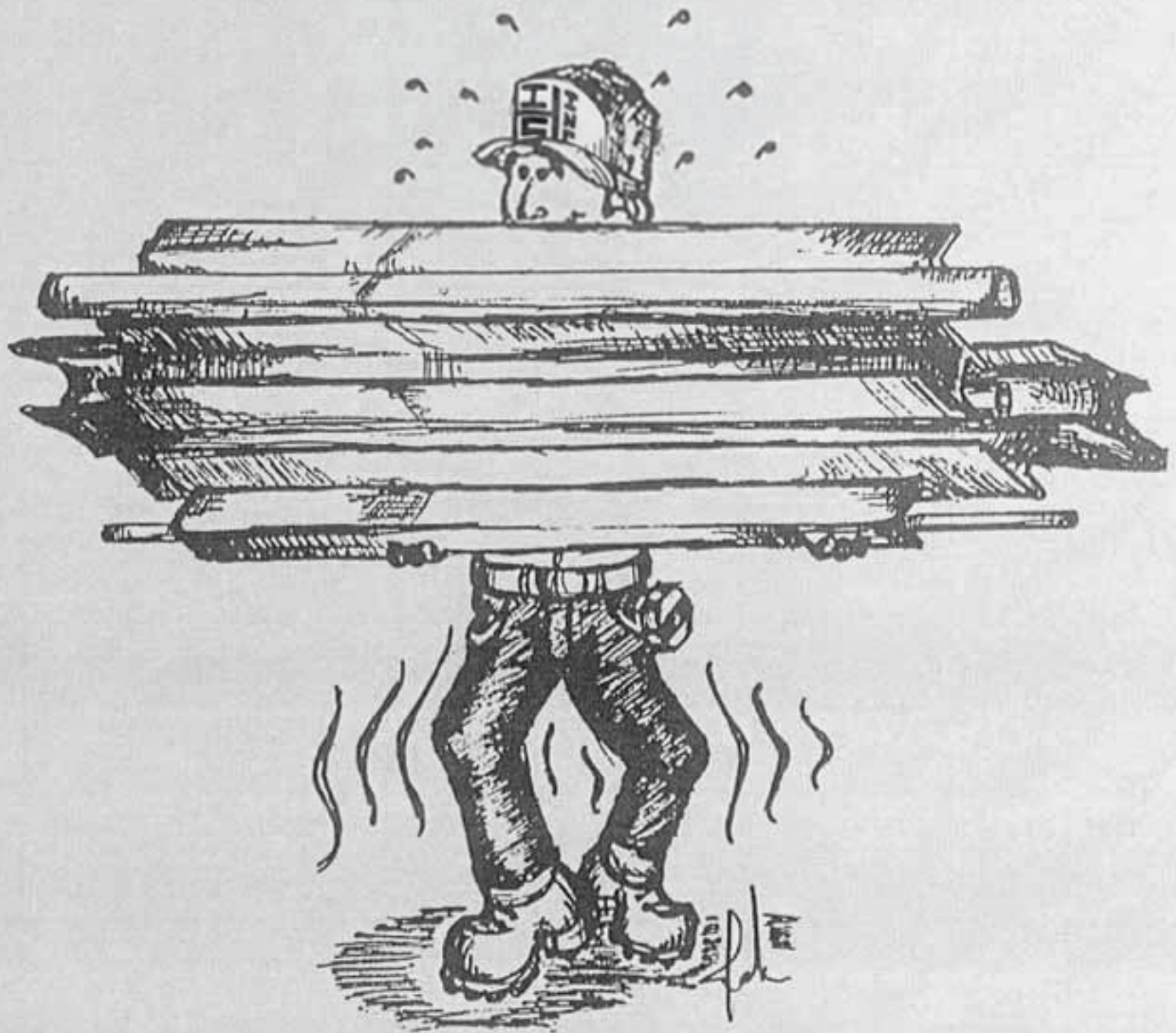




HARRISON INDUSTRIAL SERVICES INC.

I N D U S T R I A L P R O D U C T S D I V I S I O N

3377 DEER VALLEY RD., #163 ANTIOCH, CALIFORNIA 94531 • PHONE (888) 212-6095



*"We Work Hard
To Deliver!"*

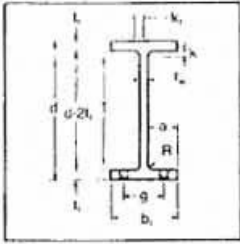
S T E E L C A T A L O G



HARRISON INDUSTRIAL SERVICES INC.
3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com

W Shapes/Wide Flange Beams

Stock lengths: 20/30/40/50/60; ASTM A-36



Decimal dimensions for d , b_f , t_f and t_w are in accordance with those listed in ASTM A6-77b. The AISC criteria that governs the method for determining the Approximate Dimensions for Detailing, as listed herein, is as follows:

d , depth of section, rounded to the nearest $1/8$ "

b_f , width of flange, rounded to the nearest $1/8$ "

t_f , t_w , flange and web thicknesses, rounded to the nearest $1/16$ "

$t_w/2$, one-half the fractional value of the web thickness, rounded up to the nearest $1/16$ "

$d-2t_f$, decimal value of the clear distance between flanges, rounded to the nearest $1/16$ "

a , projection of the flange beyond the face of the web, = $1/2$ (decimal flange width minus decimal web thickness), rounded to the nearest $1/8$ "

T , clear distance on web between fillets* = (decimal depth of shape minus ASTM A6 maximum allowable under tolerance) minus 2 (decimal flange thickness plus decimal fillet radius*), rounded down to the nearest $1/8$ "

k , distance from the outside of the flange to the toe of the fillet* on the web, = $1/2$ (fractional depth of shape minus fractional value of T), automatically rounded up to the nearest $1/16$ " because of the rounding of d and T

k_1 , distance from the center of the web to the toe of the fillet* on the flange, = ($1/2$ decimal web thickness plus decimal fillet radius*), rounded up to the nearest $1/16$ "

*The fillet radius used in calculating the detailing clearance dimensions T , k and k_1 is the largest theoretical radius used for the given section by any U.S. producer, based on a 1977 AISI survey.

The rounding off of decimal dimensions to fractions can lead to an accumulation of differences when these fractions are added. For example, the fractional value of $d-2t_f$ plus two times the fractional value of t_f may not equal the fractional value of d . Similarly, the fractional values $2a + t_w$ may not equal b_f , nor may $2(t_w/2)$ equal t_w .

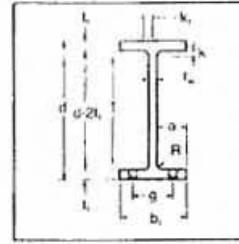
Section Number	Weight per Foot	Depth of Section d	Flange		Web Thickness t_w	Half Web Thickness $t_w/2$	$d-2t_f$	a	T	k	k_1	R	Usual Flange Gage g
			Width b_f	Thickness t_f									
W4	13	4 1/8	4	3/8	1/4	1/8	3 1/2	1 7/8	2 3/4	1 1/16	7/16	0.25	2 1/4
W5	16	5	5	1/2	1/4	1/8	4 1/16	2 3/8	3 1/2	3/4	7/16	0.30	2 3/4
	19	5 1/8	5	7/16	1/4	1/8	4 7/16	2 3/8	3 1/2	1 1/16	7/16	0.30	2 3/4
W6	9	5 7/8	4	3/16	3/16	1/8	5 1/2	1 7/8	4 3/4	9/16	3/8	0.25	2 1/4
	12	6	4	1/4	1/4	1/8	5 1/2	1 7/8	4 3/4	3/8	3/8	0.25	2 1/4
	16	6 1/4	4	3/8	1/4	1/8	5 1/2	1 7/8	4 3/4	3/4	7/16	0.25	2 1/4
W6	15	6	6	1/4	1/4	1/8	5 1/2	2 7/8	4 3/4	5/8	3/8	0.25	3 1/2
	20	6 1/4	6	5/16	1/4	1/8	5 1/2	2 7/8	4 3/4	1/2	1/4	0.25	3 1/2
	25	6 3/8	6 1/4	7/16	3/16	3/16	5 1/2	2 7/8	4 3/4	1 1/16	3/16	0.25	3 1/2
W8	10	7 7/8	4	3/16	3/16	1/8	7 1/2	1 7/8	6 3/8	5/8	7/16	0.30	2 1/4
	13	8	4	1/4	1/4	1/8	7 1/2	1 7/8	6 3/8	1 1/16	7/16	0.30	2 1/4
	15	8 1/8	4	3/16	1/4	1/8	7 1/2	1 7/8	6 3/8	3/4	1/2	0.30	2 1/4
W8	18	8 1/8	5 1/4	3/16	1/4	1/8	7 1/2	2 1/2	6 3/8	3/4	1/16	0.30	2 3/4
	21	8 1/4	5 1/4	1/8	1/4	1/8	7 1/2	2 1/2	6 3/8	1 1/16	1/2	0.30	2 3/4



HARRISON INDUSTRIAL SERVICES INC.
3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com

W Shapes/Wide Flange Beams

Stock lengths: 20/30/40/50/60; ASTM A-36



Decimal dimensions for d , b_f , t_f and t_w are in accordance with those listed in ASTM A6-77b. The AISC criteria that governs the method for determining the Approximate Dimensions for Detailing, as listed herein, is as follows:

d , depth of section, rounded to the nearest $1/8$ "

b_f , width of flange, rounded to the nearest $1/8$ "

t_f , t_w , flange and web thicknesses, rounded to the nearest $1/16$ "

$t_w/2$, one-half the fractional value of the web thickness, rounded up to the nearest $1/16$ "

$d-2t_f$, decimal value of the clear distance between flanges, rounded to the nearest $1/16$ "

a , projection of the flange beyond the face of the web, = $1/2$ (decimal flange width minus decimal web thickness), rounded to the nearest $1/8$ "

T , clear distance on web between fillets* = (decimal depth of shape minus ASTM A6 maximum allowable under tolerance) minus 2 (decimal flange thickness plus decimal fillet radius*), rounded down to the nearest $1/8$ "

k , distance from the outside of the flange to the toe of the fillet* on the web, = $1/2$ (fractional depth of shape minus fractional value of T), automatically rounded up to the nearest $1/16$ " because of the rounding of d and T

k_1 , distance from the center of the web to the toe of the fillet* on the flange, = ($1/2$ decimal web thickness plus decimal fillet radius*), rounded up to the nearest $1/16$ "

*The fillet radius used in calculating the detailing clearance dimensions T , k and k_1 is the largest theoretical radius used for the given section by any U.S. producer, based on a 1977 AISI survey.

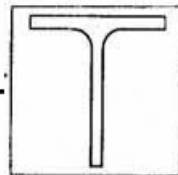
The rounding off of decimal dimensions to fractions can lead to an accumulation of differences when these fractions are added. For example, the fractional value of $d-2t_f$ plus two times the fractional value of t_f may not equal the fractional value of d . Similarly, the fractional values $2a + t_w$ may not equal b_f , nor may $2(t_w/2)$ equal t_w .

Section Number	Weight per Foot	Depth of Section d	Flange		Web Thickness t_w	Half Web Thickness $t_w/2$	$d-2t_f$	a	T	k	k_1	R	Usual Flange Gage g
			Width b_f	Thickness t_f									
W4	13	4 1/8	4	3/8	1/4	1/8	3 1/2	1 7/8	2 3/4	1 1/16	7/16	0.25	2 1/4
W5	16	5	5	1/2	1/4	1/8	4 1/16	2 3/8	3 1/2	3/4	7/16	0.30	2 3/4
	19	5 1/8	5	7/16	1/4	1/8	4 7/16	2 3/8	3 1/2	1 1/16	7/16	0.30	2 3/4
W6	9	5 7/8	4	3/16	3/16	1/8	5 1/2	1 7/8	4 3/4	9/16	3/8	0.25	2 1/4
	12	6	4	1/4	1/4	1/8	5 1/2	1 7/8	4 3/4	3/8	3/8	0.25	2 1/4
	16	6 1/4	4	3/8	1/4	1/8	5 1/2	1 7/8	4 3/4	3/4	7/16	0.25	2 1/4
W6	15	6	6	1/4	1/4	1/8	5 1/2	2 7/8	4 3/4	5/8	3/8	0.25	3 1/2
	20	6 1/4	6	5/16	1/4	1/8	5 1/2	2 7/8	4 3/4	1/2	1/4	0.25	3 1/2
	25	6 3/8	6 1/4	7/16	3/16	3/16	5 1/2	2 7/8	4 3/4	1 1/16	3/16	0.25	3 1/2
W8	10	7 7/8	4	3/16	3/16	1/8	7 1/2	1 7/8	6 3/8	5/8	7/16	0.30	2 1/4
	13	8	4	1/4	1/4	1/8	7 1/2	1 7/8	6 3/8	1 1/16	7/16	0.30	2 1/4
	15	8 1/8	4	3/16	1/4	1/8	7 1/2	1 7/8	6 3/8	3/4	1/2	0.30	2 1/4
W8	18	8 1/8	5 1/4	3/16	1/4	1/8	7 1/2	2 1/2	6 3/8	3/4	1/16	0.30	2 3/4
	21	8 1/4	5 1/4	1/8	1/4	1/8	7 1/2	2 1/2	6 3/8	1 1/16	1/2	0.30	2 3/4



HARRISON INDUSTRIAL SERVICES INC.

3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com



SECTION
STEEL

PAGE
7

WT Shapes/Structural Tees

Cut from wide flange shapes.

