

# **Product Submittal Sheet**

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Product	category:
Product	name:

ProTRAK® 20 Drywall Track 1-1/4" leg 162PDT125-18 50ksi G40EQ - Unpunched 1-5/8" ProTRAK 20 (18mil)

> Coating: G40EQ Color coding: Brown

# **Geometric Properties**

Inside web depth	1.625 in	Weight	0.266 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)	0.078 in <sup>2</sup>
Moment of inertia (Ix)	0.040 in <sup>4</sup>
Radius of gyration (Rx)	0.718 in
Gross moment of inertia (ly)	0.013 in⁴
Gross radius of gyration (Ry)	0.411 in

## **Effective Section Properties, Strong Axis**

Effective area (Ae)	0.028 in <sup>4</sup>
Moment of inertia for deflection (Ixe)	0.027 in⁴
Section modulus (Sxe)	0.022 in <sup>3</sup>
Allowable bending moment (Ma)	663 in-Ibs
Allowable shear force in web (Vag)	380 lb

## **Torsional Properties**

St. Venant torsion constant (J x 1000)	0.0094 in <sup>4</sup>
Warping constant (Cw)	0.007 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-0.879 in
Radii of gyration (Ro)	1.207 in
Torsional flexural constant (Beta)	0.470

# **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:

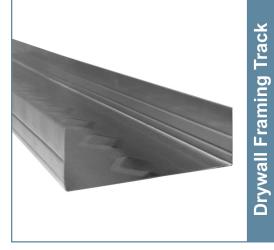
- IBC-2018 International Building Code
- Intertek CCRR-0207, LA RR #26019, NYC OTCR
- SFIA Code Compliance Certification Program
- ASTM E72 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- SDS & Product Certification Information is available at www.clarkdietrich.com/SupportDocs

#### 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)



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

## UL® Testing Standard

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

