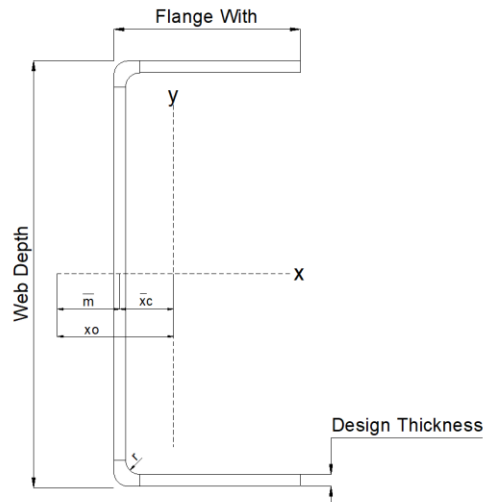


Product Type: Structural Track

Product Definition: 1000T125-97 (50ksi)

CSI Code: 05 41 00



Profile Properties:

Web Depth	10.000 in	Yield Strength F_y :	50 ksi
Flange Width	1.250 in	Unit Weight	4.32 lb/ft
Design Thickness	0.1017 in	Coating	G60
Thickness	97mils (12Ga)		

Gross Section Properties:

Cross Sectional Area	A_{gross}	1.2690 in ²
Member weight per foot of length		4.32 lb/ft
Moment of Inertia. x-axis	I_x	15.0830 in ⁴
Radius of Gyration. x-axis	r_x	3.4476 in
Moment of Inertia. y-axis	I_y	0.1000 in ⁴
Radius of Gyration. y-axis	r_y	0.2807 in

Torsional Properties:

St. Venant Torsion Constant	$J \times 1000$	4.3751 in ⁴
Warping Constant	C_w	2.1228 in ⁶
Distance Between Shear Axis and Neutral Axis	x_0	-0.3629 in
Polar Radius of Gyration	r_0	3.4780 in
Torsional Flexural Constant	β	0.9891
Limit of Unbraced Length	L_u	17.47 in



Effective Section Properties:

Effective Area	Aeff	0.6951 in ²
Effective Moment of Inertia for Deflection	Ixe	14.6407 in ⁴
Effective Section Modulus	Sxe	2.7528 in ³
Allowable Bending Moment	Ma	82.4194 in.k
Allowable Shear Force (Solid Section)	Vag	9505 lbs

Codes & Standards:

- Calculations are based on AISI S240-20 and AISI S100-16 (2020) w/S2-20.
- Complies with IBC 2024. ASTM C955. ASTM C754. ASTM A653. ASTM A1003. ASTM E72
- LEED / Sustainability Credits: Environmental Product Declaration S-P Code: S-P-00869