

10×12 Lean-To Shed Plan

Difficulty: Easy | **Time:** 1-2 Days | **Cost:** ~\$1,500 - \$2,200

1. Project Overview

The Lean-To (or "Skillion") style shed features a modern single-slope roof. This design is the easiest to build because it requires no complex roof trusses. It is ideal for placing against a fence or the side of a house to direct water away from the structure.

- **Width:** 12 ft (Front/Back)
 - **Depth:** 10 ft (Sides)
 - **Front Wall Height:** 8 ft
 - **Back Wall Height:** 7 ft
 - **Roof Pitch:** 2:12 slope (approximate)
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2. Material List

Foundation & Floor

- **3x** | 4" x 4" x 12' Pressure Treated Skids
- **2x** | 2" x 6" x 12' Pressure Treated (Rim Joists)
- **10x** | 2" x 6" x 10' Pressure Treated (Floor Joists)
- **4x** | 4' x 8' x 3/4" Plywood (Flooring)

Walls

- **35x** | 2" x 4" x 8' Studs (Standard Walls)
- **8x** | 2" x 4" x 10' Studs (For the tall Front Wall)
- **6x** | 2" x 4" x 12' Plates (Top/Bottom Plates)
- **11x** | 4' x 8' T1-11 Siding or OSB Sheathing

Roof

- **12x** | 2" x 6" x 12' (Rafters - must be 12' to span the 10' depth + overhangs)
- **6x** | 4' x 8' x 7/16" OSB (Roof Decking)
- **12x** | Metal Roofing Panels (12' length) OR 5 Bundles Asphalt Shingles
- **1x** | Roll of Roofing Felt

Hardware

- **10x** | Rafter Ties (Hurricane Ties)
- **3 lbs** | 3-1/2" Nails

- **1 Box** | Roofing Screws (if using metal) or Roofing Nails
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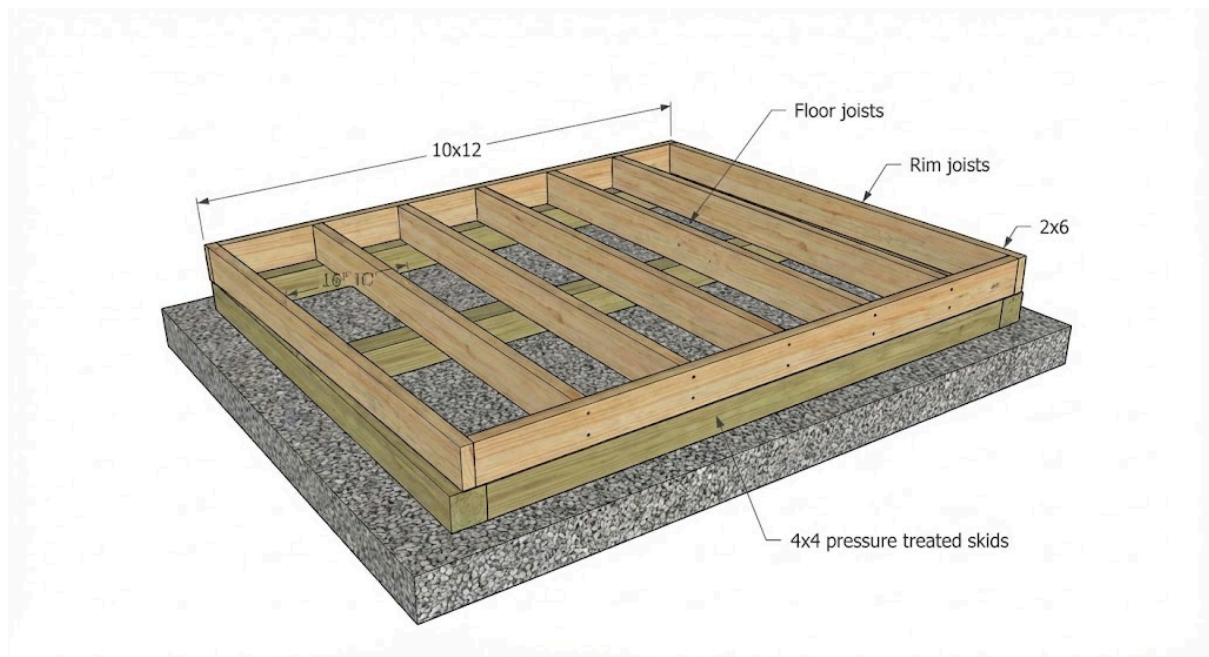
3. Cut List

