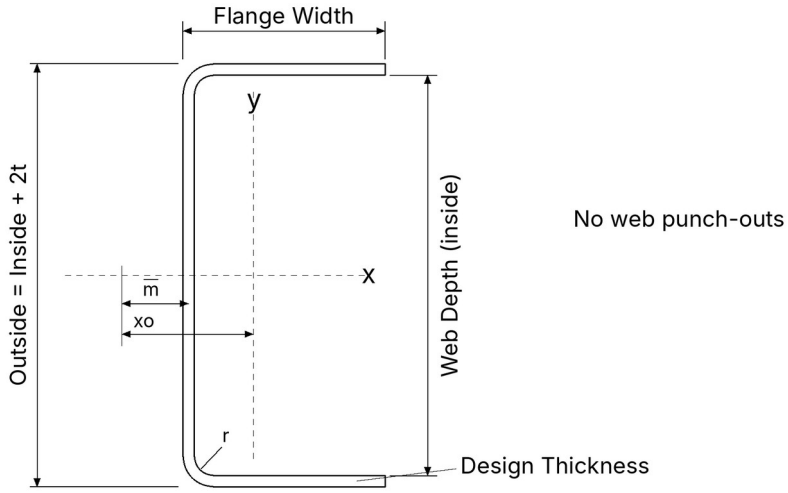
PRODUCT SUBMITTAL SHEET

Product Type: Structural Track

Product Definition: 600T162-68 (50ksi)

CSI Code: 05 41 00



Profile Properties:

Web Depth (inside)	6.000 in	Yield Strength Fy:	50 ksi
Flange Width	1.625 in	Unit Weight	2.21 lb/ft
Web Depth (outside)	6.1426 in	Punchout Width / Length	None
Design Thickness	0.0713 in	Coating	G60 or G90
Thickness	68 mils (14 Ga)	Min. Steel Thickness	0.0677 in
Inside Bend Radius	0.1069 in	Tensile Strength Fu	65 ksi

Gross Section Properties:

Cross Sectional Area	Agross	0.6508 in2
Member weight per foot of length		2.21 lb/ft
Moment of Inertia. x-axis	Ix	3.3375 in4
Section Modulus. x-axis	Sx	1.0867 in3
Radius of Gyration. x-axis	rx	2.2646 in
Moment of Inertia. y-axis	Iy	0.1409 in4
Radius of Gyration. y-axis	ry	0.4653 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	1.1028 in4
Warping Constant	Cw	0.9527 in6
Distance Between Shear Axis and Neutral Axis	x0	-0.7626 in
Shear Center to Web Centerline	m	0.4855 in
Polar Radius of Gyration	r0	2.4344 in
Torsional Flexural Constant	β	0.9019
Limit of Unbraced Length	Lu	21.10 in

Effective Section Properties:

Effective Area	Aeff	0.3660 in2
Effective Moment of Inertia for Deflection	Ixe	2.9561 in4
Effective Section Modulus	Sxe	0.9057 in3
Allowable Bending Moment	Ma	27.1177 in.k
Allowable Shear Force	Vag	5352 lbs

Codes & Standards:

- Calculations are based on AISI S240-20 and AISI S100-16 (2020) w/S2-20.
- AISI S240-20 North American Standard for Cold-Formed Steel Structural Framing: Section A3 Material (ASTM A1003/A1003M); Section A4 Corrosion Protection (ASTM A653/A653M); Section A5 Products – thickness, shapes, tolerances, identification; Section C Installation (ASTM C1007).
- IBC 2024 International Building Code. ASTM C955. ASTM A1003. ASTM A653 SS Grade 50 Class 1. Coating G60 or G90 per AISI S240 Section A4.
- ICC-ES ESR-5905 UMS Joists, UMS Studs and UMS Tracks.
- LEED / Sustainability Credits: Environmental Product Declaration S-P Code: S-P-00869
- Note: Tracks are manufactured without web punch-outs. Web depth designation is the inside-to-inside dimension; outside web depth = designation + 2 × design thickness (tolerance 0 to +1/8'').

Structural Track. The technical content of this literature is effective 10/30/2026 and supersedes all previous information.