



West Virginia Steel
Corporation

Warehouse Catalog

CONTACT INFORMATION

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(River Plant)

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Find us online at www.wvsteelcorp.com

Introduction

West Virginia Steel Corporation was established in 1911, incorporated in 1934. The company has been in perpetual business since that time serving industrial, mine, commercial and individual customers with honest, dependable service and quality.

West Virginia Steel Corporation is unique; We are a fabricator and full line steel distributor, which allows us to fabricate all projects and jobs from our stock, we own our own trucks, and we hold a strong position with our major steel producers. This combination ensures faster start up time and delivery for our customer's projects. Our control is completely in house, insuring reliable delivery dates.

West Virginia Steel Corporation is equipped with facilities, equipment and personnel to furnish material and fabrication to meet every need of today's complex market. West Virginia Steel Corporation's River Plant is a modern fabricating/warehouse facility with over 120,000 sq. ft. of floor space. The shop is located north of Nitro, West Virginia, on the Kanawha River. We can ship and receive by rail, river and truck from this location. Our Charleston, West Virginia location has 93,000 sq. ft. of floor space for plate and structural fabrication. Access to this location is by truck.

West Virginia Steel Corporation is well-known in the mining, commercial, and industrial industry as a supplier and fabricator. We fabricate all components for material handling systems, cleaning systems, preparation facilities, prisons, schools, and hospitals. West Virginia Steel Corporation has furnished complete mine preparation systems, plants, schools, prisons and hospitals throughout the Appalachian region and the Continental USA.

We are versatile, progressive and flexible and can serve your fabricating requirements from the small and intricate to high rise commercial building, heavy fabrication. Our Engineering/Sales staff is eager to serve you with design assistance, cost estimates, and material selection.

Consider West Virginia Steel Corporation as your fabricator and supplier of mill steel products, and don't forget us for specialty items.

ALL THREAD	
Size	TPI
1/4	20
3/8	16
1/2	13
5/8	11
3/4	10
7/8	9
1	8
1 1/4	7

A325 HEX HEAD BOLT W/ NUT
3/4 X 2
3/4 X 2 1/4

ROOF DECK		
Thickness	Coating	Size
BW36-22	Painted	36" X 16'-2"
BW36-22	Painted	36" X 20'-2"
BW36-20	Galvanized	36" X 20'-2"
BW36-22	Painted	36" X 24'-2"
BW36-20	Galvanized	36" X 24'-2"

SLIP-ON FLANGES	
Size (inches)	Part#
1	JB#914
1 1/4	JB#910
1 1/2	JB#911

CAPS		
Type	Size	Part #
Pipe	1 1/4	JB#937
Pipe	1 1/2	JB#938
Square	3 x 3	JB#5630
Square	4 x 4	JB#5640
Rectangular	6 x 4	JB#5664

STUDS (ANCHOR)	
Size (Diameter)	Length (Inches)
3/8	1
3/8	4 1/8
3/8	6 1/8
1/2	2 1/8
1/2	3 1/8
1/2	4 1/8
1/2	5 5/16
1/2	6 1/8
5/8	3 3/16
5/8	4 3/16
5/8	5 3/16
5/8	6 9/16
5/8	8 3/16
3/4	3 7/8
3/4	4 3/16
3/4	6 3/16

STUDS (THREADED)	
Size (Diameter)	Length (Inches)
1/4	1
3/8	1
3/8	1 1/2
3/8	1 3/4
3/8	2
3/8	3
1/2	1
1/2	1 1/4
1/2	1 1/2
1/2	2
1/2	3 1/8
5/8	2
3/4	1 1/2
3/4	2

WELD ELLS	
Size	Part #
1 1/4 (90 degree)	AK#205
1 1/4 (90 degree)	JB#618
1 1/4 (short radius)	JB#918
1 1/4 (long radius)	JB#948
1 1/2 (90 degree)	JB#619
1 1/2 (90 degree)	AK#206
1 1/2 (long radius)	JB#949

WELD BUTT HINGES	
Part #	Size
1850-3	3 X 3
1850-4	4 X 4
1850-5	5 X 5

TENSILFORM 50	
Size	
31 1/4" x 8'-4"	
31 1/4" x 10'-4"	
31 1/4" x 12'-4"	
31 1/4" x 20'-2"	
Purlin Clips	
Welding Washers	

REBAR		
Size (inches)	#	Weight Per Ft. (lb)
3/8	3	0.376
1/2	4	0.668
5/8	5	1.043
3/4	6	1.502
7/8	7	2.044
1	8	2.67
1 1/8	9	3.4

CORRUGATED ROOFING GALVANIZED	
Size	
27 1/2" x 96"	
27 1/2" x 120"	
27 1/2" x 144"	

WIRE (BLACK ANNEALED)	
16 GA - 3 1/2# Roll	
12 GA - 100# Roll	

GRATING GALVANIZED	
Thickness & Height	Width & Length
3/16 x 1	2' x 20'
3/16 x 1	3' x 20'
3/16 x 1 1/4	2' x 20'
3/16 x 1 1/4	3' x 20'

GRATING SERRATED GALVANIZED	
Thickness & Height	Width & Length
3/16 x 1	2' x 20'
3/16 x 1 1/4	2' x 20'
3/16 x 1 1/4	3' x 20'

GRATING PAINTED	
Thickness & Height	Width & Length
3/16 x 1	2' x 20'
3/16 x 1	3' x 20'
3/16 x 1 1/4	2' x 20'
3/16 x 1 1/4	3' x 20'
3/16 x 1 1/2	2' x 20'
3/16 x 1 1/2	3' x 20'

GRATING SERRATED PAINTED	
Thickness & Height	Width & Length
3/16 x 1	2' x 20'
3/16 x 1	3' x 20'
3/16 x 1 1/4	2' x 20'
3/16 x 1 1/4	3' x 20'
3/16 x 1 1/2	3' x 20'

