### Allowable Values

<table>
<thead>
<tr>
<th>Girder Web</th>
<th>Maximum Length of Girder Web (in)</th>
<th>Maximum Axial Force in Girder Web (lbs)</th>
<th>X</th>
<th>R (per supported truss, kN)</th>
<th>R = U (per supported truss, kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>33W.75x1.5</td>
<td>36 (914)</td>
<td>542 (2.41)</td>
<td>4</td>
<td>175 (0.78)</td>
<td>270 (1.20)</td>
</tr>
<tr>
<td>33W.75x2.25</td>
<td>39 (991)</td>
<td>850 (3.78)</td>
<td>4</td>
<td>250 (1.11)</td>
<td>430 (1.91)</td>
</tr>
</tbody>
</table>

A. The quantity "X" refers to the number of #10SDS required on each side of the girder web, as shown in the cut section view.
B. R = Supported truss vertical reaction, R_H = Supported truss horizontal reaction, and U = uplift.
C. R = R_H + R_U
U = U_H + U_U

### General Clip Information

Clip shape and dimensions are different for each girder web to supported truss web combination. Bend to fit web geometry using brake, or see Technical Bulletin 08-06.28 for a listing of specific dimensions for all possible web combinations.

### 45° Connection For Single Ply TSC2.75 Girder (Supported Trusses Have Horizontal and Vertical Reactions)

**General Notes:**
1. SDS = Self-Drilling Tapping Screw. #10SDS end distance is 9/16" (14mm) and edge distance is 9/32" (7mm). #10SDS shall be spaced a minimum distance of 1-1/8" (29mm) apart vertically and 9/16" (14mm) apart horizontally.
2. Girder must be analyzed with concentrated loads from supported trusses in line with center of correctly placed girder webs. "TSC2.75 Clip Pair Cut Section" gives correct girder web placement information.
3. Two clips must be used for one clip pair. Two clip pairs are required for connection as shown.
4. Supported truss must be analyzed with clip type bearings.
5. It is Clip Bend; Bend clip only once.
6. This connection is for two identical trusses with one truss on each face of the girder web.

---

**45° Connection For Single Ply TSC2.75 Girder (Supported Trusses Have Horizontal and Vertical Reactions)**

**Standard Detail:**
TS025B

**Date:**
10/11/18

**TrusSteel Detail Category:**
Truss-to-Truss Connection