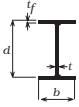
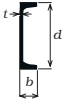


## STEEL STRUCTURALS



### Beams

Standard (I Beams)  
"S" Shapes  
Wide Flange  
"W" Shapes



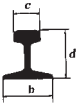
### Channels

Carbon Steel - Bar Size  
- "C" Shapes  
- "MC" Shapes  
High Strength Low Alloy - "C" Shapes



### Tees

Bar Size



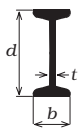
### Rails

ASCE Sections - New Billet Steel



### Angles

Carbon Steel - Bar Size  
- "L" Shapes  
High Strength Low Alloy - Bar Size  
- "L" Shapes



## STEEL I BEAMS

### “S” SHAPES

#### Structural

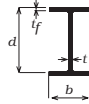
ASTM A 36 ASME SA-36

ASTM A 709 Grade 36

Identification Color: Plain Ends

Section Number	Weight Per Ft. Lbs.	Depth $d$ In.	Width $b$ In.	Web $t$ In.
<b>S 3</b> x	<b>5.7</b>	3.00	2.330	.170
	<b>7.5</b>	3.00	2.509	.349
<b>S 4</b> x	<b>7.7</b>	4.00	2.663	.193
	<b>9.5</b>	4.00	2.796	.326
<b>S 5</b> x	<b>10</b>	5.00	3.004	.214
<b>S 6</b> x	<b>12.5</b>	6.00	3.332	.232
	<b>17.25</b>	6.00	3.565	.465
<b>S 8</b> x	<b>18.4</b>	8.00	4.001	.271
	<b>23</b>	8.00	4.171	.441
<b>S10</b> x	<b>25.4</b>	10.00	4.661	.311
<b>S12</b> x	<b>31.8</b>	12.00	5.000	.350
	<b>35</b>	12.00	5.078	.428
	<b>40.8</b>	12.00	5.252	.462
	<b>50</b>	12.00	5.477	.687
<b>S15</b> x	<b>42.9</b>	15.00	5.501	.411
	<b>50</b>	15.00	5.640	.550
<b>S18</b> x	<b>54.7</b>	18.00	6.001	.461
	<b>70</b>	18.00	6.251	.711
<b>S20</b> x	<b>66</b>	20.00	6.250	.505
	<b>75</b>	20.00	6.375	.635
	<b>86</b>	20.25	7.000	.660
	<b>96</b>	20.25	7.250	.800
<b>S24</b> x	<b>80</b>	24.00	7.000	.500
	<b>90</b>	24.00	7.125	.625
	<b>100</b>	24.00	7.250	.745
	<b>106</b>	24.50	7.875	.620
	<b>121</b>	24.50	8.050	.800

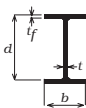
**STEEL WIDE FLANGE BEAMS  
"W" SHAPES\***  
**ASTM A 992 ASTM A 572 Grade 50**  
**ASTM A 709 Grade 50**



