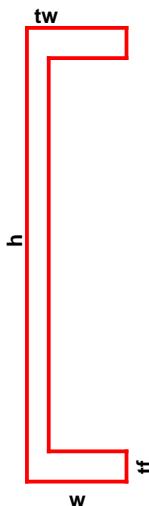


## MC18X42.7



Name	MC18X42.7	
Weight	43.59	lb/ft
Height, $h$	18	in
Width, $w$	3.95	in
Web Thickness, $tw$	0.625	in
Flange Thickness, $tf$	0.45	in
Area, $A$	12.6	in <sup>2</sup>
Shear Area, $SA_2$	8.1	in <sup>2</sup>
Shear Area, $SA_3$	4.9375	in <sup>2</sup>
Inertia, $I_{22}$	14.3	in <sup>4</sup>
Interia, $I_{33}$	554	in <sup>4</sup>
Centroid, $x_0$	0.877	in
Centroid, $y_0$	9.0	in
Torsional, $J$	1.23	in <sup>4</sup>
Radius of Gyration, $R_2$	1.065327	in
Radius of Gyration, $R_3$	6.630856	in
Section Modulus, $S_2$ -Left	4.653433	in <sup>3</sup>
Section Modulus, $S_2$ -Right	16.30559	in <sup>3</sup>
Section Modulus, $S_3$ -Top	61.55556	in <sup>3</sup>
Section Modulus, $S_3$ -Bottom	61.55556	in <sup>3</sup>
Plastic Modulus, $Z_2$	8.82	in <sup>3</sup>
Plastic Modulus, $Z_3$	75.1	in <sup>3</sup>