

Product category: ProTRAK® 25 Drywall Track 1-1/4" leg
Product name: 400PDT125-15 50ksi G40EQ - Unpunched
 4" ProTRAK 25 (15mil)
 Finish: G40EQ
 Color coding: None

Geometric Properties

Inside web depth	4.000 in	Weight	0.349 lb/ft
Leg width	1.250 in	Minimum thickness	0.0150 in
Design thickness	0.0158 in		
Yield stress, Fy	50 ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.103 in ²
Moment of inertia (Ix)	0.247 in ⁴
Radius of gyration (Rx)	1.550 in
Gross moment of inertia (Iy)	0.014 in ⁴
Gross radius of gyration (Ry)	0.374 in

Effective Section Properties, Strong Axis

Effective area (Ae)	0.021 in ⁴
Moment of inertia for deflection (Ixe)	0.153 in ⁴
Section modulus (Sxe)	0.039 in ³
Allowable bending moment (Ma)	1,171 in-lbs
Allowable shear force in web (Vag)	89 lb

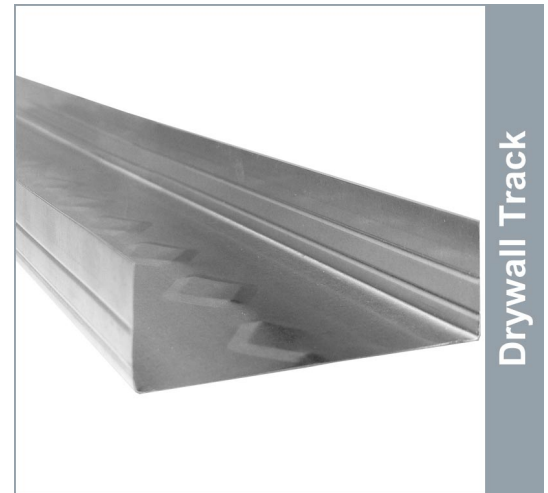
Torsional Properties

St. Venant torsion constant (J x 1000)	0.0085 in ⁴
Warping constant (Cw)	0.043 in ⁶
Distance from shear center to neutral axis (Xo)	-0.640 in
Radii of gyration (Ro)	1.718 in
Torsional flexural constant (Beta)	0.861

Notes:

- Calculated properties are based on AISI S100-07, North American Specification for Design of Cold-Formed Steel Structural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross section of the tracks.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold work of forming.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.
- Web depth for track sections is equal to the nominal height plus two times the design thickness plus the bend radius. Hems on non-structural track sections are ignored.
- **Web-height to thickness ratio exceeds 200. Web Stiffeners are required at bearing points.**

09.22.16 (Non-Structural Metal Framing)



Drywall Track

* Embossments in web are only placed on sections 2-1/2" and wider.

ASTM & Code Standards:

- AISI-NASPEC 2007
- Meets or exceeds ASTM C645 & C754
- ASTM E119, E72 & E90
- IAPMO #0171 & #0189
- Multiple UL® Design Listing including: V438, V450 & U419
- MSDS & Product Certification Information available at www.clarkdietrich.com.



GREEN Benefits and Recycled Content:

LEED Credit MR 2 - ClarkDietrich products are manufactured from cold-formed steel. Steel is 100% recyclable, which helps divert debris from the waste stream. The contribution to LEED must be calculated by the contractor based on weight or volume.

LEED Credit MR 4 - ClarkDietrich's steel products have a minimum recycled content of 34.9%, of which 24.3% is post-consumer, and 9.4% is pre-consumer. To report a higher number for your project or seek Credit MR 5, contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com.

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