Identification Color: Red

Section Number	Weight Per Ft. Lbs.	Depth d In.	Flange		Web t In.
			Width b In.	Thick t <sub>f</sub> In.	
<b>W 4 x 13**</b>	4.16	4.060	.345	.280	
<b>W 5 x 16</b>	5.01	5.000	.360	.240	
<b>W 5 x 19</b>	5.15	5.030	.430	.270	
<b>W 6 x 9</b>	5.90	3.940	.215	.170	
<b>W 6 x 12</b>	6.03	4.000	.280	.230	
<b>W 6 x 15</b>	5.99	5.990	.260	.230	
<b>W 6 x 16</b>	6.28	4.030	.405	.260	
<b>W 6 x 20</b>	6.20	6.020	.365	.260	
<b>W 6 x 25</b>	6.38	6.080	.455	.320	
<b>W 8 x 10</b>	7.89	3.940	.205	.170	
<b>W 8 x 13</b>	7.99	4.000	.255	.230	
<b>W 8 x 15</b>	8.11	4.015	.315	.245	
<b>W 8 x 18</b>	8.14	5.250	.330	.230	
<b>W 8 x 21</b>	8.28	5.270	.400	.250	
<b>W 8 x 24</b>	7.93	6.495	.400	.245	
<b>W 8 x 28</b>	8.06	6.535	.465	.285	
<b>W 8 x 31</b>	8.00	7.995	.435	.285	
<b>W 8 x 35</b>	8.12	8.020	.495	.310	
<b>W 8 x 40</b>	8.25	8.070	.560	.360	
<b>W 8 x 48</b>	8.50	8.110	.685	.400	
<b>W 8 x 58</b>	8.75	8.220	.810	.510	
<b>W 10 x 67</b>	9.00	8.280	.935	.570	
<b>W 10 x 12</b>	9.87	3.960	.210	.190	
<b>W 10 x 15</b>	9.99	4.000	.270	.230	
<b>W 10 x 17</b>	10.11	4.010	.330	.240	
<b>W 10 x 19</b>	10.24	4.020	.395	.250	
<b>W 10 x 22</b>	10.17	5.750	.360	.240	
<b>W 10 x 26</b>	10.33	5.770	.440	.260	
<b>W 10 x 30</b>	10.47	5.810	.510	.300	
<b>W 10 x 33</b>	9.73	7.960	.435	.290	
<b>W 10 x 39</b>	9.92	7.985	.530	.315	
<b>W 10 x 45</b>	10.10	8.020	.620	.350	
<b>W 10 x 49</b>	9.98	10.000	.560	.340	
<b>W 10 x 54</b>	10.09	10.030	.615	.370	
<b>W 10 x 60</b>	10.22	10.080	.680	.420	
<b>W 10 x 68</b>	10.40	10.130	.770	.470	
<b>W 10 x 77</b>	10.60	10.190	.870	.530	
<b>W 10 x 88</b>	10.84	10.265	.990	.605	
<b>W 10 x 100</b>	11.10	10.340	1.120	.680	
<b>W 12 x 11</b>	11.36	10.415	1.250	.755	
<b>W 12 x 14</b>	11.91	3.970	.225	.200	
<b>W 12 x 16</b>	11.99	3.990	.265	.220	
<b>W 12 x 19</b>	12.16	4.005	.350	.235	
<b>W 12 x 22</b>	12.31	4.030	.425	.260	
<b>W 12 x 26</b>	12.22	6.490	.380	.230	
<b>W 12 x 30</b>	12.34	6.520	.440	.260	
<b>W 12 x 35</b>	12.50	6.560	.520	.300	
<b>W 12 x 40</b>	11.94	8.005	.515	.295	
<b>W 12 x 45</b>	12.06	8.045	.575	.335	
<b>W 12 x 50</b>	12.19	8.080	.640	.370	
<b>W 12 x 53</b>	12.06	9.995	.575	.345	
<b>W 12 x 58</b>	12.19	10.010	.640	.360	
<b>W 12 x 65</b>	12.12	12.000	.605	.390	
<b>W 12 x 72</b>	12.25	12.040	.670	.430	
<b>W 12 x 79</b>	12.38	12.080	.735	.470	
<b>W 12 x 87</b>	12.53	12.125	.810	.515	
<b>W 12 x 96</b>	12.71	12.160	.900	.550	
<b>W 12 x 106</b>	12.89	12.220	.990	.610	
<b>W 12 x 120</b>	13.12	12.320	1.105	.710	
<b>W 12 x 136</b>	13.41	12.400	1.250	.790	
<b>W 12 x 152</b>	13.71	12.480	1.400	.870	
<b>W 12 x 170</b>	14.03	12.570	1.560	.960	
<b>W 12 x 190</b>	14.38	12.670	1.735	1.060	
<b>W 14 x 22</b>	13.74	5.000	.335	.230	
<b>W 14 x 26</b>	13.91	5.025	.420	.255	
<b>W 14 x 30</b>	13.84	6.730	.385	.270	

