250	15.62
	5/16	.313	19.08
	3/8	.375	22.37
	1/2	.500	28.43
6x5	3/16	.188	13.25
	1/4	.250	17.32
	5/16	.313	21.21
	3/8	.375	24.93
	1/2	.500	31.81
7x3	3/16	.188	11.97
	1/4	.250	15.62
	5/16	.313	19.08
	3/8	375	22.37
	1/2	.500	28.43
7x4	3/16	.188	13.25
	1/4	.250	17.32
	5/16	.313	21.21
	3/8	.375	24.93
	1/2	.500	31.81

*Some sizes available only by special orders.

RECTANGULAR TUBING			
Size in Inches	Carbon Steel Average Well Gauge	Carbon Steel Average Well Decimal	Weight per ft. In Lbs.
7x5	3/16	.188	14.53
	1/4	.250	19.02
	5/16	.313	23.35
	3/8	.375	27.48
	1/2	.500	35.24
	5/8	.625	42.26
8x2	3/16	.188	11.97
	1/4	.250	15.62
	5/16	.313	19.08
8x3	3/16	.188	13.25
	1/4	.250	17.32
	5/16	.313	21.21
	3/8	.375	24.93
8x4	3/16	.188	14.53
	1/4	.250	19.02
	5/16	.313	23.35
	3/8	.375	27.48
	1/2	.500	35.24
	5/8	.625	42.26
8x5	3/16	.188	15.80
	1/4	.250	20.72
	5/16	.313	25.47
	3/8	.375	30.03
8x6	3/16	.188	17.11
	1/4	.250	22.42
	5/16	.313	27.59
	3/8	.375	32.58
	1/2	.500	42.05
	5/8	.625	50.76
9x5	1/4	.250	22.42
	5/16	.313	27.59
	3/8	.375	32.58
	1/2	.500	42.05
	5/8	.625	50.81
9x7	1/4	.250	25.82
	5/16	.313	31.86
	3/8	.375	37.69
	1/2	.500	48.85
	5/8	.625	59.32
10x2	3/16	.188	14.53
	1/4	.250	19.02
	5/16	.313	23.35
10x3	3/16	.188	15.80
	1/4	.250	20.72
	5/16	.313	25.47
10x4	3/16	.188	17.11

Structural

RECTANGULAR TUBING SIZES

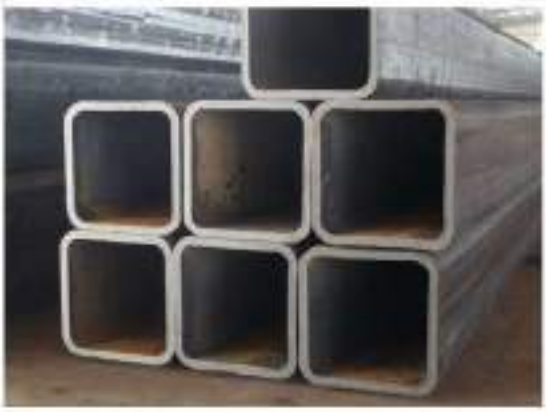
RECTANGULAR TUBING

Size in Inches	Carbon Steel Average Well Gauge	Carbon Steel Average Well Decimal	Weight per ft. In Lbs.
10x4	1/4	.250	
	5/16	.313	
	3/8	.375	
	1/2	.500	
	5/8	.625	
10x5	1/4	.250	
	5/16	.313	
	3/8	.375	
10x6	1/4	.250	
	5/16	.313	
	3/8	.375	
	1/2	.500	
	5/8	.625	
10x8	1/4	.250	
	5/16	.313	
	3/8	.375	
	1/2	.500	
	5/8	.625	
12x2	3/16	.188	
	1/4	.250	
	5/16	.313	
	3/8	.375	
12x3	3/16	.188	
	1/4	.250	
	5/16	.313	
12x4	1/4	.250	
	5/16	.313	
	3/8	.375	
	1/2	.500	
	5/8	.625	
12x6	1/4	.250	
	5/16	.313	
	3/8	.375	
	1/2	.500	
	5/8	.625	
12x8	5/16	.313	
	3/8	.375	
	1/2	.500	
	5/8	.625	

RECTANGULAR TUBING

Size in Inches	Carbon Steel Average Well Gauge	Carbon Steel Average Well Decimal	Weight per ft. In Lbs.
12x10	5/16	.313	44.60
	3/8	.375	53.00
	1/2	.500	69.27
14x4	5/16	.313	36.12
	3/8	.375	42.79
	1/2	.500	55.66
	5/8	.625	67.82
14x6	5/16	.313	40.37
	3/8	.375	47.90
	1/2	.500	62.46
	5/8	.625	76.33
14x10	5/16	.313	48.86
	3/8	.375	58.10
	1/2	.500	76.07
	5/8	.625	93.25
16x4	5/16	.313	40.37
	3/8	.375	47.90
	1/2	.500	62.46
	5/8	.625	76.33
16x8	5/16	.313	48.86
	3/8	.375	58.10
	1/2	.500	76.07
	5/8	.625	93.25
16x12	5/16	.313	57.36
	3/8	.375	68.31
	1/2	.500	89.68
	5/8	.625	110.36
18x6	5/16	.313	48.86
	3/8	.375	58.10
	1/2	.500	76.07
	5/8	.625	93.25
20x4	3/8	.375	58.10
	1/2	.500	76.07
	5/8	.625	93.25
20x8	3/8	.375	68.31
	1/2	.500	89.68
	5/8	.625	110.36
20x12	3/8	.375	78.52
	1/2	.500	103.30
	5/8	.625	127.37

Structural
SQUARE TUBES



Square Steel Tube is a welded structural grade tubing that is available in either type ASTM A-513 or A-500 Grade B, depending on its size and wall thickness. Either grade is ideal for all structural applications, general fabrication, manufacturing and repairs. Steel square tube is widely used in industrial maintenance, agricultural implements, transportation equipment, truck beds, trailers, frames, etc. Its box-shape configuration allows for much greater strength and rigidity compared to angles or channels.

This steel shape is easy to weld, cut, form and machine with the proper equipment and knowledge. This product is available in carbon steel and galvanized.

Steel Services & Supplies stocks a variety of sizes of square tube at wholesale prices in ready to ship precut and mill lengths or you can order just what you need custom cut to size in any quantity.

Structural Steel Shapes Conform to the ASTM
(American Society for Testing and Materials)

MECHANICAL PROPERTIES:

	72 ksi (A513)	46ksi (A500)
Yield Point	87 ksi (A513)	58ksi (A500)
Tensile Strength	10% (A513)	23% (A500)
Elongation in 2"	3X wall max.	
Outside Corner Radius		

AVAILABLE STOCK SIZES:
20ft, 30ft, 40ft and other sizes by special orders.

Structural

SQUARE TUBES SIZES

SQUARE TUBING

Size in Inches	Carbon Steel Average Well Gauge	Decimal	Weight per ft. In Lbs.
½ x ½	16	.065	.364
	14	.083	.470
¾ x ¾	16	.065	.585
	14	.083	.727
	1/8	.125	.950
1 x 1	16	.065	.806
	14	.083	1.01
	1/8	.125	1.44
1 ¼ x 1 ¼	16	.065	1.03
	14	.083	1.32
	1/8	.125	1.84
	3/16	.188	2.62
	¼	.250	4.11
1 ½ x 1 ½	16	.065	1.25
	14	.083	1.57
	1/8	.125	2.25
	3/16	.188	3.35
	1/4	.250	4.25
1 ¾ x 1 ¾	16	.065	1.49
	14	.083	1.88
	1/8	.125	2.66
	3/16	.188	3.99
2 x 2	16	.065	1.69
	14	.083	2.16
	1/8	.125	3.05
	3/16	.188	4.31
	¼	.250	5.41
2 ½ x 2 ½	16	.065	2.15
	14	.083	2.73
	1/8	.125	3.90
	3/16	.188	5.59
	¼	.250	7.11
3 x 3	16	.065	2.59
	14	.083	3.26
	1/8	.125	4.75
	3/16	.188	6.88

SQUARE TUBING

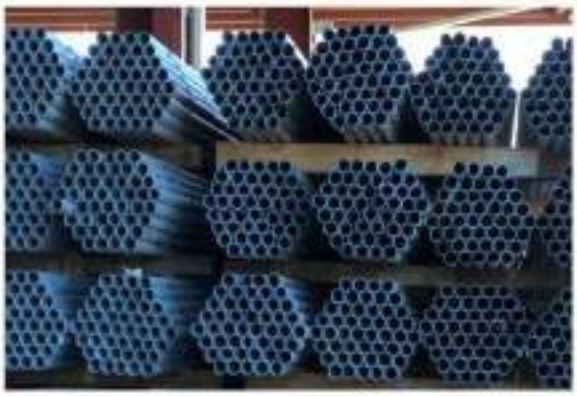
Size in Inches	Carbon Steel Average Well Gauge	Decimal	Weight per ft. In Lbs.
	1/4	.250	8.81
	5/16	.313	10.58
	3/8	3.75	12.16
3 ½ x 3 ½	14	.083	3.80
	1/8	.125	5.61
	3/16	.188	8.16
	¼	.250	10.51
	5/16	.313	12.70
	3/8	.375	15.94
4 x 4	1/8	.125	6.46
	3/16	.188	9.44
	¼	.250	12.21
	5/16	.313	14.84
	3/8	.375	17.27
	½	.500	21.63
	5/8	.625	25.26
4 ½ x 4 ½	3/16	.188	10.71
	¼	.250	13.91
	5/16	.313	16.96
	3/8	.375	19.82
	1/2	.500	27.20
5 x 5	3/16	.188	11.97
	¼	.250	15.62
	5/16	.313	19.08
	3/8	.375	22.37
	½	.500	28.43
	5/8	.625	33.76
5 ½ x 5 ½	3/16	.188	13.25
	¼	.250	17.32
	5/16	.313	21.21
	3/8	.375	24.93
	½	.500	31.81
6 x 6	3/16	.188	14.53
	¼	.250	19.02
	5/16	.313	23.35
	3/8	.375	27.48

SQUARE TUBING

Size in Inches	Carbon Steel Average Well Gauge	Decimal	Weight per ft. In Lbs.
	1/2	.500	35.24
	5/8	.625	42.26
7 x 7	3/16	.188	17.11
	14	.250	22.42
	5/16	.313	27.59
	3/8	.375	32.58
	½	.500	42.05
	5/8	.625	50.76
8 x 8	3/16	.188	19.66
	1/4	.250	25.85
	5/16	.313	31.86
	3/8	.375	37.69
	1/2	.500	48.85
	5/8	.625	59.32
9 x 9	1/4	.250	29.23
	5/16	.313	36.12
	3/8	.375	42.79
	1/2	.500	55.66
	5/8	.625	67.82
10 x 10	3/16	.188	24.73
	1/4	.250	32.63
	5/16	.313	40.37
	3/8	.375	47.90
	1/2	.500	62.46
	5/8	.625	76.33
12 x 12	5/16	.313	48.86
	3/8	.375	58.10
	1/2	.500	76.07
	5/8	.625	93.34
14 x 14	5/16	.313	57.36
	3/8	.375	68.31
	1/2	.500	89.68
	5/8	.625	110.36
16 x 16	5/16	.313	65.87
	3/8	.375	78.52
	1/2	.500	103.30
	5/8	.625	127.37

*Some sizes available only by special orders.

