

Wide Flange Beams

AISC W shapes. Dimensions are AISC detailing values to the nearest 1/16 in. Workable gage is the AISC bolt gage across the flange; 3-7 1/2-3 means four bolts across.

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
W4						
W4x13	13	4 1/8	4	2 1/4	3/8	1/4
W5						
W5x16	16	5	5	2 3/4	3/8	1/4
W5x19	19	5 1/8	5	2 3/4	7/16	1/4
W6						
W6x9	9	5 7/8	4	2 1/4	3/16	3/16
W6x12	12	6	4	2 1/4	1/4	1/4
W6x16	16	6 1/4	4	2 1/4	3/8	1/4
W6x15	15	6	6	3 1/2	1/4	1/4
W6x20	20	6 1/4	6	3 1/2	3/8	1/4
W6x25	25	6 3/8	6 1/8	3 1/2	7/16	5/16
W8						
W8x10	10	7 7/8	4	2 1/4	3/16	3/16
W8x13	13	8	4	2 1/4	1/4	1/4
W8x15	15	8 1/8	4	2 1/4	5/16	1/4
W8x18	18	8 1/8	5 1/4	2 3/4	5/16	1/4
W8x21	21	8 1/4	5 1/4	2 3/4	3/8	1/4
W8x24	24	7 7/8	6 1/2	4	3/8	1/4
W8x28	28	8	6 1/2	4	7/16	5/16
W8x31	31	8	8	5 1/2	7/16	5/16
W8x35	35	8 1/8	8	5 1/2	1/2	5/16
W8x40	40	8 1/4	8 1/8	5 1/2	9/16	3/8
W8x48	48	8 1/2	8 1/8	5 1/2	11/16	3/8
W8x58	58	8 3/4	8 1/4	5 1/2	13/16	1/2
W8x67	67	9	8 1/4	5 1/2	15/16	9/16
W10						
W10x12	12	9 7/8	4	2 1/4	3/16	3/16
W10x15	15	10	4	2 1/4	1/4	1/4
W10x17	17	10 1/8	4	2 1/4	5/16	1/4
W10x19	19	10 1/4	4	2 1/4	3/8	1/4
W10x22	22	10 1/8	5 3/4	2 3/4	3/8	1/4
W10x26	26	10 3/8	5 3/4	2 3/4	7/16	1/4
W10x30	30	10 1/2	5 3/4	2 3/4	1/2	5/16
W10x33	33	9 3/4	8	5 1/2	7/16	5/16
W10x39	39	9 7/8	8	5 1/2	1/2	5/16
W10x45	45	10 1/8	8	5 1/2	5/8	3/8
W10x49	49	10	10	5 1/2	9/16	5/16
W10x54	54	10 1/8	10	5 1/2	5/8	3/8
W10x60	60	10 1/4	10 1/8	5 1/2	11/16	7/16
W10x68	68	10 3/8	10 1/8	5 1/2	3/4	1/2
W10x77	77	10 5/8	10 1/4	5 1/2	7/8	1/2
W10x88	88	10 7/8	10 1/4	5 1/2	1	5/8
W10x100	100	11 1/8	10 3/8	5 1/2	1 1/8	11/16
W10x112	112	11 3/8	10 3/8	5 1/2	1 1/4	3/4
W12						
W12x14	14	11 7/8	4	2 1/4	1/4	3/16
W12x16	16	12	4	2 1/4	1/4	1/4
W12x19	19	12 1/8	4	2 1/4	3/8	1/4
W12x22	22	12 1/4	4	2 1/4	7/16	1/4
W12x26	26	12 1/4	6 1/2	3 1/2	3/8	1/4
W12x30	30	12 3/8	6 1/2	3 1/2	7/16	1/4

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
W12x35	35	12 1/2	6 1/2	3 1/2	1/2	5/16
W12x40	40	12	8	5 1/2	1/2	5/16
W12x45	45	12	8	5 1/2	9/16	5/16
W12x50	50	12 1/4	8 1/8	5 1/2	5/8	3/8
W12x53	53	12	10	5 1/2	9/16	3/8
W12x58	58	12 1/4	10	5 1/2	5/8	3/8
W12x65	65	12 1/8	12	5 1/2	5/8	3/8
W12x72	72	12 1/4	12	5 1/2	11/16	7/16
W12x79	79	12 3/8	12 1/8	5 1/2	3/4	1/2
W12x87	87	12 1/2	12 1/8	5 1/2	13/16	1/2
W12x96	96	12 3/4	12 1/8	5 1/2	7/8	9/16
W12x106	106	12 7/8	12 1/4	5 1/2	1	5/8
W12x120	120	13 1/8	12 3/8	5 1/2	1 1/8	11/16
W12x136	136	13 3/8	12 3/8	5 1/2	1 1/4	13/16
W12x152	152	13 3/4	12 1/2	5 1/2	1 3/8	7/8
W12x170	170	14	12 5/8	5 1/2	1 9/16	15/16
W12x190	190	14 3/8	12 5/8	5 1/2	1 3/4	1 1/16
W12x210	210	14 3/4	12 3/4	5 1/2	1 7/8	1 3/16
W12x230	230	15	12 7/8	5 1/2	2 1/16	1 5/16
W12x252	252	15 3/8	13	5 1/2	2 1/4	1 3/8
W12x279	279	15 7/8	13 1/8	5 1/2	2 1/2	1 1/2
W12x305	305	16 3/8	13 1/4	5 1/2	2 11/16	1 5/8
W12x336	336	16 7/8	13 3/8	5 1/2	2 15/16	1 3/4
W14						
W14x22	22	13 3/4	5	2 3/4	5/16	1/4
W14x26	26	13 7/8	5	2 3/4	7/16	1/4
W14x30	30	13 7/8	6 3/4	3 1/2	3/8	1/4
W14x34	34	14	6 3/4	3 1/2	7/16	5/16
W14x38	38	14 1/8	6 3/4	3 1/2	1/2	5/16
W14x43	43	13 5/8	8	5 1/2	1/2	5/16
W14x48	48	13 3/4	8	5 1/2	5/8	5/16
W14x53	53	13 7/8	8	5 1/2	11/16	3/8
W14x61	61	13 7/8	10	5 1/2	5/8	3/8
W14x68	68	14	10	5 1/2	3/4	7/16
W14x74	74	14 1/8	10 1/8	5 1/2	13/16	7/16
W14x82	82	14 1/4	10 1/8	5 1/2	7/8	1/2
W14x90	90	14	14 1/2	5 1/2	11/16	7/16
W14x99	99	14 1/8	14 5/8	5 1/2	3/4	1/2
W14x109	109	14 3/8	14 5/8	5 1/2	7/8	1/2
W14x120	120	14 1/2	14 5/8	5 1/2	15/16	9/16
W14x132	132	14 5/8	14 3/4	5 1/2	1	5/8
W14x145	145	14 3/4	15 1/2	3-7 1/2-3	1 1/16	11/16
W14x159	159	15	15 5/8	3-7 1/2-3	1 3/16	3/4
W14x176	176	15 1/4	15 5/8	3-7 1/2-3	1 5/16	13/16
W14x193	193	15 1/2	15 3/4	3-7 1/2-3	1 7/16	7/8
W14x211	211	15 3/4	15 3/4	3-7 1/2-3	1 9/16	1
W14x233	233	16	15 7/8	3-7 1/2-3	1 3/4	1 1/16
W14x257	257	16 3/8	16	3-7 1/2-3	1 7/8	1 3/16
W14x283	283	16 3/4	16 1/8	3-7 1/2-3	2 1/16	1 5/16
W14x311	311	17 1/8	16 1/4	3-7 1/2-3	2 1/4	1 7/16
W14x342	342	17 1/2	16 3/8	3-7 1/2-3	2 1/2	1 9/16
W14x370	370	17 7/8	16 1/2	3-7 1/2-3	2 11/16	1 11/16
W14x398	398	18 1/4	16 5/8	3-7 1/2-3	2 7/8	1 3/4
W14x426	426	18 5/8	16 3/4	3-7 1/2-3	3 1/16	1 7/8