\*ASTM A 36, ASME SA-36, ASTM A 709 Grade 36 Available—Plain Ends  
 \*\*Inside flange surfaces are sloped. Continued on following page



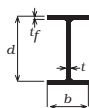
**STEEL WIDE FLANGE BEAMS**  
**"W" SHAPES\***  
**ASTM A 992 ASTM A 572 Grade 50**  
**ASTM A 709 Grade 50**

Identification Color: Red

Section Number	Weight Per Ft. Lbs.	Depth d In.	Flange		Web t In.
			Width b In.	Thick t <sub>f</sub> In.	
<b>W14 x 34</b>	13.98	6.745	.455	.285	
<b>38</b>	14.10	6.770	.515	.310	
<b>43</b>	13.66	7.995	.530	.305	
<b>48</b>	13.79	8.030	.595	.340	
<b>53</b>	13.92	8.060	.660	.370	
<b>61</b>	13.89	9.995	.645	.375	
<b>68</b>	14.04	10.035	.720	.415	
<b>74</b>	14.17	10.070	.785	.450	
<b>82</b>	14.31	10.130	.855	.510	
<b>90</b>	14.02	14.520	.710	.440	
<b>99</b>	14.16	14.565	.780	.485	
<b>109</b>	14.32	14.605	.860	.525	
<b>120</b>	14.48	14.670	.940	.590	
<b>132</b>	14.66	14.725	1.030	.645	
<b>145</b>	14.78	15.500	1.090	.680	
<b>159</b>	14.98	15.565	1.190	.745	
<b>176</b>	15.22	15.650	1.310	.830	
<b>193</b>	15.48	15.710	1.440	.890	
<b>211</b>	15.72	15.800	1.560	.980	
<b>233</b>	16.04	15.890	1.720	1.070	
<b>257</b>	16.38	15.995	1.890	1.175	
<b>283</b>	16.74	16.110	2.070	1.290	
<b>311</b>	17.12	16.230	2.260	1.410	
<b>342</b>	17.54	16.360	2.470	1.540	
<b>370</b>	17.92	16.475	2.660	1.655	
<b>398</b>	18.29	16.590	2.845	1.770	
<b>W16 x 26</b>	15.69	5.500	.345	.250	
<b>31</b>	15.88	5.525	.440	.275	
<b>36</b>	15.86	6.985	.430	.295	
<b>40</b>	16.01	6.995	.505	.305	
<b>45</b>	16.13	7.035	.565	.345	
<b>50</b>	16.26	7.070	.630	.380	
<b>57</b>	16.43	7.120	.715	.430	
<b>67</b>	16.33	10.235	.665	.395	
<b>77</b>	16.52	10.295	.760	.455	
<b>89</b>	16.75	10.365	.875	.525	
<b>100</b>	16.97	10.425	.985	.585	
<b>W18 x 35</b>	17.70	6.000	.425	.300	
<b>40</b>	17.90	6.015	.525	.315	
<b>46</b>	18.06	6.060	.605	.360	
<b>50</b>	17.99	7.495	.570	.355	
<b>55</b>	18.11	7.530	.630	.390	
<b>60</b>	18.24	7.555	.695	.415	
<b>65</b>	18.35	7.590	.750	.450	
<b>71</b>	18.47	7.635	.810	.495	
<b>76</b>	18.21	11.035	.680	.425	
<b>86</b>	18.39	11.090	.770	.480	
<b>97</b>	18.59	11.145	.870	.535	
<b>106</b>	18.73	11.200	.940	.590	
<b>119</b>	18.97	11.265	1.060	.655	
<b>130</b>	19.25	11.160	1.200	.670	
<b>143</b>	19.49	11.220	1.320	.730	
<b>158</b>	19.72	11.300	1.440	.810	
<b>W21 x 44</b>	20.66	6.500	.450	.350	
<b>50</b>	20.83	6.530	.535	.380	
<b>57</b>	21.06	6.555	.650	.405	
<b>62</b>	20.99	8.240	.615	.400	
<b>68</b>	21.13	8.270	.685	.430	
<b>73</b>	21.24	8.295	.740	.455	
<b>83</b>	21.43	8.355	.835	.515	
<b>93</b>	21.62	8.420	.930	.580	
<b>101</b>	21.36	12.290	.800	.500	
<b>111</b>	21.51	12.340	.875	.550	
<b>122</b>	21.68	12.390	.960	.600	
<b>132</b>	21.83	12.440	1.035	.650	
<b>147</b>	22.06	12.510	1.150	.720	
<b>166</b>	22.48	12.420	1.360	.750	