Structural
PIPES



Is a welded steel tube with a internal weld seam that is measured in nominal size unlike DOM or Welded Round Tube. ASTM A-53, A-500, A-501 and A-618 Steel Pipe is a economical structural grade pipe with a smooth bare finish that has slighter higher mechanical properties than standard pipe. Our sch 40 and sch 80 Steel Pipe is a tested pipe that can be used for structural or pressure applications and may have a black coated finish. We stock most sizes in black and galvanized, threaded or plain end. This product is available in carbon steel and galvanized.

Specifications: ASTM A-500 Grade B; ASTM A-53 Gr B, Type E, Tested
Applications: frames, roll cages, truck racks, trailers, railings, etc.
Workability: Easy to Weld, Cut, Form and Machine

Structural Steel Shapes Conform to the ASTM
(American Society for Testing and Materials)

AVAILABLE STOCK SIZES:
Length 21ft, Diameter 1/2" to 24".
Other lengths available by special orders.

Structural

PIPE SIZES

Pipe Dimensions						
Nominal Pipe Size Inches	Outside Diameter Inches	Schedule		Inside Diameter Inches	Wall Thickness Inches	Weight per Foot Lbs. Plain End
1/2	.840	5		.710	.065	.538
		10		.674	.083	.671
		40	Std.	.622	.109	.850
		80	Ex Hvy.	.546	.147	1.09
		160		.466	.188	1.309
			XX Hvy.	.252	.294	1.714
3/4	1.050	5		.920	.065	.683
		10		.844	.083	.857
		40	Std.	.824	.113	1.130
		80	Ex Hvy.	.742	.154	1.470
		160		.614	.219	1.944
			XX Hvy.	.434	.308	2.441
1	1.315	5		1.185	.065	.868
		10		1.097	.109	1.404
		40	Std.	1.049	.133	1680
		80	Ex Hvy.	.957	.179	2.170
		160		.815	.250	2.844
			XX Hvy.	.599	.358	3.659
1 1/4	1.660	5		1.530	.065	1.107
		10		1.442	.109	1.806
		40	Std.	1.380	.140	2.270
		80	Ex Hvy.	1.278	.191	3.000
		160		1.160	.250	3.765
			XX Hvy.	.896	.382	5.214
1 1/2	1.900	5		1.770	.065	1.274
		10		1.682	.109	2.085
		40	Std.	1.610	.145	2.720
		80	Ex Hvy.	1.500	.200	3.630
		160		1.338	.281	4.859
			XX Hvy.	1.100	.400	6.408
2	2.375	5		2.245	.065	1.604
		10		2.157	.109	2.638
		40	Std.	2.067	.154	3.650
		80	Ex Hvy.	1.939	.218	5.020
		160		1.689	.344	7.462
			XX Hvy.	1.503	.436	9.030
2 1/2	2.875	5		2.709	.083	2.475
		10		2.635	.120	3.531
		40	Std.	2.469	.203	5.790
		80	Ex Hvy.	2.323	.276	7.660
		160		2.125	.375	10.010
			XX Hvy.	1.771	.552	13.690

Pipe Dimensions						
Nominal Pipe Size Inches	Outside Diameter Inches	Schedule		Inside Diameter Inches	Wall Thickness Inches	Weight per Foot Lbs. Plain End
3	3.500	5		3.334	.083	3.029
		10		3.260	.120	4.332
		40	Std.	3.068	.216	7.580
		80	Ex Hvy.	2.900	.300	10.250
		160		2.624	.438	14.320
			XX Hvy.	2.300	.600	18.580
3 1/2	4.000	5		3.834	.083	3.472
		10		3.760	.120	4.973
		40	Std.	3.548	.226	9.110
		80	Ex Hvy.	3.364	.318	12.500
4	4.500	5		4.334	.083	3.915
		10		4.260	.120	5.613
		40	Std.	4.026	.237	10.790
		80	Ex Hvy.	3.826	.337	14.980
		120		3.624	.438	19.000
		160		3.438	.531	22.510
			XX Hvy.	3.152	.674	27.540
4 1/2	5.000	40	Std.	4.506	.247	12.530
		80	Ex Hvy.	4.290	.355	17.610
			XX Hvy.	3.580	.710	32.430
5	5.536	5		5.345	.109	6.349
		10		5.295	.134	7.770
		40	Std.	5.047	.258	14.620
		80	Ex Hvy.	4.813	.375	20.780
		120		4.563	.500	27.040
		160		4.313	.625	32.960
			XX Hvy.	4.063	.750	38.550
6	6.625	5		6.407	.109	7.585
		10		6.357	.134	9.289
		40	Std.	6.065	.280	18.970
		80	Ex Hvy.	5.761	.432	28.570
		120		5.491	.526	36.390
		160		5.189	.719	45.350
			XX Hvy.	4.897	.864	53.160
7	7.625	40	Std.	7.023	.301	23.570
		80	Ex Hvy.	6.625	.500	38.050
			XX Hvy.	5.875	.875	63.080
8	8.625	5		8.407	.109	9.914
		10		8.329	.148	13.400
		20		8.125	.250	22.360
		40	Std.	7.981	.322	28.550
		60		7.813	.406	35.640

Structural
PIPE SIZES

Pipe Dimensions						
Nominal Pipe Size Inches	Outside Diameter Inches	Schedule		Inside Diameter Inches	Wall Thickness Inches	Weight per Foot Lbs. Plain End
		80	Ex Hvy.	7.625	.500	43.390
			XX Hvy.	5.875	.875	72.420
		160		6.813	.906	74.690
9	9.625	40	Std.	8.941	.342	33.900
		80	Ex Hvy.	8.625	.500	48.720
			XX Hvy.	7.875	.875	81.770
10	10.750	5		10.482	.134	15.190
		10		10.420	.165	18.700
		30		10.136	.307	34.240
		40	Std.	10.020	.365	40.480
		80	Ex Hvy.	9.750	.500	54.740
		140		8.750	1.000	104.130
		160		8.500	1.125	115.640
11	11.750	40	Std.	11.000	.375	45.550
		80	Ex Hvy.	10.750	.500	60.070
			XX Hvy.	10.000	.875	101.630
12	12.750	5		12.420	.165	22.180
			Std.	12.000	.375	49.560
		40		12.000	.406	53.530
		80	Ex Hvy.	11.750	.500	65.420
		160		10.126	1.312	160.270
14	14.000	10		13.500	.250	36.710
		20		13.376	.312	45.610
		30	Std.	13.250	.375	54.570
		40		13.124	.438	63.440
			Ex Hvy.	13.000	.500	72.090
		60		12.814	.594	85.050
		80		12.500	.750	106.130
		100		12.126	.938	130.850
		120		11.814	1.094	150.900
		140		11.500	1.250	170.210
		160		11.188	1.406	189.100
16	16 .000	10		15.500	.250	42.050
		20		15.376	.312	52.270
		30	Std.	15.250	.375	62.580
		40	Ex Hvy.	15.000	.500	82.770
		60		14.688	.656	107.500
		80		14.314	.844	136.610
		100		13.938	1.031	164.820
		120		13.564	1.219	192.430
		140		13.124	1.438	223.640
		160		12.814	1.594	245 .250

Pipe Dimensions						
Nominal Pipe Size Inches	Outside Diameter Inches	Schedule		Inside Diameter Inches	Wall Thickness Inches	Weight per Foot Lbs. Plain End
18	18.000	10		17.500	.250	47.390
		20		17.376	.312	58.940
			Std.	17.250	.375	70.590
		30		17.124	.438	82.150
			Ex Hvy.	17.000	.500	93.450
		40		16.876	.562	104.670
		60		16.500	.750	138.170
		80		16.126	.938	170.920
		100		15.688	1.156	207.960
		120		15.250	1.375	244.140
		140		14.876	1.562	274.220
		160		14.438	1.781	308.500
20	20.000	10		19.500	.250	52.730
		20	Std.	19.250	.375	78.600
		30	Ex Hvy.	19.000	.500	104.130
		40		18.814	.594	123.110
		60		18.376	.812	166.400
		80		17.938	1.031	208.870
		100		17.438	1.281	256.100
		120		17.000	1.500	296.370
		140		16.500	1.750	341.090
		160		16.064	1.969	379.170
22	22.000	10		21.500	.250	58.070
		20	Std.	21.250	.375	86.610
		30	Ex Hvy.	21.000	.500	114.810
		60		20.250	.875	197.410
		80		19.750	1.125	250.810
		100		19.250	1.375	302.680
		120		18.750	1.625	353.610
		140		18.250	1.875	403.000
		160		17.750	2.125	451.060
24	24.000	10		23.500	.250	63.410
		20	Std.	23.250	.375	94.620
			Ex Hvy.	23.000	.500	125.490
		30		22.876	.562	140.680
		40		22.626	.688	171.290
		60		22.064	.969	238.350
		80		21.564	1.219	296.560
		100		20.938	1.531	376.390
		120		20.376	1.812	429.390
		140		19.876	2.062	483.100
		160		19.314	2.344	542.130

*Some sizes available only by special orders.

