

Obtaining a permit for your Best Barns or Sentry Buildings kit.

Building code offices and HOA's may require different documents to obtain a permit. The homeowners first step is to contact their local code office and ask what is needed for the size of building to be purchased.

Typically, the necessary documentation may include some or all of the following.

- Elevations showing at least two sides of structure.
- Site plan showing existing structures and proposed build site.
- Engineered drawings for truss system indicating snow and wind load ratings.*
- Cross sections of wall framing and foundation.
- Tie down locations for high wind load areas.

Permit requirements vary based on location. Some areas may not require a permit at all. The documents provided by Best Barns or Sentry Buildings are intended to help the homeowner with the permit process but do not guarantee a permit will be issued.** It is the homeowner's responsibility to determine if a permit is required and submit the necessary documentation if so.

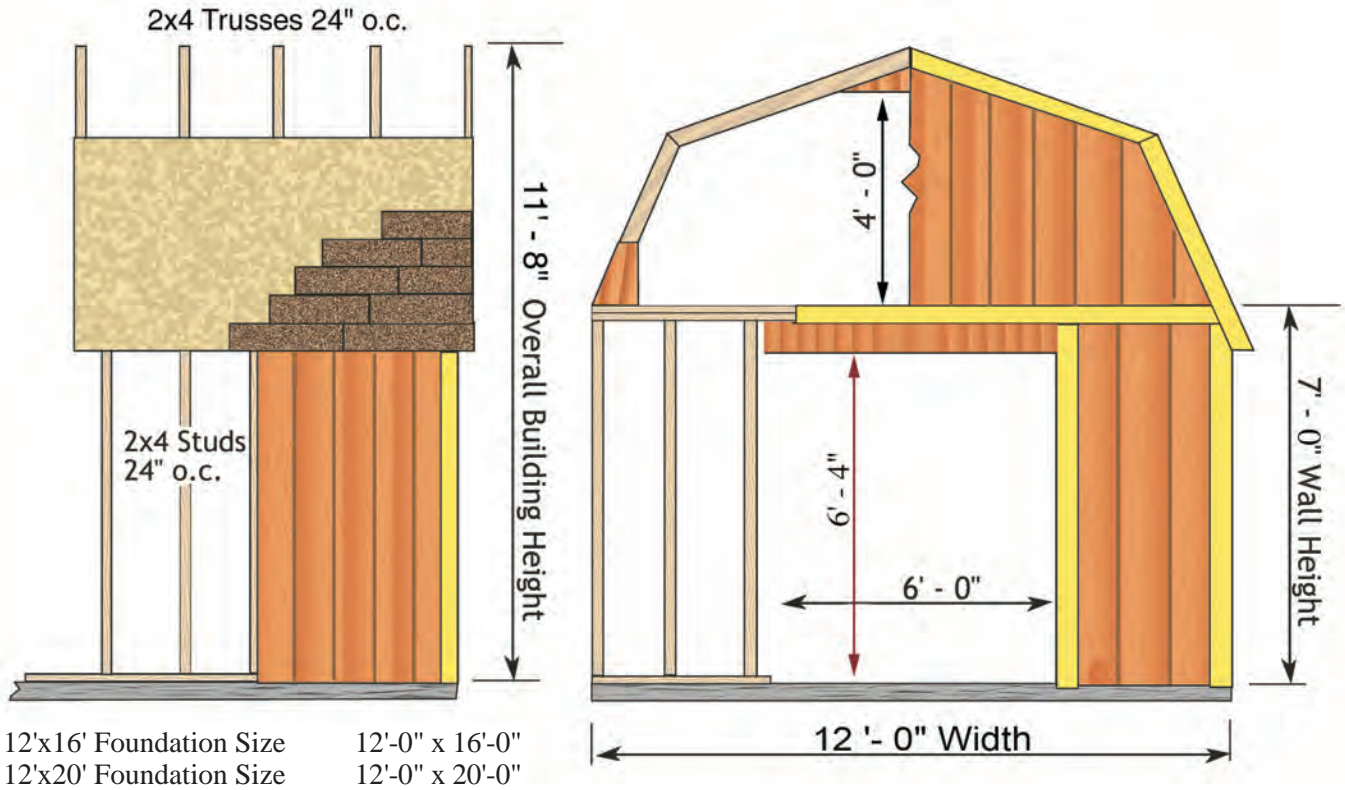
* Engineered truss drawings stamped for your individual state can be obtained upon request. A deposit will be required if shed or garage kit has not yet been purchased. Contact us directly at 800-245-1577 for further details.

