morton metals

Steel Reference Guide

351 West Street South, Box 2090
Orillia, Ontario, Canada L3V 6R9
T 705.327.1300 1.800.461.0250
F 705.325.0567

ISO 9001:2000 QMI REGISTERED MANAGEMENT SYSTEM

On April 10, 1927 Louis Francoz arrived in Orillia. With borrowed money he started collecting scrap from area farmers, in turn selling it to a local foundry. This was the beginning of our Company originally known as Francoz Metal.

In 1976 a steel service centre was constructed on the property at 351 West Street South in Orillia, and thrived for many years in conjunction with the original scrap company.

In 1997 the steel service centre was sold to Garnet and Patricia Morton, who until 2006 operated as Francoz-Morton Steel Service Centre. Meanwhile their son, Greg had joined the Company and it was time to officially acknowledge the ownership as it is today.

Morton Metals continues to expand with increased product range, precision saw cutting and the reliable personal service you've become accustomed to.

This reference book has been compiled to provide our customer with a quick reference to the weights, size and range of product available to the industry.
While we have made every effort to ensure the information contained is accurate, Morton Metals makes no guarantee to that effect and assumes no liability whatsoever with respect to the use of, or reliance on, the contents.

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Hot Rolled Bars

Cold Rolled Bars

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HOT ROLLED STEEL BARS

FLATS

Size In Inches		Est Weight per Ft. Lbs.	Size in Inches		Est Weight per Ft. Lbs.
1/8 x	1/2	.213	3/16 x	1/2	.319
	5/8	.266		5/8	.398
				3/4	.478
	3/4	.319		7/8	.558
	7/8	.372		1	.638
				1-1/4	.797
	1	.425		1-1/2	.956
	1-1/4	.531		1-3/4	1.12
	1-1/2	.637		2	1.28
	1-3/4	.744		2-1/4	1.43
	2	.850		2-1/2	1.59
	2-1/4	.956		3	1.91
	2-1/2	1.062		3-1/4	2.07
	2-3/4	1.170		3-1/2	2.23
	3	1.275		4	2.55
	3-1/4	1.381		4-1/4	2.71
	3-1/2	1.490		4-1/2	2.87
	4	1.700		5	3.19
	4-1/2	1.912		6	3.83
	5	2.125		7	4.46
	6	2.550		8	5.10
	8	3.400		9	5.74
	10	4.250		10	6.38
	11	4.675		11	7.02
	12	5.100		12	7.65

HOT ROLLED STEEL BARS

FLATS

Size in Inches		Est Weight per Ft. Lbs.
1/4 x	1/2	.425
	5/8	.531
	3/4	.638
	7/8	.744
	1	.850
	1-1/4	1.06
	1-1/2	1.28
	1-3/4	1.49
	2	1.70
	2-1/4	1.91
	2-1/2	2.13
	3	2.55
	3-1/4	2.76
	3-1/2	2.98
	3-3/4	3.19
	4	3.40
	4-1/2	3.83
	4-3/4	4.04
	5	4.25
	5-1/2	4.68
	6	5.10
	7	5.95
	8	6.80
	9	7.65
	10	8.50
	12	10.20
5/16 x	1/2	.531
	5/8	.664
	3/4	.797
	1	1.06
	1-1/4	1.33
	1-1/2	1.59
	1-3/4	1.86
	2	2.13

Size in Inches		Est Weight per Ft. Lbs.
5/16 x	2-1/4	2.40
	2-1/2	2.66
	3	3.19
	3-1/2	3.72
	4	4.25
	4-1/2	4.78
	5	5.31
	5-1/2	5.84
	6	6.38
	8	8.50
	10	10.63
	12	12.75
3/8 x	1/2	.638
	5/8	.797
	3/4	.956
	1	1.28
	1-1/4	1.59
	1-1/2	1.91
	1-3/4	2.23
	2	2.55
	2-1/4	2.87
	2-1/2	3.19
	2-3/4	3.51
	3	3.83
	3-1/2	4.46
	4	5.10
	4-1/2	5.74
	4-3/4	6.06
	5	6.38
	5-1/2	7.01
	6	7.65

HOT ROLLED STEEL BARS

FLATS

Size In Inches		Est Weight per Ft. Lbs.
3/8 x	7	8.92
	8	10.20
	9	11.48
	10	12.75
	12	15.30
1/2 x	5/8	1.06
	3/4	1.28
	7/8	1.49
	1	1.70
	1-1/4	2.13
	1-1/2	2.55
	1-3/4	2.98
	2	3.40
	2-1/4	3.83
	2-1/2	4.25
	2-3/4	4.68
	3	5.10
	3-1/2	5.95
	4	6.80
	4-1/4	7.23
	4-1/2	7.65
	5	8.50
	5-1/2	9.35
	5-3/4	9.78
	6	10.20
	7	11.90
	8	13.60
	10	17.00
	11	18.70
	12	20.40
5/8 x	3/4	1.59
	1	2.13
5/8 x	1-1/4	2.66
	1-1/2	3.19
	1-3/4	3.72
	2	4.25
	2-1/4	4.78
	2-1/2	5.31
	3	6.38
	3-1/4	6.91
	3-1/2	7.44
	4	8.50
	4-1/2	9.56
	4-3/4	10.10
	5	10.63
	6	12.75
	8	17.00
	10	21.25
	12	25.50
3/4 x	1	2.55
	1-1/4	3.19
	1-1/2	3.83
	1-3/4	4.46
	2	5.10
	2-1/4	5.74
	2-1/2	6.38
	3	7.65
	3-1/2	8.93
	4	10.20
	4-1/2	11.48
	5	12.75
	5-1/2	14.03
	6	15.30
	7	17.85
	8	20.40

HOT ROLLED STEEL BARS

FLATS

Size In Inches		Est Weight per Ft. Lbs.
3/4 x	10	25.50
	12	30.60
7/8 x	2	5.95
	3	8.93
	3-1/2	10.41
	4	11.90
	5	14.88
	6	17.85
	8	23.80
1 x	1-1/4	4.25
	1-1/2	5.10
	1-3/4	5.95
	2	6.80
	2-1/2	8.50
	3	10.20
	3-1/2	11.90
	4	13.60
	4-1/2	15.30
	5	17.00
	5-1/2	18.70
	6	20.40
	7	23.80
	8	27.20
	10	34.00
	12	40.80
1-1/4 x	2	8.50
	2-1/2	10.63
25.50		
	3	12.75
	3-1/2	14.88
	4	17.00

Size In Inches		Est Weight per Ft. Lbs.
1-1/4 x	4-1/2	19.13
	5	21.25
	6	25.50
	8	34.00
	10	42.50
	12	51.00
1-1/2 x	2	10.20
	2-1/2	12.75
	3	15.30
	4	20.40
	4-1/2	22.95
	5	25.50
	6	30.60
	8	40.80
	10	51.00
	12	61.20
1-3/4 x	2	11.90
	2-1/2	14.88
	3	17.85
	3-1/2	20.83
	4	23.80
	6	35.70
	8	47.60
2 x	2-1/2	17.00
	3	20.40
	3-1/2	23.80
	4	27.20
	5	34.00
	6	40.80
	8	54.40
2-1/4 x	4	30.60
2-1/2 x	3	
	4	34.00
	4-1/2	38.26
	5	42.50
	6	51.00
3 x	4	40.80
	5	51.00
	6	61.20

STEEL BARS

ROUNDS

Size In Inches	Est. Weight per Ft. Lbs.	Size In Inches	Est. Weight per Ft. Lbs.
3/16 dia.	.094	2-9/16 dia.	17.54
1/4	.167	2-5/8	18.40
9/32	.211	2-11/16	19.29
5/16	.261	2-3/4	20.20
3/8	.376	2-13/16	21.12
7/16	.511	2-7/8	22.07
1/2	.668	2-15/16	23.04
9/16	.845	3	24.03
5/8	1.04	3-1/16	25.05
11/16	1.26	3-1/8	26.08
3/4	1.50	3-3/16	27.13
13/16	1.76	3-1/4	28.21
7/8	2.05	3-5/16	29.30
15/16	2.35	3-3/8	30.42
1	2.67	3-7/16	31.55
1-1/16	3.01	3-1/2	32.71
1-1/8	3.38	3-5/8	35.09
1-3/16	3.77	3-11/16	36.31
1-1/4	4.17	3-3/4	37.55
1-5/16	4.60	3-7/8	40.10
1-3/8	5.05	3-15/16	41.40
1-7/16	5.52	4	42.73
1-1/2	6.01	4-1/8	45.44
1-9/16	6.52	4-3/16	46.83
1-5/8	7.05	4-1/4	48.23
1-11/16	7.60	4-3/8	51.11
1-3/4	8.18	4-7/16	52.58
1-13/16	8.77	4-1/2	54.08
1-7/8	9.39	4-5/8	57.12
1-15/16	10.02	4-3/4	60.25
2	10.68	4-15/16	65.10
2-1/16	11.36	5	66.76
2-1/8	12.06	5-1/8	70.14
2-3/16	12.78	5-1/4	73.60
2-1/4	13.52	5-3/8	77.15
2-5/16	14.28	5-7/16	78.95
2-3/8	15.06	5-1/2	80.78
2-7/16	15.87	5-3/4	88.29
2-1/2	16.69	5-15/16	94.14
		6	96.13
		7	130.85