Structural

ISOLITE PIPES

Is a galvanized steel pipe suitable for welding or for screwing.Structural grade pipe with a smooth finish. We stock most sizes in galvanized, threaded or plain end. Not suitable for preasure aplications.

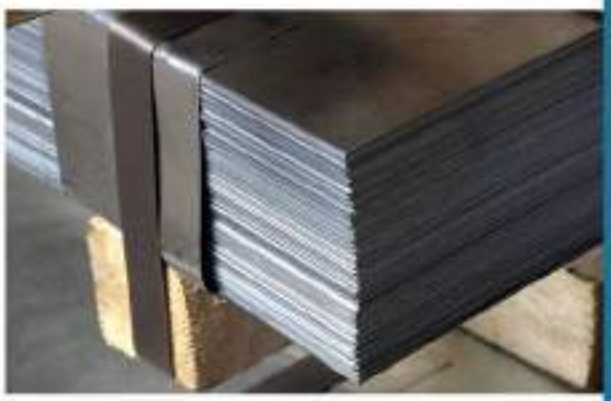
Specifications: BS 1387
Applications: Fence, Railings, etc.
Workability: Easy to Weld, Cut, Form and Machine

Galvanized Steel Pipe - ISOLITE

Size	Outside Dimension	Inside Dimension	Thickness	Weight Per Ft.	Weight Per Piece
1/2	0.841	0.691	0.075	0.670	13.400
3/4	1.059	0.894	0.083	0.855	17.100
1	1.328	1.135	0.097	1.405	28.100
1 1/4	1.670	1.477	0.097	1.400	28.000
1 1/2	1.903	1.699	0.102	2.085	41.700
2	2.370	2.166	0.102	2.640	52.800
2 1/2	2.991	2.755	0.118	3.530	70.600
3	3.491	3.255	0.118	4.330	86.600
4	4.481	4.225	0.128	5.615	112.300
5	5.563	5.295	0.134	7.770	155.400
6	6.625	6.357	0.134	9.290	185.800

Structural
STEEL SHEETS





Steel Sheets comes in grade ASTM A-36 This specification covers carbon steel plates for use in riveted, bolted or welded construction of bridges and buildings and for general structural purposes. Steel Sheets are also available in grade ASTM A-572 Grade 50 and ASTM A-529 Grade 50. This specification covers five grades of high-strenght low-alloy structural steel plates intended for bolted constructions of bridges, or for bolted or welded construction in other applications.

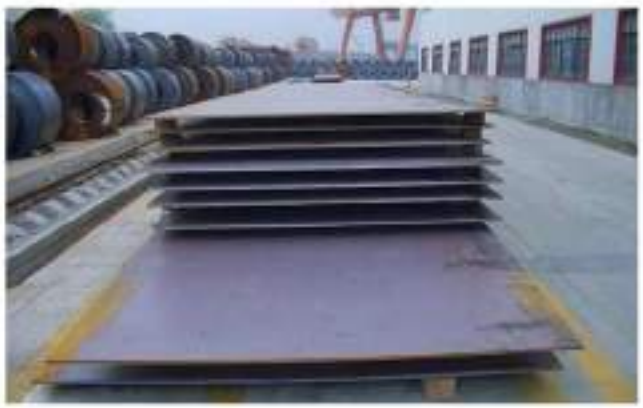
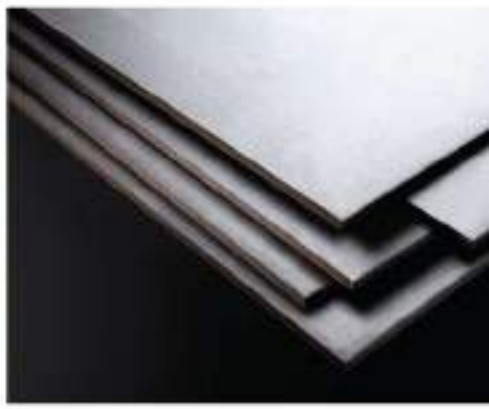
Hot Rolled Steel Sheets

Gauge Number	Stock Sizes Inches	Wt. Per sq. ft.	Wt. Per Sheet
16 Ga.	48 x 96	2.500	80.0
	48 x 120	2.500	100.0
	48 x 144	2.500	120.0
	60 x 96	2.500	100.0
	60 x 120	2.500	125.0
	60 x 144	2.500	150.0
14 Ga.	48 x 96	3.125	100.0
	48 x 120	3.125	125.0
	48 x 144	3.125	150.0
	60 x 96	3.125	125.0
	60 x 120	3.125	156.3
	60 x 144	3.125	187.5
12 Ga.	48 x 96	4.375	140.0
	48 x 120	4.375	175.0
	48 x 144	4.375	210.0
	60 x 96	4.375	175.0
	60 x 120	4.375	218.8
	60 x 144	4.375	262.5
	72 x 120	4.375	262.5
	72 x 144	4.375	315.0

Hot Rolled Steel Sheets

Gauge Number	Stock Sizes Inches	Wt. Per sq. ft.	Wt. Per Sheet
11 Ga.	48 x 96	5.000	160.0
	48 x 120	5.000	200.0
	48 x 144	5.000	240.0
	60 x 96	5.000	200.0
	60 x 120	5.000	250.0
	60 x 144	5.000	300.0
	72 x 120	5.000	300.0
	72 x 144	5.000	360.0
	72 x 240	5.000	600.0
10 Ga.	48 x 96	5.625	180.0
	48 x 120	5.625	225.0
	48 x 144	5.625	270.0
	60 x 96	5.625	225.0
	60 x 120	5.625	281.3
	60 x 144	5.625	337.5
	72 x 120	5.625	337.5
	72 x 144	5.625	405.0
	72 x 240	5.625	675.0

Structural
HOT ROLLED PLATES

Steel Plate, also known as Hot Rolled A-36 Steel Plate is a structural quality steel plate used for a large variety of general construction and industrial applications. We also offer Corten Plates A-572, A-588 in different sizes, stainless steel and aluminum.

Specifications: ASTM A-36, AISI A-36 (Grade 50 also available)
Applications: base plates, gussets, liners, road plates, trench covers, etc.
Workability: Easy to Weld, Cut, Form and Machine.

AVAILABLE STOCK SIZES:
1/16", 1/8", 3/16", 1/4", 5/16", 3/8", 5/8", 7/8", 3/4", 1", 1 1/2", 2", 3".
Widths of 4', 5', 6', 8'
Lengths from 8' to 10', 12' & 20'

Hot Rolled Plate

Size (Inches)	Stock Sizes			Wt. Per Sq. ft.	Wt. Per Sheet
1/16	48	x	96	2.55	81.71
	48	x	120		102.13
	60	x	120		127.67
1/8	48	x	96	5.10	163.2
	48	x	120		204
	60	x	120		255
	60	x	144		306
	72	x	120		306
	72	x	144		367.2
5/16	96	x	480	12.76	4083.2
3/8	96	x	240	15.32	2451.2
	96	x	288		2941.44
	96	x	360		3676.8
	96	x	480		4902.4
	120	x	240		3064
	120	x	480		6128
7/16	96	x	480	17.87	5718.4

HOT ROLLED PLATE SIZES

Hot Rolled Plate					
Size (Inches)	Stock Sizes			Wt. Per Sq. ft.	Wt. Per Sheet
1/2	96	x	240	20.42	3267.2
	96	x	360		4900.8
	96	x	480		6534.4
	120	x	240		4084
	120	x	480		8168
5/8	96	x	240	25.53	4084.8
	96	x	360		6127.2
	96	x	480		8169.6
	120	x	480		10212
3/4	96	x	240	30.63	4900.8
	96	x	480		9801.6
	120	x	480		12252
1	96	x	240	40.84	6534.4
	96	x	480		13068.8
	120	x	480		16336
1 1/8	96	x	240	45.95	7352
1 1/4	96	x	240	51.05	8168
1 3/8	96	x	240	56.16	8985.6
1 1/2	96	x	240	61.27	9803.2
1 5/8	96	x	240	66.37	10619.2
1 3/4	96	x	240	71.47	11435.2
2	96	x	240	81.68	13068.8
2 1/2	96	x	240	102.10	16336
2 3/4	96	x	240	112.31	17969.6
3	96	x	240	122.52	19603.2
3/16	48	x	96	7.66	245.04
	48	x	120		306.30
	48	x	144		367.56
	48	x	240		612.60
	60	x	120		382.87
	60	x	144		459.44
	60	x	240		765.74
	72	x	120		459.45
	72	x	240		918.90
	96	x	240		1,225.60
	120	x	480		3,064.00
1/4	48	x	96	10.21	326.72
	48	x	120		408.40
	48	x	144		490.08
	48	x	240		816.80
	60	x	120		510.50
	60	x	144		612.60

Hot Rolled Plate					
Size (Inches)	Stock Sizes			Wt. Per Sq. ft.	Wt. Per Sheet
	60	x	240		1,021.00
	72	x	120		612.60
	72	x	240		1,225.20
	84	x	240		1,429.39
	96	x	240		1,633.59
	96	x	480		3,267.20
	120	x	480		4,084.00
5/16	48	x	96	12.76	408.32
	48	x	120		510.40
	48	x	144		612.48
	48	x	240		1,020.80
	60	x	120		638.00
	60	x	144		765.60
	60	x	240		1,276.00
	72	x	240		1,531.50
	84	x	240		1,786.74
	96	x	240		2,042.00
	96	x	480		4,083.20
	120	x	480		5,104.00
3/8	48	x	96	15.32	490.08
	48	x	120		612.60
	48	x	144		735.36
	48	x	240		1,225.20
	60	x	120		765.75
	72	x	120		919.20
	72		240		1,837.79
	84	x	240		2,144.09
	96	x	240		2,450.39
	96	x	360		3,676.80
	96	x	480		4,902.40
	120	x	240		3,064.00
	120	x	480		6,128.00
1/2	48	x	96	20.42	653.44
	48	x	120		816.80
	48	x	144		980.16
	60	x	120		1,021.00
	72	x	120		1,225.20
	72	x	240		2,450.39
	84	x	240		2,858.79
	96	x	240		3,267.19
	96	x	360		4,900.80
	96	x	480		6,534.40

