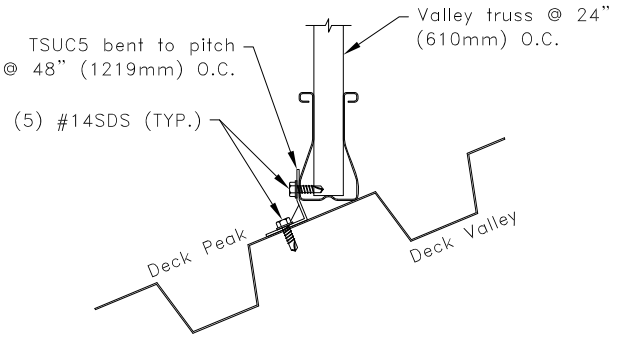
Connection Detail D

Maximum Limits:

Pitch:	5/12 max. for TSC2.75 Valley 3/12 max. for TSC4.00 Valley
Windspeed:	ASCE 7-05 – 130 MPH (58 m/s) ASCE 7-10 – 160 MPH (72 m/s)
Total TCL:	60 psf (2.87 kN/m^2)

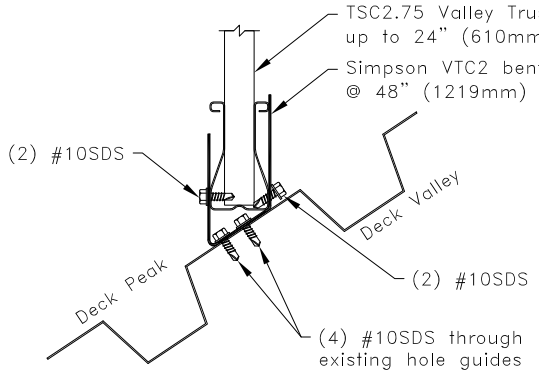


OR

Connection Detail E

Maximum Limits:

Pitch Range:	5/12 to 8/12
Windspeed:	ASCE 7-05 – 110 MPH (49 m/s) ASCE 7-10 – 140 MPH (63 m/s)
Total TCL:	60 psf (2.87 kN/m^2)

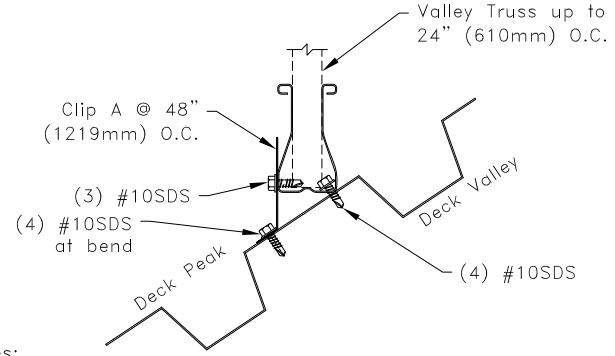


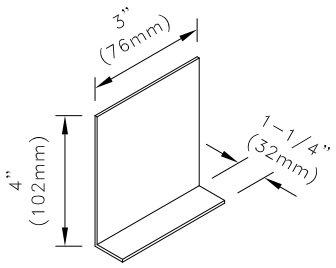
OR

Connection Detail F

Maximum Limits:

Pitch:	12/12 maximum
Windspeed:	ASCE 7-05 – 150 MPH (67 m/s) ASCE 7-10 – 190 MPH (85 m/s)
Total TCL:	60 psf 2.87 kN/m^2)

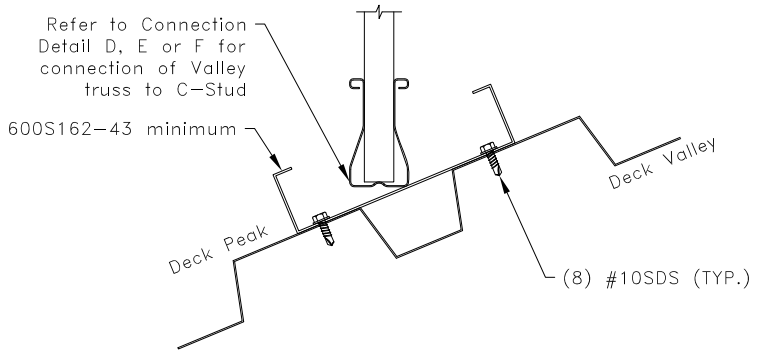




Clip A
18ga ASTM A653 SS Grade 33 G60
Bare Metal Thickness = 0.0428" (1.087mm)
Bend clip to roof pitch.

Connection of C-Stud to Span Deck Valley

If valley truss falls within deck valley, use 600S162-43 to span the distance as shown below.



General Notes:

1. SDS = Self-Drilling Tapping screw; TCL = Top Chord Load
2. #10SDS spacing, edge distance and end distance is 9/16" (14mm) minimum. #14SDS spacing, edge distance and end distance is 3/4" (19mm) minimum.
3. Steel deck must be ASTM A653 or A1008, Grade 33 minimum, with a bare metal thickness of 0.028" (0.711mm) minimum. The maximum width of the deck valley cannot exceed 4-1/2" (114mm).
4. In lieu of 600S162-43, a 6"x6" (152mmX152mm) 18g. ASTM A653 Grade 33 steel sheet (bare metal thickness = 0.0428" (1.087mm)) may be used.
5. Refer to approved truss drawings for valley truss designs. Valley truss bottom chord panels not to exceed 4'0" (1219mm).
6. Wind calculations are per ASCE 7-05 or ASCE 7-10 assuming the following:
   - CAT III & IV
   - EXP C
   - 30 ft (9144mm) mean roof height
   - Closed building
   - 5 psf (0.24kN/m^2) wind dead load
   - No speed up increase factor taken for topographic effects; K_{zt} = 1.0
7. Cold-Formed Steel Calculations are per the 2010 supplement to the AISI 2007 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-07/S2-10).

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TrusSteel Valley Truss Connection to Steel Deck

Standard Detail:
TS026A

Date:
07/16/12

TrusSteel Detail Category:
Valley Set