FLAT EXPANDED METAL			
Nominal Opening Size (Inches)	Thickness	48 x 96	48 x 120
1/2	#18	X	
	#16	X	X
	#13	X	X
3/4	#16	X	
	#13	X	
	#9	X	X
1 1/2	#10		X
	#9	X	X

EXPANDED METAL	
Weight Per Sq. Ft. (lbs.)	Size
3#	48 x 96
3.14#	48 x 120
4#	48 x 96
	72 x 96
4.27#	48 x 96
4# Galvanized Walkway Grating 30" x 120"	

SQUARE & RECTANGULAR TUBING

Dimension	Thickness	Weight Per Ft. (lb)
1 x 1	16ga	1
	11ga	1.44
1 1/4 x 1 1/4	11ga	1.84
1 1/2 x 1 1/2	11ga	2.25
	3/16	3.35
	1/4	4.083
2 x 2	11ga	3.05
	3/16	4.31
	1/4	5.41
2 1/2 x 2 1/2	3/16	5.6
	1/4	7.11
3 x 3	11ga	4.75
	3/16	6.88
	1/4	8.81
	5/16	10.58
	3/8	12.75
3 x 1 1/2	11ga	3.476
3 x 2	11ga	3.9
	3/16	5.59
	1/4	7.11
3 1/2 x 3 1/2	3/16	8.16
	1/4	10.51
	5/16	12.7
4 x 4	11ga	6.46
	3/16	9.44
	1/4	12.21
	5/16	14.84
	3/8	17.27
	1/2	21.63
4 x 2	3/16	6.87
	1/4	8.81
4 x 3	3/16	8.15
	1/4	10.51
	5/16	12.7
5 x 5	3/16	11.97
	1/4	15.62
	5/16	19.08
	3/8	22.37
	1/2	28.43
5 x 3	1/4	12.21
5 x 4	1/4	13.9
6 x 6	3/16	14.55
	1/4	19.02
	5/16	23.35
	3/8	27.48
	1/2	35.24
	5/8	42.26
6 x 2	1/4	12.21
6 x 3	3/16	10.7
	1/4	13.91
6 x 4	1/4	15.62
	5/16	19.08
	3/8	22.37
	1/2	28.43
8 x 8	1/4	25.82
10 x 2	1/4	19.025

PIPE

Size (Inches)	Schedule 40/80	OD	ID	Wall Thickness
3/8	40	0.675	0.493	0.091
	80	0.675	0.423	0.126
1/2	40	0.84	0.622	0.109
	80	0.84	0.546	0.147
3/4	40	1.05	0.824	0.113
	80	1.05	0.742	0.154
1	40	1.32	1.05	0.133
	80	1.32	0.957	0.179
1 1/4	40	1.66	1.38	0.14
	80	1.66	1.28	0.191
1 1/2	40	1.9	1.61	0.145
	80	1.9	1.5	0.2
2	40	2.38	2.07	0.154
	80	2.38	1.94	0.218
2 1/2	40	2.88	2.47	0.203
	80	2.88	2.32	0.276
3	40	3.5	3.07	0.216
	80	3.5	2.9	0.3
3 1/2	40	4	3.55	0.226
	80	4	3.36	0.318
4	40	4.5	4.03	0.237
	80	4.5	3.83	0.337
5	40	5.56	5.05	0.258
	80	5.56	4.81	0.375
6	40	6.63	6.07	0.28
	80	6.63	5.76	0.432
8	40	8.63	7.63	0.5
	80	8.63	7.98	0.322
10	40	10.8	10	0.365
	80	10.8	9.75	0.5

STD (S) SHAPES

Section Size	Weight Per Ft. (lb.)	Depth of Section	Flange Width	Flange Thickness	Web Thickness
S3	5.7	3	2-3/8	1/4	3/16
	7.5	3	2-1/2	1/4	3/8
S4	7.7	4	2-5/8	5/16	3/16
	9.5	4	2-3/4	5/16	5/16
S5	10	5	3	5/16	3/16
S6	12.5	6	3-3/8	3/8	1/4
	17.25	6	3-5/8	3/8	7/16
S8	18.4	8	4	7/16	1/4
	23.0	8	4-1/8	7/16	7/16
S10	25.4	10	4-5/8	1/2	5/16
	35.0	10	5	1/2	5/8
S12	31.8	12	5	9/16	3/8
	35.0	12	5-1/8	9/16	7/16
S15	42.9	15	5-1/2	5/8	7/16
	50.0	15	5-5/8	5/8	9/16
S20	75.0	20	6-3/8	13/16	5/8
S24	106.0	24 1/2	7-7/8	1-1/16	5/8

