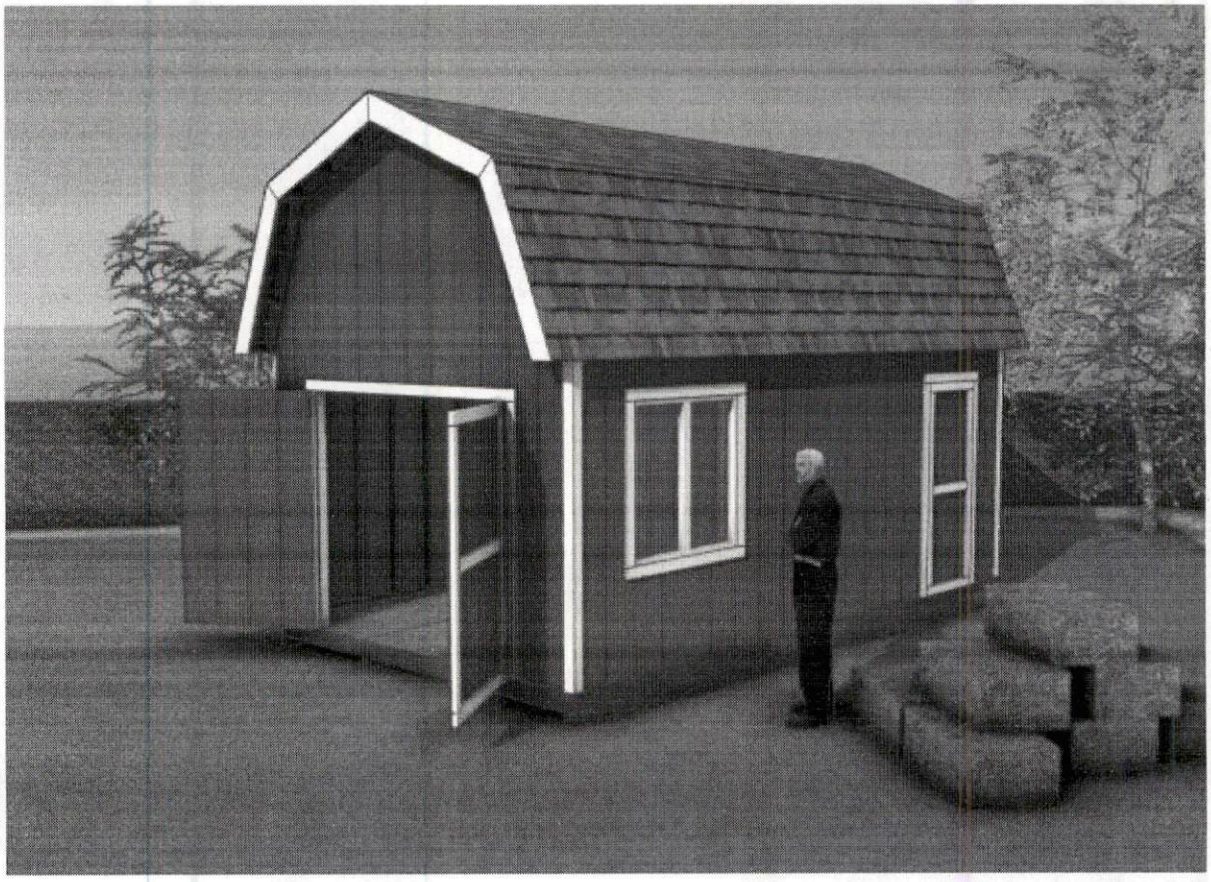
12×20 Gambrel Shed Plans

myoutdoorplans.com/shed/12x20-gambrel-shed-plans/

Ovidiu February 17, 2017

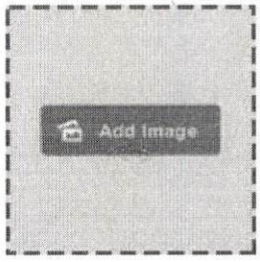


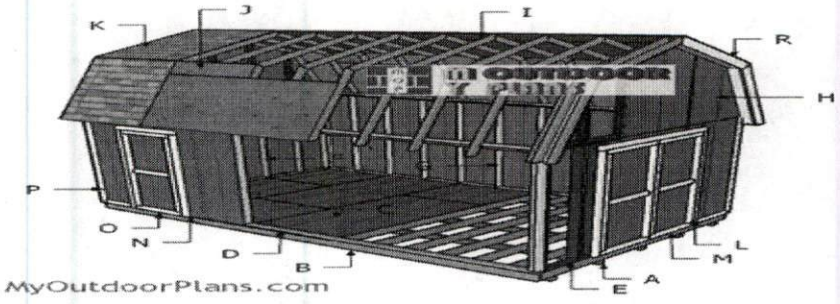
This step by step diy project is about **12×20 gambrel shed plans**. I have designed this large storage shed with a gambrel roof, so you can organize your tools. Furthermore, if you want to set up a small hobby workshop, this project might suit your needs and be friendly with your pocket. Take a look over the rest of my **woodworking plans**, if you want to get more building inspiration.

When buying the lumber, you should select the planks with great care, making sure they are straight and without any visible flaws (cracks, knots, twists, decay). Investing in cedar or other weather resistant lumber is a good idea, as it will pay off on the long run. Use a spirit level to plumb and align the components, before inserting the galvanized screws, otherwise the project won't have a symmetrical look. If you have all the materials and tools required for the project, you could get the job done in about a day. See all my **Premium Plans HERE**.

Projects made from these plans

Building a large gambrel shed





Building-a-12×20-barn-shed

Cut & Shopping Lists

- **A** – ~~4 pieces of 4×4 lumber – 240″ long **SKIDS**~~ 8 CAMO BLOCKS ON 6x6 POSTS
- **B** – 2 pieces of 2×8 lumber – 240″ long, 16 pieces – 141″long **FLOOR FRAME**
- **C** – 5 pieces of 3/4″ plywood – 48″x96″ long, 5 pieces – 48″x48″ long **FLOORING**
- **D** – 1 piece of 2×4 lumber – 240″ long, 1 piece – 233″ long, 1 piece – 26 1/4″ long, 1 piece – 181 3/4″ long,14 pieces – 91 1/2″ long, 2 pieces – 78 1/2″ long, 6 pieces – 7 1/2″ long, 3 pieces – 36″ long, 3 pieces – 37″ long, 2 pieces of 2×6 lumber – 35″ long, 4 pieces – 39″ long **SIDE WALL**
- **E** – 1 piece of 2×4 lumber – 144″ long, 1 piece – 137″ long, 2 pieces – 31″ long, 6 pieces – 91 1/2″ long, 2 pieces – 87 1/2″ long, 2 pieces of 2×6 lumber – 75″ long **FRONT WALL**
- **F** – 2 pieces of 2×4 lumber – 137″ long, 1 piece – 144″ long, 7 pieces – 91 1/2″ long **BACK WALL**

- **G** – 2 pieces of 2×4 lumber – 240″ long, 1 piece – 233″ long, 13 pieces – 91 1/2″ long **SIDE WALL**
- **H** – 6 pieces of 2×8 lumber – 144″ long **LOFT JOISTS**
- **I** – 10 pieces of T1-11 siding – 48″x96″ long, 5 pieces – 48″x94 1/2″ long, 1 piece – 48″x7″ long **SIDING**

