Reynolds Building Systems, Inc. R14C CO Truss: 205 Arlington Drive JobName: BestBarn R14C Greenville, PA 16125 Designer: KDH Component Solutions™ 4/10/2014 9:39:24 AM Ph: 800-245-1577 Fax: 724-646-0772 Truss 1 of 1 Page: Version: 4.36 [Build 16] Span Pitch OHR CANTL CANTR PLYS Spacing 7-4-12 2-3-10 2-3-10 5.92/12 0-0-0 24 in 12-0-0 3-8-6 3-8-6 2-3-10 2-3-10 3-8-6 7-4-12 IN LIEU OF MACHINE PRESSED IN LIEU OF MACHINE PRESSED METAL TRUSS METAL TRUSS PLATES, ATTACH PLATES, ATTACH 12"H X 24"W (CUT TO FIT) 4x5 12"H X 24"W (CUT TO FIT) 7/16" OSB (APA RATED) GUSSET EACH FACE 7/16" OSB (APA RATED) GUSSET EACH FACE 12 5.92 12 5.92 IN LIEU OF MACHINE PRESSED METAL TRUSS PLATES, ATTACH 12"H X 24"W (CUT TO FIT) 7/16" OSB (APA RATED) GUSSET 3x4 -3 EACH FACE IN LIEU OF MACHINE PRESSED METAL TRUSS PLATES, CONNECT JOINTS 1, 2, & 3 USING OSB (APA RATED) GUSSETS AS SHOWN ABOVE. ATTACH GUSSETS TO BOTH FACES USING CONSTRUCTION ADHESIVE AND (2) ROWS OF 8d NAILS @ 3" O.C. THROUGHOUT OVERLAPPING CHORD MEMBERS. STAGGER ROWS FROM ONE FACE TO THE OTHER TO PREVENT LUMBER SPLITTING. 0-0-0 0-0-0 7-4-12 TYPICAL AT (2) BEARING 7-4-12 LOCATIONS (JOINTS 4 & 5): PROVIDE CONNECTION TO RESIST THE FOLLOWING Loading **CSI Summary** Deflection General Allowed (loc) LOADS AND FORCES: TCLL Bldg Code IRC 2012/ 0.71 (4-1) 0.84 (3-1) Ven TL: Ven LL: L/999 L/999 TC BC L/240 L/360 Gmd Snow (Pg): TPI 1-2007 VERTICAL REACTION: 714# TCDL Ren Mhr In 0.00(1) Horz TL: 0 in Creep Factor, Kcr = 1.5 125 % VERTICAL UPLIFT: 408# HORIZONTAL REACTION (1:3-5.2-4.0.) (2:0-0,3-4,0.) Plate Offsets (Jnt:X,Y,Ang

Reaction Summary

JT	Type	Brg Combo	Brg Width	Material	Rqd Brg Width	Max React	Max Gray Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
4	Pin (Wall)	1	3.375 in	Spruce-Pine-Fir	1.96 in	714 lbs	-	-138 lbs	-408 lbs	-408 lbs	1,029 lbs
5	Pin (Wall)	1	3,375 in	Spruce-Pine-Fir	1.96 in	714 lbs		-138 lbs	-408 lbs	-408 lbs	546 lbs

Material Summary

SPF #2 2 x 4 SPF #2 2 x 4 BC Webs

Bracing Summary

Sheathed or Purlins at 4-0-0, Purlin design by Others. Sheathed or purlins at 66 "o.c., Purlin design by Others.

Loads Summary

LOAGS SUMMARY

1) This truss has been designed for the effects of a balanced design snow load (Ps = 33.6 psf) and unbalanced design snow loads (5.92 /12, 10.1 psf wind, 33.6 psf lee, 24.9 psf lee over peak to 6 fl) for hips/gables in accordance with ASCE7 - 10 with the following user defined input: 40 psf ground snow load (Pg), Temain Category C, Exposure Category Partially Exposed (Ce = 1.0), Building Category II (I = 1.0), Thermal Condition Unheated (Ct = 1.2), Roof Slope Factor (Cs = 1.00), DOL = 1.15. Ventilated.

2) This iruss has been designed to account for the effects of ice dams forming at the eaves.

3) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 10 with the following user defined input: 120 mph ultimate, Exposure C, Overall Bldg Dims 12 ft x 16 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL= 1.60, CC Zone Width 3 ft.

4) In addition to the snow loading specified on this drawing this truss has also been designed for a roof live load (TCLL) of 20 psf.

