

Product category: (TLE) TRAKLOC Elevator Stud
Product name: 362TLE125-30 33ksi G40 - Punched
 3-5/8" TRAKLOC Stud 30 mils (20ga DW)
 Coating: G40
 Color coding: Pink

Geometric Properties

Web depth	3.625 in	Weight	0.571 lb/ft
Flange width	1.250 in	Punchout width	1.500 in
Stiffening lip	0.288 in	Punchout length	4.000 in
Design thickness	0.0312 in	Minimum thickness	0.0296 in
Yield stress, Fy	33 ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.168 in ²
Moment of inertia (Ix)	0.387 in ⁴
Radius of gyration (Rx)	1.518 in
Gross moment of inertia (Iy)	0.029 in ⁴
Gross radius of gyration (Ry)	0.419 in

Effective Section Properties, Strong Axis

Effective area (Ae)	0.067 in ²
Moment of inertia for deflection (Ixe)	0.356 in ⁴
Section modulus (Sxe)	0.120 in ³
Allowable bending moment - Local buckling (Mal)	4094 in-lbs
Allowable bending moment - Distortional buckling (Mad)	3957 in-lbs
Allowable shear force in web (Unpunched) (Vag)	368 lb
Allowable shear force in web (Punched) (Vanet)	311 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	0.0350 in ⁴
Warping constant (Cw)	0.094 in ⁶
Distance from shear center to neutral axis (Xo)	-0.783 in
Radii of gyration (Ro)	1.759 in
Torsional flexural constant (Beta)	0.802

Stud/track end reaction (Rx)	119 lbs
Unbraced Length (Lu)	22.3 in

Notes:

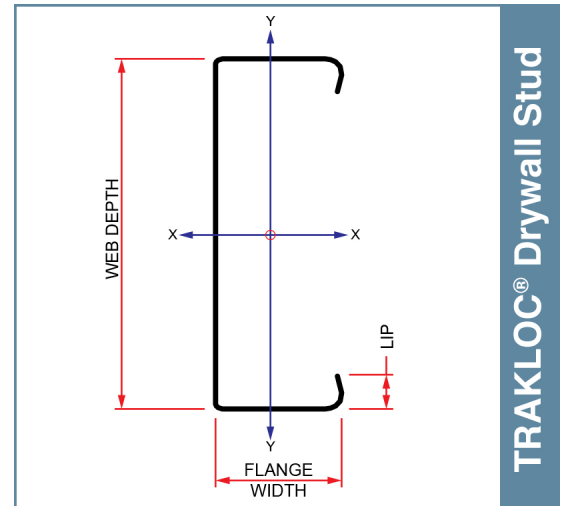
- Calculated properties are based on AISI S100-07 w/ S2-10 Supplement and AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members.
- Gross and torsional properties are based on full-unreduced cross section of the studs, away from punch-outs.
- The distortional buckling 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 clarkdietrich.com/LEED.

LEED v4.1 MR Credit: Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)

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).

09.22.16 (Non-Structural Metal Framing)



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

Name:
Address:

Contractor Information

Name:
Contact:
Phone:
Fax:

Architect Information

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Fax:

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Product name: 362TLE125-30 33ksi G40 - Punched
 3-5/8" TRAKLOC Stud 30 mils (20ga DW)

3-5/8" TRAKLOC Stud 30 mils (20ga DW) Drywall Stud - COMPOSITE Limiting Heights (AC86-2012)

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

Spacing (inches)	5 psf			7.5 psf			10 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	24'-5"	19'-5"	16'-11"	21'-4"	16'-11"	14'-10"	19'-5"	15'-5"	13'-5"
16	22'-3"	17'-8"	15'-5"	19'-5"	15'-5"	13'-5"	17'-8"	14'-0"	12'-1"
24	19'-5"	15'-5"	13'-5"	16'-11"	13'-5"	11'-7"	15'-5"	12'-1"	10'-4"

Composite Table Notes:

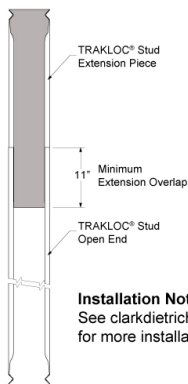
- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2012.
- Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were observed.
- In accordance with current building codes and AISI design standards, the 1/3 Stress 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 30 mils (20ga DW) Drywall Stud - NON-COMPOSITE Limiting Heights (FULLY BRACED)

Spacing (inches)	5 psf			7.5 psf			10 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	21'-4"	17'-0"	14'-10"	17'-9"	16'-8"	14'-7"	15'-4"	15'-2"	13'-3"
16	18'-10"	15'-5"	13'-6"	15'-4"	15'-2"	13'-3"	13'-3"	13'-3"	12'-0"
24	15'-4"	13'-6"	11'-9"	12'-6"	12'-6"	11'-7"	10'-10"	10'-10"	10'-6"

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.



Installation Notes:
 See clarkdietrich.com/TRAKLOC
 for more installation procedures

Project Information

Name:
 Address:

Contractor Information

Name:
 Contact:
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Architect Information

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