



Expanding Your Solutions

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Technical Services
 263 North Covina Lane
 City of Industry, CA 91744
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C-PROFILE

Sol Components offers an extensive range of C-Profiles, specializing in standard and large format sizes. All C-Profiles can be customized to your specifications: depth, flange, gauge, and material finish.

ASTM & Code Standards:

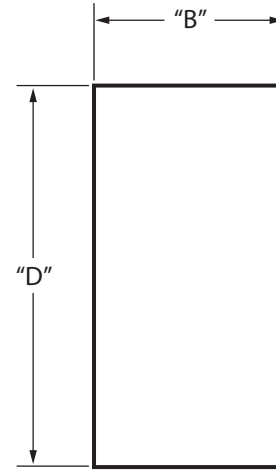
- ASTM A653/A653M, A924/A924M, A1003/1003, C955 & C1007
- ICC-ES & SFIA Code Compliance Certification Program
- ICC ESR-3016
- ATI CRR-0224
- IBC: 2012, 2015, 2018
- CBC: 2013, 2016
- AISI: S100, S200, S240

CEMCO cold-formed steel framing products recycled steel:

- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%

LEED v4 for Building and Design Construction:

- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.



Member	D x B	Lip (in)	Design Thickness (in)	Fy (KSI)	Gross								Effective Properties						Torsional Properties					
					Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Iy (in ⁴)	Ry (in)	Ix (in ⁴)	Sx (in ³)	Ma (in-k)	Mad (in-k)	Vag	Vanet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	Beta	
400S200-54	4 x 2	5/8	0.0566	50	0.500	1.70	1.292	0.646	1.608	0.287	0.758	1.292	0.549	16.43	17.31	3372	1223	0.534	1.083	-1.662	0.993	2.433	0.534	
400S200-68	4 x 2	5/8	0.0713	50	0.622	2.12	1.589	0.795	1.599	0.349	0.750	1.589	0.751	22.48	23.03	4871	1356	1.054	1.318	-1.643	0.983	2.412	0.536	
400S200-97	4 x 2	5/8	0.1017	50	0.864	2.94	2.155	1.077	1.579	0.462	0.731	2.155	1.063	36.68	37.17	6658	1207	2.978	1.749	-1.605	0.963	2.368	0.540	
400S200-118	4 x 2	5/8	0.1242	50	1.034	3.52	2.532	1.266	1.565	2.532	0.717	2.532	1.248	44.23	44.85	7869	1102	5.318	2.024	-1.577	0.948	2.334	0.544	
400S250-54	4 x 2 1/2	5/8	0.0566	50	0.556	1.89	1.512	0.756	1.649	0.490	0.938	1.506	0.576	17.24	18.42	3372	1223	0.594	1.821	-2.124	1.244	2.848	0.444	
400S250-68	4 x 2 1/2	5/8	0.0713	50	0.693	2.36	1.864	0.932	1.640	0.599	0.929	1.864	0.775	23.19	24.76	4871	1356	1.174	2.225	-2.105	1.235	2.826	0.445	
400S250-97	4 x 2 1/2	5/8	0.1017	50	0.966	3.29	2.541	1.271	1.622	0.801	0.911	2.541	1.191	40.06	41.47	6658	1207	3.329	2.978	-2.066	1.214	2.780	0.448	
400S250-118	4 x 2 1/2	5/8	0.1242	50	1.158	3.94	2.998	1.499	1.609	0.931	0.897	2.998	1.436	49.40	51.57	7869	1102	5.956	3.467	-2.037	1.199	2.746	0.450	
600S250-54	6 x 2 1/2	5/8	0.0566	50	0.670	2.28	3.819	1.273	2.388	0.562	0.917	3.766	1.069	32.00	27.71	2823	1947	0.715	4.194	-1.860	1.129	3.163	0.654	
600S250-68	6 x 2 1/2	5/8	0.0713	50	0.836	2.84	4.727	1.576	2.378	0.688	0.908	4.723	1.386	41.49	39.07	5350	2879	1.416	5.145	-1.842	1.119	3.142	0.656	
600S250-97	6 x 2 1/2	5/8	0.1017	50	1.169	3.98	6.496	2.165	2.357	0.923	0.889	6.496	2.063	69.38	66.81	10472	3805	4.030	6.947	-1.803	1.100	3.098	0.661	
600S250-118	6 x 2 1/2	5/8	0.1242	50	1.407	4.79	7.713	2.571	2.342	1.075	0.874	7.713	2.498	85.92	86.83	12526	3622	7.234	8.142	-1.775	1.085	3.066	0.665	
600S300-54	6 x 3	7/8	0.0566	50	0.754	2.57	4.462	1.488	2.432	0.986	1.143	4.390	1.277	38.23	33.68	2823	1947	0.806	8.115	-2.483	1.481	3.659	0.539	
600S300-68	6 x 3	7/8	0.0713	50	0.943	3.21	5.534	1.845	2.423	1.214	1.135	5.534	1.610	48.20	45.70	5350	2879	1.597	9.992	-2.465	1.471	3.638	0.541	
600S300-97	6 x 3	7/8	0.1017	50	1.322	4.50	7.639	2.546	2.404	1.649	1.117	7.639	2.442	73.11	71.40	10472	3805	4.556	13.587	-2.427	1.451	3.594	0.544	