STEEL BARS

SQUARES

Size In Inches	Est. Weight per Ft. Lbs.	Size In Inches	Est Weight per Ft. Lbs.
1/8 square	.053	1-3/8 square	6.43
3/16	.120	1-1/2	7.65
1/4	.213	1-5/8	8.98
5/16	.332	1-3/4	10.41
3/8	.478	1-7/8	11.95
7/16	.651		
1/2	.850		
5/8	1.33	2	13.60
11/16	1.61	2-1/4	17.21
3/4	1.91	2-1/2	21.25
7/8	2.60	2-3/4	25.71
15/16	2.99		
1	3.40	3	30.60
1-1/8	4.30	3-1/2	41.65
1-1/4	5.31	4	54.40

HEXAGONS

Size In Inches	Est. Weight per Ft. Lbs.	Size In Inches	Est Weight per Ft. Lbs.
1/4 across the flat	.184	1 across the flat	2.95
5/16	.288	1-1/8	3.73
3/8	.414	1-1/4	4.60
7/16	.564	1-5/16	5.07
1/2	.736	1-1/2	6.63
5/8	1.15	1-5/8	7.78
3/4	1.66	1-3/4	9.02
7/8	2.25	2	11.78
15/16	2.59	3	26.50

COLD FINISHED STEEL FLATS

	Size In Inches	Est. Weight per Ft. Lbs.
1/8 x	1/4	.106
	3/8	.159
	1/2	.213
	5/8	.266
	3/4	.319
	7/8	.372
	1	.425
	1-1/8	.478
	1-1/4	.531
	1-1/2	.638
	1-3/4	.744
	2	.850
	2-1/4	.956
	2-1/2	1.063
	3	1.275
	3-1/2	1.488
	4	1.700
	5	2.125
	6	2.550
3/16 x	5/16	.199
	3/8	.239
	1/2	.319
	5/8	.398
	3/4	.478
	7/8	.558
	1	.638
	1-1/4	.797
	1-1/2	.956
	1-3/4	1.116
	2	1.275
	2-1/4	1.434
	2-1/2	1.594
	3	1.913
	4	2.550
	5	3.188
	6	3.825
1/4 x	5/16	.266
	3/8	.319
	1/2	.425
	5/8	.531
	3/4	.638
	7/8	.744
	1	.850

	Size In Inches	Est Weight per Ft. Lbs.
1/4 x	1-1/4	1.063
	1-1/2	1.275
	1-3/4	1.488
	2	1.700
	2-1/4	1.913
	2-1/2	2.125
	2-3/4	2.338
	3	2.550
	3-1/2	2.975
	4	3.400
	4-1/2	3.825
	5	4.250
	6	5.100
	8	6.800
	10	8.500
	12	10.200
5/16 x	3/8	.398
	1/2	.531
	3/4	.797
	7/8	.930
	1	1.063
	1-1/4	1.328
	1-1/2	1.594
	1-3/4	1.859
	2	2.125
	2-1/4	2.390
	2-1/2	2.656
	3	3.188
	3-1/2	3.719
	4	4.250
	5	5.313
	6	6.375
	8	8.500
3/8 x	1/2	.638
	5/8	.797
	3/4	.956
	7/8	1.116
	1	1.275
	1-1/4	1.594
	1-1/2	1.913
	1-3/4	2.231
	2	2.550

COLD FINISHED STEEL FLATS

	Size In Inches	Est. Weight per Ft. Lbs.
3/8 x	2-1/4	2.869
	2-1/2	3.188
	3	3.825
	3-1/2	4.463
	4	5.100
10.625		
	4-1/2	5.740
	5	6.375
	6	7.650
	8	10.200
	10	12.750
	12	15.300
7/16 x	1/2	.744
	1	1.488
1/2 x	5/8	1.063
	3/4	1.275
	7/8	1.488
	1	1.700
	1-1/8	1.913
	1-1/4	2.125
	1-1/2	2.550
	1-3/4	2.975
	2	3.400
	2-1/4	3.825
	2-1/2	4.250
	2-3/4	4.675
	3	5.100
	3-1/4	5.525
	3-1/2	5.950
	4	6.800
	4-1/2	7.650
	5	8.500
	6	10.200
	8	13.600
	10	17.000
	12	20.400
5/8 x	3/4	1.594
	7/8	1.859
	1	2.125
	1-1/4	2.656
	1-1/2	3.188
	1-3/4	3.719
	2	4.250
	2-1/4	4.781
	2-1/2	5.313

	Size In Inches	Est Weight per Ft. Lbs.
5/8 x	3	6.375
	3-1/2	7.438
	3-3/4	7.969
	4	8.500
	5	
	5-1/2	11.688
	6	12.750
	8	17.000
	10	21.250
	12	25.500
3/4 x	7/8	2.231
	1	2.550
	1-1/8	2.870
	1-1/4	3.188
	1-1/2	3.825
	1-3/4	4.463
	2	5.100
	2-1/4	5.738
	2-1/2	6.375
	2-3/4	7.013
	3	7.650
	3-1/2	8.925
	4	10.200
	4-1/2	11.475
	5	12.750
	6	15.300
	6-1/2	16.575
	8	20.400
	10	25.500
	12	30.600
7/8 x	1	2.975
	1-1/2	4.463
	2	5.950
	4	11.900
	5	14.880
	6	17.850
1 x	1-1/4	4.250
	1-1/2	5.100
	1-3/4	5.950
	2	6.800
	2-1/4	7.650
	2-1/2	8.500

COLD FINISHED STEEL FLATS

	Size In Inches	Est. Weight per Ft. Lbs.
1 x	3	10.200
	3-1/2	11.900
	4	13.600
	4-1/2	15.300
	5	17.000
	6	20.400
	8	27.200
	10	34.000
	12	40.800
1-1/4 x	1-1/2	6.375
	1-3/4	7.438
	2	8.500
	2-1/4	9.560
	2-1/2	10.625
	3	12.750
	3-1/2	14.875
	4	17.000
	4-1/2	19.130
	5	21.250
	5-1/2	23.380
	6	25.500
	8	34.000
	10	42.500
	12	81.600
1-1/2 x	1-3/4	8.925
	2	10.200
	2-1/2	12.750
	3	15.300
	3-1/2	17.850
	3-3/4	19.120
	4	20.400
	5	25.500

	Size In Inches	Est Weight per Ft. Lbs.
1-1/2 x	6	30.600
	8	40.800
	8-1/2	43.350
	10	51.000
	12	61.200
1-3/4 x	2	11.900
	2-1/2	14.875
	3	17.850
	3-1/2	20.825
	4	23.800
	5	29.750
	6	35.700
2 x	2-1/2	17.000
	2-3/4	18.700
	3	20.400
	3-1/2	23.800
	3-3/4	25.500
	4	27.200
	5	34.000
	6	40.800
	8	54.400
	10	68.000
2-1/2 x	3	25.500
	4	34.000
	5	42.500
	6	51.000
3 x	3-1/2	35.700
	4	40.800
	6	61.200

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Angles and Channels

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STEEL ANGLES

BAR SIZES

Size In Inches	Est. Weight per Ft. Lbs.
1/2 x 1/2 x 1/8	.38
5/8 x 5/8 x 1/8	.48
3/4 x 3/4 x 1/8	.59
3/16	.84
7/8 x 7/8 x 1/8	.70
3/16	1.00
1 x 1 x 1/8	.80
3/16	1.16
1/4	1.49
1-1/4 x 1-1/4 x 1/8	1.01
3/16	1.48
1/4	1.92
5/16	2.33
1-1/2 x 1-1/2 x 1/8	1.23
3/16	1.80
1/4	2.34
5/16	2.86
3/8	3.35
1-3/4 x 1-3/4 x 1/8	1.44
3/16	2.12

Size In Inches	Est Weight per Ft. Lbs.
1-3/4 x 1-3/4 x 1/ 4	2.77
5/16	3.39
2 x 1-1/2 x 1/8	1.44
3/16	2.12
1/4	2.77
5/16	3.39
2 x 2 x 1/8	1.65
3/16	2.44
1/4	3.19
5/16	3.92
3/8	4.70
2-1/2 x 2 x 1/8	1.86
3/16	2.75
1/4	3.62
5/16	4.50
3/8	5.30
2-1/2 x 2-1/2 x 1/8	2.08
3/16	3.07
1/4	4.10
5/16	5.00
3/8	5.90
1/2	7.70

