

## Obtaining a permit for a Best Barns shed or garage kit

*Do-it-Yourself kits from Best Barns are designed for use as storage buildings or garages only. Use for any other purposes is neither implied nor inferred.\**

Building code offices and HOA's may require additional documents to obtain a permit. The homeowner's 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.

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

\*Any alteration to the construction of Best Barns sheds or garages may require the services of a civil engineer to meet local building codes. Best Barns cannot provide these additional services.

\*\* Engineered truss drawings stamped for your individual state can be obtained upon request. Some models do not have wind and snow load ratings. A non refundable fee will be required to purchase stamped drawings. 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 homeowner's responsibility to obtain from an engineer within the state of build location and are not included in the purchase of a shed or garage kit.

DESIGN BY / CHECKED BY:  
A.W. / O.A.

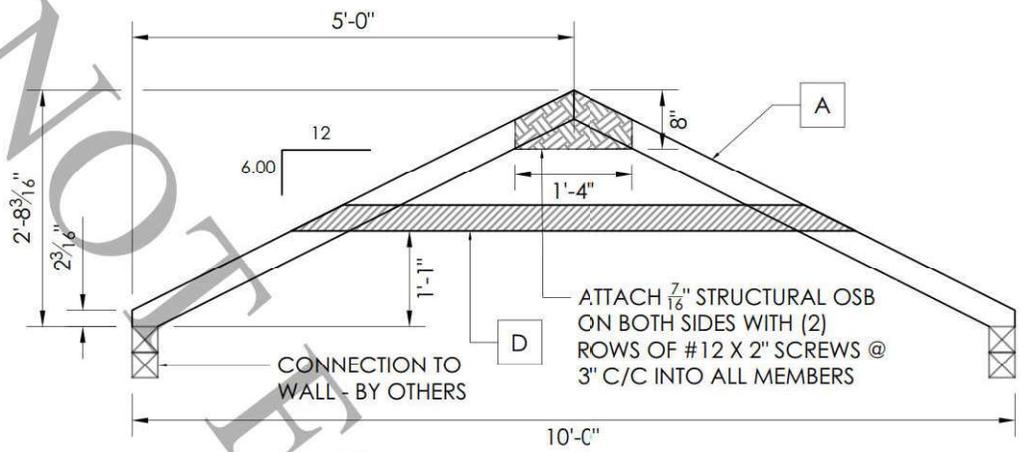
PROJECT NO.:  
411-23-0575

CUSTOMER:  
BEST BARNS

TITLE:  
TIMBER TRUSS

STATE:  
XX - XXXXX

DATE:  
04/25/2023



**DESIGN CRITERIA**

INTERNATIONAL BUILDING CODE (IBC 2015, IBC 2018, IBC 2021) DESIGN CRITERIA:

**DEAD LOAD (D):**

ROOF COLLATERAL DEAD LOAD 2.5 PSF

**LIVE LOAD (Lr):**

ROOF LIVE LOAD 20 PSF

**SNOW LOAD (S):**

GROUND SNOW LOAD 40 PSF  
 SNOW LOAD IMPORTANCE FACTOR (Is) 1.0  
 EXPOSURE FACTOR (Ce) 1.0  
 THERMAL FACTOR (Ct) 1.2  
 GOVERNING ROOF SNOW LOAD 33.8 PSF

UNBALANCED SNOW LOAD 40 PSF

**WIND (W):**

ANALYSIS PROCEDURE: ASCE 7-10 / ASCE 7-16  
 BASIC WIND SPEED: 130 MPH  
 EXPOSURE CATEGORY: C

**LOAD COMBINATIONS:**

1.0 D  
 1.0 D + 1.0 L  
 1.0 D + 1.0 (Lr or S)  
 1.0 D + 0.75 L + 0.75 (Lr or S)  
 1.0 D + (0.6 W)  
 1.0 D + 0.75 (1.0 W) + 0.75 L + 0.75 (Lr or S)  
 0.6 D + 1.0 W

**DESIGN DETAILS**

|   |           |
|---|-----------|
| A - TOP CHORD                           | 2X4       |
| B - BOTTOM CHORD                        | -         |
| C - WEB                                 | -         |
| D - COLLAR-TIE                          | 2X4       |
| SPACING                                 | 24" C/C   |
| WOOD MATERIAL                           | SPF NO. 2 |
| MAX. UNBRACED LENGTH OF TOP CHORD       | 6'-0"     |
| DEAD LOAD DEFLECTION                    | L / 180   |
| LIVE LOAD DEFLECTION                    | L / 240   |
| DEAD + LIVE LOAD DEFLECTION             | L / 180   |
| UPLIFT REACTION AT CONN. TO WALL (LBF)  | 98        |
| LATERAL REACTION AT CONN. TO WALL (LBF) | 555       |
| BEARING REACTION AT CONN. TO WALL (LBF) | 379       |

