

SPECIFICATIONS FOR STRUCTURAL STEEL SHAPES

ASTM – A36 - Standard Specification for Carbon Structural Steel.

This specification covers shapes of structural quality for use in riveted, bolted, or welded construction of bridges and buildings, and for general structural purposes.

ASTM – A572 - Standard Specification for High-Strength Low-Alloy Structural Steel.

This specification covers five grades of high-strength low-alloy shapes intended for riveted, bolted, or welded construction of bridges, or for other construction applications.

ASTM – A588 - Standard Specification for High-Strength Low-Alloy Structural Steel.

This specification covers shapes for welded, riveted, or bolted construction but intended primarily for use in welded bridges and buildings where savings in weight or added durability is important. The atmospheric corrosion resistance of this steel in most environments is substantially better than that of carbon steels with or without copper addition.

ASTM – A709 - Standard Specification for Carbon and High Strength Low-Alloy Shapes.

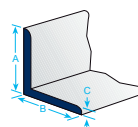
This specification covers shapes, and bars intended for use in bridges. Seven grades are available in four yield strengths.

ASTM – A992 - Standard Specification for Steel for Structural Shapes For Use in Building Framing.

This specification covers rolled shapes for use in building framing or bridges, or for general structural purposes.

Angles - Bar Size

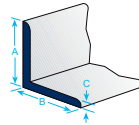
Standard Lengths 20' and 40'



Size in Inches					Estimated Weight Lbs.		
A		B		C	Per Foot	20 Ft. Length	40 Ft. Length
1/2	x	1/2	x	1/8	0.38	7.6	
5/8	x	5/8	x	1/8	0.48	9.6	
3/4	x	3/4	x	1/8	0.59	11.8	
7/8	x	7/8	x	1/8	0.7	14	
1	x	1	x	1/8	0.8	16	32
				3/16	1.16	23.2	46.4
				1/4	1.49	29.8	59.6
1 1/4	x	1 1/4	x	1/8	1.01	20.2	40.4
				3/16	1.48	29.6	59.2
				1/4	1.92	38.4	76.8
1 1/2	x	1 1/2	x	1/8	1.23	24.6	49.2
				3/16	1.8	36	72
				1/4	2.34	46.8	93.6
1 3/4	x	1 3/4	x	1/8	1.44	28.8	57.6
				3/16	2.12	42.4	84.8
				1/4	2.77	55.4	110.8
2	x	1 1/4	x	3/16	1.96	39.2	78.4
				1/4	2.55	51	102
2	x	1 1/2	x	1/8	1.44	28.8	57.6
				3/16	2.12	42.4	84.8
				1/4	2.77	55.4	110.8
2	x	2	x	1/8	1.65	33	66
				3/16	2.44	48.8	97.6
				1/4	3.19	63.8	127.6
				5/16	3.92	78.4	156.8
				3/8	4.7	94	188
2 1/2	x	1 1/2	x	3/16	2.44	48.8	97.6
				1/4	3.19	63.8	127.6
				5/16	3.92	78.4	156.8
2 1/2	x	2	x	3/16	2.75	55	110
				1/4	3.62	72.4	144.8
				5/16	4.5	90	180
				3/8	5.3	106	212
2 1/2	x	2 1/2	x	3/16	3.07	61.4	122.8
				1/4	4.1	82	164
				5/16	5	100	200
				3/8	5.9	118	236
				1/2	7.7	154	308

L Angles - Structural Sizes

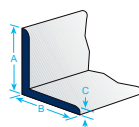
Standard Lengths 20' to 40'



