

**NOTES:**

Section properties and allowable are computed in accordance with AISI North American Specification, 2007 edition

$I_x$  and  $I_y$  are for deflection determination

$S_x$  and  $S_y$  are for bending

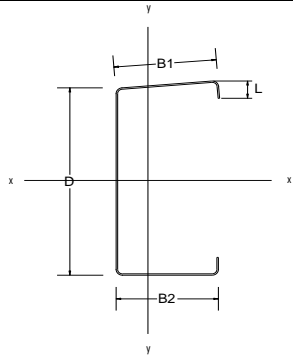
Material is either ASTM A653-06 Gr. 55 or A1011-04 HSLAS Gr. 55 Cl-1

$F_y = 55$  ksi

$F_u = 70$  ksi



Section Name	DIMENSIONAL PROPERTIES						ALLOWABLES			AXIS X-X				AXIS Y-Y		
	D x B1 x B2 x Slope (in)	Gage	Thickness (in)	Weight (lb/ft)	Area (in <sup>2</sup> )	Lip (in)	Positive Ma (k-ft)	Negative Ma (k-ft)	Va (kips)	$I_x$ (in <sup>4</sup> )	Positive $S_{xe}$ (in <sup>3</sup> )	Negative $S_{xe}$ (in <sup>3</sup> )	$R_x$ (in)	$I_y$ (in <sup>4</sup> )	$S_{ye}$ (in <sup>3</sup> )	$R_y$ (in)
6SSE16	6.0 x 4.0 x 4.0 x 1	16	0.059	2.997	0.881	0.762	3.303	3.592	3.321	5.840	1.204	1.309	2.574	1.907	0.652	1.471
6SSE14	6.0 x 4.0 x 4.0 x 1	14	0.070	3.555	1.046	0.789	4.098	4.451	5.432	6.898	1.493	1.622	2.569	2.263	0.795	1.471
6SSE13	6.0 x 4.0 x 4.0 x 1	13	0.085	4.317	1.270	0.824	5.259	5.699	8.010	8.325	1.916	2.076	2.561	2.748	0.995	1.471
6SSE12	6.0 x 4.0 x 4.0 x 1	12	0.105	5.333	1.568	0.871	6.914	7.460	11.829	10.197	2.519	2.718	2.550	3.394	1.267	1.471
6SSE16	6.0 x 4.0 x 4.0 x 4	16	0.059	3.197	0.940	1.239	3.785	4.646	3.488	7.226	1.379	1.693	2.772	2.217	0.727	1.535
6SSE14	6.0 x 4.0 x 4.0 x 4	14	0.070	3.555	1.046	0.764	3.655	4.915	5.755	8.035	1.332	1.791	2.772	2.168	0.755	1.440
6SSE13	6.0 x 4.0 x 4.0 x 4	13	0.085	4.317	1.270	0.797	4.715	6.285	8.484	9.709	1.718	2.290	2.765	2.633	0.942	1.440
6SSE12	6.0 x 4.0 x 4.0 x 4	12	0.105	5.333	1.568	0.842	6.264	7.944	12.661	11.914	2.282	2.895	2.756	3.255	1.197	1.441
6SSE14	6.0 x 2.75 x 5.0 x 1	14	0.070	3.555	1.046	0.914	4.363	4.453	5.424	6.485	1.590	1.622	2.490	2.765	0.740	1.626
6SSE12	6.0 x 2.75 x 5.0 x 1	12	0.105	5.333	1.568	0.996	7.278	6.959	11.810	9.576	2.652	2.536	2.471	4.143	1.175	1.625
6SSE14	6.0 x 2.75 x 5.0 x 4	14	0.070	3.555	1.046	0.889	4.124	4.408	5.633	7.188	1.503	1.606	2.622	2.740	0.729	1.619
6SSE12	6.0 x 2.75 x 5.0 x 4	12	0.105	5.333	1.568	0.967	7.095	6.815	12.390	10.644	2.585	2.483	2.605	4.105	1.157	1.618
6SSE14	6.0 x 5.0 x 5.0 x 1	14	0.070	4.031	1.186	0.788	4.143	4.612	5.439	8.311	1.510	1.681	2.648	3.907	1.199	1.815
6SSE12	6.0 x 5.0 x 5.0 x 1	12	0.105	6.047	1.778	0.871	7.098	7.856	11.844	12.295	2.586	2.862	2.629	5.863	1.795	1.816
6SSE14	6.0 x 5.0 x 5.0 x 4	14	0.070	4.031	1.186	0.764	3.598	5.161	5.852	10.054	1.311	1.880	2.912	3.736	1.074	1.775
6SSE12	6.0 x 5.0 x 5.0 x 4	12	0.105	6.047	1.778	0.842	6.240	8.902	12.878	14.920	2.274	3.244	2.897	5.611	1.714	1.776



