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**DIVISION: 09—FINISHES****Section: 09110—Non-Load Bearing Wall Framing****REPORT HOLDER:**

**TRAKLOC INTERNATIONAL, LLC**  
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**EVALUATION SUBJECT:****TRAKLOC NON-LOAD BEARING/NON-COMPOSITE WALL FRAMING SYSTEM****1.0 EVALUATION SCOPE****Compliance with the following code:**

2003 *International Building Code*® (IBC)

**Properties evaluated:**

Structural

**2.0 USES**

The Trakloc Non-load Bearing/Non-composite Wall Framing System is used as an interior nonload-bearing wall framing system.

**3.0 DESCRIPTION****3.1 General:**

The nonload-bearing steel studs, stud extensions and tracks are cold-formed from steel complying with Section 2209.1 of the IBC.

The studs are available in five depths and three thicknesses as noted in Table 1.

The studs and tracks have a patented snap-lock system that permits stud installation to the top and bottom tracks without the use of fasteners. The studs are also available in a telescoping configuration, with one end of the studs capable of expanding a maximum  $\frac{1}{8}$  of the maximum allowable wall height, with a minimum extension overlap between the stud extension and the stud as noted in Figure 1. The studs have a maximum web hole size of 4 inches by  $1\frac{1}{2}$  inches (102 mm by 38 mm). The minimum distance from end of stud to near edge of web hole is 10 inches (250 mm), and the holes are spaced a minimum of 24 inches (610 mm) on center.

**3.2 Materials:**

All steel complies with ASTM A 653, SS Grade 33, with a minimum yield stress of 33,000 psi (228 Mpa). Galvanized corrosion protection complies with ASTM A 645 with a minimum G40 galvanization.

**4.0 DESIGN AND INSTALLATION****4.1 Design:**

Table 4 specifies the allowable interior nonload-bearing fixed and telescoping stud heights, based on the structural properties of the steel studs noted in Table 2.

The design for lateral support of the top and bottom tracks shall consider the structural properties noted in Table 3.

**4.2 Installation:**

The ends of the steel studs and stud extensions shall be fixed in place to the top and bottom steel tracks by means of the self-locking mechanism. The top and bottom of the steel stud or stud extension shall be inserted at an offset angle into the steel track at 90 degrees to the track at the correct spacing, and rotated until the stud or stud extension is wedged into place in the track. Anchorage of the top and bottom steel tracks to the supporting structure shall be by an approved fastening system.

**5.0 CONDITIONS OF USE**

The Trakloc Non-load Bearing/Non-composite Wall Framing System described in this report complies with, or is a suitable alternative to what is specified in, the code shown in Section 1.0 of this report, subject to the following conditions:

- 5.1** Studs and tracks are manufactured, identified and installed in accordance with this report and the manufacturer's instructions.
- 5.2** Allowable heights, spacings and loadings shall not exceed the values noted in Table 4 of this report.
- 5.3** The uncoated minimum steel thickness of the cold-formed steel studs and tracks, as delivered to the jobsite, shall be at least the minimum design base-metal thickness as specified in Table 1 of this report.
- 5.4** Calculations and drawings demonstrating compliance with this report shall be submitted to the building official. The calculations and drawings shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- 5.5** The Trakloc Non-load Bearing/Non-composite Wall Framing System, described in this report, has not been evaluated for use as a fire-resistance-rated assembly.
- 5.6** The studs and tracks are manufactured at Trakloc Mid-America, Middletown, Ohio.

**6.0 EVIDENCE SUBMITTED**

- 6.1** Descriptive details and structural calculations in accordance with the ICC-ES Acceptance Criteria for Steel Studs, Joists and Tracks (AC46), dated October 2004.

6.2 Flexural tests for Trakloc's telescoping stud, to determine the degree of engagement necessary for structural continuity and non-interruption of the in-service elastic behavior of the telescoping stud.

6.3 A quality control manual.

## 7.0 IDENTIFICATION

Each stud, stud extension and track shall have markings, spaced at a maximum of 48 inches on center, indicating the

manufacturer's name (Trakloc International), the ICC-ES evaluation report number (ESR-1464), uncoated base-material thickness (expressed in decimal thickness), and a product tracking code. Each stud, stud extension and track shall also be marked as "nonload-bearing."

