TRAKLOC® PRODUCT CATALOG

ClarkDietrich
BUILDING SYSTEMS

DRYWALL FRAMING SYSTEM

TRAKLOC® Steel Framing is a revolutionary development in cold-formed steel framing systems. Unlike traditional steel studs, which are cut to length for varying jobsite conditions, TRAKLOC allows you to order one length member and "adjust" the length accordingly for variances in the slab. The stud consists of a traditional-style framing member combined with an interlocking adjustable component. The adjustable portion allows for telescopic length adjustments and can accommodate variances in the slab, and minor wall height differences.

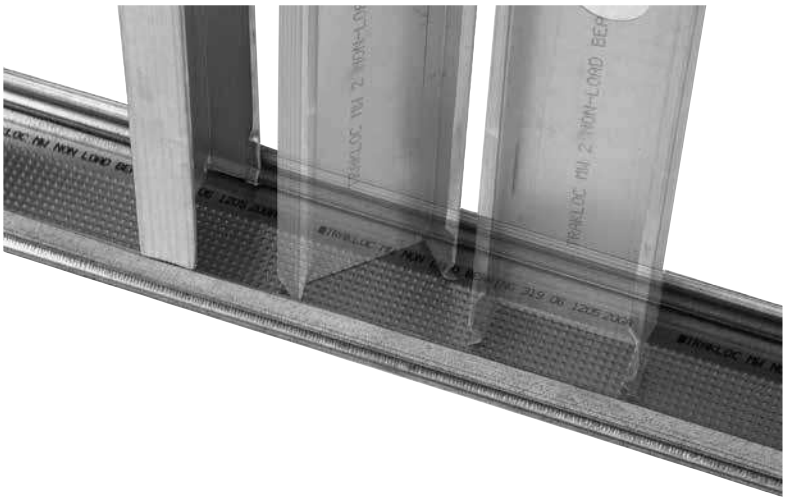
TRAKLOC's ICC-ES Report # ESR-1464 is in compliance with the 2012 International Building Code® (IBC) and 2010 California Building Code (CBC) for use in non-load bearing interior walls. The TRAKLOC system is Intertek Warnock Hersey Design Listed and approved for use in both one and two-hour fire-rated head-of-wall assemblies requiring deflection in accordance with ASTM E-119 and ASTM E-1966. Intertek Design Listings Nos. on inside back cover.

FEATURES AND BENEFITS

- Available in 18mil (25ga) 33ksi, 24mil (20EQ) 57ksi, 30mil (20ga DW) 33ksi and 33mil (20ga) 33ksi.
- Available in 2-1/2", 3-5/8", 4" and 6". For use in non-load-bearing interior walls.
- Twists and locks into place. Studs can be installed from the ground, greatly reducing time spent climbing ladders and scaffolding.
- Installation of TRAKLOC is ICC-ES approved *without* the use of fasteners to attach the studs to the top or bottom track. ICC-ES Report # ESR-1464.
- Significant productivity gains are possible versus conventional stud and track framing. This results in substantial installed cost savings!
- Safer Framing System™ reduces jobsite hazards. Less time spent climbing scaffolds, ladders, lifts and bending over to install screws result in fewer job related injuries and reduced workers compensation costs. Less cutting of studs with noisy chop saws.
- Allows for seismic and live-load vertical inter-floor deflection in the stud, not the track. This feature eliminates the need for deflection tracks in fire-rated head-of-wall assemblies.

The TRAKLOC product line provided by ClarkDietrich Building Systems is licensed under the following U.S. and Foreign Patents:

U.S. Patent No. 7,223,043
U.S. Patent No. 7,594,311
U.S. Patent No. 8,061,099
U.S. Patent No. 8,074,416
Japan Patent No. 4934868
Japan Patent No. 5156889
Australia Patent No. 2006201344
Australia Patent No. 2005332657



TRAKLOC® STUDS

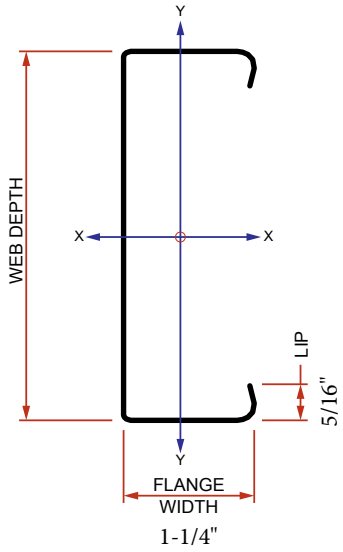
TRAKLOC studs are available in four configurations:

- TRAKLOC Fixed Length Stud (TLF)
- TRAKLOC Adjustable Stud (TLA)
- TRAKLOC Deflection Stud (TLD)
- TRAKLOC Elevator Stud (TLE)

The fixed length studs (TLF) are ordered to length, are single piece components, and are swaged at each end to interlock with the TRAKLOC Track. This product is used in applications where the partition height is consistent and speed of installation is of critical importance. The unique swage at the end of each stud allows for quick, tight installation eliminating the need for framing screws or a lift/ladder to install the framing screws.

The variable length studs, Adjustable (TLA), Deflection (TLD) and Elevator (TLE) are two piece components which allow for the telescoping feature unique to TRAKLOC. The two piece components arrive pre-assembled to help speed assembly. The installer simply inserts the top end of the stud in the top track and then extends the stud (telescoping) to the proper length to engage the bottom end of the stud in the bottom track.

Storage Requirements: TRAKLOC is a dynamic system consisting of two moving parts. To maintain the telescoping feature of this system, it is important to store TRAKLOC studs indoors, free of excessive dust and airborne particulates.

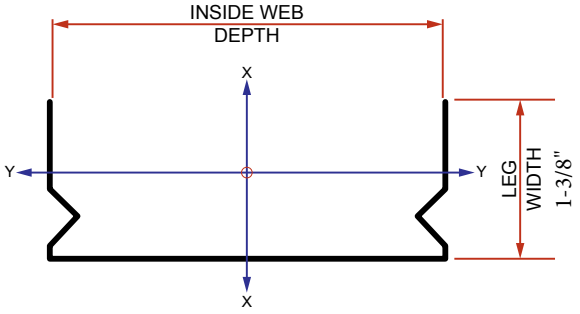


TRAKLOC Drywall Stud

TRAKLOC® TRACK

TRAKLOC track has two unique features. The most obvious feature of the TRAKLOC track is the V-groove rolled into the flanges of the track to match the swaged ends of the TRAKLOC stud. Next, are the dimples pressed into the center of the web. Together, the V-groove and the dimples provide a positive connection between stud and track without the need for mechanical fasteners.

TRAKLOC track standard length is 10'-0". Shorter lengths are available for non-standard conditions.



TRAKLOC Drywall Track

The technical content of this literature is effective 8/1/17 and supersedes all previous information. Pub. No. CD-TRAKLOC 8/17

TRAKLOC® STUD PRODUCTS

TRAKLOC® FIXED LENGTH STUD (TLF)

TRAKLOC stud without telescopic extension. Studs are fixed length and not adjustable and have a TRAKLOC swaged end on both ends of the stud allowing the stud to be connected to the top and bottom track without fasteners.