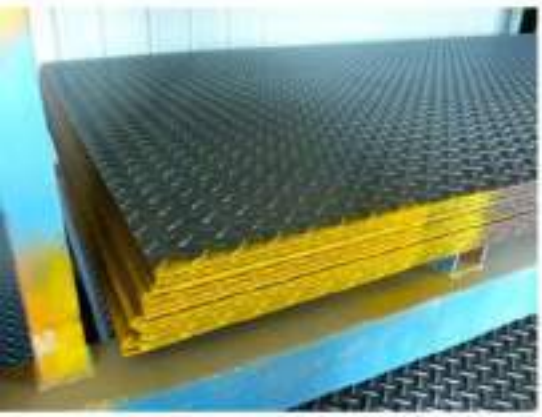
Structural

HOT ROLLED PLATE SIZES

Hot Rolled Plate				
Size (Inches)	Stock Sizes		Wt. Per Sq. ft.	Wt. Per Sheet
	120 x 240			4,084.00
	120 x 480			8,168.00
5/8	48 x 96		25.53	816.96
	48 x 120			1,021.20
	48 x 240			2,042.00
	60 x 120			1,276.50
	72 x 120			1,531.80
	84 x 240			3,573.49
	96 x 240			4,083.98
	96 x 480			8,169.60
3/4	48 x 96		30.63	980.16
	48 x 120			1,225.20
	60 x 120			1,531.49
	72 x 240			3,675.59
	84 x 240			4,288.18
	96 x 240			4,900.78
	96 x 480			9,801.60
7/8	96 x 240		35.74	5,718.40
1"	48 x 96		40.84	1,306.88
	48 x 120			1,633.60
	48 x 240			3,267.19
	60 x 120			2,042.00
	72 x 120			2,450.39
	72 x 240			4,900.78
	84 x 240			5,717.58
	96 x 240			6,534.37
	96 x 480			13,068.80
1-1/8	96 x 240		45.95	7,352.00
	120 x 240			9,190.00
1-1/4	48 x 96		51.05	1,633.59
	48 x 120			2,042.00
	48 x 240			4,083.98
	60 x 120			2,552.50
	72 x 240			6,125.98
	96 x 240			8,167.96
1-1/2	48 x 96		61.27	1,960.64
	48 x 120			2,450.80
	48 x 240			4,900.78
	60 x 120			3,063.50
	48 x 96			3,063.50
	96 x 240			9,801.56
1-3/4	48 x 96		71.47	2,287.04
	48 x 120			2,858.80

Hot Rolled Plate				
Size (Inches)	Stock Sizes		Wt. Per Sq. ft.	Wt. Per Sheet
1-3/4	96 x 240			11,435.20
2	48 x 96		81.68	2,613.76
	48 x 120			3,267.20
	48 x 240			6,534.40
	96 x 240			13,068.80
	48 x 240			7,351.20
	96 x 240			14,702.40
2-1/2	48 x 96		102.10	3,267.20
	48 x 240			8,168.00
	96 x 240			16,336.00
2-3/4	48 x 96		112.31	3,593.20
	96 x 240			17,969.60
3	48 x 96		122.52	3,920.64
	96 x 240			19,603.20
3-1/2	48 x 96		142.94	4,574.08
	96 x 240			22,870.40
4	48 x 96		163.36	5,227.52
	48 x 240			13,068.80
4-1/2	48 x 96		183.78	5,871.36
	96 x 240			29,404.80
5	48 x 96		204.20	6,534.40
	96 x 120			16,336.00
	96 x 240			32,672.00
5-1/2	60 x 120		224.61	11,230.50
	60 x 240		224.61	22,461.00
	60 x 480		224.61	44,922.00
6	60 x 240		245.03	24,503.00
	60 x 480		245.03	49,006.00
	72 x 120		245.03	14,701.80
	72 x 240		245.03	29,403.60
	96 x 120		245.03	19,602.40
	96 x 240		245.03	39,204.80
6-1/2	96 x 120		265.45	21,236.00
	96 x 240		265.45	42,472.00
7	60 x 120		285.87	14,293.50
	60 x 240		285.87	28,587.00
	96 x 120		285.87	22,869.60
	96 x 240		285.87	45,739.20
8	60 x 120		326.71	16,335.50
	60 x 240		326.71	32,671.00
10	84 x 120		408.38	28,586.60

Structural
FLOOR PLATE



This raised lug pattern often takes on a diamond shape, making it commonly referred to as diamond plate. Individual floor plate patterns are manufactured exclusively by each producer of floor plate products, including diamond plate patterns. Although there may be a close resemblance, floor plates from different manufacturers are not identical in dimension or appearance of "lugs".

Specifications: ASTM A-36, AISI A-36
(Grade 50 also available)
Applications: base plates, liners,
road plates, trench covers, etc.
Workability: Easy to Weld, Cut, Form and Machine.

MCHANICAL PROPERTIES:

ASTM A-36
Tensile 58,000 to 80,000
Yield 36,000
Elongation 23

ASTM A-572
Tensile 65,000
Yield 50,000
Elongation 21

*Some sizes available only by special orders

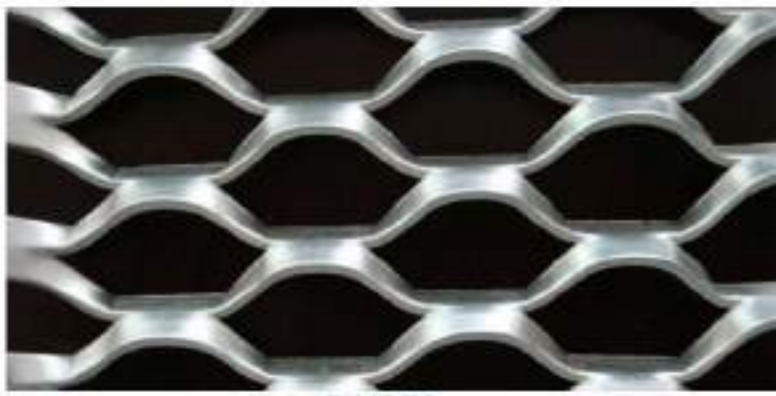
Floor Plate

Thickness	Stock Sizes (inches)	Wt. Per Sq. Ft.	Wt. Per Piece
1/8	48 x 96	6.16	197.12
	48 x 120		246.25
	48 x 144		295.68
	48 x 240		492.49
	60 x 120		307.81
	60 x 240		615.62
3/16	48 x 96	8.71	278.67
	48 x 120		348.34
	48 x 240		696.80
	60 x 120		435.43
	60 x 240		870.86
	72 x 240		1,045.03
	96 x 240		1,393.60
1/4	48 x 96	11.26	360.36
	48 x 120		450.45
	48 x 240		900.89
	60 x 240		1,126.12
	72 x 240		1,351.34
	96 x 240		1,801.60
5/16	48 x 120	13.81	552.40
	48 x 240		1,104.80
	60 x 240		1,381.00
	72 x 240		1,657.20
	96 x 240		2,209.60
3/8	48 x 120	16.37	654.80
	48 x 240		1,309.28
	60 x 240		1,636.60
	72 x 240		1,963.96
	96 x 240		2,618.56
1/2	48 x 120	21.47	858.80
	48 x 240		1,717.60
	60 x 240		2,147.00
	96 x 240		3,435.20
5/8	96 x 240	26.58	4,252.80
3/4	96 x 240	31.68	5,068.80
1	96 x 240	41.89	6,702.40

Structural

EXPANDED METAL - MDI

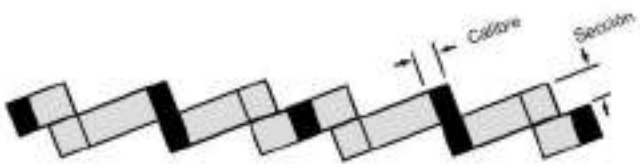
FLAT



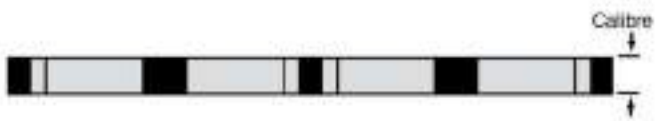
RAISED

Is a metal mesh formed in one piece, without seam or welding, which has a series of openings of uniform size in the form of rhomb or diamonds. It is made by a die-cutting process to the rolls of steel sheets, which allows to develop multiple designs of mesh. Available in Black Steel, Aluminium, Galvanized and Stainless Steel

RAISED
Is the Natural Deployed Metal without additional finishing, material that is applied when greater strength and structural strength is required.

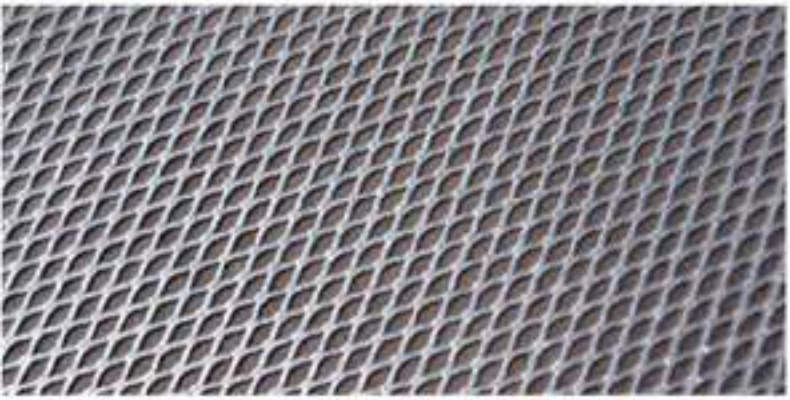


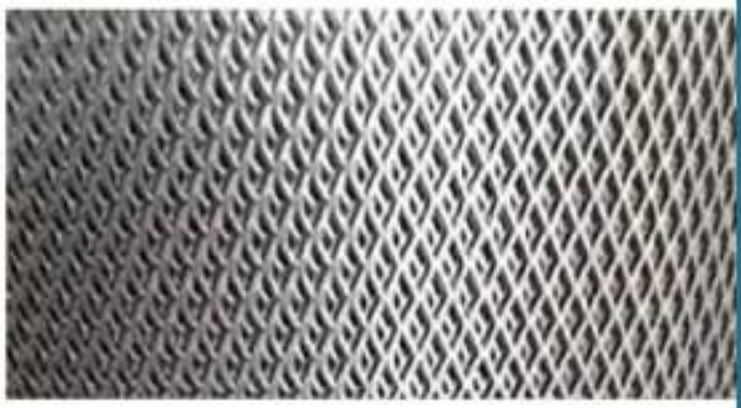
FLAT
Is the Iron Expanded Metal that is used in the manufacture of those products in which a finishing free of rough edges is desired.