TABLE 1—STUD AND TRACK SIZES

| MEMBER DESIGNATION | DEPTH (inches)                | WIDTH (inches)                | BASE-METAL THICKNESS (inch) |
|--------------------|-------------------------------|-------------------------------|-----------------------------|
| <b>Studs</b>       |                               |                               |                             |
| 212TFS-019-114     | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0179                      |
| 212TFS-024-114     | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0237                      |
| 212TFS-030-114     | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0296                      |
| 312TFS-019-114     | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0179                      |
| 312TFS-024-114     | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0237                      |
| 312TFS-030-114     | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0296                      |
| 358TFS-019-114     | 3 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0179                      |
| 358TFS-024-114     | 3 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0237                      |
| 358TFS-030-114     | 3 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0296                      |
| 512TFS-030-114     | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>4</sub> | 0.0296                      |
| 600TFS-030-114     | 6                             | 1 <sup>1</sup> / <sub>4</sub> | 0.0296                      |
| <b>Tracks</b>      |                               |                               |                             |
| 212TTS-019-138     | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0179                      |
| 212TTS-024-138     | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0237                      |
| 212TTS-030-138     | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0296                      |
| 312TTS-019-138     | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0179                      |
| 312TTS-024-138     | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0237                      |
| 312TTS-030-138     | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0296                      |
| 358TTS-019-138     | 3 <sup>5</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0179                      |
| 358TTS-024-138     | 3 <sup>5</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0237                      |
| 358TTS-030-138     | 3 <sup>5</sup> / <sub>8</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0296                      |
| 512TTS-030-138     | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>3</sup> / <sub>8</sub> | 0.0296                      |
| 600TTS-030-138     | 6                             | 1 <sup>3</sup> / <sub>8</sub> | 0.0296                      |

For SI: 1 inch = 25.4 mm.