- 4 pieces of 4×4 lumber – 20′
- 16 pieces of 2×8 lumber – 12′
- 2 pieces of 2×8 lumber – 20′
- 8 pieces of 3/4″ plywood – 4’x8′
- 6 pieces of 2×4 lumber – 20
- 5 pieces of 2×4 lumber – 12′
- 52 pieces of 2×4 lumber – 8′
- 5 pieces of 2×6 lumber – 8′
- 15 pieces of T1-11 siding – 4’x8′
- 1/2″ plywood
- skid ties
- 8d nails, 2 1/2″ screws, 3 1/2″ screws
- wood filler , wood glue, stain/paint

Tools

Hammer, Tape measure, Framing square, Level

Miter saw, Drill machinery, Screwdriver, Sander

Safety Gloves, Safety Glasses

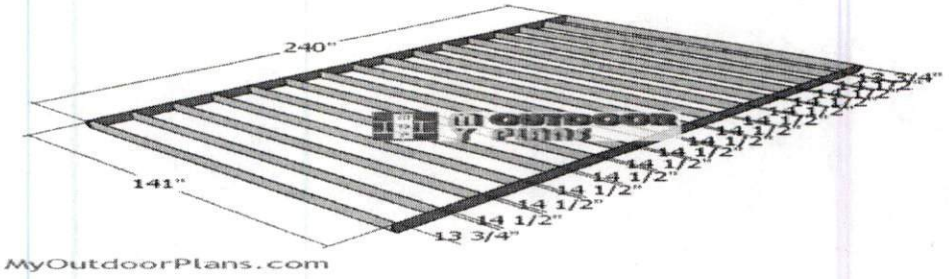
Time

One week

Related

- **PART 1: 12×20 Gambrel Shed Plans**
- **PART 2: 12×20 Gambrel Shed Roof Plans**
- **PART 3: 12×20 Gambrel Shed Doors Plans**
- **12×20 Gambrel Cabin Plans**

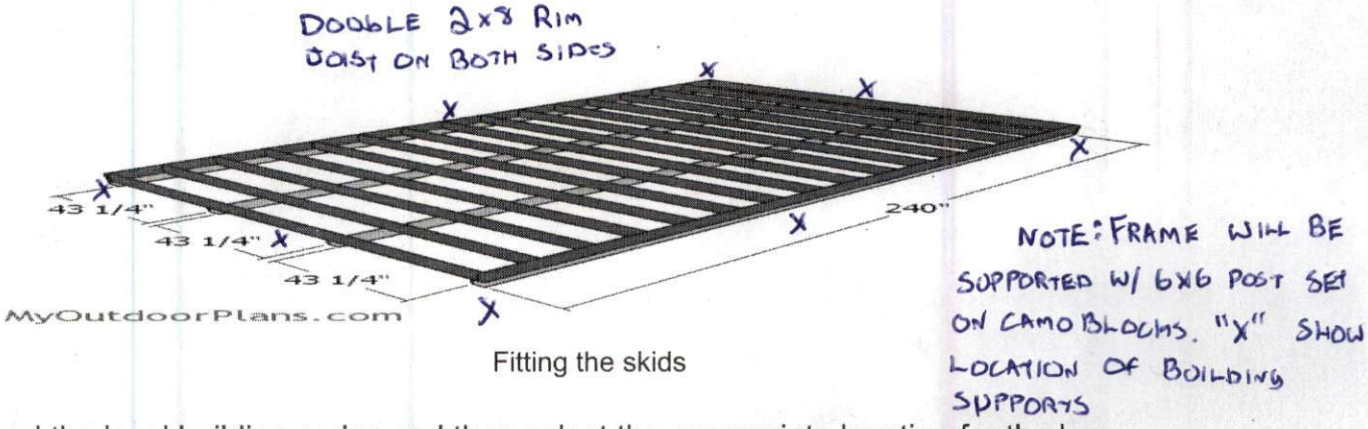
How to build a 12×20 gambrel shed



Building-the-floor-frame-12×20-gambrel-shed

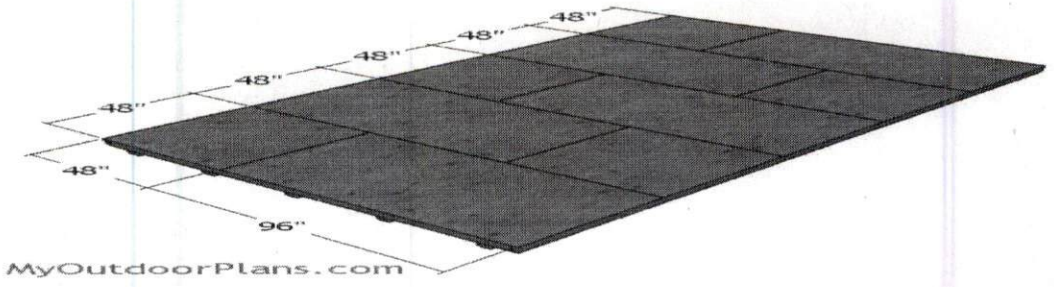
The first step of the project is to build the floor for the shed from 2×8 lumber. Cut the joists at the right dimensions and then lay them on a level surface. Make sure the corners are square and then align the edges flush. Drill pilot holes through the rim joists and insert 3 1/2″ screws into the perpendicular components.

Smart Tip: You need to read the local codes so you make sure the plans you are going to use comply with the legal requirements.



Fitting the skids

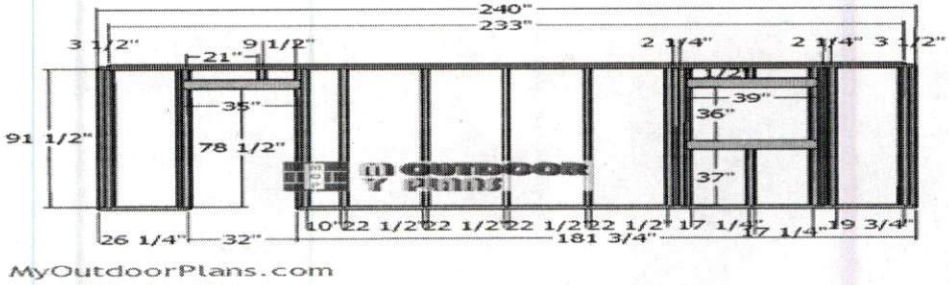
Read the local building codes and then select the appropriate location for the large gambrel shed. Level the surface thoroughly and then set the 4×4 skids, spacing them evenly. Lay the floor frame and align the edges flush. Use rafter ties to lock the frame to the skids



Floor sheets

Fit the 3/4″ plywood sheets to the floor frame. Align the edges flush and make sure there are no gaps between the sheets. Insert 1 5/8″ screws every 8″ along the joists, so you lock the sheets into place tightly.

