

Connection Detail A

Maximum Limits:

Pitch Range: 12/12 maximum
 R = 670 lbs (2.98 kN)
 U = 610 lbs (2.71 kN)

OR

Connection Detail B

Maximum Limits:

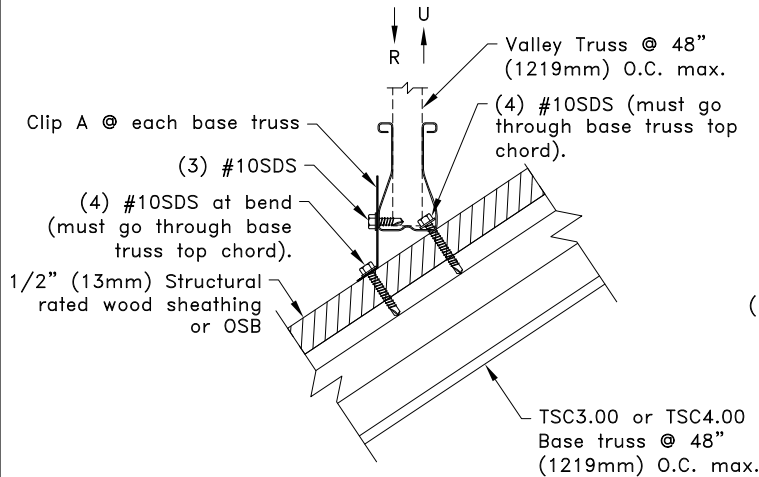
Pitch Range: 12/12 maximum
 R = 670 lbs (2.98 kN)
 U = 360 lbs (1.60 kN)

OR

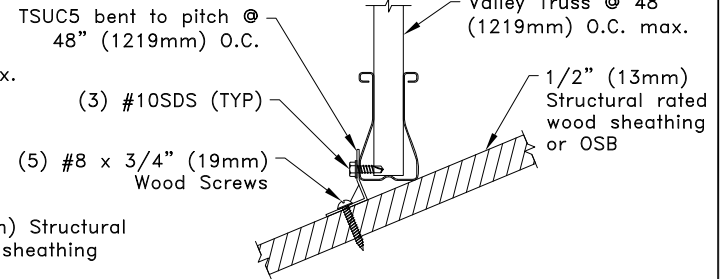
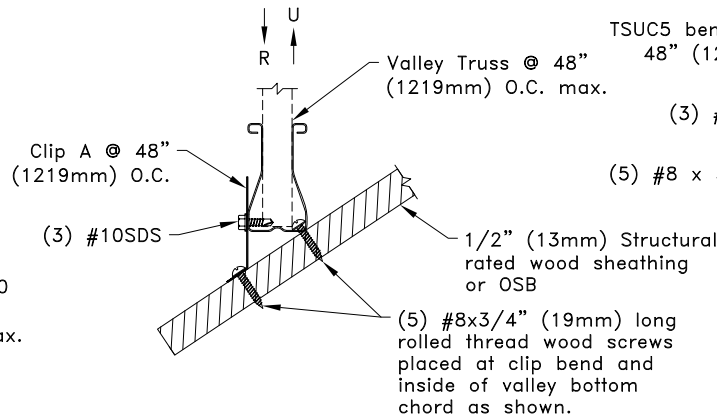
Connection Detail C

Maximum Limits:

Pitch: 5/12 maximum for TSC2.75 Valley
 R = 670 lbs (2.98 kN)
 U = 175 lbs (0.78 kN)
 Pitch: 3/12 max. for TSC3.00 or TSC4.00 Valley
 R = 800 lbs (3.56 kN)
 U = 175 lbs (0.78 kN)



3/16" (5mm) diameter holes must be predrilled in clip B and valley bottom chord before wood screws can be applied.

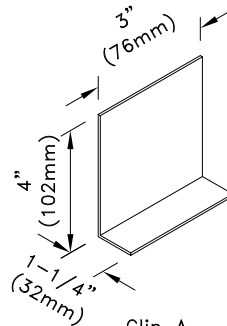
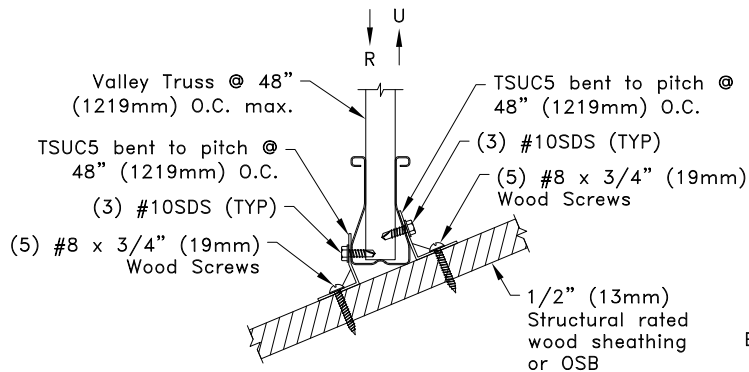


Connection Detail D

Maximum Limits:

Pitch Range: 9/12 maximum
 R_v = 750 lbs (3.34 kN)
 U = 360 lbs (1.60 kN)

OR



Clip A
 18ga ASTM A653 SS Grade 33 G60
 Bare Metal Thickness = 0.0428" (1.087mm)
 Bend clip to roof pitch

General Notes:

1. SDS = Self-Drilling Tapping Screw. #10SDS spacing, edge distance and end distance is 9/16" (14mm) minimum.
2. Refer to approved truss drawings for valley truss designs. Valley truss bottom chord panels not to exceed 4'0" (1219mm).
3. Wood screw values into wood are based on ANSI/AWC NDS-2015 with a 1.15 duration factor for gravity load, and a 1.60 duration factor for uplift load from wind or seismic.
4. R refers to vertical reaction and U refers to uplift.
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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TrusSteel Valley Truss Connections for Rated Wood Sheathing

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:

TS026B

Date:

10/11/18

TrusSteel Detail Category:

Valley Set