TABLE 2—TRAKLOC STUD TFS STRUCTURAL PROPERTIES

| Member Size (inches) or Designation | Min Base Metal Thickness (inches) | Design Thickness (inches) | Weight (lbs./ft.) | Gross Section Properties |                          |            | Effective Section Properties |            |                          | Allowable Moment $M_a$ (in. - lbs.) | Torsional Section Properties |                        |            |                                    |                          |
|-------------------------------------|-----------------------------------|---------------------------|-------------------|--------------------------|--------------------------|------------|------------------------------|------------|--------------------------|-------------------------------------|------------------------------|------------------------|------------|------------------------------------|--------------------------|
|                                     |                                   |                           |                   | Area (in <sup>2</sup> )  | $I_x$ (in <sup>4</sup> ) | $r_x$ (in) | $I_y$ (in <sup>4</sup> )     | $r_y$ (in) | $I_x$ (in <sup>4</sup> ) |                                     | $S_x$ (in <sup>3</sup> )     | $A$ (in <sup>2</sup> ) | $X_o$ (in) | $J \times 1000$ (in <sup>4</sup> ) | $C_w$ (in <sup>6</sup> ) |
| 212TFS-019-114                      | 0.0179                            | 0.0188                    | 0.3476            | 0.1021                   | 0.1053                   | 1.0155     | 0.0224                       | 0.4680     | 0.1043                   | 0.0648                              | 1270.9                       | 0.0120                 | 0.0303     | 1.5141                             | 0.5454                   |
| 212TFS-024-114                      | 0.0237                            | 0.0249                    | 0.4579            | 0.1346                   | 0.1379                   | 1.0125     | 0.0291                       | 0.4651     | 0.1379                   | 0.0934                              | 1769.16                      | 0.0278                 | 0.0392     | 1.5070                             | 0.5467                   |
| 212TFS-030-114                      | 0.0296                            | 0.0312                    | 0.5704            | 0.1676                   | 0.1708                   | 1.0094     | 0.0358                       | 0.4620     | 0.1708                   | 0.1294                              | 2389.92                      | 0.0544                 | 0.0480     | 1.4996                             | 0.5480                   |
| 312TFS-019-114                      | 0.0179                            | 0.0188                    | 0.4116            | 0.1209                   | 0.2285                   | 1.3744     | 0.0250                       | 0.4543     | 0.2279                   | 0.0654                              | 1830.48                      | 0.0142                 | 0.0620     | 1.7061                             | 0.7199                   |
| 312TFS-024-114                      | 0.0237                            | 0.0249                    | 0.5426            | 0.1595                   | 0.2997                   | 1.3711     | 0.0325                       | 0.4513     | 0.2997                   | 0.0948                              | 2573.52                      | 0.0330                 | 0.0803     | 1.6994                             | 0.7215                   |
| 312TFS-030-114                      | 0.0296                            | 0.0312                    | 0.6766            | 0.1988                   | 0.3719                   | 1.3676     | 0.0399                       | 0.4481     | 0.3719                   | 0.1322                              | 3521.4                       | 0.0645                 | 0.0985     | 1.6924                             | 0.7231                   |
| 358TFS-019-114                      | 0.0179                            | 0.0188                    | 0.4196            | 0.1233                   | 0.2479                   | 1.4180     | 0.0252                       | 0.4523     | 0.2475                   | 0.0655                              | 1899.4                       | 0.0145                 | 0.0669     | 1.7344                             | 0.7365                   |
| 358TFS-024-114                      | 0.0237                            | 0.0249                    | 0.5532            | 0.1626                   | 0.3253                   | 1.4146     | 0.0328                       | 0.4493     | 0.3253                   | 0.0948                              | 2672.2                       | 0.0336                 | 0.0868     | 1.7277                             | 0.7380                   |
| 358TFS-030-114                      | 0.0296                            | 0.0312                    | 0.6899            | 0.2027                   | 0.4037                   | 1.4111     | 0.0404                       | 0.4462     | 0.4037                   | 0.1324                              | 3659.8                       | 0.0658                 | 0.1063     | 1.7209                             | 0.7396                   |
| 512TFS-030-114                      | 0.0296                            | 0.0312                    | 0.8889            | 0.2612                   | 1.0880                   | 2.0407     | 0.0452                       | 0.4162     | 1.0632                   | 0.1346                              | 6525.36                      | 0.0848                 | 0.2707     | 2.2063                             | 0.8911                   |
| 600TFS-030-114                      | 0.0296                            | 0.0312                    | 0.942             | 0.2768                   | 1.3437                   | 2.2031     | 0.0462                       | 0.4085     | 1.2986                   | 0.3633                              | 7178.9                       | 0.0898                 | 0.3299     | 2.3466                             | 0.9118                   |

For **St**: 1 inch = 25.4 mm, 1 lb/ft = 1.488 kg/m, 1 in-lb = 11.30 N-m.

