

**TRAKLOC® Non-Composite Limiting Heights**  
 FULLY BRACED

## TRAKLOC Fixed Length Studs (TLF)

Width (in)	Stud Member (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) 250TLF125-18	0.0188	33	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
	TRAKLOC 20EQ (24mil) 250TLF125-24	0.0250	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	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	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	33	12	15'-6" e	14'-9"	12'-10"	12'-8" e	12'-8" e	12'-8" e	10'-11" e	10'-11" e	10'-11" e
				16	13'-5" e	13'-4" e	11'-8" e	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" e	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	57	12	20'-0"	15'-11"	13'-11"	18'-2"	15'-8"	15'-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" e	11'-1" e	9'-10"
	TRAKLOC 30mil 362TLF125-30	0.0312	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	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	33	12	15'-6"	15'-2"	13'-3"	12'-8" e	12'-8" e	12'-8" e	10'-11" e	10'-11" e	10'-11" e
				16	13'-5" e	13'-5" e	12'-1" e	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'-6" e	8'-11" e	8'-11" e	8'-11" e	7'-9" e	7'-9" e	7'-9" e
	TRAKLOC 20EQ (24mil) 400TLF125-24	0.0250	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	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	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 25 (18mil) 600TLF125-18	0.0188	33	12	19'-2" e	19'-2" e	18'-3" e	15'-7" e	15'-7" e	15'-7" e	13'-6" e	13'-6" e	13'-6" e
				16	16'-7" e	16'-7" e	16'-7" e	13'-6" e	13'-6" e	13'-6" e	11'-9" e	11'-9" e	11'-9" e
				24	13'-6" e	13'-6" e	13'-6" e	11'-1" e	11'-1" e	11'-1" e	9'-7" e	9'-7" e	9'-7" e
	TRAKLOC 20EQ (24mil) 600TLF125-24	0.0250	57	12	27'-9"	23'-0"	20'-1"	22'-8"	22'-7"	19'-9"	19'-8" e	19'-8" e	17'-11" e
				16	24'-1"	20'-11"	18'-3"	19'-8" e	19'-8" e	17'-11" e	17'-0" e	17'-0" e	16'-4" e
				24	19'-8" e	18'-3" e	15'-11"	16'-1" e	16'-1" e	15'-8" e	13'-11" e	13'-11" e	13'-11" e
	TRAKLOC 30mil 600TLF125-30	0.0312	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" e	18'-0" e	18'-0" e
				24	20'-10"	20'-5"	17'-10"	17'-0" e	17'-0" e	17'-0" e	14'-9" e	14'-9" e	14'-9" e
	TRAKLOC 33mil 600TLF125-33	0.0346	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" e	20'-0" e	18'-11" e
				24	23'-1"	21'-2"	18'-5"	18'-10" e	18'-10" e	18'-2" e	16'-4" e	16'-4" e	16'-4" e

For SI Units: 1 inch = 25.4 mm, 1 ft = 0.3048m, 1 psf = 47.88 Pa

**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.

1 Web height-to-thickness ratio exceeds 200. Webs must have bearing stiffeners. See AISI S100 Section B1.2.

2 Web height-to-thickness ratio exceeds 260 but less than 300. Webs must have bearing and intermediate stiffeners. See AISI S100 Section B1.2.

e Web stiffeners are required at the stud/track connection.