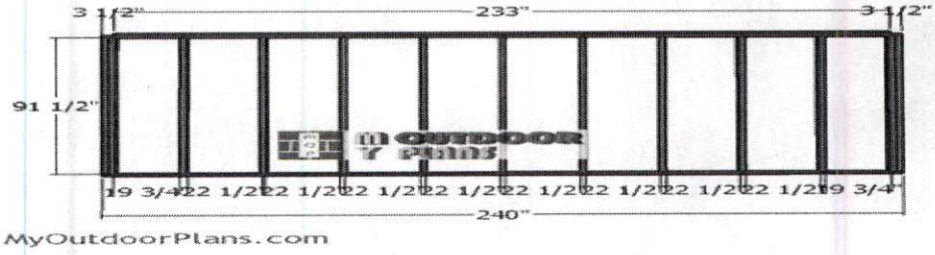
Building wall frames



Side-wall-with-window-frame

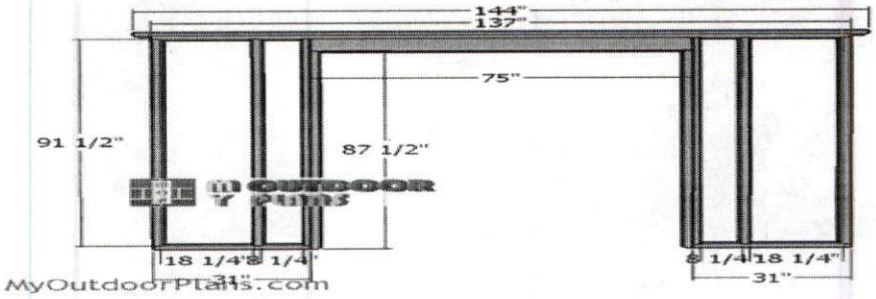
Continue the large gambrel shed project by assembling the side wall with windows. Use 2×6 lumber for the double headers. Sandwich a piece of 1/2″ plywood between the 2×6 beams and lock them together with 2 1/2″ screws.

Use 2×4 lumber for the rest of the components (plates and studs). Drill pilot holes through the plates and insert 3 1/2″ screws into the studs. Place the studs every 24″ on center and make sure the corners are square. You can adjust the size of the window and door openings to suit your needs.



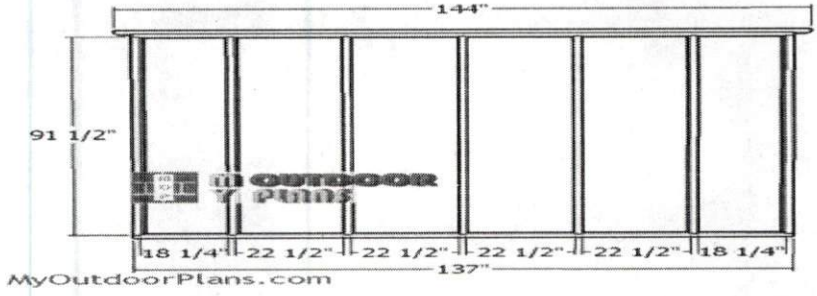
Side-wall-frame—12×20-shed

Assembling the opposite wall of the storage shed is a straight forward job. After cutting all the components to the right dimensions, you need to drill pilot holes through the plates and insert 3 1/2″ screws into the studs. Place the studs every 24″ on center, for a professional result. As you can easily notice in the diagram, you need to place double studs at both ends of the walls. Fit 1/2″ plywood between the double studs.



Front-wall-frame

Cut the components from 2×4 lumber. Drill pilot holes through the plates and insert 3 1/2″ screws into the studs. Use 2×6 lumber for the double header. You can adjust the size of the door opening to suit your needs.



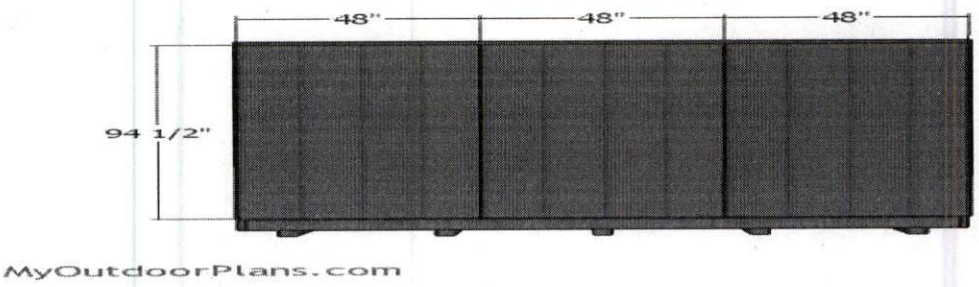
Back-wall-frame

Frame the back wall for the storage shed. Drill pilot holes through the plates and insert 3 1/2″ screws into the studs. Place the studs every 24″ on center. Make sure the corners are square.

Assembling the frame of the shed

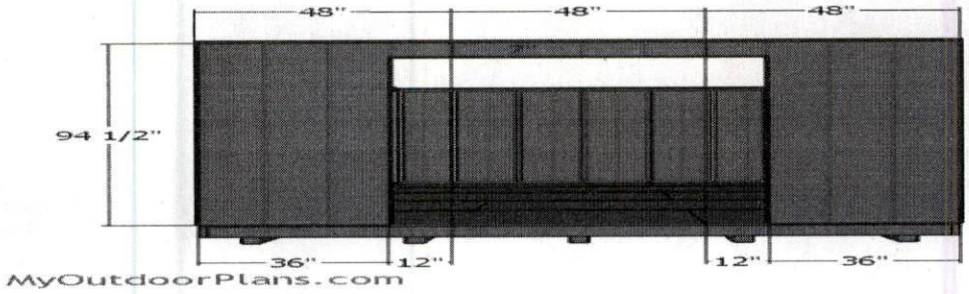
Fit the wall frames to the floor of the shed and align the edges flush. Drill pilot holes through the bottom plates and insert 3 1/2″ screws into the floor. Plumb the wall frames with a spirit level for a professional result. Moreover, you need to lock the adjacent wall together by drilling pilot holes and inserting 3 1/2″ screws.

Fitting the siding sheets



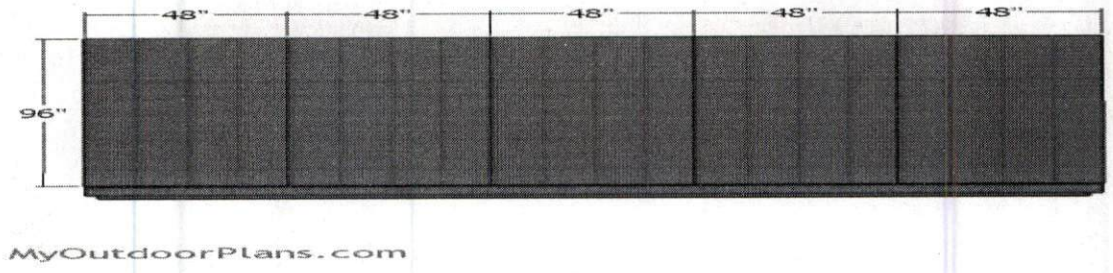
Back wall – Siding

Attach T1-11 siding sheets to the back of the gambrel shed. As you can easily notice in the diagram, you need to inset the sheets about 1 1/2″ from the top plates. Use 6-8d nails to secure the sheets along the framing, every 8″. Leave no gaps between the sheets for a professional result.