TABLE 3—TRAKLOC TOP AND BOTTOM TRACK STRUCTURAL PROPERTIES

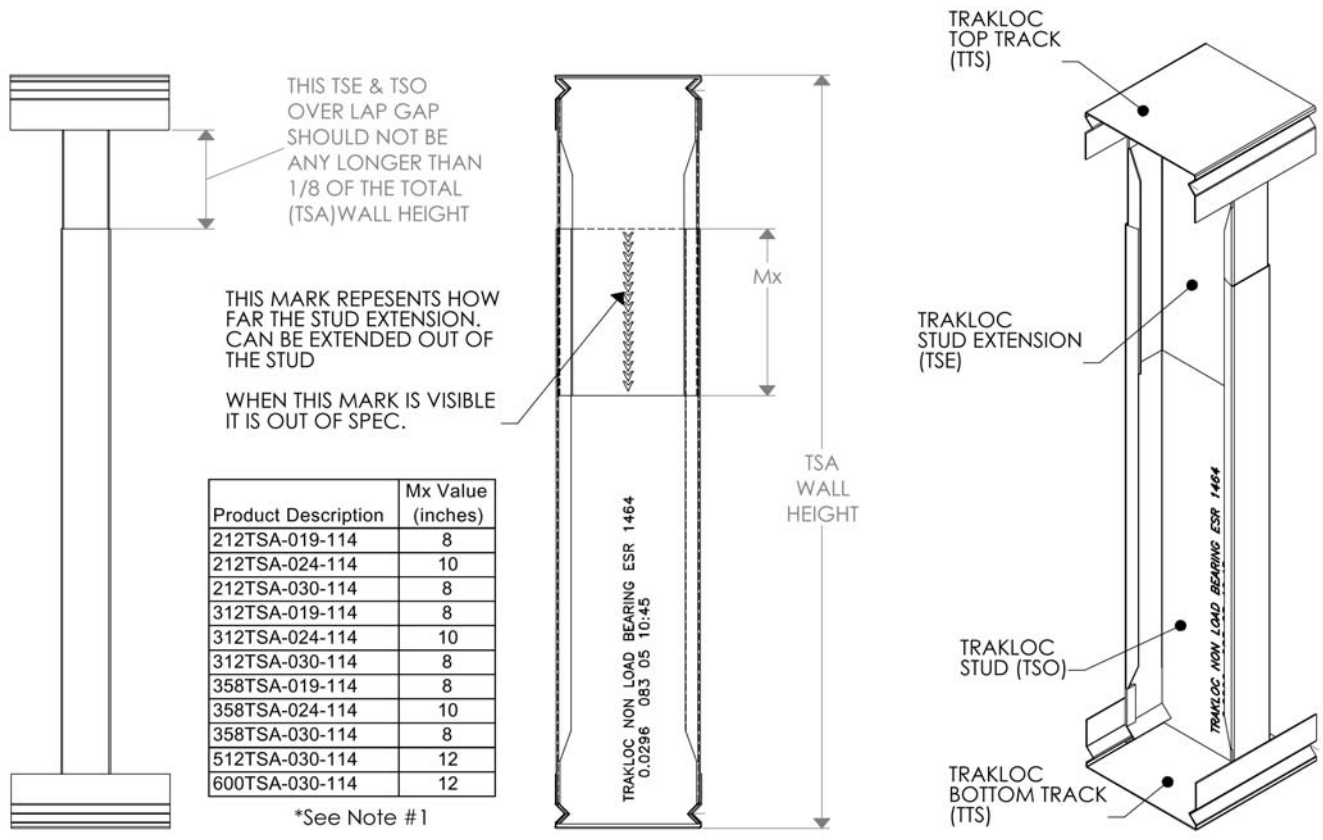
| Member Size (inches) or Designation | Min Base Metal Thickness (inches) | Design Thickness (inches) | Weight (lbs./ft.) | Gross Section Properties |                          |            | Effective Section Properties           |                       |                       |  |                       |                       | Torsional Section Properties       |                          |            |            |                          |                          |                          |        |        |        |
|-------------------------------------|-----------------------------------|---------------------------|-------------------|--------------------------|--------------------------|------------|--|-----------------------|-----------------------|--|-----------------------|-----------------------|------------------------------------|--------------------------|------------|------------|--------------------------|--------------------------|--------------------------|--------|--------|--------|
|                                     |                                   |                           |                   | Area (in <sup>2</sup> )  | $I_x$ (in <sup>4</sup> ) | $r_x$ (in) | Positive Moment                        |                       |                       | Negative Moment                        |                       |                       | $J \times 10^5$ (in <sup>4</sup> ) | $C_w$ (in <sup>6</sup> ) | $R_o$ (in) |            |                          |                          |                          |        |        |        |
|                                     |                                   |                           |                   |                          |                          |            | Allowable Moment $M_{ax}$ (in. - lbs.) | $M_{ay}$ (in. - lbs.) | $M_{bx}$ (in. - lbs.) | Allowable Moment $M_{ax}$ (in. - lbs.) | $M_{ay}$ (in. - lbs.) | $M_{bx}$ (in. - lbs.) |                                    |                          |            | $Y_o$ (in) | $S_y$ (in <sup>3</sup> ) | $S_x$ (in <sup>3</sup> ) | $S_y$ (in <sup>3</sup> ) |        |        |        |
| 212TTS-019-138                      | 0.0179                            | 0.0188                    | 0.3627            | 0.1067                   | 0.1099                   | 1.1114     | 0.0220                                 | 0.0099                | 0.0089                | 0.0996                                 | 0.0733                | 175.10                | 1448.80                            | 0.0161                   | 0.0179     | 0.0996     | 0.0733                   | 352.40                   | -0.8683                  | 1.2838 | 0.0186 | 1.4088 |
| 212TTS-024-138                      | 0.0237                            | 0.0249                    | 0.4571            | 0.1345                   | 0.2050                   | 0.4309     | 0.1410                                 | 0.2039                | 0.0143                | 0.1304                                 | 0.0976                | 259.40                | 1928.00                            | 0.0220                   | 0.0234     | 0.1304     | 0.0976                   | 462.30                   | -0.8656                  | 2.5810 | 0.0231 | 1.4083 |
| 212TTS-030-138                      | 0.0296                            | 0.0312                    | 0.5700            | 0.1676                   | 0.0310                   | 0.4301     | 0.1765                                 | 1.0262                | 0.0207                | 0.194                                  | 0.1259                | 383.40                | 2488.00                            | 0.0292                   | 0.0301     | 0.1669     | 0.1259                   | 595.30                   | -0.8622                  | 5.0290 | 0.0288 | 1.4077 |
| 312TTS-019-138                      | 0.0179                            | 0.0188                    | 0.4273            | 0.1257                   | 0.0220                   | 0.4185     | 0.2409                                 | 1.3844                | 0.0109                | 0.0094                                 | 0.2085                | 186.00                | 2120.60                            | 0.0164                   | 0.0180     | 0.2085     | 0.1073                   | 355.80                   | -0.7771                  | 1.5120 | 0.0421 | 1.6418 |