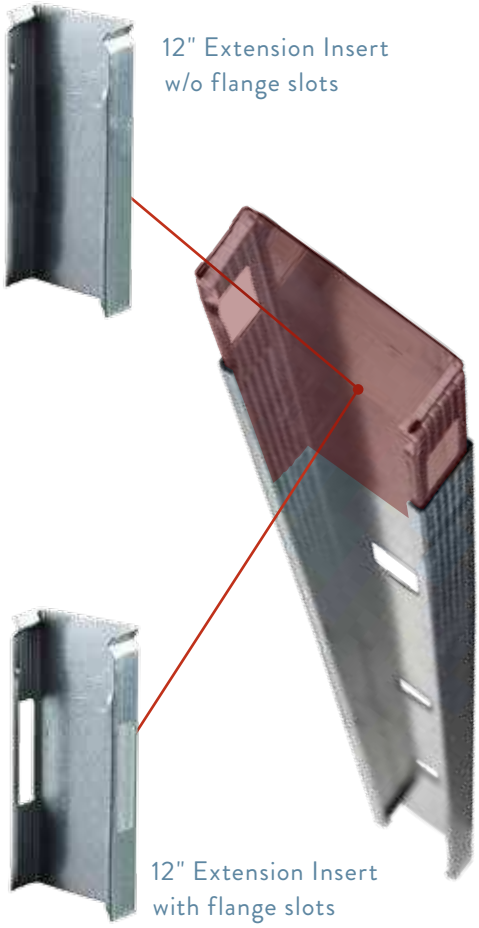
- Connected without the use of fasteners
- Ideal for partition walls that do not go from deck to deck and non-composite "above-grid" wall assemblies that have suspended ceilings, as well as TI (tenant improvement) and remodel applications
- Less time on lifts/ladders

Fixed Length Stud with swages on each end

TRAKLOC® ADJUSTABLE STUD (TLA)

The TRAKLOC adjustable stud can be used in composite, non-composite, rated or non-rated wall assemblies that extend from deck to deck and do not require allowance for live-load and or seismic-induced inter-floor vertical deflection. Extension inserts are 12" long.

- Accommodates variation in floor to ceiling heights
- Eliminates need to measure and cut studs on jobsite
- Project schedule time savings and installed cost saving



12" Extension Insert w/o flange slots

12" Extension Insert with flange slots

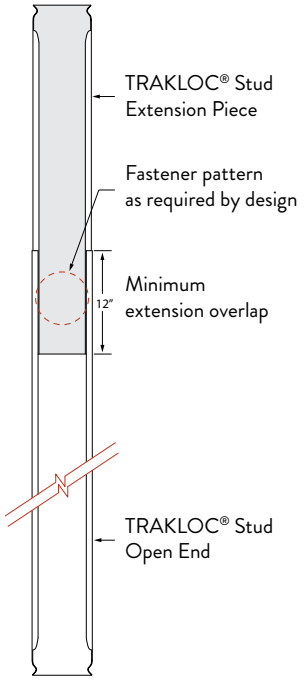
TRAKLOC® DEFLECTION STUD (TLD)

The TRAKLOC deflection stud is similar to our TRAKLOC adjustable stud, except the 12" long extension insert has slots cut out of the flanges. This allows the drywall screw to pass through the drywall and the outer portion of the stud while passing through the slot. The slot allows the drywall to be attached while still allowing for seismic and/or live-load induced inter-floor deflection at the head-of-wall joint.

- Allows for seismic and live-load vertical inter-floor deflection
- Tested in accordance with ASTM E-119 and ASTM E-1966
- Approved for use in one-hour and two-hour fire-rated head-of-wall deflection assemblies
- Intertek Warnock Hersey Design Listed
- Provides 1" (+/- 1/2") of deflection
- Allows up to 2" of stud height adjustability

TRAKLOC® ELEVATOR STUD™ (TLE)

The two-piece elevator studs arrive in a compressed position to accommodate stocking in a building elevator and then can be extended (telescoped) to the required length at point of installation. This reduces the cost of stocking long studs on floors accessible only by elevators and stairways. The elevator stud is ordered in a length that is just slightly over half the total length of the finished stud. For example, a 10' (when compressed) elevator stud can extend up to an installed length of 18'.



Deflection can be easily achieved with elevator studs by using TRAKLOC track on the bottom of the wall and MaxTrak™ Slotted Deflection Track at the head of wall.

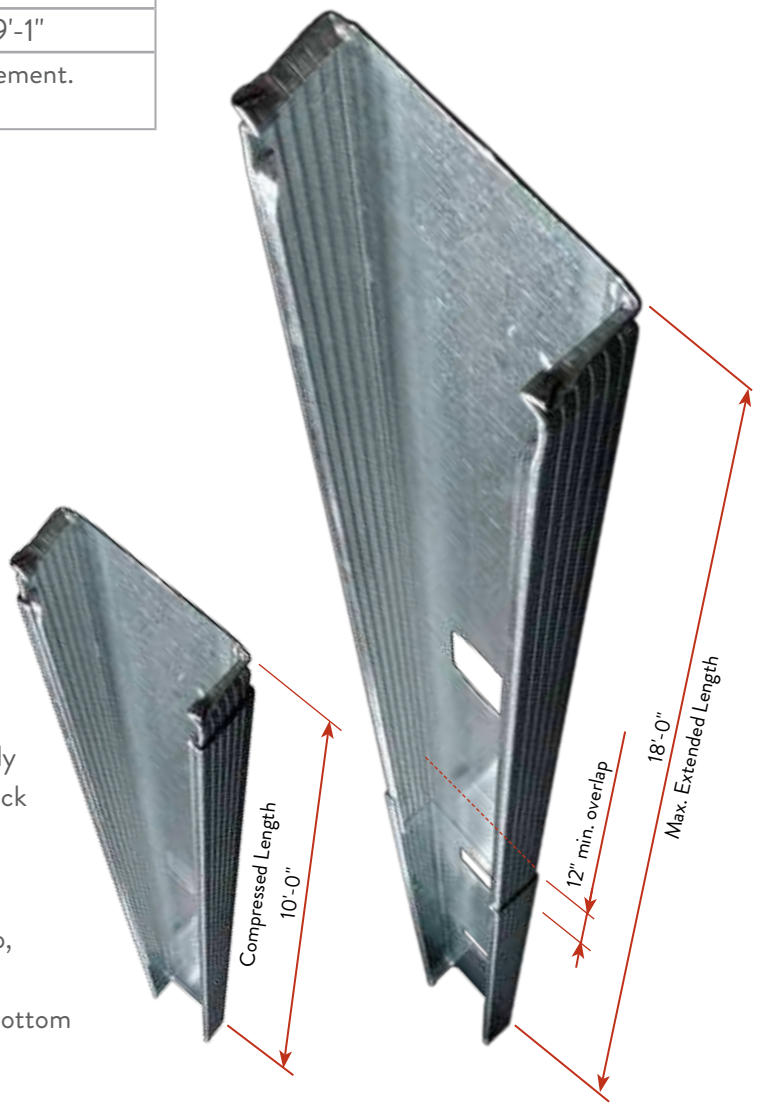
Stock Lengths for TRAKLOC Elevator Studs		
Required Deck Height	Extended Length	Collapsed Length
12'	12'-2"	7'-1"
14'	14'-2"	8'-1"
16'	16'-2"	9'-1"
Made to order lengths available to fit nearly any requirement. *Stock lengths vary by location.		

