

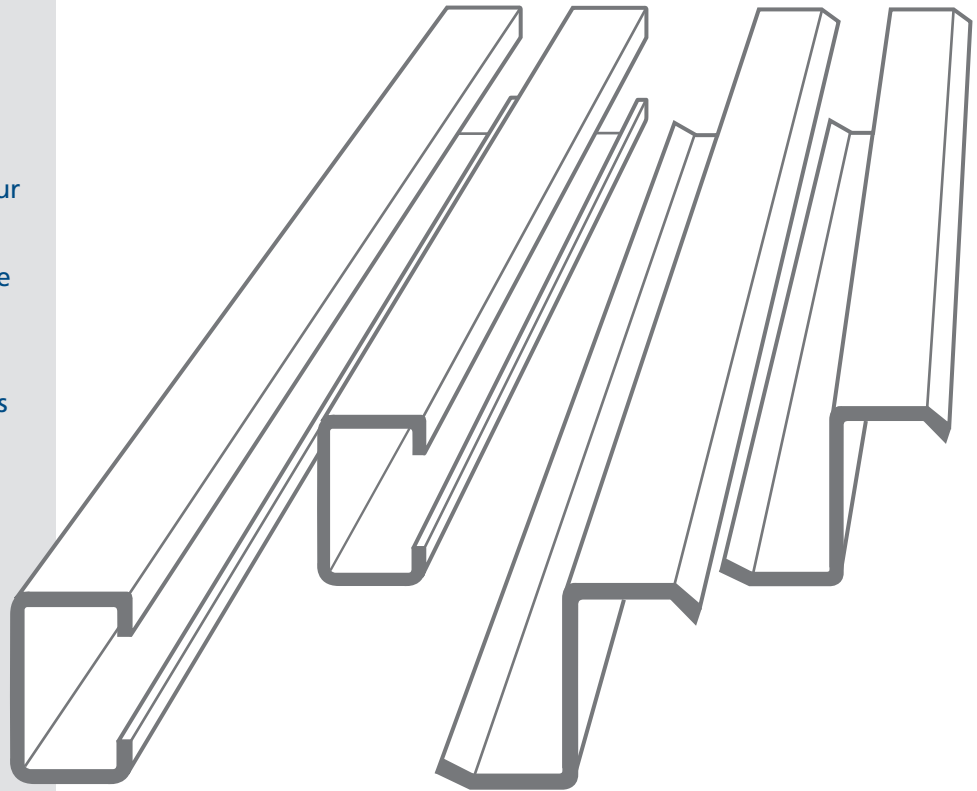


Rib Roof structural sections bridge the gap between economical considerations and superior strength. Whatever your project or application, our structural sections are readily available and designed to create a practical and perfect fit.

**Features:**

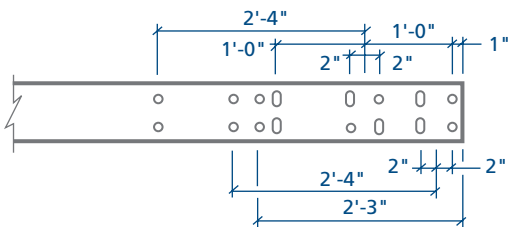
- Full range of sizes and lengths up to 45 feet.
- Variety of hole punching patterns.
- Complete line of accessories.
- All sections are available in pre-painted red oxide. Unpainted and galvanized sections are available upon request.
- Eave struts, angles and custom sections available up to 32 feet.

# CEE & ZEE STRUCTURAL SECTIONS

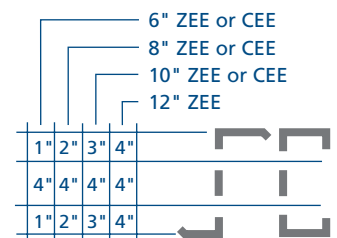
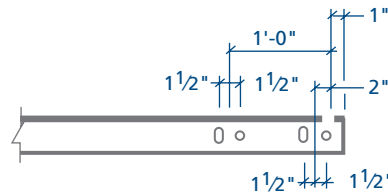


