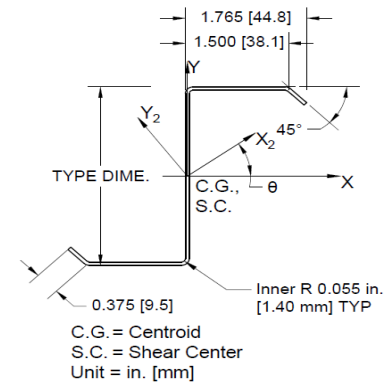




Product Code	Mils (Gauge)	Dimensions				Gross Section Properties							Effective Section Properties @ Fy										Torsional Properties								Unbraced length, L _b (in)
		Web, W (in)	Flange, B (in)	Return, D (in)	Thickness, t (in)	Area (in ²)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	S _y (in ³)	R _y (in)	A _e (in ²)	I _{ex} (in ⁴)	S _{ex} (in ³)	I _{ey} (in ⁴)	S _{ey} (in ³)	M _{alx} (in-lbs)	M _{aly} (in-lbs)	M _{adx} (in-lbs)	M _{ady} (in-lbs)	V _{ag} (lbs)	I _{xy} (in ⁴)	I _{x2} (in ⁴)	I _{y2} (in ⁴)	R _{min} (in)	Ø deg	J*1000 (in ⁴)	C _w (in ⁴)		
150ZG-43	43 (18)	1.50	1.50	0.375	0.0451	0.228	0.092	0.122	0.635	0.179	0.103	0.886	0.211	0.092	0.116	0.179	0.103	2289	2028	2358	1977	725	0.102	0.246	0.025	1.039	123.4	0.154	0.054	37.0	
200ZG-43	43 (18)	2.00	1.50	0.375	0.0451	0.250	0.175	0.175	0.837	0.179	0.103	0.845	0.232	0.175	0.165	0.179	0.103	3266	2028	3260	1909	1004	0.139	0.316	0.038	1.124	134.6	0.170	0.101	35.6	
250ZG-43	43 (18)	2.50	1.50	0.375	0.0451	0.273	0.290	0.232	1.031	0.179	0.103	0.810	0.239	0.290	0.219	0.179	0.103	4321	2028	4192	1854	1284	0.176	0.049	0.419	0.425	53.7	0.185	0.166	34.8	
200ZG-54	54 (16)	2.00	1.50	0.375	0.0566	0.312	0.216	0.216	0.832	0.221	0.127	0.841	0.283	0.216	0.199	0.221	0.127	5955	3801	5837	3435	1886	0.172	0.390	0.047	1.118	134.6	0.333	0.123	28.9	
300ZG-54	54 (16)	3.00	1.50	0.375	0.0566	0.369	0.543	0.362	1.214	0.221	0.127	0.774	0.301	0.543	0.334	0.221	0.127	10001	3801	9274	3254	2947	0.264	0.072	0.691	0.443	60.7	0.394	0.306	27.7	
400ZG-54	54 (16)	4.00	1.50	0.375	0.0566	0.425	1.054	0.527	1.575	0.221	0.127	0.720	0.309	1.054	0.489	0.221	0.127	14629	3801	12913	3110	3372	0.357	0.089	1.186	0.456	69.7	0.454	0.586	26.9	

 I_x = Gross Section Moment of Inertia about x-axis I_y = Gross Section Moment of Inertia about y-axis S_x = Gross Section Modulus about x-axis S_y = Gross Section Modulus about y-axis r_x = Radius of Gyration about x-axis r_y = Radius of Gyration about y-axis M_{alx} = Fully Braced Allowable Local Moment at strong axis M_{adx} = Fully Braced Allowable Distortional Moment at strong axis M_{aly} = Fully Braced Allowable Local Moment at weak axis M_{ady} = Fully Braced Allowable Distortional Moment at weak axis V_{ag} = Allowable shear at full section I_{xy} = Gross Section Product of Inertia I_{x2} = Gross Section Moment of Inertia about X_2 axis I_{y2} = Gross Section Moment of Inertia about Y_2 axis R_{min} = Minimum Radius of Gyration about X_2 axis ϕ = Angle between X axis and minor principal axis J = St. Venant torsional constant ($J \times 1000$) C_w = Torsional warping constant I_{ex} = Fully Effective Moment of Inertia about x-axis I_{ey} = Fully Effective Moment of Inertia about y-axis S_{ex} = Fully Effective Section Modulus about x-axis S_{ey} = Fully Effective Section Modulus about y-axis A_e = Effective area

Fy = 33ksi for 43mils (18ga) and 50ksi for 54mil (16ga)

Calculated capacities are calculated in accordance with AISI S100-16 (2020) w/S2-20