WT 2x6.5	WT 5x16.5	WT 6x85	WT 7x155.5	WT 9x48.5	WT 13.5x73
WT 2.5x8	WT 5x19.5	WT 6x95	WT 7x171	WT 9x53	WT 13.5x80.5
WT 2.5x9.5	WT 5x22.5	WT 6x105	WT 7x185	WT 9x59.5	WT 13.5x89
WT 3x4.5	WT 5x24.5	WT 6x115	WT 7x199	WT 10.5x22	WT 15x49.5
WT 3x6	WT 5x27	WT 6x126	WT 7x213	WT 10.5x25	WT 15x54
WT 3x8	WT 5x30	WT 6x139.5	WT 7x227.5	WT 10.5x28.5	WT 16x58
WT 3x7.5	WT 5x34	WT 6x152.5	WT 7x250	WT 10.5x31	WT 15x62
WT 3x10	WT 5x38.5	WT 6x168	WT 7x275	WT 10.5x34	WT 15x66
WT 3x12.5	WT 5x44	WT 7x11	WT 7x302.5	WT 10.5x36.5	WT 15x86.5
WT 4x5	WT 5x56	WT 7x13	WT 7x332.5	WT 10.5x41.5	WT 15x95.5
WT 4x6.5	WT 6x7	WT 7x15	WT 7x365	WT 10.5x46.5	WT 15x105.5
WT 4x7.5	WT 6x8	WT 7x17	WT 8x13	WT 10.5x50.5	WT 16.5x59
WT 4x9	WT 6x9.5	WT 7x19	WT 8x15.5	WT 10.5x55.5	WT 16.5x65
WT 4x10.5	WT 6x11	WT 7x21.5	WT 8x18	WT 10.5x61	WT 16.5x70.5
WT 4x12	WT 6x13	WT 7x24	WT 8x20	WT 10.5x66	WT 16.5x76
WT 4x14	WT 6x15	WT 7x26.5	WT 8x22.5	WT 10.5x73.5	WT 16.5x100.5
WT 4x15.5	WT 6x17.5	WT 7x30.5	WT 8x25	WT 12x27.5	WT 16.5x110.5
WT 4x17.5	WT 6x20	WT 7x34	WT 8x28.5	WT 12x31	WT 16.5x120.5
WT 4x20	WT 6x22.5	WT 7x37	WT 8x33.5	WT 12x34	WT 18x67.5
WT 4x24	WT 6x25	WT 7x41	WT 8x38.5	WT 12x38	WT 18x75
WT 4x29	WT 6x26.5	WT 7x45	WT 8x44.5	WT 12x42	WT 18x80
WT 4x33.5	WT 6x29	WT 7x49.5	WT 8x50	WT 12x47	WT 18x85
WT 5x6	WT 6x32.5	WT 7x54.5	WT 9x17.5	WT 12x52	WT 18x91
WT 5x7.5	WT 6x36	WT 7x60	WT 9x20	WT 12x58.5	WT 18x97
WT 5x8.5	WT 6x39.5	WT 7x66	WT 9x23	WT 12x65.5	WT 18x105
WT 5x9.5	WT 6x43.5	WT 7x72.5	WT 9x25	WT 12x73	WT 18x115
WT 5x11	WT 6x48	WT 7x79.5	WT 9x27.5	WT 12x81	WT 18x122.5
WT 5x13	WT 6x53	WT 7x88	WT 9x30	WT 13.5x42	WT 18x130
WT 5x15	WT 6x58	WT 7x96.5	WT 9x32.5	WT 13.5x47	WT 18x140
	WT 6x60	WT 7x105.5	WT 9x35.5	WT 13.5x51	WT 18x150
	WT 6x68	WT 7x116.5	WT 9x38	WT 13.5x57	
	WT 6x76	WT 7x128.5	WT 9x43		
		WT 7x141.5			



HARRISON INDUSTRIAL SERVICES INC.

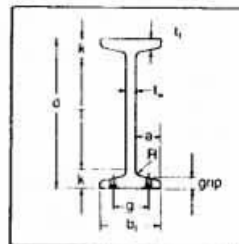
3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com

SECTION
STEEL

PAGE
8

S Shapes/Standard Beams

Stock lengths: 20/30/40/60, ASTM A-36



The AISC criteria that governs the method of determining the Approximate Dimensions for Detailing S, C and MC shapes is as follows:

- d**, depth of section, rounded to the nearest 1/8"
- b_f**, width of flange, rounded to the nearest 1/8"
- t_f**, average flange thickness, rounded to the nearest 1/16"
- t_w**, web thickness, rounded to the nearest 1/16"
- t_w/2**, one half the decimal thickness of the web, rounded to the nearest 1/16" (note that this derivation and rounding differs from that of W and HP shapes)
- a**, projection of the flange beyond the face of the web = 1/2 (decimal flange width minus decimal web thickness), rounded to the nearest 1/8"
- T**, clear distance on web between fillets, = (decimal depth of shape

minus ASTM A6 maximum under tolerance) minus 2 (decimal flange thickness at heel plus decimal fillet radius x tangent 1/2 (90° - 0)), where 0 is the flange slope, rounded down to the nearest 1/8"

k, distance from the outside of the flange to the fillet on the web, = 1/2 (fractional depth of the shape minus fractional value of T), which will automatically be rounded up to the nearest 1/16" because of the rounding of T

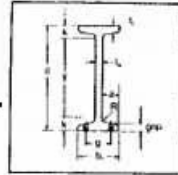
Except for k, fractional dimensions such as "a" are derived by first using the theoretical decimal dimensions to calculate their value, then rounding the results to a fractional value. The rounding off of decimal dimensions to fractions can lead to an accumulation of differences when these fractions are added. For example, S shapes fractional values of 2_a + t_w may not equal their fractional value of b.

Section Number	Weight per Foot	Depth of Section	Flange		Web Thickness	Half Web Thickness	a	T	k	R	Grip	Max Flange Fastener	Usual Flange Gage
			Width	Thickness									
	lb.	in.	b _f	t _f	t _w	t _w /2	in.	in.	in.	in.	in.	in.	in.
S 3 x 5.7	3	2 3/8	1/4	3/16	3/16	1/16	1 3/4	5/8	.27	1/4	—	—	
x 7.5	3	2 1/2	1/4	3/8	3/8	1/16	1 3/4	5/8	.27	1/4	—	—	
S 4 x 7.7	4	2 5/8	5/16	3/16	3/16	1/8	2 5/8	1 1/16	.29	3/16	—	—	
x 9.5	4	2 3/4	5/16	3/16	3/16	1/8	2 5/8	1 1/16	.29	5/16	—	—	
S 5 x 10	5	3	5/16	3/16	3/16	1/8	3 1/2	3/4	.31	3/16	—	—	
x 14.75	5	3 1/4	5/16	1/2	1/4	1 3/8	3 1/2	3/4	.31	5/16	—	—	
S 6 x 12.5	6	3 5/8	3/8	3/8	1/4	1 1/2	4 3/8	1 1/16	.33	5/16	—	—	
x 17.25	6	3 5/8	3/8	3/8	1/4	1 1/2	4 3/8	1 1/16	.33	3/8	5/8	2	
S 7 x 15.3	7	3 7/8	3/8	3/8	1/4	1 3/4	5 1/4	7/8	.35	3/8	5/8	2 1/4	
x 20	7	3 7/8	3/8	3/8	1/4	1 3/4	5 1/4	7/8	.35	3/8	5/8	2 1/4	
S 8 x 18.4	8	4	7/16	1/4	1/8	1 7/8	6	1	.37	7/16	3/4	2 1/4	
x 23	8	4 1/8	7/16	7/16	1/4	1 7/8	6	1	.37	7/16	3/4	2 1/4	
S 10 x 25.4	10	4 5/8	1/2	5/16	1/8	2 1/8	7 3/4	1 1/8	.41	1/2	3/4	2 1/4	
x 35	10	5	1/2	5/8	5/16	2 1/8	7 3/4	1 1/8	.41	1/2	3/4	2 1/4	



HARRISON INDUSTRIAL SERVICES INC.

3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095 or 1-925-778-3994
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com



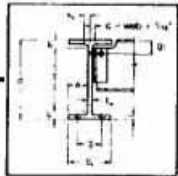
SECTION
STEEL

PAGE
9



HARRISON INDUSTRIAL SERVICES INC.

3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095 or 1-925-778-3994
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com



SECTION
STEEL

PAGE
10

M Shapes/Misc. and Juniors

Stock lengths: 20/30/40/60; ASTM A-36

Approximate Dimensions for Detailing

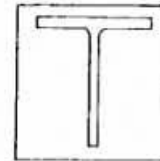
Section Number	Weight per Foot	Depth of Section d	Flange		Web Thickness t _w	Half Web Thickness t _w /2	a	T	k	R	Grip	Max Flange Fastener	Usual Flange Gage g
			Width b _f	Thick-ness t _f									
S12	x 31.8	12	5	9/16	3/8	3/16	2 3/8	9 5/8	1 3/16	.45	1/2	3/4	3
	x 35	12	5 1/4	9/16	7/16	3/16	2 3/8	9 5/8	1 3/16	.45	1/2	3/4	3
S12	x 40.8	12	5 1/4	11/16	7/16	1/4	2 3/8	9 5/8	1 7/16	.56	5/8	3/4	3
	x 50	12	5 1/2	11/16	11/16	3/16	2 3/8	9 5/8	1 7/16	.56	1 1/16	3/4	3
S15	x 42.9	15	5 1/2	5/8	7/16	3/16	2 1/2	12 1/4	1 3/8	.51	9/16	3/4	3 1/2
	x 50	15	5 5/8	5/8	9/16	1/4	2 1/2	12 1/4	1 3/8	.51	9/16	3/4	3 1/2
S18	x 54.7	18	6	11/16	7/16	1/4	2 3/4	15	1 1/2	.56	1 1/16	7/8	3 1/2
	x 70	18	6 1/4	11/16	11/16	3/8	2 3/4	15	1 1/2	.56	1 1/16	7/8	3 1/2
S20	x 66	20	6 1/4	13/16	1/2	1/4	2 7/8	16 3/4	1 3/4	.60	13/16	7/8	3 1/2
	x 75	20	6 3/8	13/16	5/8	3/16	2 7/8	16 3/4	1 3/4	.60	13/16	7/8	3 1/2
S20	x 86	20 1/4	7	15/16	5/8	3/16	3 1/4	16 3/4	1 7/8	.60	15/16	1	4
	x 96	20 1/4	7 1/4	15/16	13/16	3/8	3 1/4	16 3/4	1 7/8	.60	15/16	1	4
S24	x 80	24	7	7/8	1/2	1/4	3 1/4	20 1/2	1 3/4	.60	7/8	1	4
	x 90	24	7 1/8	7/8	5/8	3/16	3 1/4	20 1/2	1 3/4	.60	7/8	1	4
	x 100	24	7 1/4	7/8	3/4	3/8	3 1/4	20 1/2	1 3/4	.60	7/8	1	4
S24	x 106	24 1/2	7 7/8	1 1/8	5/8	3/16	3 5/8	20	2	.60	1 1/8	1	4
	x 121	24 1/2	8	1 1/8	13/16	3/4	3 5/8	20	2	.60	1 1/8	1	4

Stock lengths: 20/30/40/60; ASTM A-36

Approximate Dimensions for Detailing

Designation	Depth d	Flange		Web Thickness t _w	t _w /2	Distance					Grip	Max. Flange Fastener	Usual Flange Gage g	
		Width b _f	Thick-ness t _f			a	T	k	k ₁	g ₁				c
M 4 x 13	4	4	3/8	1/4	1/8	1 7/8	2 3/8	13/16	7/16	2	3/16	3/8	3/4	2 1/4
M 5 x 18.9	5	5	7/16	3/16	3/16	2 3/8	3 1/4	7/8	1/2	2 1/2	1/4	7/16	7/8	2 1/4
M 6 x 4.4	6	6	1 1/8	3/16	1/8	1 1/8	5 1/4	3/8	1/4	2	1/8	3/16	—	—
M 6 x 20	6	6	3/8	1/4	1/8	2 3/8	4 3/8	13/16	7/16	2 1/4	3/16	3/8	7/8	3 1/2
M 7 x 5.5	7	7	2 1/4	3/16	1/8	1 1/8	1	6 1/8	7/16	1/4	2	1/8	3/16	—
M 8 x 6.5	8	8	2 1/4	3/16	1/8	1 1/8	1 1/8	7	1/2	1/4	2	1/8	3/16	—
M10 x 9	10	10	2 3/4	3/16	3/16	1 1/8	1 1/4	9	1/2	3/16	2	1/8	3/16	—
M12 x 11.8	12	12	3 1/8	1/4	3/16	1 1/8	1 1/2	10 7/8	3/16	3/8	2 1/4	1/8	1/4	—
M14 x 17.2	14	14	4	3/4	3/16	1/8	1 7/8	12 3/4	3/8	3/8	2 1/4	3/16	1/4	3/4

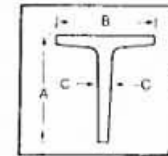
MT Shapes



MT 2 x 6.5
MT 2.5 x 9.45
MT 3 x 2.2
MT 3 x 10
MT 3.5 x 2.75
MT 4 x 3.25
MT 5 x 4.5
MT 6 x 5.9
MT 7 x 8.6

Hot Rolled Bar Size Tees

M-1015 A-36 STOCK LENGTHS 20/30/40



a	b	c	weight per foot	
3/4	x	3/4	x 1/8	.610
1	x	1	x 1/8	.850
1	x	1	x 3/16	1.200
1 1/4	x	1 1/4	x 1/8	1.090
1 1/4	x	1 1/4	x 3/16	1.550
1 1/2	x	1 1/2	x 3/16	1.940
1 1/2	x	1 1/2	x 1/4	2.430
2	x	2	x 3/16	2.450
2	x	2	x 1/4	3.560
2 1/2	x	2 1/2	x 1/4	4.600
2 1/2	x	2 1/2	x 3/16	5.500
2 1/2	x	2 1/2	x 3/8	6.400

ST Shapes



ST 1.5 x 2.85	ST 4 x 9.2	ST 9 x 27.35
ST 1.5 x 3.75	ST 4 x 11.5	ST 9 x 35
ST 2 x 3.85	ST 5 x 12.7	ST 10 x 32.7
ST 2 x 4.75	ST 5 x 17.5	ST 10 x 37.5
ST 2.5 x 5	ST 6 x 15.9	ST 10 x 42.5
ST 2.5 x 7.375	ST 6 x 17.5	ST 10 x 47.5
ST 3 x 6.25	ST 6 x 20.4	ST 12 x 39.95
ST 3 x 8.625	ST 6 x 25	ST 12 x 45
ST 3.5 x 7.65	ST 7.5 x 21.45	ST 12 x 50
ST 3.5 x 10	ST 7.5 x 25	ST 12 x 52.95
		ST 12 x 60