## PUNCHING PATTERNS

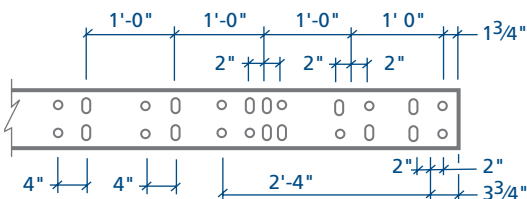
**Standard Web—Pattern A**



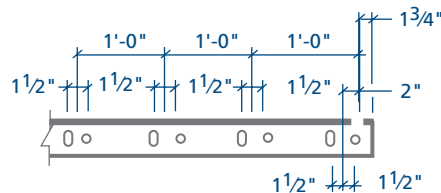
**Standard Flange**



**Optional Web—Pattern B**



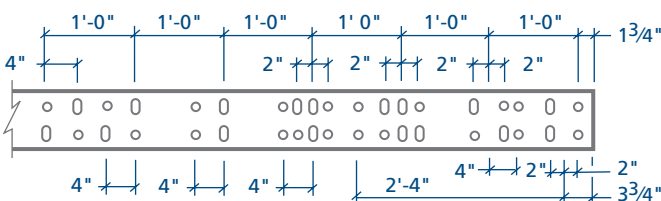
**Optional Flange**



**4" CEE (end punch—web only)**

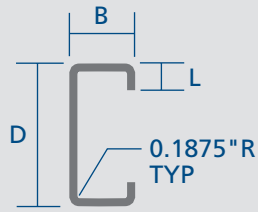


**Optional Web—Pattern C**



- NOTES: 1. Standard and optional web punching is available on all Ceess and Zees 6" thru 10".  
 2. Standard punching only available for 12" Zees.  
 3. 4" Cee or Zee can be end punched in the web.  
 4. Flange punching is available on 8"-10" Ceess and Zees only.  
 5. All holes are 5/8".  
 6. All slots are 5/8" x 3/4".

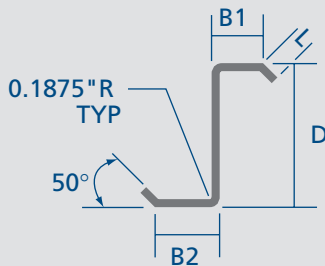
## CEE SECTION Properties



Size (in inches)			Ga.	Design Thick. (in.)	Wt. (lb/ft)	Eff. Area (in. <sup>2</sup> )	X-X Axis			Y-Y Axis		
D	B	L					I (in. <sup>4</sup> )	S (in. <sup>3</sup> )	r (in.)	I (in. <sup>4</sup> )	S (in. <sup>3</sup> )	r (in.)
4	2.5	0.773	16	0.059	1.993	0.543	1.467	0.671	1.631	0.532	0.343	0.953
		0.800	14	0.070	2.365	0.669	1.795	0.808	1.624	0.630	0.408	0.952
		0.885	12	0.105	3.548	1.043	2.674	1.337	1.601	0.936	0.616	0.947
6	2.5	0.773	16	0.059	2.395	0.543	3.742	1.154	2.374	0.615	0.361	0.935
		0.800	14	0.070	2.841	0.687	4.582	1.389	2.368	0.729	0.429	0.934
		0.885	12	0.105	4.262	1.164	6.906	2.302	2.347	1.087	0.649	0.931
8	2.5	0.773	16	0.059	2.796	0.510	7.355	1.690	3.078	0.674	0.372	0.906
		0.800	14	0.070	3.317	0.685	9.008	2.067	3.072	0.799	0.442	0.905
		0.885	12	0.105	4.976	1.178	13.645	3.411	3.054	1.194	0.669	0.903
8	3.5	0.773	16	0.059	3.197	0.522	8.300	1.755	3.204	1.523	0.623	1.273
		0.800	14	0.070	3.793	0.679	10.225	2.289	3.198	1.807	0.741	1.273
		0.885	12	0.105	5.690	1.309	16.077	3.619	3.180	2.710	1.123	1.273
10	2.5	0.773	16	0.059	3.197	0.442	11.519	2.091	3.755	0.719	0.379	0.874
		0.800	14	0.070	3.793	0.673	15.285	2.732	3.749	0.852	0.451	0.874
		0.885	12	0.105	5.690	1.184	23.311	4.662	3.732	1.275	0.682	0.873
10	3.5	0.800	14	0.070	4.269	0.669	16.771	2.893	3.904	1.938	0.759	1.242
		0.885	12	0.105	6.404	1.293	27.079	4.920	3.887	2.909	1.150	1.243
		0.800	14	0.070	4.269	0.650	22.681	3.249	4.407	0.893	0.457	0.844
12	2.5	0.885	12	0.105	6.404	1.177	36.324	6.054	4.392	1.338	0.692	0.843