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
W16						
W16x26	26	15 3/4	5 1/2	3 1/2	3/8	1/4
W16x31	31	15 7/8	5 1/2	3 1/2	7/16	1/4
W16x36	36	15 7/8	7	3 1/2	7/16	5/16
W16x40	40	16	7	3 1/2	1/2	5/16
W16x45	45	16 1/8	7	3 1/2	9/16	3/8
W16x50	50	16 1/4	7 1/8	3 1/2	5/8	3/8
W16x57	57	16 3/8	7 1/8	3 1/2	11/16	7/16
W16x67	67	16 3/8	10 1/4	5 1/2	11/16	3/8
W16x77	77	16 1/2	10 1/4	5 1/2	3/4	7/16
W16x89	89	16 3/4	10 3/8	5 1/2	7/8	1/2
W16x100	100	17	10 3/8	5 1/2	1	9/16
W18						
W18x35	35	17 3/4	6	3 1/2	7/16	5/16
W18x40	40	17 7/8	6	3 1/2	1/2	5/16
W18x46	46	18	6	3 1/2	5/8	3/8
W18x50	50	18	7 1/2	3 1/2	9/16	3/8
W18x55	55	18 1/8	7 1/2	3 1/2	5/8	3/8
W18x60	60	18 1/4	7 1/2	3 1/2	11/16	7/16
W18x65	65	18 3/8	7 5/8	3 1/2	3/4	7/16
W18x71	71	18 1/2	7 5/8	3 1/2	13/16	1/2
W18x76	76	18 1/4	11	5 1/2	11/16	7/16
W18x86	86	18 3/8	11 1/8	5 1/2	3/4	1/2
W18x97	97	18 5/8	11 1/8	5 1/2	7/8	9/16
W18x106	106	18 3/4	11 1/4	5 1/2	15/16	9/16
W18x119	119	19	11 1/4	5 1/2	1 1/16	5/8
W18x130	130	19 1/4	11 1/8	5 1/2	1 3/16	11/16
W18x143	143	19 1/2	11 1/4	5 1/2	1 5/16	3/4
W18x158	158	19 3/4	11 1/4	5 1/2	1 7/16	13/16
W18x175	175	20	11 3/8	5 1/2	1 9/16	7/8
W18x192	192	20 3/8	11 1/2	5 1/2	1 3/4	15/16
W18x211	211	20 5/8	11 1/2	5 1/2	1 15/16	1 1/16
W18x234	234	21	11 5/8	5 1/2	2 1/8	1 3/16
W18x258	258	21 1/2	11 3/4	5 1/2	2 5/16	1 1/4
W18x283	283	21 7/8	11 7/8	5 1/2	2 1/2	1 3/8
W18x311	311	22 3/8	12	5 1/2	2 3/4	1 1/2
W21						
W21x44	44	20 5/8	6 1/2	3 1/2	7/16	3/8
W21x48	48	20 5/8	8 1/8	5 1/2	7/16	3/8
W21x50	50	20 7/8	6 1/2	3 1/2	9/16	3/8
W21x55	55	20 3/4	8 1/4	5 1/2	1/2	3/8
W21x57	57	21	6 1/2	3 1/2	5/8	3/8
W21x62	62	21	8 1/4	5 1/2	5/8	3/8
W21x68	68	21 1/8	8 1/4	5 1/2	11/16	7/16
W21x73	73	21 1/4	8 1/4	5 1/2	3/4	7/16
W21x83	83	21 3/8	8 3/8	5 1/2	13/16	1/2
W21x93	93	21 5/8	8 3/8	5 1/2	15/16	9/16
W21x101	101	21 3/8	12 1/4	5 1/2	13/16	1/2
W21x111	111	21 1/2	12 3/8	5 1/2	7/8	9/16
W21x122	122	21 5/8	12 3/8	5 1/2	15/16	5/8
W21x132	132	21 7/8	12 1/2	5 1/2	1 1/16	5/8
W21x147	147	22	12 1/2	5 1/2	1 1/8	3/4
W21x166	166	22 1/2	12 3/8	5 1/2	1 3/8	3/4
W21x182	182	22 3/4	12 1/2	5 1/2	1 1/2	13/16
W21x201	201	23	12 5/8	5 1/2	1 5/8	15/16

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
W24						
W24x55	55	23 5/8	7	3 1/2	1/2	3/8
W24x62	62	23 3/4	7	3 1/2	9/16	7/16
W24x68	68	23 3/4	9	5 1/2	9/16	7/16
W24x76	76	23 7/8	9	5 1/2	11/16	7/16
W24x84	84	24 1/8	9	5 1/2	3/4	1/2
W24x94	94	24 1/4	9 1/8	5 1/2	7/8	1/2
W24x103	103	24 1/2	9	5 1/2	1	9/16
W24x104	104	24	12 3/4	5 1/2	3/4	1/2
W24x117	117	24 1/4	12 3/4	5 1/2	7/8	9/16
W24x131	131	24 1/2	12 7/8	5 1/2	15/16	5/8
W24x146	146	24 3/4	12 7/8	5 1/2	1 1/16	5/8
W24x162	162	25	13	5 1/2	1 1/4	11/16
W24x176	176	25 1/4	12 7/8	5 1/2	1 5/16	3/4
W24x192	192	25 1/2	13	5 1/2	1 7/16	13/16
W24x207	207	25 3/4	13	5 1/2	1 9/16	7/8
W24x229	229	26	13 1/8	5 1/2	1 3/4	15/16
W24x250	250	26 3/8	13 1/8	5 1/2	1 7/8	1 1/16
W24x279	279	26 3/4	13 1/4	5 1/2	2 1/16	1 3/16
W24x306	306	27 1/8	13 3/8	5 1/2	2 1/4	1 1/4
W24x335	335	27 1/2	13 1/2	5 1/2	2 1/2	1 3/8
W24x370	370	28	13 5/8	5 1/2	2 3/4	1 1/2
W27						
W27x84	84	26 3/4	10	5 1/2	5/8	7/16
W27x94	94	26 7/8	10	5 1/2	3/4	1/2
W27x102	102	27 1/8	10	5 1/2	13/16	1/2
W27x114	114	27 1/4	10 1/8	5 1/2	15/16	9/16
W27x129	129	27 5/8	10	5 1/2	1 1/8	5/8
W27x146	146	27 3/8	14	5 1/2	1	5/8
W27x161	161	27 5/8	14	5 1/2	1 1/16	11/16
W27x178	178	27 3/4	14 1/8	5 1/2	1 3/16	3/4
W27x194	194	28 1/8	14	5 1/2	1 5/16	3/4
W27x217	217	28 3/8	14 1/8	5 1/2	1 1/2	13/16
W27x235	235	28 5/8	14 1/4	5 1/2	1 5/8	15/16
W27x258	258	29	14 1/4	5 1/2	1 3/4	1
W27x281	281	29 1/4	14 3/8	5 1/2	1 15/16	1 1/16
W27x307	307	29 5/8	14 1/2	5 1/2	2 1/16	1 3/16
W27x336	336	30	14 1/2	5 1/2	2 1/4	1 1/4
W27x368	368	30 3/8	14 5/8	5 1/2	2 1/2	1 3/8
W30						
W30x90	90	29 1/2	10 3/8	5 1/2	5/8	1/2
W30x99	99	29 5/8	10 1/2	5 1/2	11/16	1/2
W30x108	108	29 7/8	10 1/2	5 1/2	3/4	9/16
W30x116	116	30	10 1/2	5 1/2	7/8	9/16
W30x124	124	30 1/8	10 1/2	5 1/2	15/16	9/16
W30x132	132	30 1/4	10 1/2	5 1/2	1	5/8
W30x148	148	30 5/8	10 1/2	5 1/2	1 3/16	5/8
W30x173	173	30 1/2	15	5 1/2	1 1/16	5/8
W30x191	191	30 5/8	15	5 1/2	1 3/16	11/16
W30x211	211	31	15 1/8	5 1/2	1 5/16	3/4
W30x235	235	31 1/4	15	5 1/2	1 1/2	13/16
W30x261	261	31 5/8	15 1/8	5 1/2	1 5/8	15/16
W30x292	292	32	15 1/4	5 1/2	1 7/8	1
W30x326	326	32 3/8	15 3/8	5 1/2	2 1/16	1 1/8
W30x357	357	32 3/4	15 1/2	5 1/2	2 1/4	1 1/4
W30x391	391	33 1/4	15 5/8	5 1/2	2 7/16	1 3/8

