

NORFAB 12' x 12' Bison

Materials Checklist

Norfab has taken great care to ensure all parts are of quality material and complete. Please check the unit over carefully. Should you experience any problems or have any questions, **DO NOT CALL THE STORE**, contact NorFab immediately at 1-800-465-2918.

Side wall

- 14 - 65" long 2x4 side wall studs
- 4 - 96" long 2x4 plates (2 top, 2 bottom)
- 4 - 48" long 2x4 plates (2 top, 2 bottom)
- 9 - 48"x72" EZ panel side wall sheathing

Rear wall

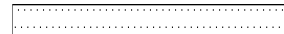
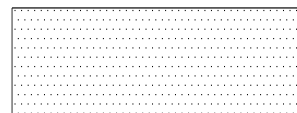
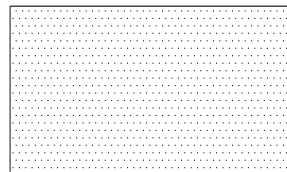
- 5 - 72" long rear wall base studs (B1,B2,B3)
- 1 - 65-11/16" back stud (B1)
- 2 - 60-13/16" back studs (B2)
- 2 - 50 5/8" back studs (B3)
- 10 - 3-1/2"x18" plywood stud gussets

Front wall

- 1 - 102" long 2x6 door header 2-ply
- 2 - 79" long 2x4 cripple studs 2-ply
- 1 - 53-3/16" front stud (F1)
- 2 - 48-5/16" front studs (F2)
- 2 - 38-1/8" front studs (F3)
- 2 - 72" long front wall base stud (F4)
- 2 - 42 9/16" front studs (F4)

Roof

- 14 - Rafters
- 10 - Plywood roof gussets
- 2 - Plywood roof gussets-notched
- 2 - 9"x96" OSB roof sheathing (roof section A)
- 2 - 9"x48" OSB roof sheathing (roof section A)
- 2 - 48"x96" OSB roof sheathing (roof section B)
- 2 - 48"x48" OSB roof sheathing (roof section B)
- 2 - 23"x96" OSB roof sheathing (roof section B)
- 2 - 23"x48" OSB roof sheathing (roof section B)
- 2 - 48"x96" OSB roof sheathing (roof section C)
- 2 - 48"x96" OSB roof sheathing (roof section C)
- 2 - 13- 1/2" x 96" OSB Soffits
- 2 - 13- 1/2" x 48" OSB Soffits
- 2 - 1x6 x 96" Fascia board
- 2 - 1x6 x 48" Fascia board
- 4 - 1x6 x 48" Rafter Trim
- 4 - 1x6 x 71" Rafter Trim



4 - 1x6 x 9" Rafter Trim
4 - 1x3 x 70-3/4" Gable end Corner Trim
4 - 1x3 x 67-1/2" Side wall Corner Trim
2 - 1x3 x 20-3/4" Front wall siding Joint Trim
2 - 1x3 x 70-1/2" Rear wall siding Joint Trim
2 - 1x3 x 81" Door Trim
2 - 1x4 x 101" Door Header Trim
1 - 3-13/16"x96" Header Door Jamb
2 - 3-13/16"x78 1/4" Door Jamb
3" nails
2" nails

NORFAB 12' x 12' Bison Instruction Manual

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****Assemble Floor First****

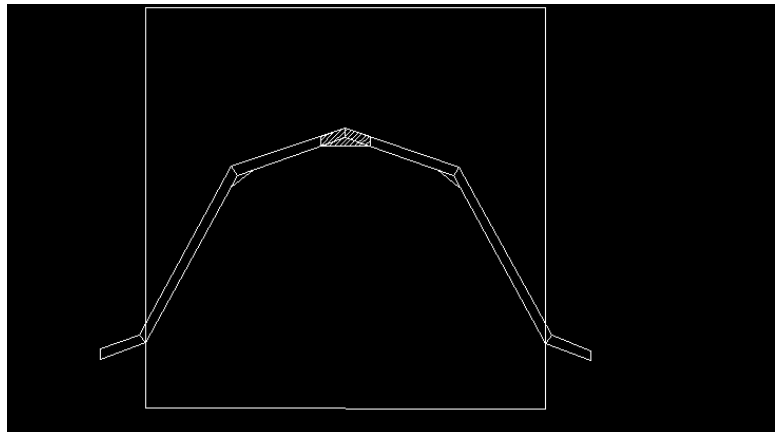
Note: Actual floor size is 12' wide (front) x 12'deep (sides).

