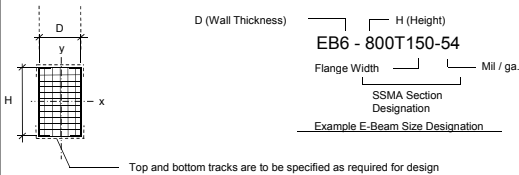


## E-BEAM™ NOMENCLATURE



The designer should specify the wall thickness and track shapes to be used in the E-Beam  
Structural section properties are per the SSMA standard shapes for the track shapes specified.  
The designer is responsible for determining the adequacy of the sections for their intended use.

## E-BEAM™ SECTION PROPERTIES TABLE

Design Thickness	Gauge	Gross Properties						Effective Properties				
		F <sub>y</sub>	Area	Weight	I <sub>x</sub>	S <sub>x</sub>	R <sub>x</sub>	I <sub>xe</sub>	S <sub>xe</sub>	M <sub>a</sub>	V <sub>a</sub>	
(in)	(No.)	(ksi)	(in <sup>2</sup> )	(lb/ft)	(in <sup>4</sup> )	(in <sup>3</sup> )	(in)	(in <sup>4</sup> )	(in <sup>3</sup> )	(k-in)	(lb)	
EBD-600T-150-43	0.0451	18	33	0.810	2.760	4.144	1.346	2.262	3.780	0.948	18.720	2754
EBD-600T-150-54	0.0566	16	50	1.018	3.460	5.222	1.686	2.265	4.800	1.218	36.480	5456
EBD-600T-150-68	0.0713	14	50	1.282	4.360	6.618	2.118	2.272	6.324	1.782	53.360	10700
EBD-800T-150-43	0.0451	18	33	0.992	3.380	8.288	2.030	2.890	7.378	1.310	25.900	2060
EBD-800T-150-54	0.0566	16	50	1.244	4.240	10.428	2.544	2.895	9.384	1.688	50.540	4078
EBD-800T-150-68	0.0713	14	50	1.566	5.340	13.188	3.198	2.902	12.722	2.510	75.160	8174
EBD-1000T-150-54	0.0566	16	50	1.470	5.000	18.122	3.554	3.511	15.760	2.158	64.580	3256
EBD-1000T-150-68	0.0713	14	50	1.852	6.300	22.890	4.466	3.516	21.548	3.242	97.060	6522
EBD-1000T-150-97	0.1017	12	50	2.640	8.980	32.826	6.340	3.526	32.826	5.804	173.800	19014
EBD-1000T-150-118	0.1242	10	50	3.223	10.957	40.252	7.715	3.534	40.252	7.705	230.680	32470
EBD-1200T-150-54	0.0566	16	50	1.696	5.780	28.756	4.714	4.118	24.040	2.626	78.620	2708
EBD-1200T-150-68	0.0713	14	50	2.136	7.280	36.296	5.926	4.122	33.132	3.974	118.960	5426
EBD-1200T-150-97	0.1017	12	50	3.046	10.360	51.974	8.412	4.131	51.438	7.292	216.540	15804
EBD-1200T-150-118	0.1242	10	50	3.719	12.646	63.662	10.239	4.137	63.662	9.734	291.420	28862
EBD-1400T-150-54	0.0566	16	50	1.923	6.538	42.784	6.027	4.717	38.038	3.096	92.710	2320
EBD-1400T-150-68	0.0713	14	50	2.422	8.235	53.976	7.576	4.721	51.350	4.707	140.926	4644
EBD-1400T-150-97	0.1017	12	50	3.453	11.741	77.222	10.758	4.729	76.848	8.671	259.620	13518
EBD-1400T-150-118	0.1242	10	50	4.216	14.335	94.510	13.095	4.735	94.510	11.776	352.560	24682

"D" is the wall thickness. See typical nomenclature

### Notes:

- Section properties are for two track shapes per the SSMA Technical Catalog and CFS program.
- User should check end reaction for web crippling.
- Bending capacities are based on the assumption that the compression flange is adequately laterally braced on both sides.
- Allowable Moment and Shear Values are calculated assuming a negligible axial load. Load bearing jamb studs are to be designed for combined axial and bending loads by a qualified professional.
- Strength increase due to cold work of forming has been incorporated per AISI 2007 Specification A7.2.
- The effective Moment of Inertia for deflection has been calculated using Procedure 1 of the AISI S100-2007 Specification for serviceability determination.
- The distortional buckling limit state is not considered in this table. Consideration of distortional buckling may result in lower strengths when restraint against distortional buckling is not provided.
- If punch-outs are used in members, values may be smaller than those listed above and shall be per the AISI S100-2007 Specification.