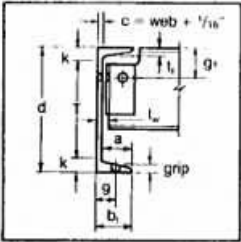
HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEEL

PAGE
11

C Shapes/Standard Channel

Stock lengths: 20/30/40/60; ASTM A-36



The AISC criteria that governs the method of determining the Approximate Dimensions for Detailing S, C and MC shapes is as follows:

d, depth of section, rounded to the nearest 1/8"

b_f, width of flange, rounded to the nearest 1/8"

t_f, average flange thickness, rounded to the nearest 1/16"

t_w, web thickness, rounded to the nearest 1/16"

t_w/2, one half the decimal thickness of the web, rounded to the nearest 1/16" (note that this derivation and rounding differs from that of W and HP shapes)

a, projection of the flange beyond the face of the web = 1/2 (decimal flange width minus decimal web thickness), rounded to the nearest 1/8"

T, clear distance on web between fillets, = (decimal depth of shape

minus ASTM A6 maximum under tolerance) minus 2 (decimal flange thickness at heel plus decimal fillet radius x tangent 1/2 (90° - θ)), where θ is the flange slope, rounded down to the nearest 1/8"

k, distance from the outside of the flange to the fillet on the web, = 1/2 (fractional depth of the shape minus fractional value of T), which will automatically be rounded up to the nearest 1/16" because of the rounding of T

Except for k, fractional dimensions such as "a" are derived by first using the theoretical decimal dimensions to calculate their value, then rounding the results to a fractional value. The rounding off of decimal dimensions to fractions can lead to an accumulation of differences when these fractions are added. For example, S shapes fractional values of 2_a + t_w may not equal their fractional value of b.

Approximate Dimensions for Detailing

Designation	Depth of Section d	Flange		Web Thickness t _w	t _w /2	Distance					Grip	Max. Flange Fastener	Usual Flange Gauge g	
		Width b _f	Thick-ness t _f			a	T	k	g ₁	c				
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
C 3 × 4.1	3	1 3/8	1/4	3/16	1/16	1 1/4	1 5/8	1 1/16	—	1/4	1/4	—	—	—
× 5	3	1 1/2	1/4	1/4	1/8	1 1/4	1 5/8	1 1/16	—	3/16	1/4	—	—	—
× 6	3	1 3/8	1/4	3/8	1/16	1 1/4	1 5/8	1 1/16	—	1/16	3/16	—	—	—
C 4 × 5.4	4	1 5/8	3/16	3/16	1/16	1 3/8	2 5/8	1 1/16	2	1/4	1/4	—	—	—
× 6.25	4	1 1 1/16	3/16	1/4	1/8	1 3/8	2 5/8	1 1/16	2	3/16	3/16	—	—	—
× 7.25	4	1 3/4	3/16	3/16	3/16	1 3/8	2 5/8	1 1/16	2	3/8	5/16	5/8	1	—
C 5 × 6.7	5	1 3/4	3/16	3/16	1/8	1 1/2	3 1/2	3/4	2 1/4	1/4	3/16	—	—	—
× 9	5	1 7/8	3/16	3/16	3/16	1 1/2	3 1/2	3/4	2 1/4	3/8	3/16	5/8	1 1/16	—
C 6 × 8.2	6	1 7/8	3/16	3/16	1/8	1 3/4	4 3/8	13/16	2 1/4	1/4	3/16	3/8	1 1/16	—
× 13	6	2	3/16	3/16	3/16	1 3/4	4 3/8	13/16	2 1/4	3/8	3/16	3/8	1 1/16	—
× 13	6	2 1/8	3/16	3/16	3/16	1 3/4	4 3/8	13/16	2 1/4	1/2	3/16	3/8	1 1/16	—
C 7 × 9.8	7	2 1/8	3/8	3/16	1/8	1 7/8	5 1/4	7/8	2 1/2	1/4	3/8	5/8	1 1/16	—
× 12.25	7	2 1/4	3/8	3/16	3/16	1 7/8	5 1/4	7/8	2 1/2	3/8	3/8	5/8	1 1/16	—
× 14.75	7	2 1/4	3/8	3/16	3/16	1 7/8	5 1/4	7/8	2 1/2	1/2	3/8	5/8	1 1/16	—

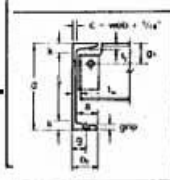


HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEEL

PAGE
12

C Shapes (continued)



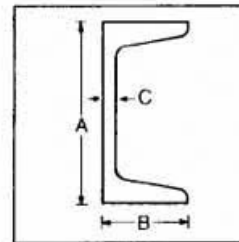
Stock lengths: 20/30/40/60; ASTM A-36

Approximate Dimensions for Detailing

Designation	Depth of Section d	Flange		Web Thickness t _w	Half Web Thick-ness t _w /2	Distance					Grip	Max. Flange Fastener	Usual Flange Gauge g	
		Width b _f	Thick-ness t _f			a	T	k	g ₁	c				
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
C 8 × 11.5	8	2 1/4	3/8	1/4	1/8	2	6 1/8	1 5/16	2 1/2	3/16	3/8	3/4	1 3/8	—
× 13.75	8	2 3/8	3/8	3/16	1/8	2	6 1/8	1 5/16	2 1/2	3/8	3/8	3/4	1 3/8	—
× 18.75	8	2 1/2	3/8	1/2	1/4	2	6 1/8	1 5/16	2 1/2	3/16	3/8	3/4	1 1/2	—
C 9 × 13.4	9	2 3/4	7/16	1/4	1/8	2 1/4	7 1/8	1 5/16	2 1/2	3/16	7/16	3/4	1 3/8	—
× 15	9	2 1/2	7/16	3/16	1/8	2 1/4	7 1/8	1 5/16	2 1/2	3/8	7/16	3/4	1 3/8	—
× 20	9	2 5/8	7/16	7/16	1/4	2 1/4	7 1/8	1 5/16	2 1/2	1/2	7/16	3/4	1 1/2	—
C10 × 15.3	10	2 5/8	7/16	1/4	1/8	2 3/8	8	1	2 1/2	3/16	7/16	3/4	1 1/2	—
× 20	10	2 3/4	7/16	3/8	3/16	2 3/8	8	1	2 1/2	7/16	7/16	3/4	1 1/2	—
× 25	10	2 7/8	7/16	1/2	1/4	2 3/8	8	1	2 1/2	3/16	7/16	3/4	1 3/4	—
× 30	10	3	7/16	1 1/16	3/16	2 3/8	8	1	2 1/2	3/4	7/16	3/4	1 3/4	—
C12 × 20.7	12	3	1/2	3/16	1/8	2 5/8	9 3/4	1 1/8	2 1/2	3/8	1/2	7/8	1 3/4	—
× 25	12	3	1/2	3/8	3/16	2 5/8	9 3/4	1 1/8	2 1/2	7/16	1/2	7/8	1 3/4	—
× 30	12	3 1/4	1/2	1/2	1/4	2 5/8	9 3/4	1 1/8	2 1/2	3/16	1/2	7/8	1 3/4	—
C15 × 33.9	15	3 3/4	5/8	3/8	3/16	3	12 1/8	1 1/16	2 3/4	7/16	3/8	1	2	—
× 40	15	3 1/2	5/8	1/2	1/4	3	12 1/8	1 1/16	2 3/4	3/16	3/8	1	2	—
× 50	15	3 3/4	5/8	1 1/16	3/8	3	12 1/8	1 1/16	2 3/4	3/4	3/8	1	2 1/4	—

Bar Size Channels

Stock lengths: 20/30; M-1020 or ASTM A-36



	A	B	C	wt./ft.
	3/4	3/8	1/8	.540
	1	3/4	1/8	.680
	1	1/2	1/8	.800
	1 1/4	1/2	1/8	1.000
	1 1/2	1/2	1/8	1.120
	1 1/2	9/16	3/16	1.440
	1 1/2	3/4	1/8	1.170
	1 1/2	1 1/2	3/16	2.650
	2	1/2	1/8	1.340
	2	9/16	3/16	1.760
	2	3/4	1/4	2.180
	2	1	1/8	1.780
	2	1	3/16	2.570
	2 1/2	3/4	3/16	2.270

Stock subject to availability from producing mills.



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEEL

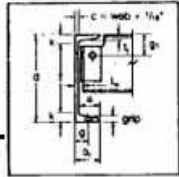
PAGE
13

SECTION
STEEL

PAGE
14



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com



MC Shapes/Jr. and Ship Channel

Stock lengths: 20/30/40/60: ASTM A-36

Approximate Dimensions for Detailing

Designation	Depth of Section <i>d</i>	Flange		Web Thickness <i>t_w</i>	$\frac{t_w}{2}$	Distance					Grip	Max Flange Fastener	Usual Flange Gage <i>g</i>
		Width <i>b_f</i>	Thick-ness <i>t_f</i>			<i>a</i>	<i>T</i>	<i>k</i>	<i>g₁</i>	<i>c</i>			
		in.	in.			in.	in.	in.	in.	in.			
MC 4 x 13.8 6 x 12	4 6	2 1/2 2 1/2	1/2 3/8	1/2 5/16	1/4 1/8	2 2 1/8	2 1/4 4 3/8	7/8 1 3/16	2 2 1/4	9/16 3/8	1/2 3/8	5/8 3/8	1 1/2 1 1/2
MC 6 x 15.1 x 16.3	6 6	3 3	1/2 1/2	5/16 3/8	3/16 3/16	2 5/8 2 5/8	3 1/8 3 3/8	1 1/16 1 1/16	2 1/2 2 1/2	3/8 1/16	1/2 1/2	3/4 3/4	1 1/4 1 3/4
MC 6 x 15.3 x 18	6 6	3 1/2 3 1/2	3/8 1/2	5/16 1/2	3/16 3/16	3 1/8 3 1/8	4 1/4 3 7/8	7/8 1 1/16	2 1/4 2 1/2	3/8 7/16	3/8 1/2	7/8 7/8	2 2
MC 7 x 17.6	7	3	1/2	3/8	3/16	2 5/8	4 7/8	1 1/16	2 1/2	7/16	1/2	3/4	1 3/4
MC 7 x 19.1 x 22.7	7 7	3 1/2 3 3/8	1/2 1/2	3/8 1/2	3/16 1/4	3 1/8 3 1/8	4 3/4 4 1/4	1 1/8 1 1/8	2 1/2 2 1/2	7/16 9/16	1/2 1/2	7/8 7/8	2 2
MC 8 x 8.5	8	1 7/8	3/16	3/16	1/16	1 3/4	6 1/2	3/4	2 1/4	1/4	5/16	5/8	1 1/8
MC 8 x 18.7 x 20	8 8	3 3	1/2 1/2	3/8 3/8	3/16 3/16	2 5/8 2 5/8	5 1/4 5 3/4	1 1/8 1 1/8	2 1/2 2 1/2	7/16 7/16	1/2 1/2	7/8 7/8	2 2
MC 8 x 21.4 x 22.8	8 8	3 1/2 3 1/2	1/2 1/2	3/8 7/16	3/16 3/16	3 1/8 3 1/8	5 5/8 5 5/8	1 3/16 1 3/16	2 1/2 2 1/2	7/16 1/2	1/2 1/2	7/8 7/8	2 2
MC 9 x 23.9 x 25.4	9 9	3 1/2 3 1/2	3/16 3/16	3/8 7/16	3/16 1/4	3 3	6 5/8 6 5/8	1 3/16 1 3/16	2 1/2 2 1/2	7/16 1/2	9/16 9/16	7/8 7/8	2 2
MC10 x 6.5	10	1 1/8	3/16	1/8	1/16	1	9 1/8	3/16	2 1/4	3/16	3/16	—	—
MC10 x 8.4	10	1 1/2	1/4	3/16	1/16	1 3/8	8 5/8	1 1/16	2 1/4	1/4	1/4	—	—
MC10 x 21.9 x 24.9 x 25.3 x 28.3	10 10 10 10	3 1/2 3 3/8 3 1/2 3 1/2	1/2 3/16 1/2 3/16	5/16 3/8 7/16 1/4	3/16 3/16 3/16 1/4	3 1/8 3 1/8 3 1/8 3	7 1/4 7 1/2 7 1/4 7 1/2	1 1/8 1 1/4 1 1/8 1 1/4	2 1/2 2 1/2 2 1/2 2 1/2	3/8 7/16 1/2 9/16	1/2 1/2 1/2 1/2	7/8 7/8 7/8 7/8	2 2 2 2
MC10 x 28.5 x 33.6 x 41.1	10 10 10	4 4 1/8 4 3/8	3/16 3/16 3/16	7/16 9/16 1 1/16	3/16 5/16 3/8	3 1/2 3 1/2 3 1/2	7 1/2 7 1/2 7 1/2	1 1/4 1 1/4 1 1/4	2 1/2 2 1/2 2 1/2	1/2 3/8 7/8	9/16 9/16 9/16	7/8 7/8 7/8	2 1/2 2 1/2 2 1/2
MC12 x 10.6	12	1 1/2	3/16	3/16	1/8	1 1/4	10 5/8	1 1/16	2 1/4	1/4	1/4	—	—
MC12 x 30.9 x 32.9 x 37	12 12 12	3 1/2 3 1/2 3 3/8	5/8 3/8 3/8	7/16 1/2 3/8	1/4 1/4 3/16	3 3 3	9 5/8 9 5/8 9 5/8	1 5/16 1 5/16 1 5/16	2 1/2 2 1/2 2 1/2	1/2 9/16 1 1/16	9/16 9/16 3/8	7/8 7/8 7/8	2 1/4 2 1/4 2 1/4
MC12 x 35 x 40 x 45 x 50	12 12 12 12	3 3/4 3 7/8 4 4 1/8	1 1/16 1 1/16 1 1/16 1 1/16	7/16 9/16 1 1/16 7/16	1/4 3/16 3/8 3/4	3 1/4 3 1/4 3 1/4 3 1/4	9 5/8 9 5/8 9 5/8 9 5/8	1 5/16 1 5/16 1 5/16 1 5/16	2 1/2 2 1/2 2 1/2 2 1/2	1/2 3/8 3/4 7/8	1 1/16 1 1/16 1 1/16 1 1/16	1 1 1 1	2 1/2 2 1/2 2 1/2 2 1/2