| 312TTS-024-138                      | 0.0237                            | 0.0249                    | 0.5387            | 0.1585                   | 0.0277                   | 0.4177     | 0.3043                                 | 1.3858                | 0.0158                | 0.0139                                 | 0.2838                | 275.00                | 3035.60                            | 0.0225                   | 0.0237     | 0.2838     | 0.1536                   | 468.50                   | -0.7744                  | 3.0420 | 0.0531 | 1.6415 |
| 312TTS-030-138                      | 0.0296                            | 0.0312                    | 0.6720            | 0.1976                   | 0.0343                   | 0.4168     | 0.3805                                 | 1.3875                | 0.0229                | 0.0205                                 | 0.3618                | 405.50                | 3898.20                            | 0.0303                   | 0.0307     | 0.3618     | 0.1973                   | 606.00                   | -0.7711                  | 5.9290 | 0.0663 | 1.6412 |
| 358TTS-019-138                      | 0.0179                            | 0.0188                    | 0.4354            | 0.1281                   | 0.0222                   | 0.4167     | 0.2613                                 | 1.4284                | 0.0110                | 0.0095                                 | 0.2246                | 187.10                | 2194.10                            | 0.0165                   | 0.0180     | 0.2246     | 0.1110                   | 356.10                   | -0.7671                  | 1.5410 | 0.0459 | 1.6740 |
| 358TTS-024-138                      | 0.0237                            | 0.0249                    | 0.5489            | 0.1615                   | 0.0279                   | 0.4159     | 0.3300                                 | 1.4297                | 0.0160                | 0.0140                                 | 0.3081                | 276.50                | 3185.50                            | 0.0226                   | 0.0237     | 0.3081     | 0.1612                   | 469.00                   | -0.7644                  | 3.1000 | 0.0579 | 1.6738 |
| 358TTS-030-138                      | 0.0296                            | 0.0312                    | 0.6847            | 0.2014                   | 0.0347                   | 0.4149     | 0.4126                                 | 1.4314                | 0.0231                | 0.0206                                 | 0.3925                | 407.70                | 4088.80                            | 0.0303                   | 0.0307     | 0.3925     | 0.2069                   | 609.90                   | -0.7612                  | 6.0420 | 0.0723 | 1.6734 |
| 512TTS-030-138                      | 0.0296                            | 0.0312                    | 0.8756            | 0.2575                   | 0.0386                   | 0.3874     | 1.0979                                 | 2.0648                | 0.0256                | 0.0218                                 | 1.0189                | 430.90                | 6902.90                            | 0.0312                   | 0.0312     | 1.0189     | 0.3493                   | 615.40                   | -0.6393                  | 7.7260 | 0.1958 | 2.1959 |
| 600TTS-030-138                      | 0.0296                            | 0.0312                    | 0.9270            | 0.2726                   | 0.0394                   | 0.3803     | 1.3555                                 | 2.2297                | 0.0261                | 0.0220                                 | 1.2260                | 435.20                | 7462.00                            | 0.0314                   | 0.0312     | 1.2260     | 0.3776                   | 616.80                   | -0.6132                  | 8.1790 | 0.2450 | 2.3436 |