WIDE FLANGE BEAMS

Section Size	Weight Per Ft. (lb)	Depth (Height) (inches)	Flange Width	Flange Thickness	Web Thickness
W4	13	4.16	4.06	0.345	0.28
W5	16	5.01	5	0.36	0.24
	19	5.15	5.03	0.43	0.27
W6	9	5.9	3.94	0.215	0.17
	12	6.03	4	0.28	0.23
	15	5.99	5.99	0.26	0.23
	16	6.28	4.03	0.405	0.26
	20	6.2	6.02	0.365	0.26
	25	6.38	6.08	0.455	0.32
W8	10	7.89	3.94	0.205	0.17
	13	7.99	4	0.255	0.23
	15	8.11	4.015	0.315	0.245
	18	8.14	5.25	0.33	0.23
	21	8.28	5.27	0.4	0.25
	24	7.93	6.495	0.4	0.245
	28	8.06	6.535	0.465	0.285
	31	8	7.95	0.435	0.285
	35	8.12	8.02	0.495	0.31
	40	8.25	8.07	0.56	0.36
	48	8.5	8.11	0.685	0.4
	58	8.75	8.22	0.81	0.51
	67	9	8.28	0.935	0.57
W10	12	9.87	3.96	0.21	0.19
	15	9.99	4	0.27	0.23
	17	10.11	4.01	0.33	0.24
	19	10.24	4.02	0.395	0.25
	22	10.17	5.75	0.36	0.24
	26	10.33	5.77	0.44	0.26
	30	10.47	5.81	0.51	0.3
	33	9.73	7.96	0.435	0.29
	39	9.92	7.985	0.53	0.315
	45	10.1	8.02	0.62	0.35
	49	9.98	10	0.56	0.34
	54	10.09	10.03	0.615	0.37
	60	10.22	10.08	0.68	0.42
	68	10.4	10.13	0.77	0.47
	77	10.6	10.19	0.87	0.53
	88	10.84	10.27	0.99	0.605
	100	11.1	10.34	1.12	0.68
	112	11.36	10.42	1.25	0.755
W12	14	11.91	3.97	0.225	0.2
	16	11.99	3.99	0.265	0.22
	19	12.16	4.005	0.35	0.235
	22	12.31	4.03	0.425	0.26
	26	12.22	6.49	0.38	0.23
	30	12.34	6.52	0.44	0.26
	35	12.5	6.56	0.52	0.3
	40	11.94	8.005	0.515	0.295
	45	12.06	8.045	0.575	0.335
	50	12.19	8.08	0.64	0.37
	53	12.06	9.995	0.575	0.345
	58	12.19	10.01	0.64	0.36
	65	12.12	12	0.605	0.39
	72	12.25	12.04	0.67	0.43
	79	12.38	12.08	0.735	0.47
	87	12.53	12.13	0.81	0.515
	96	12.71	12.16	0.9	0.55
	106	12.89	12.22	0.99	0.61
	120	13.12	12.32	1.105	0.71
	190	14.38	12.67	1.735	1.06
W14	22	13.74	5	0.335	0.23
	26	13.91	5.025	0.42	0.255
	30	13.84	6.73	0.385	0.27
	34	13.98	6.745	0.455	0.285
	38	14.1	6.77	0.515	0.31
	43	13.66	7.995	0.53	0.305
	48	13.79	8.03	0.595	0.34
	53	13.92	8.06	0.66	0.37
	61	13.89	9.995	0.645	0.375
	68	14.04	10.04	0.72	0.415
	74	14.17	10.07	0.785	0.45

(WIDE FLANGE BEAMS Cont.)

Section Size	Weight Per Ft. (lb)	Depth (Height) (inches)	Flange Width	Flange Thickness	Web Thickness
W14	82	14.31	10.13	0.855	0.51
	90	14.02	14.52	0.71	0.44
	99	14.16	14.57	0.78	0.485
	109	14.32	14.61	0.86	0.525
	120	14.48	14.67	0.94	0.59
	176	15.22	15.65	1.31	0.83
	193	15.48	15.71	1.44	0.89
	311	17.12	16.23	2.26	1.41
W16	26	15.69	5.5	0.345	0.25
	31	15.88	5.525	0.44	0.275
	36	15.86	6.985	0.43	0.295
	40	16.01	6.995	0.505	0.305
	45	16.13	7.035	0.565	0.345
	50	16.26	7.07	0.63	0.38
	57	16.43	7.12	0.715	0.43
	67	16.33	10.24	0.685	0.395
	77	16.52	10.3	0.76	0.455
	89	16.75	10.365	0.875	0.525
	100	16.97	10.425	0.985	0.585
W18	35	17.7	6	0.425	0.3
	40	17.9	6.015	0.525	0.315
	46	18.06	6.06	0.605	0.36
	50	17.99	7.495	0.57	0.355
	55	18.11	7.53	0.63	0.39
	60	18.24	7.555	0.695	0.415
	65	18.35	7.59	0.75	0.45
	71	18.47	7.635	0.81	0.495
	76	18.21	11.035	0.68	0.425
	86	18.39	11.09	0.77	0.48
	97	18.59	11.145	0.87	0.535
	119	18.97	11.265	1.06	0.655
	130	19.25	11.16	1.2	0.67
W21	44	20.66	6.5	0.45	0.35
	50	20.83	6.53	0.535	0.38
	57	21.06	6.555	0.65	0.405
	62	20.99	8.24	0.615	0.4
	68	21.13	8.27	0.685	0.43
	73	21.24	8.295	0.74	0.455
	83	21.43	8.355	0.835	0.515
	93	21.62	8.42	0.93	0.58
	101	21.36	12.29	0.8	0.5
	111	21.51	12.34	0.875	0.55
	132	21.83	12.44	1.035	0.65
	147	22.06	12.51	1.15	0.72
W24	55	23.57	7.005	0.505	0.395
	62	23.74	7.04	0.59	0.43
	68	23.73	8.965	0.585	0.415
	76	23.92	8.99	0.68	0.44
	84	24.1	9.02	0.77	0.47
	94	24.31	9.065	0.875	0.515
	103	24.53	9	0.98	0.55
	114	24.06	12.75	0.75	0.5
	117	24.26	12.8	0.85	0.55
	176	25.24	12.89	1.34	0.75
W27	84	26.71	9.96	0.64	0.46
	94	26.92	9.99	0.745	0.49
	102	27.09	10.015	0.83	0.515
	146	27.38	13.965	0.975	0.605
	281	29.29	14.35	1.93	1.06
W30	99	29.65	10.45	0.67	0.52
	108	29.83	10.475	0.76	0.545
	116	30.01	10.495	0.85	0.565
	124	30.17	10.515	0.93	0.585
	132	30.31	10.545	1	0.615
W33	118	32.86	11.48	0.74	0.55
	130	33.09	11.51	0.855	0.58
W36	150	35.85	11.975	0.94	0.625
	170	36.17	12.03	1.1	0.68
	194	36.49	12.115	1.26	0.765
W40	199	38.67	15.75	1.065	0.65