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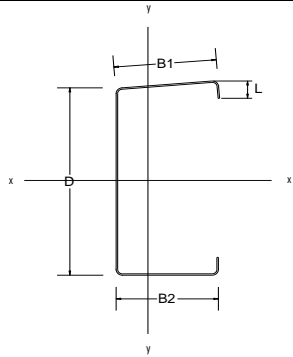
Material is either ASTM A653-06 Gr. 55 or A1011-04 HSLAS Gr. 55 Cl-I

$F_y = 55$  ksi

$F_u = 70$  ksi



Section Name	DIMENSIONAL PROPERTIES						ALLOWABLES			AXIS X-X				AXIS Y-Y		
	D x B1 x B2 x Slope (in)	Gage	Thickness (in)	Weight (lb/ft)	Area (in <sup>2</sup> )	Lip (in)	Positive Ma (k-ft)	Negative Ma (k-ft)	Va (kips)	$I_x$ (in <sup>4</sup> )	Positive $S_{xe}$ (in <sup>3</sup> )	Negative $S_{xe}$ (in <sup>3</sup> )	$R_x$ (in)	$I_y$ (in <sup>4</sup> )	$S_{ye}$ (in <sup>3</sup> )	$R_y$ (in)
7SSE16	7.0 x 4.0 x 4.0 x 1	16	0.059	3.197	0.940	0.762	4.026	4.217	2.811	8.182	1.467	1.536	2.950	2.012	0.655	1.463
7SSE14	7.0 x 4.0 x 4.0 x 1	14	0.070	3.793	1.116	0.789	5.062	5.448	4.709	9.671	1.844	1.985	2.944	2.388	0.799	1.463
7SSE13	7.0 x 4.0 x 4.0 x 1	13	0.085	4.606	1.355	0.824	6.476	6.955	8.005	11.682	2.360	2.534	2.937	2.900	1.001	1.463
7SSE12	7.0 x 4.0 x 4.0 x 1	12	0.105	5.690	1.673	0.871	8.486	9.080	12.214	14.330	3.092	3.309	2.926	3.584	1.278	1.463
7SSE16	7.0 x 4.0 x 4.0 x 4	16	0.059	3.398	0.999	1.239	4.623	5.376	2.930	9.887	1.684	1.959	3.145	2.343	0.743	1.531
7SSE14	7.0 x 4.0 x 4.0 x 4	14	0.070	3.793	1.116	0.764	4.536	5.897	4.907	10.983	1.653	2.149	3.138	2.286	0.752	1.431
7SSE13	7.0 x 4.0 x 4.0 x 4	13	0.085	4.895	1.440	0.797	7.036	8.899	7.597	17.530	2.564	3.243	3.489	2.905	0.953	1.420
7SSE12	7.0 x 4.0 x 4.0 x 4	12	0.105	5.690	1.673	0.842	7.713	9.614	12.824	16.314	2.810	3.503	3.122	3.434	1.207	1.433
7SSE14	7.0 x 2.75 x 5.0 x 1	14	0.070	3.793	1.116	0.914	5.384	5.439	4.703	9.162	1.962	1.982	2.866	2.904	0.744	1.613
7SSE12	7.0 x 2.75 x 5.0 x 1	12	0.105	5.690	1.673	0.996	8.959	8.534	12.198	13.564	3.264	3.110	2.847	4.354	1.187	1.613
7SSE14	7.0 x 2.75 x 5.0 x 4	14	0.070	3.793	1.116	0.889	5.089	5.381	4.819	9.975	1.854	1.961	2.990	2.874	0.733	1.605
7SSE12	7.0 x 2.75 x 5.0 x 4	12	0.105	5.690	1.673	0.967	8.696	8.325	12.590	14.801	3.168	3.033	2.974	4.309	1.169	1.605
7SSE14	7.0 x 5.0 x 5.0 x 1	14	0.070	4.269	1.256	0.788	5.130	5.571	4.714	11.564	1.869	2.030	3.035	4.125	1.130	1.813
7SSE12	7.0 x 5.0 x 5.0 x 1	12	0.105	6.404	1.883	0.871	8.727	9.550	12.227	17.145	3.180	3.480	3.017	6.195	1.809	1.814
7SSE14	7.0 x 5.0 x 5.0 x 4	14	0.070	4.269	1.256	0.764	4.483	5.964	4.978	13.567	1.634	2.173	3.287	3.942	1.078	1.772
7SSE12	7.0 x 5.0 x 5.0 x 4	12	0.105	6.404	1.883	0.842	7.710	10.616	13.012	20.165	2.809	3.868	3.272	5.924	1.728	1.774