** Certain states such as Florida and California have stringent requirements for obtaining a permit. Depending on your location, a civil engineer's services may be required to provide necessary documents. These services are the homeowners responsibility to obtain and are not included in the purchase of a shed or garage kit.



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

MILLCREEK ELEVATION



Wall Framing: 2x4 Construction with 24" on center stud spacing, single bottom plate and top plate with 2x4 tie plates.

2nd Loft Floor: Loft floor on each end with a 4' wide access opening between loft sections.

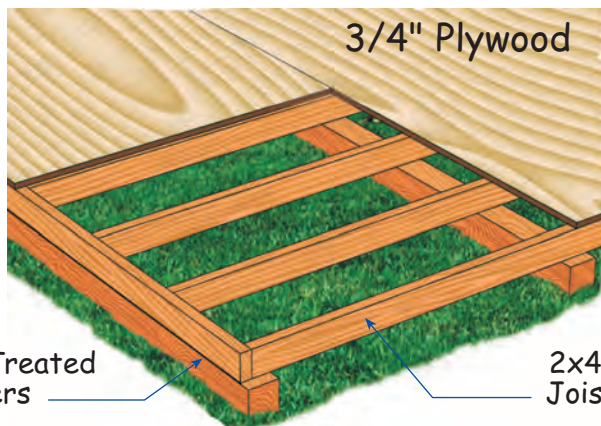
Siding: Louisiana-Pacific 'SmartPanel' 8" o.c. groove, primed ready to paint

Floor: Sold optionally

Roof System: 2x4 trusses spaced 24" on center, (see engineered truss drawing for load ratings). 7/16" OSB roof sheathing. *Shingles by owner.*

Exterior Trim: White pine trim for corners, door, gable trim and front and back fascia. Primed ready to paint.

Hardware: Nails for all framing, door hardware and metal hurricane hangers for trusses included.