For made to order length Elevator Studs, the formula for length determination is as follows:

1. Establish required deck height.
2. Add 12" to required deck height (for overlap).
3. Divide the total by two.

This will be the length of the main outer stud and the inner extension stud. Collapsed length will be the length of the main outer stud, plus 6" to allow the inner extension stud to stick out of the main outer stud by 6".

Example as shown:
Required deck height = 18'
18' + 12" = 19'
19' divided by two = 9'-6"
Both the main outer stud and the inner extension stud will be 9'-6". The assembled and collapsed length will be approximately 10'-0". All you need to do is tell ClarkDietrich the required deck height and we will handle the rest.



*Due to the fastening of the drywall to the TRAKLOC overlap, Elevator Studs are not for deflection by themselves. However, deflection can be achieved by using TRAKLOC track on the bottom of the wall and slotted deflection track at the head of the wall.

The technical content of this literature is effective 8/1/17 and supersedes all previous information.

TRAKLOC® COMPOSITE LIMITING HEIGHTS
with 5/8" Type X Gypsum Board

TRAKLOC Adjustable Studs (TLA)
TRAKLOC Fixed Length Studs (TLF)

Width (in)	Stud Member (TLA) (TLF)	Design thickness (in)	Yield strength (ksi)	Spacing (in)	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
2-1/2	TRAKLOC 25 (18mil) 250___125-18	0.0188	33	12	17'-2"	14'-5"	12'-7"	14'-6" f	12'-8"	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"
	TRAKLOC 20EQ (24mil) 250___125-24	0.0250	57	12	16'-10"	14'-10"	13'-1"	15'-0"	13'-0"	11'-5"	13'-9"	11'-10"	10'-4"
				16	16'-8"	13'-9"	12'-1"	14'-7"	12'-0"	10'-7"	13'-3"	10'-11"	9'-7"
				24	14'-10"	12'-3"	10'-9"	13'-0"	10'-8"	9'-3"	11'-9"	9'-8"	8'-2"
	TRAKLOC 30mil 250___125-30	0.0312	33	12	18'-5"	16'-0"	14'-0"	16'-2"	14'-0"	12'-3"	14'-9"	12'-8"	11'-2"
				16	17'-6"	15'-0"	13'-2"	15'-4"	13'-1"	11'-6"	13'-11"	11'-11"	10'-6"
				24	15'-9"	13'-5"	11'-10"	13'-9"	11'-9"	10'-4"	12'-6"	10'-8"	9'-3"
	TRAKLOC 33mil 250___125-33	0.0346	33	12	20'-11"	16'-7"	14'-6"	18'-3"	14'-6"	12'-8"	16'-7"	13'-2"	11'-6"
				16	19'-0"	15'-1"	13'-2"	16'-7"	13'-2"	11'-6"	15'-1"	12'-0"	10'-6"
				24	16'-7"	13'-2"	11'-6"	14'-6"	11'-6"	10'-1"	13'-2"	10'-6"	9'-0"
3-5/8	TRAKLOC 25 (18mil) 362___125-18	0.0188	33	12	21'-7"	17'-11"	15'-8"	18'-10" f	15'-8"	13'-8"	16'-4" f	14'-3"	12'-5"
				16	20'-0" f	16'-8"	14'-7"	16'-4" f	14'-7"	12'-8"	14'-1" f	13'-3"	11'-6"
				24	16'-4" f	14'-10"	13'-0"	13'-4" f	13'-0"	11'-2"	11'-6" f	11'-6" f	9'-10"
	TRAKLOC 20EQ (24mil) 362___125-24	0.0250	57	12	24'-1"	19'-1"	16'-8"	21'-0"	16'-8"	14'-7"	19'-1"	15'-2"	13'-3"
				16	21'-10"	17'-4"	15'-2"	19'-1"	15'-2"	13'-3"	17'-4"	13'-9"	12'-0"
				24	19'-1"	15'-2"	13'-3"	16'-8"	13'-3"	11'-6"	15'-0" f	12'-0"	10'-4"
	TRAKLOC 30mil 362___125-30	0.0312	33	12	24'-7"	20'-2"	17'-10"	21'-6"	17'-8"	15'-7"	19'-6"	16'-0"	14'-2"
				16	22'-8"	18'-8"	16'-6"	19'-10"	16'-4"	14'-5"	18'-0"	14'-10"	13'-1"
				24	20'-1"	16'-7"	14'-7"	17'-7"	14'-6"	12'-9"	16'-0"	13'-2"	11'-7"
	TRAKLOC 33mil 362___125-33	0.0346	33	12	25'-5"	20'-2"	17'-7"	22'-2"	17'-7"	15'-4"	20'-2"	16'-0"	14'-0"
				16	23'-9"	18'-10"	16'-6"	20'-9"	16'-6"	14'-5"	18'-10"	15'-0"	13'-1"
				24	21'-4"	16'-11"	14'-10"	18'-8"	14'-10"	12'-11"	16'-11"	13'-5"	11'-8"
4	TRAKLOC 25 (18mil) 400___125-18	0.0188	33	12	23'-4"	18'-6"	16'-4"	19'-5" f	16'-2"	14'-3"	16'-10" f	14'-8"	12'-11"
				16	20'-7" f	17'-5"	15'-4"	16'-10" f	15'-3"	13'-5"	14'-7" f	13'-10"	12'-2"
				24	16'-10" f	15'-9"	13'-10"	13'-9" f	13'-9"	12'-1"	11'-11" f	11'-11" f	10'-9"
	TRAKLOC 20EQ (24mil) 400___125-24	0.0250	57	12	24'-4"	19'-4"	16'-11"	21'-3"	16'-11"	14'-9"	19'-4"	15'-4"	13'-5"
				16	23'-1"	18'-4"	16'-0"	20'-2"	16'-0"	14'-0"	18'-4"	14'-7"	12'-9"
				24	21'-0"	16'-8"	14'-7"	18'-4"	14'-7"	12'-9"	16'-0" f	13'-3"	11'-6"
	TRAKLOC 30mil 400___125-30	0.0312	33	12	26'-3"	20'-11"	18'-4"	23'-0"	18'-5"	16'-3"	20'-10"	16'-10"	14'-11"
				16	24'-3"	19'-11"	17'-5"	21'-2"	17'-5"	15'-3"	19'-3"	15'-10"	13'-11"
				24	21'-6"	17'-8"	15'-7"	18'-9"	15'-5"	13'-7"	17'-1"	14'-0"	12'-4"
	TRAKLOC 33mil 400___125-33	0.0346	33	12	27'-7"	22'-9"	19'-11"	24'-1"	19'-10"	17'-6"	21'-10"	18'-1"	15'-11"
				16	25'-0"	20'-8"	18'-2"	21'-10"	18'-1"	15'-11"	19'-10"	16'-5"	14'-5"
				24	21'-10"	18'-1"	15'-11"	19'-1"	15'-9"	13'-11"	17'-4"	14'-4"	12'-8"
6	TRAKLOC 25 (18mil) 600___125-18	0.0188	33	12	30'-5" f	25'-3"	22'-5"	24'-10" f	22'-0"	19'-7"	21'-6" f	20'-0"	17'-9"
				16	26'-4" f	23'-4"	20'-9"	21'-6" f	20'-5"	18'-2"	18'-7" f	18'-7" f	16'-6"
				24	21'-6" f	20'-9"	18'-5"	17'-7" f	17'-7" f	16'-1"	15'-2" f	15'-2" f	14'-5"
	TRAKLOC 20EQ (24mil) 600___125-24	0.0250	57	12	33'-5"	27'-4"	24'-2"	29'-2"	23'-11"	21'-1"	26'-6"	21'-8"	19'-2"
				16	30'-4"	24'-10"	21'-11"	26'-6"	21'-8"	19'-2"	24'-1"	19'-9"	17'-5"
				24	26'-6"	21'-8"	19'-2"	23'-2"	18'-11"	16'-9"	20'-1" f	17'-3"	15'-2"
	TRAKLOC 30mil 600___125-30	0.0312	33	12	35'-5"	28'-1"	24'-6"	30'-11"	24'-6"	21'-5"	28'-1"	22'-4"	19'-6"
				16	33'-3"	26'-4"	23'-0"	29'-0"	23'-0"	20'-1"	26'-4"	20'-11"	18'-3"
				24	29'-11"	23'-9"	20'-9"	25'-10" f	20'-9"	18'-1"	22'-4" f	18'-10"	16'-5"
	TRAKLOC 33mil 600___125-33	0.0346	33	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" f	21'-3"	18'-7"
				24	30'-3"	24'-0"	21'-0"	25'-11" f	21'-0"	18'-4"	22'-5" f	19'-1"	16'-7"