5) Minimum storage attic loading in accordance with IRC Table R301.5 has been applied

Member Forces Summary				Table indicates: Member ID, max CSI, max axial force, (max compr force if different from max axial force)								
TC	14-1	0.709	-1,239 lbs	11-2	0.495	-865 lbs	12-3	0.495	-865 lbs	13-5	0.709	-1,239 lbs
BC	3-1	0.841	-1,048 lbs									

Notes:

1) When this truss has been chosen for quality assurance inspection, the Double Polygon Method per TPI 1-2007/Chapter 3 shall be used. Fabrication tolerance = 20 %

1) White this data since training exist.

3) Listed wind uplift reactions based on MWFRS & C&C loading.

4) Bearing meterial shown in the above table has only been checked for resistance perpendicular to grain, and does not indicate adequacy of material for other design considerations.

5) Plate sizes have NOT been checked for minimum sizes for handling of the truss.

SSIONAL

NOTICE A copy of this design shall be farmished to the erection contractor. The design of this individual true is based on design criteria and requirements supplied by the True Manufacturer and relies upon the accuracy and completeness of an information set forth by the Building Designer. A scal on this drawing indicates acceptance of professional engineering responsibility adely for the true component design shown. The autability and use of this component for any particular building design is the responsibility of the Building Designer, per ANS/17F1 1-2007 Chapter 2. "MANS/NOT Truess require proper land allies on the specific design is the responsibility of the Building Designer, per ANS/17F1 1-2007 Chapter 2. "MANS/NOT Truess require proper land allies on the interpretation of the proper installation on the importance is the proper installation on the importance is the proper installation and temporary restraint bracing specifications by others, the installation of installation relearned in the proper installation of the installation relies and the proper installation of the installation relies and the proper installation which is the proper installation which installation relies and the proper installation in the installation relies and the proper installation in the installation relies and the proper installation in the installation relies and the proper installation installation relies and the proper installation in the installation relies and the proper installation in the installation relies and the installation relies and the proper installation in the installation relies and the proper installation in the installation relies and the proper installation in the installation relies and the proper installation relies and the proper installation in the proper installation in the installation relies and the proper installation relies

Simpson Strong Tie 2600 International St Columbus, OH 43228

(THRUST): 1,029#

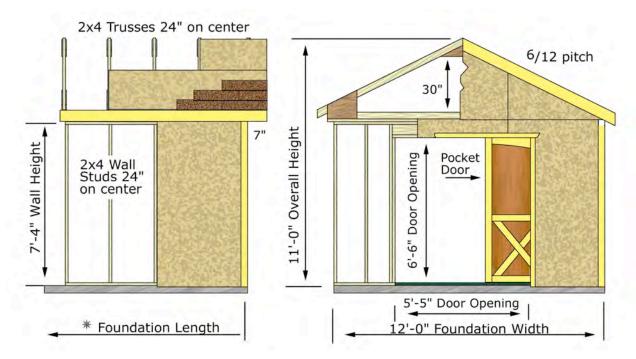
WGT/PLY

23 lbs



Before you order our kit or begin construction, obtain a building permit. If additional documents are required contact Richard@barnkits.com.

SOUTH DAKOTA ELEVATION



Foundation length is the same as building length. *Example*; 16' building length = 16'=0" foundation.

Wall Framing: Constructed from 2x4 precut wall study spaced 24" on center between top, bottom and tie plates.

Pocket Doors: Pre-built 2x4 frame covered with LP 'Smart Panel' primed siding. White pine trim, not painted, installed over siding.

Siding: 7/16" OSB (Oriented Strand Board). Vinyl siding by others.

Roof System: 2x4 trusses spaced 24" on center, (40 psf ground snow load, 120 mph wind load). 7/16" OSB roof sheathing. *Shingles by owner*.

Exterior Trim: White pine trim for gable trim, door opening, and sidewall fascia.

Hardware: Nails for all framing, metal hurricane hangers for trusses. Heavy duty aluminum track, decorative door handles and lockable door latch.

3/4" Plywood

Delux direct provid 8' and floor

4x4 Treated Runners

2x4 Treated Joist 16" o.c.

Deluxe Floor: 4x4 treated runners can be installed directly on the grass. The runners elevate the floor providing air flow under the floor eliminating moisture. 8' and 10' wide floors have three runners, 12' wide floor have four. The floor covering is 3/4" plywood.