STEEL ANGLES – STRUCTIAL SIZES

Size In Inches		Est. Weight per Ft. Lbs.
3 x 2 x	3/16	3.07
	1/4	4.10
	5/16	5.00
	1/2	7.70
3 x 2-1/2 x	3/16	3.70
	1/4	4.50
	5/16	5.60
	3/8	6.60
	1/2	8.50
3 x 3 x	1/8	2.50
	3/16	3.70
	1/4	4.90
	5/16	6.10
	3/8	7.20
	1/2	9.40
3-1/2 x 2-1/2 x	1/4	4.90
	5/16	6.10
	3/8	7.20
	1/2	9.40
3-1/2 x 3 x	1/4	5.40
	5/16	6.60
	3/8	7.90
	1/2	10.20
3-1/2 x 3-1/2 x	1/4	5.80
	5/16	7.20
	3/8	8.50
	1/2	11.10
	5/8	13.60
4 x 3 x	1/4	5.80
	5/16	7.20
	3/8	8.50
	1/2	11.10
	5/8	13.60
4 x 3-1/2 x	1/4	6.20
	5/16	7.70
	3/8	9.10
	1/2	11.90
4 x 4 x	1/4	6.60
	5/16	8.20
	3/8	9.80

Size In Inches		Est Weight per Ft. Lbs.
4 x 4 x	1/2	12.80
	3/4	18.50
5 x 3 x	1/4	6.60
	5/16	8.20
	3/8	9.80
	1/2	12.80
5 x 3-1/2 x	1/4	7.00
	5/16	8.70
	3/8	10.40
	1/2	13.60
5 x 5 x	5/16	10.30
	3/8	12.30
	1/2	16.20
	3/4	23.60
6x 3-1/2 x	5/16	9.80
	3/8	11.70
	1/2	15.30
6 x 4 x	5/16	10.30
	3/8	12.30
	1/2	16.20
	5/8	20.00
	3/4	23.60
6 x 6 x	5/16	12.40
	3/8	14.90
	1/2	19.60
	5/8	24.20
	3/4	28.70
	1	37.40
7 x 4 x	3/8	13.60
	1/2	17.90
	3/4	26.20
8 x 4 x	1/2	19.60
	5/8	24.20
	3/4	28.70
	1	37.40
8 x 6 x	1/2	23.00
	3/4	33.80
	1	44.20

STEEL CHANNELS

BAR SIZES

Size In Inches	Est. Weight per Ft. Lbs.	Size In Inches	Est Weight per Ft. Lbs.
3/4 x 3/8 x 1/8	.54	1-1/2 x 3/4 x 1/8	1.17
7/8 x 3/8 x 1/8	.61		
1 x 3/8 x 1/8	.68	2 x 1/2 x 1/8	1.47
1 x 1/2 x 1/8	.80		
1-1/4 x 1/2 x 1/8	1.00	2 x 1 x 1/8	1.98
		2 x 1 x 3/16	2.57
1-1/2 x 1/2 x 1/8	1.04		
		2-1/2 x 5/8 x 3/16	2.27

STEEL CHANNELS

STAIR/STRINGER SIZES

Depth of Channel in Inches	Est. Weight per ft. Lbs.	Thickness of Web in Inches	Width of Flange in Inches	Section Modulus
10	6.5	.15	1.12	4.4
10	8.4	.17	1.50	6.5
12	10.6	.19	1.50	9.3

NEED A SIZE NOT SHOWN? ASK US TO CHECK!

STANDARD CHANNELS

Imperial Designation							Metric Designation							
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3				Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Modulus 10-3mm3
C3	x 4.1	3	1.41	.273	.170	1.11	C75	x	6	76	35	6.9	4.3	17.6
	x 5.0	3	1.50	.273	.258	1.23		x	7	76	37	6.9	6.6	19.7
	x 6.0	3	1.60	.273	.356	1.38		x	9	76	40	6.9	9.0	22.3
C4	x 5.4	4	1.58	.296	.184	1.93	C100	x	8	102	40	7.5	4.7	31.6
	x 6.25	4	1.65	.296	.247	2.10		x	9	102	42	7.5	6.3	33.9
	x 7.25	4	1.72	.296	.321	2.30		x	11	102	43	7.5	8.2	37.4
C5	x 6.7	5	1.75	.320	.190	3.00	C130	x	10	127	44	8.1	4.8	48.6
	x 9.0	5	1.89	.320	.325	3.56		x	13	127	47	8.1	8.3	57.6
	x 11.5	5	2.03	.320	.472	4.10		x	17	127	52	8.1	12.0	66.2
C6	x 8.2	6	1.92	.343	.200	4.37	C150	x	12	152	48	8.7	5.1	70.6
	x 10.5	6	2.03	.343	.314	5.07		x	16	152	51	8.7	8.0	81.9
	x 13.0	6	2.16	.437	.437	5.80		x	19	152	54	8.7	11.1	93.7
C7	x 9.8	7	2.09	.366	.210	3.09	C180	x	15	178	53	9.3	5.3	99.6
	x 12.25	7	2.19	.366	.314	6.91		x	18	178	55	9.3	8.0	113.0
	x 14.75	7	2.30	.366	.419	7.77		x	22	178	58	9.3	10.6	127.0

STANDARD CHANNELS

Imperial Designation							Metric Designation							
		Depth Ins.	Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10-3mm3
C8	x 11.5	8	2.26	.390	.220	8.15	C200	x 17	203	57	9.9	5.6	133
	x 13.75	8	2.34	.390	.303	9.03		x 21	203	59	9.9	7.7	147
	x 18.75	8	2.53	.390	.487	11.0		x 28	203	64	9.9	12.4	180
C9	x 1.34	9	2.43	.413	.233	10.6	C230	x 20	229	61	10.5	5.9	173
	x 15.0	9	2.48	.413	.285	11.3		x 22	229	63	10.5	7.2	186
	x 20.0	9	2.65	.413	.448	13.5		x 30	229	67	10.5	11.4	222
C10	x 15.3	10	2.60	.436	.240	13.5	C250	x 23	254	65	11.1	6.1	219
	x 20.0	10	2.74	.436	.379	15.8		x 30	254	69	11.1	9.6	257
	x 25.0	10	2.89	.436	.526	18.2		x 37	254	73	11.1	13.4	299
	x 30.0	10	3.03	.436	.673	20.6		x 45	254	76	11.1	17.1	337
C12	x 20.7	12	2.94	.501	.282	21.5	C310	x 31	305	74	12.7	7.2	351
	x 25.0	12	3.05	.501	.687	24.0		x 37	305	77	12.7	9.8	393
	x 30.0	12	3.17	.501	.510	27.0		x 45	305	80	12.7	13.0	442
C15	x 33.9	15	3.40	.650	.400	42.0	C380	x 50	381	86	16.5	10.2	687
	x 40.0	15	3.52	.650	.520	56.5		x 60	381	89	16.5	13.2	760
	x 50.0	15	3.72	.650	.716	53.9		x 74	381	94	16.5	18.2	881

morton metals

Beams

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ISO 9001:2000 QMI REGISTERED MANAGEMENT SYSTEM

STANDARD BEAMS

Imperial Designation								Metric Designation							
			Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3				Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10-3mm3
S3	x	5.7	3	2.33	.260	.170	1.68	S75	x	8	76	59	6.6	4.3	27.4
	x	7.5	3	2.51	.260	.349	1.95		x	11	76	64	6.6	8.9	31.6
S4	x	7.7	4	2.66	.293	.193	3.04	S100	x	11	102	67	7.4	4.8	49.4
	x	9.5	4	2.80	.293	.326	3.40		x	14.1	102	70	7.4	8.3	55.2
S5	x	10.0	5	3.00	.326	.214	4.92	S130	x	15	127	76	8.3	5.3	80.4
	x	14.75	5	3.28	.326	.494	6.08		x	22	127	83	8.3	12.5	99.6
S6	x	12.5	6	3.33	.359	.232	7.37	S150	x	19	152	84	9.1	5.8	119
	x	17.25	6	3.57	.359	.465	8.77		x	26	152	90	9.1	11.8	143
S7	x	15.3	7	3.66	.392	.252	10.5	S180	x	22.8	178	92	10.0	6.4	172
	x	20.0	7	3.86	.392	.450	12.1		x	30	178	97	10.0	11.4	198