Technical Services

Technical Services: 800.416.2278
 Structural Engineering/Design: 925.473.9340
 www.cemcosteel.com



This technical information reflects the most current information available and supersedes any and all previous publications effective January 31, 2022.

Member	D x B	Lip (in)	Design Thickness (in)	Fy (KSI)	Gross							Effective Properties							Torsional Properties					
					Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Iy (in ⁴)	Ry (in)	Ix (in ⁴)	Sx (in ³)	Ma (in-k)	Mad (in-k)	Vag	Vanet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	Beta	
600S300-118	6 x 3	7/8	0.1242	50	1.593	5.42	9.100	3.033	2.390	1.940	1.104	9.100	2.939	99.02	99.47	12526	3622	8.191	16.013	-2.398	1.437	3.561	0.546	
600S400-68	6 x 4	1	0.0713	50	1.103	3.75	6.863	2.288	2.494	2.529	1.514	6.667	1.814	54.32	51.36	5350	2879	1.869	21.773	-3.487	2.030	4.547	0.412	
600S400-97	6 x 4	1	0.1017	50	1.550	5.28	9.516	3.172	2.478	3.471	1.496	9.466	2.669	79.89	81.61	10472	3805	5.345	29.825	-3.448	2.010	4.501	0.413	
600S400-118	6 x 4	1	0.1242	50	1.873	6.37	11.376	3.792	2.465	4.118	1.483	11.376	3.426	102.56	104.80	12526	3622	9.628	35.342	-3.419	1.995	4.468	0.415	
800S250-54	8 x 2 1/2	5/8	0.0566	50	0.783	2.66	7.465	1.866	3.088	0.614	0.886	7.378	1.525	45.66	39.13	2091	2091	0.836	7.850	-1.661	1.036	3.617	0.789	
800S250-68	8 x 2 1/2	5/8	0.0713	50	0.978	3.33	9.261	2.315	3.077	0.752	0.877	9.240	2.059	61.65	53.75	4221	3367	1.658	9.652	-1.644	1.027	3.597	0.791	
800S250-97	8 x 2 1/2	5/8	0.1017	50	1.372	4.67	12.789	3.197	3.053	1.009	0.857	12.789	3.054	102.70	93.42	10885	5938	4.731	13.091	-1.607	1.008	3.555	0.796	
800S250-118	8 x 2 1/2	5/8	0.1242	50	1.655	5.63	15.242	3.810	3.035	1.175	0.843	15.242	3.707	127.51	122.92	16235	7115	8.511	15.395	-1.580	0.994	3.524	0.799	
800S350-54	8 x 3 1/2	7/8	0.0566	50	0.938	3.19	9.683	2.421	3.212	1.646	1.325	9.310	1.869	55.96	49.74	2091	2091	1.002	22.897	-2.766	1.668	4.441	0.612	
800S350-68	8 x 3 1/2	7/8	0.0713	50	1.174	4.00	12.046	3.012	3.203	2.034	1.316	12.046	2.596	77.73	68.05	4221	3367	1.990	28.308	-2.748	1.658	4.421	0.614	
800S350-97	8 x 3 1/2	7/8	0.1017	50	1.652	5.62	16.737	4.184	3.183	2.784	1.298	16.737	3.786	113.34	108.67	10885	5938	5.696	38.834	-2.710	1.639	4.377	0.617	
800S350-118	8 x 3 1/2	7/8	0.1242	50	1.997	6.79	20.041	5.010	3.168	3.295	1.285	20.041	4.762	158.02	150.37	16235	7115	10.267	46.068	-2.682	1.624	4.345	0.619	
800S400-68	8 x 4	1	0.0713	50	1.246	4.24	13.167	3.292	3.251	2.797	1.498	12.931	2.656	79.53	69.87	4221	3367	2.111	38.612	-3.195	1.906	4.798	0.557	
800S400-97	8 x 4	1	0.1017	50	1.754	5.97	18.324	4.581	3.232	3.843	1.480	18.266	3.891	116.48	112.29	10885	5938	6.046	53.118	-3.157	1.886	4.754	0.559	
