June 15, 2026

**Re: Simpson Strong-Tie® Strong-Drive® TF and TB Wood-to-Steel Screws (TFP1475, TFG1475, TBP1460, TBG1460) as Alternatives to 5/16" Generic Trailer Deck Screw**

To Whom It May Concern:

Simpson Strong-Tie has evaluated a comparison of the Strong-Drive TFP1475 (#14-14x3″), TFG1475(#14-14x3″), TBP1460 (#14-14x2 3/8″), and TBG1460 (#14-14x2 3/8″) screws as an alternate to 5/16″-18x2½″ generic trailer deck screws for attaching wooden planks to steel trailer frames. Table 1 and Figure 1 provide the geometries and coatings of the four screws included in this comparison.

**Table 1 – Geometry and Material Properties of 5/16″ Generic and Strong-Drive TF and TB Screws**

| Screw | Dia. | Length (in.) | Threads Per Inch | Drive | Drill Point | Head Type | Finish | Format |
|---|---|---|---|---|---|---|---|---|
| **Generic 5/16″** | 5/16″ | 2½ | 18 | T40 | n/a – requires pre-drilling with 9/32″ bit | Flat | Black Phosphate | Hand-drive |
| **TFP1475** | #14 | 3 | 14 | T30 | #5 with wings | Flat with nibs | Black Phosphate | Collated for Quik Drive® |
| **TFG1475** | #14 | 3 | 14 | T30 | #5 with wings | Flat with nibs | N2000® Mechanically Galvanized | Collated for Quik Drive |
| **TBP1460** | #14 | 2 3/8 | 14 | T30 | #4 with wings | Flat with nibs | Black Phosphate | Collated for Quik Drive |
| **TBG1460** | #14 | 2 3/8 | 14 | T30 | #4 with wings | Flat with nibs | N2000 Mechanically Galvanized | Collated for Quik Drive |

Notes:
1. The TFP1475 and TFG1475 have a major thread diameter of 0.240″ and a grip length of 1.94″. The #5 drill point has wings for boring softwoods/hardwoods and penetrating through 1/4″ to 15/32″ thick steel substrate based on a minimum steel tensile strength of $F_u$ = 45 ksi.
2. The TBP1460 and TBG1460 have a major thread diameter of 0.240″ and a grip length of 1.65″. The #4 drill point has wings for boring softwoods/hardwoods and penetrating up to 5/16″ thick steel substrate based on a minimum steel tensile strength of $F_u$ = 45 ksi.
3. Black phosphate coating (TFP1475 and TBP1460) provides a minimum level of corrosion resistance intended for dry, low-corrosion applications.
4. N2000 coating (TFG1475 and TBG1460) is a mechanically applied proprietary zinc coating with a supplementary overcoat. In the ASTM B117 salt spray test at 1000 hours of exposure, fasteners with the N2000 coating exhibit average red rust less than 15%.

**Figure 1 – Strong-Drive TFP1475 Screw (left), TBP1460 screw (middle) and 5/16″ Generic Trailer Deck Screw (right)**

In order to compare connection capacities between the different types of screws, the uplift and shear connection capacities were determined based on testing and calculations using a 2x softwood side member and ¼″ thick steel main member. The results of this evaluation indicate the Simpson Strong-Tie® Strong-Drive® TFP1475, TFG1475, TBP1460, or TBG1460 screws may be used as a three-for-two substitution for the $^{5}/_{16}$″ generic trailer deck screws (i.e. three TFP1475, TFG1475, TBP1460, or TBG1460 screws may be substituted for every two $^{5}/_{16}$″ screws) when attaching 2x wooden planks to steel trailer frames. Refer to Table 2 and Figure 2 for connection geometry requirements.

The TFP1475, TFG1475, TBP1460, and TBG1460 screws do not require predrilling and provide faster installation than the generic $^{5}/_{16}$″ screws that require predrilling for softwood/hardwood species and steel members. These screws are available in collated strips that are compatible with Quik Drive tools whereas the generic $^{5}/_{16}$″ screws are only available in bulk.

**Table 2 – Connection Geometry for Strong-Drive Screws**

| Condition | Direction of Load to Grain | ID | Minimum Distance or Spacing (in.) | |
|---|---|---|---|---|
| | | | TFP1475 or TFG1475 | TBP1460 or TBG1460 |
| Edge Distance | Perpendicular | ① | 1 $^{1}/_{2}$ | 1 $^{1}/_{2}$ |
| | Parallel | ① | 1 $^{1}/_{2}$ | 1 $^{1}/_{2}$ |
| End Distance | Perpendicular | ② | 4 | 4 |
| | Parallel | ② | 4 | 4 |
| Spacing Between Fasteners in a Row | Perpendicular | ③ | 1 $^{3}/_{4}$ | 3 |
| | Parallel | ④ | 4 | 4 |
| Spacing Between Rows of Fasteners | Perpendicular | ⑤ | 2 $^{1}/_{2}$ | 4 |
| | Parallel | ⑥ | 1 $^{3}/_{4}$ | 1 $^{1}/_{2}$ |
| Spacing Between Staggered Rows | Perpendicular | ⑦ | $^{3}/_{4}$ | 1 $^{1}/_{2}$ |
| | Parallel | | | |

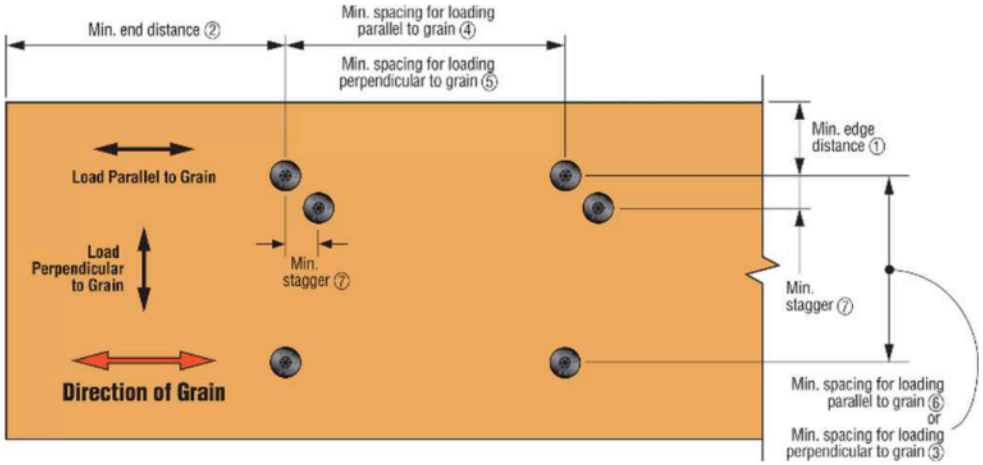


**Figure 2 –Wood-to-Steel Spacing Requirements**

The information in this letter is valid until **06/30/2027** when it will be re-evaluated by Simpson Strong-Tie. Please visit strongtie.com for additional pertinent information. If you have questions or need further assistance regarding this matter, please contact the Simpson Strong-Tie Engineering Department at 800.999.5099.

Sincerely,

**SIMPSON STRONG-TIE COMPANY INC.**