- **High Wall Studs (Front):** Cut to **92 5/8"** (Standard 8').
 - **Low Wall Studs (Back):** Cut to **81"** (Approx 6'9").
 - **Side Wall Studs:** These must be cut at an angle to match the slope of the roof connecting the front wall to the back wall. Measure these *after* standing the front and back walls.
 - **Rafters:** 2x6s cut to **11' 6"** length with a "Birdsmouth" cut to sit flat on the top plates.
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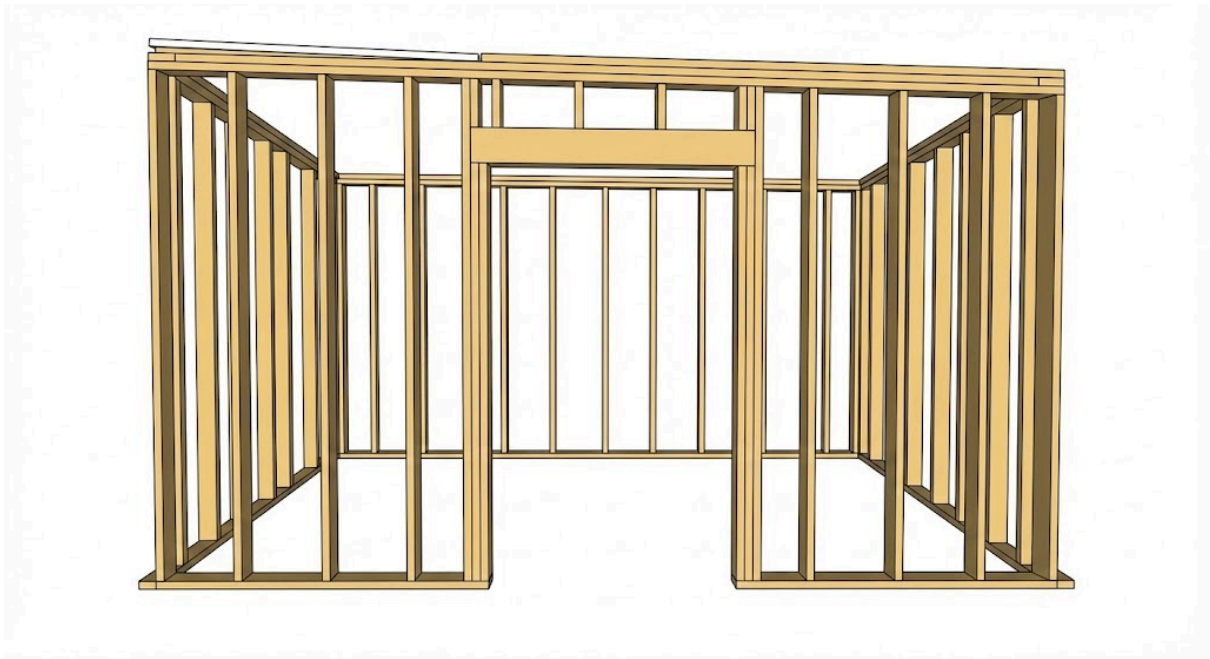
4. Step-by-Step Instructions

Step 1: The Foundation

1. Construct the standard 10x12 skid and joist foundation (identical to the Gable plan).
2. Ensure the plywood floor is perfectly square before nailing it down.

