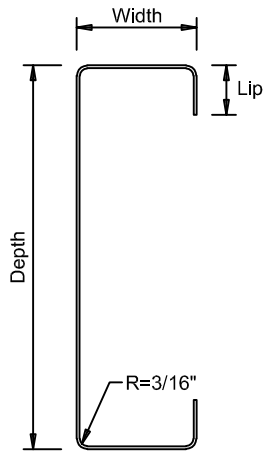




Section Properties Non-Standard Cees



TOLERANCE STANDARDS FOR THICKEST METALS

Accumulation	(±) 1/16"
Radii	(±) 1/32"
Width	(±) 1/16"
Flanges	(±) 1/16"
Flare	2x THK per side angles
Flange	(±) 2 degrees
Lips	(±) 3 degrees
Camber	1/8" in 10'-0"
Ski	1/8" in 10'-0"
Dive	1/8" in 10'-0"
Twist	1/8" in 10'-0"
(Zee Only)	1/4" in 20'-0"
Net variation for combined dimensions	
Twist is measured with the Zee laying on a flat surface under its own weight	

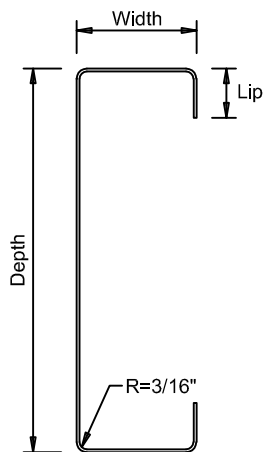
Sectional Properties

Name	Depth in	Width in	Thickness in	Lip in	Rad in	Area in ²	Weight lb/ft	I _{xx} in ⁴	S _{xx} in ³	R _{xx} in	I _{yy} in ⁴	S _{yy} in ³	R _{yy} in	J in ⁴	C _w in ⁶	R _o in	X _o in
4532C16	4.50	3.25	0.060	0.81	0.1875	0.720	2.450	2.528	1.123	1.874	1.074	0.535	1.221	0.00086	5.52	3.65	-2.88
4532C14	4.50	3.25	0.075	0.84	0.1875	0.900	3.060	3.129	1.391	1.865	1.340	0.671	1.220	0.00169	7.01	3.65	-2.89
4532C12	4.50	3.25	0.105	0.92	0.1875	1.260	4.290	4.293	1.908	1.846	1.868	0.946	1.218	0.00463	10.13	3.66	-2.91
635C16	6.00	3.50	0.060	0.87	0.1875	0.847	2.880	5.148	1.716	2.465	1.462	0.644	1.314	0.00102	12.18	4.05	-2.93
635C14	6.00	3.50	0.075	0.91	0.1875	1.059	3.600	6.390	2.130	2.456	1.826	0.809	1.313	0.00199	15.38	4.05	-2.94
635C12	6.00	3.50	0.105	0.98	0.1875	1.483	5.050	8.816	2.939	2.438	2.548	1.140	1.311	0.00545	22.00	4.05	-2.96
6522C16	6.50	2.25	0.060	0.81	0.1875	0.720	2.450	4.576	1.408	2.521	0.508	0.324	0.840	0.00086	4.88	3.15	-1.70
6522C14	6.50	2.25	0.075	0.84	0.1875	0.900	3.060	5.680	1.748	2.512	0.634	0.406	0.839	0.00169	6.15	3.15	-1.71
6522C12	6.50	2.25	0.105	0.92	0.1875	1.260	4.290	7.840	2.412	2.494	0.881	0.571	0.836	0.00463	8.73	3.14	-1.72
6532C16	6.50	3.25	0.060	0.87	0.1875	0.847	2.880	5.863	1.804	2.630	1.259	0.582	1.219	0.00102	12.04	3.91	-2.63
6532C14	6.50	3.25	0.075	0.91	0.1875	1.059	3.600	7.281	2.240	2.622	1.572	0.731	1.218	0.00199	15.18	3.91	-2.64
6532C12	6.50	3.25	0.105	0.98	0.1875	1.483	5.050	10.057	3.094	2.604	2.194	1.030	1.216	0.00545	21.65	3.91	-2.66
