

Product Submittal Sheet

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

Product category: (TLA) TRAKLOC Adjustable Stud

Product name: 250TLA125-18 33ksi G40 - Punched
2-1/2" TRAKLOC Stud 18 mils (25qa)

Coating: G40 Color coding: None

Geometric Properties

Web depth	2.500 in	Weight	0.347 lb/ft
Flange width	1.250 in	Punchout width	0.750 in
Stiffening lip	0.288 in	Punchout length	4.000 in
Design thickness	0.0188 in	Minimum thickness	0.0179 in
Yield stress, Fy	33 ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.102 in ²
Moment of inertia (Ix)	0.106 in ⁴
Radius of gyration (Rx)	1.017 in
Gross moment of inertia (Iy)	0.022 in ⁴
Gross radius of gyration (Ry)	0.467 in

Effective Section Properties, Strong Axis

Torsional Properties

Unbraced Length (Lu)

St. Venant torsion constant (J x 1000) Warping constant (Cw) Distance from shear center to neutral axis (Xo) Radii of gyration (Ro) Torsional flexural constant (Beta)	0.0120 in ⁴ 0.031 in ⁶ -1.000 in 1.501 in 0.556
Stud/track end reaction (Rx)	40 lbs

Notes:

 Calculated properties are based on AISI S100-07 w/ S2-10 Supplement and AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members.

31.5 in

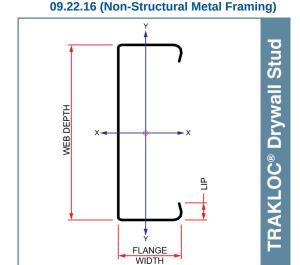
- Gross and torsional properties are based on full-unreduced cross section of the studs, away from punch-outs.
- The allowable moment based on local buckling (Mal) is based on the compression flange continuously braced.
- The distortional buckling moment (Mad) does not consider the beneficial effect of sheathing to rotational stiffness.
- For deflection calculations, use the effective moment of inertia.
- Stud/Track End Reaction (Rx) is the maximum end reaction (web crippling) capacity based on a minimum bearing length of 1 inch.
- East Coast Punch Pattern: Center of knockouts are 12" from the leading edge then 48" o.c.
- West Coast Punch Pattern: Center of knockouts are 24" from the leading edge then 24" o.c.

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)



ASTM & Code Standards:

- AISI-NASPEC 2007 w/S2-10
- Meets or exceeds ASTM C645
- SDS & Product Certification Information available at www.clarkdietrich.com



Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:
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250TLA125-18 33ksi G40 - Punched
2-1/2" TRAKLOC Stud 18 mils (25ga)

2-1/2" TRAKLOC Stud 18 mils (25ga) Drywall Stud - COMPOSITE Limiting Heights (AC86-2012)

(1 layer) 5/8" Type X Gypsum Board

Spacing		5 psf			7.5 psf			10 psf	
(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	17'-2"	14'-5"	12'-7"	14'-6"f	-	11'-0"	12'-7"f	11'-6"	10'-0"
16	15'-10"f	13'-7"	11'-10"	13'-0"	11'-10"	10'-4"	11'-3"f	10'-9"f	9'-3"
24	13'-4"f	12'-3"	10'-8"	10'-11"f	10'-8"	9'-1"	9'-5"f	9'-5"f	7'-11"

Composite Table Notes:

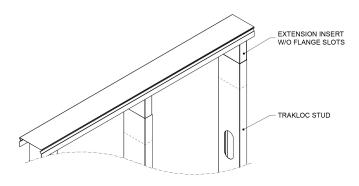
- · Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2012.
- · Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were observed.
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
- The composite limiting heights provided in the tables are based on a single layer of 5/8" Type X Gypsum Board complying with ASTM C1396 and from the following manufacturers: American Gypsum, CertainTeed, Georgia Pacific, Continental, National Gypsum or USG.
- The gypsum board must be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754 using minimum No. 6 Type S fine thread Drywall bugle head screws spaced as listed below:
 - Screws spaced a maximum of 16 inch on-center to framing members spaced at 12 inch on-center.
 - Screws spaced a maximum of 12 inch on-center to framing members spaced at 16inch or 24 inch on-center.
 - Screws spaced 16 inch on-center to the top and bottom track.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.
- The minimum overlap of the TSO (Outer Stud) and TSE (Inner Stud) must be 8 inches and the maximum un-lapped length of the TSE must be 4 inches.
- f: Adjacent to the height value indicates that flexural stress controls the allowable wall height.
- s: Adjacent to the height value indicates that shear/end reaction controls the allowable wall height.

2-1/2" TRAKLOC Stud 18 mils (25ga) Drywall Stud - NON-COMPOSITE Limiting Heights (FULLY BRACED)

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Spacing		5 psf			7.5 psf			10 psf	
(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	13'-1"	11'-0"	9'-8"	10'-8"e	10'-8"e	9'-6"	9'-3"e	9'-3"e	8'-7"e
16	11'-4"e	10'-0"	8'-9"	9'-3"e	9'-3"e	8'-7"e	8'-0"e	8'-0"e	7'-10"e
24	9'-3"e	8'-9"e	7'-8"e	7'-7"e	7'-7"e	7'-6"e	6'-7"e	6'-7"e	6'-7"e

Non-Composite Table Notes:

- Heights are based on AISI S100-07 w/S2-10 Supplement, and AISI S100-12 Specification using steel properties alone.
- Compression flange must be continuously braced.
- End bearing must be 1 inch.
- The minimum overlap of the TSO (Outer Stud) and TSE (Inner Stud) must be 8 inches and the maximum un-lapped length of the TSE must be 4 inches.
- e: Web stiffeners are required at the stud/track connection.



Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:
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