ANGLE A36		
Size	Thick-ness	Wt. Per Ft. (lbs.)
3/4 X 3/4	1/8	0.60
1 X 1	1/8	0.87
	3/16	1.18
	1/4	1.52
1 1/4 X 1 1/4	1/8	1.03
	3/16	1.51
	1/4	1.96
1 1/2 X 1 1/2	1/8	1.25
	3/16	1.84
	1/4	2.39
1 3/4 X 1 3/4	1/8	1.47
	3/16	2.16
	1/4	2.77
2 X 1 1/2	3/16	2.16
	1/4	2.83
2 X 2	1/8	1.65
	3/16	2.44
	1/4	3.19
	5/16	3.92
	3/8	4.70
2 1/2 X 1 1/2	1/4	3.26
2 1/2 X 2	1/4	3.62
	3/8	5.30
2 1/2 X 2 1/2	3/16	3.07
	1/4	4.10
	5/16	5.00
	3/8	5.90
3 X 2	1/4	4.10
3 X 2 1/2	1/4	4.50
3 X 3	3/16	3.71
	1/4	4.90
	5/16	6.10
	3/8	7.20
3 1/2 X 2 1/2	1/2	9.40
	1/4	5.00
	5/16	6.19
	3/8	7.34
3 1/2 X 3	1/2	9.57
	1/4	5.44
	5/16	6.73
	3/8	7.99
3 1/2 X 3 1/2	1/2	11.10
	1/4	5.80
	5/16	7.20
	3/8	8.50
4 X 3	1/2	11.10
	1/4	5.80
	5/16	7.20
	3/8	8.50

(Angle A36 Cont.)		
Size	Thick-ness	Wt. Per Ft. (lbs.)
4 X 3 1/2	1/4	6.20
	5/16	7.70
	3/8	9.10
	1/2	11.90
4 X 4	1/4	6.60
	5/16	8.20
	3/8	9.80
	1/2	12.80
	5/8	15.70
5 X 3	3/4	18.50
	1/4	6.60
	5/16	8.20
	3/8	9.80
5 X 3 1/2	1/2	12.80
	1/4	7.00
	5/16	8.70
	3/8	10.40
	1/2	13.60
5 X 5	3/4	19.80
	5/16	10.30
	3/8	12.30
	1/2	16.20
6 X 3 1/2	3/4	23.60
	5/16	9.80
	3/8	11.70
6 X 4	1/2	15.30
	5/16	10.30
	3/8	12.30
	1/2	16.20
	5/8	50.00
6 X 6	3/4	23.60
	5/16	12.40
	3/8	14.90
	1/2	19.60
7 X 4	5/8	24.20
	3/4	28.70
	1	37.40
	3/8	13.60
	1/2	17.90
8 X 4	5/8	22.10
	3/4	26.20
	1/2	19.60
8 X 6	3/4	28.70
	1/2	23.00
8 X 8	3/4	33.80
	1/2	26.40
	3/4	38.90

CHANNEL	
Size (Height)	Wt. Per Ft. (lbs.)
3	4.1
	5
	6
4	5.4
	7.25
5	6.7
	9
6	8.2
	10.5
	13
7	9.8
	12.25
8	11.5
	13.75
	18.75
9	13.4

MC CHANNEL	
Size (Height)	Wt. Per Ft. (lbs.)
3	7.1
6	12
8	20
	21.4
9	25.4
10	8.4
12	10.6
	50
18	58

CHANNEL BAR	
Size (Height X Flange Width)	Web Thickness
1 x 1/2	1/8
1 1/4 x 1/2	1/8
1 1/2 x 1/2	1/8
2 x 1	1/8
	3/16

SHEET/PLATE HOT ROLLED ASTM A36

Thickness	Size (Length X Width)												
	48 X 96	48 X 120	48 X 144	48 X 240	60 X 120	60 X 144	60 X 216	60 X 240	60 X 288	72 X 144	72 X 288	96 X 240	96 X 288
24ga (Galv.)	X												
22ga (Galv.)	X												
20ga (Galv.)	X												
18ga (Galv.)	X												
16ga (Galv.)	X												
16ga		X											
14ga		X			X								
12ga			X		X								
11ga	X	X	X		X								
10ga***			X		X								
7ga***	X	X	X		X								
3/16													
1/4	X	X		X	X	X							
5/16		X					X						
3/8***	X	X			X								
1/2***	X	X			X								
5/8													
3/4													
1													
1 1/8													
1 1/4													
1 3/8													
1 1/2													
1 3/4													
2													
2 1/4													
2 1/2													
2 3/4													
3													
3 1/4													
3 1/2													
4													
4 1/2													
5													
5 1/2													
6													

*** DENOTES THAT SHEET/PLATE STOCKED IN ADDITIONAL SIZES

A516-70 PLATE (PRESSURE VESSEL QUALITY)			
Thick-ness	96x144	96x240	96x288
3/16		X	
1/4		X	X
5/16		X	X
3/8		X	X
5/8		X	X
3/4		X	X
7/8		X	
1		X	X
1 1/4		X	
1 3/8		X	
2 3/4		X	
3		X	
3 1/2	X		
4	X		

FLOOR PLATE	
Thickness	Size (Length x Width)
1/8	48 X 288
	60 X 288
	72 X 288
3/16	48 X 288
	60 X 288
	72 X 288
1/4	48 X 288
	60 X 288
	72 X 288
3/8	48 X 288
	72 X 288
1/2	48 X 288

WEAR PLATES					
Thick-ness	ASTM	96x144	96x168	96x240	96x288
1/4	AR400			X	X
	AR235			X	
	T1-321			X	X
3/8	AR400				X
	AR235			X	
	T1-321			X	X
1/2	AR400				X
	AR235			X	
	T1-321			X	X
5/8	AR400				X
	T1-321			X	X
3/4	AR400				X
	T1-321			X	X
7/8	AR400				X
	T1-321				X
1	AR400				X
	T1-321			X	X
1 1/4	AR400			X	X
	T1-321			X	X
1 1/2	AR400				X
	T1-321			X	X
1 3/4	AR400				X
	T1-321				X
2	AR400				X
	T1-321				X
2 1/2	AR400		X		
	T1-321				X
3	AR400	X			
	T1-321				X