AVAILABLE SIZE: 4 ft. x 8 ft.

EXPANDED METAL- MOSQUITOES





It is a sturdy steel mesh with small openings designed to prevent the passage of insects, offering greater security for its strength. It is the ideal product to be applied as mesh mosquito nets in doors and windows, surpassing for its strength, resistance, durability and economy compared to the traditional and fragile wire and plastic meshes.

Available:
Galvanized and Aluminium

Sizes:
3ft. x 7ft. - Galvanized and aluminium
4ft. x 8ft. - Aluminium

Structural

EXPANDED METAL - EXAMPLES


Gótico PR


GR-2100 MR LN

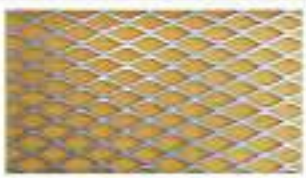

3/8" #16A MR LN


1/2" # 16 PR LN


1/2" # 11 MR LN


1/2" # 16A PR LN


3/4" #9 MR LN


1/2" # 13 PR LN


1" #6 MR LN


3/4" # 16 PR LN


1 1/2" # 6 MR LN


3/4" # 13 PR LN


GR-1500 MR LN


3/4" # 9 PR LN

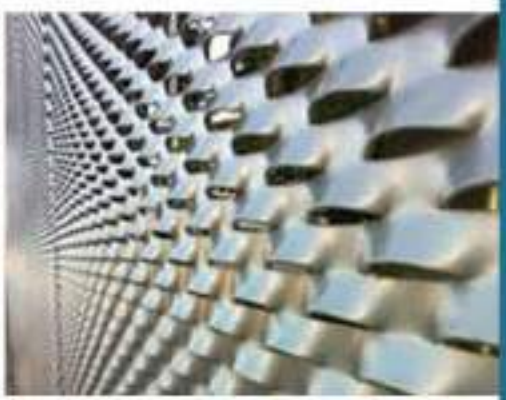
Available:


Galvanized Saddle Clips


U Channel Borders

Structural
LOUVER MESH



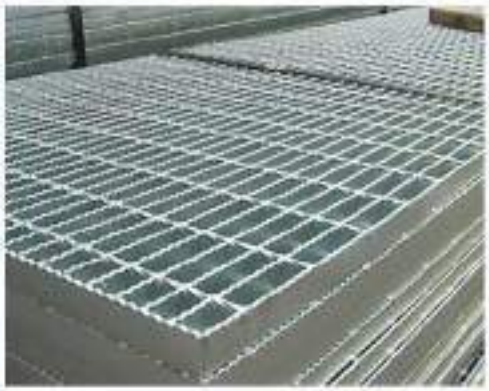


The Louver mesh has several applications, including a revolutionary security barrier, ideal for perimeter fences. The louver helps to cross the wind. With this application the level of protection is higher, and installs easily with very low cost.

In protection applications, this deployed low-lying area provides:
- Anti-Scale Barrier
- Cut resistant
- Visual privacy

Using heavy gauges, the Louver mesh has multiple applications:
- Perimeters for oil or chemical installations
- Perimeter security
- Anti-shock barriers
- Prison facilities - Military bases

Structural
STEEL GRATINGS


Steel Bar Grating, also known as Welded Steel Bar Grate, is extremely strong and durable for all load bearing applications and is primarily used for pedestrian and light vehicle traffic. This type of welded mesh wire provides advantages like high strength, easy installation and feasible cost. It is also used for grating roads, making drainage coverings and building safety walls. It also has uses in chemical plantation, platform grating, metallurgy etc.

Steel bar grating is available in a variety of bearing bar spacing and thicknesses depending on applications and load requirements. Available in either smooth top or serrated for slip resistance.

Specifications: 19W4, Carbon Steel, Painted Black, hot dipped galvanized.
Applications: Walkways, flooring, ramps, bridge flooring, trench and drainage covers, mezzanines, platforms, stair treads, etc.

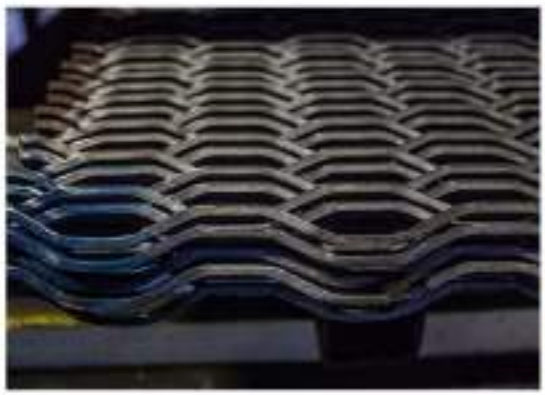
Workability: Easy to Weld, Cut, Form and Machine

Mechanical Properties:
Tensile 58,000 +/-
Yield 42,000 +/-

How is it Measured?
Bar thickness X bar height, Bearing bars run parallel to each other, the length of the panel.

Available Stock Sizes:
3ft. x 10ft.
Standard high: 1", 1 1/4" and 1 1/2".
Special Orders High: 2", 2 1/2" and 3".

Structural
EXPANDED GRATING

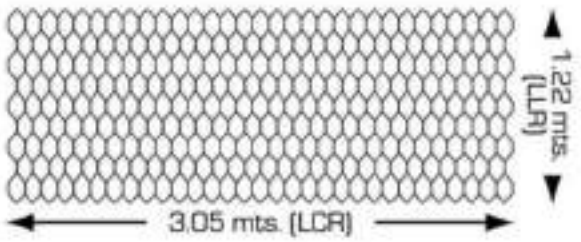




The expanded grating is the alternative to the electro-welded grating. This product is made from steel plate, and It has no welds or seams.

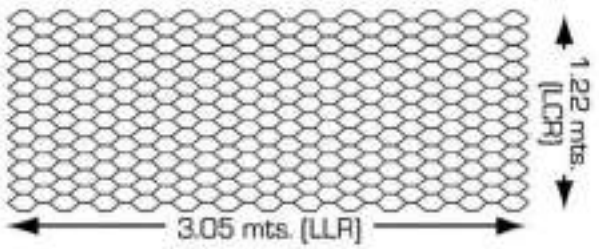
Available:
Comes in 3 lb. with 3/16" of thickness and in 4lb.with 1/4 of thickness.
Black Steel and Galvanized

Size:
4ft. x 8ft.

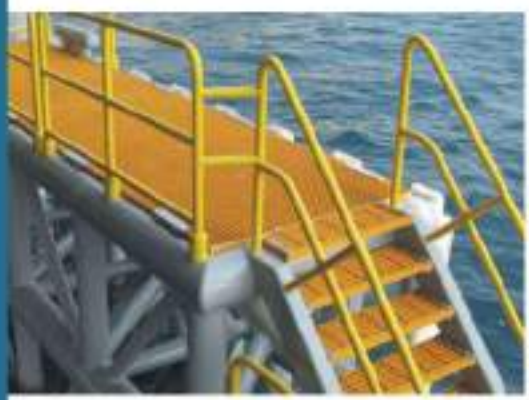
GR -1500 CW (3 Lbs. Grating CW)

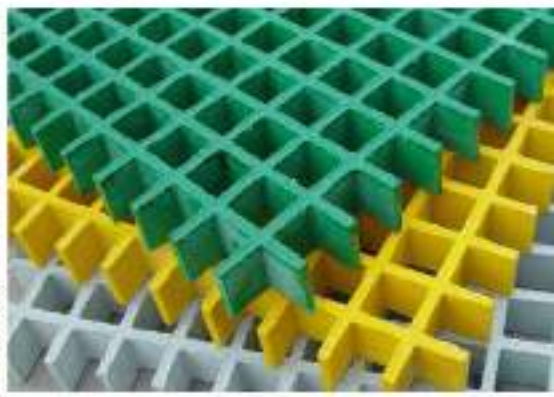


GR-1500 (3 Lbs. Grating)



Structural
FIBER GLASS GRATINGS





Molded fiberglass grating is a good choice when a lightweight, corrosion-resistant and high impact resistant material is desired. Under normal use, the available grit surface will not bend or dent and provides excellent, long lasting slip resistance in a variety of surface conditions.

Molded fiberglass grating is a fiberglass-reinforced polymer (FRP) that combines fiberglass rovings with thermosetting resins to form a strong, one-piece molded panel. A 65%/35% resin to glass weight ratio provides high corrosion resistance. Meniscus fiberglass flooring surfaces or applied grit fiberglass flooring surfaces provide slip resistance when compared to other flooring products. This fiberglass product is better suited for corrosive environments.