72C16	7.00	2.00	0.060	0.81	0.1875	0.720	2.450	5.090	1.454	2.659	0.393	0.274	0.739	0.00086	4.35	3.11	-1.44
72C14	7.00	2.00	0.075	0.84	0.1875	0.900	3.060	6.322	1.806	2.650	0.490	0.344	0.738	0.00169	5.47	3.11	-1.45
72C12	7.00	2.00	0.105	0.92	0.1875	1.260	4.290	8.734	2.495	2.633	0.680	0.483	0.735	0.00463	7.74	3.10	-1.46
73C16	7.00	3.00	0.060	0.87	0.1875	0.847	2.880	6.588	1.882	2.788	1.067	0.521	1.122	0.00102	11.64	3.81	-2.34
73C14	7.00	3.00	0.075	0.91	0.1875	1.059	3.600	8.185	2.338	2.780	1.332	0.654	1.121	0.00199	14.66	3.81	-2.35
73C12	7.00	3.00	0.105	0.98	0.1875	1.483	5.050	11.316	3.233	2.762	1.858	0.921	1.119	0.00545	20.85	3.81	-2.37
84C16	8.00	4.00	0.060	0.87	0.1875	1.028	3.500	10.872	2.718	3.253	2.228	0.819	1.473	0.00123	30.11	4.73	-3.11
84C14	8.00	4.00	0.075	0.91	0.1875	1.284	4.370	13.523	3.381	3.245	2.785	1.028	1.473	0.00241	37.90	4.73	-3.12
84C12	8.00	4.00	0.105	0.98	0.1875	1.798	6.120	18.742	4.685	3.228	3.896	1.450	1.472	0.00661	53.83	4.73	-3.13
852C16	8.50	2.25	0.060	0.87	0.1875	0.847	2.880	8.743	2.057	3.212	0.572	0.347	0.821	0.00102	9.05	3.66	-1.56
852C14	8.50	2.25	0.075	0.91	0.1875	1.059	3.600	10.873	2.558	3.204	0.713	0.434	0.820	0.00199	11.36	3.66	-1.56
852C12	8.50	2.25	0.105	0.98	0.1875	1.483	5.050	15.066	3.545	3.187	0.991	0.611	0.817	0.00545	16.03	3.65	-1.57
8537C16	8.50	3.75	0.060	0.87	0.1875	1.028	3.500	11.948	2.811	3.410	1.945	0.747	1.376	0.00123	29.42	4.64	-2.82
8537C14	8.50	3.75	0.075	0.91	0.1875	1.284	4.370	14.866	3.498	3.402	2.430	0.937	1.376	0.00241	37.02	4.64	-2.83
8537C12	8.50	3.75	0.105	0.98	0.1875	1.798	6.120	20.616	4.851	3.386	3.400	1.322	1.375	0.00661	52.50	4.63	-2.85

*Thickness indicated represents design thickness. Minimum deliverable bare steel equals 0.095 x design thickness in accordance with section A3.4 of AISI Specification of minimum steel thickness in inches.



Section Properties Non-Standard Cees



TOLERANCE STANDARDS FOR THICKEST METALS

Accumulation	(±) 1/16"
Radii	(±) 1/32"
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Dive	1/8" in 10'-0"
Twist	1/8" in 10'-0"
(Zee Only)	1/4" in 20'-0"