STANDARD BEAMS

Imperial Designation								Metric Designation							
			Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3				Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10-3mm3
S8	x	18.4	8	4.00	.425	.271	14.4	S200	x	27	203	102	10.8	6.9	237
	x	23.0	8	4.17	.425	.441	16.2		x	34	203	106	10.8	11.2	266
S10	x	25.4	10	4.66	.491	.311	24.8	S250	x	38	254	118	12.5	7.9	405
	X	35.0	10	4.94	.491	.594	29.4		x	52	254	126	12.5	15.1	485
S12	x	31.8	12	5.00	.544	.350	36.3	S310	x	47	305	127	13.8	8.9	597
	x	35.0	12	5.08	.544	.428	38.2		x	52	305	129	13.8	10.9	629
	x	40.8	12	5.25	.659	.472	45.3		x	60.7	305	133	16.8	11.7	747
	x	50.0	12	5.48	.659	.687	50.8		x	74	305	139	16.8	17.4	836
S15	x	42.9	15	5.50	.622	.411	59.6	S380	x	64	381	140	15.8	10.4	980
	x	50.0	15	5.64	.622	.550	64.8		x	74	381	143	15.8	14.0	1060

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation						
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10-3mm3
W4	x 13	4.16	4.06	.345	.280	5.46	W100	x 19	106	103	8.8	7.1	89.9
W5	x 16	5.01	5.00	.360	.240	8.55	W130	x 24	127	127	9.1	6.1	139
	x 19	5.15	5.03	.430	.270	10.2		x 28	131	128	10.9	6.9	168
W6	x 9	5.90	3.94	.215	.170	5.56	W150	x 14	150	100	5.5	4.3	91.5
	x 12	6.03	4.00	.280	.230	7.31		x 18	153	102	7.1	5.8	120
	x 16	6.28	4.03	.405	.260	10.2		x 24	160	102	10.3	6.6	168
W6	x 15	5.99	5.99	.260	.230	9.72	W150	x 22	152	152	6.6	5.8	159
	x 20	6.20	6.02	.365	.260	13.4		x 30	157	153	9.3	6.6	219
	x 25	6.38	6.08	.455	.320	16.7		x 37	162	154	11.6	8.1	274
W8	x 10	7.89	3.94	.205	.170	7.81	W200	x 15	200	100	5.2	4.3	127
	x 13	7.99	4.00	.255	.230	9.91		x 19	203	102	6.5	5.8	163
	x 14	7.98	5.21	.250	.195	11.8		x 21	203	133	6.35	4.95	193
	x 15	8.11	4.02	.315	.245	11.8		x 22	206	102	8.0	6.2	194
W8	x 18	8.14	5.25	.330	.230	15.2	W200	x 27	207	133	8.4	5.8	249
	x 21	8.28	5.27	.400	.250	18.2		x 31	210	134	10.2	6.4	299

WIDE FLANGE BEAMS

Imperial Designation						Metric Designation					
	Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus 1ns.3		Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10-3mm3
W8 x 24	7.93	6.49	.400	.245	20.9	W200 x 36	201	165	10.2	6.2	342
x 28	8.06	6.53	.465	.285	24.3	x 42	205	166	11.8	7.2	399
W8 x 31	8.00	8.00	.435	.285	27.5	W200 x 46	203	203	11.0	7.2	448
x 35	8.12	8.02	.495	.310	31.2	x 52	206	204	12.6	7.9	512
x 40	8.25	8.07	.560	.360	35.5	x 59	210	205	14.2	9.1	582
x 48	8.50	8.11	.685	.400	43.3	x 71	216	206	17.4	10.2	709
x 58	8.75	8.22	.810	.510	52.0	x 86	222	209	20.6	13.0	853
x 67	9.00	8.28	.935	.570	60.4	x 100	229	210	23.7	14.5	989
W10 x 12	9.87	3.96	.210	.190	10.9	W250 x 18	251	101	5.3	4.8	179
x 15	9.99	4.00	.270	.230	13.8	x 22	254	102	6.9	5.8	227
x 16	9.95	5.71	.250	.195	16.6	x 24	253	145	6.35	4.95	272
x 17	10.11	4.01	.330	.240	16.2	x 25	257	102	8.4	6.1	266
x 19	10.24	4.02	.395	.250	18.8	x 28	260	102	10.0	6.4	307
W10 x 22	10.17	5.75	.360	.240	23.2	W250 x 33	258	146	9.1	6.1	379
x 26	10.33	5.77	.440	.260	27.9	x 39	262	147	11.2	6.6	459
x 30	10.47	5.81	.510	.300	32.4	x 45	266	148	13.0	7.6	534
W10 x 33	9.73	7.96	.435	.290	35.0	W250 x 49	247	202	11.0	7.4	572
x 39	9.92	7.98	.530	.315	42.1	x 58	252	203	13.5	8.0	693
x 45	10.10	8.02	.620	.350	49.1	x 67	257	204	15.7	8.9	806

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation							
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3				Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10-3mm3
W10	x 49	9.98	10.00	.560	.340	54.6	W250	x	73	253	254	14.2	8.6	891
	x 54	10.09	10.03	.615	.370	60.0		x	80	256	255	15.6	9.4	982
	x 60	10.22	10.08	.680	.420	66.7		x	89	260	256	17.3	10.7	1100
	x 68	10.40	10.13	.770	.470	75.7		x	101	264	257	19.6	11.9	1240
	x 77	10.60	10.19	.870	.530	85.9		x	115	269	259	22.1	13.5	1410
	x 88	10.84	10.26	.990	.605	98.5		x	131	275	261	25.1	15.4	1610
	x 100	11.10	10.34	1.12	.680	112.0		x	149	282	263	28.4	17.3	1840
	x 112	11.36	10.42	1.25	.755	126.0		x	167	289	265	31.8	19.2	2080
W12	x 14	11.91	3.97	.225	.200	14.9	W310	x	21	303	101	5.7	5.1	244
	x 16	11.99	3.99	.265	.220	17.1		x	24	305	101	6.7	5.6	280
	x 19	12.16	4.00	.350	.235	21.3		x	28	309	102	8.9	6.0	351
	x 21	12.04	6.45	.290	.195	26.7		x	31	306	164	7.37	4.95	437
	x 22	12.31	4.03	.425	.260	25.4		x	33	313	102	10.8	6.6	415
W12	x 26	12.22	6.49	.380	.230	33.4	W310	x	39	310	165	9.7	5.8	549
	x 30	12.34	6.52	.440	.260	38.6		x	45	313	166	11.2	6.6	634
	x 35	12.50	6.56	.520	.300	45.6		x	52	317	167	13.2	7.6	747

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation						
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W12	x 40	11.94	8.01	.515	.295	51.9	W310	x 60	303	203	13.1	7.5	849
	x 45	12.06	8.05	.575	.335	58.1		x 67	306	204	14.6	8.5	949
	x 50	12.19	8.08	.640	.370	64.7		x 74	310	205	16.3	9.4	1060
W12	x 53	12.06	9.99	.575	.345	70.6	W310	x 79	306	254	14.6	8.8	1160
	x 58	12.19	10.01	.640	.360	78.0		x 86	310	254	16.3	9.1	1280
W12	x 65	12.12	12.00	.605	.390	87.9	W310	x 97	308	305	15.4	9.9	1440
	x 72	12.25	12.04	.670	.430	97.4		x 107	311	306	17.0	10.9	1590
	x 79	12.38	12.08	.735	.470	107.0		x 118	314	307	18.7	11.9	1750
	x 87	12.53	12.13	.810	.515	118.0		x 129	318	308	20.6	13.1	1940
	x 96	12.71	12.16	.900	.550	131.0		x 143	323	309	22.9	14.0	2150
	x 106	12.89	12.22	.990	.610	145.0		x 158	327	310	25.1	15.5	2360
	x 120	13.12	12.32	1.100	.710	163.0		x 179	333	313	28.1	18.0	2680
	x 136	13.41	12.40	1.250	.790	186.0		x 202	341	315	31.8	20.1	3050
	x 152	13.71	12.48	1.400	.870	209.0		x 226	348	317	35.6	22.1	3420
	x 170	14.03	12.57	1.560	.960	235.0		x 253	356	319	39.6	24.4	3830
	x 190	14.38	12.67	1.730	1.060	263.0		x 283	365	322	44.1	26.9	4310
W14	x 22	13.74	5.00	.335	.230	29.0	W360	x 33	349	127	8.5	5.8	474
	x 26	13.91	5.02	.420	.255	35.3		x 39	353	128	10.7	6.5	580

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation							
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3				Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W14	x 30	13.84	6.73	.385	.270	42.0	W360	x	45	352	171	9.8	6.9	691
	x 34	13.98	6.74	.455	.285	48.6		x	51	355	171	11.6	7.2	796
	x 38	14.10	6.77	.515	.310	54.6		x	57	358	172	13.1	7.9	897
W14	x 43	13.66	7.99	.530	.305	62.7	W360	x	64	347	203	13.5	7.7	1030
	x 48	13.79	8.03	.595	.340	70.3		x	72	350	204	15.1	8.6	1150
	x 53	13.92	8.06	.660	.370	77.8		x	79	354	205	16.8	9.4	1280
W14	x 61	13.89	9.99	.645	.375	92.2	W360	x	91	353	254	16.4	9.5	1510
	x 68	14.04	10.03	.720	.415	103.0		x	101	357	255	18.3	10.5	1690
	x 74	14.17	10.07	.785	.450	112.0		x	110	360	256	19.9	11.4	1840
	x 82	14.31	10.13	.855	.510	123.0		x	122	363	257	21.7	13.0	2010
W14	x 90	14.02	14.52	.710	.440	143.0	W360	x	134	356	369	18.0	11.2	2330
	x 99	14.16	14.56	.780	.485	157.0		x	147	360	370	19.8	12.3	2570
	x 109	14.32	14.60	.860	.525	173.0		x	162	364	371	21.8	13.3	2830
	x 120	14.48	14.67	.940	.590	190.0		x	179	368	373	23.9	15.0	3120
	x 132	14.66	14.73	1.03	.645	209.0		x	196	372	374	26.2	16.4	3420

