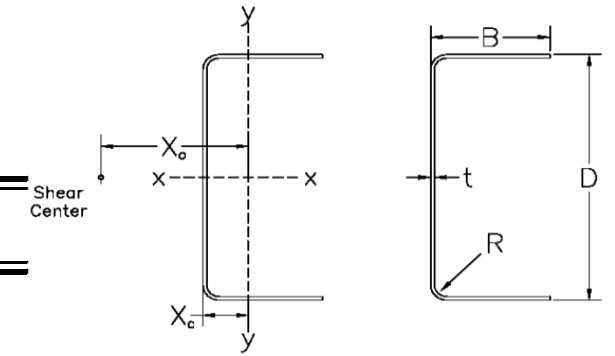




Channel Sections: Gross Section Properties



Member	Ga.	Dimensions				Gross Section Properties													
		D (in)	B (in)	t (in)	R (in)	Area (in <sup>2</sup> )	Weight (lb/ft)	Axis X-X			Axis Y-Y				Centroid	Shear Center	Torsional Properties		
								I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> TOP & BOT (in <sup>3</sup> )	r <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	S <sub>y</sub> LEFT (in <sup>3</sup> )	S <sub>y</sub> RIGHT (in <sup>3</sup> )	r <sub>y</sub> (in)	X <sub>c</sub> (in)	X <sub>o</sub> (in)	J (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	j (in)
Base Track	16	2.625	1.6875	0.059	0.1000	0.340	1.16	0.394	0.300	1.076	0.102	0.201	0.086	0.547	0.506	1.150	0.0004	0.11	1.737
4.1875 x 3	12	4.1875	3	0.105	0.1875	1.026	3.49	3.082	1.472	1.733	0.981	1.041	0.477	0.978	0.942	2.115	0.0038	2.76	2.973
4.1875 x 3	14	4.1875	3	0.07	0.1875	0.690	2.35	2.108	1.007	1.748	0.667	0.719	0.322	0.983	0.928	2.122	0.0011	1.91	2.990
4.1875 x 3	16	4.1875	3	0.059	0.1875	0.583	1.98	1.791	0.856	1.753	0.566	0.613	0.272	0.985	0.923	2.125	0.0007	1.63	2.995
4.1875 x 3	18	4.1875	3	0.0466	0.1875	0.462	1.57	1.428	0.682	1.758	0.450	0.490	0.216	0.987	0.918	2.128	0.0003	1.31	3.001
6.1875 x 3	12	6.1875	3	0.105	0.1875	1.236	4.20	7.491	2.421	2.462	1.119	1.414	0.507	0.951	0.791	1.860	0.0045	7.02	3.601
6.1875 x 3	14	6.1875	3	0.07	0.1875	0.830	2.82	5.092	1.646	2.477	0.760	0.978	0.342	0.957	0.777	1.869	0.0014	4.84	3.618
6.1875 x 3	16	6.1875	3	0.059	0.1875	0.701	2.38	4.318	1.396	2.482	0.644	0.834	0.289	0.958	0.773	1.871	0.0008	4.12	3.623
8.1875 x 2	12	8.1875	2	0.105	0.1875	1.236	4.20	10.941	2.673	2.975	0.389	1.037	0.240	0.561	0.375	0.915	0.0045	4.53	5.180
8.1875 x 2	14	8.1875	2	0.07	0.1875	0.830	2.82	7.430	1.815	2.992	0.266	0.737	0.162	0.566	0.361	0.924	0.0014	3.14	5.188
8.1875 x 2	16	8.1875	2	0.059	0.1875	0.701	2.38	6.297	1.538	2.997	0.226	0.634	0.138	0.568	0.357	0.926	0.0008	2.67	5.189
8.1875 x 3	12	8.1875	3	0.105	0.1875	1.446	4.92	14.371	3.511	3.153	1.217	1.780	0.525	0.917	0.684	1.665	0.0053	13.75	4.594
8.1875 x 3	14	8.1875	3	0.07	0.1875	0.970	3.30	9.735	2.378	3.168	0.826	1.233	0.354	0.923	0.670	1.674	0.0016	9.43	4.609
8.1875 x 3	16	8.1875	3	0.059	0.1875	0.819	2.79	8.246	2.014	3.173	0.700	1.052	0.300	0.924	0.666	1.676	0.0010	8.02	4.614
10.1875 x 3	12	10.1875	3	0.105	0.1875	1.656	5.63	24.143	4.740	3.818	1.290	2.137	0.539	0.883	0.604	1.509	0.0061	23.17	5.943
10.1875 x 3	14	10.1875	3	0.07	0.1875	1.110	3.77	16.318	3.204	3.834	0.875	1.484	0.363	0.888	0.590	1.518	0.0018	15.86	5.954
10.1875 x 3	16	10.1875	3	0.059	0.1875	0.937	3.19	13.813	2.712	3.839	0.742	1.267	0.307	0.890	0.585	1.521	0.0011	13.48	5.958

- Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- Material: A1011 HSLAS Grade 55 Class 1 Steel or A653 SS Grade 55 Steel
- Strength Increase due to Cold Working has been applied where applicable

- Web Crippling values are based on a 4 inch bearing length, one flange fastened to support
- Appropriate factors of safety have been applied for Allowable Stress Design (ASD)
- Strength calculations based on a fully braced condition
- Consult with an engineering professional before using the above design aids