HIGH STRENGTH STEEL PLATE (Stock sizes vary from 96 x 120 - 96 x 288)		
Thick-ness	T1-A514	A572-50
1/4	X	X
5/16		X
3/8	X	X
1/2	X	X
5/8	X	X
3/4	X	X
7/8	X	X
1	X	X
1 1/8		X
1 1/4	X	X
1 1/2	X	X
1 3/4	X	X
2	X	X
2 1/4		X
2 1/2	X	X
3	X	
4 1/2		X

A588 CORTEN PLATE			
Thick-ness	84 x 288	96 x 240	96 x 288
1/4	X	X	X
5/16	X		X
3/8		X	
1/2		X	

COLD ROLL ROUND

Diameter	C1045	C1018	C1144
1/4		X	
5/16		X	
3/8		X	
1/2	X		
9/16	X		
5/8	X		
3/4	X		
13/16		X	
7/8	X		
15/16	X		
1	X		X
1 1/8	X		X
1 3/16	X		X
1 1/4	X		X
1 5/16	X		
1 3/8	X		X
1 7/16	X		
1 1/2	X		X
1 5/8	X		
1 3/4	X		X
1 7/8	X		
1 15/16	X		X
2	X		X
2 1/16		X	
2 1/8	X		
2 3/16	X		
2 1/4	X		X
2 3/8	X		
2 7/16	X		X
2 1/2	X		X
2 3/4	X		X
2 15/16	X		X
3	X		
3 1/4	X		X
3 3/8	X		
3 7/16	X		X
3 1/2	X		X
3 3/4	X		
3 15/16	X		X
4	X		X
4 1/4	X		
4 7/16	X		
4 1/2	X		
4 3/4	X		
4 15/16	X		
5	X		
5 1/2	X		
6	X		

HOT ROLL ROUND (A36)

Diameter
1/4
3/8
1/2
5/8
3/4
7/8
1
1 1/8
1 1/4
1 3/8
1 1/2
1 5/8
1 3/4
2
2 1/4
2 1/2

COLD FINISH SQUARE (1018)

Thickness
3/16
1/4
5/16
3/8
7/16
1/2
5/8
3/4
7/8
1
1 1/8
1 1/4
1 1/2
1 5/8
1 3/4
2

A36 HOT ROLL SQUARE BAR

Thickness
1/4
3/8
1/2
5/8
3/4
7/8
1

A36 STRIP & FLAT BAR

Thickness	Width
1/8	1/2
	3/4
	1
	1 1/4
	1 1/2
	2
	2 1/2
	3
	4
	5
	6
3/16	1
	1 1/2
	2
	2 1/2
	3
	4
	4 3/4
	6
1/4	1/2
	3/4
	1
	1 1/4
	1 1/2
	2
	2 1/2
	3
	3 1/2
	4
	5
	6
	8
	10
	12

(A36 STRIP & FLAT BAR CONT)

Thickness	Width
3/8	1
	1 1/4
	1 1/2
	1 3/4
	2
	2 1/4
	2 1/2
	3
	3 1/2
	4
	5
	6
	8
	10
	12
1/2	3/4
	1
	1 1/2
	1 3/4
	2
	2 1/2
	3
	3 1/2
	3 3/4
	4
	5
	6
	8
	10
	12
5/8	2
	2 1/2
	3
	4
	5
	6
	8
	10
	12

(A36 STRIP & FLAT BAR CONT)

Thickness	Width
3/4	1 1/2
	2
	2 1/2
	3
	4
	5
	6
	7
	8
	10
	12
1	1 1/2
	2
	3
	4
	5
	6
	8
	10
	12
1 1/4	3
	4
	6
1 1/2	3
	4
	6
1 3/4	3
	4
	6
2	4
	5
	6
3	4
	6