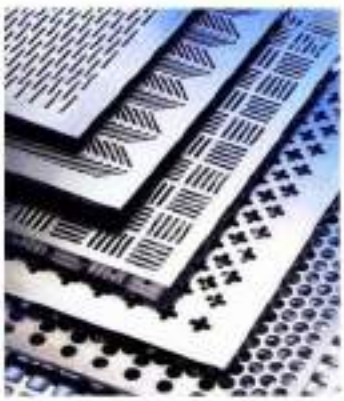
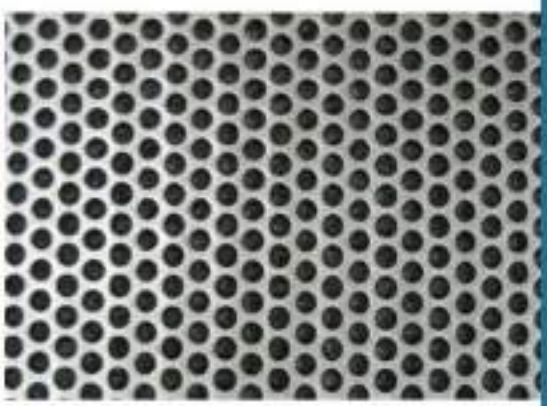
Important Features of Molded Fiberglass Grating:

- High corrosion resistance
- Bi-directional strength
- Lightweight - 1/3 the weight of steel
- High impact resistance
- Long service life
- Low thermal conductivity
- Non-conductive
- Easy to fabricate
- Skid resistance
- UV inhibitors

SPECIFICATIONS:
IFR-25: Premium isophthalic polyester resin with a fire retardant class 1 flame spread rating of 25 or less per ASTM - E84. Provides a very good level of chemical resistance for industrial applications and is fire retardant.

Available in dark gray, green and yellow.

Structural
PERFORATED METAL

Perforated metal applications are many and varied. Some of them are typical of this industry for many years and others are new designs because Perforated Metal becomes increasingly popular.

Engineers, designers and architects are finding more and more uses for Perforated Metal in its different presentations in design and materials such as:

- Outdoor Bench
- Baskets and Bins
- Screens and Drums
- Architectural Elements
- Dust Extractors
- Air and Oil Filters
- Mufflers and Exhaust Pipes
- Garden Furniture
- Ceiling Panels
- Lighting Screens
- Radios and Radars
- Refrigerators
- Vents
- Grain Dryers and Sorters
- Acoustic System
- Fruit Crushers

CONSTRUCTION MATERIALS

Construction Materials

Lumber

Laminated Plywood

Construction Plywood

Fittings

Gates

Ornamental

Hardware

Safety Accesories

Chemicals

Tools

Construction Materials

LUMBER



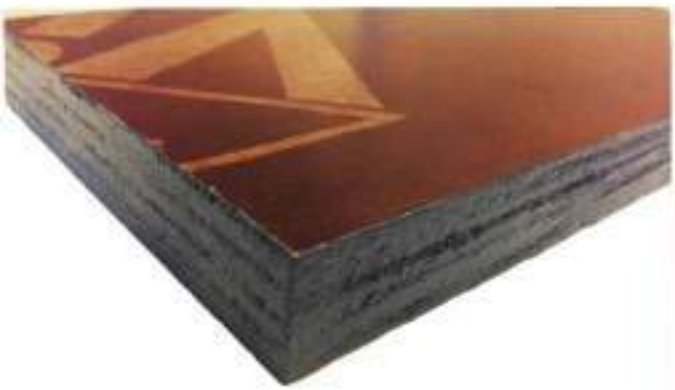
The construction market is divided into the different species of trees from which the product is cut. The usual species in our market are Douglas Fir, Hem Fir, Spruce and Southern Yellow Pine (SYP). But the local market is concentrating mainly on the SYP or better known as pine since it is of great hardness and low cost.

It is sold per unit and marketed from 2" x 4" to 2 "x 12". Their lengths range from 8' to 20'.

The pine is also traded treated. This treatment is a chemical injection process that delays the decomposition due to its exposure to humidity, termites and the weather.

Also available wood batten raw, in size 1"x 4".

Construction Materials
FILM FACED PLYWOOD



The film faced plywood is a layered panel. Its great advantage is that the two outer faces are covered in a smooth and strong finished laminate. For example 125 Gr / m2. These two faces are the ones that are in contact with the concrete leaving a smooth finish once stripped. Among the advantages of this product, stands out its rate of uses and the significant saving by reducing plastering process.

Description:
Vimasa 9 layer 125 G/m2
Size: 4ft x 8ft. x 3/4in. (thickness)

Construction Materials

CONSTRUCTION PLYWOOD

The construction plywood is made on mills and constructed from sheets compressed and glued. Its used mostly in the construction industry at formwork. It is recommended that its edges be sealed whenever it is cut.

The C + / C + plywood is a layered panel where its two outer faces are mashed and sanded to give it a porous but uniform finish. This panel is usually marketed in its OES variant. This means that O = Oiled in factory-cleaned with non-stick chemicals for easy stripping and with sealed edges (ES = Edge Sealed) with paint to delay or prevent the panel from peeling off as any material enters its edges.The other side is maintained with the natural imperfections of the manufacturing process.

Construction Materials

FENCE FITTINGS

Aluminium Gate Corner: 1"

Brace Band: 1 1/2"
Brace Band: 2"
Brace Band: 2 1/2"
Brace Band: 3"

Aluminium Loop cap: 1 1/2" x 1"
Aluminium Loop Cap: 2" x 1 1/4"

Tension Band: 1 1/4"
Tension Band: 1 1/2"
Tension Band: 2"
Tension Band: 2 1/2"
Tension Band: 3"

Aluminium Post Cap: 1"
Aluminium Post Cap: 1 1/4"
Aluminium Post Cap: 1 1/2"
Aluminium Post Cap: 2"

Clamp with bar: 4"

Aluminium Post Cap 1 way: 1 1/2"

Female Gate Hinge: 1"
Male Post Hinge: 2"

Aluminium Post Cap 2 way: 1 1/2"

Sleeve: 1" x 6"
Sleeve: 1 1/4"x 6"
Sleeve: 1 1/2 x 6"
Sleeve: 2"x 6"

Aluminium Rail End: 1"
Aluminium Rail End: 1 1/4"

Tension Bar: 5/8" x 4"
Tension Bar: 5/8" x 5"
Tension Bar: 5/8" x 6"
Tension Bar: 5/8" x 8"

Barb Arm 3 Way: 1 1/2" x 1 1/4"
Barb Arm 3 Way: 2" x 1 1/4"
Barb Arm 6 Way: 1 1/2" x 1 1/4"
Barb Arm 6 Way: 2" x 1 1/4"

Galv. Bolts w/n: 5/16" x 1 1/4"
Galv. Bolts w/n: 5/16" x 2"
Galv. Bolts w/n: 5/16" x 2 1/2"
Galv. Bolts w/n: 5/16"x 3"
Galv. Bolts w/n: 3/8" x 2 1/2"

Fence Barrier
Sizes: 4'pieces
50 items per box

Cyclone Fence: #9.5 - 4' x 50'
Cyclone Fence: #9.5 - 5' x 50'
Cyclone Fence: #9.5 - 6' x 50'

Boulevard Clamp: 1 1/2"x 1"
Boulevard Clamp: 1 1/2"x 1 1/4"
Boulevard Clamp: 2"x 1"
Boulevard Clamp: 2" x 1 1/4"

End Rail Clamp: 1 1/2"x 1"
End Rail Clamp: 1 1/2"x 1 1/4"

Construction Materials

GATES HARDWARE

Trolley Rail
Sizes: 8ft. and 10ft.

Security Lock
Double Cilinder
Dead Bolt

Trolley Rail Bracket

Security Lock
Double Cilinder
Hook

Trolley Rail Truck

Lock Box
Double

Rubber Guide for Gates
Sizes: 3 in. and 6 in.

Lock Box
Simple

Gate Wheel
Double Bearing
Size: 4in.

Wheel Box
for Gates
Galvanized
Size: 4 in.

Cast Iron Wheel
Size: 6in.

Slide Bolt
Galvanized
Size: 1/2 in.

Cast Iron Wheel
Size: 4in.

Unassemble Latch
Galvanized

Plastic Caps
For Tubes
Sizes: 1"x 1", 1"x 2", 2"x 2", 3"x 3"
and 4"x 4"

Latch
Galvanized
Size: 18 in.

Floor Plate
Size: 4" x 4"

Floor Flaner
Size: 1-1/4"

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Construction Materials

ORNAMENTAL

Cast Iron
Item: SOR004G

Cast Iron
Item: SNUDO251H

Cast Iron
Item: SOR006G

Cast Iron
Item: S251-H

Cast Iron
Item: SOR007G

Cast Iron
Item: SBB

Cast Iron
Item: S656

Cast Iron
Item: SKK

Cast Iron
Item: SOR006G

Cast Iron
Item: SHH

Cast Iron
Item:SOR001G

Cast Iron
Item: SOR310G

Cast Iron
Item: S832

Cast Iron
Item: S104

Cast Iron
Item: S832

Cast Iron
Item: S109

Cast Iron
Item: SCAP1X1

Cast Iron
Item: SBRACT606G

Construction Materials

ORNAMENTAL

Forged Steel
Item: SART802/1

Forged Steel
Item: SOR606G

Forged Steel
Item: SARTRAD619

Forged Steel
Item: SART1435

Forged Steel
Item: SART26/C/1

Cast Iron Decorative
Item: S147

Forged Steel
Item: S405

Cast Iron Decorative
Item: S150

Cast iron Decorative
Item: S618

Cast Iron Decorative
Item: S19

Forged Steel
Item: SART409

Forged Steel
Item: SART159/3

Cast Iron
Item: SCAPBOLA4

Cast Iron Decorative
Item: S680SF

Forged Steel
Item: SART417G

Cast Iron Decorative
Item: S639

Forged Steel
Item: SCIRCLE

Cast Iron
Item: 631

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Construction Materials

ORNAMENTAL

Forged Steel
Item: S53

Forged Steel
Item: S64

Forged Steel
Item: SART604

Cast Iron Decorative
Item: S1345

Forged Steel
Item: SR148

Cast Iron Decorative
Item: S63

Cast Iron Decorative
Item: S65X

Forged Steel
Item: SR143

Any Customized Design

Construction Materials

HARDWARE

Wire Mesh
Sheet
W1.4; 6"x6"; 7'-2" x 19"
W2.9; 6"x6"; 7'-2" x 19"

Wire Mesh
Roll
W1.4; 6"x6"; 5' x 150'
W2.9; 6"x6"; 5' x 150'

Black Annealed Wire
Ga.16
70lb. Box
(20 rolls 3.5 lb. ea.)

Tie Wire Galvanized
G.16
Rolls: 2 lb & 5 lb

Epoxy Wire
G. 16
Rolls of 3.5 lb.