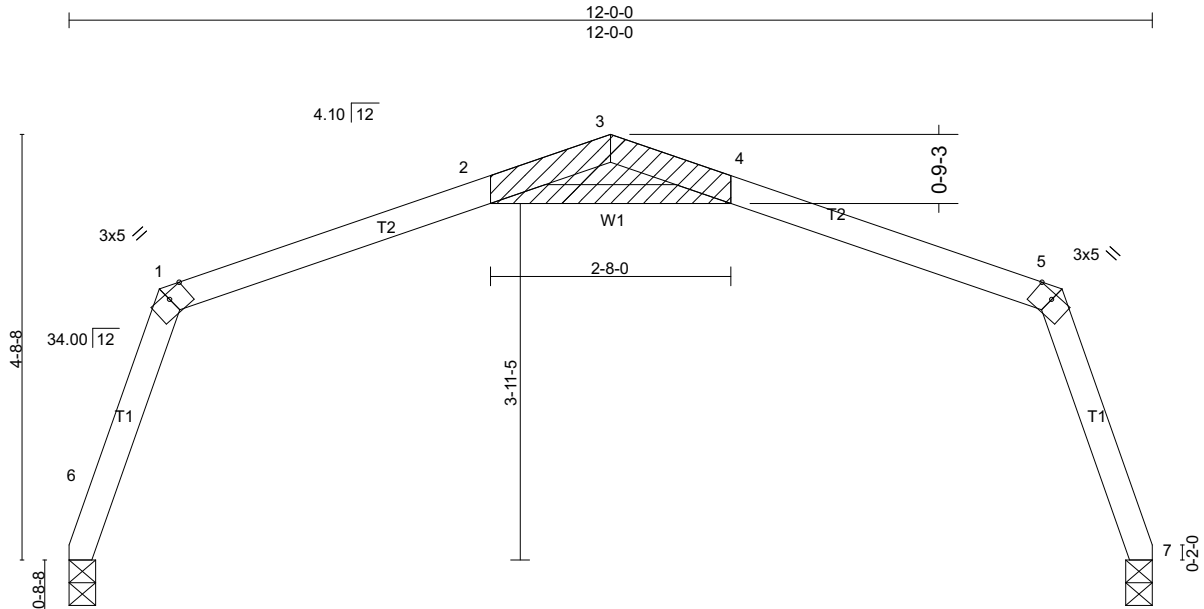


Deluxe Floor (optional accessory): 4x4 treated runners can be installed directly on the grass. The runners elevate the floor providing air flow eliminating moisture. 12' wide floor has four runners. Floor covering is 3/4" plywood.

Job PER191154	Truss G12-50	Truss Type GAMBREL ATTIC	Qty 1	Ply 1	Reynolds Building Systems EZup Sheds - Sentry Building 12ft Gambrel
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P.E. Robbins, P.E., Victoria, IL 61485

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ATTACH 7/16" 24/16 SPAN RATED SHEATHING/OSB TO BOTH SIDES OF TRUSS AS SHOWN 100% PL400 GLUE CONTACT AND (2) ROWS OF .113" x 2" NAILS AT 3" O.C. INTO ALL MEMBERS.

DESIGN WALLS AND CONNCTIONS AT BEARINGS FOR 200 LBS HORIZONTAL LOAD AND 33 LB UPLIFT

Plate Offsets (X,Y)-- [3:0-2-0,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	35.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.24	3-4	>582	240	MT20	197/144
Snow (Ps/Pg)	35.0/50.0**	Lumber DOL	1.15	BC	0.00	Vert(CT)	-0.32	3-4	>442	180		
TCDL	12.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00		n/a	n/a		
BCLL	0.0	Code IRC2015/TPI2014		Matrix-S							Weight: 21 lb	FT = 20%
BCDL	2.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-11-7 oc purlins. [PSA]
WEBS	2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8 (min. 0-1-8), 7=0-3-8 (min. 0-1-8)
 Max Horz 6=199(LC 1), 7=199(LC 1)
 Max Uplift 6=-33(LC 11), 7=-33(LC 11)
 Max Grav 6=367(LC 1), 7=367(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-8=-287/143, 8-9=-227/145, 2-9=-223/146, 2-3=-725/199, 3-4=-725/199, 4-10=-223/146, 10-11=-227/145, 5-11=-287/143,
 1-6=-406/156, 5-7=-406/156
 WEBS 2-4=-51/557

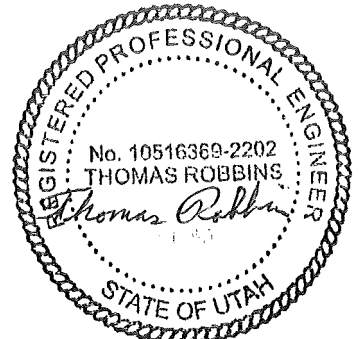
NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=1.2psf; h=15ft; B=24ft; L=12ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 4-1-6, Exterior(2) 4-1-6 to 6-0-0, Corner(3) 6-0-0 to 9-0-0, Exterior(2) 9-0-0 to 10-10-10, Corner(3) 10-10-10 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- ** TCLL: ASCE 7-10; Pr=35.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=50.0 psf (ground snow); Ps= varies (min. roof snow=35.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.00
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- The bottom chord dead load shown is sufficient only to cover the truss weight itself and does not allow for any additional load to be added to the bottom chord.
- Bearing at joint(s) 6, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify cap. of bearing surface.
- One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 7. This connection is for uplift only and does not consider lateral forces.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and reference standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-63, 3-5=-63, 1-6=-63, 5-7=-63