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
W33						
W33x118	118	32 7/8	11 1/2	5 1/2	3/4	9/16
W33x130	130	33 1/8	11 1/2	5 1/2	7/8	9/16
W33x141	141	33 1/4	11 1/2	5 1/2	15/16	5/8
W33x152	152	33 1/2	11 5/8	5 1/2	1 1/16	5/8
W33x169	169	33 7/8	11 1/2	5 1/2	1 1/4	11/16
W33x201	201	33 5/8	15 3/4	5 1/2	1 1/8	11/16
W33x221	221	33 7/8	15 3/4	5 1/2	1 1/4	3/4
W33x241	241	34 1/8	15 7/8	5 1/2	1 3/8	13/16
W33x263	263	34 1/2	15 3/4	5 1/2	1 9/16	7/8
W33x291	291	34 7/8	15 7/8	5 1/2	1 3/4	15/16
W33x318	318	35 1/8	16	5 1/2	1 7/8	1 1/16
W33x354	354	35 1/2	16 1/8	5 1/2	2 1/16	1 3/16
W33x387	387	36	16 1/4	5 1/2	2 1/4	1 1/4
W36						
W36x135	135	35 1/2	12	5 1/2	13/16	5/8
W36x150	150	35 7/8	12	5 1/2	15/16	5/8
W36x160	160	36	12	5 1/2	1	5/8
W36x170	170	36 1/8	12	5 1/2	1 1/8	11/16
W36x182	182	36 3/8	12 1/8	5 1/2	1 3/16	3/4
W36x194	194	36 1/2	12 1/8	5 1/2	1 1/4	3/4
W36x210	210	36 3/4	12 1/8	5 1/2	1 3/8	13/16
W36x231	231	36 1/2	16 1/2	7 1/2	1 1/4	3/4
W36x232	232	37 1/8	12 1/8	5 1/2	1 9/16	7/8
W36x247	247	36 5/8	16 1/2	7 1/2	1 3/8	13/16
W36x256	256	37 3/8	12 1/4	5 1/2	1 3/4	15/16
W36x262	262	36 7/8	16 1/2	7 1/2	1 7/16	13/16
W36x282	282	37 1/8	16 5/8	7 1/2	1 9/16	7/8
W36x302	302	37 3/8	16 5/8	7 1/2	1 11/16	15/16
W36x330	330	37 5/8	16 5/8	7 1/2	1 7/8	1
W36x361	361	38	16 3/4	7 1/2	2	1 1/8
W36x395	395	38 3/8	16 7/8	7 1/2	2 3/16	1 1/4
W36x441	441	38 7/8	17	7 1/2	2 7/16	1 3/8
W40						
W40x149	149	38 1/4	11 3/4	7 1/2	13/16	5/8
W40x167	167	38 5/8	11 3/4	7 1/2	1	5/8
W40x183	183	39	11 3/4	7 1/2	1 3/16	5/8
W40x199	199	38 5/8	15 3/4	7 1/2	1 1/16	5/8
W40x211	211	39 3/8	11 3/4	7 1/2	1 7/16	3/4
W40x215	215	39	15 3/4	7 1/2	1 1/4	5/8
W40x235	235	39 3/4	11 7/8	7 1/2	1 9/16	13/16
W40x249	249	39 3/8	15 3/4	7 1/2	1 7/16	3/4
W40x264	264	40	11 7/8	7 1/2	1 3/4	15/16
W40x277	277	39 3/4	15 7/8	7 1/2	1 9/16	13/16
W40x294	294	40 3/8	12	7 1/2	1 15/16	1 1/16
W40x297	297	39 7/8	15 7/8	7 1/2	1 5/8	15/16
W40x324	324	40 1/8	15 7/8	7 1/2	1 13/16	1
W40x327	327	40 3/4	12 1/8	7 1/2	2 1/8	1 3/16
W40x362	362	40 1/2	16	7 1/2	2	1 1/8
W40x372	372	40 5/8	16 1/8	7 1/2	2 1/16	1 3/16
W40x397	397	41	16 1/8	7 1/2	2 3/16	1 1/4

I-Beams (American Standard)

AISC S shapes. Flange thickness is the average of the tapered flange. Workable gage is the AISC bolt gage across the flange; 3-7 1/2-3 means four bolts across.

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
S3 I-beam						
S3x5.7	5.7	3	2 3/8	—	1/4	3/16
S3x7.5	7.5	3	2 1/2	—	1/4	3/8
S4 I-beam						
S4x7.7	7.7	4	2 5/8	—	5/16	3/16
S4x9.5	9.5	4	2 3/4	—	5/16	5/16
S5 I-beam						
S5x10	10	5	3	—	5/16	3/16
S5x14.75	14.75	5	3 1/4	—	5/16	1/2
S6 I-beam						
S6x12.5	12.5	6	3 3/8	—	3/8	1/4
S6x17.25	17.25	6	3 5/8	—	3/8	7/16
S7 I-beam						
S7x15.3	15.3	7	3 11/16	—	3/8	1/4
S7x20	20	7	3 7/8	—	3/8	7/16
S8 I-beam						
S8x18.4	18.4	8	4	2 1/4	7/16	1/4
S8x23	23	8	4 1/8	2 1/4	7/16	7/16
S10 I-beam						
S10x25.4	25.4	10	4 5/8	2 3/4	1/2	5/16
S10x35	35	10	5	2 3/4	1/2	5/8
S12 I-beam						
S12x31.8	31.8	12	5	3	9/16	3/8
S12x35	35	12	5 1/8	3	9/16	7/16
S12x40.8	40.8	12	5 1/4	3	11/16	7/16
S12x50	50	12	5 1/2	3	11/16	11/16
S15 I-beam						
S15x42.9	42.9	15	5 1/2	3 1/2	5/8	7/16
S15x50	50	15	5 5/8	3 1/2	5/8	9/16
S18 I-beam						
S18x54.7	54.7	18	6	3 1/2	11/16	7/16
S18x70	70	18	6 1/4	3 1/2	11/16	11/16
S20 I-beam						
S20x66	66	20	6 1/4	3 1/2	13/16	1/2
S20x75	75	20	6 3/8	3 1/2	13/16	5/8
S20x86	86	20 1/4	7	4	15/16	11/16
S20x96	96	20 1/4	7 1/4	4	15/16	13/16
S24 I-beam						
S24x80	80	24	7	4	7/8	1/2
S24x90	90	24	7 1/8	4	7/8	5/8
S24x100	100	24	7 1/4	4	7/8	3/4
S24x106	106	24 1/2	7 7/8	4	1 1/16	5/8
S24x121	121	24 1/2	8	4	1 1/16	13/16

Junior Beams

AISC M shapes (light junior beams).

Size	Wt lb/ft	Depth in.	Flange width	Flange thk	Web thk
M6					
M6x4.4	4.4	6	1 7/8	3/16	1/8
M8					
M8x6.5	6.5	8	2 1/4	3/16	1/8
M10					
M10x9	9	10	2 3/4	3/16	3/16
M12					
M12x11.8	11.8	12	3 1/8	1/4	3/16

Channels

C = American Standard channel, MC = miscellaneous channel. Flange thickness is average. Workable gage is the AISC bolt gage across the flange; 3-7 1/2-3 means four bolts across.

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
3" channels						
C3x4.1	4.1	3	1 3/8	—	1/4	3/16
C3x5	5	3	1 1/2	—	1/4	1/4
C3x6	6	3	1 5/8	—	1/4	3/8
MC3x7.1	7.1	3	2	—	3/8	5/16
4" channels						
C4x5.4	5.4	4	1 5/8	—	5/16	3/16
C4x7.25	7.25	4	1 3/4	1	5/16	5/16
MC4x13.8	13.8	4	2 1/2	—	1/2	1/2
5" channels						
C5x6.7	6.7	5	1 3/4	—	5/16	3/16
C5x9	9	5	1 7/8	1 1/8	5/16	5/16
6" channels						
C6x8.2	8.2	6	1 7/8	1 1/8	5/16	3/16
C6x10.5	10.5	6	2	1 1/8	5/16	5/16
MC6x12	12	6	2 1/2	1 1/2	3/8	5/16
C6x13	13	6	2 1/8	1 3/8	5/16	7/16
MC6x15.1	15.1	6	3	1 3/4	1/2	5/16
MC6x15.3	15.3	6	3 1/2	2	3/8	5/16
MC6x16.3	16.3	6	3	1 3/4	1/2	3/8
MC6x18	18	6	3 1/2	2	1/2	3/8
7" channels						
C7x9.8	9.8	7	2 1/8	1 1/4	3/8	3/16
C7x12.25	12.25	7	2 1/4	1 1/4	3/8	5/16
MC7x19.1	19.1	7	3 1/2	2	1/2	3/8
MC7x22.7	22.7	7	3 5/8	2	1/2	1/2
8" channels						
MC8x8.5	8.5	8	1 7/8	1 1/8	5/16	3/16
C8x11.5	11.5	8	2 1/4	1 3/8	3/8	1/4
C8x13.75	13.75	8	2 3/8	1 3/8	3/8	5/16
MC8x18.7	18.7	8	3	2	1/2	3/8
C8x18.75	18.75	8	2 1/2	1 1/2	3/8	1/2
MC8x20	20	8	3	2	1/2	3/8
MC8x21.4	21.4	8	3 1/2	2	1/2	3/8
MC8x22.8	22.8	8	3 1/2	2	1/2	7/16
9" channels						
C9x13.4	13.4	9	2 3/8	1 3/8	7/16	1/4
C9x15	15	9	2 1/2	1 3/8	7/16	5/16

