Connection Detail A Connection Detail B Maximum Limits: Maximum Limits: Pitch Range: 5/12 to 8/12 Pitch Range: 12/12 maximum Windspeed: ASCE 7-05 - 150 MPH (67 m/s) ASCE 7-10 - 190 MPH (85 m/s) ASCE 7-05 - 120 MPH (54 m/s)Windspeed: ΟR ASCE 7-10 - 150 MPH (67 m/s)60 psf (2.87 kN/m^2) 60 psf (2.87 kN/m^2) Total TCL: Total TCL: TSC2.75 Valley Truss Valley Truss up to up to 24" (610mm) O.C. 24" (610mm) O.C. (3) #10SDS into Simpson VTC2 bent Clip A to pitch. base truss (3) #10SDS (2) #10SDS (2) #10SDS (3) #10SDS at bend (4) #10SDS Base Truss @ 48" (1219mm) 0.C. max. Base Truss @ 48" (1219mm) O.C. max. 4" (102mm) Clip A 18aa ASTM A653 SS Grade 33 G60 Bare Partial Framing Plan Metal Thickness = 0.0428" (1.087mm) Valley trusses must be Bend clip to roof pitch. at 24" (610mm) O.C. Section A-A Valley Truss (Typ.) length

Base trusses @ 48'

(1219mm) O.C. Max

Connection Detail C Maximum Limits:

Pitch Range: 12/12 maximum

ASCE 7-05 - 150 MPH (67 m/s) ASCE 7-10 - 190 MPH (85 m/s) Windspeed:

60 psf (2.87 kN/m^2) Total TCL:

(1) ITWBCG Hardware Valley Truss up to HT2.5A at each base 24" (610mm) O.C. truss. Bend to fit (3) #10SDS (3) #10SDS Base Truss @ 48" (1219mm) 0.C. max.

General Notes:

- 1. SDS = Self-Drilling Tapping screw; TCL = Top Chord Load
- 2. Screw spacing, edge distance and end distance is 9/16" (14mm) minimum.
- 3. Refer to approved bracing design for required bracing material and connections.
- 4. Properly attached valley trusses may be used in lieu of purlins if the top chord of the supporting truss has been designed with purlins at O.C. spacing equal to the rake length between valley trusses as shown in the Section A-A.
- 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 (0.24 kN/m²) wind dead load
 - No speed up increase factor taken for topographic effects;
- 7. Cold-Formed Steel Calculations are per the 2010 supplement to the AISI Base Truss 2007 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-07/S2-10).

TrusSteel®

Α-

www.TrusSteel.com

Florida: 1950 Marley Drive / Haines City, FL 33844 / (800) 755-6001 Missouri: 13389 Lakefront Drive / Earth City, MO 63045 / (800) 326-4102

TrusSteel Valley Truss Connection to Base Truss

Rake

See Connection

each base truss

Details A. B. & C to

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.

Standard Detall: TS026

Date:

07/16/12

TrusSteel Detail Category:

Valley Set