**WOOD DESIGN NOTES:**

|  |      |
|--|------|
| C <sub>D</sub> - LOAD DURATION FACTOR FOR WIND | 1.6  |
| C <sub>D</sub> - LOAD DURATION FACTOR FOR SNOW | 1.15 |
| C <sub>M</sub> - MOISTURE CONTENT              | 1.0  |
| C <sub>t</sub> - TEMPERATURE FACTOR            | 1.0  |

**NOTES:**

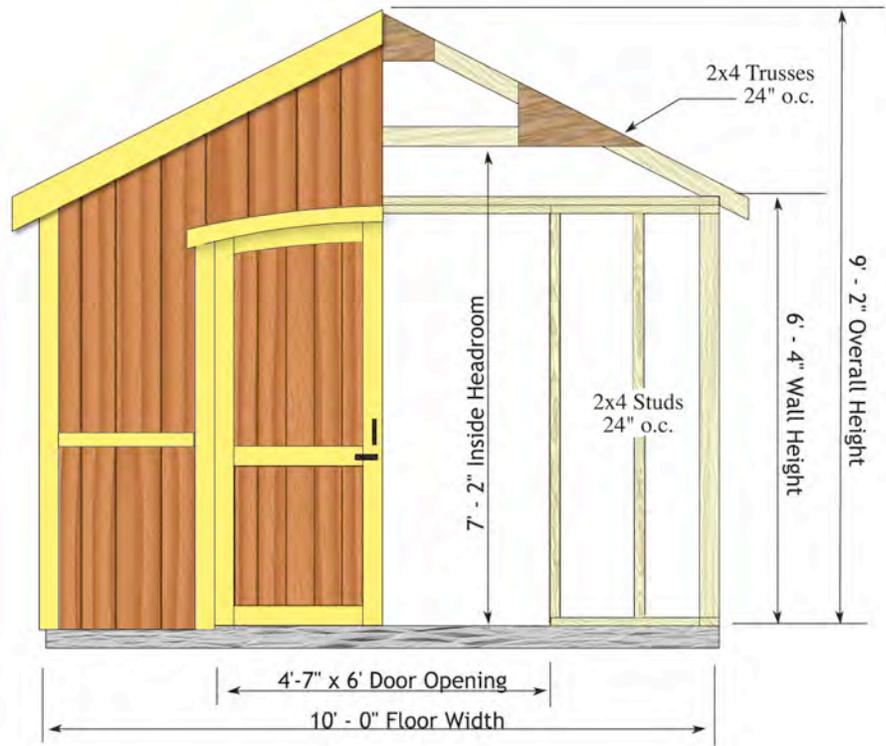
- UNBALANCED SNOW LOADS HAVE BEEN CONSIDERED IN THE DESIGN.
- WIND LOADING IS BASED ON 3-S GUST ULTIMATE WIND SPEED, EXPOSURE C, PER ASCE 7.
- LOADS ARE BASED ON RISK CATEGORY II.
- SEE ADDITIONAL SHEETS FOR MEMBER CHECKS.

**REPORT DATE EXPIRES:** XX/XX/XXXX  
**STAMP DATE EXPIRES:** XX/XX/XXXX  
**DATE SIGNED:** XX/XX/XXXX



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

## CAMBRIDGE ELEVATION



### Foundation Size

|                  |                     |
|------------------|---------------------|
| 10'x12' Building | 10' - 0" x 12' - 0" |
| 10'x16' Building | 10' - 0" x 16' - 0" |
| 10'x20' Building | 10' - 0" x 20' - 0" |

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

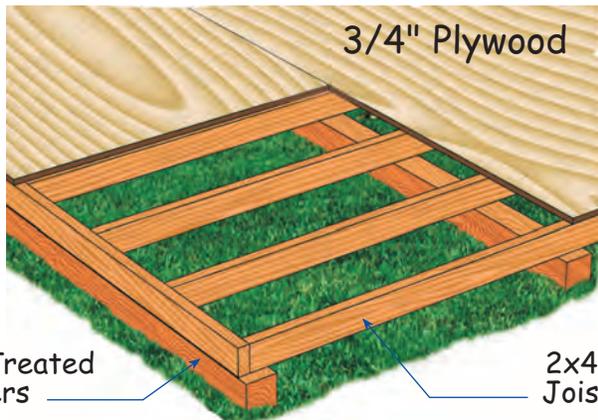
**Pocket Doors:** Pre-built 2x4 frame covered with LP 'SmartPanel' primed siding. Door trim primed ready to paint.