Size	Wt lb/ft	Depth in.	Flange width	Workable gage	Flange thk	Web thk
C9x20	20	9	2 5/8	1 1/2	7/16	7/16
MC9x23.9	23.9	9	3 1/2	2	9/16	3/8
MC9x25.4	25.4	9	3 1/2	2	9/16	7/16
10" channels						
C10x15.3	15.3	10	2 5/8	1 1/2	7/16	1/4
C10x20	20	10	2 3/4	1 1/2	7/16	3/8
MC10x22	22	10	3 3/8	2	9/16	5/16
C10x25	25	10	2 7/8	1 3/4	7/16	1/2
MC10x25	25	10	3 3/8	2	9/16	3/8
MC10x28.5	28.5	10	4	2 1/2	9/16	7/16
C10x30	30	10	3	1 3/4	7/16	11/16
MC10x33.6	33.6	10	4 1/8	2 1/2	9/16	9/16
MC10x41.1	41.1	10	4 3/8	2 1/2	9/16	13/16
12" channels						
C12x20.7	20.7	12	3	1 3/4	1/2	5/16
C12x25	25	12	3	1 3/4	1/2	3/8
C12x30	30	12	3 1/8	1 3/4	1/2	1/2
MC12x31	31	12	3 5/8	2 1/4	11/16	3/8
MC12x35	35	12	3 3/4	2 1/2	11/16	7/16
MC12x40	40	12	3 7/8	2 1/2	11/16	9/16
MC12x45	45	12	4	2 1/2	11/16	11/16
MC12x50	50	12	4 1/8	2 1/2	11/16	13/16
13" channels						
MC13x31.8	31.8	13	4	2 1/2	5/8	3/8
MC13x50	50	13	4 3/8	2 1/2	5/8	13/16
15" channels						
C15x33.9	33.9	15	3 3/8	2	5/8	3/8
C15x40	40	15	3 1/2	2	5/8	1/2
C15x50	50	15	3 3/4	2 1/4	5/8	11/16
18" channels						
MC18x42.7	42.7	18	4	2 1/2	5/8	7/16
MC18x45.8	45.8	18	4	2 1/2	5/8	1/2
MC18x51.9	51.9	18	4 1/8	2 1/2	5/8	5/8
MC18x58	58	18	4 1/4	2 1/2	5/8	11/16

Junior Channels

Light MC shapes.

Size	Wt lb/ft	Depth in.	Flange width	Flange thk	Web thk
MC10					
MC10x6.5	6.5	10	1 1/8	3/16	1/8
MC10x8.4	8.4	10	1 1/2	1/4	3/16
MC12					
MC12x10.6	10.6	12	1 1/2	5/16	3/16

Bar Size Channels

Size (depth x flange x thk)	Wt lb/ft
1 x 1/2 x 1/8	0.82
1 1/4 x 1/2 x 1/8	1.00
1 1/2 x 1/2 x 1/8	1.12
2 x 5/8 x 1/4	2.29
2 x 1 x 1/8	1.78
2 x 1 x 3/16	2.32

Angles

Equal and unequal leg angles. Weight = leg x leg x thickness at 490 lb/ft³.

Legs (in.)	Thickness	Wt lb/ft
1/2 x 1/2 angle		
1/2 x 1/2	1/8	0.37
3/4 x 3/4 angle		
3/4 x 3/4	1/8	0.58
1 x 1 angle		
1 x 1	1/8	0.80
1 x 1	3/16	1.16
1 x 1	1/4	1.49
1 1/4 x 1 1/4 angle		
1 1/4 x 1 1/4	1/8	1.01
1 1/4 x 1 1/4	3/16	1.48
1 1/4 x 1 1/4	1/4	1.91
1 1/2 x 1 1/2 angle		
1 1/2 x 1 1/2	1/8	1.22
1 1/2 x 1 1/2	3/16	1.79
1 1/2 x 1 1/2	1/4	2.34
1 3/4 x 1 3/4 angle		
1 3/4 x 1 3/4	1/8	1.44
1 3/4 x 1 3/4	3/16	2.11
1 3/4 x 1 3/4	1/4	2.76
2 x 1 1/2 angle		
2 x 1 1/2	1/8	1.44
2 x 1 1/2	3/16	2.11
2 x 1 1/2	1/4	2.76
2 x 2 angle		
2 x 2	1/8	1.65
2 x 2	3/16	2.43
2 x 2	1/4	3.19
2 x 2	5/16	3.92
2 x 2	3/8	4.63
2 1/2 x 2 angle		
2 1/2 x 2	3/16	2.75
2 1/2 x 2	1/4	3.62
2 1/2 x 2	3/8	5.26
2 1/2 x 2 1/2 angle		
2 1/2 x 2 1/2	3/16	3.07
2 1/2 x 2 1/2	1/4	4.04
2 1/2 x 2 1/2	5/16	4.98
2 1/2 x 2 1/2	3/8	5.90
3 x 2 angle		
3 x 2	3/16	3.07
3 x 2	1/4	4.04
3 x 2	5/16	4.98
3 x 2	3/8	5.90
3 x 2 1/2 angle		
3 x 2 1/2	3/16	3.39
3 x 2 1/2	1/4	4.47
3 x 2 1/2	5/16	5.52
3 x 2 1/2	3/8	6.54
3 x 3 angle		
3 x 3	3/16	3.71
3 x 3	1/4	4.89
3 x 3	5/16	6.05
3 x 3	3/8	7.18

Legs (in.)	Thickness	Wt lb/ft
3 x 3		
3 x 3	1/2	9.36
3 1/2 x 2 1/2 angle		
3 1/2 x 2 1/2	1/4	4.89
3 1/2 x 2 1/2	5/16	6.05
3 1/2 x 2 1/2	3/8	7.18
3 1/2 x 2 1/2	1/2	9.36
3 1/2 x 3 angle		
3 1/2 x 3	1/4	5.32
3 1/2 x 3	5/16	6.58
3 1/2 x 3	3/8	7.82
3 1/2 x 3	1/2	10.21
3 1/2 x 3 1/2 angle		
3 1/2 x 3 1/2	1/4	5.74
3 1/2 x 3 1/2	5/16	7.11
3 1/2 x 3 1/2	3/8	8.45
3 1/2 x 3 1/2	1/2	11.06
4 x 3 angle		
4 x 3	1/4	5.74
4 x 3	5/16	7.11
4 x 3	3/8	8.45
4 x 3	1/2	11.06
4 x 3 1/2 angle		
4 x 3 1/2	1/4	6.17
4 x 3 1/2	5/16	7.64
4 x 3 1/2	3/8	9.09
4 x 3 1/2	1/2	11.91
4 x 4 angle		
4 x 4	1/4	6.59
4 x 4	5/16	8.17
4 x 4	3/8	9.73
4 x 4	1/2	12.76
4 x 4	5/8	15.68
4 x 4	3/4	18.50
5 x 3 angle		
5 x 3	1/4	6.59
5 x 3	5/16	8.17
5 x 3	3/8	9.73
5 x 3	1/2	12.76
5 x 3 1/2 angle		
5 x 3 1/2	1/4	7.02
5 x 3 1/2	5/16	8.71
5 x 3 1/2	3/8	10.37
5 x 3 1/2	1/2	13.61
5 x 3 1/2	3/4	19.78
5 x 5 angle		
5 x 5	5/16	10.30
5 x 5	3/8	12.28
5 x 5	1/2	16.16
5 x 5	5/8	19.94
5 x 5	3/4	23.61
5 x 5	7/8	27.17
6 x 3 1/2 angle		
6 x 3 1/2	1/4	7.87
6 x 3 1/2	5/16	9.77
6 x 3 1/2	3/8	11.64
6 x 3 1/2	1/2	15.31

Legs (in.)	Thickness	Wt lb/ft
6 x 4 angle		
6 x 4	5/16	10.30
6 x 4	3/8	12.28
6 x 4	1/2	16.16
6 x 4	5/8	19.94
6 x 4	3/4	23.61
6 x 6 angle		
6 x 6	5/16	12.43
6 x 6	3/8	14.83
6 x 6	1/2	19.57
6 x 6	5/8	24.19
6 x 6	3/4	28.71
6 x 6	1	37.43
7 x 4 angle		
7 x 4	3/8	13.56
7 x 4	1/2	17.86
7 x 4	3/4	26.16
8 x 4 angle		
8 x 4	1/2	19.57
8 x 4	3/4	28.71
8 x 4	1	37.43
8 x 6 angle		
8 x 6	1/2	22.97
8 x 6	3/4	33.82
8 x 6	1	44.24
8 x 8 angle		
8 x 8	1/2	26.37
8 x 8	5/8	32.70
8 x 8	3/4	38.92
8 x 8	1	51.04

Square Tubing

Nominal wall, corner radius 2 x wall (ASTM A500 basis).