To begin you must either assemble the optional 12'x12' floor package, build a 12' x 12' floor, or prepare a concrete slab. The shed is intended for light utility use only. Use of the shed for automobile storage or heavy applications will require a properly installed concrete floor or perimeter foundation and footing. If using the optional floor package please use the enclosed floor instructions for assembly. Ensure the floor is level, square and exactly 12'x12' outside.

Now that your floor is built it is time to un-package your shed and check that all the parts are accounted for. Use your materials list to accomplish this. We have marked the parts to help ease you through assembly.

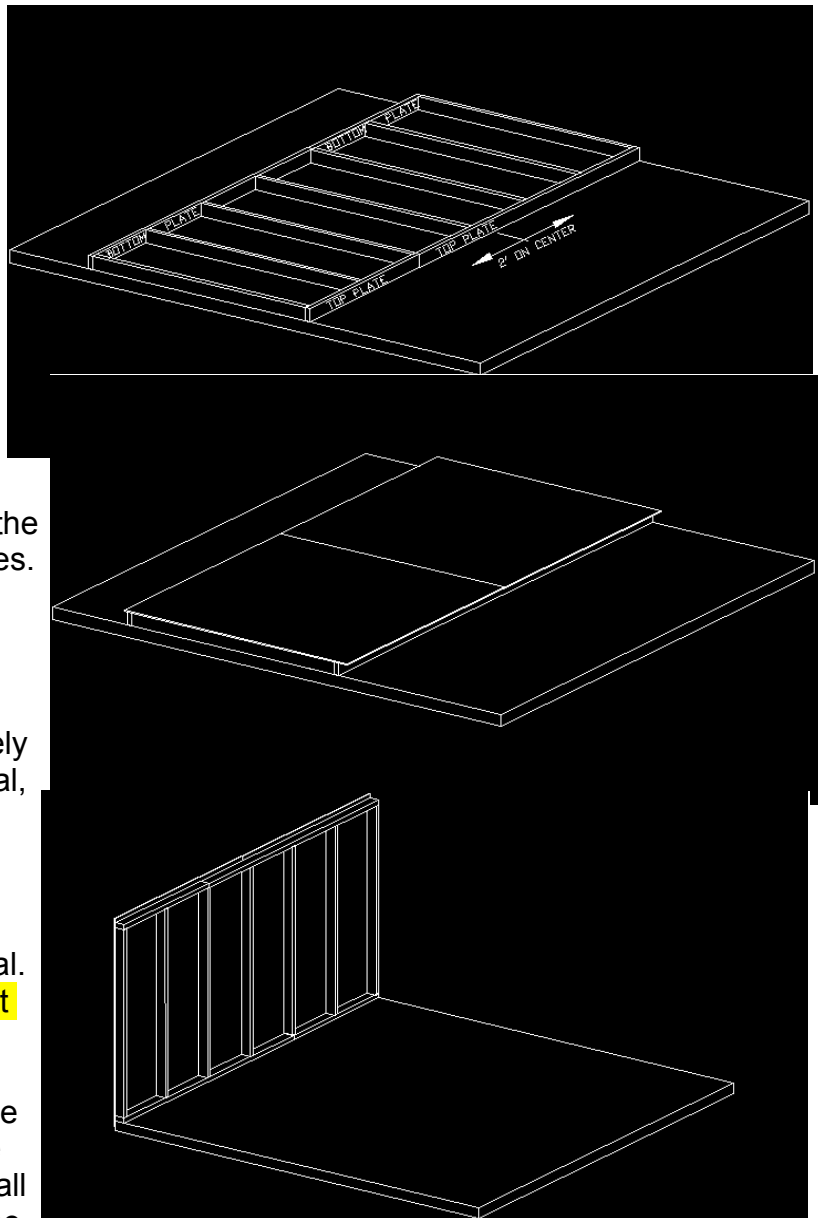
Roof Frame Assembly

The first step will be to connect pairs of the rafters together to create complete rafters. Using the floor as a level surface arrange two of the rafters as shown and nail together with the supplied roof gusset plates. Nail the gusset to the rafter with 2 rows of 2" nails spaced 2" on center using 40 nails total per rafter. The gusset is required on both sides of the roof frames except the front and rear rafters which only require one gusset. The front and rear rafters use the notched gusset on the inside of the shed as the EZ panel will be nailed to the outside. Carefully set the completed rafters aside until later in the installation process.



