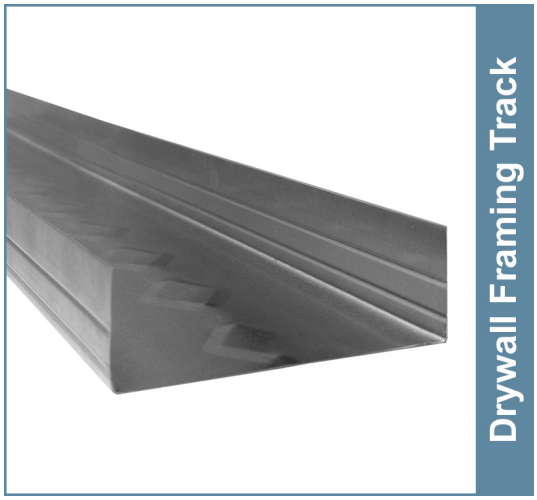
Product Submittal Sheet

Technical Services: 888-437-3244
Engineering Services: 877-832-3206
Sales: 800-543-7140
clarkdietrich.com

Product category: ProTRAK® 20 Drywall Track 1-1/4" leg
Product name: **550PDT125-18 50ksi G40EQ - Unpunched**
5-1/2" ProTRAK 20 (18mil)
Coating: G40EQ
Color coding: Brown

09.22.16 (Non-Structural Metal Framing)



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

Geometric Properties

Inside web depth	5.500 in	Weight	0.517 lb/ft
Leg width	1.250 in	Minimum thickness	0.0181 in
Design thickness	0.0190 in		
Yield stress, Fy	50 ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.152 in^2
Moment of inertia (Ix)	0.630 in^4
Radius of gyration (Rx)	2.036 in
Gross moment of inertia (Iy)	0.019 in^4
Gross radius of gyration (Ry)	0.349 in

Effective Section Properties, Strong Axis

Effective area (Ae)	0.029 in^4
Moment of inertia for deflection (Ixe)	0.388 in^4
Section modulus (Sxe)	0.075 in^3
Allowable bending moment (Ma)	2,260 in-lbs
Allowable shear force in web (Vag)	112 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	0.0183 in^4
Warping constant (Cw)	0.107 in^6
Distance from shear center to neutral axis (Xo)	-0.548 in
Radii of gyration (Ro)	2.137 in
Torsional flexural constant (Beta)	0.934

UL® Testing Standard

- UL® 263, ASTM E119
- Over 50 UL® design listings
- UL® file number R26512
- U.S. Patent No. 9,010,070

Code Approvals & Performance Standards

Calculated properties are based on:

AISI S100-16 North American Specification for the Design of CFS 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 nonstructural track sections are ignored.

AISI S220-15 North American Standard for CFS Framing - Nonstructural Members

- Section A4 - Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
- Section A5 - Corrosion Protection (Referencing ASTM A653/A653M)
- Section A6 - Products - Thickness, shapes, tolerances, identification
- Section C - Installation - (Referencing ASTM C754)

ClarkDietrich's nonstructural framing comply with:

- IBC-2018 - International Building Code
- Intertek CCRR-0207, LA RR #26019, NYC - OTCR
- SFIA Code Compliance Certification Program
- ASTM E72 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- SDS & Product Certification Information is available at www.clarkdietrich.com/SupportDocs

- Web-height to thickness ratio exceeds 260.

Sustainability Credits:

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

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).

LEED 2009 Credit MR 2 & MR 4 -- ClarkDietrich's steel products are 100% recyclable and have a national average recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)