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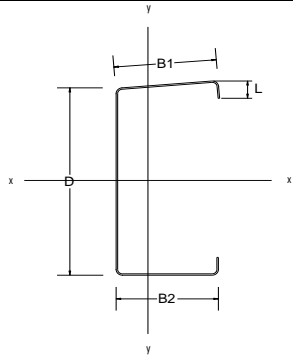
Material is either ASTM A653-06 Gr. 55 or A1011-04 HSLAS Gr. 55 Cl-1

$F_y = 55$  ksi

$F_u = 70$  ksi



Section Name	DIMENSIONAL PROPERTIES						ALLOWABLES			AXIS X-X				AXIS Y-Y		
	D x B1 x B2 x Slope (in)	Gage	Thickness (in)	Weight (lb/ft)	Area (in <sup>2</sup> )	Lip (in)	Positive Ma (k-ft)	Negative Ma (k-ft)	Va (kips)	$I_x$ (in <sup>4</sup> )	Positive $S_{xe}$ (in <sup>3</sup> )	Negative $S_{xe}$ (in <sup>3</sup> )	$R_x$ (in)	$I_y$ (in <sup>4</sup> )	$S_{ye}$ (in <sup>3</sup> )	$R_y$ (in)
8SSE16	8.0 x 3.375 x 5.0 x 1	16	0.059	3.598	1.059	1.075	5.423	5.756	2.435	11.517	1.976	2.097	3.299	2.933	0.718	1.665
8SSE14	8.0 x 3.375 x 5.0 x 1	14	0.070	4.269	1.256	1.101	7.142	7.256	4.077	13.615	2.602	2.644	3.293	3.478	0.879	1.664
8SSE13	8.0 x 3.375 x 5.0 x 1	13	0.085	5.184	1.525	1.137	8.852	9.153	7.328	16.450	3.226	3.335	3.285	4.221	1.104	1.664
8SSE12	8.0 x 3.375 x 5.0 x 1	12	0.105	6.404	1.884	1.184	11.561	11.612	12.201	20.184	4.213	4.231	3.274	5.209	1.412	1.663
8SSE16	8.0 x 3.375 x 5.0 x 4	16	0.059	3.598	1.058	1.052	5.396	5.943	2.506	12.646	1.966	2.166	3.457	2.890	0.703	1.652
8SSE14	8.0 x 3.375 x 5.0 x 4	14	0.070	4.269	1.256	1.076	6.780	7.351	4.196	14.958	2.471	2.679	3.452	3.427	0.862	1.652
8SSE13	8.0 x 3.375 x 5.0 x 4	13	0.085	5.184	1.525	1.110	8.363	9.031	7.536	18.089	3.047	3.291	3.444	4.160	1.082	1.652
8SSE12	8.0 x 3.375 x 5.0 x 4	12	0.105	6.404	1.884	1.155	10.889	11.292	12.636	22.219	3.968	4.115	3.435	5.135	1.384	1.651
8SSE16	8.0 x 4.0 x 4.0 x 1	16	0.059	3.398	0.999	0.762	4.615	4.812	2.436	10.993	1.682	1.753	3.317	2.104	0.656	1.451
8SSE14	8.0 x 4.0 x 4.0 x 1	14	0.070	4.031	1.186	0.789	6.095	6.419	4.080	13.001	2.221	2.339	3.311	2.498	0.802	1.452
8SSE13	8.0 x 4.0 x 4.0 x 1	13	0.085	4.895	1.440	0.824	7.777	8.294	7.333	15.718	2.834	3.022	3.304	3.035	1.006	1.452
8SSE12	8.0 x 4.0 x 4.0 x 1	12	0.105	6.047	1.778	0.871	10.162	10.802	12.208	19.300	3.703	3.936	3.294	3.751	1.286	1.452
8SSE16	8.0 x 4.0 x 4.0 x 4	16	0.059	3.598	1.058	1.239	5.521	6.097	2.526	13.047	2.012	2.222	3.511	2.454	0.752	1.523
8SSE14	8.0 x 4.0 x 4.0 x 4	14	0.070	4.031	1.186	0.764	5.490	6.677	4.229	14.489	2.001	2.433	3.496	2.390	0.761	1.420
8SSE13	8.0 x 4.0 x 4.0 x 4	13	0.085	4.895	1.440	0.797	7.036	8.899	7.597	17.530	2.564	3.243	3.489	2.905	0.953	1.420
8SSE12	8.0 x 4.0 x 4.0 x 4	12	0.105	6.047	1.778	0.842	9.269	11.382	12.737	21.550	3.377	4.147	3.481	3.592	1.215	1.421