For **St**: 1 inch = 25.4 mm, 1 lb/ft = 1.488 kg/m, 1 in-lb = 11.30 N-m.

**TABLE 4—TRAKLOC STUD TFS MAXIMUM ALLOWABLE SPANS**

| Stud Member    | Spacing (in) on center | 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   |
|                |                        | 212TFS-019-114 | 12      | 13'-0"  | 11'-1"  | 9'-8"   | 10'-7"  | 9'-8"   | 8'-5"   | 8'-10"  |
|                | 16                     | 11'-3"         | 10'-1"  | 8'-9"   | 8'-10"  | 8'-9"   | 7'-8"   | 6'-7"   | 6'-7"   | 6'-7"   |
|                | 24                     | 8'-10"         | 8'-9"   | 7'-8"   | 5'-10"  | 5'-10"  | 5'-10"  | 4'-5"   | 4'-5"   | 4'-5"   |
| 212TFS-024-114 | 12                     | 15'-4"         | 12'-2"  | 10'-7"  | 12'-6"  | 10'-7"  | 9'-3"   | 10'-10" | 9'-8"   | 8'-5"   |
|                | 16                     | 13'-3"         | 11'-0"  | 9'-8"   | 10'-10" | 9'-8"   | 8'-5"   | 9'-4"   | 8'-9"   | 7'-8"   |
|                | 24                     | 10'-10"        | 9'-8"   | 8'-5"   | 8'-10"  | 8'-5"   | 7'-4"   | 7'-7"   | 7'-7"   | 6'-8"   |
| 212TFS-030-114 | 12                     | 16'-5"         | 13'-0"  | 11'-5"  | 14'-4"  | 11'-5"  | 9'-11"  | 12'-7"  | 10'-4"  | 9'-0"   |
|                | 16                     | 14'-11"        | 11'-10" | 10'-4"  | 12'-7"  | 10'-4"  | 8'-9"   | 10'-11" | 9'-5"   | 8'-2"   |
|                | 24                     | 12'-7"         | 10'-4"  | 9'-0"   | 10'-3"  | 9'-0"   | 7'-11"  | 8'-11"  | 8'-2"   | 7'-2"   |
| 312TFS-019-114 | 12                     | 15'-7"         | 14'-4"  | 12'-6"  | 12'-0"  | 12'-0"  | 10'-11" | 9'-0"   | 9'-0"   | 9'-0"   |
|                | 16                     | 13'-6"         | 13'-1"  | 11'-5"  | 9'-0"   | 9'-0"   | 9'-0"   | 6'-9"   | 6'-9"   | 6'-9"   |
|                | 24                     | 9'-0"          | 9'-0"   | 9'-0"   | 6'-0"   | 6'-0"   | 6'-0"   | 4'-6"   | 4'-6"   | 4'-6"   |
| 312TFS-024-114 | 12                     | 18'-6"         | 15'-9"  | 13'-9"  | 15'-1"  | 13'-9"  | 12'-0"  | 13'-1"  | 12'-6"  | 10'-11" |
|                | 16                     | 16'-0"         | 14'-4"  | 12'-6"  | 13'-1"  | 12'-6"  | 10'-11" | 11'-4"  | 11'-4"  | 9'-11"  |
|                | 24                     | 13'-1"         | 12'-6"  | 10'-11" | 10'-5"  | 10'-5"  | 9'-6"   | 7'-10"  | 7'-10"  | 7'-10"  |
| 312TFS-030-114 | 12                     | 21'-4"         | 16'-11" | 14'-9"  | 17'-8"  | 14'-9"  | 12'-11" | 15'-3"  | 13'-5"  | 11'-9"  |
|                | 16                     | 18'-9"         | 15'-4"  | 13'-5"  | 15'-3"  | 13'-5"  | 11'-9"  | 13'-3"  | 12'-2"  | 10'-8"  |
