

P1				
Screws Per Plate				
Chord Size / Gauge	4	6	8	10
33TSC4.00 – 20g	2336	3504	4672	5840
43TSC4.00 – 18g	3480	5220	6960	8700
54TSC4.00 – 16g	4896	7344	9792	12240
68TSC4.00 – 14g	6912	10368	13824	14340
97TSC4.00 – 12g	6912	10368	13824	14340

Weld Per Plate				
Top Plate / Gauge	(2) 1" welds	(3) 1" welds	(4) 1" welds	(5) 1" welds
16 Gauge	3288	4932	6576	8220
14 Gauge	4320	6480	8640	10800
12 Gauge	6472	9708	12944	14340

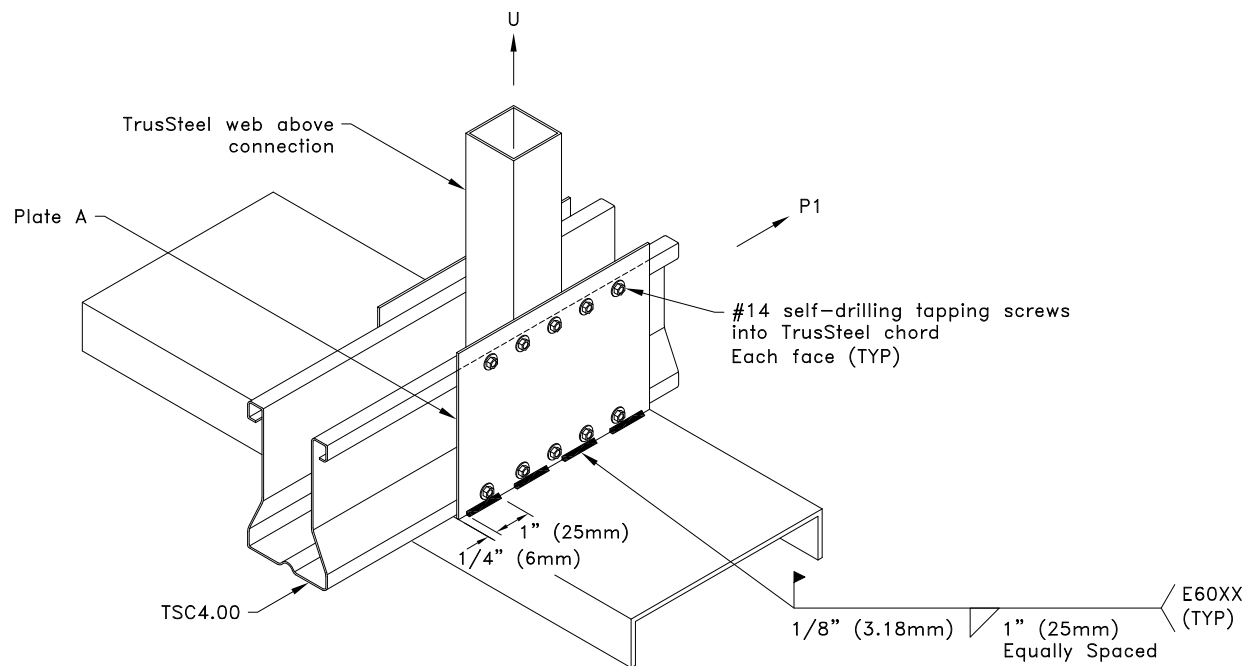
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Screws Per Plate				
Chord Size / Gauge	4	6	8	10
33TSC4.00 – 20g	2336	3504	4672	5840
43TSC4.00 – 18g	3480	5220	6960	8700
54TSC4.00 – 16g	4896	7344	9792	11425
68TSC4.00 – 14g	6912	10368	11425	11425
97TSC4.00 – 12g	6912	10368	11425	11425

Weld Per Plate				
Top Plate / Gauge	(2) 1" welds	(3) 1" welds	(4) 1" welds	(5) 1" welds
16 Gauge	4320	6480	8640	10800
14 Gauge	5460	8190	10920	11425
12 Gauge	6240	9360	11425	11425

#### Minimum Requirements:

1. Plate on each face of truss.
2. (4) Screws minimum each plate. (2) top and (2) bottom.
3. (2) 1" Welds minimum per plate, equally space welds.



#### General Notes:

1. Wall top plate shall be manufactured from Cold-Formed Steel (CFS) with minimum tensile strength of 45 KSI (310 Mpa) and minimum of 6" (152 mm).
2. Attachment of second plate on opposite face of chord is identical to what is detailed.
3. Connection of top plate to wall must be capable of transferring truss uplift load from wall top plate to wall.
4. The wall top plate is to be designed by the job engineer. The wall top plate must be designed to support the loads applied to it (downward, upward and lateral).
5. Lateral allowable loads (P1) shown are maximum values. If these loads are in combination with an uplift load, contact a TrusSteel engineer.
6. Refer to TrusSteel Technical Bulletin 98.10.05 titled "Repair of Galvanized Surfaces" to restore corrosion resistant properties of the connection after welding.
7. Cold-Formed Steel Calculations are per the 2010 addendum to the AISI 2007 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-07/S2-10).
8. Detail is allowed with TSC3.00 chords provided the TSC3.00 chord is the same gauge as the TSC4.00 chord in the chart.

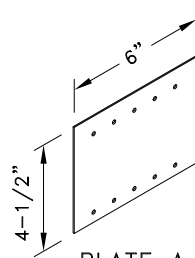


PLATE A

12g ASTM A653 SS Grade 33 G60  
Bare metal thickness = t = 0.0966"



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## Welded Truss Plate To Cold-Formed Steel

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.

#### Custom Detail:

TS-CD-TB-CF17-005

Date:

03/29/16

#### Custom Detail Category:

Truss-To-Bearing Connection