Heavy TSC3.00 or TSC4.00 Truss-To-Truss Connection (3 Ply Girder) Tube Webs

**3D View of TSC664 Clip Conn.**

- TSC664 Clip (Typ)
- (X) #10SDS
- 1" (25mm) maximum gap (Typ)
- 7-1/2" (191mm)
- 3-Ply TSC3.00 or TSC4.00 Girder truss

**3D View of TSHDC Clip Conn.**

- TSHDC2.04, TSHDC2.54 or TSHDC3.54 Each face (Typ)
- (X) #10SDS
- 1" (25mm) max (Typ)
- 7-1/2" (191mm)
- 3-Ply TSC3.00 or TSC4.00 Girder truss

**Section A-A**

- Supported truss vertical web must be tube web
- TSC3.00 or TSC4.00 Supported truss
- (X) #10SDS
- 1-1/2" (38mm)
- Girder vertical web (Tube or Z)

**Section B-B**

- Supported truss vertical web must be tube web
- TSC3.00 or TSC4.00 Supported truss
- (X) #10SDS
- 1-1/2" (38mm)
- Girder vertical web (Tube or Z)

**Typical Supported Truss to Girder Connection**

- Supported Truss
- TSHDC or TSCC
- Girder

**Allowable Reaction and Uplift (lbs (kN))**

<table>
<thead>
<tr>
<th>x^A</th>
<th>H = 24 in. (610mm) minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3000 (13.54)</td>
</tr>
<tr>
<td>6</td>
<td>4000 (17.79)</td>
</tr>
<tr>
<td>7</td>
<td>4700 (20.91)</td>
</tr>
</tbody>
</table>

A. The quantity "x" refers to the number of #10SDS (Self-Drilling Tapping Screws) that are required on each side of each clip into the web member.

B. R = Allowable Reaction, U = Allowable Uplift

**General Notes:**

1. The top and bottom chords of all trusses shall be properly connected to structural sheathing or purlins, designed by others.

2. Screw spacing, edge distance and end distance is 9/16" (14mm) minimum.

3. The supported truss must be designed utilizing a clip bearing type.

4. If supported truss web is a Z-web, refer to TS060C for connection.

5. Cold-Formed Steel Calculations are per the AISI 2016 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-16).

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Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any performance failure in a connection due to a deviation from this detail. Any variation from this detail shall be approved in advance by Alpine, a division of ITW Building Components Group, Inc.

**Standard Detail:**

TS060B

**Date:**

10/11/18

**TrusSteel Detail Category:**

Truss-To-Truss Connections