MC Shapes (continued)

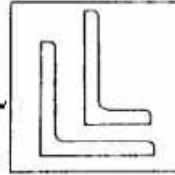
Stock lengths: 20/30/40/60; ASTM A-36

Approximate Dimensions for Detailing

Designation	Depth of Section <i>d</i>	Flange		Web Thickness <i>t_w</i>	Half Web Thickness $\frac{t_w}{2}$	Distance					Grip	Max. Flange Fastener	Usual Flange Gage <i>g</i>
		Width <i>b_f</i>	Avg. Thick-ness <i>t_f</i>			<i>a</i>	<i>T</i>	<i>k</i>	<i>g₁</i>	<i>c</i>			
		in.	in.			in.	in.	in.	in.	in.			
MC13 x 31.8 x 35 x 40 x 50	13 13 13 13	4 4 1/8 4 1/8 4 3/8	3/8 3/8 3/8 3/8	3/8 7/16 9/16 1 1/16	3/16 1/4 3/8 3/8	3 5/8 10 1/4 10 1/4 10 1/4	1 3/8 1 3/8 1 3/8 1 3/8	2 1/4 2 1/4 2 1/4 2 1/4	3 1/16 1 1/2 1 1/2 7/8	9/16 9/16 9/16 9/16	1 1 1 1	2 1/2 2 1/2 2 1/2 2 1/2	
MC18 x 42.7 x 45.8 x 51.9 x 58	18 18 18 18	4 4 4 1/8 4 1/4	3/8 3/8 3/8 3/8	7/16 1/2 5/8 1 1/16	1/4 3/4 3 1/8 3/8	15 1/4 15 1/4 15 1/4 15 1/4	1 3/8 1 3/8 1 3/8 1 3/8	2 1/2 2 1/2 2 1/2 2 1/2	1/2 1/2 1 1/16 3/4	5/8 5/8 5/8 5/8	1 1 1 1	2 1/2 2 1/2 2 1/2 2 1/2	



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com



**SECTION
STEEL**

**PAGE
15**

Bar Size Angle

Stock lengths: 20/30 to 1 1/2", 20/30/40 to 2 1/2"; M-1020 or ASTM A-36

Equal Leg

Dimensions				lbs/ft
1/2	x	1/2	x 1/8 angle	.380
5/8	x	5/8	x 1/8 angle	.480
3/4	x	3/4	x 1/8 angle	.590
7/8	x	7/8	x 1/8 angle	.700
1	x	1	x 1/8 angle	.800
1	x	1	x 3/16 angle	1.160
1	x	1	x 1/4 angle	1.490
1 1/4	x	1 1/4	x 1/8 angle	1.010
1 1/4	x	1 1/4	x 3/16 angle	1.480
1 1/4	x	1 1/4	x 1/4 angle	1.920
1 1/2	x	1 1/2	x 1/8 angle	1.230
1 1/2	x	1 1/2	x 3/16 angle	1.800
1 1/2	x	1 1/2	x 1/4 angle	2.340
1 1/2	x	1 1/2	x 3/16 angle	2.860
1 1/2	x	1 1/2	x 3/8 angle	3.350
1 3/4	x	1 3/4	x 1/8 angle	1.440
1 3/4	x	1 3/4	x 3/16 angle	2.120
1 3/4	x	1 3/4	x 1/4 angle	2.770
2	x	2	x 1/8 angle	1.650
2	x	2	x 3/16 angle	2.440
2	x	2	x 1/4 angle	3.190
2	x	2	x 5/16 angle	3.920
2	x	2	x 3/8 angle	4.700
2 1/2	x	2 1/2	x 3/16 angle	3.070
2 1/2	x	2 1/2	x 1/4 angle	4.100
2 1/2	x	2 1/2	x 5/16 angle	5.000
2 1/2	x	2 1/2	x 3/8 angle	5.900
2 1/2	x	2 1/2	x 1/2 angle	7.700

Unequal Leg

Dimensions				lbs/ft
2	x	1 1/2	x 1/8 angle	1.440
2	x	1 1/2	x 3/16 angle	2.120
2	x	1 1/2	x 1/4 angle	2.770
2 1/2	x	1 1/2	x 3/16 angle	2.440
2 1/2	x	1 1/2	x 1/4 angle	3.190
2 1/2	x	1 1/2	x 5/16 angle	3.920
2 1/2	x	2	x 3/16 angle	2.750
2 1/2	x	2	x 1/4 angle	3.620
2 1/2	x	2	x 5/16 angle	4.500
2 1/2	x	2	x 3/8 angle	5.300



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
16**

Structural Angle/Equal

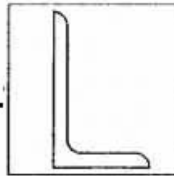
Stock lengths: 20/30/40/60; ASTM A-36

All sizes subject to availability

Dimensions				lbs/ft
3	x	3	x 3/16 angle	3.710
3	x	3	x 1/4 angle	4.900
3	x	3	x 5/16 angle	6.100
3	x	3	x 3/8 angle	7.200
3	x	3	x 1/2 angle	9.400
3 1/2	x	3 1/2	x 1/4 angle	5.800
3 1/2	x	3 1/2	x 3/16 angle	7.200
3 1/2	x	3 1/2	x 3/8 angle	8.500
3 1/2	x	3 1/2	x 1/2 angle	9.800
3 1/2	x	3 1/2	x 1/2 angle	11.100
4	x	4	x 1/4 angle	6.600
4	x	4	x 5/16 angle	8.200
4	x	4	x 3/8 angle	9.800
4	x	4	x 1/2 angle	11.300
4	x	4	x 1/2 angle	12.800
4	x	4	x 5/8 angle	15.700
4	x	4	x 3/4 angle	18.500
5	x	5	x 3/16 angle	10.300
5	x	5	x 1/8 angle	12.300
5	x	5	x 7/16 angle	14.300
5	x	5	x 1/2 angle	16.200
5	x	5	x 5/8 angle	20.000
5	x	5	x 3/4 angle	23.600
5	x	6	x 5/16 angle	12.400
6	x	6	x 3/8 angle	14.900
6	x	6	x 7/16 angle	17.200
6	x	6	x 1/2 angle	19.600
6	x	6	x 5/8 angle	24.200
6	x	6	x 3/4 angle	28.700
6	x	6	x 7/8 angle	33.100
6	x	6	x 1 angle	37.400
8	x	8	x 1/2 angle	26.400
8	x	8	x 5/8 angle	32.700
8	x	8	x 3/4 angle	38.900
8	x	8	x 7/8 angle	45.000
8	x	8	x 1 angle	51.000
8	x	8	x 1 1/8 angle	56.900

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL****PAGE
17****HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL****PAGE
18****Structural Angle/Unequal****Hot Rolled Bar/Flats & UM Plate**

Stocked in 20 ft. lengths; M-1020 or ASTM A-36

Any width available from plate.

Stock lengths: 20/30/40/60; ASTM A-36

All sizes subject to availability

Dimensions	lbs/ft	Dimensions	lbs/ft
3 x 2 x 3/16 angle	3.070	6 x 3 1/2 x 1/4 angle	7.900
3 x 2 x 1/4 angle	4.100	6 x 3 1/2 x 5/16 angle	9.800
3 x 2 x 5/16 angle	5.000	6 x 3 1/2 x 3/8 angle	11.700
3 x 2 x 7/16 angle	5.900	6 x 3 1/2 x 1/2 angle	15.300
3 x 2 x 1/2 angle	7.700		
3 x 2 1/2 x 3/16 angle	3.390	6 x 4 x 1/4 angle	8.300
3 x 2 1/2 x 1/4 angle	4.500	6 x 4 x 5/16 angle	10.300
3 x 2 1/2 x 5/16 angle	5.600	6 x 4 x 3/8 angle	12.300
3 x 2 1/2 x 7/16 angle	6.600	6 x 4 x 1/2 angle	14.300
3 x 2 1/2 x 1/2 angle	8.500	6 x 4 x 5/8 angle	16.200
3 1/2 x 2 1/2 x 1/4 angle	4.900	6 x 4 x 3/4 angle	20.000
3 1/2 x 2 1/2 x 5/16 angle	6.100	6 x 4 x 1/2 angle	23.600
3 1/2 x 2 1/2 x 3/8 angle	7.200	6 x 4 x 7/8 angle	27.200
3 1/2 x 2 1/2 x 1/2 angle	9.400	6 x 4 x 1 angle	30.600
3 1/2 x 3 x 1/4 angle	5.400	7 x 4 x 3/16 angle	13.600
3 1/2 x 3 x 5/16 angle	6.600	7 x 4 x 1/4 angle	15.800
3 1/2 x 3 x 3/8 angle	7.900	7 x 4 x 5/16 angle	17.900
3 1/2 x 3 x 1/2 angle	10.200	7 x 4 x 3/8 angle	20.000
		7 x 4 x 1/2 angle	22.100
4 x 3 x 1/4 angle	5.800	7 x 4 x 5/8 angle	26.200
4 x 3 x 5/16 angle	7.200	7 x 4 x 3/4 angle	30.200
4 x 3 x 3/8 angle	8.500		
4 x 3 x 1/2 angle	9.800	8 x 4 x 3/16 angle	17.200
4 x 3 x 5/8 angle	11.100	8 x 4 x 1/4 angle	19.600
4 x 3 x 3/4 angle	13.600	8 x 4 x 5/16 angle	24.200
4 x 3 1/2 x 1/4 angle	6.200	8 x 4 x 3/8 angle	28.700
4 x 3 1/2 x 5/16 angle	7.700	8 x 4 x 1/2 angle	33.100
4 x 3 1/2 x 3/8 angle	9.100	8 x 4 x 5/8 angle	37.400
4 x 3 1/2 x 1/2 angle	10.600		
4 x 3 1/2 x 3/4 angle	11.900	8 x 6 x 3/16 angle	20.200
4 x 3 1/2 x 5/8 angle	14.700	8 x 6 x 1/2 angle	23.000
		8 x 6 x 5/8 angle	28.500
5 x 3 x 1/4 angle	6.600	8 x 6 x 3/4 angle	33.800
5 x 3 x 5/16 angle	8.200	8 x 6 x 1/2 angle	39.100
5 x 3 x 3/8 angle	9.800	8 x 6 x 1 angle	44.200
5 x 3 x 1/2 angle	11.300		
5 x 3 x 3/4 angle	12.800	9 x 4 x 1/4 angle	21.300
5 x 3 x 5/8 angle	15.700	9 x 4 x 3/8 angle	26.300
5 x 3 1/2 x 1/4 angle	7.000		
5 x 3 1/2 x 5/16 angle	8.700		
5 x 3 1/2 x 3/8 angle	10.400		
5 x 3 1/2 x 1/2 angle	12.000		
5 x 3 1/2 x 3/4 angle	13.600		
5 x 3 1/2 x 5/8 angle	16.800		
5 x 3 1/2 x 3/4 angle	19.800		