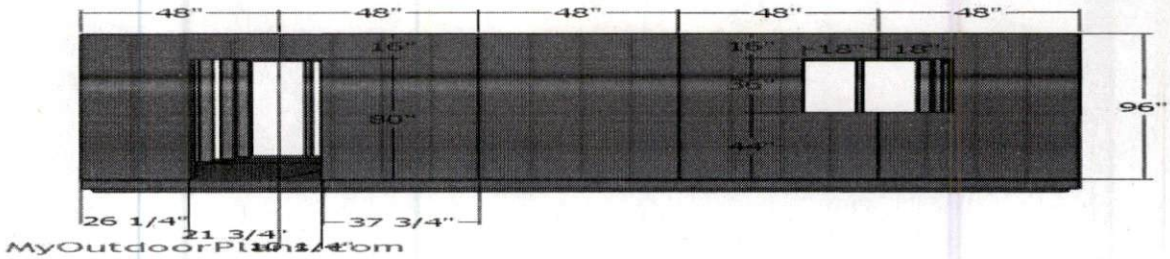
Fitting the panels to the front wall

Fit the T1-11 siding sheets to the front of the shed, as well. Make the cuts so you can fit the sheets around the door opening. Align the edges flush and use 6-8d nails to lock the sheets into place tightly. Leave no gaps between the sheets for a professional result.



Side wall – Siding

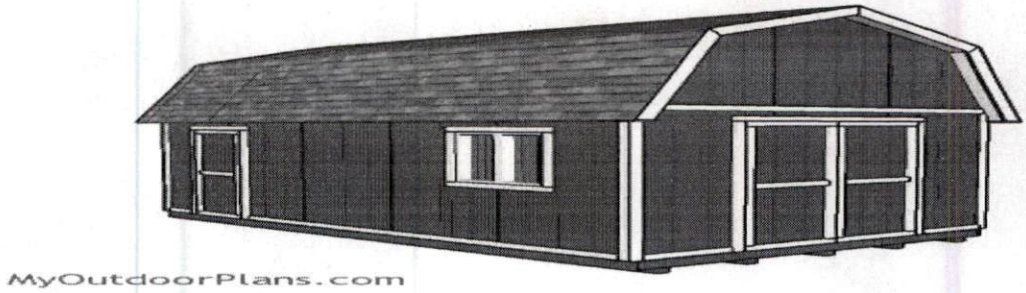
Fit the sheets to the plain side of the shed. Align the edges to the top of the plates and then secure them into place with 6-8d nails. Insert the nails every 8″ along the framing. Leave no gaps between the sheets for a professional result.



Side wall with window – Siding

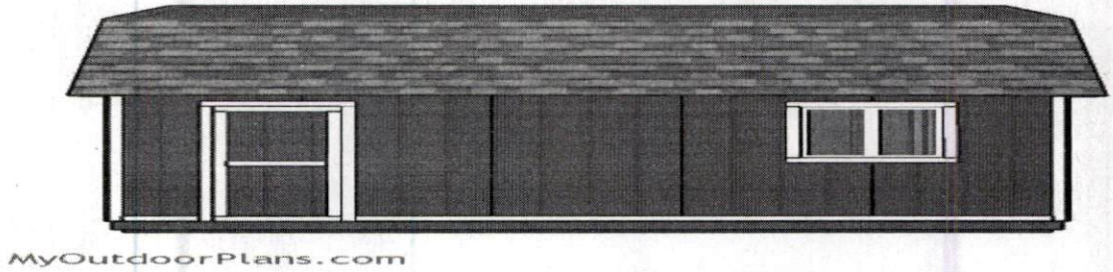
Fit the siding panels to the opposite side of the shed, as well. Make the cuts so you can fit the sheets around the window and door openings.

Finishing touches



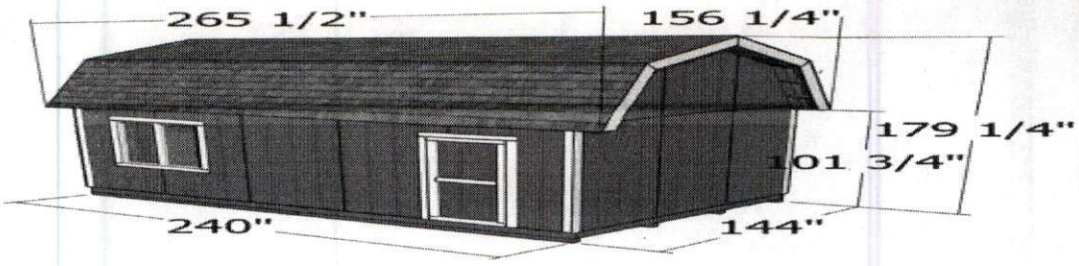
12×20 Gambrel Shed Plans

You should check PART 2 and PART 3 of the project, so you learn how to build the gambrel roof and the doors. Fitting the trims is also important, as they will give the shed character and an unique look.



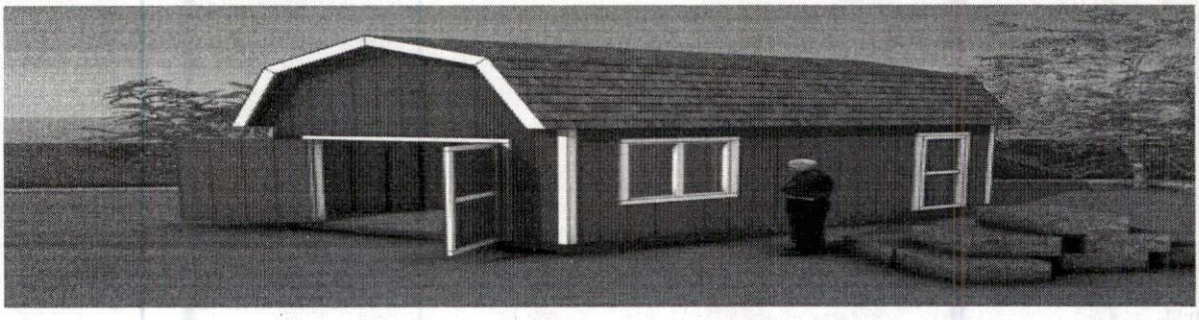
12×20 Gambrel Shed Plans – Side view

This large barn shed is ideal for a large property, as you can not only store a lot of items, but you can also use it as a workshop. Moreover, you can build a simple loft to the shed, so you can enhance the storage space even more.



12×20 Shed gambrel Plans – dimensions

Building a 12×20 gambrel shed with double front doors, a side door, and a side window will likely cost you between $3,500 and $5,000, depending on the materials and finishes you select. The gambrel roof, combined with multiple doors and a window, adds to the cost, but it's all worth it for the added space, accessibility, and natural light. This investment provides you with a spacious, versatile shed that's both functional and visually appealing.



How to build a 12×20 barn shed

Expect to spend about 5 to 7 weekends constructing your 12×20 gambrel shed with double front doors, a side door, and a side window. The complexity of the gambrel roof and the installation of additional doors and windows will take some extra time, but the process is straightforward if approached systematically. By the time you're done, you'll have a well-built shed that offers easy access, plenty of storage, and a touch of charm.