\*ASTM A 36, ASME SA-36, ASTM A 709 Grade 36 Available—Plain Ends  
 Continued on following page

**STEEL WIDE FLANGE BEAMS  
"W" SHAPES\***  
ASTM A 992 ASTM A 572 Grade 50  
ASTM A 709 Grade 50



Identification Color: Red

Section Number	Weight Per Ft. Lbs.	Depth <i>d</i> In.	Flange		Web <i>t</i> In.			
			Width <i>b</i> In.	Thick <i>t<sub>f</sub></i> In.				
<b>W24</b> x <b>55</b>	.....	23.57	.....	7.005	.....	.505	.....	.395
<b>62</b>		23.74		7.040		.590		.430
<b>68</b>		23.73		8.965		.585		.415
<b>76</b>		23.92		8.990		.680		.440
<b>84</b>		24.10		9.020		.770		.470
<b>94</b>		24.31		9.065		.875		.515
<b>103</b>		24.53		9.000		.980		.550
<b>104</b>		24.06		12.750		.750		.500
<b>117</b>		24.26		12.800		.850		.550
<b>131</b>		24.48		12.855		.960		.605
<b>146</b>		24.74		12.900		1.090		.650
<b>162</b>		25.00		12.955		1.220		.705
<b>176</b>		25.24		12.890		1.340		.750
<b>192</b>		25.47		12.950		1.460		.810
<b>W27</b> x <b>84</b>	.....	26.71	.....	9.960	.....	.640	.....	.460
<b>94</b>		26.92		9.990		.745		.490
<b>102</b>		27.09		10.015		.830		.515
<b>114</b>		27.29		10.070		.930		.570
<b>129</b>		27.63		10.010		1.100		.610
<b>146</b>		27.38		13.965		.975		.605
<b>161</b>		27.59		14.020		1.080		.660
<b>178</b>		27.81		14.085		1.190		.725
<b>194</b>		28.11		14.035		1.340		.750
<b>W30</b> x <b>90</b>	.....	29.53	.....	10.400	.....	.610	.....	.470
<b>99</b>		29.65		10.450		.670		.520
<b>108</b>		29.83		10.475		.760		.545
<b>116</b>		30.01		10.495		.850		.565
<b>124</b>		30.17		10.515		.930		.585
<b>132</b>		30.31		10.545		1.000		.615
<b>148</b>		30.67		10.480		1.180		.650
<b>173</b>		30.44		14.985		1.065		.655
<b>191</b>		30.68		15.040		1.185		.710
<b>211</b>		30.94		15.105		1.315		.775
<b>235</b>		31.30		15.055		1.500		.830
<b>W33</b> x <b>118</b>	.....	32.86	.....	11.480	.....	.740	.....	.550
<b>130</b>		33.09		11.510		.855		.580
<b>141</b>		33.00		11.535		.960		.605
<b>152</b>		33.49		11.565		1.055		.635
<b>169</b>		33.82		11.500		1.220		.670
<b>201</b>		33.68		15.745		1.150		.715
<b>221</b>		33.93		15.805		1.275		.775
<b>241</b>		34.18		15.860		1.400		.830
<b>W36</b> x <b>135</b>	.....	35.55	.....	11.950	.....	.790	.....	.600
<b>150</b>		35.85		11.975		.940		.625
<b>160</b>		36.01		12.000		1.020		.650
<b>170</b>		36.17		12.030		1.100		.680
<b>182</b>		36.33		12.075		1.180		.725
<b>194</b>		36.49		12.115		1.260		.765
<b>210</b>		36.69		12.180		1.360		.830
<b>230</b>		35.90		16.470		1.260		.760
<b>232</b>		37.12		12.120		1.570		.870
<b>245</b>		36.08		16.510		1.350		.800
<b>256</b>		37.43		12.215		1.730		.960
<b>260</b>		36.26		16.550		1.440		.840
<b>280</b>		36.52		16.595		1.570		.885
<b>300</b>		36.74		16.655		1.680		.945
<b>328</b>		37.09		16.630		1.850		1.020
<b>W40</b> x <b>149</b>	.....	38.20	.....	11.810	.....	.830	.....	.630
<b>167</b>		38.59		11.810		1.025		.650
<b>199</b>		38.67		15.750		1.065		.650
<b>211</b>		39.37		11.810		1.415		.750
<b>249</b>		39.38		15.750		1.420		.750
<b>277</b>		39.69		15.830		1.575		.830
<b>297</b>		39.84		15.825		1.650		.930
<b>362</b>		40.55		16.020		2.010		1.120
<b>397</b>		40.95		16.120		2.200		1.220