Dimensions	lbs/ft	Dimensions	lbs/ft
1/4 x 1/2 HR flat	425	3/8 x 3 HR flat	3.825
1/4 x 5/8 HR flat	531	3/8 x 3 1/2 HR flat	4.463
1/4 x 3/4 HR flat	638	3/8 x 4 HR flat	5.100
1/4 x 1 HR flat	850	3/8 x 4 1/2 HR flat	5.738
1/4 x 1 1/4 HR flat	1.063	3/8 x 5 HR flat	6.375
1/4 x 1 1/2 HR flat	1.275	3/8 x 5 1/2 HR flat	7.013
1/4 x 1 3/4 HR flat	1.488	3/8 x 6 HR flat	7.650
1/4 x 2 HR flat	1.700	3/8 x 6 1/2 HR flat	8.290
1/4 x 2 1/4 HR flat	1.913	3/8 x 7 HR flat	8.930
1/4 x 2 1/2 HR flat	2.125	3/8 x 8 HR flat	10.200
1/4 x 2 3/4 HR flat	2.338	3/8 x 9 UM plate	11.480
1/4 x 3 HR flat	2.550	3/8 x 10 UM plate	12.750
1/4 x 3 1/4 HR flat	2.763	3/8 x 12 UM plate	15.300
1/4 x 3 1/2 HR flat	2.975	3/8 x 13 UM plate	16.583
1/4 x 4 HR flat	3.400	3/8 x 14 UM plate	17.860
1/4 x 4 1/2 HR flat	3.825		
1/4 x 5 HR flat	4.250	1/2 x 3/4 HR flat	1.275
1/4 x 5 1/2 HR flat	4.675	1/2 x 1 HR flat	1.700
1/4 x 6 HR flat	5.100	1/2 x 1 1/4 HR flat	2.125
1/4 x 6 1/2 HR flat	5.520	1/2 x 1 1/2 HR flat	2.550
1/4 x 7 HR flat	5.950	1/2 x 1 3/4 HR flat	2.975
1/4 x 8 HR flat	6.800	1/2 x 2 HR flat	3.400
1/4 x 9 UM plate	7.646	1/2 x 2 1/4 HR flat	3.825
1/4 x 10 UM plate	8.500	1/2 x 2 1/2 HR flat	4.250
1/4 x 11 UM plate	9.346	1/2 x 2 3/4 HR flat	4.675
1/4 x 12 UM plate	10.200	1/2 x 3 HR flat	5.100
1/4 x 13 UM plate	11.045	1/2 x 3 1/2 HR flat	5.950
		1/2 x 4 HR flat	6.800
5/16 x 1 HR flat	1.063	1/2 x 4 1/2 HR flat	7.650
5/16 x 1 1/4 HR flat	1.328	1/2 x 5 HR flat	8.500
5/16 x 1 1/2 HR flat	1.594	1/2 x 5 1/2 HR flat	9.350
5/16 x 1 3/4 HR flat	1.859	1/2 x 6 HR flat	10.200
5/16 x 2 HR flat	2.125	1/2 x 7 HR flat	11.900
5/16 x 2 1/4 HR flat	2.391	1/2 x 8 HR flat	13.600
5/16 x 2 1/2 HR flat	2.656	1/2 x 9 UM plate	15.304
5/16 x 3 HR flat	3.188	1/2 x 10 UM plate	17.000
5/16 x 3 1/2 HR flat	3.719	1/2 x 12 UM plate	20.400
5/16 x 4 HR flat	4.250	1/2 x 14 UM plate	23.800
5/16 x 4 1/2 HR flat	4.781		
5/16 x 5 HR flat	5.313	5/8 x 1 HR flat	2.125
5/16 x 5 1/2 HR flat	5.844	5/8 x 1 1/4 HR flat	2.656
5/16 x 6 HR flat	6.375	5/8 x 1 1/2 HR flat	3.188
5/16 x 7 HR flat	7.440	5/8 x 1 3/4 HR flat	3.719
5/16 x 8 HR flat	8.500	5/8 x 2 HR flat	4.250
5/16 x 9 UM plate	9.569	5/8 x 2 1/4 HR flat	4.781
5/16 x 10 UM plate	10.620	5/8 x 2 1/2 HR flat	5.313
5/16 x 12 UM plate	12.750	5/8 x 2 3/4 HR flat	5.844
		5/8 x 3 HR flat	6.375
3/8 x 1/2 HR flat	638	5/8 x 3 1/2 HR flat	7.438
3/8 x 3/4 HR flat	956	5/8 x 4 HR flat	8.500
3/8 x 1 HR flat	1.275	5/8 x 4 1/2 HR flat	9.563
3/8 x 1 1/4 HR flat	1.594	5/8 x 5 HR flat	10.625
3/8 x 1 1/2 HR flat	1.913	5/8 x 5 1/2 HR flat	11.690
3/8 x 1 3/4 HR flat	2.231	5/8 x 6 HR flat	12.750
3/8 x 2 HR flat	2.550	5/8 x 7 HR flat	14.880
3/8 x 2 1/4 HR flat	2.869	5/8 x 8 HR flat	17.000
3/8 x 2 1/2 HR flat	3.188	5/8 x 9 UM plate	19.127
3/8 x 2 3/4 HR flat	3.506	5/8 x 10 UM plate	21.250

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
19**

**SECTION
STEEL**

**PAGE
20**

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

Hot Rolled Bar/Square, Round, Strip

Stock lengths: 20 ft.

ASTMA-36

Dimensions	lbs/ft
3/8" x 11 UM plate	23,380
3/8" x 12 UM plate	25,500
3/8" x 16 UM plate	34,000
3/4" x 1 HR flat	2,550
3/4" x 1 1/4 HR flat	3,188
3/4" x 1 3/8 HR flat	3,506
3/4" x 1 1/2 HR flat	3,825
3/4" x 1 3/4 HR flat	4,463
3/4" x 2 HR flat	5,100
3/4" x 2 1/2 HR flat	6,375
3/4" x 3 HR flat	7,650
3/4" x 3 1/2 HR flat	8,925
3/4" x 3 3/4 HR flat	9,560
3/4" x 4 HR flat	10,200
3/4" x 4 1/2 HR flat	11,475
3/4" x 5 HR flat	12,750
3/4" x 5 1/2 HR flat	14,030
3/4" x 6 HR flat	15,300
3/4" x 7 HR flat	17,850
3/4" x 8 HR flat	20,400
3/4" x 9 UM plate	22,950
3/4" x 10 UM plate	25,500
3/4" x 11 UM plate	28,050
3/4" x 12 UM plate	30,600
7/8" x 1 HR flat	2,975
7/8" x 1 1/4 HR flat	3,719
7/8" x 1 1/2 HR flat	4,463
7/8" x 1 3/4 HR flat	5,206
7/8" x 2 HR flat	5,950
7/8" x 2 1/2 HR flat	7,438
7/8" x 3 HR flat	8,925
7/8" x 3 1/2 HR flat	10,413
7/8" x 4 HR flat	11,900
7/8" x 4 1/2 HR flat	13,390
7/8" x 5 HR flat	14,750
7/8" x 5 1/2 HR flat	16,380
7/8" x 6 HR flat	17,950
7/8" x 7 HR flat	20,830
7/8" x 8 HR flat	23,800
7/8" x 9 UM plate	26,773
7/8" x 10 UM plate	29,750
7/8" x 12 UM plate	35,700
1" x 1 1/4 HR flat	4,250
1" x 1 1/2 HR flat	5,100
1" x 1 3/4 HR flat	5,950
1" x 2 HR flat	6,800
1" x 2 1/2 HR flat	8,500
1" x 3 HR flat	10,200
1" x 3 1/2 HR flat	11,900
1" x 4 HR flat	13,600
1" x 4 1/2 HR flat	15,300
1" x 5 HR flat	17,000
1" x 5 1/2 HR flat	18,700
1" x 6 HR flat	20,400
1" x 7 HR flat	23,800
1" x 8 HR flat	27,200

ASTMA-36

Dimensions	lbs/ft
1" x 9 UM plate	30,596
1" x 10 UM plate	34,000
1" x 12 UM plate	40,800
1" x 15 UM plate	50,990
1 1/4" x 1 1/2 HR flat	6,375
1 1/4" x 2 HR flat	8,500
1 1/4" x 2 1/2 HR flat	10,625
1 1/4" x 3 HR flat	12,750
1 1/4" x 3 1/2 HR flat	14,875
1 1/4" x 4 HR flat	17,000
1 1/4" x 4 1/2 HR flat	19,125
1 1/4" x 5 HR flat	21,250
1 1/4" x 5 1/2 HR flat	23,380
1 1/4" x 6 HR flat	25,500
1 1/4" x 7 HR flat	29,750
1 1/4" x 8 HR flat	34,000
1 1/2" x 2 HR flat	10,200
1 1/2" x 2 1/2 HR flat	12,750
1 1/2" x 3 HR flat	15,300
1 1/2" x 3 1/2 HR flat	17,850
1 1/2" x 4 HR flat	20,400
1 1/2" x 4 1/2 HR flat	22,950
1 1/2" x 5 HR flat	25,500
1 1/2" x 6 HR flat	30,600
1 1/2" x 7 HR flat	35,700
1 1/2" x 8 HR flat	40,800
1 3/4" x 2 HR flat	11,900
1 3/4" x 2 1/2 HR flat	14,880
1 3/4" x 3 HR flat	17,850
1 3/4" x 3 1/2 HR flat	20,830
1 3/4" x 4 HR flat	23,800
1 3/4" x 4 1/2 HR flat	26,780
1 3/4" x 5 HR flat	29,750
1 3/4" x 6 HR flat	35,700
2" x 2 1/2 HR flat	17,000
2" x 3 HR flat	20,400
2" x 3 1/2 HR flat	23,800
2" x 4 HR flat	27,200
2" x 4 1/2 HR flat	30,600
2" x 5 HR flat	34,000
2" x 6 HR flat	40,800
2" x 7 HR flat	47,600
2" x 8 HR flat	54,400
2 1/2" x 3 HR flat	25,500
2 1/2" x 3 1/2 HR flat	29,750
2 1/2" x 4 HR flat	34,000
2 1/2" x 4 1/2 HR flat	38,250
2 1/2" x 5 HR flat	42,500
2 1/2" x 5 1/2 HR flat	46,750
2 1/2" x 6 HR flat	51,000
3" x 4 HR flat	40,800
3" x 4 1/2 HR flat	45,900
3" x 5 HR flat	51,000
3" x 6 HR flat	61,200

Square M-1020 or ASTM A-36

Dimensions	lbs/ft.
1/4 inch HR square	.213
3/16 inch HR square	.332
3/8 inch HR square	.478
7/16 inch HR square	.651
1/2 inch HR square	.850
5/8 inch HR square	1.328
3/4 inch HR square	1.913
7/8 inch HR square	2.603
1 inch HR square	3.400
1 1/4 inch HR square	5.313
1 1/2 inch HR square	7.650
1 3/4 inch HR square	10.410
2 inch HR square	13.600
2 1/2 inch HR square	21.250
3 inch HR square	30.600

Round M-1020 or ASTM A-36

Dimensions	lbs/ft
3/16 inch HR round	.094
1/8 inch HR round	.167
3/16 inch HR round	.261
* 23/64 inch HR round	.345
3/8 inch HR round	.376
* 27/64 inch HR round	.475
7/16 inch HR round	.511
* 31/64 inch HR round	.627
1/2 inch HR round	.666
9/16 inch HR round	.845
* 39/64 inch HR round	.992
5/8 inch HR round	1.043
11/16 inch HR round	1.260
* 47/64 inch HR round	1.440
3/4 inch HR round	1.502
* 55/64 inch HR round	1.972
7/8 inch HR round	2.040
1 inch HR round	2.670
1 1/8 inch HR round	3.380
1 1/4 inch HR round	4.170
1 3/8 inch HR round	5.050
1 1/2 inch HR round	6.010
1 3/4 inch HR round	8.180
2 inch HR round	10.680
2 1/4 inch HR round	13.520
2 1/2 inch HR round	16.690
2 3/4 inch HR round	20.190
3 inch HR round	24.030
3 1/2 inch HR round	32.710
4 inch HR round	42.730
4 1/2 inch HR round	54.080
5 inch HR round	66.760
6 inch HR round	96.130
7 inch HR round	130.840
8 inch HR round	170.920

*Bolt Stock (= 1/64" under the next largest size for roll threading bolts)



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
21**

**SECTION
STEEL**

**PAGE
22**



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

Hot Rolled Plate

Stock lengths 20 ft. Any width available from sheet or plate 12/20 ft.

To ASTM A-36; ASTM A-515 Grade 70 PVQ Abrasion Resistant Steels: Brinell 200 to 500

Strip

Dimensions	lbs/ft
1/8" x 1/2" HR strip	.213
1/8" x 3/4" HR strip	.266
1/8" x 1" HR strip	.319
1/8" x 1 1/4" HR strip	.372
1/8" x 1 1/2" HR strip	.425
1/8" x 1 3/4" HR strip	.478
1/8" x 2" HR strip	.531
1/8" x 2 1/2" HR strip	.584
1/8" x 3" HR strip	.638
1/8" x 3 1/2" HR strip	.691
1/8" x 4" HR strip	.744
1/8" x 4 1/2" HR strip	.797
1/8" x 5" HR strip	.850
1/8" x 5 1/2" HR strip	.903
1/8" x 6" HR strip	.956
1/8" x 7" HR strip	1.063
1/8" x 8" HR strip	1.169
1/8" x 10" HR strip	1.275
1/8" x 12" HR strip	1.381
3/16" x 1/2" HR strip	.319
3/16" x 3/4" HR strip	.398
3/16" x 1" HR strip	.478
3/16" x 1 1/4" HR strip	.558
3/16" x 1 1/2" HR strip	.638
3/16" x 1 3/4" HR strip	.717
3/16" x 2" HR strip	.797
3/16" x 2 1/2" HR strip	.876
3/16" x 3" HR strip	.956
3/16" x 3 1/2" HR strip	1.035
3/16" x 4" HR strip	1.116
3/16" x 4 1/2" HR strip	1.195
3/16" x 5" HR strip	1.275
3/16" x 5 1/2" HR strip	1.354
3/16" x 6" HR strip	1.434
3/16" x 7" HR strip	1.594
3/16" x 8" HR strip	1.754
3/16" x 10" HR strip	1.913
3/16" x 12" HR strip	2.073

Handrail (M-1015)

Stocked in 20 ft. lengths

ASTM A-36

Sizes	lbs./sq. ft.
3/16"	7.650
1/4"	10.200
5/16"	12.750
3/8"	15.300
7/16"	17.850
1/2"	20.400
9/16"	22.950
5/8"	25.500
11/16"	28.050
3/4"	30.600
13/16"	33.148
7/8"	35.700
15/16"	38.250
1"	40.800
1 1/8"	45.900
1 1/4"	48.446
1 1/2"	51.000
1 3/4"	56.100
1 7/8"	58.650
1 1/2"	61.200
1 5/8"	66.300
1 11/16"	68.846
1 3/4"	71.400
1 13/16"	73.950
1 15/16"	79.056
2"	81.600
2 1/4"	91.800
2 1/2"	102.000
2 3/4"	112.200
3"	122.400
3 1/2"	142.800
4"	163.200
4 1/2"	183.600
5"	204.000
5 1/2"	224.400
6"	244.800
7"	285.600
8"	326.400
10"	408.000
12"	489.600

ASTM A-36

Thickness	Size	Lbs/Plate
3/16"	48 x 96	244
	x 120	306
	x 144	367
	x 240	612
	x 288	734
	60 x 240	765
	x 288	918
	x 360	1,147
	72 x 240	918
	x 288	1,102
	x 360	1,377
	84 x 240	1,070
x 288	1,285	
x 360	1,606	
96 x 240	1,224	
x 288	1,469	
x 360	1,836	
1/4"	48 x 96	326
	x 120	408
	x 144	490
	x 240	816
	x 288	979
	x 360	1,224
	60 x 240	1,020
	x 288	1,224
	x 360	1,530
	72 x 240	1,224
	x 288	1,469
	x 360	1,836
84 x 240	1,428	
x 288	1,714	
x 360	2,142	
96 x 240	1,632	
x 288	1,958	
x 300	2,040	
x 360	2,448	
120 x 240	2,040	
5/16"	60 x 240	1,275
	72 x 240	1,530
	84 x 240	1,785
	96 x 240	2,040
	x 360	3,060
	3/8"	48 x 96
x 120		612
x 144		735
x 240		1,224
x 288		1,469
60 x 240		1,530
x 288		1,836
x 360		2,296
72 x 240		1,836
x 288		2,203
x 360		2,754
84 x 240		2,142
x 360	3,215	
96 x 240	2,448	
x 360	3,672	