Size (in.)	Wall	Wall dec.	Wt lb/ft
2 x 2 square tube			
2 x 2	3/16	.1875	4.32
2 x 2	1/4	.2500	5.41
2 1/2 x 2 1/2 square tube			
2 1/2 x 2 1/2	3/16	.1875	5.59
2 1/2 x 2 1/2	1/4	.2500	7.11
3 x 3 square tube			
3 x 3	3/16	.1875	6.87
3 x 3	1/4	.2500	8.81
3 x 3	5/16	.3125	10.58
3 1/2 x 3 1/2 square tube			
3 1/2 x 3 1/2	3/16	.1875	8.15
3 1/2 x 3 1/2	1/4	.2500	10.51
3 1/2 x 3 1/2	5/16	.3125	12.70
4 x 4 square tube			
4 x 4	3/16	.1875	9.42
4 x 4	1/4	.2500	12.21
4 x 4	5/16	.3125	14.83
4 x 4	3/8	.3750	17.27
4 x 4	1/2	.5000	21.63

Size (in.)	Wall	Wall dec.	Wt lb/ft
4 1/2 x 4 1/2 square tube			
4 1/2 x 4 1/2	3/16	.1875	10.70
4 1/2 x 4 1/2	1/4	.2500	13.91
4 1/2 x 4 1/2	5/16	.3125	16.96
4 1/2 x 4 1/2	3/8	.3750	19.82
5 x 5 square tube			
5 x 5	3/16	.1875	11.97
5 x 5	1/4	.2500	15.62
5 x 5	5/16	.3125	19.08
5 x 5	3/8	.3750	22.37
5 x 5	1/2	.5000	28.43
6 x 6 square tube			
6 x 6	3/16	.1875	14.53
6 x 6	1/4	.2500	19.02
6 x 6	5/16	.3125	23.34
6 x 6	3/8	.3750	27.48
6 x 6	1/2	.5000	35.24
7 x 7 square tube			
7 x 7	3/16	.1875	17.08
7 x 7	1/4	.2500	22.42
7 x 7	5/16	.3125	27.59
7 x 7	3/8	.3750	32.58
7 x 7	1/2	.5000	42.05
8 x 8 square tube			
8 x 8	3/16	.1875	19.63
8 x 8	1/4	.2500	25.82
8 x 8	5/16	.3125	31.84
8 x 8	3/8	.3750	37.69
8 x 8	1/2	.5000	48.85
8 x 8	5/8	.6250	59.32
9 x 9 square tube			
9 x 9	3/16	.1875	22.18
9 x 9	1/4	.2500	29.23
9 x 9	5/16	.3125	36.10
9 x 9	3/8	.3750	42.79
9 x 9	1/2	.5000	55.66
9 x 9	5/8	.6250	67.82
10 x 10 square tube			
10 x 10	3/16	.1875	24.73
10 x 10	1/4	.2500	32.63
10 x 10	5/16	.3125	40.35
10 x 10	3/8	.3750	47.90
10 x 10	1/2	.5000	62.46
10 x 10	5/8	.6250	76.33
12 x 12 square tube			
12 x 12	3/16	.1875	29.84
12 x 12	1/4	.2500	39.43
12 x 12	5/16	.3125	48.86
12 x 12	3/8	.3750	58.10
12 x 12	1/2	.5000	76.07
12 x 12	5/8	.6250	93.34
14 x 14 square tube			
14 x 14	5/16	.3125	57.36
14 x 14	3/8	.3750	68.31
14 x 14	1/2	.5000	89.68
14 x 14	5/8	.6250	110.36

Size (in.)	Wall	Wall dec.	Wt lb/ft
16 x 16 square tube			
16 x 16	5/16	.3125	65.87
16 x 16	3/8	.3750	78.52
16 x 16	1/2	.5000	103.30
16 x 16	5/8	.6250	127.37

Rectangular Tubing

Nominal wall, corner radius 2 x wall (ASTM A500 basis).

Size (in.)	Wall	Wall dec.	Wt lb/ft
3 x 2 rectangular tube			
3 x 2	3/16	.1875	5.59
3 x 2	1/4	.2500	7.11
4 x 2 rectangular tube			
4 x 2	3/16	.1875	6.87
4 x 2	1/4	.2500	8.81
4 x 2	5/16	.3125	10.58
4 x 3 rectangular tube			
4 x 3	3/16	.1875	8.15
4 x 3	1/4	.2500	10.51
4 x 3	5/16	.3125	12.70
5 x 2 rectangular tube			
5 x 2	3/16	.1875	8.15
5 x 2	1/4	.2500	10.51
5 x 2	5/16	.3125	12.70
5 x 3 rectangular tube			
5 x 3	3/16	.1875	9.42
5 x 3	1/4	.2500	12.21
5 x 3	5/16	.3125	14.83
5 x 3	3/8	.3750	17.27
5 x 4 rectangular tube			
5 x 4	3/16	.1875	10.70
5 x 4	1/4	.2500	13.91
5 x 4	5/16	.3125	16.96
5 x 4	3/8	.3750	19.82
6 x 2 rectangular tube			
6 x 2	3/16	.1875	9.42
6 x 2	1/4	.2500	12.21
6 x 2	5/16	.3125	14.83
6 x 3 rectangular tube			
6 x 3	3/16	.1875	10.70
6 x 3	1/4	.2500	13.91
6 x 3	5/16	.3125	16.96
6 x 3	3/8	.3750	19.82
6 x 4 rectangular tube			
6 x 4	3/16	.1875	11.97
6 x 4	1/4	.2500	15.62
6 x 4	5/16	.3125	19.08
6 x 4	3/8	.3750	22.37
6 x 4	1/2	.5000	28.43
6 x 5 rectangular tube			
6 x 5	3/16	.1875	13.25
6 x 5	1/4	.2500	17.32
6 x 5	5/16	.3125	21.21
6 x 5	3/8	.3750	24.93

Size (in.)	Wall	Wall dec.	Wt lb/ft
7 x 3 rectangular tube			
7 x 3	3/16	.1875	11.97
7 x 3	1/4	.2500	15.62
7 x 3	5/16	.3125	19.08
7 x 3	3/8	.3750	22.37
7 x 4 rectangular tube			
7 x 4	3/16	.1875	13.25
7 x 4	1/4	.2500	17.32
7 x 4	5/16	.3125	21.21
7 x 4	3/8	.3750	24.93
7 x 5 rectangular tube			
7 x 5	3/16	.1875	14.53
7 x 5	1/4	.2500	19.02
7 x 5	5/16	.3125	23.34
7 x 5	3/8	.3750	27.48
7 x 5	1/2	.5000	35.24
8 x 2 rectangular tube			
8 x 2	3/16	.1875	11.97
8 x 2	1/4	.2500	15.62
8 x 2	5/16	.3125	19.08
8 x 3 rectangular tube			
8 x 3	3/16	.1875	13.25
8 x 3	1/4	.2500	17.32
8 x 3	5/16	.3125	21.21
8 x 3	3/8	.3750	24.93
8 x 4 rectangular tube			
8 x 4	3/16	.1875	14.53
8 x 4	1/4	.2500	19.02
8 x 4	5/16	.3125	23.34
8 x 4	3/8	.3750	27.48
8 x 4	1/2	.5000	35.24
8 x 6 rectangular tube			
8 x 6	3/16	.1875	17.08
8 x 6	1/4	.2500	22.42
8 x 6	5/16	.3125	27.59
8 x 6	3/8	.3750	32.58
8 x 6	1/2	.5000	42.05
9 x 5 rectangular tube			
9 x 5	3/16	.1875	17.08
9 x 5	1/4	.2500	22.42
9 x 5	5/16	.3125	27.59
9 x 5	3/8	.3750	32.58
9 x 5	1/2	.5000	42.05
9 x 7 rectangular tube			
9 x 7	3/16	.1875	19.63
9 x 7	1/4	.2500	25.82
9 x 7	5/16	.3125	31.84
9 x 7	3/8	.3750	37.69
9 x 7	1/2	.5000	48.85
9 x 7	5/8	.6250	59.32
10 x 2 rectangular tube			
10 x 2	3/16	.1875	14.53
10 x 2	1/4	.2500	19.02
10 x 2	5/16	.3125	23.34

