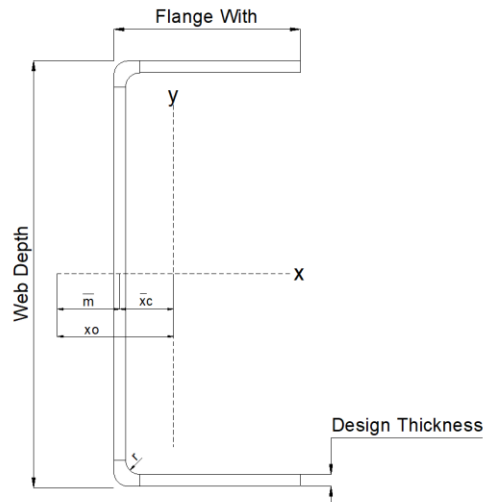


Product Type: Structural Track

Product Definition: 600T125-68 (50ksi)

CSI Code: 05 41 00



Profile Properties:

Web Depth	6.000 in	Yield Strength F_y :	50 ksi
Flange Width	1.250 in	Unit Weight	2.06 lb/ft
Design Thickness	0.0713 in	Coating	G60
Thickness	68mils (14Ga)		

Gross Section Properties:

Cross Sectional Area	A_{gross}	0.6049 in ²
Member weight per foot of length		2.06 lb/ft
Moment of Inertia. x-axis	I_x	2.9700 in ⁴
Radius of Gyration. x-axis	r_x	2.2158 in
Moment of Inertia. y-axis	I_y	0.0668 in ⁴
Radius of Gyration. y-axis	r_y	0.3323 in

Torsional Properties:

St. Venant Torsion Constant	$J \times 1000$	1.0251 in ⁴
Warping Constant	C_w	0.4826 in ⁶
Distance Between Shear Axis and Neutral Axis	x_0	-0.5027 in
Polar Radius of Gyration	r_0	2.2962 in
Torsional Flexural Constant	β	0.9521
Limit of Unbraced Length	L_u	17.36 in



Effective Section Properties:

Effective Area	Aeff	0.3577 in ²
Effective Moment of Inertia for Deflection	Ixe	2.7808 in ⁴
Effective Section Modulus	Sxe	0.8581 in ³
Allowable Bending Moment	Ma	25.6928 in.k
Allowable Shear Force (Solid Section)	Vag	5352 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