NOTES

1 Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2012.
2 Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were observed.
3 In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
4 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.
5 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 Drywall screws spaced as listed below:
- Screws spaced a maximum of 16" on-center to framing members spaced at 12" on-center.
- Screws spaced a maximum of 12" on-center to framing members spaced at 16" or 24" on-center.
- Screws spaced 16" on-center to the top and bottom track.

6 No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
7 Stud end bearing must be a minimum of 1 inch.
8 For TRAKLOC Adjustable Stud (TLA) System, 12" long end inserts must have no less than an 8" overlap.
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.

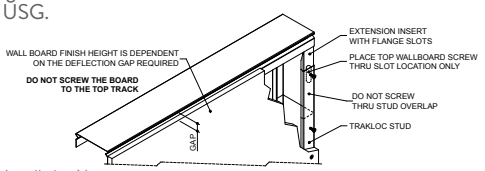
TRAKLOC® COMPOSITE LIMITING HEIGHTS
with 5/8" Type X Gypsum Board

Width (in)	Stud Member (TLD)	Design thickness (in)	Yield strength (ksi)	Spacing (in)	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
2-1/2	TRAKLOC 25 (18mil) 250TLD125-18	0.0188	33	12	17'-2"	14'-5"	12'-7"	14'-6" f	12'-8"	11'-0"	12'-7" f	11'-6"	10'-0"
				16	15'-10" f	13'-7"	11'-10"	13'-0"	11'-10"	10'-4"	11'-2" s	10'-9"	9'-3"
				24	13'-4" f	12'-3"	10'-8"	9'-11" s	9'-11" s	9'-1"	—	—	—
	TRAKLOC 20EQ (24mil) 250TLD125-24	0.0250	57	12	16'-10"	14'-10"	13'-1"	15'-0"	13'-0"	11'-5"	13'-9"	11'-10"	10'-4"
				16	16'-8"	13'-9"	12'-1"	14'-7"	12'-0"	10'-7"	13'-3"	10'-11"	9'-7"
				24	14'-10"	12'-3"	10'-9"	13'-0"	10'-8"	9'-3"	11'-9"	9'-8"	8'-2"
	TRAKLOC 30mil 250TLD125-30	0.0312	33	12	18'-5"	16'-0"	14'-0"	16'-2"	14'-0"	12'-3"	14'-9"	12'-8"	11'-2"
				16	17'-6"	15'-0"	13'-2"	15'-4"	13'-1"	11'-6"	13'-11"	11'-11"	10'-6"
				24	15'-9"	13'-5"	11'-10"	13'-9"	11'-9"	10'-4"	12'-6"	10'-8"	9'-3"
	TRAKLOC 33mil 250TLD125-33	0.0346	33	12	20'-11"	16'-7"	14'-6"	18'-3"	14'-6"	12'-8"	16'-7"	13'-2"	11'-6"
				16	19'-0"	15'-1"	13'-2"	16'-7"	13'-2"	11'-6"	15'-1"	12'-0"	10'-6"
				24	16'-7"	13'-2"	11'-6"	14'-6"	11'-6"	10'-1"	13'-2"	10'-6"	9'-0"
3-5/8	TRAKLOC 25 (18mil) 362TLD125-18	0.0188	33	12	21'-7"	17'-11"	15'-8"	15'-10" s	15'-8" s	13'-8"	11'-10" s	11'-10" s	11'-10" s
				16	17'-9" s	16'-8"	14'-7"	11'-10" s	11'-10" s	11'-10" s	8'-11" s	8'-11" s	8'-11" s
				24	11'-10" s	11'-10" s	11'-10" s	7'-11" s	7'-11" s	7'-11" s	—	—	—
	TRAKLOC 20EQ (24mil) 362TLD125-24	0.0250	57	12	24'-1"	19'-1"	16'-8"	21'-0"	16'-8"	14'-7"	19'-1"	15'-2"	13'-3"
				16	21'-10"	17'-4"	15'-2"	19'-1"	15'-2"	13'-3"	17'-4"	13'-9"	12'-0"
				24	19'-1"	15'-2"	13'-3"	16'-8"	13'-3"	11'-6"	14'-11" f	12'-0"	10'-4"
	TRAKLOC 30mil 362TLD125-30	0.0312	33	12	24'-7"	20'-2"	17'-10"	21'-6"	17'-8"	15'-7"	19'-6"	16'-0"	14'-2"
				16	22'-8"	18'-8"	16'-6"	19'-10"	16'-4"	14'-5"	18'-0"	14'-10"	13'-1"
				24	20'-1"	16'-7"	14'-7"	17'-7"	14'-6"	12'-9"	16'-0"	13'-2"	11'-7"
	TRAKLOC 33mil 362TLD125-33	0.0346	33	12	25'-5"	20'-2"	17'-7"	22'-2"	17'-7"	15'-4"	20'-2"	16'-0"	14'-0"
				16	23'-9"	18'-10"	16'-6"	20'-9"	16'-6"	14'-5"	18'-10"	15'-0"	13'-1"
				24	21'-4"	16'-11"	14'-10"	18'-8"	14'-10"	12'-11"	16'-11"	13'-5"	11'-8"
4	TRAKLOC 25 (18mil) 400TLD125-18	0.0188	33	12	23'-4" f	18'-6"	16'-4"	19'-5" f	16'-2"	14'-3"	16'-10" f	14'-8"	12'-11"
				16	20'-7" f	17'-5"	15'-4"	16'-10" f	15'-3"	13'-5"	12'-9" s	12'-9" s	12'-2"
				24	16'-10" f	15'-9"	13'-10"	11'-4" s	11'-4" s	11'-4" s	8'-6" s	8'-6" s	8'-6" s
	TRAKLOC 20EQ (24mil) 400TLD125-24	0.0250	57	12	24'-4"	19'-4"	16'-11"	21'-3"	16'-11"	14'-9"	19'-4"	15'-4"	13'-5"
				16	23'-1"	18'-4"	16'-0"	20'-2"	16'-0"	14'-0"	18'-4"	14'-7"	12'-9"
				24	21'-0"	16'-8"	14'-7"	18'-4"	14'-7"	12'-9"	16'-0" f	13'-3"	11'-6"
	TRAKLOC 30mil 400TLD125-30	0.0312	33	12	26'-3"	20'-11"	18'-4"	23'-0"	18'-5"	16'-3"	20'-10"	16'-10"	14'-11"
				16	24'-3"	19'-11"	17'-5"	21'-2"	17'-5"	15'-3"	19'-3"	15'-10"	13'-11"
				24	21'-6"	17'-8"	15'-7"	18'-9"	15'-5"	13'-7"	17'-1"	14'-0"	12'-4"
	TRAKLOC 33mil 400TLD125-33	0.0346	33	12	27'-7"	22'-9"	19'-11"	24'-1"	19'-10"	17'-6"	21'-10"	18'-1"	15'-11"
				16	25'-0"	20'-8"	18'-2"	21'-10"	18'-1"	15'-11"	19'-10"	16'-5"	14'-5"
				24	21'-10"	18'-1"	15'-11"	19'-1"	15'-9"	13'-11"	17'-4"	14'-4"	12'-8"
6	TRAKLOC 25 (18mil) 600TLD125-18	0.0188	33	12	20'-8" s	20'-8" s	20'-8" s	13'-10" s	13'-10" s	13'-10" s	—	—	—
				16	15'-6" s	15'-6" s	15'-6" s	—	—	—	—	—	—
				24	—	—	—	—	—	—	—	—	—
	TRAKLOC 20EQ (24mil) 600TLD125-24	0.0250	57	12	33'-5"	27'-4"	24'-2"	29'-2"	23'-11"	21'-1"	24'-2" s	21'-8"	19'-2"
				16	30'-4"	24'-10"	21'-11"	24'-2" s	21'-8"	19'-2"	18'-1" s	18'-1" s	17'-5" s
				24	24'-2" s	21'-8"	19'-2"	16'-1" s	16'-1" s	16'-1" s	12'-1" s	12'-1" s	12'-1" s
	TRAKLOC 30mil 600TLD125-30	0.0312	33	12	35'-5"	28'-1"	24'-6"	30'-11"	24'-6"	21'-5"	28'-1"	22'-4"	19'-6"
				16	33'-3"	26'-4"	23'-0"	29'-0"	23'-0"	20'-1"	26'-4"	20'-11"	18'-3"
				24	29'-11"	23'-9"	20'-9"	23'-7" s	20'-9"	18'-1"	17'-8" s	17'-8" s	16'-5"
	TRAKLOC 33mil 600TLD125-33	0.0346	33	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"