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation						
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W14	x 145	14.78	15.50	1.09	.680	232	W360	x 216	375	394	27.7	17.3	3790
	x 159	14.98	15.56	1.19	.745	254		x 237	380	395	30.2	18.9	4150
	x 176	15.22	15.65	1.31	.830	281		x 262	387	398	33.3	21.1	4620
	x 193	15.48	15.71	1.44	.890	310		x 287	393	399	36.6	22.6	5070
	x 211	15.72	15.80	1.56	.980	338		x 314	399	401	39.6	24.9	5530
	x 233	16.04	15.89	1.72	1.070	375		x 347	407	404	43.7	27.2	6140
	x 257	16.38	16.00	1.89	1.080	415		x 382	416	406	48.0	29.8	6790
	x 283	16.74	16.11	2.07	1.290	459		x 421	425	409	52.6	32.8	7510
	x 311	17.12	16.23	2.26	1.410	506		x 463	435	412	57.4	35.8	8280
	x 342	17.54	16.36	2.47	1.540	559		x 509	446	416	62.7	39.1	9170
	x 370	17.92	16.48	2.66	1.660	607		x 551	455	418	67.6	42.0	9940
	x 398	18.29	16.59	2.84	1.770	656		x 592	465	421	72.3	45.0	10800
	x 426	18.67	16.70	3.04	1.880	707		x 634	474	424	77.1	47.6	11600
W14	x 455	19.02	16.84	3.21	2.020	756	W360	x 677	483	428	81.5	51.2	12400
	x 500	19.60	17.01	3.50	2.190	838		x 744	498	432	88.9	55.6	13700
	x 550	20.24	17.20	3.82	2.380	931		x 818	514	437	97.0	60.5	15300
	x 605	20.92	17.42	4.16	2.600	1040		x 900	531	442	106.0	65.9	17000
	x 665	21.64	17.65	4.52	2.830	1150		x 990	550	448	115.0	71.9	18900
	x 730	22.42	17.89	4.91	3.070	1280		x 1086	569	454	125.0	78.0	20900

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation						
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W16	x 26	15.69	5.50	.345	.250	38.4	W410	x 39	399	140	8.8	6.4	634
	x 31	15.88	5.52	.440	.275	47.2		x 46	403	140	11.2	7.0	773
W16	x 36	15.86	6.98	.430	.295	56.5	W410	x 54	403	177	10.9	7.5	924
	x 40	16.01	7.00	.505	.305	64.7		x 60	407	178	12.8	7.7	1060
	x 45	16.13	7.04	.565	.345	72.7		x 67	410	179	14.4	8.8	1200
	x 50	16.26	7.07	.630	.380	81.0		x 74	413	180	16.0	9.7	1330
	x 57	16.43	7.12	.715	.430	92.2		x 85	417	181	18.2	10.9	1510
W16	x 67	16.33	10.23	.665	.395	117.0	W410	x 100	415	260	16.9	10.0	1920
	x 77	16.52	10.30	.760	.455	134.0		x 114	420	261	19.3	11.6	2200
	x 89	16.75	10.36	.875	.525	155.0		x 132	425	263	22.2	13.3	2530
	x 100	16.97	10.43	.985	.585	175.0		x 149	431	265	25.0	14.9	2870
W18	x 35	17.70	6.00	.425	.300	57.6	W460	x 52	450	152	10.8	7.6	943
	x 40	17.90	6.02	.525	.515	68.4		x 60	455	153	13.3	8.0	1120
	x 45	18.06	6.06	6.05	.360	78.8		x 68	459	154	15.4	9.1	1290

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation							
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3				Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W18	x 41	17.70	7.45	.425	.320	70.3	W460	x	61	450	189	10.8	8.1	1150
	x 45	17.86	7.48	.499	.335	80.5		x	67	454	190	12.7	8.5	1320
	x 50	17.99	7.50	.570	.355	88.9		x	74	457	190	14.5	9.0	1460
	x 55	18.11	7.53	.630	.390	98.3		x	82	460	191	16.0	9.9	1610
	x 60	18.24	7.56	.695	.415	108.0		x	89	463	192	17.7	10.5	1770
	x 65	18.35	7.59	.750	.450	117.0		x	97	466	193	19.0	11.4	1910
	x 71	18.47	7.64	.810	.495	127.0		x	106	469	194	20.6	12.6	2080
W18	x 76	18.21	11.04	.680	.425	146.0	W460	x	113	463	280	17.3	10.8	2400
	x 86	18.39	11.09	.770	.480	166.0		x	128	467	282	19.6	12.2	2730
	x 97	18.59	11.14	.870	.535	188.0		x	144	472	283	22.1	13.6	3080
	x 106	18.73	11.20	.940	.590	204.0		x	158	476	284	23.9	15.0	3350
	x 119	18.97	11.26	1.060	.655	231.0		x	177	482	286	26.9	16.6	3780
W21	x 44	20366	6.50	.450	.350	81.6	W530	x	66	525	165	11.4	8.9	1340
	x 48	20.62	8.14	.430	.350	93.8		x	72	524	207	10.9	8.89	1530
	x 50	20.83	6.53	.535	.380	94.5		x	74	529	166	13.6	9.7	1550
	x 57	21.06	6.56	.650	.405	111.0		x	85	535	166	16.5	10.3	1810

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation						
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W21	x 55	20.80	8.22	.522	.375	110	W530	x 82	528	209	13.3	9.5	1810
	x 62	20.99	8.24	.615	.400	127		x 92	533	209	15.6	10.2	2070
	x 68	21.13	8.27	.685	.430	140		x 101	537	210	17.4	10.9	2300
	x 73	21.24	8.30	.740	.455	151		x 109	539	211	18.8	11.6	2480
	x 83	21.43	8.36	.835	.515	171		x 123	544	212	21.2	13.1	2800
	x 93	21.62	8.42	.930	.580	192		x 138	549	214	23.6	14.7	3140
W21	x 101	21.36	12.29	.800	.500	227	W530	x 150	543	312	20.3	12.7	3710
	x 111	21.51	12.34	.875	.550	249		x 165	546	313	22.2	14.0	4060
	x 122	21.68	12.39	.960	.600	273		x 182	551	315	24.4	15.2	4480
	x 132	21.83	12.44	1.040	.650	295		x 196	554	316	26.3	16.5	4840
	x 147	22.06	12.51	1.150	.720	329		x 219	560	318	29.2	18.3	5390
W24	x 55	23.57	7.00	.505	.395	114	W610	x 82	599	178	12.8	10.0	1870
	x 56	23.48	8.90	.460	.355	125		x 84	596	226	11.7	9.02	2050
	x 61	23.56	8.93	.500	.380	136		x 91	598	227	12.7	9.65	2230
	x 62	23.74	7.04	.590	.430	131		x 92	603	179	15.0	10.9	2140
W24	x 68	23.73	8.96	.585	.415	154	W610	x 101	603	228	14.9	10.5	2530
	x 76	23.92	8.99	.680	.440	176		x 113	608	228	17.3	11.2	2880
	x 84	24.10	9.02	.770	.470	196		x 125	612	229	19.6	11.9	3220
	x 94	24.31	9.06	.875	.515	222		x 140	617	230	22.2	13.1	3630