Side Wall Assembly

Find the side wall pieces and arrange to build one side wall. Use the floor as a level surface again. You will require two 96" plates, two 48" plates, and one half of the side wall studs included. Nail one 96" plate to one 48" plate to create a 120" plate, repeat so that you have two 120" plates, one top and one bottom. Arrange the plates and studs as shown with the center of the first stud 72" from either end of the plate. Position the following studs at 24" on center working out from the center with the last studs flush with the ends of the plates. Nail the plates to the studs using the 3" nails provided. Measure from corner to corner diagonally across the wall to square it up. The measurements should be the same and should be approximately 159-1/4". If the dimensions are not equal, adjust the wall until the measurements are equal. Position the EZ panel side wall panels so that there is 1-1/4" overhanging the top of the wall. Be careful to keep the panel grooves vertical. **The two 72" long EZ panels should meet at the middle of the center stud.** The panels should overhang the floor by 2-3/4" when the wall is standing. Stand the side wall up and nail the EZ panel to the floor with 2" nails. Make sure the side wall is plumb, (vertical) and nail the wall to the floor. Repeat this process for the other side wall. These walls should be temporarily braced to hold them secure and plumb by nailing one of the front wall studs or scrap lumber to the floor.

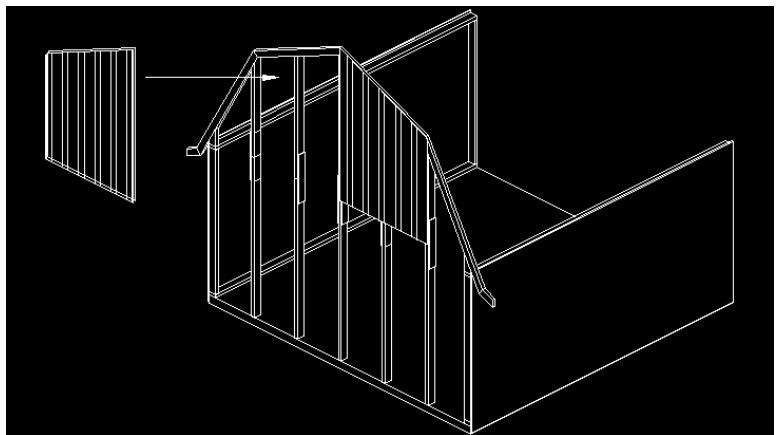
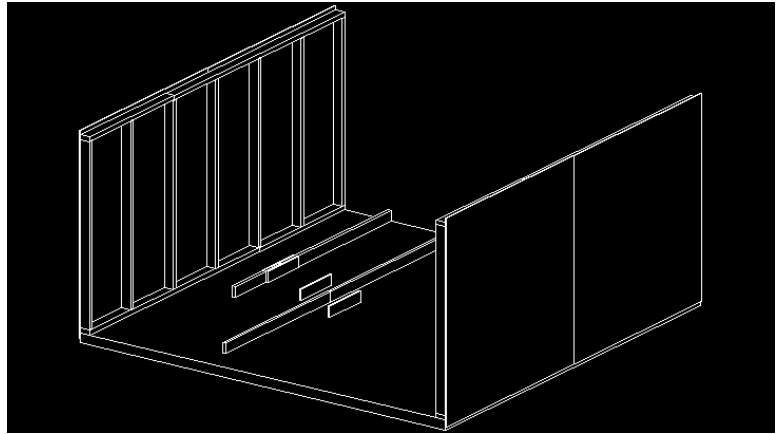


Back End Wall Framing

Next, gather the 72" back-wall studs marked B1, B2 and B3 as well as the 3-1/2"x18" gussets. The back wall studs will be made by connecting the B1, B2, and B3 studs together using the gussets supplied and 2" nails. See diagram. Place the studs marked B1 in line on the floor for level framing as shown. Nail the gusset, evenly spaced over stud joint, with 2" nails. Use two rows of four nails evenly spaced on both sides of the stud at both ends of the gusset. You should be using 32 nails per back wall stud. Once all the back wall studs are nailed together it is time to stand the first rafter.

