# 362T125-54 (50ksi, CP60)

**362 (3-5/8") structural track with T125 (1-1/4") leg - 54mils (16ga)**

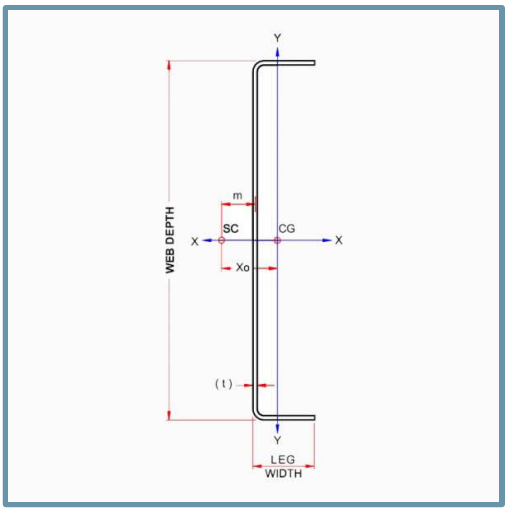
**Coating:** CP60 per AISI S240 **Color Code:** Green

## Geometric Properties

**Web depth:** 3.823 in
**Leg width:** 1.25 in
**Thickness:** 54mils (16ga)
**Design Thickness:** 0.0566 in
**Min. steel thickness:** 0.0538 in
**Yield strength, Fy:** 50 ksi
***Fy with Cold-Work, Fya:** 50.0 ksi
**Ultimate, Fu:** 65.0 ksi

| Gross Section Properties of Full Section, Strong Axis | |
|---|---|
| Cross sectional area (A) | 0.346 $in^2$ |
| Member weight per foot of length | 1.18 lb/ft |
| Moment of inertia (Ix) | 0.723 $in^4$ |
| Section Modulus (Sx) | 0.378$in^3$ |
| Radius of gyration (Rx) | 1.445 in |
| Gross moment of inerita (Iy) | 0.048 $in^4$ |
| Gross radius of gyration (Ry) | 0.373 in |
| **Effective Section Properties, Strong Axis** | |
| Effective Area (Ae) | 0.225 $in^2$ |
| Moment of inertia for deflection (Ix) | 0.678 $in^4$ |
| Section modulus (Sx) | 0.312 $in^3$ |
| Allowable bending moment (Ma) | 9.34 in-k |
| Allowable shear force in web | 3372 lb |
| **Torsional Properties** | |
| St. Venant torsional constant (J x 1000) | 0.369 $in^4$ |
| Warping constant (Cw) | 0.123 $in^6$ |
| Distance from shear center to neutral axis (Xo) | -0.648 in |
| Distance between shear center and web centerline (m) | 0.404 in |
| Radii of gyration (Ro) | 1.627 in |
| Torsional flexural constant (Beta) | 0.841 |

- Effective properties incorporate the strength increase from the cold work of forming.




- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses

## Code Approvals & Performance Standards

- AISI S100-16 (2020) w/S2-20 North American Specification for the Design of Cold-Formed Steel Structural Members
- AISI S240-20 North American Standard for Cold-Formed Steel Structural Framing
  - (Compliant to ASTM C955 , but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2018)
  - Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
  - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
  - Section A5 Products - Thickness, shapes, tolerances, identification
  - Section C Installation - (Referencing ASTM C1007)
- AISI S202-20 Code of Standard Practice for Cold-Formed Steel Structural Framing
  - Section F3 Delivery, Handling and Storage of Materials
- IBC 2021 International Building Code
- ICC-ES ESR-1166P Structural Studs and Track
  - ESR-1166P LABC and LARC Supplement
  - ESR-1166P Catalog ClarkDietrich Structural Technical Design Guide (6/22/20)
- Intertek CCRR-0206 Structural Studs and Track
- SFIA Stud Code Compliance Certification Program
- SDS For ASTM A1003 Steel Framing Products For Interior Framing, Exterior Framing and Clips/Accessories

**Sustainability Credits** For more details and LEED letters contact Technical Services at 888-437-3244 or visit clarkdietrich.com/LEED.

- **LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- **LEED v4 MR Credit:** Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).