Wide Flange Beams

Imperial Designation							Metric Designation						
		Depth Ins.	Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W24	x 104	24.06	12.75	.750	.500	258	W610	x 155	611	324	19.0	12.7	4220
	x 117	24.26	12.80	.850	.550	291		x 174	616	325	21.6	14.0	4780
	x 131	24.48	12.85	.960	.605	329		x 195	622	327	24.4	15.4	5400
	x 146	24.74	12.90	1.090	.650	371		x 217	628	328	27.7	16.5	6070
	x 162	25.00	12.95	1.220	.705	414		x 241	635	329	31.0	17.9	6780
W27	x 84	26.71	9.96	.640	.460	213	W690	x 125	678	253	16.3	11.7	3500
	x 94	26.92	9.99	.745	.490	243		x 140	684	254	18.9	12.4	3980
	x 102	27.09	10.02	.830	.515	267		x 152	688	254	21.1	13.1	4380
	x 114	27.29	10.07	.930	.570	299		x 170	693	256	23.6	14.5	4910
W27	x 146	27.38	13.96	.975	.605	411	W690	x 217	695	355	24.8	15.4	6740
	x 161	27.59	14.02	1.080	.660	455		x 240	701	356	27.4	16.8	7450
	x 178	27.81	14.09	1.190	.725	502		x 265	706	358	30.2	18.4	8220
W30	x 99	29.65	10.45	.670	.520	269	W760	x 147	753	265	17.0	13.2	4410
	x 108	29.83	10.48	.760	.545	299		x 161	758	266	19.3	13.8	4900
	x 116	30.01	10.49	.850	.565	329		x 173	762	267	21.6	14.4	5400
	x 124	30.17	10.52	.930	.585	355		x 185	766	267	23.6	14.9	5820
	x 132	30.31	10.55	1.00	.615	380		x 196	770	268	25.4	15.6	6240

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation							
		Depth Ins.	Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Width mm	Flange Thickness mm.	Web Thickness mm	Section Modulus 10.3mm3
W30	x 173	30.44	14.98	1.06	.655	539	W760	x 257	773	381	27.1	16.6	8840
	x 191	30.68	15.04	1.19	.710	598		x 284	779	382	30.1	18.0	9790
	x 211	30.94	15.10	1.31	.775	663		x 314	786	384	33.4	19.7	10900
W33	x 118	32.86	11.48	.740	.550	359	W840	x 176	835	292	18.8	14.0	5900
	x 130	33.09	11.51	.855	.580	406		x 193	840	292	21.7	14.7	6630
	x 141	33.30	11.54	.960	.605	448		x 210	846	293	24.4	15.4	7340
	x 152	33.49	11.56	1.06	.635	487		x 226	851	294	26.8	16.1	7990
W33	x 201	33.68	15.74	1.15	.715	684	W840	x 299	855	400	29.2	18.2	11200
	x 221	33.93	15.81	1.27	.775	757		x 329	862	401	32.4	19.7	12400
	x 241	34.18	15.86	1.40	.830	829		x 359	868	403	35.6	21.1	13600
W36	x 135	35.55	11.95	.790	.600	439	W920	x 201	903	304	20.1	15.2	7200
	x 150	35.85	11.98	.940	.625	504		x 223	911	304	23.9	15.9	8270
	x 160	36.01	12.00	1.02	.650	542		x 238	915	305	25.9	16.5	8880
	x 170	36.17	12.03	1.10	.680	580		x 253	919	306	27.9	17.3	9520
	x 182	36.33	12.07	1.18	.725	623		x 271	923	307	30.0	18.4	10200
	x 194	36.49	12.12	1.26	.765	664		x 289	927	308	32.0	19.4	10900
	x 210	36.69	12.18	1.36	.830	719		x 313	932	309	34.5	21.1	11800

WIDE FLANGE BEAMS

Imperial Designation							Metric Designation						
		Depth Ins.	Flange Width Ins.	Flange Thickness Ins.	Web Thickness Ins.	Section Modulus Ins.3			Depth mm	Flange Width mm	Flange Thickness mm	Web Thickness mm	Section Modulus 10.3mm3
W36	x 230	35.90	16.47	1.26	.760	837	W920	x 342	912	418	32.0	19.3	13700
	x 245	36.08	16.51	1.35	.800	895		x 365	916	419	34.3	20.3	14600
	x 260	36.26	16.55	1.44	.840	953		x 387	921	420	36.6	21.3	15600
	x 280	36.52	16.60	1.57	.885	1030		x 417	928	422	39.9	22.5	17000
	x 300	36.74	16.65	1.68	.945	1110		x 446	933	423	42.7	24.0	18200

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morton metals

Reinforcing

351 West Street South, Box 2090
Orillia, Ontario, Canada L3V 6R9
T 705.327.1300 1.800.461.0250
F 705.325.0567

ISO 9001:2000 QMI REGISTERED MANAGEMENT SYSTEM

REINFORCING PRODUCTS

BARS

metric Bar designation	pounds per lineal foot	kilograms per lineal meter	nominal area in.2	mm2
10M	.528	.785	.16	100
15M	1.055	1.750	.31	200
20M	1.583	2.355	.47	300
25M	2.638	3.925	.78	500
30M	3.693	5.495	1.09	700
35M	5.275	7.850	1.55	1000
45M	7.912	11.775	2.33	1500
55M	13.188	19.625	3.88	2500

WELDED WIRE MESH - available in sheets or rolls

imperial style	weight per 100 sq. ft.
6 x 6 x 10/10	21
6 x 6 x 9/9	25
6 x 6 x 6/6	42

INQUIRE IF YOUR SIZE IS NOT SHOWN

morton metals

Tubing and Pipe

351 West Street South, Box 2090
Orillia, Ontario, Canada L3V 6R9
T 705.327.1300 1.800.461.0250
F 705.325.0567

ISO 9001:2000 QMI REGISTERED MANAGEMENT SYSTEM

HOLLOW STRUCTURAL TUBING

ROUNDS

Outside Diameter	wall thickness	weight lbs./ft	outside diameter	wall thickness	weight lbs./ft.
1.050	.100	1.03	3.750	.100	3.90
	.125	1.24		.110	4.28
1.250	.100	1.23		.125	4.85
	.125	1.51		.134	5.18
	.134	1.60		.150	5.78
1.315	.100	1.35		.188	7.16
	.125	1.59		.210	7.95
1.660	.100	1.70		.250	9.36
	.125	2.05	4.00	.125	5.17
1.690	.100	1.70		.134	5.53
	.125	2.09		.150	6.17
1.875	.100	1.90		.188	7.67
	.125	2.34		.210	8.51
1.900	.100	1.93		.250	10.01
	.110	2.10		.313	12.34
	.125	2.40	4.500	.188	8.68
	.150	2.81		.210	9.63
	.188	3.45		.250	11.40
2.000	.100	2.03		.313	14.01
	.125	2.50		.375	16.54
	.150	2.96	5.000	.134	6.97
	.188	3.64		.150	7.78
2.375	.100	2.43		.188	9.67
	.125	3.01		.250	12.70
	.150	3.57		.313	15.69
	.188	4.40		.375	18.54
	.250	5.67	5.562	.188	10.80
2.500	.125	3.17		.250	14.20
	.150	3.77		.258	14.62
	.188	4.65		.313	17.60
	.250	6.02	6.000	.134	8.41
2.750	.125	3.50		.150	9.38
	.150	4.18		.188	11.68
	.188	5.15		.250	15.37
	.250	6.69		.313	19.03
3.000	.125	3.84		.375	22.55
	.134	4.10	6.625	.188	13.00
	.150	4.57		.250	17.00
	.188	5.65		.313	21.10
	.250	7.35		.375	25.10
3.500	.125	4.50	7.000	.188	13.69
	.150	5.37		.250	18.04
	.188	6.66		.313	22.37
	.250	7.35		.375	26.56
	.313	10.66			

HOLLOW STRUCTURAL TUBING

ROUNDS

outside diameter	wall thickness	weight lbs./ft	outside diameter	wall thickness	weight lbs./ft.
8.625	.188	16.94	12.750	.375	49.60
	.250	22.40		.438	57.70
	.313	27.80		.500	65.50
	.375	33.10	14.000	.250	36.80
	.438	38.40		.313	45.80
	.500	43.40		.375	54.70
10.750	.250	28.10		.438	63.50
	.313	34.90		.500	72.20
	.375	41.60	16.000	.250	42.10
	.438	48.30		.313	52.50
	.500	54.80		.375	62.70
12.750	.250	33.40		.438	72.90
	.313	41.60		.500	82.90

SQUARES

outside dimensions	wall thickness	weight lbs./ft/	outside dimensions	wall thickness	weight lbs./ft/
1 x 1	.083	1.04	3 x 3	.125	4.76
	.100	1.14		.150	5.62
	.125	1.35		.188	6.89
	.150	1.53		.210	7.59
1-1/4 x 1-1/4	.100	1.48		.250	8.81
	.125	1.78		.313	10.59
	.150	2.05	3-1/2x3-1/2	.150	6.64
1-1/2x1-1/2	.100	1.82		.188	8.17
	.125	2.21		.210	9.01
	.150	2.56		.250	10.51
	.188	3.35		.313	12.70
2 x 2	.100	2.58		.375	14.71
	.110	2.69	4 x 4	.125	6.46
	.125	3.00		.150	7.66
	.150	3.58		.188	9.45
	.188	4.33		.210	10.51
	.250	5.41		.250	12.21
2-1/2x2-1/2	.125	3.91		.313	14.83
	.150	4.60		.375	17.27
	.188	5.61	5 x 5	.188	12.00
	.210	6.16		.250	15.62
	.250	7.11		.313	19.08
				.375	22.37
				.438	25.50
				.500	27.70