AR400 HARDBAR

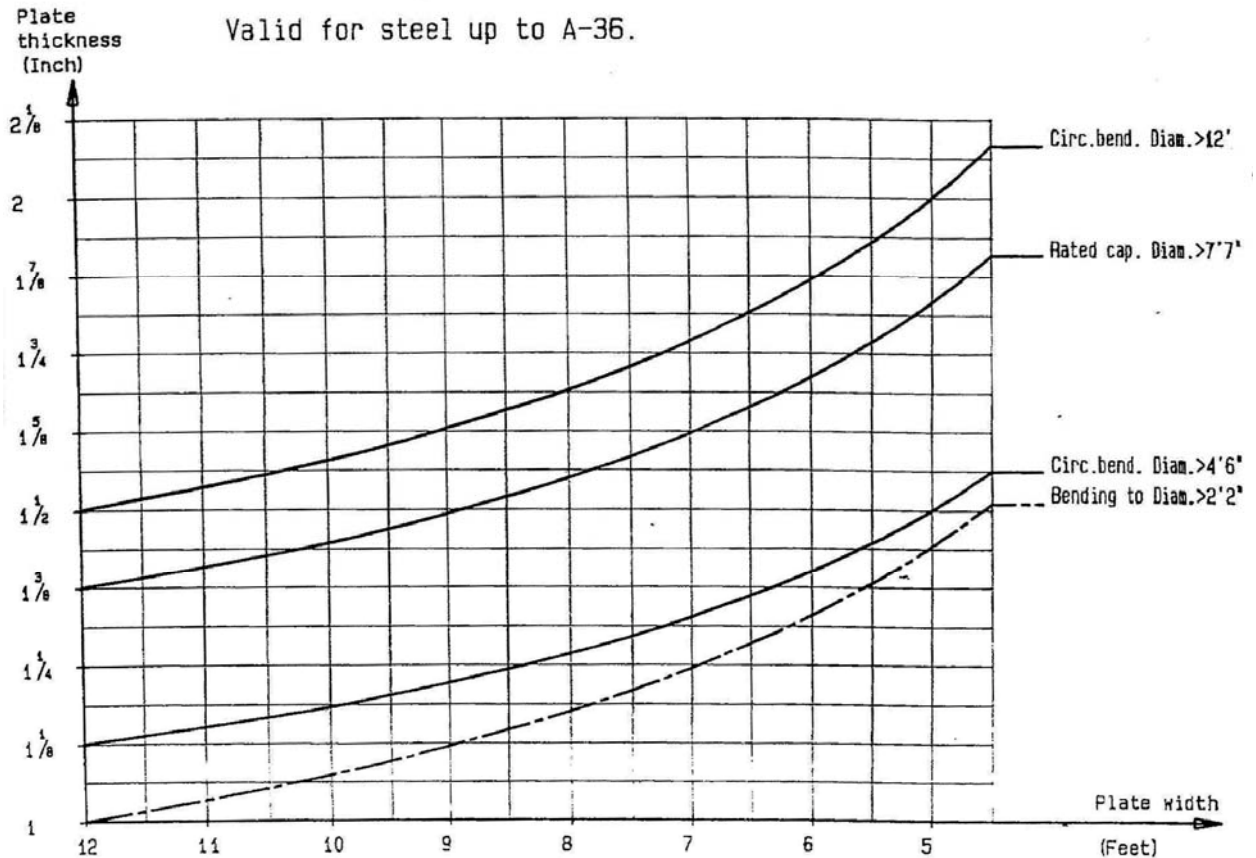
SIZE
3/4 X 4
3/4 X 6
1 X 4
1 X 6



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<http://rmis-wvsteel.com>

If it's rolling, so are we. From buckets to blades to chutes to tanks, our Roundo PS 460/12 allows us to roll a wide variety of lengths and diameters. Need it tight? We are able to roll a minimum inside diameter of 2'-2". Need major capacity? We are able to roll a max of 7'-6" inside diameter with stock plate in single sections and larger diameters in sections or with special order plate.

The chart below gives the plate thickness to length ratio for diameter of roll. Example: a 1½" plate 12'-0" long can be rolled to diameters greater than 12'-0" whereas a 1½" plate 4'-6" long can be rolled as tight as 2'-2" in diameter.



We are always ready to put our machines to the maximum test. Put us to the test and let us turn over a deal for all your rolling needs.



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We are proud to announce the newest machine addition to our facilities. The *ROUND O Section Bending Machine* will allow us to roll a greater variety and size of materials to a greater variety of diameters. Below is a chart describing the material types and rolling capabilities.

Section Bending Machine		Capacity table		R-7-S/R-72-S	
Section		With standard rolls		With special rolls	
		Max. 6" x 6" x 1" Min. 2" x 2" x 3/16"	To Ø 100" ① To Ø 30"	Min. 1½" x 1½" x 3/16"	To Ø 16"
		Max. 6" x 6" x 1" Min. 2" x 2" x 3/16"	To Ø 130" ① To Ø 38"	Min. 1½" x 1½" x 3/16"	To Ø 20"
		Max. WT6 Min. no limit	To Ø 90" ① To Ø 30"	Small sections	To Ø 16"
		Max. WT6 Min. no limit	To Ø 110" ① To Ø 30"	Small sections	To Ø 16"
		Max. WT6 Min. no limit	To Ø 85" ① To Ø 30"	Small sections	To Ø 16"
		Max. 8" x 1¼" Max. 6" x 2½" Min. 2" x 2" x ¼"	To Ø 100" ① To Ø 70" To Ø 30"	Small sections	To Ø 16"
		Max. 12" x 2½" Min. no limit	To Ø 45" ① To Ø 30"	Small sections	To Ø 16"
		Max. 4½" x 4½" Min. no limit	To Ø 60" ① To Ø 30"	Small sections	To Ø 16"
		Small sections		Max. Ø 5" Min. no limit	To Ø 50" To Ø 16"
		Special rolls only		Max. O.D. 8" * Min. no limit	To Ø 100" To Ø 16"
		Small sections		Max. 6" x 6" x 3/8"	③
		Small sections		Max. W14 x 38 Min. W4	To Ø 60" ④ To Ø 30"
		Small sections		Max. W12 x 53 Max. W10 x 49 Min. W4	To Ø 60" To Ø 60" To Ø 30"
		Small sections		Max. C15 x 50 Min. C4	To Ø 60" ④ To Ø 30"
		Small sections		Max. C15 x 50 Min. C4	To Ø 70" ④ To Ø 30"
		Special rolls only		Max. C8 x 18,75 Min. C4	To Ø 410" ⑤ To Ø 70"
		Special rolls only		Max. W8 x 21 Min. W4	To Ø 200" ⑤ To Ø 80"
		Special rolls only		Max. W6 x 25 Min. W4	To Ø 150" ⑤ To Ø 80"

Quality of material : A.36
 All data are valid for mild steel with yield point 270 N/mm²
 Max. section modulus : 11-20 inch³ depending on bending diameter.
 Diameter of standard rolls : 21,7"
 Diameter of top shaft/lower shafts : 9,5"/ 8,7"
 Motor output : 30 kW

① Indicated diameters are valid for max. section in one or few passes. Smaller sections can be bent to smaller diameters.
 ③ Smallest bending diameter depends on grade or deformation that can be accepted.
 ④ Machine with extended shafts allows wider or higher sections than specified.
 ⑤ Only with special equipment.

* At this time we do not have the special dies to be able to roll greater than 2" pipe.

Remember to keep WEST VIRGINIA STEEL CORPORATION in mind for your next rolling project. Give us a call and let us "roll" you a deal.



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Computerized technologies are combining with the essentials of all aspects of the steel industry to create a faster, more productive material flow. This is even true with drilling machines. The Peddinghaus PCD 1100 Drill Line brings to the industry efficient quality from beginning to end. With the combined ability to download drill programs from our detailing software and “etch” text onto the beam while drilling, time is saved and errors are lessened.