If you want to get PREMIUM PLANS for this project, in a PDF format, please press **GET PDF PLANS** button bellow. Thank you for the support.

This woodworking project was about **12×20 gambrel shed plans free**. If you want to see more outdoor plans, check out the rest of our step by step projects and follow the instructions to obtain a professional result.

Next >>

12×20 Gambrel Shed Roof Plans

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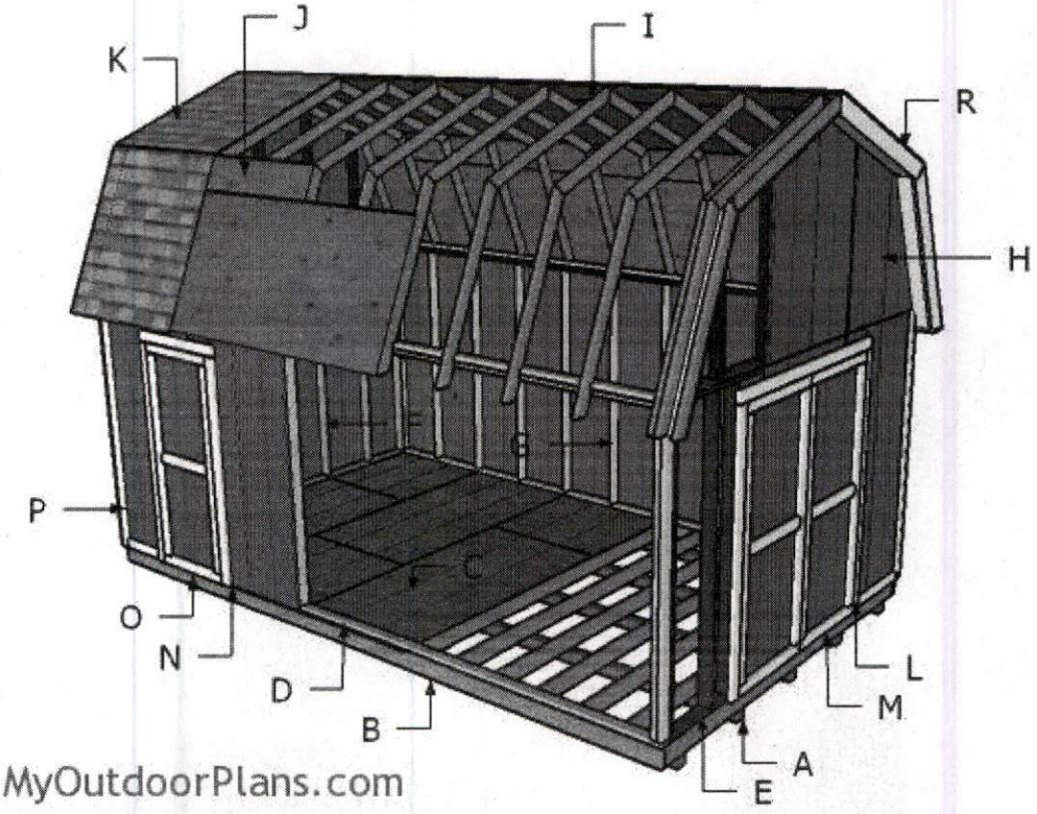
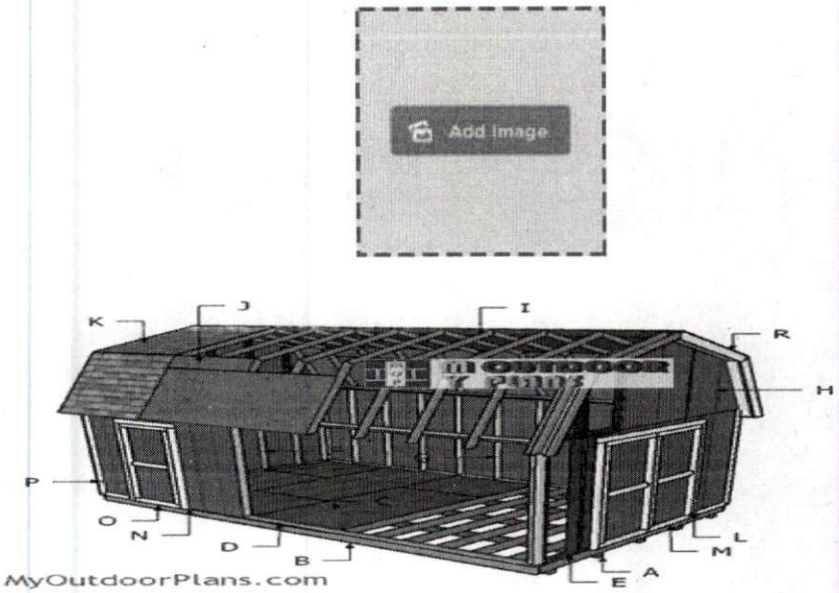


This step by step diy project is about **12×20 gambrel roof plans**. This is PART 2 of the shed project where I show you how to build the barn style roof for the storage shed. This shed has overhangs to the front, back and on the sides, so you protect the walls from water damage. Take a look over the rest of my **woodworking plans**, if you want to get more building inspiration.

When buying the lumber, you should select the planks with great care, making sure they are straight and without any visible flaws (cracks, knots, twists, decay). Investing in cedar or other weather resistant lumber is a good idea, as it will pay off on the long run. Use a spirit level to plumb and align the components, before inserting the galvanized screws, otherwise the project won't have a symmetrical look. If you have all the materials and tools required for the project, you could get the job done in about a day. See all my **Premium Plans HERE**.

Projects made from these plans



Building-a-12×20-barn-shed

Cut + Shopping Lists

- **H** – 4 pieces of T1-11 siding – 48″x62″ long, 2 pieces – 48″x72″ long **SIDING**
- **I** – 4 pieces of 2×4 lumber – 60″ long **11xTRUSS**
- **I** – 8 pieces of 2×4 lumber – 60″ long, 16 pieces – 3 3/4″ long **2xOVERHNAG**
- **J** – 8 pieces of 1×8 lumber – 60″ long, 8 pieces of 3/4″ plywood – 48″x96″ long, 4 pieces – 48″x48″ long, 8 pieces – 12″x96″ long, 4 pieces – 12″x48″ long **ROOF**
- **K** – 450 sq ft of tar paper, 450 sq ft of asphalt shingles **ROOFING**
- **R** – 8 pieces of 1×6 lumber – 60 1/4″ long, 4 pieces – 128″ long **TRIMS**

Tools

- Hammer, Tape measure, Framing square, Level
- Miter saw, Drill machinery, Screwdriver, Sander
- Safety Gloves, Safety Glasses