Wire Reel
For G.16 tire wire rolls
Can be worn on work belt

Tie Wire
Sizes: 4 1/2" & 6"
100 lb. Bag

Common Nails
Sizes: 2" & 4"
50 lb. box

Steel Nails
Sizes: 1 1/2" to 4"
50 lb. box

Hose Clamp
3 inches

Hinge

Galvalume
Colors: Green, Blue, Gray,
Red and White

Purlings
Sizes: 4", 6", 8", 10" and 12"
Ga. 16, 14 and 12
Build to customers size

Nelson Stud- Lifting Stud
Sizes: 1/2"x 4", 5/8" x 4", 3/4"x 4"
and 3/4" x 6"

Corner Bead
Vinyl
Sizes: 8ft. and 10ft.

Black Silt Fence
With stakes

STANLEY Measure Tape
25 ft.

Duck Tape
Gray
2" x 55 yds.

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Construction Materials
HARDWARE

Clear Polyethylene Sheeting
20ft x 100ft (2,000sqft)
4 and 6 mils thick

Welding Mask Lenses
Available: Clear, #10, #11, #12

Paint Brush
Sizes: 1" to 3"

Wheelbarrow
5 cubic feet.

Coconut Brush

Rubbermaid Drink Cooler
10 Gal.
With Cup Holder

Wire Brush
Wood Handle

Igloo Drink Cooler
3 Gal.
With Cup Holder

Yellow Rake
Wood Handle

4oz. Paper Cups
Box of 5,000.

Concrete Rake
Wood Handle

Blacksmith's Chalk

Hammer Hanger
Leather
Werable on belt
(Hammer not included)

Crayons
Available: Red & Yellow

Electric Extension Cord
50 ft

Tarps
20'x 20'
10'x 20'
12'x 20'

Construction Materials

HARDWARE

Bolts

Sizes: 1/4" to 2 1/2"

Gr. 2, Gr. 5, Gr. 8 and A 325

Available: Black, Galvanized and Stainless Steel 304

Nuts

Sizes: 1/4" to 2 1/2"

Gr. 2, Gr. 5, Gr. 8 and A 325

Available: Black, Galvanized and Stainless Steel 304

Washers

Sizes: 1/4" to 2 1/2"

Gr. 2, Gr. 5, Gr. 8 and A 325

Available: Black, Galvanized and Stainless Steel 304

Titen HD- Heavy Duty Screw Anchor

1/4" to 1" Diameter

1 3/4" to 8" Long

Wedge All- Wedge Anchor

1/4" to 1" Diameter

1 3/4" to 8" Long

Sleeve All- Sleeve Anchor

1/4" to 1" Diameter

1 3/4" to 8" Long

Action Threaded Rods

Size: 3/4" Diameter - 10 x 6 feet

Finish: Zinc Plated Blue

Anchor Bolt

3/8" to 1"

Special orders from 1" onwards.

Tek with Rubber

Sizes: 3/4", 1", 1 1/4", 1 1/2"

Construction Materials
SAFETY ACCESORIES

Safety Helmet
Available: green, red, blue, gray, Orange, black, yellow, white.

Dust Mask
3M 8,000 N/95

Safety Glasses
Available:
Regular (Clear), Gray and Yellow.

Work Gloves

Mason Gloves

Welding Gloves
Available:
Light Blue y Dark Blue

Driver Gloves

Fluorescent Safety Vest
Available:
Green and Orange

Rubber Boot 16"

Safety Mesh
Orange

Warning Flag
Orange

Warning Tape
Available: Yellow (CAUTION)
Red (DANGER)

Rebar Safety Caps
Available: Small and Large
OSHA approved

Rebar Safety Caps
ECONO-O-GUARD™
Available from #3 to #18

Rachet Tiedown
2" x 27'

Welding Vest

Welding Face Shield
With helmet

Safety Goggles

Construction Materials

Chemicals

Contact Cement
Industrial
5 Gal.

Rebar Epoxy Green Paint
Spray

Bond Super Agent Blue
5 Gal.

Cartridge Epoxy
For Gun
22 fl oz

Metal Finishes
Red Oxide
5 Gal.

Gun 300 M
Manual - Epoxy

Metal Finishes
Red Oxide
1 Gal.

Epoxy Mixing Nozzle

Metal Finishes
Gray Oxide
5 Gal.

Fast Dry
Black Paint
1 Gal.

Metal Finishes
Gray Oxide
1 Gal.

Fast Dry
White Paint
1 Gal.

Cold Galvanized
1 Gal.

Cold Galvanized
Spray

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Construction Materials

POWER TOOLS

Chop Saw
DeWALT - Mo.D28720
15 amp.

Circular Saw
DeWalt- Mo. DW494
19 amp.

Angle Grinder
DeWALT - Mo.DWE4212
7.5 amp.

Angle Grinder
DeWalt- Mo. DWe4212
11 amp.

Hammer Drill
DeWALT - Mo.DW505
8.2 amp.
1/2" Head

Grinder
DeWalt - Mo. DW494
19 amp.

Grinder
Hitachi - Mo.G 12SR2
19 amp.

Rotary Hammer
Hitachi - Mo. DH38YE
8 amp.

Hammer Drill
Hitachi - Mo.DV 20VB2
8.3 amp.
3/4" Head

Rotary Hammer
Makita - Mo. HR4041C
12 amp.
1 9/16" Head

Reciprocating Saw Blade
High Performance Bi-Metal
14/18 TPI
Sizes: 8" and 6"

Reciprocating Saw Blade
High Performance Bi-Metal
14 TPI
Size: 6"

Construction Materials

TOOLS

STUD Cutter
DW8003 - 14"x 7/64" x 1"
For light gage materials less than 1/8"

Carbon Knot Cup Brush
DeWalt Mo. 4910
Size: 3"

Piranha Lumber Disc
Black & Decker Mo. 40T
7 1/4" - For finishing

Zirconia Flap Disc
DeWalt Mo. Dw 8306
Size: 4 1/2" x 7/8"

Piranha Lumber Disc
Black & Decker Mo. 24T
7 1/4" - For general purpose.

Zirconia Flap Disc
DeWalt Mo. D8309
Size: 4 1/2" x 7/8"

Metal Grinder
DeWalt Mo. DW44540
Size: 4 1/2"x 1/4"x 7/8"

Zirconia Flap Disc
DeWalt Mo. D8309
Size: 4 1/2" x 7/8"

Metal / Stainless Cutting
DeWalt Mo. DW8427
Size: 7"x .045"x 7/8"

Zirconia Flap Disc
DeWalt Mo. D8308-AR
Size: 4 1/2" x 7/8"

Metal Griding
Ja Flex
Size: 7"x 1/4"

Percusion Bits
Sizes: From 5/32" to 1"

Boring Bits
Sizes: From 5/16" to 1 1/2"

Spline
DeWalt Mo. DW5773
Use with Chipping Hammer

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Construction Materials

TOOLS

Hacksaw Frame
For 12" Blades
Cast Aluminium Handle

Hacksaw
12" Blades

Hammer
20 oz.
Wood base

Hand Chisel
To use manualy with hammer

Pipe Wrench

Sledge Hammer
Fiber Glass Handle

Screwdriver

Pickaxe

Pick
Wood Handle

Square Shovel
Wood Handle

Cutting Shovel
Wood Handle

Round Shovel
Wood Handle

Trowel
Wood Handle

Rubber Grout Float
Wood Handle

Wood Float
Wood Handle

Dentate Float
Wood Handle

SERVICES

Services

Rebar Fabrication (Cut & Bent)

Assembly

Placing

Structural Steel Fabrications

Customized Fabrications

Shop Drawings

Manufacturing

Consulting - Design - Value Engineering

Estimating

Delivery

Surface coating (painting - oxide)

Services

Rebar Fabrication (Cut & Bent)

Our manufacturing work shops, with more than 46,824 square feet, have the most modern and precise manufacturing european machinery in the market.

Our elaborated drawings or sketches, shows the correct, easy and secure way to assemble a structure. Following the tightest specifications of the designer, with whom we work closely to achieve a successful work. Shop drawings show the way in which the steel must be manufactured. We accomplish this by being precisely in detailing the amounts, diameters, lengths and angles. Following the specifications of our drawing, the workshop will achieve to manufacture any piece no matter how complex or it's structural importance.

Services
Assembly



For those projects where quality and time are critical, we can assemble the structural elements whether they are beams, columns, footings, shafts, walls or barriers. We use cutting-edge methods including automated equipment with mechanisms that apply weld using steel under the ASTM A-706 standard. Also we dominate conventional mooring methods.



Services
Placing



With an experience of over 50 years in the industry, we have been part of jobs of high complexity. This experience along with the most dynamic and arranged group of professionals in the industry enable us to provide installation services on site to satisfy any work plan. This service offers advantages in time and execution of each job and ensures the structural integrity of the project.



Services

Structural Steel Fabrications

Cut, bend or perforate structural profiles, (steel, plates, channels, angles, beams) with the highest technology that allows us to satisfy the needs of our customers. Our specialized computerized program on cuts and perforations allow us to answer our customer's demands at its highest level. We also make anchor bolts for steel structures threaded and bent, made to our customers' specifications.

Your processing options:

Slitting and Cutting to length, Plasma Cutting, Sawing, Drilling, Coating, Metal Working, Bending, Welding, Punching and more.

Services

Customized Fabrications

Our plasma cutter machine, allows us to make any design in metal to be able to personalize your product. We can make plates for custom rod mounting, custom gates, comercial signs, perforated dividers, accents for the home or patio and much more, to your taste and style.

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Services

Shop Drawings

Our elaborated drawings show the correct, safe and easy way to build a structure. Everything following the strictest specifications of the designer, with whom we work hand in hand to achieve a successful work. The shop drawings show the way in which the steel must be made and placed. This is achieved by accurately detailing the quantities, diameters, angles and lengths. Following the specifications of our drawing, the workshop will be able to manufacture any piece regardless of its complexity or structural importance

Services
Manufacturing



Our workshops, with more than 44,365 square feet and conformed with the most complete and precise manufacturing machinery existing in the market complement our already recognized service of excellence. We manufacture your design following the highest quality standards that govern the industry. Some of our works consist on:

- Tanks
- Railings
- Galvalum Roof Decking
- Light Weight Structures
- Stairs
- Waste Containers
- Mezzanines



Services
Additional Specialties

Consulting - Design - Value Engineering

With a background of more than 50 years as leaders in the construction industry, we hold in our curriculum the most specialized structures and applications. This includes and not limited to tunnels, bridges, piers, pharmaceuticals, dams, multi-story buildings and silos among others. This background provides the expertise to evaluate your design and provide optimized alternatives that will save time and money. All this for reinforced concrete and structural steel structures.

