TRAKLOC® NON-COMPOSITE LIMITING HEIGHTS
FULLY BRACED

TRAKLOC Adjustable Studs (TLA)
TRAKLOC Deflection Studs (TLD)

Width (in)	Stud Member (TLA/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) 250TLA/TLD125-18	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) 250TLA/TLD125-24	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 250TLA/TLD125-30	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 250TLA/TLD125-33	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) 362TLA/TLD125-18	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) 362TLA/TLD125-24	0.0250	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" e	11'-1" e	9'-10"
	TRAKLOC 30mil 362TLA/TLD125-30	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 362TLA/TLD125-33	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) 400TLA/TLD125-18	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) 400TLA/TLD125-24	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 400TLA/TLD125-30	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 400TLA/TLD125-33	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) 600TLA/TLD125-18[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) 600TLA/TLD125-24[1]	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 600TLA/TLD125-30	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 600TLA/TLD125-33	0.0346	33	12	32' 8"	26' 7"	23'-3"	26'-8"	26'-2"	22'-11"	23'-1" e	23'-1" e	20'-9"
				16	28' 3"	24' 2"	21'-2"	23'-1" e	23'-1" e	20'-9"	20'-0" e	20'-0" e	18'-11" e
				24	23' 1" e	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.
- 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.