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Section Name	DIMENSIONAL PROPERTIES						ALLOWABLES			AXIS X-X				AXIS Y-Y		
	D x B1 x B2 x Slope (in)	Gage	Thickness (in)	Weight (lb/ft)	Area (in <sup>2</sup> )	Lip (in)	Positive Ma (k-ft)	Negative Ma (k-ft)	Va (kips)	$I_x$ (in <sup>4</sup> )	Positive $S_{xe}$ (in <sup>3</sup> )	Negative $S_{xe}$ (in <sup>3</sup> )	$R_x$ (in)	$I_y$ (in <sup>4</sup> )	$S_{ye}$ (in <sup>3</sup> )	$R_y$ (in)
8SSE14	8.0 x 2.75 x 5.0 x 1	14	0.070	4.031	1.186	0.914	6.269	6.492	4.031	12.393	2.284	2.365	3.233	3.026	0.747	1.598
8SSE12	8.0 x 2.75 x 5.0 x 1	12	0.105	6.047	1.778	0.996	10.748	10.207	12.194	18.382	3.916	3.719	3.215	4.539	1.196	1.598
8SSE14	8.0 x 2.75 x 5.0 x 4	14	0.070	4.031	1.186	0.889	6.063	6.418	4.162	13.314	2.209	2.339	3.351	2.992	0.736	1.589
8SSE12	8.0 x 2.75 x 5.0 x 4	12	0.105	6.047	1.778	0.967	10.405	9.935	12.534	19.786	3.791	3.620	3.336	4.488	1.177	1.589
8SSE14	8.0 x 5.0 x 5.0 x 1	14	0.070	4.507	1.326	0.788	6.030	6.372	4.083	15.444	2.197	2.322	3.413	4.320	1.133	1.805
8SSE12	8.0 x 5.0 x 5.0 x 1	12	0.105	6.761	1.988	0.871	10.464	11.349	12.220	22.936	3.813	4.135	3.396	6.491	1.820	1.807
8SSE14	8.0 x 5.0 x 5.0 x 4	14	0.070	4.507	1.326	0.764	5.444	6.754	4.283	17.707	1.984	2.461	3.655	4.126	1.082	1.764
8SSE12	8.0 x 5.0 x 5.0 x 4	12	0.105	6.671	1.988	0.842	9.293	12.433	12.899	26.352	3.386	4.530	3.640	6.203	1.738	1.766
10SSE14	10.0 x 4.0 x 4.0 x 1	14	0.070	4.507	1.326	0.789	7.703	7.967	3.219	21.476	2.807	2.903	4.025	2.683	0.805	1.423
10SSE13	10.0 x 4.0 x 4.0 x 1	13	0.085	5.473	1.610	0.824	10.628	11.173	5.781	25.990	3.872	4.071	4.018	3.262	1.012	1.424
10SSE12	10.0 x 4.0 x 4.0 x 1	12	0.105	6.761	1.988	0.871	13.818	14.544	10.942	31.959	5.035	5.299	4.009	4.034	1.296	1.424
10SSE14	10.0 x 4.0 x 4.0 x 4	14	0.070	4.507	1.326	0.764	7.232	8.215	3.313	23.312	2.635	2.993	4.194	2.565	0.764	1.391
10SSE13	10.0 x 4.0 x 4.0 x 4	13	0.085	5.473	1.610	0.797	9.699	11.472	5.946	28.229	3.534	4.180	4.188	3.118	0.959	1.392
10SSE12	10.0 x 4.0 x 4.0 x 4	12	0.105	6.761	1.988	0.842	12.695	15.210	11.247	34.742	4.626	5.542	4.180	3.859	1.225	1.393
10SSE14	10.0 x 2.75 x 5.0 x 1	14	0.070	4.507	1.326	0.914	7.877	8.540	3.216	20.659	2.870	3.112	3.948	3.232	0.751	1.561
10SSE12	10.0 x 2.75 x 5.0 x 1	12	0.105	6.671	1.988	0.996	14.641	13.845	10.932	30.726	5.335	5.045	3.931	4.852	1.208	1.562