Tom Robbins 3638 Oak Valley Lane Waukesha WI 51388



06/11/2020

Best Barns model: _____
____ft. wide x ____ft. long

Manufactured by:
Reynolds Building Systems, Inc.
205 Arlington Drive
Greenville, PA 16125
phone: 800-245-1577
fax: 724-646-0772

Common Foundation Cross Sections

This document illustrates common foundation types which can be used for construction of Best Barns 12 ft. wide structures. Alteration may be necessary to conform to homeowners intended use and or permitting requirements.

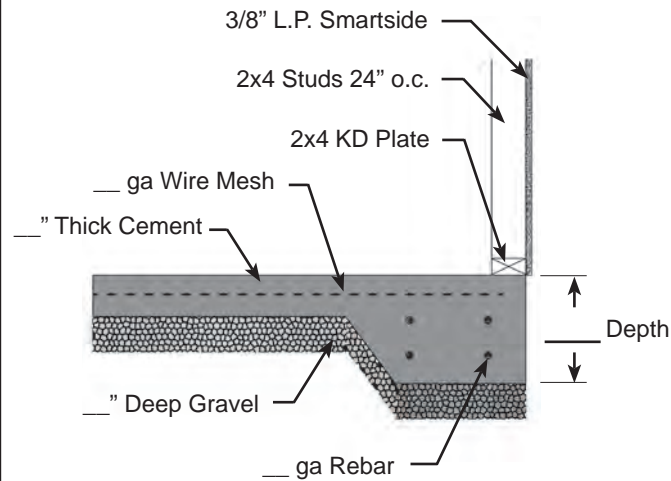
Drawings not to scale.

Instructions:

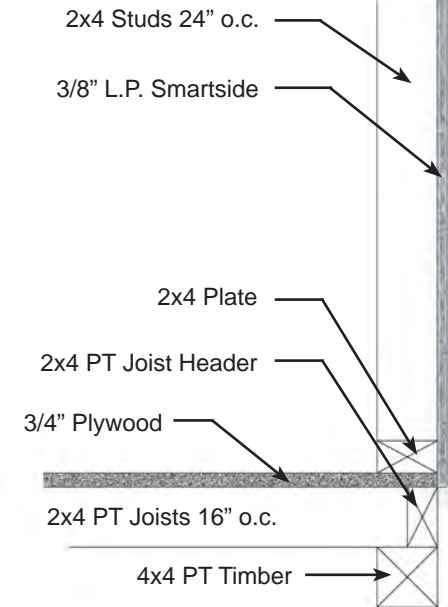
Check appropriate foundation cross section and provide specifications as necessary.

Homeowner may also design and draw in space provided for custom foundation type.

Concrete Slab



Wood Floor



Homeowner Design

Best Barns model: Millcreek
12ft. wide x ___ ft. long

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Truss & Wall Cross Section

Top of wall inclusive of wall framing, loft floor, floor joists, joist header and truss cross sections.