Size (in.)	Wall	Wall dec.	Wt lb/ft
10 × 4 rectangular tube			
10 × 4	3/16	.1875	17.08
10 × 4	1/4	.2500	22.42
10 × 4	5/16	.3125	27.59
10 × 4	3/8	.3750	32.58
10 × 4	1/2	.5000	42.05
10 × 6 rectangular tube			
10 × 6	3/16	.1875	19.63
10 × 6	1/4	.2500	25.82
10 × 6	5/16	.3125	31.84
10 × 6	3/8	.3750	37.69
10 × 6	1/2	.5000	48.85
10 × 6	5/8	.6250	59.32
10 × 8 rectangular tube			
10 × 8	3/16	.1875	22.18
10 × 8	1/4	.2500	29.23
10 × 8	5/16	.3125	36.10
10 × 8	3/8	.3750	42.79
10 × 8	1/2	.5000	55.66
10 × 8	5/8	.6250	67.82
12 × 4 rectangular tube			
12 × 4	3/16	.1875	19.63
12 × 4	1/4	.2500	25.82
12 × 4	5/16	.3125	31.84
12 × 4	3/8	.3750	37.69
12 × 4	1/2	.5000	48.85
12 × 6 rectangular tube			
12 × 6	3/16	.1875	22.18
12 × 6	1/4	.2500	29.23
12 × 6	5/16	.3125	36.10
12 × 6	3/8	.3750	42.79
12 × 6	1/2	.5000	55.66
12 × 6	5/8	.6250	67.82
12 × 8 rectangular tube			
12 × 8	3/16	.1875	24.73
12 × 8	1/4	.2500	32.63
12 × 8	5/16	.3125	40.35
12 × 8	3/8	.3750	47.90
12 × 8	1/2	.5000	62.46
12 × 8	5/8	.6250	76.33
14 × 4 rectangular tube			
14 × 4	1/4	.2500	29.23
14 × 4	5/16	.3125	36.10
14 × 4	3/8	.3750	42.79
14 × 4	1/2	.5000	55.66
14 × 6 rectangular tube			
14 × 6	1/4	.2500	32.63
14 × 6	5/16	.3125	40.35
14 × 6	3/8	.3750	47.90
14 × 6	1/2	.5000	62.46
14 × 10 rectangular tube			
14 × 10	5/16	.3125	48.86
14 × 10	3/8	.3750	58.10
14 × 10	1/2	.5000	76.07
14 × 10	5/8	.6250	93.34

Size (in.)	Wall	Wall dec.	Wt lb/ft
16 × 4 rectangular tube			
16 × 4	5/16	.3125	40.35
16 × 4	3/8	.3750	47.90
16 × 4	1/2	.5000	62.46
16 × 8 rectangular tube			
16 × 8	5/16	.3125	48.86
16 × 8	3/8	.3750	58.10
16 × 8	1/2	.5000	76.07
16 × 8	5/8	.6250	93.34
16 × 12 rectangular tube			
16 × 12	5/16	.3125	57.36
16 × 12	3/8	.3750	68.31
16 × 12	1/2	.5000	89.68
16 × 12	5/8	.6250	110.36
18 × 6 rectangular tube			
18 × 6	5/16	.3125	48.86
18 × 6	3/8	.3750	58.10
18 × 6	1/2	.5000	76.07
20 × 4 rectangular tube			
20 × 4	5/16	.3125	48.86
20 × 4	3/8	.3750	58.10
20 × 4	1/2	.5000	76.07
20 × 8 rectangular tube			
20 × 8	5/16	.3125	57.36
20 × 8	3/8	.3750	68.31
20 × 8	1/2	.5000	89.68
20 × 12 rectangular tube			
20 × 12	5/16	.3125	65.87
20 × 12	3/8	.3750	78.52
20 × 12	1/2	.5000	103.30
20 × 12	5/8	.6250	127.37

Pipe

ASME B36.10 walls. Plain-end weight = 10.69 x (OD - wall) x wall.

Schedule	Wall (in.)	Wt lb/ft
1/8" pipe · O.D. 0.405 in.		
Sch 5	.035	0.14
Sch 10	.049	0.19
Sch 40	.068	0.24
STD (standard)	.068	0.24
Sch 80	.095	0.31
XH (extra heavy)	.095	0.31
1/4" pipe · O.D. 0.540 in.		
Sch 5	.049	0.26
Sch 10	.065	0.33
Sch 40	.088	0.43
STD (standard)	.088	0.43
Sch 80	.119	0.54
XH (extra heavy)	.119	0.54
3/8" pipe · O.D. 0.675 in.		
Sch 5	.049	0.33
Sch 10	.065	0.42
Sch 40	.091	0.57
STD (standard)	.091	0.57
Sch 80	.126	0.74

Schedule	Wall (in.)	Wt lb/ft
XH (extra heavy)	.126	0.74
1/2" pipe · O.D. 0.840 in.		
Sch 5	.065	0.54
Sch 10	.083	0.67
Sch 40	.109	0.85
STD (standard)	.109	0.85
Sch 80	.147	1.09
XH (extra heavy)	.147	1.09
Sch 160	.188	1.31
XXH (dbl. extra heavy)	.294	1.72
3/4" pipe · O.D. 1.050 in.		
Sch 5	.065	0.68
Sch 10	.083	0.86
Sch 40	.113	1.13
STD (standard)	.113	1.13
Sch 80	.154	1.48
XH (extra heavy)	.154	1.48
Sch 160	.219	1.95
XXH (dbl. extra heavy)	.308	2.44
1" pipe · O.D. 1.315 in.		
Sch 5	.065	0.87
Sch 10	.109	1.41
Sch 40	.133	1.68
STD (standard)	.133	1.68
Sch 80	.179	2.17
XH (extra heavy)	.179	2.17
Sch 160	.250	2.85
XXH (dbl. extra heavy)	.358	3.66
1 1/4" pipe · O.D. 1.660 in.		
Sch 5	.065	1.11
Sch 10	.109	1.81
Sch 40	.140	2.27
STD (standard)	.140	2.27
Sch 80	.191	3.00
XH (extra heavy)	.191	3.00
Sch 160	.250	3.77
XXH (dbl. extra heavy)	.382	5.22
1 1/2" pipe · O.D. 1.900 in.		
Sch 5	.065	1.28
Sch 10	.109	2.09
Sch 40	.145	2.72
STD (standard)	.145	2.72
Sch 80	.200	3.63
XH (extra heavy)	.200	3.63
Sch 160	.281	4.86
XXH (dbl. extra heavy)	.400	6.41
2" pipe · O.D. 2.375 in.		
Sch 5	.065	1.61
Sch 10	.109	2.64
Sch 40	.154	3.66
STD (standard)	.154	3.66
Sch 80	.218	5.03
XH (extra heavy)	.218	5.03
Sch 160	.344	7.47
XXH (dbl. extra heavy)	.436	9.04

Schedule	Wall (in.)	Wt lb/ft
2 1/2" pipe · O.D. 2.875 in.		
Sch 5	.083	2.48
Sch 10	.120	3.53
Sch 40	.203	5.80
STD (standard)	.203	5.80
Sch 80	.276	7.67
XH (extra heavy)	.276	7.67
Sch 160	.375	10.02
XXH (dbl. extra heavy)	.552	13.71
3" pipe · O.D. 3.500 in.		
Sch 5	.083	3.03
Sch 10	.120	4.34
Sch 40	.216	7.58
STD (standard)	.216	7.58
Sch 80	.300	10.26
XH (extra heavy)	.300	10.26
Sch 160	.438	14.34
XXH (dbl. extra heavy)	.600	18.60
3 1/2" pipe · O.D. 4.000 in.		
Sch 5	.083	3.48
Sch 10	.120	4.98
Sch 40	.226	9.12
STD (standard)	.226	9.12
Sch 80	.318	12.52
XH (extra heavy)	.318	12.52
XXH (dbl. extra heavy)	.636	22.87
4" pipe · O.D. 4.500 in.		
Sch 5	.083	3.92
Sch 10	.120	5.62
Sch 40	.237	10.80
STD (standard)	.237	10.80
Sch 80	.337	15.00
XH (extra heavy)	.337	15.00
Sch 120	.438	19.02
Sch 160	.531	22.53
XXH (dbl. extra heavy)	.674	27.57
4 1/2" pipe · O.D. 5.000 in.		
STD (standard)	.247	12.55
XH (extra heavy)	.355	17.63
XXH (dbl. extra heavy)	.710	32.56
5" pipe · O.D. 5.563 in.		
Sch 5	.109	6.36
Sch 10	.134	7.78
Sch 40	.258	14.63
STD (standard)	.258	14.63
Sch 80	.375	20.80
XH (extra heavy)	.375	20.80
Sch 120	.500	27.06
Sch 160	.625	32.99
XXH (dbl. extra heavy)	.750	38.59
6" pipe · O.D. 6.625 in.		
Sch 5	.109	7.59
Sch 10	.134	9.30
Sch 40	.280	18.99
STD (standard)	.280	18.99
Sch 80	.432	28.60