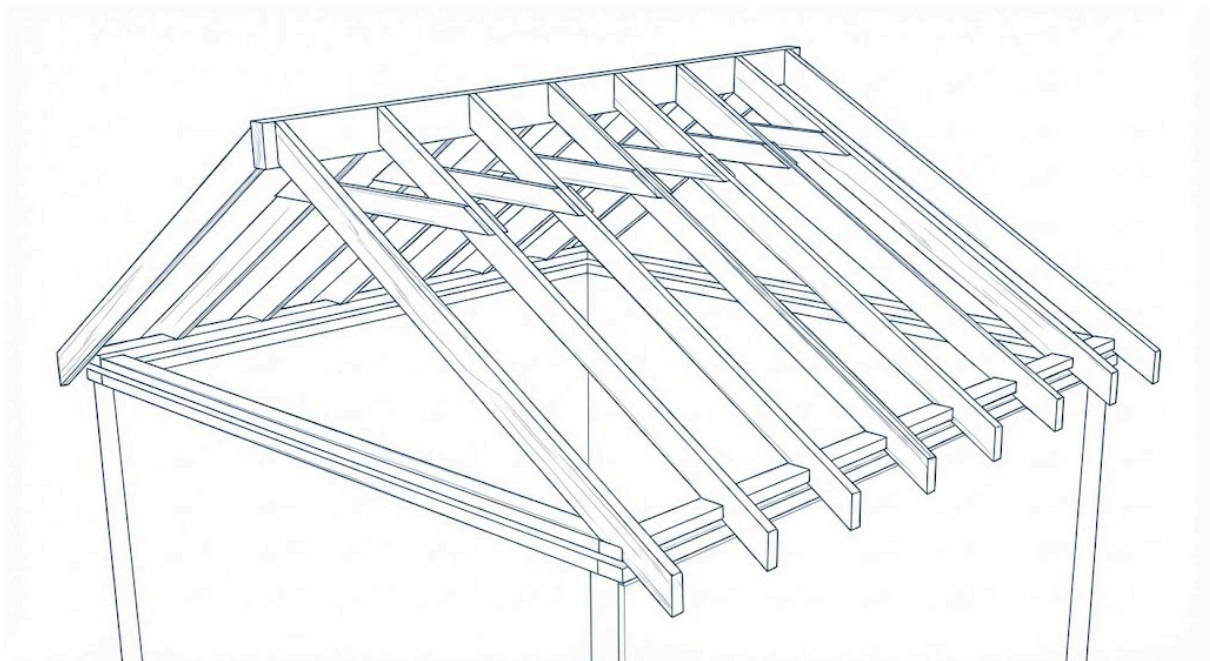


Step 2: Framing the Uneven Walls



1. **Front Wall (High Side):** Build a standard 12' wide wall using full-length studs. Frame a door opening (typically 60" wide) in this wall.
2. **Back Wall (Low Side):** Build a 12' wide wall using shorter studs (approx 7' tall).
3. **Side Walls:** Build the bottom frame of the side walls. Install the top plate *at an angle* connecting the high front wall to the low back wall. Cut studs to fit beneath this angled top plate.

Step 3: The Roof System



1. Install the 2x6 rafters running from the Front Wall to the Back Wall.
2. Space rafters 16" or 24" on center.

3. Use "Hurricane Ties" (metal brackets) to secure the rafters to the top plates. This is crucial for uplift protection.
4. Ensure you have at least a 6-inch overhang on the front and back.

Step 4: Sheathing & Siding

1. Install T1-11 siding. On the side walls, you will need to cut the siding at an angle to match the roof slope.
2. Install OSB sheathing on the roof rafters.

Step 5: Roofing

1. **If using Metal (Recommended for Lean-To):** Install horizontal 1x4 "purlins" (strips of wood) across the roof sheathing every 2 feet. Screw the metal panels into the purlins.
2. **If using Shingles:** Staple down felt paper, install drip edge, and nail down shingles starting from the low side working up to the high side.