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

**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 sidewall fascia. Primed ready to paint.

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



**Deluxe Floor (optional accessory):** 4x4 treated runners can be installed directly on the grass. The runners elevate the floor providing air flow eliminating moisture. 10' wide floor has three runners. Floor covering is 3/4" plywood.



**Best Barns model:** \_\_\_\_\_  
\_\_\_\_ ft. wide x \_\_\_\_ ft. long

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

### Truss & Wall Cross Section

Top of wall inclusive of wall  
framing and truss cross sections.

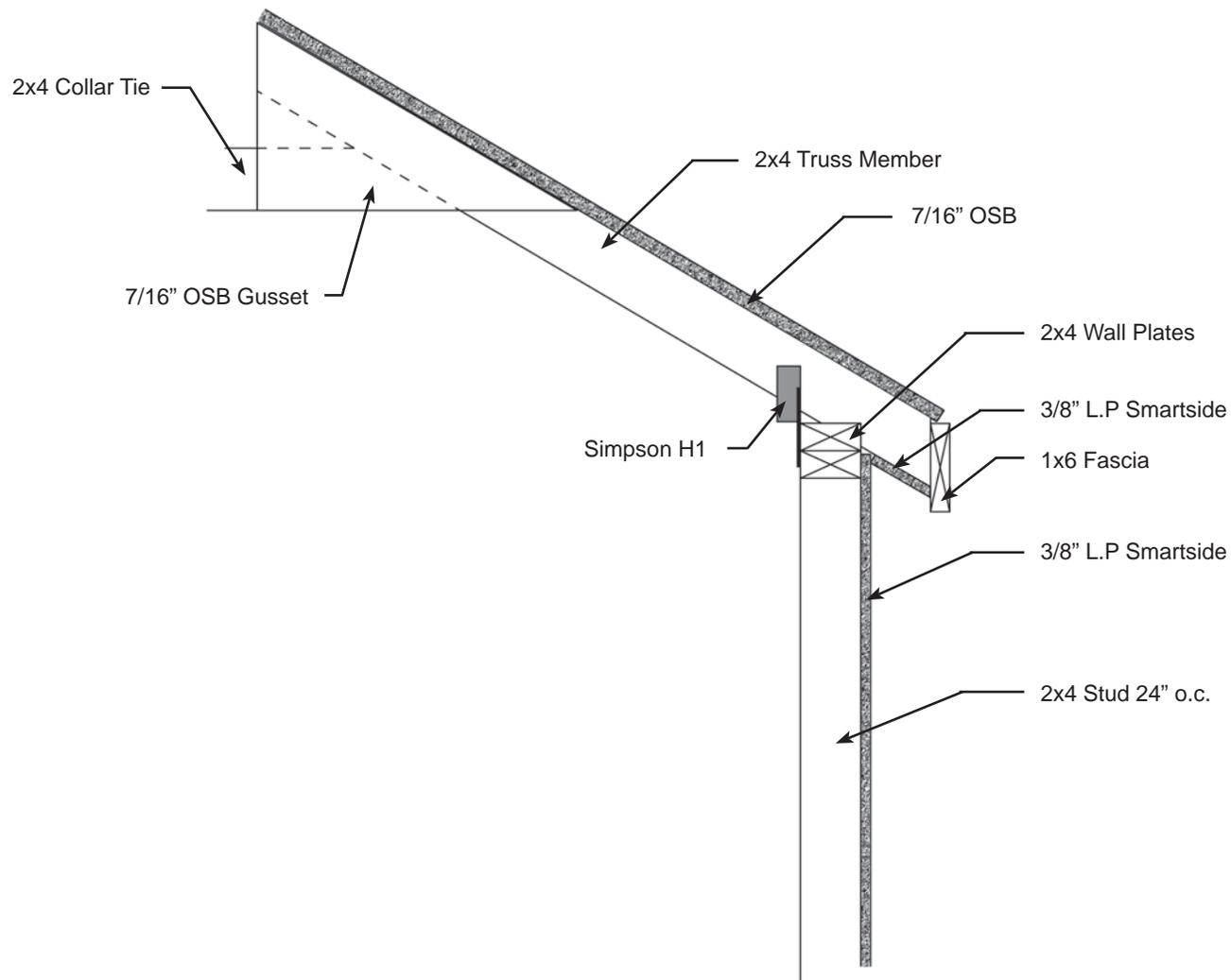
Drawing not to scale.

#### Instructions:

Homeowner may provide  
additional information as  
appropriate.

#### Notes:

Refer to installation manual for  
further detail.



**Site Plan for:**

Manufactured by:

RBS Holdings, 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.