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
23**

**SECTION
STEEL**

**PAGE
24**

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

A-242 Corten A; A-588 Corten B

ASTM A-36

Thickness	Size	Lbs/Plate
1/2"	48 x 120	816
	x 144	979
	x 240	1,632
	x 288	1,958
	60 x 240	2,040
	x 288	2,449
	x 360	3,060
	72 x 240	2,448
	x 288	2,938
	x 360	3,672
	84 x 240	2,856
	x 288	3,428
x 360	4,284	
96 x 240	3,264	
x 360	4,896	
120 x 240	4,081	
3/8"	60 x 348	3,698
	x 360	3,825
	72 x 360	4,590
	84 x 360	5,356
	96 x 240	4,080
1/4"	x 360	6,121
	60 x 240	3,080
	x 288	3,672
	72 x 240	3,672
	x 288	4,406
	x 360	5,508
	84 x 360	6,426
	96 x 240	4,896
	x 288	5,816
	x 360	7,344
	120 x 240	6,120
	1	60 x 240
x 360		6,120
72 x 240		4,896
x 288		5,875
x 360		7,344
84 x 240		5,712
x 360		8,568
96 x 240		6,528
x 360	9,792	
1 1/8"	96 x 240	7,344
	72 x 240	6,120
1 1/4"	84 x 240	7,140
	96 x 240	8,160
	x 360	12,241
	13 1/8"	96 x 360
1 1/2"	72 x 240	7,344
	x 288	8,813
	84 x 240	8,568
	96 x 240	9,792
	x 360	14,688
13 1/4"	96 x 240	11,424

ASTM A-36

Thickness	Size	Lbs/Plate	
1 1/16"	84 x 240	10,353	
	2	72 x 240	9,792
	x 288	11,750	
	84 x 240	11,424	
2 1/4"	96 x 240	13,086	
	x 288	15,667	
	96 x 240	14,688	
2 1/2"	84 x 240	14,280	
	96 x 240	16,320	
3	84 x 240	17,136	
	96 x 240	19,584	

ASTM A-515 Grade 70 PVQ

Thickness	Size	Lbs/Plate
1"	84 x 288	6,854
1 1/4"	84 x 288	8,568
1 1/2"	72 x 240	7,344
2"	72 x 240	9,792
2 1/2"	65 x 144	6,630
3"	65 x 120	6,630
3 1/2"	84 x 180	14,994
4"	84 x 120	14,424

Intermediate widths & lengths stocked in many thicknesses.

Floor plate weights per square foot

Size	Lbs./Sq. Ft.
16 Gauge	3.00 pounds
14 Gauge	3.75
12 Gauge	5.25
1/8 Inch	6.15
3/16 Inch	8.70
1/4 Inch	11.25
5/16 Inch	13.80 pounds
3/8 Inch	16.35
1/2 Inch	21.45
5/8 Inch	26.55
3/4 Inch	31.65
1 Inch	41.85

Stock sizes

Size	Lbs. /Plate	
14 Gauge	48 x 96	120
	x 120	150
	x 144	180
12 Gauge	48 x 120	210
	1/8"	48 x 240
3/16"	x 288	590
	60 x 240	615
	x 288	738
	72 x 240	738
	48 x 120	348
1/4"	x 240	696
	x 288	890
	60 x 240	870
	72 x 240	1,044
	x 288	1,252
1/2"	84 x 240	1,218
	48 x 120	450
	x 240	900
	x 288	1,080
	60 x 240	1,125
	x 288	1,350
	72 x 240	1,350
	84 x 240	1,575
	96 x 240	1,800
	5/16"	60 x 240
3/8"	72 x 240	1,656
	96 x 240	2,207
	48 x 240	1,308
	x 288	1,570
	60 x 240	1,635
1/2"	72 x 240	1,962
	96 x 240	2,616
	48 x 240	1,716
	60 x 240	2,145
	72 x 240	2,574
3/4"	84 x 240	3,004
	96 x 240	3,432
	84 x 240	4,431
1"	96 x 240	5,064
	84 x 240	5,859
	96 x 240	6,696

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEEL

PAGE
25

Hot Rolled Sheet/Non-Spec. Plate

Non-standard sizes subject to availability

Hot Rolled Sheet

Size	lbs/Sheet
10 Gauge 36 x 96	135
x 120	169
48 x 96	180
x 120	225
x 144	270
60 x 120	281
x 144	336
72 x 120	281
x 144	405
11 Gauge 36 x 96	120
x 120	150
48 x 96	160
x 120	200
x 144	240
60 x 120	250
x 144	300
72 x 120	300
x 144	360
12 Gauge 36 x 120	131
48 x 96	140
x 120	175
x 144	210
60 x 120	219
x 144	263
72 x 120	263
x 144	315
14 Gauge 36 x 120	94
48 x 96	100
x 120	125
x 144	150
60 x 120	157
x 144	188
16 Gauge 36 x 96	60
x 120	75
48 x 96	80
x 120	100
60 x 120	125

Pounds per square foot

Size	Lbs/Sq. Ft.
4 Ga HR	9.375
5 Ga HR	8.750
6 Ga HR	8.125
7 Ga HR	7.500
8 Ga HR	6.875
9 Ga HR	6.250
10 Ga HR	5.625
11 Ga HR	5.000
12 Ga HR	4.375
13 Ga HR	3.750
14 Ga HR	3.125
16 Ga HR	2.500
18 Ga HR	2.000

Non-Specification Plate

Size	lbs/Sq Ft.
3/8 inch plate	25.500
1/2 inch plate	28.050
5/8 inch plate	30.600
3/4 inch plate	33.148
7/8 inch plate	35.700
1 inch plate	38.261
1 1/16 inch plate	40.800
1 1/8 inch plate	43.354
1 1/4 inch plate	45.900
1 3/8 inch plate	48.446
1 1/2 inch plate	51.000
1 5/8 inch plate	56.100
1 3/4 inch plate	58.650
1 7/8 inch plate	61.200
2 inch plate	66.300
1 1/2 inch plate	68.846
1 1/4 inch plate	71.400
1 3/8 inch plate	79.056
1 1/2 inch plate	81.600

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEEL

PAGE
26

Square Welded Tubing

Structural sizes to ASTM A-500B

Most sizes shown are carried in stock.

Size	Wall	Wt./Ft.	Size	Wall	Wt./Ft.
1/4 x 1/4	.032	0949	1 1/2 x 1 1/2	.035	.6977
3/8 x 3/8	.035	1618		.049	.9670
	.049	2176		.065	1.269
	.065	2740		.072	1.350
1/2 x 1/2	.035	2213		.083	1.600
	.049	3005		.095	1.815
	.065	3845		.109	2.062
5/8 x 5/8	.035	2808		.120	2.252
	.049	3838		.134	2.489
	.065	4950		.145	2.72
3/4 x 3/4	.035	3403	1 3/4 x 1 3/4	.049	1.134
	.049	4671		.065	1.490
	.065	6055		.083	1.882
	.072	6500		.095	2.138
	.083	7530		.120	2.660
	.095	8563		.180	3.842
	.120	10280			
7/8 x 7/8	.049	5504	2 x 2	.049	1.300
	.065	7160		.065	1.711
	.072	7900		.072	1.850
	.083	8940		.083	2.164
				.095	2.461
1 x 1	.035	4593		.109	2.803
	.049	6337		.120	3.188
	.065	8265		.134	3.401
	.072	8700		.145	3.51
	.083	1.035		.156	3.700
	.095	1.169		.188	4.490
	.109	1.321		.203	4.960
	.120	1.578		.250	5.710
	.134	1.578	2 1/4 x 2 1/4	.083	2.446
1 1/8 x 1 1/8	.049	.7170		.109	3.170
	.065	9370		.120	3.476
	.120	1.6400		.180	5.065
				.250	7.008
1 1/4 x 1 1/4	.035	.5780	2 1/2 x 2 1/2	.065	2.153
	.049	.8000		.083	2.728
	.065	1.048		.095	3.107
	.072	1.110		.109	3.544
	.083	1.317		.120	4.038
	.095	1.492		.134	4.312
	.109	1.691		.188	5.750
	.120	1.844		.203	6.340
	.134	2.033		.250	7.410
	.140	2.270			
	.188	2.610			



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
27**



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
28**

Rectangular Welded Tubing

Mechanical and ornamental sizes to AISI 1010. Most sizes carried in stock.

Structural Sizes to ASTM A-500B

Size	Wall	Wt./Ft.	Size	Wall	Wt./Ft.	
3 x 3	.065	2.594	7 x 7	.188	17.13	
	.083	3.292		250	22.71	
	.095	3.753		313	28.08	
	.109	4.286		375	33.32	
	.120	4.700		500	43.51	
	.134	5.223	8 x 8	.188	19.65	
	.156	5.820		250	26.04	
	.188	7.040		313	32.33	
	.203	7.770		375	38.42	
	.250	9.110		500	50.31	
3 1/2 x 3 1/2	.065	3.036	9 x 9	.188	22.17	
	.120	5.516		250	29.37	
	.188	8.300		313	36.38	
	.203	9.200		375	43.51	
	.250	10.810		500	57.11	
	.313	13.190		10 x 10	.188	24.65
4 x 4	.083	4.422	250		32.70	
	.095	4.970	313		40.80	
	.120	6.332	375		48.61	
	.134	7.045	500		63.91	
	.188	9.590	625		78.42	
	.250	12.510	11 x 11	250	36.11	
.313	15.330	312		44.86		
.375	18.020	375		53.67		
.500	22.980	500		76.89		
4 1/2 x 4 1/2	.188	10.84		12 x 12	250	39.44
	.250	14.21			313	48.95
	5 x 5	.188	12.14		375	58.47
		.250	15.91		500	77.51
.313		19.58	14 x 14	.313	57.45	
.375		23.12		375	68.67	
.500	29.78	500		90.77		
5 1/2 x 5 1/2	.188	13.39		16 x 16	313	65.61
	.250	17.61	375		78.53	
	.313	21.69	500		104.03	
	.375	25.67	6 x 6		.188	14.65
.250	19.31	.250		19.31		
.313	23.83	.313		23.83		
.375	28.22	.375		28.22		
.500	36.72					

Stock subject to availability from producing mills. Available in stainless steels.

Size	Wall	Wt./Ft.	Size	Wall	Wt./Ft.		
1 x 1/2	.049	.4671	2 1/2 x 1	.065	1.490		
	.065	.6055		.083	1.882		
1 1/4 x 1/2	.065	.7160		.120	2.660		
	1 1/4 x 1	.065	.9370	2 1/2 x 1 1/4	.083	2.203	
.120		1.640	.120		2.863		
1 1/2 x 1/2	.049	.6337	2 1/2 x 1 1/2	.065	1.711		
	.065	.8265		.072	1.850		
1 1/2 x 3/4	.049	.7170	.083	2.164			
	.065	.9370	.095	2.461			
	.072	1.030	.120	3.068			
	.083	1.176	.145	3.51			
	.095	1.331	.180	4.454			
	.120	1.640	.188	4.49			
1 1/2 x 1	.049	.8000	.250	5.400			
	.065	1.048	3 x 1	.065	1.711		
	.072	1.110		.083	2.164		
	.083	1.317		.095	2.460		
	.095	1.492		.120	3.068		
	.109	1.590		.180	4.454		
.120	1.844	3 x 1 1/2		.065	1.931		
1 1/2 x 1 1/4	.120		2.048	.083	2.446		
	2 x 3/4		.065	1.158	.095	2.783	
.109			1.876	.120	3.476		
2 x 1	.049		.9670	.180	5.067		
	.065		1.269	3 x 2	.065	2.153	
	.072	1.390	.083		2.723		
	.083	1.600	.095		3.106		
	.095	1.815	.120		3.884		
	.109	2.062	.125		3.98		
.120	2.252	.188	5.750				
2 x 1 1/4	.145	2.72	.250	7.410			
	.188	3.63	3 x 2 1/2	.120	4.291		
	2 x 1 1/2	.083		1.741	.180	6.290	
		.120		2.456	3 1/2 x 1	.083	2.446
		.065		1.490		.109	3.174
		.072		1.630		.120	3.476
.083		1.882		.180		5.065	
.095		2.138					
.120	2.660						
.134	2.945						

All listings are subject to availability from the producing mill.
 Available in stainless steels, corrosion resistant analyses, high tensile specifications.

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEELPAGE
29**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEELPAGE
30**Rectangular Tubing** (continued)**Mechanical and ornamental sizes to AISI 1010.**

Available in stainless steels.