Below is a chart showing the maximum and minimums of material sizes which the machine is capable of drilling

Peddinghaus PCD 1100 Machine Specifications

Material Specifications		
Material Sizes U.S. Rolled Shapes	W-Beams	W44 x 290 x 60ft W24 x 279 x 60ft W4 x 13 x 60ft
	C-Shapes	C15 x 50 x 60ft C3 x 6 x 60ft
	MC-Shapes	MC18 x 58 x 60ft MC6 x 12 x 60ft
	L-Shapes	L8 x 8 x 1-1/8 x 60ft L5 x 3 x 1/2 x 60ft L3 x 2 x 3/16 x 60ft
	HSS Tube	HSS20 x 12 x 5/8 x 60ft HSS10 x 10 x 5/8 x 60ft HSS3 x 1 x 1/8 x 60ft
	Plate / Flat Bars	44 x 6 x 20ft 4 x 6 x 60ft 3 x 3/4 x 60ft
Thickness	Minimum	1/8" (3 mm) Based on Shape
	Maximum	18" (460 mm) with Through the Spindle Coolant
Width	Minimum	3" (76 mm)
	Maximum	43.31" (1100 mm)
Length	Minimum	62" (1575 mm)
Length/Weight	Maximum	300 pounds/ft to a maximum weight of 18,000 pounds (8165 kg)

Speedy, consistent, error free products are our goal. With machines like the PCD 1100 Drill Line, we inch closer to that goal everyday.



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The steel industry is an ever-changing giant in the age of energy and technology. Our ESAB 2000 Gas CNC Cutting Machine and Master Graph Series Gas/Plasma CNC Cutting Machine allow us to flame burn shapes from flat plate steel using programs created by Computer Aided Design (CAD) software. These parts vary in usage from artwork, to machine replacement parts, to material processing chutes, to ductwork for industrial plants. With computerized burning, multiple parts burn out consistently every time. For our plasma machine, we use a “table” filled with water to get a much cleaner, more precise burn.

Chart 1.1 shows the standards of material sizes for the *plasma machine*, and *Chart 1.2* shows the standards of material sizes for the *oxy machine*.

Chart 1.1

Materials	Minimum Thickness	Maximum Thickness	
A36, T1, etc.	N/A	5/8"	1/2" to 1" material $\pm \frac{1}{16}$ chamfer for each 1/2" of material
Stainless Steel	N/A	1"	

Chart 1.2

Materials	Minimum Thickness	Maximum Thickness	
A36, T1, etc.	1/4"	9"	Using pre-drilled "pilot" holes, 11" maximum thickness is possible.

Our team is always fine-tuning their techniques to produce the best quality available and is always ready to process any template or drawing to produce a high quality part at a cost you can afford. Bring in your project today and let our team “cut” you a deal.





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With 1,000 tons of hydraulic pressure behind it, our press brake can bend a 20 foot long plate up to one inch thick at an angle of 90 degrees; the shorter the length, the thicker the material we can bend. Dependant upon the thickness, length, type and grade of materials, we are able to bend a great variety of shapes and angles. The charts below give a general idea of our bending capabilities.

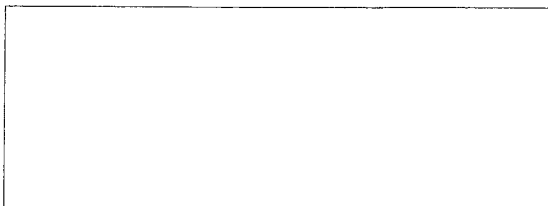


PRESS BRAKE FORMING TONNAGE

SHAPE	TYPE OF BEND	TONNAGE (TONS/FT.)
	90° RIB FORM	Radii 2T + 200 x M.T. SHARP TO IT -600 x M.T.
	90° BOT & AIR B.	150 x M.T. (60 x M.T.)
	RADIUS	180 x M.T.
	OFFSET	300 x M.T.
	M.T. OFFSET	600 x M.T.
	CHANNEL	300 x M.T.
	HAT CHANNEL	600 x M.T.
	OPEN HAT CHANNEL	450 x M.T.
	WIPE DIE 14 GA. MAX.	250 x M.T.
	SINGLE FORM	200 x M.T.
	DOUBLE FORM	300 x M.T.
	CLOSING	200 x M.T.

EXAMPLE:
 HAT CHANNEL IN 16 GA. MILD STEEL 600 X .06 = 36 TONS/FT.

NOTE:
 TONNAGES BASED ON FORMING MILD STEEL.
 FOR STAINLESS STEEL FIGURE 1-1/2 TONNAGE FOR MILD STEEL.
 FOR ALUMINUM FIGURE 1/2 TONNAGE.
 FOR MILD STEEL (BASED ON ALUMINUM HAVING 50,000 P.S.I.
 TENSILE STRENGTH) DOUBLE TONNAGE FOR H.T.S.



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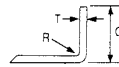
PRESS TECHNOLOGIES
 714 Walnut Street • Mt. Carmel, IL 62863

PRESS BRAKE BEND ALLOWANCE CHART (BA) FOR MILD STEEL

Part Radius (R)	METAL THICKNESS (T)											
	24 GA .024"	22 GA .030"	20 GA .036"	18 GA .048"	16 GA .060"	14 GA .075"	12 GA .105"	11 GA .120"	10 GA .134"	7 GA .179"	1/4"	250"
1/64"	.021	.026	.030	.039	.049	.059	.081	.092	.103	.143	.189	
1/32"	.025	.029	.033	.042	.053	.062	.084	.096	.107	.146	.192	
1/16"	.031	.036	.040	.049	.058	.069	.091	.102	.113	.153	.198	
3/32"	.038	.043	.047	.056	.065	.076	.098	.109	.120	.160	.205	
1/8"	.045	.049	.054	.062	.071	.082	.105	.116	.127	.166	.212	
3/16"	.056	.061	.065	.073	.081	.091	.111	.121	.131	.167	.225	
1/4"	.068	.072	.076	.083	.090	.099	.117	.127	.136	.168	.239	
5/16"	.082	.085	.089	.096	.104	.113	.131	.140	.149	.181	.253	
3/8"	.095	.099	.102	.110	.117	.126	.144	.153	.162	.195	.267	
1/2"	.122	.126	.129	.136	.144	.153	.171	.180	.189	.221	.295	

Bend allowances are approximate guides to establish dimensions for bending and to develop the flat blank size of the part.