NOTES

1 Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2012.
2 Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were observed.
3 In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
4 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.
5 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 Drywall screws spaced as listed below:
- Screws spaced a maximum of 16" on-center to framing members spaced at 12" on-center.
- Screws spaced a maximum of 12" on-center to framing members spaced at 16" or 24" on-center.
- Screws spaced 16" on-center to the bottom track only.

6 No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
7 Stud end bearing must be a minimum of 1 inch.
8 For TRAKLOC Deflection Stud (TLD) System, 12" long end inserts must have no less than an 8" overlap.
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.



Installation Notes:
If deflection is required at the head of wall, do not attach the wallboard to the top track. Only place top wallboard screws thru slot location shown above. See clarkdietrich.com/TRAKLOC for more installation procedures.

The technical content of this literature is effective 8/1/17 and supersedes all previous information.
Pub. No. CD-TRAKLOC 8/17

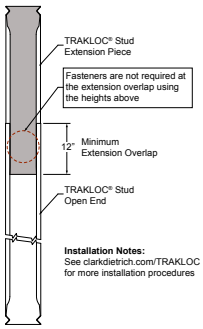
TRAKLOC® COMPOSITE LIMITING HEIGHTS
with 5/8" Type X Gypsum Board

TRAKLOC Elevator Studs (TLE)

Width (in)	Stud Member (TLE)	Design thickness (in)	Yield strength (ksi)	Spacing (in)	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
2-1/2	TRAKLOC 25 (18mil) 250TLE125-18	0.0188	33	12	17'-0"	15'-1"	12'-11"	14'-11"	13'-2"	11'-4"	13'-6"	12'-0"	10'-3"
				16	15'-6"	13'-9"	11'-9"	13'-6"	12'-0"	10'-3"	12'-0" f	10'-11"	9'-0"
				24	13'-6"	12'-0"	10'-3"	11'-4" f	10'-6"	8'-6"	9'-10" f	9'-5"	–
	TRAKLOC 20EQ (24mil) 250TLE125-24	0.0250	57	12	18'-9"	15'-9"	13'-8"	16'-5"	13'-9"	12'-0"	14'-11"	12'-6"	10'-11"
				16	17'-1"	14'-4"	12'-5"	14'-11"	12'-6"	10'-11"	13'-6"	11'-4"	9'-11"
				24	14'-11"	12'-6"	10'-11"	13'-0"	10'-11"	9'-4"	11'-10"	9'-11"	7'-10"
	TRAKLOC 30mil 250TLE125-30	0.0312	33	12	20'-0"	16'-9"	14'-7"	17'-6"	14'-7"	12'-8"	15'-11"	13'-3"	11'-7"
				16	18'-2"	15'-2"	13'-3"	15'-11"	13'-3"	11'-7"	14'-5"	12'-1"	10'-6"
				24	15'-11"	13'-3"	11'-7"	13'-11"	11'-7"	10'-1"	12'-7"	10'-6"	8'-9"
	TRAKLOC 33mil 250TLE125-33	0.0346	33	12	20'-0"	16'-9"	14'-7"	17'-6"	14'-7"	12'-8"	15'-11"	13'-3"	11'-7"
				16	18'-2"	15'-2"	13'-3"	15'-11"	13'-3"	11'-7"	14'-5"	12'-1"	10'-6"
				24	15'-11"	13'-3"	11'-7"	13'-11"	11'-7"	10'-1"	12'-7"	10'-6"	8'-9"
3-5/8	TRAKLOC 25 (18mil) 362TLE125-18	0.0188	33	12	20'-7"	17'-2"	14'-6"	18'-0"	15'-0"	12'-8"	16'-1" f	13'-7"	11'-5"
				16	18'-9"	15'-7"	13'-2"	16'-1" f	13'-7"	11'-5"	13'-11" f	12'-4"	10'-2"
				24	16'-1" f	13'-7"	11'-5"	13'-2" f	11'-11"	9'-8"	11'-5" f	10'-8"	8'-7"
	TRAKLOC 20EQ (24mil) 362TLE125-24	0.0250	57	12	22'-6"	17'-10"	15'-7"	19'-8"	15'-7"	13'-7"	17'-10"	14'-2"	12'-5"
				16	20'-5"	16'-3"	14'-2"	17'-10"	14'-2"	12'-5"	16'-3"	12'-10"	11'-1"
				24	17'-10"	14'-2"	12'-5"	15'-7"	12'-5"	10'-7"	14'-2"	11'-1"	9'-5"
	TRAKLOC 30mil 362TLE125-30	0.0312	33	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"
	TRAKLOC 33mil 362TLE125-33	0.0346	33	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"
4	TRAKLOC 25 (18mil) 400TLE125-18	0.0188	33	12	21'-1"	18'-3"	15'-4"	18'-5"	15'-11"	13'-5"	16'-8"	14'-6"	12'-2"
				16	19'-1"	16'-7"	13'-11"	16'-8"	14'-6"	12'-2"	14'-8" f	13'-2"	10'-10"
				24	16'-8"	14'-6"	12'-2"	13'-10" f	12'-8"	10'-3"	12'-0" f	11'-5"	9'-1"
	TRAKLOC 20EQ (24mil) 400TLE125-24	0.0250	57	12	24'-9"	19'-8"	17'-2"	21'-8"	17'-2"	15'-0"	19'-8"	15'-7"	13'-8"
				16	22'-6"	17'-10"	15'-7"	19'-8"	15'-7"	13'-8"	17'-8" f	14'-2"	12'-5"
				24	19'-8"	15'-7"	13'-8"	16'-8" f	13'-8"	11'-11"	14'-5" f	12'-5"	10'-6"
	TRAKLOC 30mil 400TLE125-30	0.0312	33	12	27'-3"	21'-7"	18'-10"	23'-9"	18'-10"	16'-6"	21'-7"	17'-2"	15'-0"
				16	24'-9"	19'-8"	17'-2"	21'-7"	17'-2"	15'-0"	19'-8"	15'-7"	13'-7"
				24	21'-7"	17'-2"	15'-0"	18'-10"	15'-0"	13'-1"	17'-2"	13'-7"	11'-9"
	TRAKLOC 33mil 400TLE125-33	0.0346	33	12	27'-1"	21'-6"	18'-10"	23'-8"	18'-10"	16'-5"	21'-6"	17'-1"	14'-11"
				16	24'-8"	19'-7"	17'-1"	21'-6"	17'-1"	14'-11"	19'-7"	15'-6"	13'-7"
				24	21'-6"	17'-1"	14'-11"	18'-10"	14'-11"	13'-0"	17'-1"	13'-7"	11'-9"
6	TRAKLOC 25 (18mil) 600TLE125-18	0.0188	33	12	–	22'-7"	20'-7"	–	19'-8" f	17'-11"	–	17'-1" f	16'-4"
				16	–	20'-8"	18'-8"	–	17'-1" f	16'-4"	–	14'-9" f	14'-9" f
				24	–	17'-1" f	16'-3"	–	13'-11" f	13'-11" f	–	12'-1" f	12'-1" f
	TRAKLOC 20EQ (24mil) 600TLE125-24	0.0250	57	12	28'-9" f	25'-11"	21'-8"	23'-6" f	22'-8"	19'-1"	20'-4" f	20'-4" f	17'-5"
				16	24'-11" f	23'-6"	19'-10"	20'-4" f	20'-4" f	17'-5"	17'-7" f	17'-7" f	15'-11"
				24	20'-4" f	20'-4" f	17'-5"	16'-7" f	16'-7" f	15'-4"	14'-4" f	14'-4" f	13'-11"
	TRAKLOC 30mil 600TLE125-30	0.0312	33	12	33'-3"	27'-0"	23'-11"	27'-6" f	23'-11"	21'-1"	23'-10" f	21'-10"	19'-3"
				16	29'-2" f	24'-9"	21'-10"	23'-10" f	21'-10"	19'-3"	20'-8" f	20'-0"	17'-7"
				24	23'-10" f	21'-10"	19'-3"	19'-6" f	19'-3"	16'-11"	16'-10" f	16'-10" f	–
	TRAKLOC 33mil 600TLE125-33	0.0346	33	12	33'-3"	27'-0"	23'-11"	27'-6" f	23'-11"	21'-1"	23'-10" f	21'-10"	19'-3"
				16	29'-2" f	24'-9"	21'-10"	23'-10" f	21'-10"	19'-3"	20'-8" f	20'-0"	17'-7"
				24	23'-10" f	21'-10"	19'-3"	19'-6" f	19'-3"	16'-11"	16'-10" f	16'-10" f	–

