

( $\frac{3}{4}$ ") structural rated wood sheathing,  
or OSB, with, wall framing  
Designed by others

(4) #10 SDS through  $\frac{1}{2}$ " flat  
section of chord each clip,  
each face (TYP.)

Wall assembly to be  
designed by others

Structural steel with a  
minimum tensile strength  
of 58 ksi (400 MPa)  
Designed by others

Clip A each face

Blocking— 6" deep min,  
16ga ASTM A653 SS  
grade 33 G60. Place blocking  
between wall studs at truss  
connection. Designed by others

(4) #10SDS at bend, each  
face each clip. Fasteners  
must penetrate through  
plywood and blocking.  
(see general note 4).

(2) #10SDS through  
chord lip, each clip,  
each face (TYP.)

Clip B each face

(4) #10 SDS  
through  $\frac{1}{2}$ " flat section  
of chord each clip,  
each face (TYP.)

$R_h$

$R_v$

$2(\frac{7}{8}) \sqrt{2} @ 3" (TYP.)$

E70XX

Maximum Allowable Reactions  
in Combination

$R_v = 1190$  lbs  
 $R_h = 640$  lbs

Clip A may be trimmed  
as required to be  
flush with top of  
top chord

4"

2"

Varies

H = Plumb height  
of truss chord

Clip A

Clip B

16ga ASTM A653 SS Grade 33 G60  
Bare metal thickness,  $t = 0.0538"$

16ga ASTM A653 SS Grade 33 G60  
Bare metal thickness,  $t = 0.0538"$

General Notes:

1. SDS = Self-Drilling Tapping Screw
2. #10SDS spacing and end distance is  $\frac{5}{16}"$  minimum. Edge distance is  $\frac{5}{16}"$  unless specified otherwise.
3. Supported truss must be run with top and bottom chord supports.
4. #10 SDS from Clip A through plywood to blocking must have 3 exposed threads out back of blocking.
5. It is the responsibility of the building designer to verify that the structural support members are designed for all applicable loads including (but not limited to) the loads given on this detail.
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. Attachment of clips on opposite face of truss is identical to what is detailed.
8. Cold-Formed Steel Calculations are per the 2004 addendum to the "AISI 2001 North American Specification for the Design of Cold-Formed Steel Structural Members."

**TrusSteel**<sup>®</sup>  
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## Truss to Plywood and Structural Steel Support Connection

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 ITW Building Components Group, Inc.

Custom Detail:

TS-CD-TB-W3-001

Date:

10/30/09

Custom Detail:

Truss to Bearing