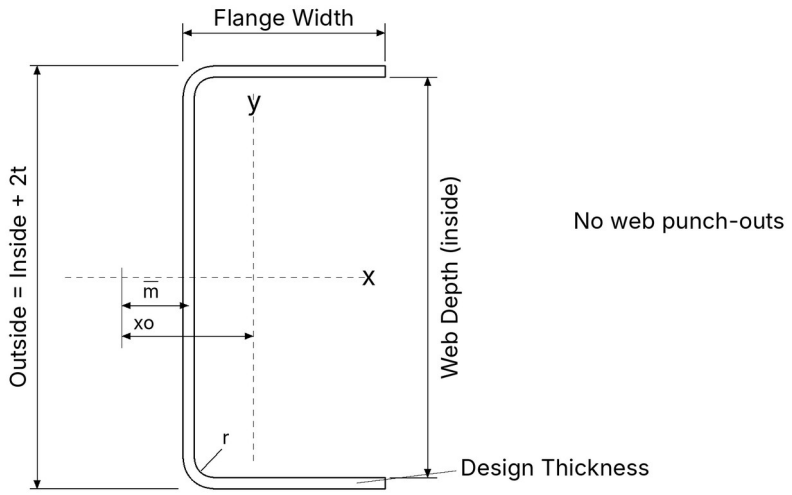
PRODUCT SUBMITTAL SHEET

Product Type: Structural Track

Product Definition: 800T250-54 (50ksi)

CSI Code: 05 41 00



Profile Properties:

Web Depth (inside)	8.000 in	Yield Strength Fy:	50 ksi
Flange Width	2.500 in	Unit Weight	2.49 lb/ft
Web Depth (outside)	8.1132 in	Punchout Width / Length	None
Design Thickness	0.0566 in	Coating	G60 or G90
Thickness	54 mils (16 Ga)	Min. Steel Thickness	0.0538 in
Inside Bend Radius	0.0849 in	Tensile Strength Fu	65 ksi

Gross Section Properties:

Cross Sectional Area	Agross	0.7303 in2
Member weight per foot of length		2.49 lb/ft
Moment of Inertia. x-axis	Ix	6.9186 in4
Section Modulus. x-axis	Sx	1.7055 in3
Radius of Gyration. x-axis	rx	3.0779 in
Moment of Inertia. y-axis	Iy	0.4060 in4
Radius of Gyration. y-axis	ry	0.7456 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0.7799 in4
Warping Constant	Cw	4.7526 in6
Distance Between Shear Axis and Neutral Axis	x0	-1.2744 in
Shear Center to Web Centerline	m	0.8008 in
Polar Radius of Gyration	r0	3.4138 in
Torsional Flexural Constant	β	0.8606
Limit of Unbraced Length	Lu	24.38 in

Effective Section Properties:

Effective Area	Aeff	0.2465 in2
Effective Moment of Inertia for Deflection	Ixe	4.7097 in4
Effective Section Modulus	Sxe	0.9515 in3
Allowable Bending Moment	Ma	28.4870 in.k
Allowable Shear Force	Vag	2061 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.