NOTES

1 Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2012.
2 Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were observed.
3 In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was not used.
4 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.
5 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 Drywall screws spaced as listed below:
- Screws spaced a maximum of 12" on-center to framing members.
- Screws spaced 16" on-center to the top and bottom track.
6 No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
7 Stud end bearing must be a minimum of 1".
8 TRAKLOC Elevator Studs should be at least minimum 12" overlap.
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.



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

TRAKLOC® NON-COMPOSITE LIMITING HEIGHTS
FULLY BRACED

TRAKLOC Fixed Length Studs (TLF)

Width (in)	Stud Member (TLF)	Design thickness (in)	h/t	Yield strength (ksi)	Spacing (in)	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
2-1/2	TRAKLOC 25 (18mil) 250TLF125-18	0.0188	125	33	12	13'-1"	11'-0"	9'-8"	10'-8"	10'-8"	9'-6"	9'-3"	9'-3"	8'-7"
					16	11'-4"	10'-0"	8'-9"	9'-3"	9'-3"	8'-7"	8'-0"	8'-0"	7'-10"
					24	9'-3"	8'-9"	7'-8"	7'-7" e	7'-7" e	7'-6" e	6'-7" e	6'-7" e	6'-7" e
	TRAKLOC 20EQ (24mil) 250TLF125-24	0.0250	93	57	12	15'-0"	11'-11"	10'-5"	14'-9"	11'-8"	10'-3"	13'-4"	10'-8"	9'-3"
					16	13'-7"	10'-10"	9'-5"	13'-4"	10'-8"	9'-3"	11'-7"	9'-8"	8'-5"
					24	11'-11"	9'-5"	8'-3"	10'-11"	9'-3"	8'-1"	9'-5"	8'-5"	7'-4"
	TRAKLOC 30mil 250TLF125-30	0.0312	74	33	12	16'-5"	13'-1"	11'-5"	14'-10"	12'-10"	11'-3"	12'-10"	11'-8"	10'-2"
					16	14'-11"	11'-10"	10'-4"	12'-10"	11'-8"	10'-2"	11'-1"	10'-7"	9'-3"
					24	12'-10"	10'-4"	9'-1"	10'-6"	10'-2"	8'-11"	9'-1"	9'-1"	8'-1"
	TRAKLOC 33mil 250TLF125-33	0.0346	67	33	12	17'-0"	13'-6"	11'-9"	15'-10"	13'-3"	11'-7"	13'-9"	12'-1"	10'-6"
					16	15'-5"	12'-3"	10'-8"	13'-9"	12'-1"	10'-6"	11'-11"	10'-11"	9'-7"
					24	13'-6"	10'-8"	9'-4"	11'-2"	10'-6"	9'-2"	9'-8"	9'-7"	8'-4"
3-5/8	TRAKLOC 25 (18mil) 362TLF125-18	0.0188	185	33	12	15'-6"	14'-9"	12'-10"	12'-8"	12'-8"	12'-8"	10'-11" e	10'-11" e	10'-11" e
					16	13'-5"	13'-4"	11'-8"	10'-11" e	10'-11" e	10'-11" e	9'-6" e	9'-6" e	9'-6" e
					24	10'-11" e	10'-11" e	10'-2"	8'-11" e	8'-11" e	8'-11" e	7'-9" e	7'-9" e	7'-9" e
	TRAKLOC 20EQ (24mil) 362TLF125-24	0.0250	138	57	12	20'-0"	15'-11"	13'-11"	18'-2"	15'-8"	13'-8"	15'-9"	14'-3"	12'-5"
					16	18'-2"	14'-5"	12'-7"	15'-9"	14'-3"	12'-5"	13'-7"	12'-11"	11'-3"
					24	15'-9"	12'-7"	11'-0"	12'-10"	12'-5"	10'-10"	11'-1"	11'-1"	9'-10"
	TRAKLOC 30mil 362TLF125-30	0.0312	110	33	12	21'-8"	17'-5"	15'-2"	17'-9"	17'-1"	14'-11"	15'-4"	15'-4"	13'-7"
					16	18'-10"	15'-10"	13'-10"	15'-4"	15'-4"	13'-7"	13'-3"	13'-3"	12'-4"
					24	15'-4"	13'-10"	12'-1"	12'-6"	12'-6"	11'-10"	10'-10"	10'-10"	10'-9"
	TRAKLOC 33mil 362TLF125-33	0.0346	99	33	12	22'-8"	18'-0"	15'-8"	19'-2"	17'-8"	15'-5"	16'-7"	16'-1"	14'-0"
					16	20'-3"	16'-4"	14'-3"	16'-7"	16'-1"	14'-0"	14'-4"	14'-4"	12'-9"
					24	16'-7"	14'-3"	12'-5"	13'-6"	13'-6"	12'-3"	11'-9"	11'-9"	11'-2"
4	TRAKLOC 25 (18mil) 400TLF125-18	0.0188	204	33	12	16'-4"	15'-11"	13'-11"	13'-4"	13'-4"	13'-4"	11'-6" e	11'-6" e	11'-6" e
					16	14'-1"	14'-1"	12'-8"	11'-6" e	11'-6" e	11'-6" e	10'-0" e	10'-0" e	10'-0" e
					24	11'-6" e	11'-6" e	11'-0" e	9'-5" e	9'-5" e	9'-5" e	8'-2" e	8'-2" e	8'-2" e
	TRAKLOC 20EQ (24mil) 400TLF125-24	0.0250	153	57	12	21'-8"	17'-2"	15'-0"	19'-1"	16'-11"	14'-9"	16'-7"	15'-5"	13'-5"
					16	19'-8"	15'-8"	13'-8"	16'-7"	15'-5"	13'-5"	14'-4"	14'-0"	12'-2"
					24	16'-7"	13'-8"	11'-11"	13'-6"	13'-5"	11'-9"	11'-9"	11'-9"	10'-8"
	TRAKLOC 30mil 400TLF125-30	0.0312	122	33	12	22'-11"	18'-9"	16'-5"	18'-8"	18'-6"	16'-2"	16'-2"	16'-2"	14'-8"
					16	19'-10"	17'-1"	14'-11"	16'-2"	16'-2"	14'-8"	14'-0"	14'-0"	13'-4"
					24	16'-2"	14'-11"	13'-0"	13'-3"	13'-3"	12'-10"	11'-5"	11'-5"	11'-5"
	TRAKLOC 33mil 400TLF125-33	0.0346	110	33	12	24'-5"	19'-5"	16'-11"	20'-2"	19'-1"	16'-8"	17'-6"	17'-4"	15'-2"
					16	21'-5"	17'-8"	15'-5"	17'-6"	17'-4"	15'-2"	15'-2"	15'-2"	13'-9"
					24	17'-6"	15'-5"	13'-5"	14'-3"	14'-3"	13'-3"	12'-4"	12'-4"	12'-0"
6	TRAKLOC 20EQ (24mil) 600TLF125-24[1]	0.0250	233	57	12	29'-0"	23'-0"	20'-1"	24'-1"	22'-7"	19'-9"	20'-10"	20'-7"	17'-11"
					16	25'-6"	20'-11"	18'-3"	20'-10"	20'-7"	17'-11"	18'-1"	18'-1"	16'-4"
					24	20'-10"	18'-3"	15'-11"	17'-0"	17'-0"	15'-8"	14'-9" e	14'-9" e	14'-3"
	TRAKLOC 30mil 600TLF125-30	0.0312	187	33	12	29'-5"	25'-8"	22'-5"	24'-0"	24'-0"	22'-1"	20'-10"	20'-10"	20'-1"
					16	25'-6"	23'-4"	20'-5"	20'-10"	20'-10"	20'-1"	18'-0"	18'-0"	18'-0"
					24	20'-10"	20'-5"	17'-10"	17'-0"	17'-0"	17'-0"	14'-9" e	14'-9" e	14'-9" e
	TRAKLOC 33mil 600TLF125-33	0.0346	168	33	12	32'-8"	26'-7"	23'-3"	26'-8"	26'-2"	22'-11"	23'-1"	23'-1"	20'-9"
					16	28'-3"	24'-2"	21'-2"	23'-1"	23'-1"	20'-9"	20'-0"	20'-0"	18'-11"
					24	23'-1"	21'-2"	18'-5"	18'-10"	18'-10"	18'-2"	16'-4" e	16'-4" e	16'-4" e

NOTES

1 Heights are based on AISI S100-07 w/S2-10 Supplement, and AISI S100-12 Specification using steel properties alone.

2 Above listed Non-Composite Limiting Heights is applicable when the unbraced length is less than or equal to (Lu) found in the section properties.

3 " e " web stiffeners required at ends.

4 [1] Web-Height to thickness (h/t) ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

The technical content of this literature is effective 8/1/17 and supersedes all previous information.