Among the solutions available for reinforced concrete, we can providean evaluation considering the addition of post-tensioning strand to slabs and beams, change the slab-beams design for a flat plate or a combined reinforcing system including reinforcing steel and post-tensioning strand.

Structural steel buildings can be evaluated and optimized according to the most technologically advanced materials available on the steel world. Our wide variety of stock material will allow the designer to select any profile that suits every structural need. We offer solutions, contact our specialists for further details.

Estimating

Our estimating department, with a combined background of more than 40 years of experience, will estimate your job on time and on budget. Our team is fully detail and service oriented. They will understand every job at any complexity level providing a breakdown detailed to the last item. As leaders in the steel industry, we aim to excellence. If you require an estimate for structural steel or reinforcing steel, please contact us for further details.

Delivery

Steel Services and Supplies has a logistics department that handles all our imports and exports from all over the world. With a vast experience and resources, we are in the position to offer delivery options either inland or maritime.

Our truck fleet will deliver any product or material on time and on schedule. Let our experienced team handle your logistics needs for products and materials at any complexity level.

Surface Coating (Painting - Oxide)

To work on schedule and on budget is the challenge that every fabricator must face. As your partners, we offer coating services that will save you time and will narrow your costs. We can provide our structural steel products with an oxide coating. This will ease your labor and expedite the delivery of your work.

Steel plates, channels, beams or any other miscellaneous fabrication or stock material can be delivered properly coated. Please contact us for further details.

Projects

Maunabo Tunnels

Urban Metro

Crowley Terminal (San Juan)

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Projects

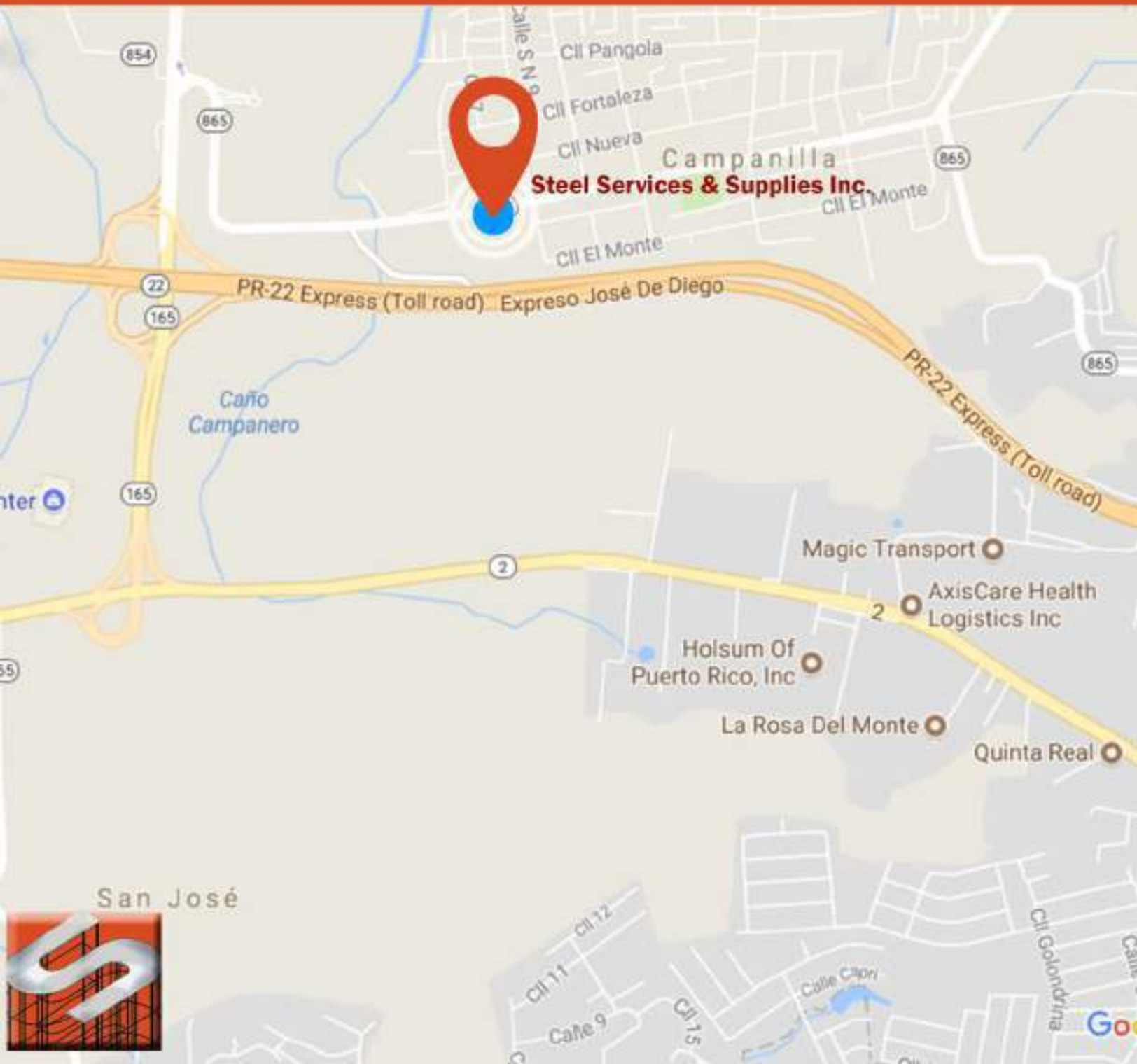
Santa Isabel Windmills

Statue of Christopher Columbus

Comprehensive Cancer Center

LOCATION

Steel Services & Supplies Inc.
Campanillas Ward
road 865 km 1.2
Toa Baja, PR. 00949



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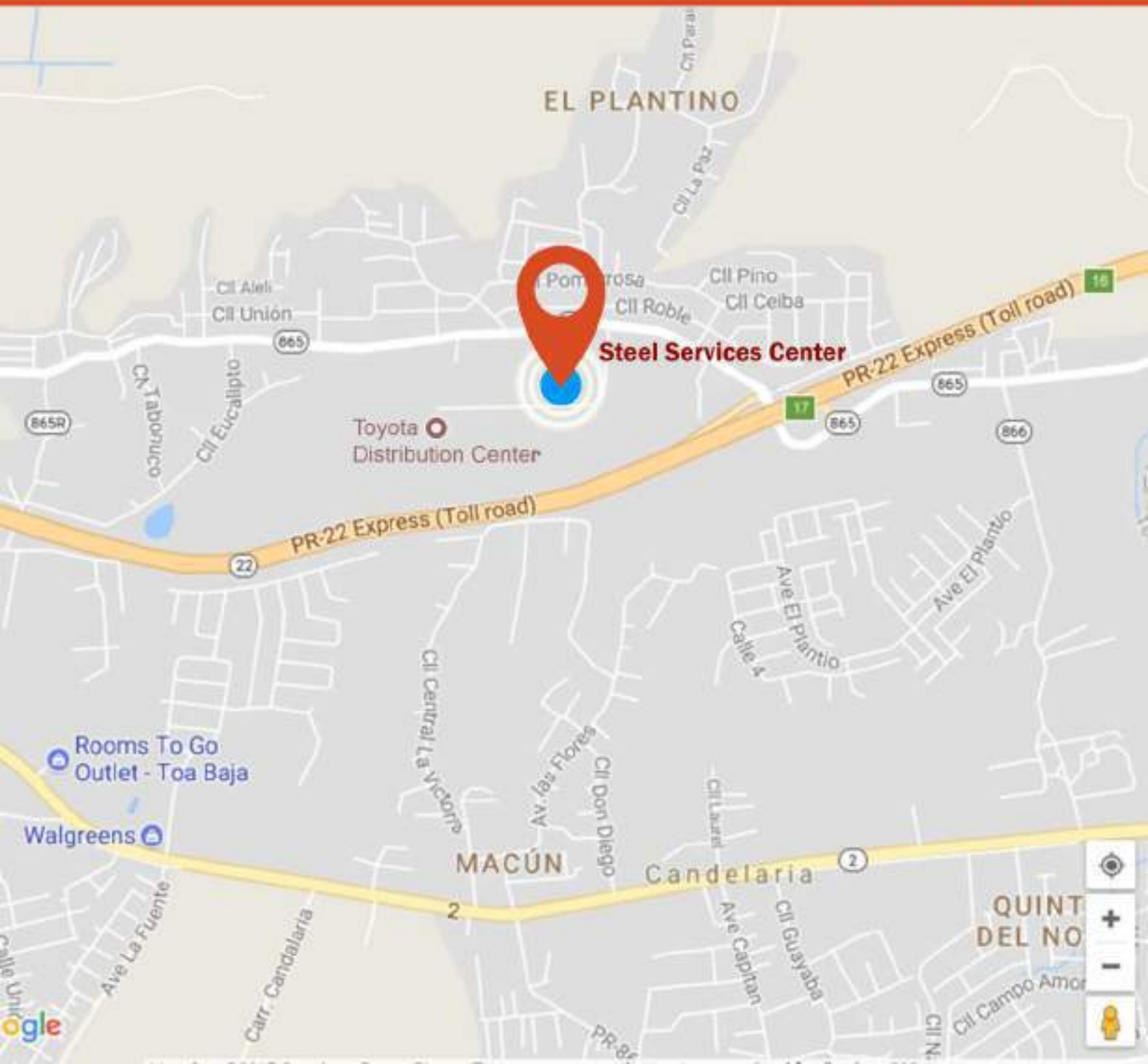
Fax: 787-794- 2390

Steel Services Center
Candelaria Ward
Jimeco Industrial Park
road 865 km 4.9
Toa Baja, PR. 00949



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