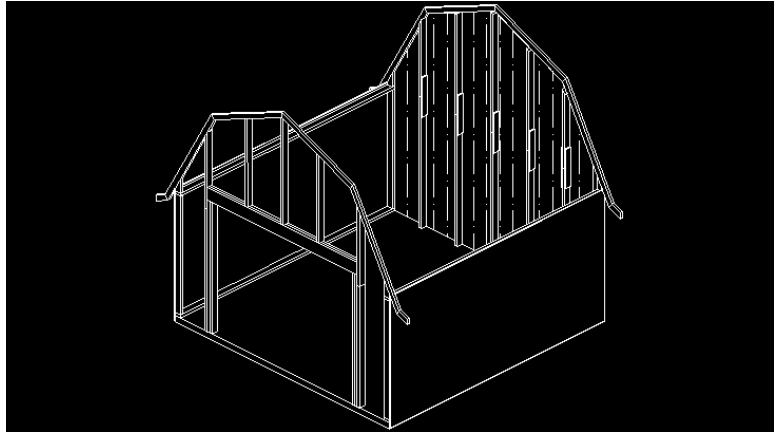
Choose one of the two rafters with only one connecting gusset and place the frame on the side walls with the gusset facing toward the inside of the shed. Place the rafter to be in line with the back of the shed. Be sure to temporarily brace the roof frame until back wall is sheathed and nailed securely. Stand the back wall stud marked B1 up and place in the notch of the gable gusset.

Place the bottom of B1 at the center of the floor. B1 should be vertical. Nail B1 to the floor and to the gable roof frame. Stand B2 and B3 24" on center from B1 working outward towards the corners. Nail the end wall studs to the floor and rafter and ensure they are vertical. Sheathing of the back wall will help to make the shed more rigid for the remaining framing and should be done next. Find the EZ panels marked for the back wall. Use 2" nails to attach the EZ panel to the back wall studs, rear rafter and ends of the side walls. To ensure the panels line up, start at the top center and nail on the first two panels working down and out.



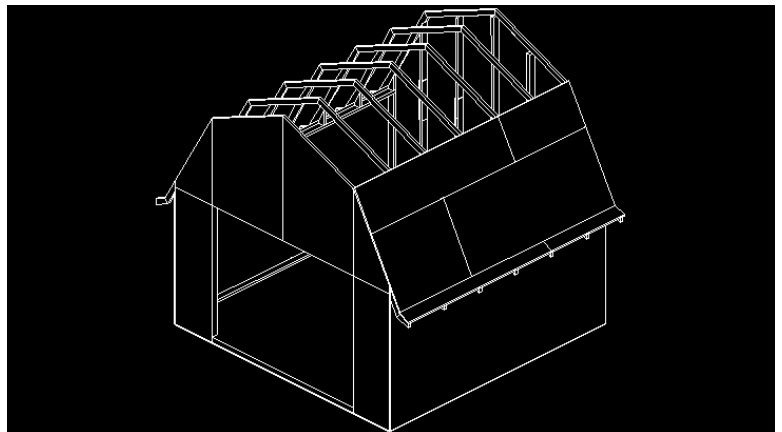
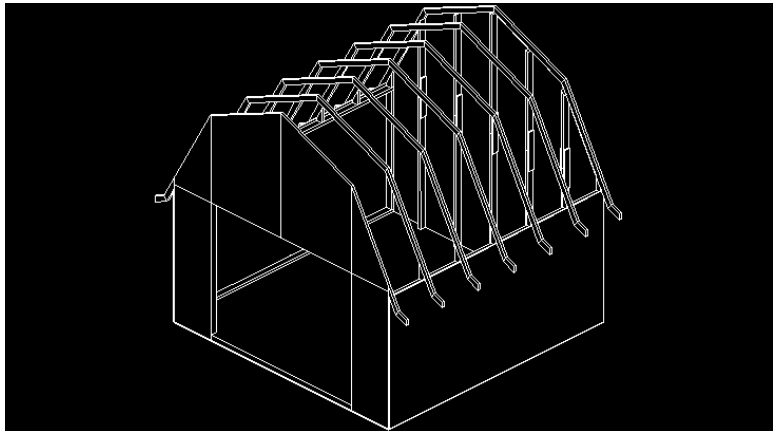
Front End Wall Framing

Measure in from the front corners of the floor 2" and mark clearly on the floor. This will be the inside edge location of the cripple studs provided. There should be 96" between these marks where the cripple studs are to be placed. Nail the 72" long F4 stud to the face of the cripple studs and lay them down on the floor near the markings you have just made. Place the other rafter with the gable gusset towards the inside of the shed at the front end of the side wall. Be sure to temporarily brace the roof frame until front wall is nailed and sheathed securely. Stand up the cripple, at the marks made earlier and nail to the floor. The 42 9/16" section of the F4 stud can then be nailed to the roof frame and the trimmer studs. The headers can then be placed on the trimmer studs and the F4 stud can be nailed to the header. Place the F1 stud in the notch of the gusset and nail to the rafter and the header. Continue working outward for the F2, and F3 studs. Installing the EZ panel on the front wall follows the same pattern as the back wall and should be done at this time.