Pub. No. CD-TRAKLOC 8/17

TRAKLOC® NON-COMPOSITE LIMITING HEIGHTS
48" O.C. BRACING

Width (in)	Stud Member (TLF)	Design thickness (in)	h/t	Yield strength (ksi)	Spacing (in)	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
2-1/2	TRAKLOC 25 (18mil) 250TLF125-18	0.0188	125	33	12	13'-1"	11'-0"	9'-8"	10'-8"	10'-8"	9'-6"	9'-3"	9'-3"	8'-7"
					16	11'-4"	10'-0"	8'-9"	9'-3"	9'-3"	8'-7"	8'-0"	8'-0"	7'-10"
					24	9'-3"	8'-9"	7'-8"	7'-7" e	7'-7" e	7'-6" e	6'-7" e	6'-7" e	6'-7" e
	TRAKLOC 20EQ (24mil) 250TLF125-24	0.0250	93	57	12	15'-0"	11'-11"	10'-5"	14'-9"	11'-8"	10'-3"	13'-4"	10'-8"	9'-3"
					16	13'-7"	10'-10"	9'-5"	13'-4"	10'-8"	9'-3"	11'-7"	9'-8"	8'-5"
					24	11'-11"	9'-5"	8'-3"	10'-11"	9'-3"	8'-1"	9'-5"	8'-5"	7'-4"
	TRAKLOC 30mil 250TLF125-30	0.0312	74	33	12	16'-5"	13'-1"	11'-5"	14'-10"	12'-10"	11'-3"	12'-10"	11'-8"	10'-2"
					16	14'-11"	11'-10"	10'-4"	12'-10"	11'-8"	10'-2"	11'-1"	10'-7"	9'-3"
					24	12'-10"	10'-4"	9'-1"	10'-6"	10'-2"	8'-11"	9'-1"	9'-1"	8'-1"
	TRAKLOC 33mil 250TLF125-33	0.0346	67	33	12	17'-0"	13'-6"	11'-9"	15'-10"	13'-3"	11'-7"	13'-9"	12'-1"	10'-6"
					16	15'-5"	12'-3"	10'-8"	13'-9"	12'-1"	10'-6"	11'-11"	10'-11"	9'-7"
					24	13'-6"	10'-8"	9'-4"	11'-2"	10'-6"	9'-2"	9'-8"	9'-7"	8'-4"
3-5/8	TRAKLOC 25 (18mil) 362TLF125-18	0.0188	185	33	12	14'-3"	14'-3"	12'-10"	11'-7"	11'-7"	11'-7"	10'-1"	10'-1"	10'-1"
					16	12'-4"	12'-4"	11'-8"	10'-1"	10'-1"	10'-1"	8'-9" e	8'-9" e	8'-9" e
					24	10'-1"	10'-1"	10'-1"	8'-3" e	8'-3" e	8'-3" e	7'-1" e	7'-1" e	7'-1" e
	TRAKLOC 20EQ (24mil) 362TLF125-24	0.0250	138	57	12	17'-11"	15'-11"	13'-11"	14'-8"	14'-8"	13'-8"	12'-8"	12'-8"	12'-5"
					16	15'-7"	14'-5"	12'-7"	12'-8"	12'-8"	12'-5"	11'-0"	11'-0"	11'-0"
					24	12'-8"	12'-7"	11'-0"	10'-4"	10'-4"	10'-4"	9'-0"	9'-0"	9'-0"
	TRAKLOC 30mil 362TLF125-30	0.0312	110	33	12	19'-11"	17'-5"	15'-2"	16'-3"	16'-3"	14'-11"	14'-1"	14'-1"	13'-7"
					16	17'-3"	15'-10"	13'-10"	14'-1"	14'-1"	13'-7"	12'-3"	12'-3"	12'-3"
					24	14'-1"	13'-10"	12'-1"	11'-6"	11'-6"	11'-6"	10'-0"	10'-0"	10'-0"
	TRAKLOC 33mil 362TLF125-33	0.0346	99	33	12	21'-6"	18'-0"	15'-8"	17'-7"	17'-7"	15'-5"	15'-3"	15'-3"	14'-0"
					16	18'-8"	16'-4"	14'-3"	15'-3"	15'-3"	14'-0"	13'-2"	13'-2"	12'-9"
					24	15'-3"	14'-3"	12'-5"	12'-5"	12'-5"	12'-3"	10'-9"	10'-9"	10'-9"
4	TRAKLOC 25 (18mil) 400TLF125-18	0.0188	204	33	12	15'-0"	15'-0"	13'-11"	12'-3"	12'-3"	12'-3"	10'-7" e	10'-7" e	10'-7" e
					16	12'-11"	12'-11"	12'-8"	10'-7" e	10'-7" e	10'-7" e	9'-2" e	9'-2" e	9'-2" e
					24	10'-7" e	10'-7" e	10'-7" e	8'-8" e	8'-8" e	8'-8" e	7'-6" e	7'-6" e	7'-6" e
	TRAKLOC 20EQ (24mil) 400TLF125-24	0.0250	153	57	12	18'-10"	17'-2"	15'-0"	15'-4"	15'-4"	14'-9"	13'-4"	13'-4"	13'-4"
					16	16'-4"	15'-8"	13'-8"	13'-4"	13'-4"	13'-4"	11'-6"	11'-6"	11'-6"
					24	13'-4"	13'-4"	11'-11"	10'-10"	10'-10"	10'-10"	9'-5"	9'-5"	9'-5"
	TRAKLOC 30mil 400TLF125-30	0.0312	122	33	12	21'-0"	18'-9"	16'-5"	17'-2"	17'-2"	16'-2"	14'-10"	14'-10"	14'-8"