Time

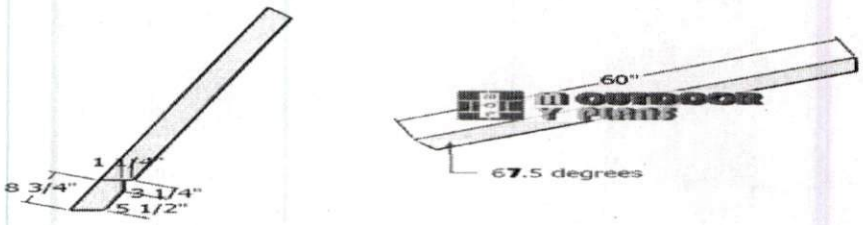
- One week

Related

- **PART 1: 12×20 Gambrel Shed Plans**

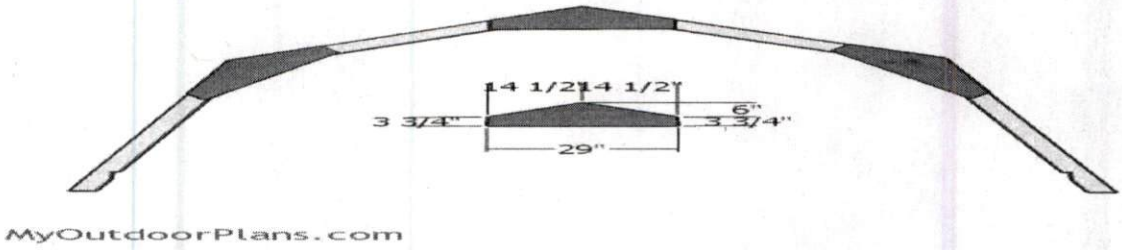
- **PART 2: 12×20 Gambrel Shed Roof Plans**
- **PART 3: Gambrel Shed Doors & Trims Plans**

How to build a 12×20 gambrel shed roof



Gambrel-rafters-12-ft

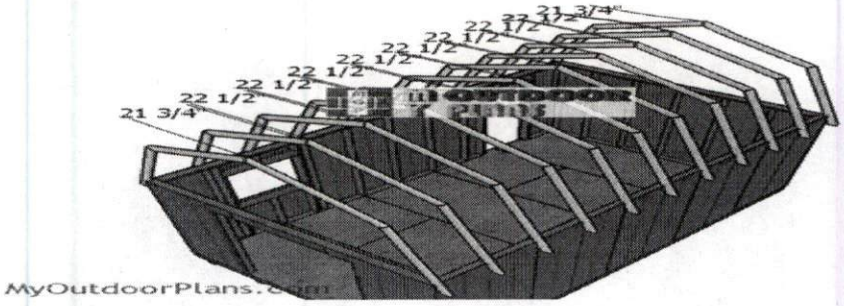
The first step of the shed roof project is to build the rafters for the trusses. In order to get a professional result, you need to use a miter saw and to make 22.5 degree cuts to both ends of the beams. AS you can notice in the diagram, you also need to make birdsmouth cuts to the rafters that go on the top of the side walls. Take accurate measurements before making the cuts.



Gussets

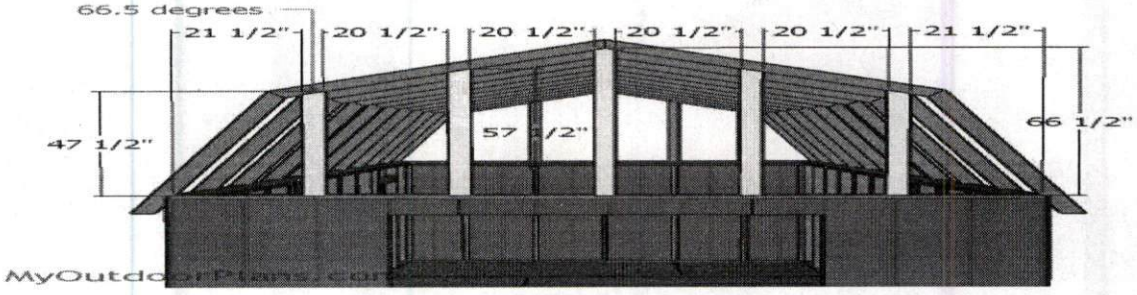
Lay the rafters on a level surface. You can make a simple jog so you speed up the process. Use 1/2″ plywood for the gussets and follow the instructions in the diagram for a professional result. Align the edges flush and insert 1 5/8″ screws to secure the trusses together tightly.

Fitting the trusses



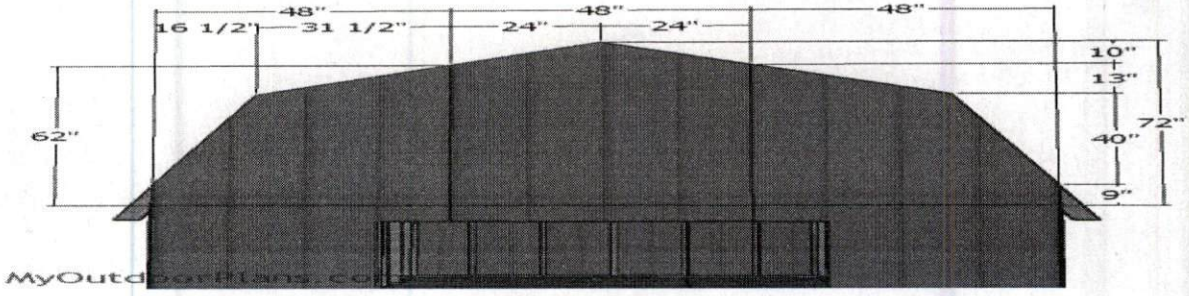
Fitting-the-trusses

Fit the trusses to the top of the shed frame, placing them every 24″ on center. Plumb the trusses with a spirit level and then secure them into place with rafter ties.



Fitting the gambrel end supports

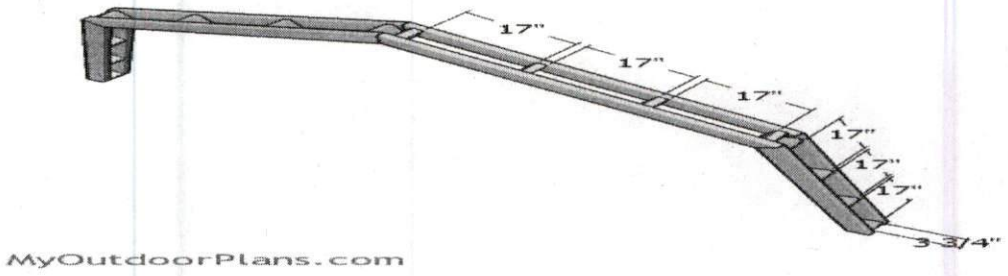
Use 2×4 lumber for the gambrel end supports. Make cuts to the top of the supports and then drill pocket holes at both ends. Fit them into place and then secure them into place with 2 1/2″ screws.



Gable end panels

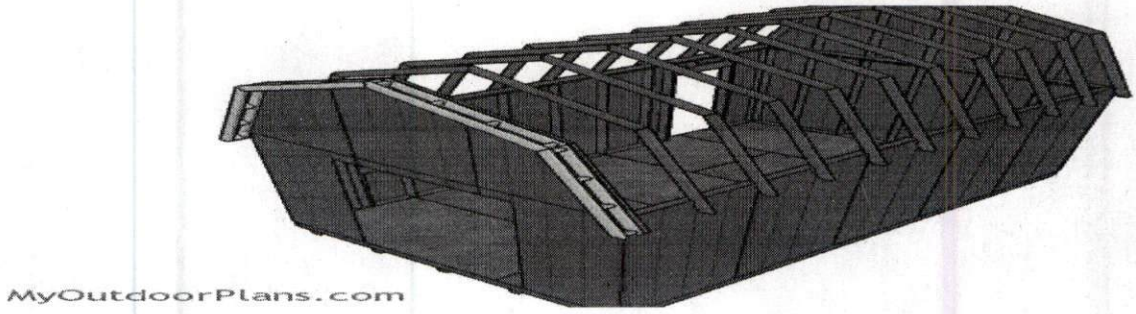
Cut the T1-11 siding panel at the size and shape highlighted in the diagram and then secure them into place with 6-8d nails. Insert the nails every 8″ along the framing.