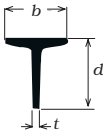
\*ASTM A 36, ASME SA-36, ASTM A 709 Grade 36 Available—Plain Ends



**STEEL CHANNELS**  
**Bar Size**  
**ASTM A 36 ASME SA-36**  
**ASTM A 709 Grade 36**

Random Lengths 20 Ft.  
 Identification Color: Plain Ends

Size in Inches			Lbs. Per Foot	Est. Lbs. 20'	Size in Inches			Lbs. Per Foot	Est. Lbs. 20'
d	b	t			d	b	t		
<b>3/4</b>	<b>x 3/8</b>	<b>x 1/8</b>	.56	11.20	<b>2</b>	<b>x 1/2</b>	<b>x 1/8</b>	1.43	28.60
<b>1</b>	<b>x 1/2</b>	<b>x 1/8</b>	.84	16.80	<b>2</b>	<b>x 9/16</b>	<b>x 3/16</b>	1.86	37.20
<b>1 1/4</b>	<b>x 1/2</b>	<b>x 1/8</b>	1.01	20.20	<b>2</b>	<b>x 5/8</b>	<b>x 1/4</b>	2.28	45.60
<b>1 1/2</b>	<b>x 1/2</b>	<b>x 1/8</b>	1.12	22.40	<b>2</b>	<b>x 1</b>	<b>x 1/8</b>	1.59	31.80
<b>1 1/2</b>	<b>x 9/16</b>	<b>x 3/16</b>	1.44	28.80	<b>2</b>	<b>x 1</b>	<b>x 3/16</b>	2.32	46.40
					<b>2 1/2</b>	<b>x 5/8</b>	<b>x 3/16</b>	2.27	45.40



**STEEL TEES**  
**Bar Size**  
**ASTM A 36 ASME SA-36**  
**ASTM A 709 Grade 36**

Random Lengths 20 Ft.  
 Identification Color: Plain Ends

Flange Inches b	Stem Inches d	Thickness Inches t	Lbs. Per Foot	Est. Lbs. 20'
<b>1 1/2</b>	<b>1 1/2</b>	<b>3/16</b>	1.80	36.00
		<b>1/4</b>	2.43	48.60
<b>2</b>	<b>2</b>	<b>1/4</b>	3.62	72.40



**STEEL RAILS**  
 New Billet Steel  
 ASCE Sections  
 (Standard holes both ends)  
 Identification Color: Plain Ends

Lbs. per Yard	Section No.	Height in Inches d	Width of Base b	Width of Head c	Random Lengths Feet	Track Bolts to Be Used
25	<b>2540</b>	<b>2 3/4</b>	<b>2 3/4</b>	<b>1 1/2</b>	30	<b>1/2 x 2 1/4</b>
30	<b>3040</b>	<b>3 1/8</b>	<b>3 1/8</b>	<b>1 11/16</b>	30	<b>5/8 x 2 1/2</b>
40	<b>4040</b>	<b>3 1/2</b>	<b>3 1/2</b>	<b>1 7/8</b>	30	<b>3/4 x 3</b>
60	<b>6040</b>	<b>4 1/4</b>	<b>4 1/4</b>	<b>2 3/8</b>	33	<b>3/4 x 3 1/2</b>