HOLLOW STRUCTURAL TUBING

SQUARES

outside dimensions	wall thickness	weight lbs./ft.	outside dimensions	wall thickness	weight lbs./ft.
6 x 6	.188	14.56	8 x 8	.250	25.82
	.250	19.02		.313	31.84
	.313	23.33		.375	37.69
	.375	27.48		.500	48.85
	.500	35.24		.625	59.32
	.625	42.26	10 x 10	.250	32.63
7 x 7	.188	17.13		.313	40.35
	.250	22.42		.375	47.90
	.313	27.63		.500	62.46
	.375	32.58		.625	76.33
	.438	37.40	12 x 12	.250	39.43
	.500	42.05		.313	48.86
	.625	50.76		.375	58.10
				.438	67.50
				.500	76.00

RECTANGULAR

Outside dimensions	wall thickness	weight lbs./ft.	outside dimensions	wall thickness	weight lbs./ft.
2 x 1	.100	1.82	4 x 3	.150	6.64
	.125	2.21		.188	8.17
	.150	2.56		.210	8.76
2-1/2 x 1-1/2	.125	3.05		.250	10.51
	.188	4.32		.313	12.70
3 x 1-1/2	.125	3.48		.375	14.71
	.150	4.09	5 x 2	.150	6.64
	.188	4.96		.188	8.17
3 x 2	125	3.91		.210	8.76
	.150	4.60		.250	10.51
	.188	5.61		.313	12.70
	.210	6.16		.375	14.71
	.250	7.11	5 x 2-1/2	.150	7.15
	.313	8.43		.188	8.80
3-1/2x2-1/2	.150	5.62		.210	9.48
	.188	6.89		.250	11.30
	.250	8.81		.313	13.80
	.313	10.59		.375	16.00
4 x 2	.125	4.76	5 x 3	.125	6.46
	.150	5.64		.188	9.45
	.188	6.90		.250	12.20
	.210	7.32		.313	14.90
	.250	8.80		.375	17.30
	.313	10.60			
	.375	12.95			

HOLLOW STRUCTURAL TUBING

RECTANGULAR

outside dimensions	wall thickness	weight lbs./ft.	outside dimensions	wall thickness	weight lbs./ft.
6 x 2	.188	9.45	8 x 6	.188	17.13
	.250	12.20		.250	22.42
	.313	14.83		.313	27.63
	.375	17.27		.375	32.58
6 x 3	.125	7.31		.500	42.05
	.188	10.70		.625	50.76
	.250	13.91	8-1/2 x 2	.125	8.56
	.375	19.82		.188	12.60
6 x 4	.188	12.00		.250	16.50
	.250	15.62	9 x 5	.188	17.13
	.313	19.08		.250	22.42
	.375	22.37		.313	27.63
	.500	28.43		.375	32.58
7 x 3	.188	12.00	9 x 7	.188	19.63
	.250	15.60		.250	25.82
	.313	19.10		.313	31.84
	.375	24.92		.375	37.69
7 x 4	.188	13.30	10 x 4	.188	17.13
	.250	17.32		.250	22.42
	.313	21.18		.313	27.63
	.375	24.92	10 x 6	.250	25.82
7 x 5	.188	14.56		.313	31.84
	.250	19.02		.375	37.69
	.313	23.33		.500	48.85
	.375	27.48		.625	59.32
	.438	31.50	12 x 6	.188	21.96
	.500	35.24		.250	28.90
8 x 2	.188	11.90		.313	35.49
	.250	15.60		.375	41.90
	.313	18.80		.500	54.10
	.375	21.90	12 x 8	.250	32.63
8 x 4	.188	14.56		.313	40.35
	.250	19.02		.375	47.90
	.313	23.33		.438	55.18
	.500	35.24		.500	62.46
	.625	42.26			

NEED IT SAW CUT? WE CAN DO IT!

BLACK PIPE

STANDARD – schedule 40

Size Inches	diameter O.D.	diameter I.D.	thickness inches	weight per foot plain ends
1/8	.405	.269	.068	.24
1/4	.540	.364	.088	.42
3/8	.675	.493	.091	.56
1/2	.840	.622	.109	.85
3/4	1.050	.824	.113	1.13
1	1.315	1.049	.133	1.67
1-1/4	1.660	1.380	.140	2.27
1-1/2	1.900	1.610	.145	2.71
2	2.375	2.067	.154	3.65
2-1/2	2.875	2.469	.203	5.79
3	3.500	3.068	.216	7.57
3-1/2	4.000	3.548	.226	9.10
4	4.500	4.026	.237	10.79
4-1/2	5.000	4.506	.247	12.53
5	5.563	5.047	.258	14.61
6	6.625	6.065	.280	18.97
7	7.625	7.023	.301	23.54
8	8.625	8.071	.277	24.69
8	8.625	7.981	.322	28.55
9	9.625	8.941	.342	33.90
10	10.750	10.192	.279	31.20
10	10.750	10.136	.307	34.24
10	10.750	10.020	.365	40.48
11	11.750	11.000	.375	45.55
12	12.750	12.090	.330	43.77
12	12.750	12.000	.375	49.56

STANDARD PIPE IS SUPPLIED WITH PLAIN ENDS

May be supplied as threaded & coupled if specified at time of order

BLACK PIPE

EXTRA STRONG – schedule 80

Size Inches	diameter O.D.	diameter I.D.	thickness inches	weight per foot plain ends
1/8	.450	.215	.095	.31
1/4	.540	.302	.119	.53
3/8	.675	.423	.126	.73
1/2	.840	.546	.147	1.08
3/4	1.050	.742	.154	1.47
1	1.315	.957	.179	2.17
1-1/4	1.660	1.278	.191	2.99
1-1/2	1.900	1.500	.200	3.63
2	2.375	1.939	.218	5.02
2-1/2	2.875	2.323	.276	7.66
3	3.500	2.900	.300	10.25
3-1/2	4.000	3.364	.318	12.50
4	4.500	3.826	.337	14.98
4-1/2	5.000	4.290	.355	17.61
5	5.563	4.813	.375	20.77
6	6.625	5.761	.432	28.57
7	7.625	6.625	.500	38.04
8	8.625	7.625	.500	43.38
9	9.625	8.625	.500	48.72
10	10.750	9.750	.500	54.73
11	11.750	10.750	.500	60.07
12	12.750	11.750	.500	65.41

FAST & ACCURATE SAW CUTTING AVAILABLE ON ALL PRODUCTS

morton metals

Plate Sheet

351 West Street South, Box 2090
Orillia, Ontario, Canada L3V 6R9
T 705.327.1300 1.800.461.0250
F 705.325.0567

ISO 9001:2000 QMI REGISTERED MANAGEMENT SYSTEM

STEEL PLATE

Theoretical weight per square foot

Thickness in inches	weight per sq. ft. lbs.	Thickness in inches	weight per sq.ft.lbs.	Thickness in inches	weight pe sq.ft.lbs.
1/16	2.55	2	81.68	7	285.87
1/8	5.10	2-1/8	86.78	7-1/4	296.08
3/16	7.66	2-1/4	91.89	7-1/2	306.29
1/4	10.21	2-3/8	96.99	7-3/4	316.50
5/16	12.76	2-1/2	102.10		
3/8	15.31	2-5/8	107.20	8	326.71
7/16	17.87	2-3/4	112.31	8-1/4	336.92
1/2	20.42	2-7/8	117.41	8-1/2	347.13
9/16	22.97			8-3/4	357.34
5/8	25.52	3	122.52		
11/16	28.08	3-1/4	132.72	9	367.55
3/4	30.63	3-1/2	142.93	9-1/4	377.76
13/16	33.18	3-3/4	153.14	9-1/2	387.97
7/8	35.73			9-3/4	398.18
15/16	38.29	4	163.35		
		4-1/4	173.56	10	408.38
1	40.84	4-1/2	183.77	10-1/2	428.80
1-1/8	45.94	4-3/4	193.98		
1-1/4	51.05			11	449.24
1-3/8	56.15	5	204.19	11-1/2	469.66
1-1/2	61.26	5-1/4	214.40		
1-5/8	66.37	5-1/2	224.61	12	490.08
1-3/4	71.47	5-3/4	234.82	12-1/2	510.50
1-7/8	76.57				
		6	245.03	13	530.82
		6-1/4	255.24		
		6-1/2	265.45	14	571.76
		6-3/4	275.66		

CUT TO SIZE SERVICE AVAILABLE

FLOOR/CHECKER PLATE

Theoretical weight per square foot

Nominal Size	Thickness in inches	weight per sq.ft.lbs.
14 ga.	.075	3.75
1/8	.125	6.15
3/16	.188	8.70
1/4	.250	11.25
5/16	.313	13.80
3/8	.375	16.35
1/2	.500	21.45

