

Product Submittal Sheet

Tech Support: 888-437-3244 Engineering Services: 877-832-3206

Sales: 800-543-7140 clarkdietrich.com

Product category: (TLE) TRAKLOC Elevator Stud **Product name:** 362TLE125-33 33ksi G40 - Punched 3-5/8" TRAKLOC Stud 33 mils (20ga)

Coating: G40

Color coding: White

Geometric Properties

Web depth	3.625 in	Weight	0.741 lb/ft
Flange width	1.250 in	Punchout width	1.500 in
Stiffening lip	0.288 in	Punchout length	4.000 in
Design thickness	0.0347 in	Minimum thickness	0.0330 in
Yield stress, Fy	33 ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.218 in ²
Moment of inertia (Ix)	1.034 in⁴
Radius of gyration (Rx)	2.178 in
Gross moment of inertia (Iy)	0.033 in ⁴
Gross radius of gyration (Ry)	0.388 in

Effective Section Properties, Strong Axis

Effective area (Ae)	0.067 in ²
Moment of inertia for deflection (Ixe)	0.911 in⁴
Section modulus (Sxe)	0.188 in ³
Allowable bending moment - Local buckling (Mal)	6427 in-lbs
Allowable bending moment - Distortional buckling (Mad)	5847 in-lbs
Allowable shear force in web (Unpunched) (Vag)	241 lb
Allowable shear force in web (Punched) (Vanet)	- Ib

Torsional Properties

Unbraced Length (Lu)

St. Venant torsion constant (J x 1000)	0.0454 in⁴
Warping constant (Cw)	0.235 in ⁶
Distance from shear center to neutral axis (Xo)	-0.646 in
Radii of gyration (Ro)	2.305 in
Torsional flexural constant (Beta)	0.921
Stud/track end reaction (Rx)	85 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.

21.6 in

- · Gross and torsional properties are based on full-unreduced cross section of the studs, away from punch-outs.
- 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.
- The minimum overlap of the TSO (Outer Stud) and TSE (Inner Stud) must be minimum 11 inches and for the non-composite wall configuration must be connected with a minimum of (4) #8 x 9/16" long wafer head screws complying with ASTM C1513.
- 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

Fax:

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)

TRAKLOC® Drywall Stud **WEB DEPTH** FLANGE

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



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

Fax:

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362TLE125-33 33ksi G40 - Punched
3-5/8" TRAKLOC Stud 33 mils (20ga)

3-5/8" 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	25'-4"	20'-1"	17'-7"	22'-2"	17'-7"	15'-4"	20'-1"	15'-11"	13'-11"
16	23'-0"	18'-3"	15'-11"	20'-1"	15'-11"	13'-11"	18'-3"	14'-6"	12'-8"
24	20'-1"	15'-11"	13'-11"	17'-7"	13'-11"	12'-1"	15'-11"	12'-8"	10'-11"

Composite Table Notes:

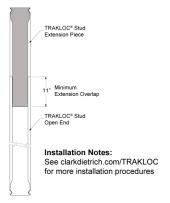
- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2012.
- · Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were observed.
- In accordance with current building codes and AISI design standards, the 1/3 Stress 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 12 inch on-center studs.
 - 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 11 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.

3-5/8" 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	21'-9"	17'-3"	15'-1"	19'-2"	17'-0"	14'-10"	16'-7"	15'-5"	13'-6"
16	19'-9"	15'-8"	13'-9"	16'-7"	15'-5"	13'-6"	14'-4"	14'-0"	12'-3"
24	16'-7"	13'-9"	12'-0"	13'-6"	13'-6"	11'-9"	11'-9"	11'-9"	10'-9"

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 11 inches and must be connected with a minimum of (4) #8 x 9/16" long wafer head screws complying with ASTM C1513.
- 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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