

TRAKLOC® 20EQ (24MIL) - COMPOSITE LIMITING HEIGHTS

| TRAKLOC Elevator Studs (TLE) | | | | | | | | | | | | | 5/8" Type X Gypsum Board | | |
|------------------------------|--------------|-----------------------|----------------------|------------------|-----------|----------|---------|----------|----------|---------|----------|----------|--------------------------|--|--|
| Width | Stud Member | Design Thickness (in) | Yield Strength (ksi) | 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 | | |
| 2-1/2" | 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" | | |
| 3-5/8" | 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" | | |
| 4" | 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" | | |
| 6" | 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" | | |

Notes:

- The limiting heights provided in the above tables are based on the Elevator Extension Overlap not having any screws in the splice.
 - Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2012.
 - The composite limiting heights provided in the tables are applicable for either one or two layers of 5/8" gypsum board.
 - The gypsum board must be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C840-2013
 - Attach gypsum board to studs using minimum No. 6 Type S drywall screws spaced as listed below:
 - Screws spaced a minimum of 16" on-center to framing members spaced at 16" or 12" on-center.
 - Screws spaced a minimum of 12" on-center to framing members spaced at 24" on-center.
 - Gypsum board must be attached to each top and bottom track flange using minimum No. 6 drywall screws at maximum 16" on-center.
 - TRAKLOC end insert piece shall have a minimum 4" overlap.
 - No fasteners are required for attaching the stud to the track except as detailed in paragraph 5.3.21 of ASTM C754-2015
 - Stud end bearing must be a minimum of 1 inch.
- f Adjacent to the height value indicates that flexural stress controls the allowable wall height.

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