Size	Wall	Wt./Ft.	Size	Wall	Wt./Ft.
3 1/2 x 1 1/2	.065	2.152	5 x 2 1/2	.120	5.922
	.083	2.728		.180	8.739
	.120	3.884		.250	11.90
	.180	5.678		.312	14.24
3 1/2 x 2 1/2	.095	3.753	5 x 3	.375	16.73
	.120	4.700		.083	4.421
	.190	6.901		.095	4.977
	.250	9.110		.120	6.331
4 x 1 1/2	.065	2.373	5 x 4	.125	6.53
	.083	3.010		.188	9.59
	.095	3.430		.250	12.51
	.120	4.292		.313	15.33
4 x 2	.180	6.291	6 x 2	.375	18.02
	.065	2.594		.500	22.98
	.083	3.292		.188	10.84
	.095	3.753		.250	14.21
4 x 2 1/2	.120	4.700	6 x 3	.313	17.44
	.125	4.83		.375	20.57
	.188	6.810		.125	6.53
	.250	9.110		.188	9.59
4 x 3	.120	5.108	6 x 4	.250	12.51
	.180	7.513		.313	15.33
	.065	3.036		.375	18.02
	.083	3.856		.500	26.37
5 x 2	.095	4.398	6 x 5	.188	12.14
	.120	5.515		.250	15.91
	.125	5.68		.313	19.58
	.188	8.140		.375	23.12
5 x 3	.250	10.810	6 x 6	.500	29.78
	.313	13.190		.188	13.39
	.375	15.46		.250	17.61
	.065	3.036		.313	21.69
5 x 4	.083	3.857	6 x 7	.375	25.67
	.120	5.516		.500	33.18
	.125	5.68			
	.188	8.14			
5 x 5	.250	10.81			
	.313	13.19			
	.375	15.46			

Structural tubing conforms to ASTM A-500B

Other analyses available on special order A-500A or A-500C

Size	Wall	Wt./Ft.	Size	Wall	Wt./Ft.
7 x 3	.188	12.14	9 x 3	.188	14.65
	.250	15.91		.250	19.31
	.313	19.58		.313	23.83
	.375	23.12		.375	28.22
7 x 4	.500	29.78	9 x 5	.500	36.72
	.188	13.39		.188	17.13
	.250	17.61		.250	22.71
	.313	21.69		.313	28.08
7 x 5	.375	25.67	9 x 6	.375	33.32
	.500	33.18		.500	43.51
	.188	14.65		.188	18.39
	.250	19.31		.250	24.38
8 x 2	.313	23.83	9 x 7	.313	30.19
	.375	28.22		.188	19.65
	.500	36.72		.250	26.04
	.188	12.14		.313	32.33
8 x 3	.250	15.91	10 x 2	.375	38.42
	.313	19.58		.500	50.31
	.375	23.12		.188	14.65
	.500	33.18		.250	19.31
8 x 4	.188	13.39	10 x 3	.313	23.83
	.250	17.61		.375	28.22
	.313	21.69		.500	36.72
	.375	25.67		.188	15.91
8 x 5	.500	33.18	10 x 4	.250	21.01
	.188	14.65		.313	25.94
	.250	19.31		.188	18.39
	.313	23.83		.250	24.38
8 x 6	.375	28.22	10 x 5	.313	28.08
	.500	36.72		.375	33.32
	.188	15.91		.500	43.51
	.250	21.01		.188	17.13
8 x 7	.313	25.94	10 x 6	.250	22.71
	.500	33.18		.313	28.08
	.188	13.39		.375	33.32
	.250	17.61		.500	43.51
9 x 3	.375	25.67	10 x 7	.188	18.39
	.500	33.18		.250	24.38
	.188	13.39		.313	30.19
	.250	17.61		.375	34.27
9 x 4	.313	21.69	10 x 8	.500	50.31
	.375	25.67		.188	19.65
	.500	33.18		.250	26.04
	.188	12.14		.313	32.33
9 x 5	.250	15.91	10 x 9	.375	38.42
	.313	19.58		.500	50.31
	.375	23.12			
	.500	33.18			

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
31**

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

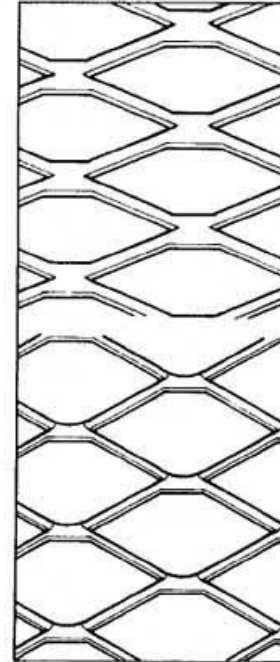
**PAGE
32**

USG Expanded Metal

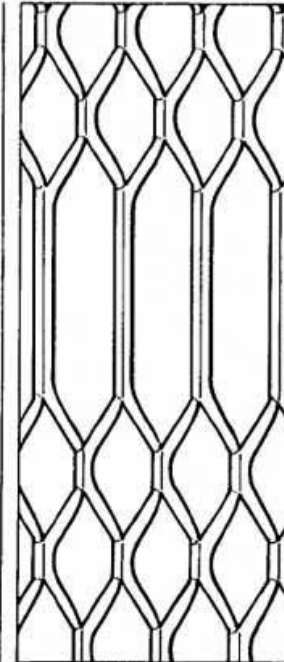
High tensile, corrosion resistant, or stainless steels available in many sizes.

Other large non-standard sizes available by special order.

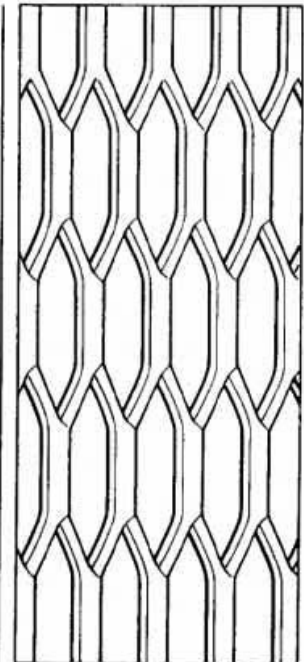
Size	Wall	Wt./Ft.	Size	Wall	Wt./Ft.	
10 x 8	.188	22.17	16 x 8	.313	48.95	
	.250	29.37		.375	58.47	
	.313	36.38		.500	77.51	
	.375	43.51		16 x 12	.313	57.45
	.500	57.11			.375	68.67
12 x 2	.188	17.13	.500		90.77	
	.250	22.71	18 x 6		.250	39.44
	12 x 3	.188			19.39	.313
		.250		24.38	.375	58.47
		.313		30.19	.500	77.51
.375		34.27		20 x 4	.313	48.95
12 x 4		.188	19.65		.375	58.47
	.250	26.04	.500		77.51	
	.313	32.33	20 x 8		.313	57.45
	.375	38.42			.375	68.67
	.500	50.31		.500	90.77	
12 x 8	.188	24.65		20 x 12	.313	65.61
	.250	32.70			.375	78.53
	.313	40.80	.500		104.03	
	.375	48.61	12 x 10		.188	26.99
	.500	63.91			.250	36.11
14 x 4	.188	22.17		.312	45.07	
	.250	29.37		.375	53.67	
	.313	36.38		.500	70.57	
	.375	43.51	14 x 6	.250	32.70	
	.500	57.11		.313	40.80	
14 x 10	.313	48.95		.375	48.61	
	.375	58.47		.500	63.91	
	.500	77.51		16 x 4	.313	40.80
	16 x 4	.313	40.80		.375	48.61
		.375	48.61		.500	63.91
.500		63.91				

**EXPAND-X
Expanded Metal**

Lightweight, versatile expanded metal made from carbon steel, stainless steel, or aluminum. Ideal for protective guards and screens where visibility, air flow and lighting are important. Good material for product applications.

**Decorative Meshes
Architectural and
Product Design**

Lightweight, strong expanded metal in steel or aluminum, choice of patterns and finishes for exterior or interior use, architecturally or in product design.

**GRATE-X
Expanded Metal
Grating**

Lightweight, economical expanded metal grating, satisfies optimum requirements for walkways, platforms, stairtreads, etc. Steel or aluminum. Many uses in construction.



HARRISON INDUSTRIAL SERVICES INC.

3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com

SECTION
STEEL

PAGE
33

SECTION
STEEL

PAGE
34



HARRISON INDUSTRIAL SERVICES INC.

3377 Deer Valley Road #163, Antioch, California 94531
Tel 1-888-212-6095
Fax 1-888-212-6095
Email info@harrison-isi.com
Web www.harrison-isi.com

USG Expanded Metal (continued)

Expand-X (continued)

Styles Available	Wt. Lbs. Per 100 Sq. Ft.		Diamond Size SWD x LWD (Inches)	Opening Size SWO x LWO (Inches)	Strand Size Width x Thickness (Inches)	Over-all Thickness (Inches)	Standard Sheet Size		Per Cent Open Area	Gauge Material Used (1)
	Black	Galv.					SWD Width	LWD Length		
Stainless Steel Expand-X										
1/2"-No. 18	73	—	.48 x 1.20	.36 x .41	.082 x .050	.154	3' & 4'	8'	65	18
1/2"-No. 16	91	—	.48 x 1.20	.36 x .48	.082 x .062	.161	3' & 4'	8'	65	16
3/4"-No. 18†	48	—	.83 x 2.00	.72 x 1.66	.101 x .050	.176	3' & 4'	8'	77	18
3/4"-No. 16	60	—	.83 x 2.00	.67 x 1.66	.101 x .062	.178	3' & 4'	8'	77	16
3/4"-No. 13	91	—	.83 x 2.00	.67 x 1.56	.101 x .093	.192	3' & 4'	8'	77	13
3/4"-No. 9	205	—	.83 x 2.00	.50 x 1.38	.152 x .140	.294	3' & 4'	8'	65	10
1 1/2"-No. 16	45	—	1.33 x 3.00	1.18 x 2.56	.115 x .062	.196	3' & 4'	8'	83	16
1 1/2"-No. 13	68	—	1.33 x 3.00	1.16 x 2.50	.115 x .093	.221	3' & 4'	8'	83	13
1 1/2"-No. 9	137	—	1.33 x 3.00	1.13 x 2.44	.154 x .140	.267	3' & 4'	8'	77	10
Stainless Steel Flattened Expand-X										
1/2"-No. 18	69	—	.48 x 1.26	.30 x 1.03	.093 x .042	.042	3' & 4'	8'	61	18
1/2"-No. 16	86	—	.48 x 1.26	.30 x 1.03	.093 x .052	.052	3' & 4'	8'	61	16
3/4"-No. 18†	46	—	.83 x 2.10	.66 x 1.81	.108 x .042	.042	3' & 4'	8'	74	18
3/4"-No. 16	57	—	.83 x 2.10	.67 x 1.81	.108 x .052	.052	3' & 4'	8'	74	16
3/4"-No. 13	88	—	.83 x 2.10	.58 x 1.78	.108 x .079	.079	3' & 4'	8'	74	13
3/4"-No. 9	198	—	.83 x 2.10	.50 x 1.56	.160 x .119	.119	3' & 4'	8'	61	10
1 1/2"-No. 16	43	—	1.33 x 3.15	1.03 x 2.75	.124 x .052	.052	3' & 4'	8'	81	16
1 1/2"-No. 13	66	—	1.33 x 3.15	1.02 x 2.69	.124 x .079	.079	3' & 4'	8'	81	13
1 1/2"-No. 9	131	—	1.33 x 3.15	.91 x 2.56	.165 x .119	.119	3' & 4'	8'	75	10
Aluminum Expand-X										
1/2"-No. .051	27	—	.51 x 1.20	.375 x .95	.089 x .051	.152	3' & 4'	8'	65	16
1/2"-No. .081	41	—	.51 x 1.20	.375 x .89	.089 x .081	.178	3' & 4'	8'	65	12
3/4"-No. .051	17	—	.88 x 2.00	.700 x 1.64	.104 x .051	.192	3' & 4'	8'	78	16
3/4"-No. .081 (Lt.)	32	—	.88 x 2.00	.700 x 1.64	.122 x .081	.211	3' & 4'	8'	78	12
3/4"-No. .081 (Hvy.)	41	—	.88 x 2.00	.734 x 1.64	.156 x .081	.270	3' & 4'	8'	68	12
3/4"-No. .125	65	—	.88 x 2.00	.650 x 1.50	.160 x .125	.320	3' & 4'	8'	74	8
1 1/2"-No. .081	22	—	1.33 x 3.00	1.200 x 2.56	.128 x .081	.226	3' & 4'	8'	83	12
1 1/2"-No. .125	43	—	1.33 x 3.00	1.130 x 2.40	.160 x .125	.340	3' & 4'	8'	85	8
Aluminum Flattened Expand-X										
1/2"-No. .051	25	—	.51 x 1.25	.328 x 1.00	.091 x .045	.045	3' & 4'	8'	64	16
1/2"-No. .081	39	—	.53 x 1.27	.297 x 1.00	.103 x .067	.067	3' & 4'	8'	59	12
3/4"-No. .051	16	—	.89 x 2.13	.625 x 1.75	.114 x .040	.040	3' & 4'	8'	76	16
3/4"-No. .081 (Lt.)	30	—	.89 x 2.13	.635 x 1.75	.134 x .070	.070	3' & 4'	8'	72	12
3/4"-No. .081 (Hvy.)	39	—	.89 x 2.13	.547 x 1.75	.172 x .070	.070	3' & 4'	8'	63	12
3/4"-No. .125	61	—	.89 x 2.14	.570 x 1.64	.180 x .106	.106	3' & 4'	8'	58	8
1 1/2"-No. .081	18	—	1.38 x 3.18	1.094 x 2.63	.144 x .055	.055	3' & 4'	8'	77	12
1 1/2"-No. .125	40	—	1.31 x 3.15	.950 x 2.50	.190 x .106	.106	3' & 4'	8'	71	8

(1) U.S. Standard Gauge for steel products; Brown & Sharp Gauge for aluminum products. All dimensions and weights are approximate.

† Produced on special order only.