**STEEL CHANNELS**  
**“C” SHAPES**  
**“MC” SHAPES**  
**ASTM A 36 ASME SA-36**  
**ASTM A 709 Grade 36**



Identification Color: Plain Ends

Section Number	Weight Per Ft. Lbs.	Depth d In.	Width b In.	Web t In.	Section Number	Weight Per Ft. Lbs.	Depth d In.	Width b In.	Web t In.
<b>C 3 x 4.1</b>	4.1	3	1.410	.170	<b>C 9 x 13.4</b>	13.4	9	2.433	.233
<b>5</b>	5	3	1.498	.258	<b>15</b>	15	9	2.485	.285
<b>6</b>	6	3	1.596	.356	<b>MC 9 x 23.9</b>	23.9	9	3.450	.400
<b>MC 3 x 7.1</b>	7.1	3	1.938	.312	<b>25.4</b>	25.4	9	3.500	.450
<b>C 4 x 5.4</b>	5.4	4	1.584	.184	<b>MC 10 x 6.5</b>	6.5	10	1.127	.152
<b>7.25</b>	7.25	4	1.721	.321	<b>8.4</b>	8.4	10	1.500	.170
<b>MC 4 x 13.8</b>	13.8	4	2.500	.500	<b>C 10 x 15.3</b>	15.3	10	2.600	.240
<b>C 5 x 6.7</b>	6.7	5	1.750	.190	<b>20</b>	20	10	2.739	.379
<b>9</b>	9	5	1.885	.325	<b>MC 10 x 22</b>	22	10	3.315	.290
<b>C 6 x 8.2</b>	8.2	6	1.920	.200	<b>C 10 x 25</b>	25	10	2.886	.526
<b>10.5</b>	10.5	6	2.034	.314	<b>MC 10 x 28.5</b>	28.5	10	3.950	.425
<b>MC 6 x 12</b>	12	6	2.497	.310	<b>C 10 x 30</b>	30	10	3.033	.673
<b>C 6 x 13</b>	13	6	2.157	.437	<b>MC 10 x 33.6</b>	33.6	10	4.100	.575
<b>MC 6 x 15.3</b>	15.3	6	3.500	.340	<b>MC 12 x 10.6</b>	10.6	12	1.500	.190
<b>16.3</b>	16.3	6	3.000	.375	<b>C 12 x 20.7</b>	20.7	12	2.942	.282
<b>18</b>	18	6	3.504	.379	<b>25</b>	25	12	3.047	.387
<b>C 7 x 9.8</b>	9.8	7	2.090	.210	<b>30</b>	30	12	3.170	.510
<b>12.25</b>	12.25	7	2.194	.314	<b>MC 12 x 35</b>	35	12	3.767	.467
<b>14.75</b>	14.75	7	2.299	.419	<b>45</b>	45	12	4.012	.712
<b>MC 7 x 19.1</b>	19.1	7	3.452	.352	<b>50</b>	50	12	4.135	.835
<b>22.7</b>	22.7	7	3.603	.503	<b>MC 13 x 31.8</b>	31.8	13	4.000	.375
<b>MC 8 x 8.5</b>	8.5	8	1.874	.179	<b>40</b>	40	13	4.185	.560
<b>C 8 x 11.5</b>	11.5	8	2.260	.220	<b>50</b>	50	13	4.412	.787
<b>13.75</b>	13.75	8	2.343	.303	<b>C 15 x 33.9</b>	33.9	15	3.400	.400
<b>MC 8 x 18.7</b>	18.7	8	2.978	.353	<b>40</b>	40	15	3.520	.520
<b>C 8 x 18.75</b>	18.75	8	2.527	.487	<b>50</b>	50	15	3.716	.716
<b>MC 8 x 20</b>	20	8	3.025	.400	<b>MC 18 x 42.7</b>	42.7	18	3.950	.450
<b>21.4</b>	21.4	8	3.450	.375	<b>45.8</b>	45.8	18	4.000	.500
<b>22.8</b>	22.8	8	3.502	.427	<b>51.9</b>	51.9	18	4.100	.600
					<b>58</b>	58	18	4.200	.700