800S400-118	8 x 4	1	0.1242	50	2.121	7.22	21.967	5.492	3.218	4.562	1.467	21.967	4.976	148.98	145.38	16235	7115	10.906	63.146	-3.128	1.871	4.721	0.561	
1000S250-54	10 x 2 1/2	5/8	0.0566	50	0.896	3.05	12.677	2.535	3.762	0.653	0.854	12.660	1.879	56.26	49.16	1661	1661	0.957	12.922	-1.505	0.958	4.140	0.868	
1000S250-68	10 x 2 1/2	5/8	0.0713	50	1.121	3.81	15.751	3.150	3.749	0.799	0.844	15.741	2.768	82.89	68.13	3345	3345	1.899	15.909	-1.488	0.950	4.121	0.870	
1000S250-97	10 x 2 1/2	5/8	0.1017	50	1.576	5.36	21.827	4.365	3.722	1.072	0.825	21.827	4.181	140.63	120.13	9864	7177	5.433	21.632	-1.454	0.932	4.080	0.873	
1000S250-118	10 x 2 1/2	5/8	0.1242	50	1.904	6.48	26.080	5.216	3.701	1.249	0.810	26.080	5.082	174.84	159.80	16235	9536	9.788	25.490	-1.428	0.918	4.049	0.876	
1000S350-68	10 x 3 1/2	7/8	0.0713	50	1.317	4.48	20.204	4.041	3.917	2.185	1.288	20.204	3.417	102.32	86.60	3345	3345	2.232	45.277	-2.529	1.557	4.837	0.727	
1000S350-97	10 x 3 1/2	7/8	0.1017	50	1.855	6.31	28.148	5.630	3.895	2.992	1.270	28.148	5.118	153.25	139.74	9864	7177	6.397	62.280	-2.492	1.538	4.795	0.730	
1000S350-118	10 x 3 1/2	7/8	0.1242	50	2.245	7.64	33.772	6.754	3.878	3.543	1.256	33.772	6.427	213.25	194.46	16235	9536	11.544	74.030	-2.465	1.524	4.764	0.732	
1000S400-68	10 x 4	1	0.0713	50	1.388	4.72	21.961	4.392	3.977	3.009	1.472	21.731	3.424	0.00	0.00	3345	3345	2.352	61.758	-2.955	1.798	5.169	0.673	
1000S400-97	10 x 4	1	0.1017	50	1.957	6.65	30.639	6.128	3.957	4.137	1.454	30.639	5.255	0.00	0.00	9864	7177	6.747	85.189	-2.918	1.779	5.126	0.676	
1000S400-118	10 x 4	1	0.1242	50	2.369	8.06	36.800	7.360	3.941	4.913	1.440	36.800	6.698	0.00	0.00	16235	9536	12.183	101.474	-2.890	1.764	5.095	0.678	
1200S200-68	12 x 2	5/8	0.0713	50	1.192	4.06	21.947	3.658	4.291	0.479	0.634	21.096	2.963	88.71	76.55	2771	2771	2.020	14.176	-1.017	0.673	4.455	0.948	
1200S200-97	12 x 2	5/8	0.1017	50	1.677	5.71	30.417	5.070	4.258	0.635	0.615	30.333	4.660	139.51	126.87	8147	7411	5.783	19.150	-0.987	0.656	4.414	0.950	
1200S200-118	12 x 2	5/8	0.1242	50	2.028	6.90	36.347	6.058	4.234	0.732	0.601	36.347	5.865	175.59	166.80	14986	11037	10.427	22.451	-0.964	0.644	4.384	0.952	
1200S250-68	12 x 2 1/2	5/8	0.0713	50	1.263	4.30	24.484	4.081	4.402	0.836	0.813	23.575	3.007	90.04	81.59	2771	2771	2.141	24.034	-1.362	0.884	4.679	0.915	
1200S250-97	12 x 2 1/2	5/8	0.1017	50	1.779	6.05	34.016	5.669	4.373	1.121	0.794	33.835	5.037	150.82	135.37	8147	7411	6.134	32.734	-1.329	0.867	4.639	0.918	
1200S250-118	12 x 2 1/2	5/8	0.1242	50	2.152	7.32	40.726	6.788	4.350	1.307	0.779	40.726	6.541	195.84	178.57	14986	11037	11.065	38.619	-1.305	0.854	4.608	0.920	