Schedule	Wall (in.)	Wt lb/ft
XH (extra heavy)	.432	28.60
Sch 120	.562	36.43
Sch 160	.719	45.39
XXH (dbl. extra heavy)	.864	53.21
7" pipe · O.D. 7.625 in.		
STD (standard)	.301	23.57
XH (extra heavy)	.500	38.08
XXH (dbl. extra heavy)	.875	63.14
8" pipe · O.D. 8.625 in.		
Sch 5	.109	9.92
Sch 10	.148	13.41
Sch 20	.250	22.38
Sch 30	.277	24.72
Sch 40	.322	28.58
STD (standard)	.322	28.58
Sch 60	.406	35.67
Sch 80	.500	43.43
XH (extra heavy)	.500	43.43
Sch 100	.594	51.00
Sch 120	.719	60.77
Sch 140	.812	67.82
Sch 160	.906	74.76
XXH (dbl. extra heavy)	.875	72.49
9" pipe · O.D. 9.625 in.		
STD (standard)	.342	33.94
XH (extra heavy)	.500	48.77
10" pipe · O.D. 10.750 in.		
Sch 5	.134	15.21
Sch 10	.165	18.67
Sch 20	.250	28.06
Sch 30	.307	34.27
Sch 40	.365	40.52
STD (standard)	.365	40.52
Sch 60	.500	54.79
Sch 80	.594	64.49
XH (extra heavy)	.500	54.79
Sch 100	.719	77.10
Sch 120	.844	89.38
Sch 140	1.000	104.23
Sch 160	1.125	115.75
XXH (dbl. extra heavy)	1.000	104.23
11" pipe · O.D. 11.750 in.		
STD (standard)	.375	45.60
XH (extra heavy)	.500	60.13
12" pipe · O.D. 12.750 in.		
Sch 5	.165	22.20
Sch 10	.180	24.19
Sch 20	.250	33.41
Sch 30	.330	43.81
Sch 40	.406	53.57
STD (standard)	.375	49.61
Sch 60	.562	73.22
Sch 80	.688	88.71
XH (extra heavy)	.500	65.48
Sch 100	.844	107.42
Sch 120	1.000	125.61

Schedule	Wall (in.)	Wt lb/ft
Sch 140	1.125	139.81
Sch 160	1.312	160.42
XXH (dbl. extra heavy)	1.000	125.61
14" pipe · O.D. 14.000 in.		
Sch 10	.250	36.75
Sch 20	.312	45.65
Sch 30	.375	54.62
Sch 40	.438	63.50
STD (standard)	.375	54.62
Sch 60	.594	85.13
Sch 80	.750	106.23
XH (extra heavy)	.500	72.16
Sch 100	.938	130.98
Sch 120	1.094	150.93
Sch 140	1.250	170.37
Sch 160	1.406	189.29
16" pipe · O.D. 16.000 in.		
Sch 10	.250	42.09
Sch 20	.312	52.32
Sch 30	.375	62.64
Sch 40	.500	82.85
STD (standard)	.375	62.64
Sch 60	.656	107.60
Sch 80	.844	136.74
XH (extra heavy)	.500	82.85
Sch 100	1.031	164.98
Sch 120	1.219	192.61
Sch 140	1.438	223.85
Sch 160	1.594	245.48
18" pipe · O.D. 18.000 in.		
Sch 10	.250	47.44
Sch 20	.312	58.99
Sch 30	.438	82.23
Sch 40	.562	104.76
STD (standard)	.375	70.65
Sch 60	.750	138.30
Sch 80	.938	171.08
XH (extra heavy)	.500	93.54
Sch 100	1.156	208.15
Sch 120	1.375	244.37
Sch 140	1.562	274.48
Sch 160	1.781	308.79
20" pipe · O.D. 20.000 in.		
Sch 10	.250	52.78
Sch 20	.375	78.67
Sch 30	.500	104.23
Sch 40	.594	123.23
STD (standard)	.375	78.67
Sch 60	.812	166.56
Sch 80	1.031	209.06
XH (extra heavy)	.500	104.23
Sch 100	1.281	256.34
Sch 120	1.500	296.65
Sch 140	1.750	341.41
Sch 160	1.969	379.53

Schedule	Wall (in.)	Wt lb/ft
22" pipe · O.D. 22.000 in.		
Sch 10	.250	58.13
Sch 20	.375	86.69
Sch 30	.500	114.92
STD (standard)	.375	86.69
Sch 60	.875	197.60
Sch 80	1.125	251.05
XH (extra heavy)	.500	114.92
Sch 100	1.375	303.16
Sch 120	1.625	353.94
Sch 140	1.875	403.38
Sch 160	2.125	451.49
24" pipe · O.D. 24.000 in.		
Sch 10	.250	63.47
Sch 20	.375	94.71
Sch 30	.562	140.81
Sch 40	.688	171.45
STD (standard)	.375	94.71
Sch 60	.969	238.57
Sch 80	1.219	296.86
XH (extra heavy)	.500	125.61
Sch 100	1.531	367.74
Sch 120	1.812	429.79
Sch 140	2.062	483.57
Sch 160	2.344	542.64
26" pipe · O.D. 26.000 in.		
Sch 10	.312	85.68
Sch 20	.500	136.30
STD (standard)	.375	102.72
XH (extra heavy)	.500	136.30
28" pipe · O.D. 28.000 in.		
Sch 10	.312	92.35
Sch 20	.500	146.99
Sch 30	.625	182.90
STD (standard)	.375	110.74
XH (extra heavy)	.500	146.99
30" pipe · O.D. 30.000 in.		
Sch 10	.312	99.02
Sch 20	.500	157.68
Sch 30	.625	196.26
STD (standard)	.375	118.76
XH (extra heavy)	.500	157.68
32" pipe · O.D. 32.000 in.		
Sch 10	.312	105.69
Sch 20	.500	168.37
Sch 30	.625	209.62
Sch 40	.688	230.29
STD (standard)	.375	126.78
XH (extra heavy)	.500	168.37
34" pipe · O.D. 34.000 in.		
Sch 10	.344	123.77
Sch 20	.500	179.06
Sch 30	.625	222.99
Sch 40	.688	245.00
STD (standard)	.375	134.79
XH (extra heavy)	.500	179.06

Schedule	Wall (in.)	Wt lb/ft
36" pipe · O.D. 36.000 in.		
Sch 10	.312	119.03
Sch 20	.500	189.75
Sch 30	.625	236.35
Sch 40	.750	282.62
STD (standard)	.375	142.81
XH (extra heavy)	.500	189.75
42" pipe · O.D. 42.000 in.		
STD (standard)	.375	166.86
XH (extra heavy)	.500	221.82
48" pipe · O.D. 48.000 in.		
STD (standard)	.375	190.92
XH (extra heavy)	.500	253.89

Flat Bar

Thickness x width.

Size (thk x width, in.)	Wt lb/ft
1/4" thick	
1/4 x 1/2	0.425
1/4 x 3/4	0.638
1/4 x 1	0.851
1/4 x 1 1/4	1.06
1/4 x 1 1/2	1.28
1/4 x 2	1.70
1/4 x 2 1/2	2.13
1/4 x 3	2.55
1/4 x 3 1/2	2.98
1/4 x 4	3.40
1/4 x 4 1/2	3.83
1/4 x 5	4.25
1/4 x 6	5.10
1/4 x 7	5.96
1/4 x 8	6.81
5/16" thick	
5/16 x 2	2.13
5/16 x 3	3.19
5/16 x 4	4.25
5/16 x 5	5.32
5/16 x 6	6.38
5/16 x 7	7.44
5/16 x 8	8.51
3/8" thick	
3/8 x 1	1.28
3/8 x 1 1/4	1.59
3/8 x 1 1/2	1.91
3/8 x 2	2.55
3/8 x 2 1/2	3.19
3/8 x 3	3.83
3/8 x 3 1/2	4.47
3/8 x 4	5.10
3/8 x 4 1/2	5.74
3/8 x 5	6.38
3/8 x 5 1/2	7.02
3/8 x 6	7.66
3/8 x 7	8.93

