

TRAKLOC® Non-Composite Limiting Heights
48" O.C. BRACING

TRAKLOC Deflection Studs (TLD)

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	12'-7"	11'-0"	9'-8"	10'-3" e	10'-3" e	9'-6"	8'-11" e	8'-11" e	8'-7" e
				16	10'-11"	10'-0"	8'-9"	8'-11" e	8'-11" e	8'-7" e	7'-8" e	7'-8" e	7'-8" e
				24	8'-11" e	8'-9" e	7'-8" e	7'-3" e	7'-3" e	7'-3" e	6'-3" e	6'-3" e	6'-3" e
	TRAKLOC 20EQ (24mil) 250TLD125-24	0.0250	57	12	15'-0"	11'-11"	10'-5"	13'-2"	11'-8"	10'-3"	11'-5"	10'-8"	9'-3"
				16	13'-7"	10'-10"	9'-5"	11'-5"	10'-8"	9'-3"	9'-11"	9'-8"	8'-5"
				24	11'-5"	9'-5"	8'-3"	9'-4"	9'-3"	8'-1"	8'-1"	8'-1"	7'-4"
	TRAKLOC 30mil 250TLD125-30	0.0312	33	12	16'-5"	13'-1"	11'-5"	13'-9"	12'-10"	11'-3"	11'-11"	11'-8"	10'-2"
				16	14'-7"	11'-10"	10'-4"	11'-11"	11'-8"	10'-2"	10'-4"	10'-4"	9'-3"
				24	11'-11"	10'-4"	9'-1"	9'-9"	9'-9"	8'-11"	8'-5"	8'-5"	8'-1"
	TRAKLOC 33mil 250TLD125-33	0.0346	33	12	17'-0"	13'-6"	11'-9"	14'-8"	13'-3"	11'-7"	12'-9"	12'-1"	10'-6"
				16	15'-5"	12'-3"	10'-8"	12'-9"	12'-1"	10'-6"	11'-0"	10'-11"	9'-7"
				24	12'-9"	10'-8"	9'-4"	10'-5"	10'-5"	9'-2"	9'-0"	9'-0"	8'-4"
3-5/8	TRAKLOC 25 (18mil) 362TLD125-18	0.0188	33	12	14'-3"	14'-3"	12'-10"	11'-7" e	11'-7" e	11'-7" e	10'-1" e	10'-1" e	10'-1" e
				16	12'-4" e	12'-4" e	11'-8" e	10'-1" e	10'-1" e	10'-1" e	8'-9" e	8'-9" e	8'-9" e
				24	10'-1" e	10'-1" e	10'-1" e	8'-3" e	8'-3" e	8'-3" e	7'-1" e	7'-1" e	7'-1" e
	TRAKLOC 20EQ (24mil) 362TLD125-24	0.0250	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 362TLD125-30	0.0312	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 362TLD125-33	0.0346	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) 400TLD125-18	0.0188	33	12	15'-0"	15'-0"	13'-3"	12'-3" e	12'-3" e	12'-3" e	10'-7" e	10'-7" e	10'-7" e
				16	12'-11" e	12'-11" e	12'-1" e	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'-6" e	8'-8" e	8'-8" e	8'-8" e	7'-6" e	7'-6" e	7'-6" e
	TRAKLOC 20EQ (24mil) 400TLD125-24	0.0250	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 400TLD125-30	0.0312	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 400TLD125-33	0.0346	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 25 (18mil) 600TLD125-18 ²	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) 600TLD125-24 ¹	0.0250	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" e	14'-10" e	14'-10" e
				24	17'-1"	17'-1"	15'-11"	13'-11" e	13'-11" e	13'-11" e	12'-1" e	12'-1" e	12'-1" e
	TRAKLOC 30mil 600TLD125-30	0.0312	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" e	15'-11" e	15'-11" e	13'-10" e	13'-10" e	13'-10" e
	TRAKLOC 33mil 600TLD125-33	0.0346	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" e	18'-4" e	18'-4" e
				24	21'-2"	21'-2"	18'-5"	17'-3" e	17'-3" e	17'-3" e	14'-11" e	14'-11" e	14'-11" 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.
- Above listed Non-Composite Limiting Heights are applicable when the unbraced length is less than or equal to (Lu) as listed in section properties.
- 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.
- 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.