**STEEL ANGLES**  
**Bar Size\***  
**ASTM A 36 ASME SA-36**  
**ASTM A 709 Grade 36**

Random Lengths 20, 40 Ft.  
 Identification Color: Plain Ends

Size in Inches	t	Lbs. Per Ft.	Est. Lbs.	
			20 Ft.	40 Ft.
L 1/2 x 1/2 x 1/8	...	.38	7.60	...
L 5/8 x 5/8 x 1/8	...	.48	9.60	...
L 3/4 x 3/4 x 1/8	...	.59	11.80	...
L 7/8 x 7/8 x 1/8	...	.70	14.00	...
L 1 x 5/8 x 1/8	...	.64	12.80	...
L 1 x 3/4 x 1/8	...	.70	14.00	...
L 1 x 1 x 1/8	...	.80	16.00	32.00
	3/16	1.16	23.20	...
	1/4	1.49	29.80	...
L 1 1/4 x 1 1/4 x 1/8	...	1.01	20.20	40.40
	3/16	1.48	29.60	59.20
	1/4	1.92	38.40	76.80
L 1 3/8 x 7/8 x 1/8	...	.91	18.20	...
	3/16	1.32	26.40	...
L 1 1/2 x 1 1/4 x 3/16	...	1.65	33.00	...
L 1 1/2 x 1 1/2 x 1/8	...	1.23	24.60	49.20
	3/16	1.80	36.00	72.00
	1/4	2.34	46.80	93.60
L 1 3/4 x 1 1/4 x 1/8	...	1.23	24.60	...
	3/16	1.80	36.00	...
	1/4	2.34	46.80	...
L 1 3/4 x 1 3/4 x 1/8	...	1.44	28.80	57.60
	3/16	2.12	42.40	84.80
	1/4	2.77	55.40	110.80
L 2 x 1 1/4 x 3/16	...	1.96	39.20	...
	1/4	2.55	51.00	...
L 2 x 1 1/2 x 1/8	...	1.44	28.80	...
	3/16	2.12	42.40	84.80
	1/4	2.77	55.40	110.80
L 2 x 2 x 1/8	...	1.65	33.00	66.00
	3/16	2.44	48.80	97.60
	1/4	3.19	63.80	127.60
	5/16	3.92	78.40	156.80
	3/8	4.70	94.00	188.00
L 2 1/2 x 1 1/2 x 3/16	...	2.44	48.80	97.60
	1/4	3.19	63.80	127.60
	5/16	3.92	78.40	...
L 2 1/2 x 2 x 3/16	...	2.75	55.00	110.00
	1/4	3.62	72.40	144.80
	5/16	4.50	90.00	180.00
	3/8	5.30	106.00	...
L 2 1/2 x 2 1/2 x 3/16	...	3.07	61.40	122.80
	1/4	4.10	82.00	164.00
	5/16	5.00	100.00	200.00
	3/8	5.90	118.00	236.00
	1/2	7.70	154.00	308.00

\*Also available Pickled Dry or Oiled,  
 Mechanically Descaled Dry or Oiled, or Galvanized