Fitting the overhangs



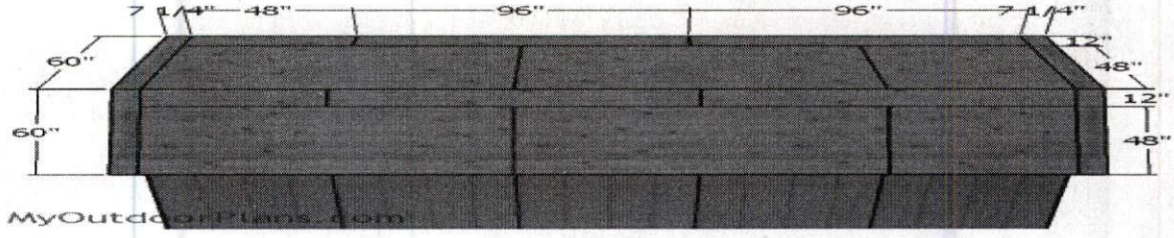
Building the overhangs

Build the overhangs for the front and the back of the shed from 2×4 lumber. Drill pilot holes through the rafters and insert 2 1/2″ screws into the blockings. You can adjust the size of the blockings to suit your needs.



Fitting the overhangs

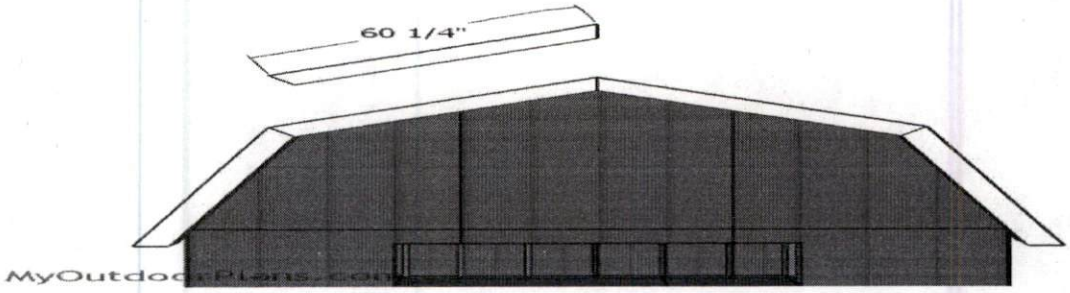
Fit the overhangs to the front and to the back of the shed. Align the edges flush. Drill pilot holes through the overhangs and insert 3 1/2″ screws to lock them into place tightly.



Fitting the roof sheets

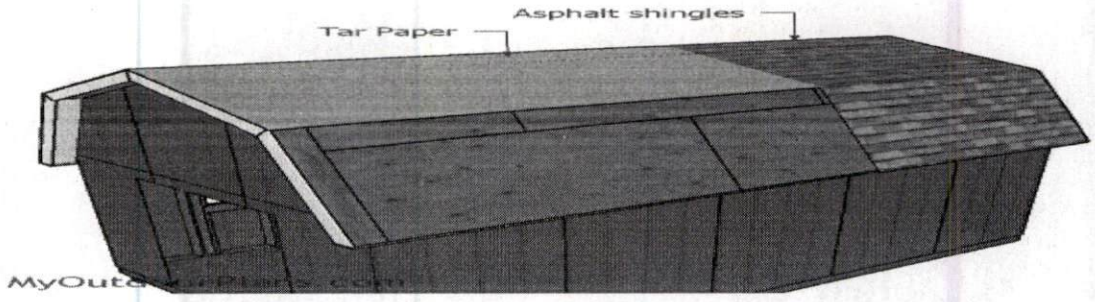
Cut and fit the 3/4″ plywood sheets to the roof of the gambrel shed. Align the edges with attention and insert 1 5/8″ screws every 8″ along the rafters, so you can lock them into place tightly. Leave no gaps between the sheets for a professional result.

Fitting the roof trims



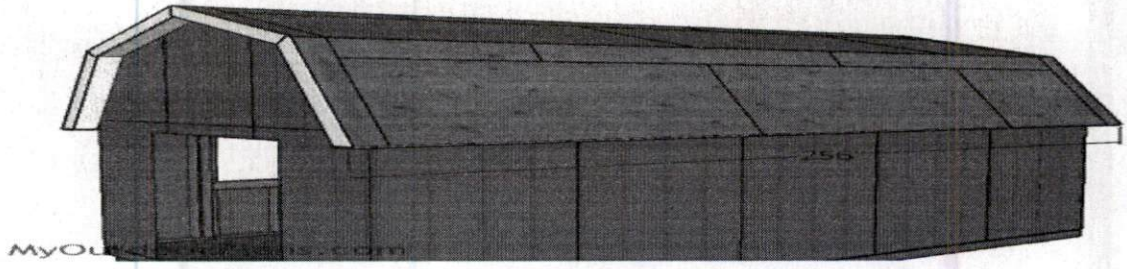
Fitting the front and back roof trims

Fit the 1×6 decorative trims to the front and to the back of the gambrel shed. Make the angle cuts and then secure them into place with 2″ nails.



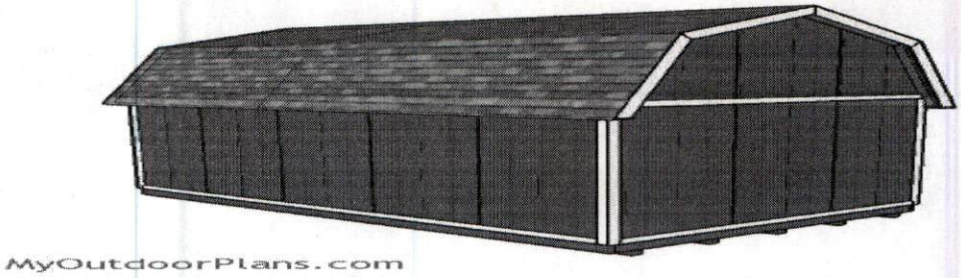
Fitting the roofing

Cover the roof with tar paper and then install the asphalt shingles. Make sure you also install the appropriate drip edges, so you can seal the shed roof. Read the manufacturer's instructions for a tight fit.