Net variation for combined dimensions

Twist is measured with the Zee laying on a flat surface under its own weight

Sectional Properties

Name	Depth in	Width in	Thickness in	Lip in	Rad in	Area in ²	Weight lb/ft	Ixx in ⁴	Sxx in ³	Rxx in	Iyy in ⁴	Syy in ³	Ryy in	j in ⁴	Cw in ⁶	Ro in	Xo in
92C16	9.00	2.00	0.060	0.87	0.1875	0.847	2.880	9.430	2.095	3.336	0.439	0.293	0.720	0.00102	7.83	3.66	-1.32
92C14	9.00	2.00	0.075	0.91	0.1875	1.059	3.600	11.731	2.607	3.328	0.547	0.367	0.719	0.00199	9.82	3.65	-1.32
92C12	9.00	2.00	0.105	0.98	0.1875	1.483	5.050	16.264	3.614	3.311	0.759	0.516	0.716	0.00545	13.80	3.64	-1.33
935C16	9.00	3.50	0.060	0.87	0.1875	1.028	3.500	13.026	2.895	3.561	1.676	0.676	1.277	0.00123	28.30	4.56	-2.55
935C14	9.00	3.50	0.075	0.91	0.1875	1.284	4.370	16.212	3.603	3.553	2.095	0.849	1.277	0.00241	35.58	4.56	-2.56
935C12	9.00	3.50	0.105	0.98	0.1875	1.798	6.120	22.495	4.999	3.537	2.930	1.197	1.276	0.00661	50.40	4.56	-2.58
104C14	10.00	4.00	0.075	0.91	0.1875	1.434	4.880	22.568	4.514	3.967	2.996	1.055	1.445	0.00269	61.14	5.11	-2.88
104C12	10.00	4.00	0.105	0.98	0.1875	2.008	6.830	31.353	6.271	3.951	4.195	1.488	1.445	0.00738	86.52	5.11	-2.90
11523C16	11.50	2.38	0.060	0.74	0.1875	1.028	3.500	18.307	3.184	4.221	0.656	0.352	0.799	0.00123	18.09	4.51	-1.37
11523C14	11.50	2.38	0.075	0.78	0.1875	1.284	4.370	22.813	3.967	4.214	0.820	0.442	0.799	0.00241	22.68	4.51	-1.38
11523C12	11.50	2.38	0.105	0.85	0.1875	1.798	6.120	31.734	5.519	4.201	1.146	0.624	0.798	0.00661	31.94	4.50	-1.39
112C16	12.00	2.00	0.060	0.87	0.1875	1.028	3.500	19.114	3.186	4.313	0.472	0.299	0.678	0.00123	14.66	4.51	-1.14
112C14	12.00	2.00	0.075	0.91	0.1875	1.284	4.370	23.817	3.969	4.306	0.588	0.374	0.677	0.00241	18.34	4.51	-1.14
112C12	12.00	2.00	0.105	0.98	0.1875	1.798	6.120	33.126	5.521	4.292	0.818	0.526	0.674	0.00661	25.70	4.49	-1.15
124C14	12.00	4.00	0.075	0.91	0.1875	1.584	5.390	34.482	5.747	4.665	3.167	1.075	1.414	0.00297	91.31	5.56	-2.68
124C12	12.00	4.00	0.105	0.98	0.1875	2.218	7.550	47.982	7.997	4.651	4.437	1.517	1.414	0.00815	128.94	5.56	-2.70
142C14	14.00	2.00	0.075	0.91	0.1875	1.434	4.880	35.024	5.003	4.941	0.609	0.377	0.652	0.00269	25.79	5.09	-1.05
142C12	14.00	2.00	0.105	0.98	0.1875	2.008	6.830	48.777	6.968	4.928	0.847	0.530	0.649	0.00738	36.09	5.08	-1.06
144C14	14.00	4.00	0.075	0.91	0.1875	1.734	5.900	49.567	7.081	5.346	3.308	1.090	1.381	0.00325	128.83	6.07	-2.51
144C12	14.00	4.00	0.105	0.98	0.1875	2.428	8.260	69.050	9.864	5.333	4.637	1.539	1.382	0.00892	181.70	6.06	-2.53

*Thickness indicated represents design thickness. Minimum deliverable bare steel equals 0.095 x design thickness in accordance with section A3.4 of AISI Specification of minimum steel thickness in inches.