

Product Submittal Sheet

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

Product categ	jory: (TLC) TRAKLOC Deflection St	09.22.16 (Non-Str	
Product name	6001	LD125-33 33ksi G40 - P	Y	
	6" TI	RAKLOC Stud 33 mils (20		
		· .	ting: G40	
		Color coo	ling: White	
Geometric Pro	operties			
Web depth	6.000 in	Weight	1.041 lb/ft	
Flange width	1.250 in	Punchout width	1.500 in	MEB DEPTH
Stiffening lip	0.288 in	Punchout length	4.000 in	
Design thickness 0.0347 in		Minimum thickness	0.0330 in	E Â
Yield stress, Fy	33 ksi			>
Gross Section	Properties	of Full Section, Stro	ng Axis	
Cross sectional are				
Moment of inertia (I	()		1.483 in ⁴	
Radius of gyration ((Rx)		2.202 in	
Gross moment of in	nertia (Iy)		0.050 in⁴	Ý
Gross radius of gyra	ation (Ry)		0.405 in	FLA
Effective Sect	ion Propert	ies, Strong Axis		
Effective area (Ae)	-	· · ·	0.120 in ²	ASTM & Code Stand

Effective area (Ae)
Moment of inertia for deflection (Ixe)
Section modulus (Sxe)
Allowable bending moment - Local buckling (Mal)
Allowable bending moment - Distortional buckling (Mad)
Allowable shear force in web (Unpunched) (Vag)
Allowable shear force in web (Punched) (Vanet)

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)	
Stud/track end reaction (Rx)	

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.

28.2 in

1.438 in4

0.413 in³

634 lb

634 lb

8164 in-lbs

7997 in-lbs

0.1221 in⁴ 0.366 in⁶ -0.680 in 2.340 in 0.916 106 lbs

- · 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:

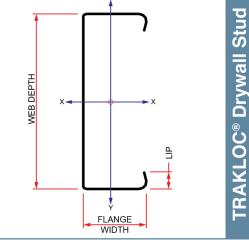
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

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)

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

09.22.16 (Non-Structural Metal Framing)



ASTM & Code Standards:

- AISI-NASPEC 2007 w/S2-10
- Meets or exceeds ASTM C645
- ICC ESR-1464 Evaluation Report
- SDS & Product Certification Information available at www.clarkdietrich.com





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Product category: Product name:

(TLD) TRAKLOC Deflection Stud 600TLD125-33 33ksi G40 - Punched 6" TRAKLOC Stud 33 mils (20ga)

6" TRAKLOC Stud 33 mils (20ga) 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	36'-0"	28'-7"	25'-0"	31'-5"	25'-0"	21'-10"	28'-7"	22'-8"	19'-10"
16	33'-9"	26'-9"	23'-5"	29'-5"	23'-5"	20'-5"	26'-9"	21'-3"	18'-7"
24	30'-3"	24'-0"	21'-0"	24'-8"s	21'-0"	18'-4"	18'-6"s	18'-6"s	16'-7"

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.

6" TRAKLOC Stud 33 mils (20ga) Drywall Stud - NON-COMPOSITE Limiting Heights (FULLY BRACED)

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	32'-8"	26'-7"	23'-3"	26'-8"	26'-2"	22'-11"	23'-1"e	23'-1"e	20'-9"
16	28'-3"	24'-2"	21'-2"	23'-1"e	23'-1"e	20'-9"	20'-0"e	20'-0"e	18'-11"e
24	23'-1"e	21'-2"	18'-5"	18'-10"e	18'-10"e	18'-2"e	16'-4"e	16'-4"e	16'-4"e

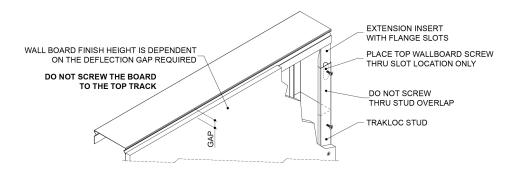
Non-Composite Table Notes:

• 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	
Name:	
Address:	

Contractor Information

Name: Contact: Phone: Fax: Architect Information Name: Contact: Phone: Fax:

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