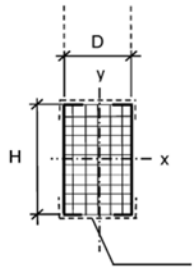
E-BEAM™ NOMENCLATURE

FOR USE AS E-BEAM ROOF CURB

CSI SPEC #054233



D (Wall Thickness)

H (Height)

EB6 - 800T150-54

Flange Width

Mil / ga.

SSMA Section Designation

Example E-Beam Size Designation

Top and bottom tracks are to be specified as required for design

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_y	Area	Weight	I_x	S_x	R_x	I_{xe}	S_{xe}	M_a	V_a
	(in)	(No.)	(ksi)	(in^2)	(lb/ft)	(in^4)	(in^3)	(in)	(in^4)	(in^3)	(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	7.232	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:

1. Section properties are for two track shapes per the SSMA Technical Catalog and CFS program.
2. User should check end reaction for web crippling.
3. Bending capacities are based on the assumption that the compression flange is adequately laterally braced on both sides.
4. 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.
5. Strength increase due to cold work of forming has been incorporated per AISI 2007 Specification A7.2.
6. The effective Moment of Inertia for deflection has been calculated using Procedure 1 of the AISI S100-2007 Specification for serviceability determination.
7. 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.
8. If punch-outs are used in members, values may be smaller than those listed above and shall be per the AISI S100-2007 Specification.

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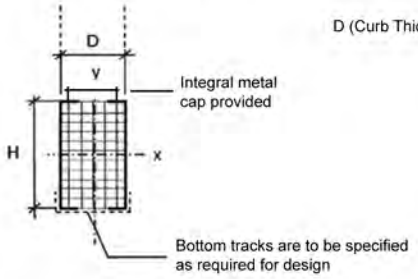


D (Curb Thickness) — H (Height)

EB6 - 800T150-54

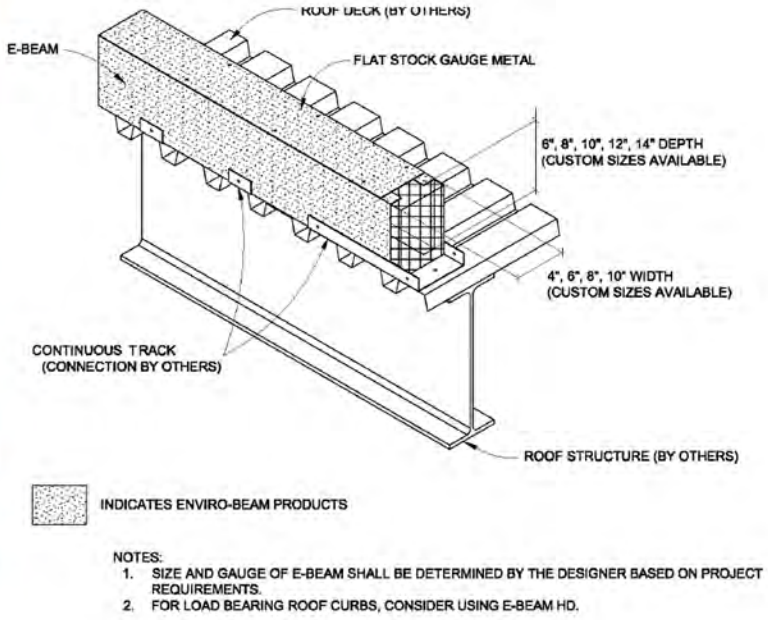
Flange Width — Mil/ga.

SSMA Section Designation

Example E-Beam/Roof Curb Size Designation

The designer should specify the curb 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.

Notes:
1. Engineers can refer to E-Beam Section Property Tables for loading capabilities.
2. Refer to Installation page for suggested fastening requirements.



NOTES:
1. SIZE AND GAUGE OF E-BEAM SHALL BE DETERMINED BY THE DESIGNER BASED ON PROJECT REQUIREMENTS.
2. FOR LOAD BEARING ROOF CURBS, CONSIDER USING E-BEAM HD.

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