|                | 24                     | 15'-3"         | 13'-5"  | 11'-9"  | 12'-6"  | 11'-9"  | 10'-3"  | 10'-10" | 10'-8"  | 9'-3"   |
| 358TFS-019-114 | 12                     | 15'-10"        | 14'-9"  | 12'-11" | 12'-0"  | 12'-0"  | 11'-3"  | 9'-0"   | 9'-0"   | 9'-0"   |
|                | 16                     | 13'-6"         | 13'-5"  | 11'-9"  | 9'-0"   | 9'-0"   | 9'-0"   | 6'-9"   | 6'-9"   | 6'-9"   |
|                | 24                     | 9'-0"          | 9'-0"   | 9'-0"   | 6'-0"   | 6'-0"   | 6'-0"   | 4'-6"   | 4'-6"   | 4'-6"   |
| 358TFS-024-114 | 12                     | 18'-10"        | 16'-2"  | 14'-2"  | 15'-4"  | 14'-2"  | 12'-4"  | 13'-4"  | 12'-10" | 11'-2"  |
|                | 16                     | 16'-4"         | 14'-8"  | 12'-10" | 13'-4"  | 12'-10" | 11'-2"  | 11'-6"  | 11'-6"  | 10'-2"  |
|                | 24                     | 13'-4"         | 12'-10" | 11'-2"  | 10'-5"  | 10'-5"  | 9'-9"   | 7'-10"  | 7'-10"  | 7'-10"  |
| 358TFS-030-114 | 12                     | 21'-11"        | 17'-5"  | 15'-2"  | 18'-0"  | 15'-2"  | 13'-3"  | 15'-7"  | 13'-9"  | 12'-1"  |
|                | 16                     | 19'-1"         | 15'-10" | 13'-9"  | 15'-7"  | 13'-9"  | 12'-1"  | 13'-6"  | 12'-6"  | 10'-11" |
|                | 24                     | 15'-7"         | 13'-9"  | 12'-1"  | 12'-9"  | 12'-1"  | 10'-6"  | 11'-0"  | 10'-11" | 9'-7"   |
| 512TFS-030-114 | 12                     | 29'-5"         | 24'-0"  | 21'-0"  | 24'-1"  | 21'-0"  | 18'-4"  | 20'-10" | 19'-1"  | 16'-8"  |
|                | 16                     | 25'-6"         | 21'-10" | 19'-1"  | 20'-10" | 19'-1"  | 16'-8"  | 17'-11" | 17'-4"  | 15'-1"  |
|                | 24                     | 20'-10"        | 19'-1"  | 16'-8"  | 15'-11" | 15'-11" | 14'-6"  | 11'-11" | 11'-11" | 11'-11" |
| 600TFS-030-114 | 12                     | 30'-11"        | 25'-8"  | 22'-5"  | 25'-3"  | 22'-5"  | 19'-7"  | 21'-10" | 20'-5"  | 17'-10" |
|                | 16                     | 26'-9"         | 23'-4"  | 20'-5"  | 21'-10" | 20'-5"  | 17'-10" | 17'-10" | 17'-10" | 16'-2"  |
|                | 24                     | 21'-10"        | 20'-5"  | 17'-10" | 15'-10" | 15'-10" | 15'-6"  | 11'-10" | 11'-10" | 11'-10" |

For SI: 1 inch = 25.4 mm.



\* Note #1  
 An engineering analysis conducted by Trakloc International, LLC shall be required when the overlap distance Mx is less than that noted in the table for the specified product description.

FIGURE 1—TRAKLOC TELESCOPING NONLOAD-BEARING STUD