Expand-X (continued)

Styles Available	Wt. Lbs. Per 100 Sq. Ft.		Diamond Size SWD x LWD (Inches)	Opening Size SWO x LWO (Inches)	Strand Size Width x Thickness (Inches)	Over-all Thickness (Inches)	Standard Sheet Size		Per Cent Open Area	Gauge Material Used (1)
	Black	Galv.					SWD Width	LWD Length		
Stainless Steel Expand-X										
1/2"-No. 18	73	—	.48 x 1.20	.36 x .41	.082 x .050	.154	3' & 4'	8'	65	18
1/2"-No. 16	91	—	.48 x 1.20	.36 x .48	.082 x .062	.161	3' & 4'	8'	65	16
3/4"-No. 18†	48	—	.83 x 2.00	.72 x 1.66	.101 x .050	.176	3' & 4'	8'	77	18
3/4"-No. 16	60	—	.83 x 2.00	.67 x 1.66	.101 x .062	.178	3' & 4'	8'	77	16
3/4"-No. 13	91	—	.83 x 2.00	.67 x 1.56	.101 x .093	.192	3' & 4'	8'	77	13
3/4"-No. 9	205	—	.83 x 2.00	.50 x 1.38	.152 x .140	.294	3' & 4'	8'	65	10
1 1/2"-No. 16	45	—	1.33 x 3.00	1.18 x 2.56	.115 x .062	.196	3' & 4'	8'	83	16
1 1/2"-No. 13	68	—	1.33 x 3.00	1.16 x 2.50	.115 x .093	.221	3' & 4'	8'	83	13
1 1/2"-No. 9	137	—	1.33 x 3.00	1.13 x 2.44	.154 x .140	.267	3' & 4'	8'	77	10
Stainless Steel Flattened Expand-X										
1/2"-No. 18	69	—	.48 x 1.26	.30 x 1.03	.093 x .042	.042	3' & 4'	8'	61	18
1/2"-No. 16	86	—	.48 x 1.26	.30 x 1.03	.093 x .052	.052	3' & 4'	8'	61	16
3/4"-No. 18†	46	—	.83 x 2.10	.66 x 1.81	.108 x .042	.042	3' & 4'	8'	74	18
3/4"-No. 16	57	—	.83 x 2.10	.67 x 1.81	.108 x .052	.052	3' & 4'	8'	74	16
3/4"-No. 13	88	—	.83 x 2.10	.58 x 1.78	.108 x .079	.079	3' & 4'	8'	74	13
3/4"-No. 9	198	—	.83 x 2.10	.50 x 1.56	.160 x .119	.119	3' & 4'	8'	61	10
1 1/2"-No. 16	43	—	1.33 x 3.15	1.03 x 2.75	.124 x .052	.052	3' & 4'	8'	81	16
1 1/2"-No. 13	66	—	1.33 x 3.15	1.02 x 2.69	.124 x .079	.079	3' & 4'	8'	81	13
1 1/2"-No. 9	131	—	1.33 x 3.15	.91 x 2.56	.165 x .119	.119	3' & 4'	8'	75	10
Aluminum Expand-X										
1/2"-No. .051	27	—	.51 x 1.20	.375 x .95	.089 x .051	.152	3' & 4'	8'	65	16
1/2"-No. .081	41	—	.51 x 1.20	.375 x .89	.089 x .081	.178	3' & 4'	8'	65	12
3/4"-No. .051	17	—	.88 x 2.00	.700 x 1.64	.104 x .051	.192	3' & 4'	8'	78	16
3/4"-No. .081 (Lt.)	32	—	.88 x 2.00	.700 x 1.64	.122 x .081	.211	3' & 4'	8'	78	12
3/4"-No. .081 (Hvy.)	41	—	.88 x 2.00	.734 x 1.64	.156 x .081	.270	3' & 4'	8'	68	12
3/4"-No. .125	65	—	.88 x 2.00	.650 x 1.50	.160 x .125	.320	3' & 4'	8'	74	8
1 1/2"-No. .081	22	—	1.33 x 3.00	1.200 x 2.56	.128 x .081	.226	3' & 4'	8'	83	12
1 1/2"-No. .125	43	—	1.33 x 3.00	1.130 x 2.40	.160 x .125	.340	3' & 4'	8'	85	8
Aluminum Flattened Expand-X										
1/2"-No. .051	25	—	.51 x 1.25	.328 x 1.00	.091 x .045	.045	3' & 4'	8'	64	16
1/2"-No. .081	39	—	.53 x 1.27	.297 x 1.00	.103 x .067	.067	3' & 4'	8'	59	12
3/4"-No. .051	16	—	.89 x 2.13	.625 x 1.75	.114 x .040	.040	3' & 4'	8'	76	16
3/4"-No. .081 (Lt.)	30	—	.89 x 2.13	.635 x 1.75	.134 x .070	.070	3' & 4'	8'	72	12
3/4"-No. .081 (Hvy.)	39	—	.89 x 2.13	.547 x 1.75	.172 x .070	.070	3' & 4'	8'	63	12
3/4"-No. .125	61	—	.89 x 2.14	.570 x 1.64	.180 x .106	.106	3' & 4'	8'	58	8
1 1/2"-No. .081	18	—	1.38 x 3.18	1.094 x 2.63	.144 x .055	.055	3' & 4'	8'	77	12
1 1/2"-No. .125	40	—	1.31 x 3.15	.950 x 2.50	.190 x .106	.106	3' & 4'	8'	71	8

(1) U.S. Standard Gauge for steel products; Brown & Sharp Gauge for aluminum products. All dimensions and weights are approximate.

† Produced on special order only.

**HARRISON INDUSTRIAL SERVICES INC.**

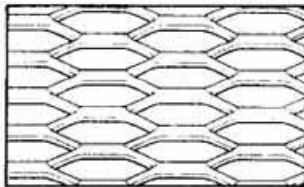
3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEEL

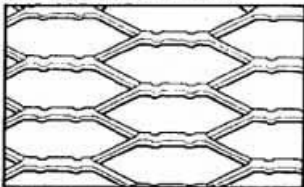
PAGE
35

Grate-X-Flattened-Projection Mesh

Style Designation (Lbs. Per Sq. Ft.)	Diamond Size SWD x LWD (Inches)	Opening Size SWO x LWO (Inches)	Strand Size Width x Thickness (Inches)	Depth (Inches)	Per- cent Open Area	Standard Sheet Size	
						Width (SWD)	Length (LWD)
Carbon Steel Grate-X							
3.0 lb.	1.33 x 5.33	95 x 3.50	264 x .183	7/16	60	4' & 6'	8', 10' & 12'
3.14 lb.	2.00 x 6.00	1.63 x 4.88	312 x .250	11/16	69	4' & 6'	10'
4.0 lb.	1.33 x 5.33	.83 x 3.30	300 x .215	5/8	62	4', 5' & 6'	8' & 10'
4.27 lb.	1.41 x 4.00	1.00 x 2.88	300 x .250	5/8	58	4' & 6'	8' & 10'
5.0 lb.	1.33 x 5.33	.76 x 3.20	.331 x .250	11/16	57	4' & 5'	8' & 10'
6.25 lb.	1.41 x 5.33	.75 x 3.10	.350 x .312	3/4	53	4' & 6'/6'	8'/6' 3"
7.0 lb.	1.41 x 5.33	.69 x 3.05	.391 x .312	3/4	49	4' 7/8"	8' 7/8' 3"
Carbon Steel Flattened Grate-X							
2.8 lb.	1.33 x 5.67	.81 x 4.00	.285 x .160	.160	55	4'	8'
3.75 lb.	1.33 x 5.67	.81 x 4.00	.320 x .190	.190	50	4'	8'
2.95 lb.	2.00 x 6.38	1.31 x 5.50	.340 x .220	.220	64	4'	10'
4.02 lb.	1.41 x 4.25	.75 x 3.50	.315 x .210	.210	53	4'	8'
Aluminum Grate-X—Type 5052							
2.0 lb.	1.33 x 5.33	.61 x 3.20	.387 x .250	3/4	46	4' 5'	8' 7/10"
Carbon Steel Projection Mesh							
1.87 lb.	1.13 x 5.00	.88 x 3.19	.187 x .134	7/16	67	6' 7/4"	10' 7/8' 4"



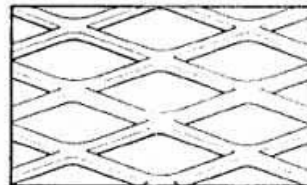
Standard GRATE-X
(3.0#, 4.0#, 5.0#, 6.25#, 7.0#)



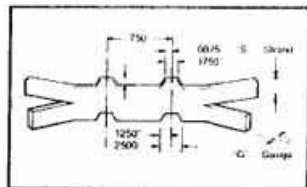
Projection Mesh

Government Specifications
GRATE-X meets all requirements of Military Specifications MIL-M-17194C (Metal, Expanded, Steel) and MIL-G-18015 (Ships) (Gratings, Metal, other than Bar Type), and the deflection requirements of Federal Specification RR-G-1602.

Projection Mesh
 Projection Mesh is a uniquely designed expanded metal with small tooth-like projections on the upper surface of the mesh. The projections provide an excellent non-slip surface. Offered primarily for light to moderate loads on spans of 6" to 24", it is excellent for industrial platforms, maintenance stands, and stair treads where maximum safety is required.



Short Bond GRATE-X (3.14#, 4.27#)



Detail

**HARRISON INDUSTRIAL SERVICES INC.**

3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

SECTION
STEEL

PAGE
36

Decorative Expanded Metal

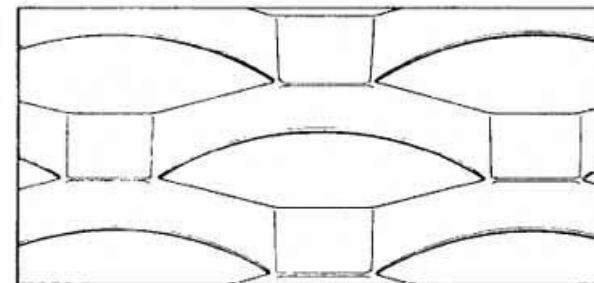
Other decorative styles are available.

Armorweave

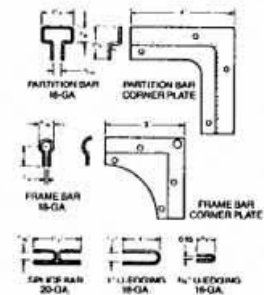
Pattern & Material	Reg. Flat	Style Designation	Design Size SWD x LWD (Inches)	Opening Size SWO x LWO (Inches)	Strand Size Width x Thickness (Inches)	Overall Thickness (Inches)	Standard Sheet Size		Per- cent Open Area	Wt. — Lbs. Per 100 Sq. Ft.
							Width (SWD)	Length (LWD)		
Carbon Steel	R	3/16"-No. 22	30 x 60	.12 x .43	.100 x .030	.120	4'	4'	40	83
		1/2"-No. 20	60 x 120	.41 x .94	.200 x .036	.219	4'	8'	34	100
		1/2"-No. 18	60 x 120	.38 x .94	.200 x .048	.219	4'	8'	34	135
		1/2"-No. 16	60 x 120	.38 x .94	.200 x .060	.219	4'	8'	34	169
		1 1/2"-No. 20 (L)	133 x 300	.71 x 2.26	.500 x .036	.500	4'	8'	25	113
		1 1/2"-No. 20 (H)	150 x 300	.65 x 2.28	.675 x .036	.600	4'	8'	10	135
		1 1/2"-No. 18 (L)	137 x 300	.70 x 2.26	.500 x .048	.540	See Footnote 1	27	146	
		1 1/2"-No. 18 (H)	150 x 300	.65 x 2.10	.675 x .048	.550	See Footnote 1	10	180	
		1 1/2"-No. 16 (L)	137 x 300	.70 x 2.30	.500 x .060	.570	4'	8'	27	183
		1 1/2"-No. 16 (H)	150 x 300	.68 x 2.03	.675 x .060	.550	4'	8'	10	226
Aluminum	R	4"-No. 16 (L)	300 x 800	1.16 x 5.85	1.25 x .059	1.06	4'	8' & 10'	30	208
		4"-No. 16 (H)	282 x 800	.55 x 5.05	1.25 x .059	1.00	4'	8' & 10'	20	224
		3/16"-No. .040	300 x 600	.110 x .410	.100 x .040	.133	4'	4'	37	38
		1/2"-No. .051	60 x 120	.38 x .94	.200 x .051	.219	4'	8'	34	48
		1/2"-No. .081	60 x 120	.35 x .94	.200 x .081	.219	4'	8'	34	77
		1 1/2"-No. .051 (L)	124 x 300	.52 x 2.10	.500 x .051	.500	See Footnote 2	21	59	
		1 1/2"-No. .051 (H)	147 x 300	.40 x 2.00	.675 x .051	.470	See Footnote 2	10	67	
		1 1/2"-No. .081 (L)	126 x 300	.52 x 2.10	.500 x .081	.530	See Footnote 1	23	91	
		1 1/2"-No. .081 (H)	146 x 300	.43 x 2.00	.675 x .081	.520	See Footnote 1	10	106	
		4"-No. .051 (L)	300 x 800	.76 x 6.25	1.25 x .051	1.020	4'	8'	25	61
4"-No. .051 (H)	282 x 800	.51 x 5.65	1.25 x .051	.900	4'	8'	18	65		
4"-No. .081 (L)	300 x 800	1.25 x 6.00	1.25 x .081	1.187	4'	8' & 10'	20	96		
4"-No. .081 (H)	282 x 800	.50 x 5.30	1.25 x .081	1.00	4'	8' & 10"	18	103		

Footnote 1: Sheet Sizes are 4' x 8', 6' x 8', and 6' x 6' 3".

Footnote 2: Sheet Sizes are 4' x 8', 6' x 8', 6' x 6' 3", and 8' x 4'.



Armorweave



Edging Accessories
 Available in 10 foot lengths



HARRISON INDUSTRIAL SERVICES INC.
 3377 Deer Valley Road #163, Antioch, California 94531
 Tel 1-888-212-6095
 Fax 1-888-212-6095
 Email info@harrison-isi.com
 Web www.harrison-isi.com

**SECTION
STEEL**

**PAGE
37**

Ornamesh

Carbon Steel and Aluminum

	Lbs./Sq. Ft.	Size of Openings		Bond to Bond		Strand Size		% Open Area	Overall Thickness
		SWD	LWD	SWD	LWD	Thick	Width		
$\frac{3}{16}$	2.69	1.25	6.125	1.5	5.33	.183	264	65	528
10 Gauge	1.98	1.25	6.125	1.5	5.33	.134	264	65	528
Aluminum	0.630	1.25	6.125	1.5	5.33	.125	264	65	528

Available in 36 - 96, 48 - 96, 72 - 96