HOT & COLD ROLLED SHEET

Theoretical weight per square foot

gauge no.	decimal equivalent	pounds per sq./ft.	gauge no.	decimal equivalent	pounds per sq./ft.
7	.179	7.500	19	.041	1.750
8	.164	6.875	20	.036	1.500
10	.134	5.625	21	.033	1.375
11	.119	5.000	22	.030	1.250
12	.104	4.375	23	.027	1.125
13	.089	3.750	24	.024	1.000
14	.074	3.125	25	.021	.875
15	.067	2.812	26	.018	.750
16	.059	2.500	27	.016	.688
17	.053	2.250	28	.015	.625
18	.018	2.000	30	.012	.500

GALVANIZED SHEET

Theoretical weight per square foot

gauge no.	decimal equivalent	pounds per sq./ft.	gauge no.	decimal equivalent	pounds per sq./ft.
8	.168	7.031	20	.039	1.656
9	.153	6.406	21	.036	1.531
10	.138	5.781	22	.033	1.406
11	.123	5.156	23	.030	1.281
12	.108	4.531	24	.027	1.156
13	.093	3.906	25	.024	1.031
14	.078	3.281	26	.021	.906
15	.071	2.969	27	.020	.844
16	.063	2.656	28	.018	.781
17	.057	2.406	29	.017	.719
18	.051	2.156	30	.015	.656
19	.045	1.906			

morton metals

Miscellaneous

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T 705.327.1300 1.800.461.0250
F 705.325.0567

ISO 9001:2000 QMI REGISTERED MANAGEMENT SYSTEM

THREADED ROD

ASTM – A-307 – NATIONAL COURSE – stock lengths of 10 feet

size inches	pounds per ft.	size inches	pounds per ft.
1/4	.167	5/8	1.04
5/16	.261	3/4	1.50
3/8	.376	1	2.68
1/2	.668		

SIZES NOT SHOWN AVAILABLE ON REQUEST
PLAIN OR GALVANIZED

WELDED WIRE PANELS

mesh size in inches	wire diameter	panel sizes available		
1 x 1	10 gauge	48 x 96	60 x 120	72 x 144
1-1/2x 1-1/2	10 gauge		48 x 96	
2 x 2	10 gauge	48 x 96	60 x 120	72 x 144
2 x 2	3/16 inch		48 x 96	
2 x 2	1/4 inch		48 x 96	
3 x 3	3/16 inch		48 x 96	
3 x 3	1/4 inch		48 x 96	
4 x 2	1/4 inch		48 x 96	
4 x 4	3/16 inch		48 x 96	
4 x 4	1/4 inch		48 x 96	
6 x 6	3/16 inch		48 x 96	

PANELS AVAILABLE PLAIN OR GALVANIZED

NEED PRIME PAINT??

= MORTON METALS STOCKS PRIMER IN BOTH RED & BLACK =

AVAILABLE IN 4 & 20 LITRE PAILS

EXPANDED MESH

STANDARD

style no. (use this number for ordering)	weight per 100 sq.ft.	centre to centre of bridges A swd	B lwd	size of openings C swd	D lwd	strand E thick.	F width	% open area
3/16-22	63	.200	.41	.109	.281	.030	.049	45-52
3/16-20	90	.200	.41	.094	.281	.036	.063	40-44
1/4-20	86	.250	1.0	.167	.747	.036	.072	46-58
1/4-18	114	.250	1.0	.155	.703	.048	.072	40-50
5/16-22	42	.333	1.0	.219	.781	.030	.056	66-74
5/16-20	57	.333	1.0	.250	.750	.036	.063	60-68
5/16-18	104	.333	1.0	.188	.688	.048	.087	48-54
1/2-20	43	.500	1.2	.438	.938	.036	.072	80-85
1/2-18	70	.500	1.2	.438	.938	.048	.082	72-78
1/2-16	86	.500	1.2	.375	.906	.060	.086	64-69
1/2-13	147	.500	1.2	.335	.826	.090	.098	52-58
3/4-18	44	.923	2.0	.870	1.69	.048	.102	84-88
3/4-16	54	.923	2.0	.840	1.69	.060	.099	84-88
3/4-13	80	.923	2.0	.810	1.64	.090	.098	76-80
¾-10(13ga.)	120	.923	2.0	.780	1.60	.090	.147	72-80
¾-9 (10ga.)	180	.923	2.0	.740	1.50	.135	.149	65-70
1 - 16	45	1.00	2.0	.920	1.65	.060	.090	82-86
1 - 14	76	1.00	2.0	.875	1.75	.075	.122	75-79
1 - 12	105	1.00	2.0	.750	1.53	.105	.120	71-75
1 - 10	170	1.00	2.3	.750	1.69	.135	.151	70-74
1 - 10H	200	1.00	2.3	.719	1.69	.135	.178	67-71
1-1/2-16	40	1.33	3.0	1.25	2.63	.060	.107	88-91
1-1/2-14	33	1.41	3.0	1.32	2.63	.075	.075	90-93
1-1/2-13	60	1.33	3.0	1.22	2.55	.090	.107	85-88
1-1/2-12	74	1.41	3.0	1.28	2.63	.105	.097	81-85
1-1/2-10L(13)	79	1.33	3.0	1.20	2.52	.090	.140	83-86
1-1/2-10	170	1.41	3.0	1.13	2.47	.135	.213	72-76
1-1/2-10H	200	1.41	3.0	1.00	2.38	.135	.251	70-74
1-1/2-9(10ga)	120	1.33	3.0	1.16	2.45	.135	.142	77-80

ALL WEIGHTS & DIMENSIONS SHOWN ARE APPROXIMATE

STOCK SIZES ARE 4’ (swd) X 8’ (lwd)

EXPANDED MESH

FLATTENED

style no.	weight	centre to centre		size of openings		strand	dim.	
(use this	per							%
number for	100 sq.ft.	A	B	C	D	E	F	open
ordering		swd	lwd	swd	lwd	swd	lwd	area
3/16-22F	61	0.188	0.406	0.078	0.313	0.027	0.063	44-51
3/16-20F	88	0.188	0.406	0.078	0.313	0.032	0.075	39-43
1/4 -20F	83	0.250	1.02	0.094	0.688	0.029	0.086	30-45
1/4 -18F	111	0.250	1.03	0.094	0.688	0.042	0.104	35-40
5/16-22F	39	0.333	1.02	0.203	0.813	0.027	0.075	62-68
5/16-20F	54	0.333	1.03	0.203	0.813	0.033	0.075	56-62
5/16-18F	95	0.333	1.03	0.172	0.844	0.042	0.104	43-47
1/2 -20F	40	0.500	1.25	0.340	1.000	0.030	0.071	73-78
1/2 -18F	66	0.500	1.25	0.313	0.969	0.042	0.094	57-61
1/2 -16F	82	0.500	1.25	0.300	1.000	0.050	0.101	59-65
1/2 -13F	140	0.500	1.24	0.250	1.000	0.070	0.110	50-56
3/4 -18F	40	0.923	2.10	0.690	1.75	0.042	0.112	74-78
3/4 -16F	52	0.923	2.10	0.690	1.75	0.054	0.094	74-78
3/4 -13F	76	0.923	2.08	0.690	1.78	0.070	0.104	72-77
3/4-10F(13ga)	118	0.923	2.10	0.637	1.755	0.070	0.16	66-70
3/4 - 9F	171	0.923	2.12	0.560	1.69	0.120	0.160	63-69
1 -16F	41	1.000	2.51	0.780	2.06	0.048	0.100	75-80
1 -14F	73	1.000	2.16	0.750	1.81	0.067	0.141	70-75
1 -12F	101	1.000	2.25	0.690	1.75	0.088	0.156	66-71
1 -10F	165	1.000	2.50	0.625	1.88	0.125	0.188	58-64
1-1/2-16F	38	1.330	3.10	1.060	2.75	0.048	0.120	79-85
1-1/2-14F	46	1.33	3.10	1.060	2.75	0.061	0.120	79-85
1-1/2-13F	57	1.33	3.10	1.060	2.75	0.070	0.130	77-82
1-1/2-12F	56	1.41	3.01	1.220	2.75	0.088	0.110	78-82
1-1/2-10F	165	1.41	3.23	1.000	2.49	0.125	0.233	61-66
1-1/2-9F(10ga)	114	1.33	3.20	1.000	2.56	0.110	0.170	72-78

ALL WEIGHTS & DIMENSIONS SHOWN ARE APPROXIMATE

NEED A SIZE OR PRODUCT NOT SHOWN?

MORTON METALS CAN SOURCE THAT SPECIAL ITEM OR SIZE

SUCH AS:

FLOOR DECKING

ROOF DECKING

BAR GRATING

GRIP STRUT

GRIP SPAN

UNISTRUT

PLUS:

ALUMINUM

STAINLESS

PLASTICS

CRANE RAIL

and many more – just give us a call

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