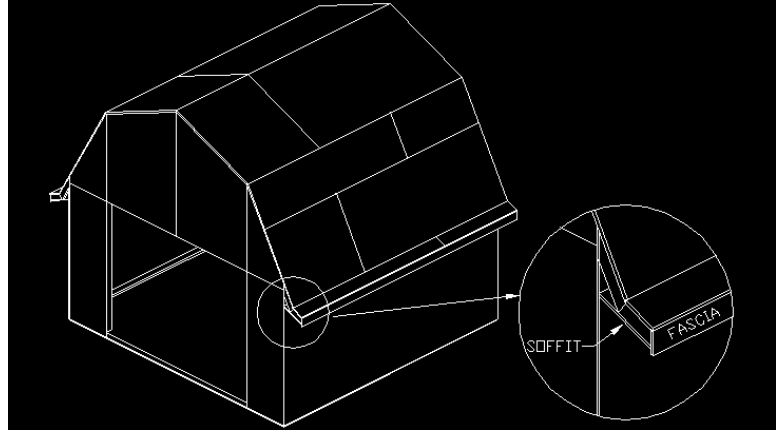
Roof Framing Installation

Place the remaining rafters on the side walls directly over the side wall studs. Temporarily brace the rafters until the roof sheathing is on and nailed securely. Nail the roof sheathing with 2" nails every 6". Locate the 9" roof sheathing. One 96" and one 48" piece per side of shed is required. Nail the 96" piece to the frame using 2" nails starting at the front. The piece should overhang the end of the overhang of the frame and be flush with the front edge of the front of the shed. The 48" piece finishes the overhang section, repeat for the other side. Next the 48"x96" and 48"x48" pieces are applied in the same manner but start with the 48"x48" piece and end with the 48"x96" piece. The next row, 23" wide sheathing, finishes the steep section of roof and is applied in the same manner alternating the long piece and short piece on the roof. Lastly the top of the roof is sheathed and again the location of the long and short pieces are alternated.

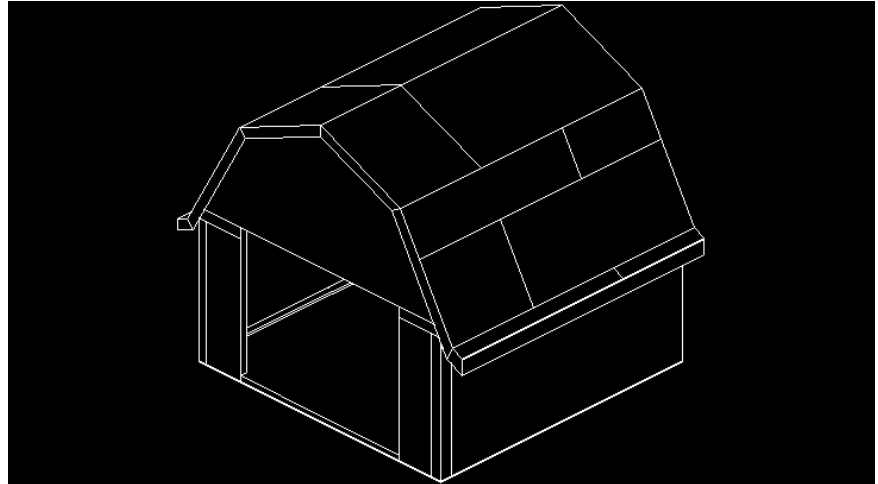


Soffit, Fascia, and Trim

The soffit is applied in the same fashion as the 9" piece of roof sheathing but applied to the underside of the overhang. Butt the 13-1/2" soffit tight up to the rafter and tight to the side wall EZ panel. Nail the soffit to the underside of the roof frame using 2" nails. Repeat for both sides of the shed.



The fascia boards are nailed with 2" nails to the end of the overhang and are butted up tight to the underside of the overhanging roof sheathing. Install the rafter trim with 2" nails on each gable end. Next the door header jamb trim should be installed followed by the side door jamb trim. Finally the corner boards and the siding joint boards are nailed in place.



Enjoy your new NORFAB shed!

Customer Service Hotline 1-800-465-2918
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