## ZEE SECTION Properties

Section	Size (in inches)				Ga.	Design Thick. (in.)	Wt. (lb/ft)	Eff. Area (in. <sup>2</sup> )	X-X Axis			Y-Y Axis			I <sub>x-x</sub> (in. <sup>4</sup> )
	D	B1	B2	L					I (in. <sup>4</sup> )	S (in. <sup>3</sup> )	r (in.)	I (in. <sup>4</sup> )	S (in. <sup>3</sup> )	r (in.)	
4 x 2.5 Z	4	2.125	2.375	0.911	16	0.059	1.993	0.541	1.484	0.693	1.623	1.080	0.377	1.357	0.990
				0.930	14	0.070	2.365	0.668	1.812	0.845	1.617	1.288	0.449	1.361	1.173
				0.990	12	0.105	3.548	1.026	2.663	1.300	1.598	1.965	0.682	1.372	1.739
6 x 2.5 Z	6	2.125	2.375	0.911	16	0.059	2.395	0.545	3.803	1.196	2.367	1.080	0.376	1.238	1.539
				0.930	14	0.070	2.841	0.687	4.645	1.450	2.362	1.288	0.447	1.242	1.827
				0.990	12	0.105	4.262	1.163	6.888	2.250	2.344	1.966	0.676	1.252	2.743
8 x 2.5 Z	8	2.125	2.375	0.911	16	0.059	2.796	0.530	7.495	1.766	3.072	1.081	0.375	1.146	2.088
				0.930	14	0.070	3.317	0.685	9.144	2.151	3.067	1.289	0.446	1.149	2.481
				0.990	12	0.105	4.976	1.178	13.621	3.346	3.051	1.966	0.675	1.159	3.738
8 x 3.5 Z	8	3.125	3.375	0.911	16	0.059	3.197	0.543	8.491	1.806	3.199	2.582	0.666	1.657	3.734
				0.930	14	0.070	3.793	0.694	10.221	2.307	3.194	3.076	0.793	1.661	4.434
				0.990	12	0.105	5.690	1.323	16.171	3.647	3.177	4.679	1.198	1.672	6.666
10 x 2.5 Z	10	2.125	2.375	0.911	16	0.059	3.197	0.522	12.557	2.199	3.749	1.081	0.374	1.072	2.638
				0.930	14	0.070	3.793	0.683	15.590	2.918	3.744	1.289	0.445	1.075	3.136
				0.990	12	0.105	5.690	1.184	23.281	4.585	3.730	1.967	0.673	1.084	4.733
10 x 3.5 Z	10	3.125	3.375	0.930	14	0.070	4.269	0.683	17.262	2.944	3.900	3.077	0.791	1.565	5.592
				0.990	12	0.105	6.404	1.312	27.242	4.956	3.885	4.679	1.196	1.576	8.422
				0.930	14	0.070	4.269	0.675	23.503	3.467	4.403	1.290	0.444	1.013	3.790
12 x 2.5 Z	12	2.125	2.375	0.990	12	0.105	6.404	1.176	36.288	5.966	4.389	1.967	0.672	1.022	5.727



- Notes:
1. Materials conform to ASTM A-924/A-653 Grade 50 (F<sub>y</sub>=55 ksi minimum) with G60 galvanized coating, or ASTM A-570 Grade 50 (F<sub>y</sub>=55 ksi minimum) bare or red oxide coating.
  2. Values based on the American Iron and Steel Institute (AISI) "Specification for the Design of Cold-Formed Steel Structural Members" (1996 edition).
  3. I<sub>x-x</sub> pertains to deflection determination.
  4. S<sub>x-x</sub> pertains to stress determination.
  5. Y-Y axis properties are for the full un-reduced section.



### California Office

2745 North Locust Ave.  
Rialto, CA 92377  
Toll Free: (800) 859-5992  
Fax (909) 823-4786

### Tennessee Office

570 Morrison Rd.  
Rossville, TN 38066  
Toll Free: (800) 876-9062  
Fax (901) 853-2393

### Maryland Office

1001 Konica Dr.  
Elkton, MD 21921  
Toll Free: (866) 398-8881  
Fax (401) 398-9737

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