Size in Inches					Estimated Weight Lbs.		
A		B		C	Per Foot	20 Ft. Length	40 Ft. Length
3	x	2	x	3/16	3.07	61.4	122.8
				1/4	4.1	82	164
				5/16	5	100	200
				3/8	5.9	118	236
				1/2	7.7	154	308
3	x	2 1/2	x	3/16	3.39	67.8	135.6
				1/4	4.5	90	180
				5/16	5.6	112	224
				3/8	6.6	132	264
				1/2	8.5	170	340
3	x	3	x	3/16	3.71	74.2	148.4
				1/4	4.9	98	196
				5/16	6.1	122	244
				3/8	7.2	144	288
				1/2	9.4	188	376
3 1/2	x	2 1/2	x	1/4	4.9	98	196
				5/16	6.1	122	244
				3/8	7.2	144	288
				1/2	9.4	188	376
3 1/2	x	3	x	1/4	5.4	108	216
				5/16	6.6	132	264
				3/8	7.9	158	316
				1/2	10.2	204	408
3 1/2	x	3 1/2	x	1/4	5.8	116	232
				5/16	7.2	144	288
				3/8	8.5	170	340
				7/16	9.8	196	392
				1/2	11.1	222	444
4	x	3	x	1/4	5.8	116	232
				5/16	7.2	144	288
				3/8	8.5	170	340
				1/2	11.1	222	444
				5/8	13.6	272	544
4	x	3 1/2	x	1/4	6.2	124	248
				5/16	7.7	154	308
				3/8	9.1	182	364
				1/2	11.9	238	476
4	x	4	x	1/4	6.6	132	264
				5/16	8.2	164	328
				3/8	9.8	196	392
				7/16	11.3	226	452
				1/2	12.8	256	512
				5/8	15.7	314	628
				3/4	18.5	370	740
5	x	3	x	1/4	6.6	132	264
				5/16	8.2	164	328
				3/8	9.8	196	392
				1/2	12.8	256	512

L Angles - Structural Sizes

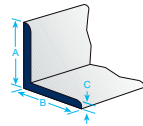
Standard Lengths up to 60'



Size in Inches					Estimated Weight Lbs.		
A		B		C	Per Foot	20 Ft. Length	40 Ft. Length
5	x	3 1/2	x	1/4	7.0	140	280
				5/16	8.7	174	348
				3/8	10.4	208	416
				1/2	13.6	272	544
				5/8	16.8	336	672
				3/4	19.8	396	792
5	x	5	x	5/16	10.3	206	412
				3/8	12.3	246	492
				7/16	14.3	286	572
				1/2	16.2	324	648
				5/8	20	400	800
				3/4	23.6	472	944
6	x	3 1/2	x	5/16	9.8	196	392
				3/8	11.7	234	468
				1/2	15.3	306	612
6	x	4	x	5/16	10.3	206	412
				3/8	12.3	246	492
				7/16	14.3	286	572
				1/2	16.2	324	648
				5/8	20	400	800
				3/4	23.6	472	944
6	x	6	x	5/16	12.4	248	496
				3/8	14.9	298	596
				7/16	17.2	344	688
				1/2	19.6	392	784
				5/8	24.2	484	968
				3/4	28.7	574	1148
7	x	4	x	7/8	33.1	662	1324
				1	37.4	748	1496
7	x	4	x	3/8	13.6	272	544
				7/16	15.8	316	632
				1/2	17.9	358	716
				5/8	22.1	442	884
				3/4	26.2	524	1048
8	x	4	x	1/2	19.6	392	784
				9/16	21.9	438	876
				5/8	24.2	484	968
				3/4	28.7	574	1148
				7/8	33.1	662	1324
				1	37.4	748	1496
8	x	6	x	1/2	23	460	920
				9/16	25.7	514	1028
				5/8	28.5	570	1140
				3/4	33.8	676	1352
				7/8	39.1	782	1564
				1	44.2	884	1768

L Angles - Structural Sizes

Standard Lengths up to 60'



Size in Inches					Estimated Weight Lbs.		
					Per Foot	20 Ft. Length	40 Ft. Length
A	B		C				
8	x	8	x	1/2	26.4	528	1056
				9/16	29.6	592	1184
				5/8	32.7	654	1308
				3/4	38.9	778	1556
				7/8	45	900	1800
				1	51	1020	2040
				1 1/8	56.9	1138	2276