GAUGING DIMENSIONS



To establish gauge setting dimension, subtract bend allowance (BA) from desired outside dimension on finished part (OD).

Gauge Dimension = OD - BA

DEVELOPED BLANK SIZE



To establish the flat blank size required, add all outside dimensions (OD), then subtract twice the bend allowance (BA) times the number of 90° bends.

Blank Size = OD1 + OD2 + OD3 + OD4 - 6BA

PRESS BRAKE BENDING TONNAGE CHART

Approximate Pressure in Tons per Linial Foot Required to Make 90° Air Bend on Mild Steel with Various Width Die Openings

Width of V-Die Opening	METAL THICKNESS																				
	26 G .01"	24 G .024"	22 G .030"	20 G .036"	18 G .048"	16 G .060"	14 G .075"	13 G .090"	12 G .105"	11 G .120"	10 G .135"	9 G .149"	7 G .187"	5/16" .250"	3/8" .375"	7/16" .437"	1/2" .500"				
1/8"	1.2	2.1	3.6																		
3/16"	0.8	1.4	2.5	4.1																	
1/4"	0.5	1.1	1.8	2.9	5.4																
5/16"		0.7	1.4	2.2	4.0	7.0															
3/8"			1.0	1.7	2.9	5.6	8.8														
1/2"				1.2	2.2	3.6	6.0	10.0													
5/8"					1.6	2.7	4.5	6.8	10.1												
3/4"						1.3	2.2	3.4	5.4	7.4	10.5										
7/8"							1.7	3.0	4.3	6.3	8.8	11.3									
1"								1.4	2.5	3.7	5.4	7.2	9.6	13.1							
1-1/8"									2.1	3.3	4.4	6.2	8.4	11.9	16.4						
1-1/4"										1.7	2.9	4.0	5.4	7.0	9.0	14.0	28.8				
1-1/2"											3.2	4.3	5.6	6.7	11.2	22.0	38.0				
2"												3.2	4.1	5.2	7.6	15.3	26.0	41.0			
2-1/2"													2.4	3.5	5.8	11.5	19.2	29.9	45.2		
3"														2.2	4.5	9.1	16.0	24.0	35.0	47.9	
3-1/2"															7.5	12.5	19.4	28.0	39.0		
4"																6.2	10.6	16.0	24.0	33.1	

Figures over bold line are the pressures required using a punch with a radius equal to the metal thickness and die opening approximately eight times metal thickness. This combination produces an air bend with an inside radius nearly equal to metal thickness - a good practical minimum for 90° bends.

Soft Aluminum50% of pressure listed
 Aluminum Alloy (Heat treated)Same as steel
 Stainless Steel50% more than steel

Give us a call and let our experienced Sales and Shop Associates help you to identify the size and bend of materials for your projects.



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With the Peddinghaus 823-B CNC-Controlled Anglemaster Line, consistency and speed equals quantity and quality on demand. With a maximum shearing capacity of an 8x8x³/₄ angle and a maximum punching capacity of an 8x8x1¹/₈ angle, there is little that we can't put out quickly and consistently as each part is processed using a computer program. Does it stop at angles? Why, no. The Peddinghaus 823-B also carries the capability of processing Flat Bar from 1/4x2 to 1¹/₄x12 (1x12 maximum shearing). Is there more? Of course, as this machine punches, not drills, it is able to place not only standard holes but also slots into the material.

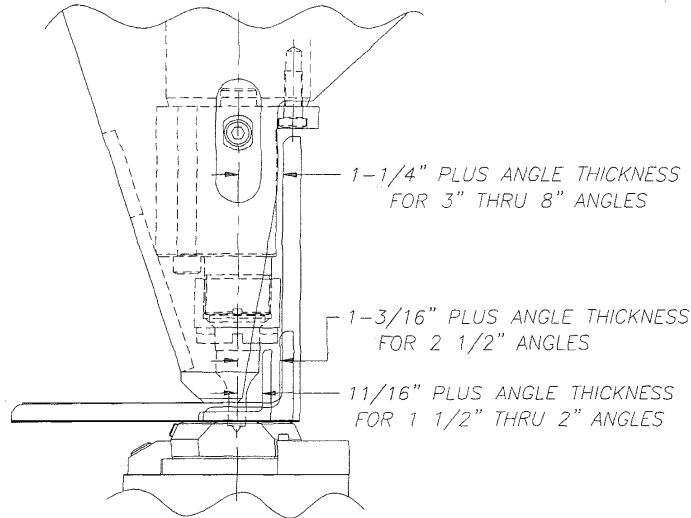
Below is a chart showing the gage minimums, or center of hole to inside of leg distance.

STRUCTURAL ANGLE DATA

USING STANDARD 270 SERIES (ENGLISH) TOOLING

STANDARD 270 TOOLING

MAXIMUM ANGLE [punching]:
 8" X 8" X 1 1/8"
 MAXIMUM ANGLE [shearing]:
 8" X 8" X .75"
 MINIMUM ANGLE:
 1 1/2" X 1 1/2" X 1/8"



NOTE: DIMENSIONS SHOWN ARE FOR TYPICAL MATERIAL STOCK. MATERIAL STOCK MANUFACTURED AT THE EXTREMES OF MILL STANDARDS MAY CAUSE VARIATIONS IN THESE SPECIFICATIONS.

With combining the Peddinghaus 823-B capabilities with our material rolling capabilities, there's not a lot of angle projects that we can't "punch" out.