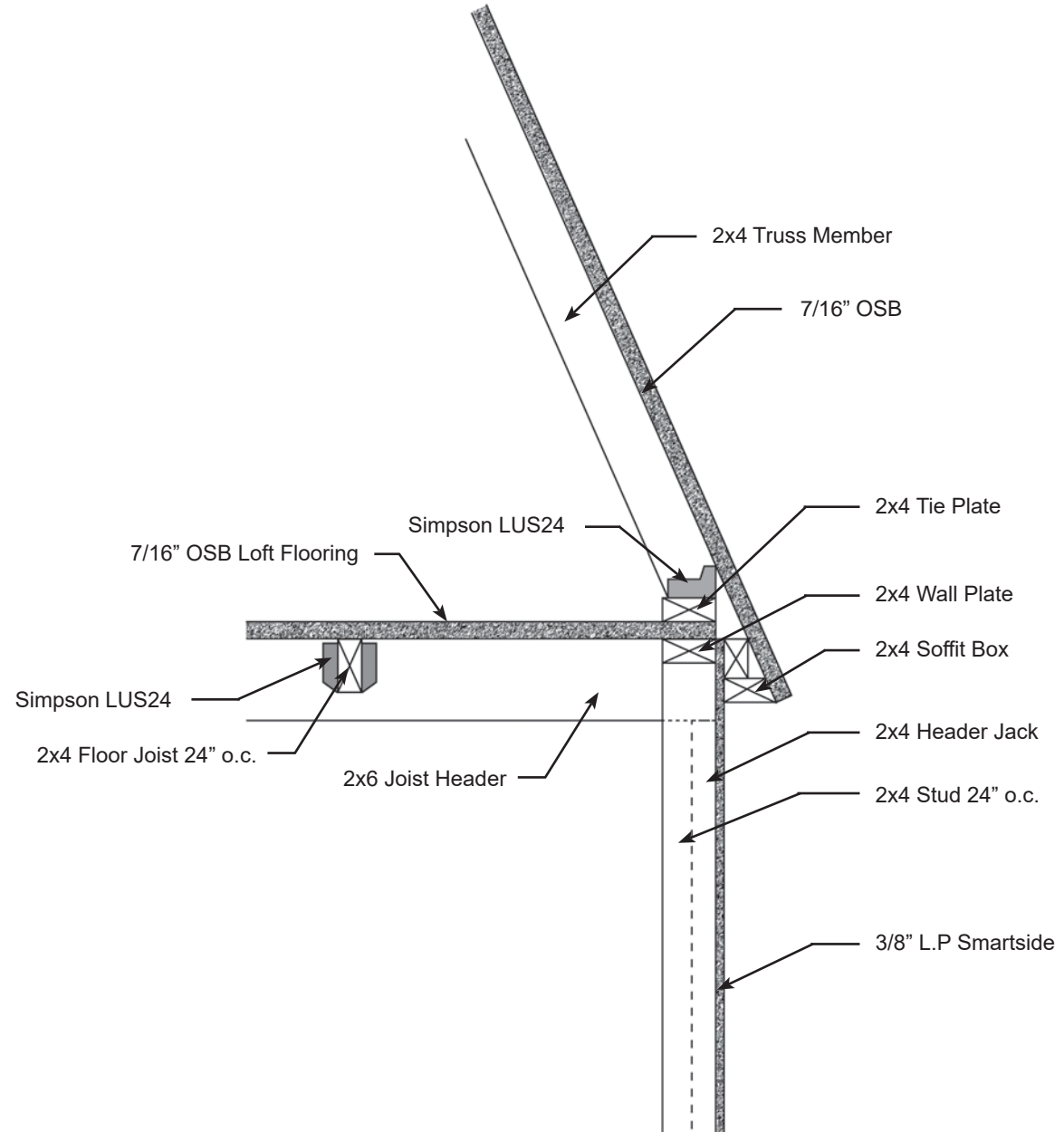
Drawing not to scale.

Instructions:

Homeowner may provide additional information as appropriate.

Notes:

Refer to installation manual for further detail.



Site Plan for:

Manufactured by:
Reynolds Building Systems, Inc.
205 Arlington Drive
Greenville, PA 16125
phone: 800-245-1577
fax: 724-646-0772

Instructions:

Draw property line, existing structures and proposed placement of building.

Homeowner may also be required to show trees and shrubs. Check with HOA or permit office for requirements.

A large, empty rectangular box with a black border, intended for the site plan drawing. It occupies the right two-thirds of the page.