					16	18'-2"	17'-1"	14'-11"	14'-10"	14'-10"	14'-8"	12'-10"	12'-10"	12'-10"
					24	14'-10"	14'-10"	13'-0"	12'-1"	12'-1"	12'-1"	10'-6"	10'-6"	10'-6"
	TRAKLOC 33mil 400TLF125-33	0.0346	110	33	12	22'-8"	19'-5"	16'-11"	18'-6"	18'-6"	16'-8"	16'-0"	16'-0"	15'-2"
					16	19'-8"	17'-8"	15'-5"	16'-0"	16'-0"	15'-2"	13'-11"	13'-11"	13'-9"
					24	16'-0"	15'-5"	13'-5"	13'-1"	13'-1"	13'-1"	11'-4"	11'-4"	11'-4"
6	TRAKLOC 20EQ (24mil) 600TLF125-24[1]	0.0250	233	57	12	24'-2"	23'-0"	20'-1"	19'-9"	19'-9"	19'-9"	17'-1"	17'-1"	17'-1"
					16	20'-11"	20'-11"	18'-3"	17'-1"	17'-1"	17'-1"	14'-10"	14'-10"	14'-10"
					24	17'-1"	17'-1"	15'-11"	13'-11"	13'-11"	13'-11"	12'-1"	12'-1"	12'-1"
	TRAKLOC 30mil 600TLF125-30	0.0312	187	33	12	27'-7"	25'-8"	22'-5"	22'-7"	22'-7"	22'-1"	19'-6"	19'-6"	19'-6"
					16	23'-11"	23'-4"	20'-5"	19'-6"	19'-6"	19'-6"	16'-11"	16'-11"	16'-11"
					24	19'-6"	19'-6"	17'-10"	15'-11"	15'-11"	15'-11"	13'-10" e	13'-10" e	13'-10" e
	TRAKLOC 33mil 600TLF125-33	0.0346	168	33	12	29'-11"	26'-7"	23'-3"	24'-5"	24'-5"	22'-11"	21'-2"	21'-2"	20'-9"
					16	25'-11"	24'-2"	21'-2"	21'-2"	21'-2"	20'-9"	18'-4"	18'-4"	18'-4"
					24	21'-2"	21'-2"	18'-5"	17'-3"	17'-3"	17'-3"	14'-11"	14'-11"	14'-11"

NOTES

1 Heights are based on AISI S100-07 w/S2-10 Supplement, and AISI S100-12 Specification using steel properties alone.

2 Above listed Non-Composite Limiting Heights is applicable when the unbraced length is equal to 48" o.c.

3 " e " web stiffeners required at ends.

4 [1] Web-Height to thickness (h/t) ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

CODE APPROVALS AND PERFORMANCE STANDARDS

ClarkDietrich products meet or exceed these applicable performance standards.

Code Approvals

2012 International Building Code (IBC)

2010 California Building Code (CBC)

AISI "North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S-100-2007 with 2010 supplement"

ASTM American Society for Testing and Materials

Product specifications

ASTM C645	Non-structural steel framing members
ASTM E119	Std. Test Method Fire Tests Building Construction & Materials
ASTM E1966	Std. Test Method Fire-Resistive Joint Systems

Material specifications

ASTM A1003 (NS33, ST33L, ST33H, ST50L, ST50H)

ASTM A653	Zinc-coated hot-dip process
ASTM A653/B69	Veneer and plaster accessories

Protective coating standards

ASTM C645	Non-structural steel framing members
ASTM A653	Zinc-coated hot-dip process

Intertek Warnock Hersey Design Listings - Fire-Rated Head-of-Wall

CD/NSMF 60-01	**CD/NSMF 60-04**	**CD/NSMF 120-03**
CD/NSMF 60-02	**CD/NSMF 120-01**	**CD/NSMF 120-04**
CD/NSMF 60-03	**CD/NSMF 120-02**	

Additional code approvals

ICC ESR-1464

ClarkDietrich Building Systems is a proud member of the Steel Framing Industry Association (SFIA). Check the updated list of Certified Production Facilities at Architectural Testing's website at www.archtest.com.

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