Continued on following page



## STEEL ANGLES "L" SHAPES\*



**ASTM A 36 ASME SA-36**  
**ASTM A 709 Grade 36**

Identification Color: Plain Ends

Continued from preceding page

Size in Inches		<i>t</i>	Lbs. Per Foot	Size in Inches		<i>t</i>	Lbs. Per Foot
<b>L 3</b>	<b>x 2</b>	x 3/16	3.1	<b>L 5</b>	<b>x 3</b>	x 1/4	6.6
		1/4	4.1			5/16	8.2
		5/16	5.0			3/8	9.8
		3/8	5.9			1/2	12.8
		1/2	7.7				
<b>L 3</b>	<b>x 2 1/2</b>	x 1/4	4.5	<b>L 5</b>	<b>x 3 1/2</b>	x 1/4	7.0
		5/16	5.6			5/16	8.7
		3/8	6.6			3/8	10.4
		1/2	13.6				
			5/8			16.8	
<b>L 3</b>	<b>x 3</b>	x 3/16	3.7	<b>L 5</b>	<b>x 5</b>	x 5/16	10.3
		1/4	4.9			3/8	12.3
		5/16	6.1			1/2	16.2
		3/8	7.2			5/8	20.0
		1/2	9.4			3/4	23.6
<b>L 3 1/2</b>	<b>x 2 1/2</b>	x 1/4	4.9	<b>L 6</b>	<b>x 3 1/2</b>	x 5/16	9.8
		5/16	6.1			3/8	11.7
		3/8	7.2			1/2	15.3
		1/2	9.4				
<b>L 3 1/2</b>	<b>x 3</b>	x 1/4	5.4	<b>L 6</b>	<b>x 4</b>	x 5/16	10.3
		5/16	6.6			3/8	12.3
		3/8	7.9			1/2	16.2
		1/2	10.2			5/8	20.0
			3/4			23.6	
<b>L 3 1/2</b>	<b>x 3 1/2</b>	x 1/4	5.8	<b>L 6</b>	<b>x 6</b>	x 3/8	14.9
		5/16	7.2			1/2	19.6
		3/8	8.5			5/8	24.2
		1/2	11.1			3/4	28.7
		7/8	33.1				
			<b>1</b>			37.4	
<b>L 4</b>	<b>x 3</b>	x 1/4	5.8	<b>L 7</b>	<b>x 4</b>	x 3/8	13.6
		5/16	7.2			1/2	17.9
		3/8	8.5			5/8	22.1
		1/2	11.1			3/4	26.2
<b>L 4</b>	<b>x 3 1/2</b>	x 1/4	6.2	<b>L 8</b>	<b>x 4</b>	x 1/2	19.6
		5/16	7.7			3/4	28.7
		3/8	9.1	<b>L 8</b>	<b>x 6</b>	x 1/2	23.0
		1/2	11.9			3/4	33.8
<b>L 4</b>	<b>x 4</b>	x 1/4	6.6		<b>1</b>	44.2	
		5/16	8.2	<b>L 8</b>	<b>x 8</b>	x 1/2	26.4
		3/8	9.8			5/8	32.7
		1/2	12.8			3/4	38.9
		5/8	15.7			<b>1</b>	51.0
		3/4	18.5				

\*Also available Pickled Dry or Oiled,  
Mechanically Descaled Dry or Oiled, or Galvanized



**STEEL SHAPES**  
**HIGH STRENGTH LOW ALLOY**

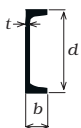
**ASTM A 588**  
**ASTM A 709 Grade 50W**

Identification Color: Pink

**ANGLES**

Random Lengths  
 Bar Angles 20 Ft.  
 "L" Angles (Structural) 20, 40 Ft.

Size in Inches	<i>t</i>	Lbs. Per Foot
<b>1 1/2 x 1 1/2 x</b>	<b>3/16</b>	1.80
<b>L 3 x 3 x</b>	<b>3/8</b>	7.2
<b>L 3 1/2 x 3 1/2 x</b>	<b>3/8</b>	8.5



**HIGH STRENGTH LOW ALLOY**

**ASTM A 588**  
**ASTM A 709 Grade 50W**

Identification Color: Pink

**"C" SHAPES (Channels)**

Random Lengths 40 Ft.

Section Number	Weight Per Ft. Lbs.	Depth <i>d</i> In.	Width <i>b</i> In.	Web <i>t</i> In.
<b>C 8 x</b>	<b>11.5</b>	8.00	2.260	.220