Size (thk x width, in.)	Wt lb/ft
3/8 x 8	10.21
1/2" thick	
1/2 x 1	1.70
1/2 x 1 1/2	2.55
1/2 x 2	3.40
1/2 x 2 1/2	4.25
1/2 x 3	5.10
1/2 x 3 1/2	5.96
1/2 x 4	6.81
1/2 x 4 1/2	7.66
1/2 x 5	8.51
1/2 x 5 1/2	9.36
1/2 x 6	10.21
1/2 x 7	11.91
1/2 x 8	13.61
5/8" thick	
5/8 x 1	2.13
5/8 x 2	4.25
5/8 x 2 1/2	5.32
5/8 x 3	6.38
5/8 x 4	8.51
5/8 x 5	10.63
5/8 x 6	12.76
5/8 x 7	14.89
5/8 x 8	17.01
3/4" thick	
3/4 x 1 1/2	3.83
3/4 x 2	5.10
3/4 x 2 1/2	6.38
3/4 x 3	7.66
3/4 x 4	10.21
3/4 x 5	12.76
3/4 x 6	15.31
3/4 x 7	17.86
3/4 x 8	20.42
1" thick	
1 x 2	6.81
1 x 3	10.21
1 x 4	13.61
1 x 4 1/2	15.31
1 x 5	17.01
1 x 6	20.42
1 x 7	23.82
1 x 8	27.22
1 1/4" thick	
1 1/4 x 3	12.76
1 1/4 x 4	17.01
1 1/4 x 5	21.27
1 1/4 x 6	25.52
1 1/4 x 8	34.03
1 1/2" thick	
1 1/2 x 3	15.31
1 1/2 x 4	20.42
1 1/2 x 5	25.52
1 1/2 x 6	30.62
1 1/2 x 8	40.83

Size (thk x width, in.)	Wt lb/ft
2" thick	
2 x 3	20.42
2 x 4	27.22
2 x 5	34.03
2 x 6	40.83
2 1/2" thick	
2 1/2 x 4	34.03

Strip

Thickness x width.

Size (thk x width, in.)	Wt lb/ft
1/8" thick	
1/8 x 1/2	0.213
1/8 x 3/4	0.319
1/8 x 1	0.425
1/8 x 1 1/4	0.532
1/8 x 1 1/2	0.638
1/8 x 2	0.851
1/8 x 2 1/2	1.06
1/8 x 3	1.28
1/8 x 3 1/2	1.49
1/8 x 4	1.70
1/8 x 6	2.55
3/16" thick	
3/16 x 1/2	0.319
3/16 x 3/4	0.479
3/16 x 1	0.638
3/16 x 1 1/4	0.798
3/16 x 1 1/2	0.957
3/16 x 1 3/4	1.12
3/16 x 2	1.28
3/16 x 2 1/2	1.59
3/16 x 3	1.91
3/16 x 4	2.55
3/16 x 5	3.19
3/16 x 6	3.83
3/16 x 8	5.10

Round Bar

Diameter (in.)	Wt lb/ft
1/4	0.167
3/8	0.376
1/2	0.668
5/8	1.04
3/4	1.50
7/8	2.05
1	2.67
1 1/8	3.38
1 1/4	4.18
1 3/8	5.05
1 1/2	6.01
1 3/4	8.19
2	10.69

Diameter (in.)	Wt lb/ft
2 1/4	13.53
2 1/2	16.70
2 3/4	20.21
3	24.05

Square Bar

Size (in.)	Wt lb/ft
3/8	0.479
1/2	0.851
5/8	1.33
3/4	1.91
1	3.40
1 1/4	5.32
1 1/2	7.66
2	13.61
2 1/4	17.23

Plate

Weight per square foot, plus full-sheet weights.

Thickness	lb/sq ft	4x8 sheet	4x10 sheet	5x10 sheet
3/16	7.66	245	306	383
1/4	10.21	327	408	510
5/16	12.76	408	510	638
3/8	15.31	490	612	766
7/16	17.86	572	715	893
1/2	20.42	653	817	1,021
9/16	22.97	735	919	1,148
5/8	25.52	817	1,021	1,276
3/4	30.62	980	1,225	1,531
7/8	35.73	1,143	1,429	1,786
1	40.83	1,307	1,633	2,042
1 1/8	45.94	1,470	1,837	2,297
1 1/4	51.04	1,633	2,042	2,552
1 3/8	56.15	1,797	2,246	2,807
1 1/2	61.25	1,960	2,450	3,062
1 5/8	66.35	2,123	2,654	3,318
1 3/4	71.46	2,287	2,858	3,573
2	81.67	2,613	3,267	4,083
2 1/4	91.87	2,940	3,675	4,594
2 1/2	102.08	3,267	4,083	5,104
2 3/4	112.29	3,593	4,492	5,615
3	122.50	3,920	4,900	6,125
3 1/4	132.71	4,247	5,308	6,635
3 1/2	142.92	4,573	5,717	7,146
3 3/4	153.12	4,900	6,125	7,656
4	163.33	5,227	6,533	8,167
4 1/4	173.54	5,553	6,942	8,677
5	204.17	6,533	8,167	10,208
5 1/2	224.58	7,187	8,983	11,229
6	245.00	7,840	9,800	12,250

Floor Plate (Diamond)

Thickness is measured at the base plate; raised pattern adds weight.

Thickness	lb/sq ft	4x8 sheet	4x10 sheet	5x10 sheet
1/8	6.16	197	246	308
3/16	8.71	279	348	436
1/4	11.26	360	450	563
5/16	13.81	442	552	690
3/8	16.37	524	655	818
1/2	21.47	687	859	1,074
3/4	31.68	1,014	1,267	1,584
1	41.89	1,340	1,676	2,094

Sheet (Gauge)

Manufacturer's standard gauge, uncoated steel sheet.

Gauge	Dec. in.	lb/sq ft	4x8	4x10	5x10
16 ga	.0598	2.50	80	100	125
14 ga	.0747	3.12	100	125	156
12 ga	.1046	4.38	140	175	219
11 ga	.1196	5.00	160	200	250
10 ga	.1345	5.62	180	225	281

Universal Mill (UM) Plate

Thickness x width. 20 ft length weight included.

Size (thk x width)	Wt lb/ft	20 ft (lb)
1/4" thick		
1/4 x 9	7.66	153.1
1/4 x 10	8.51	170.1
1/4 x 11	9.36	187.2
1/4 x 12	10.21	204.2
1/4 x 13	11.06	221.2
1/4 x 14	11.91	238.2
1/4 x 15	12.76	255.2
1/4 x 16	13.61	272.2
1/4 x 18	15.31	306.3
1/4 x 20	17.01	340.3
1/4 x 24	20.42	408.3
5/16" thick		
5/16 x 9	9.57	191.4
5/16 x 10	10.63	212.7
5/16 x 12	12.76	255.2
5/16 x 14	14.89	297.7
5/16 x 16	17.01	340.3
5/16 x 18	19.14	382.8
5/16 x 20	21.27	425.3
5/16 x 22	23.39	467.9
5/16 x 24	25.52	510.4
3/8" thick		
3/8 x 9	11.48	229.7
3/8 x 10	12.76	255.2
3/8 x 11	14.04	280.7
3/8 x 12	15.31	306.3
3/8 x 13	16.59	331.8
3/8 x 14	17.86	357.3

Size (thk x width)	Wt lb/ft	20 ft (lb)
3/8 × 16	20.42	408.3
3/8 × 18	22.97	459.4
3/8 × 20	25.52	510.4
3/8 × 22	28.07	561.5
3/8 × 24	30.63	612.5
1/2" thick		
1/2 × 9	15.31	306.3
1/2 × 10	17.01	340.3
1/2 × 12	20.42	408.3
1/2 × 14	23.82	476.4
1/2 × 16	27.22	544.4
1/2 × 18	30.63	612.5
1/2 × 20	34.03	680.6
1/2 × 22	37.43	748.6
1/2 × 24	40.83	816.7
5/8" thick		
5/8 × 9	19.14	382.8
5/8 × 10	21.27	425.3
5/8 × 12	25.52	510.4
5/8 × 14	29.77	595.5
5/8 × 16	34.03	680.6
5/8 × 18	38.28	765.6
5/8 × 20	42.53	850.7
5/8 × 22	46.79	935.8
5/8 × 24	51.04	1,020.8
3/4" thick		
3/4 × 9	22.97	459.4
3/4 × 10	25.52	510.4
3/4 × 12	30.63	612.5
3/4 × 14	35.73	714.6
3/4 × 16	40.83	816.7
3/4 × 18	45.94	918.8
3/4 × 20	51.04	1,020.8
3/4 × 22	56.15	1,122.9
3/4 × 24	61.25	1,225.0
7/8" thick		
7/8 × 10	29.77	595.5
7/8 × 12	35.73	714.6
7/8 × 14	41.68	833.7
7/8 × 16	47.64	952.8
7/8 × 18	53.59	1,071.9
7/8 × 20	59.55	1,191.0
7/8 × 24	71.46	1,429.2
1" thick		
1 × 9	30.63	612.5
1 × 10	34.03	680.6
1 × 12	40.83	816.7
1 × 14	47.64	952.8
1 × 16	54.44	1,088.9
1 × 18	61.25	1,225.0
1 × 20	68.06	1,361.1
1 × 22	74.86	1,497.2
1 × 24	81.67	1,633.3