1200S300-68	12 x 3	7/8	0.0713	50	1.370	4.66	28.003	4.667	4.520	1.505	1.048	28.003	3.734	111.79	96.57	2771	2771	2.322	43.659	-1.876	1.193	5.005	0.860	
1200S300-97	12 x 3	7/8	0.1017	50	1.932	6.57	39.017	6.503	4.494	2.046	1.029	39.017	6.256	187.31	157.64	8147	7411	6.660	59.901	-1.842	1.175	4.965	0.862	
1200S300-118	12 x 3	7/8	0.1242	50	2.338	7.96	46.818	7.803	4.475	2.410	1.015	46.818	7.575	255.25	223.12	14986	11037	12.023	71.063	-1.816	1.161	4.935	0.865	
1200S350-68	12 x 3 1/2	1	0.0713	50	1.460	4.97	30.996	5.166	4.608	2.306	1.257	30.996	4.061	121.59	104.89	2771	2771	2.473	67.251	-2.346	1.469	5.322	0.806	
1200S350-97	12 x 3 1/2	1	0.1017	50	2.059	7.01	43.269	7.211	4.584	3.159	1.239	43.269	6.590	197.31	170.84	8147	7411	7.098	92.673	-2.310	1.450	5.281	0.809	
1200S350-118	12 x 3 1/2	1	0.1242	50	2.494	8.48	51.993	8.665	4.566	3.741	1.225	51.993	8.260	274.07	238.96	14986	11037	12.821	110.302	-2.284	1.436	5.250	0.811	
1200S400-68	12 x 4	1	0.0713	50	1.531	5.21	33.532	5.589	4.680	3.183	1.442	33.342	4.082	122.21	107.36	2771	2771	2.594	91.744	-2.753	1.704	5.618	0.760	
1200S400-97	12 x 4	1	0.1017	50	2.161	7.35	46.868	7.811	4.658	4.376	1.423	46.868	6.761	202.41	175.50	8147	7411	7.449	126.779	-2.717	1.685	5.577	0.763	
1200S400-118	12 x 4	1	0.1242	50	2.618	8.91	56.372	9.395	4.641	5.198	1.409	56.372	8.590	257.19	229.99	14986	11037	13.460	151.216	-2.689	1.671	5.546	0.765	
1400S250-68	14 x 2 1/2	5/8	0.0713	50	1.406	4.78	35.743	5.106	5.042	0.865	0.784	33.893	3.550	106.29	93.79	2365	2365	2.383	34.118	-1.257	0.827	5.255	0.943	
1400S250-97	14 x 2 1/2	5/8	0.1017	50	1.983	6.75	49.764	7.109	5.010	1.160	0.765	49.050	6.010	179.95	157.94	6939	6939	6.835	46.520	-1.225	0.811	5.214	0.945	
1400S250-118	14 x 2 1/2	5/8	0.1242	50	2.400	8.17	59.677	8.525	4.986	1.352	0.750	59.677	7.881	235.95	210.42	12745	11287	12.343	54.927	-1.203	0.798	5.184	0.946	
1400S300-68	14 x 3	7/8	0.0713	50	1.513	5.15	40.594	5.799	5.180	1.565	1.017	38.680	4.107	122.97	112.12	2365	2365	2.564	61.596	-1.743	1.124	5.559	0.902	
1400S300-97	14 x 3	7/8	0.1017	50	2.135	7.27	56.661	8.095	5.152	2.128	0.998	55.881	6.906	206.76	185.08	6939	6939	7.361	84.614	-1.71	1.106	5.519	0.904	
1400S300-118	14 x 3	7/8	0.1242	50	2.587	8.80	68.081	9.726	5.130	2.506	0.984	68.081	9.007	269.68	243.85	12745	11287	13.300	100.472	-1.686	1.093	5.489	0.906	
1400S350-68	14 x 3 1/2	1	0.0713	50	1.602	5.45	44.707	6.387	5.283	2.406	1.226	44.707	4.709	141.00	122.48	2365	2365	2.715	94.534	-2.190	1.391	5.848	0.860	
1400S350-97	14 x 3 1/2	1	0.1017	50	2.262	7.698	62.507	8.930	5.257	3.296	1.207	62.507	8.189	245.18	201.25	6939	6939	7.799	130.430	-2.156	1.373	5.808	0.862	