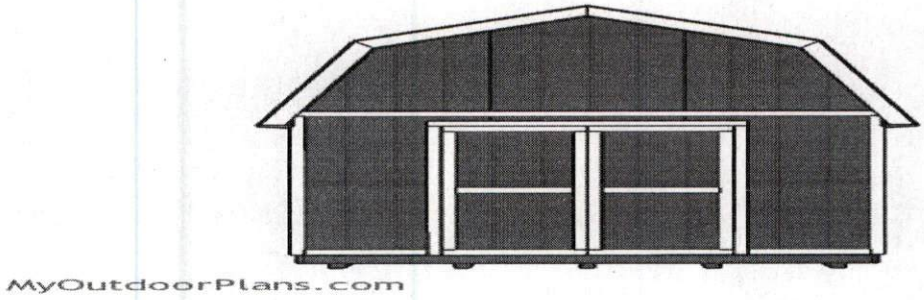
Side roof trims

Fit the 1×6 trims to the sides of the storage shed. Use 2″ brad nails to secure the trims into place tightly.



12×20 Gambrel Shed Plans – Back view

Make sure you take a look over PART 1 of the project for the floor and wall frame plans, and PART 3 for the door plans.



12×20 Gambrel Shed Plans – Front view

If you are here, I recommend you to take a look over the rest of the shed plans, as well, HERE.

This woodworking project was about **12×20 gambrel roof plans free**. If you want to see more outdoor plans, check out the rest of our step by step projects and follow the instructions to obtain a professional result.

<< Previous Next >>

Internet # 320203781 Model # 0420001-8 Store SKU # 1008016512

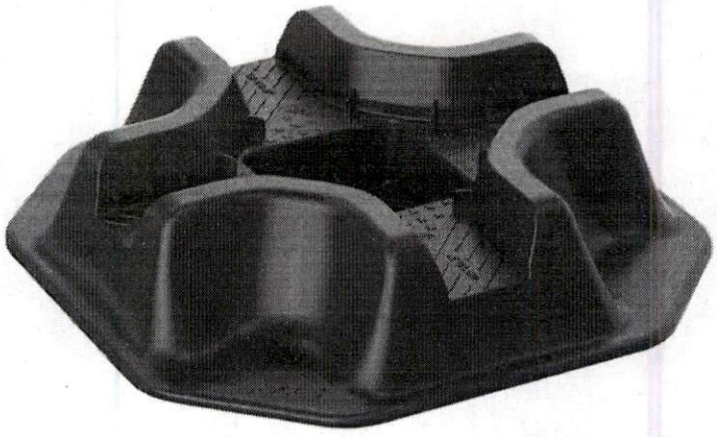
CAMO

15.75 in. x 15.75 in. x 3.5 in. Block Heavy-Duty Polyolefin Deck Block (8 Count)

★★★★½ (52) Questions & Answers (14)





Hover Image to Zoom

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$85.20

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Apply for a Home Depot Consumer Card

- LIGHTWEIGHT - replaces concrete deck blocks (2.16 lbs v 50 lbs)
- VERSATILE - accepts 4x4 and 6x6 posts and wood and metal joists
- EASY INSTALL - simple layout and manipulate upon installation
- View More Details

Pickup at Fuquay Varina Delivering to 27526

About This Product

CAMO BLOCK is a lightweight, heavy-duty alternative to concrete deck blocks. Gone are the days of taking multiple trips to the store-and breaking your back-to build a freestanding deck. Weighing only 2.16 lbs. but load-rated to support over 1800 lbs., CAMO BLOCK is an easy-to-carry deck floating foundation that also nests together for easy transport. Whether you're building a freestanding deck, walkway, shed, or other exterior structure, the versatile CAMO BLOCK is the right foundation for the job. BLOCK accepts 4 x 4 or 6x6 wood posts and 2 x 4, 2 x 6, or 2 x 8 wood joists or 2 in. metal joists. Best of all, BLOCK is precision-crafted, eliminating the need to alter BLOCK to fit your project. That means installation is as easy as placing your BLOCKS, setting your joists or posts, and building. CAMO BLOCK was designed to hold up to the harshest environments and is even cold-weather approved to resist frost heave. BLOCK is infused with UV protectant so it won't chip, crack, or corrode under sun, rain, cold, snow, and ice, and it's made from a Polyolefin material that also resists mold growth. Additionally, BLOCK was engineered with vents and drains that keep water away from the joists and posts, protecting them from sitting in pooled water, which can deteriorate the life of the support.

Highlights

- 18X lighter than concrete deck blocks (1 CAMO BLOCK weighs 2.16lbs)
- Accepts 4x4 posts, 6x6 posts, 2x4, 2x6, and 2x8 wood joists, and 2 in. metal joists
- BLOCKS nest together for easy transport in any vehicle and simple unloading onto your jobsite
- Easy to reposition during installation
- Designed and precision-molded to fit standard lumber specifications without any chipping out of slots
- Can be installed on any surface, including uneven ground with a little leveling
- For low profile decks 5-1/2 in. up to 5 ft.* *See local codes for details
- Load-rated to support over 1800lbs
- Made from Polyolefin which will not chip or crack, even in cold weather
- Sleek and sustainable BLOCK blends into landscaping and is UV-protected for added durability
- Vented to prevent water build up, rot, and mold
- Made from long-lasting and durable recycled material that can be recycled at end of life
- 30-year warranty
- Return Policy

Product Information

Internet # 320203781
Model # 0420001-8
Store SKU # 1008016512

Additional Resources

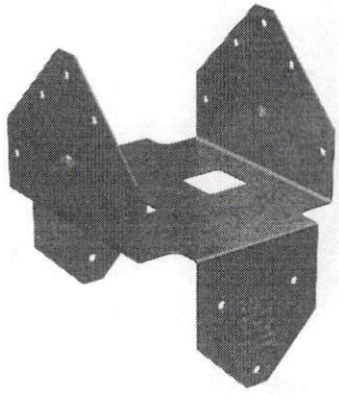
Shop All CAMO

From the Manufacturer

- Specification
- Product Brochure
- FAQ
- Warranty
- Installation Guide
- Return Policy





Simpson Strong-Tie BCS 3-in x 6-in G90 galvanized Wood to wood Cap

Item #3699578 | Model #BCS2-3/6

Shop Simpson Strong-Tie

4 2

$9.88

Feedback

Simpson Strong-Tie BCS 3-in x 6-in G90 galvanized Wood to wood Cap $9.88

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Shop Simpson Strong-Tie 4 2

BETTER TOGETHER

- Provides a positive connection for a post to a wood deck
- Stronger than angled nailing or screw fastening
- Reduces the chance of the post splitting and eliminates nailing into end grain
- Not recommended for non top-supported installations (such as fences or unbraced carports)
- Nominal size: Double 3x beam, 6x post
- Made from 18-gauge steel
- Galvanized (G90) for extra corrosion resistance
- Install with 16d common nails

Installation Manual
PDF

Instructions/Assembly
PDF

Warranty Guide
PDF

Product Features

Specifications

General			
Finish	G90 galvanized	**Series Name**	BCS
Manufacturer Color/Finish	Zinc Galvanized, G90	**Type**	Cap

Dimensions			
Actual Depth (Inches)	5.02	**Actual Width (Inches)**	5.655
Actual Weight (lbs.)	0.83	**Common Measurement (T x W)**	3-in x 6-in

Features			
Gauge	18	**Nails Required**	16D
Material	Steel	**Package Quantity**	1
Materials Connected	Wood to wood	**Stainable/Paintable**	No

Certifications			
CA Residents: Prop 65 Warning(s)	No		