12X16
GARDEN SHED

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MATERIALS LIST	PIECES
4x4 pressure treated lumber - 16 ft long	4 pieces
3/4" pressure treated plywood - 4'x8'	6 pieces
2x6 pressure treated lumber - 16 ft long	2 pieces
2x6 pressure treated lumber - 12 ft long	13 pieces
2x4 lumber - 16 ft long	7 pieces
2x4 lumber - 12 ft long	18 pieces
2x4 lumber - 8 ft long	110 pieces
2x4 lumber - 10 ft long	1 piece
2x6 lumber - 8 ft long	3 pieces
1x6 lumber - 8 ft long	4 pieces
1x6 lumber - 10 ft long	4 pieces
5/8" T1-11 siding 4'x8'	18 pieces
1/2" plywood 4'x8'	8 pieces
Tar paper & Asphalt shingles	380 sq ft
2 1/2" screws	100 piece
1 5/8" screws	250 pieces
3 1/2" screws / nails	500 pieces
6d nails	500 pieces
Rafter ties	40 pieces
Wood glue	1 piece
Stain / Paint	1 piece
Shed Door Hinge	9 pieces
Shed Door Latch	2 pieces
Shed Door Handles	3 pieces
36"x36" Window	1 piece

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CUT LIST	PIECES
A - Floor Frame - 2x6 lumber 16' long	2 pieces
A - Floor Frame - 2x6 lumber 141'' long	13 pieces
B - Skids - 4x4 lumber 16' long	4 pieces
C - Floor - 3/4'' plywood 4'x8'	5 pieces
C - Floor - 3/4'' plywood 4'x4'	2 pieces
D - Side Wall - 2x4 lumber 16' long	2 pieces
D - Side Wall - 2x4 lumber 187'' long	1 piece
D - Side Wall - 2x4 lumber 91 1/2''' long	15 pieces
E - Side Wall with door - 2x4 lumber 16' long	1 piece
E - Side Wall with door - 2x4 lumber 185'' long	1 piece
E - Side Wall with door - 2x4 lumber 24'' long	1 piece
E - Side Wall with door - 2x4 lumber 136'' long	1 piece
E - Side Wall with door - 2x4 lumber 91 1/2'' long	15 pieces
E - Side Wall with door - 2x4 lumber 82 1/2'' long	2 pieces
E - Side Wall with door - 2x4 lumber 3 1/2'' long	4 pieces
E - Side Wall with door - 2x4 lumber 15 1/2'' long	4 pieces
E - Side Wall with door - 2x4 lumber 29'' long	4 pieces
E - Side Wall with door - 2x4 lumber 36'' long	2 pieces
E - Side Wall with door - 2x6 lumber 39'' long	4 pieces
E - Side Wall with door - 2x6 lumber 35'' long	2 pieces
F - Back Wall - 2x4 lumber 137'' long	2 pieces
F - Back Wall - 2x4 lumber 12' long	1 piece
F - Back Wall - 2x4 lumber 91 1/2'' long	10 pieces
G - Front Wall - 2x4 lumber 12' long	1 piece
G - Front Wall - 2x4 lumber 137'' long	1 piece
G - Front Wall - 2x4 lumber 20 1/2 long	2 pieces
G - Front Wall - 2x4 lumber 91 1/2 long	6 pieces
G - Front Wall - 2x4 lumber 82 1/2 long	2 pieces
G - Front Wall - 2x4 lumber 3 1/2 long	10 pieces
G - Front Wall - 2x6 lumber 99'' long	2 pieces
G - Siding - 5/8'' T1-11 4'x8'	13 pieces
G - Siding - 5/8'' T1-11 4'x12''	1 piece
G - Siding - 5/8'' T1-11 4'x23 3/4''	4 pieces
G - Siding - 5/8'' T1-11 4'x33 5/8''	2 pieces
I - Rafters - 2x4 lumber 88'' long	26 pieces
I - Bottom Chord - 2x4 lumber 12' long	13 pieces

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CUT LIST	PIECES
I - Truss Support - 2x4 lumber 26 3/8'' long	13 pieces
I - Overhangs - 2x4 lumber 88'' long	8 pieces
I - Overhangs - 2x4 lumber 4 1/2'' long	28 pieces
J - Roof Sheets - 1/2'' plywood 4'x8'	4 pieces
J - Roof Sheets - 1/2'' plywood 8''x88''	4 pieces
J - Roof Sheets - 1/2'' plywood 40''x8'	2 pieces
J - Roof Sheets - 1/2'' plywood 40''x4'	4 pieces
K - Roof Trims - 1x6 lumber 89'' long	4 pieces
K - Roof Trims - 1x6 lumber 104'' long	4 pieces
L - Roofing - Tar paper & Asphalt shingles	380 sq ft
M - Door Jambs - 2x4 lumber 84'' long	4 pieces
M - Door Jambs - 2x4 lumber 103'' long	1 piece
M - Door Jambs - 2x4 lumber 39'' long	1 piece
N - Door - 2x4 lumber 77'' long	4 pieces
N - Door - 2x4 lumber 48'' long	4 pieces
N - Door - 2x4 lumber 41'' long	2 pieces
N - Door Panel - 5/8'' T1-11 siding 4'x7'	2 pieces
O - Door - 2x4 lumber 77'' long	2 pieces
O - Door - 2x4 lumber 32'' long	2 pieces
O - Door - 2x4 lumber 25'' long	1 piece

Tools

- Miter Saw
- Drill
- Orbital Sander
- Pocket Hole Jig
- Tape Measure, Pencil, Square, Brush
- Safety Glasses, Hearing Protection

Time

- 1 week

Cost Estimate

- $2000

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1

First, build the floor frame for the garden shed. Cut the components at the right dimensions. Lay the joists on a level surface. Drill pilot holes through the long joists and insert 3 1/2" screws into the regular joists. Place the joists every 16" on center. Measure the diagonals and check if the corners are square.

2

Fit the 4x4 skids under the floor frame, so you can lift it from the ground and protect the components from the moisture. Use rafter ties to secure the skids to the floor frame. Invest in pressure treated lumber for the skids.

Select the location for the shed and remove the vegetation layer. Level the surface thoroughly and them compact a 4" layer of gravel. this will help you by keeping the moisture away from the floor frame.

3

Use 3/4" pressure treated plywood for the floor of the shed. cut the sheets at the right dimensions and lay them to the frame. Align the edges, leave no gaps between the sheets and insert 1 5/8" screws to lock them into place. Insert the screws every 8" along the framing.

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Next, assemble the side wall frame. Cut all the components from 2x4 lumber. Lay the components on the shed floor and attach the studs to the plates, every 16" on center. Use 3 1/2" nails or screws, through the plates into the studs. If you use screws, drill pilot holes. Notice the double studs placed at both ends, with 1/2" plywood blockers between them.

Next, assemble the other side wall for the shed. Use the same techniques described above. Notice the window and the door openings, with the double studs and the double 2x6 headers. You can adjust the location and the size of the openings to suit your needs.

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6

Next, build the front wall for the garden shed. As you can see in the diagram, I have designed it with a 8 ft opening, so you can install double doors and have easy access inside the shed with larger objects. Notice the 2x6 double header. Measure the diagonals of the wall frame and make sure they are equal. In addition, check if the corners are square when installing the studs.

7

Make sure you build the header separately, by gluing 2x6s to a piece of 1/2" plywood. Add glue to the joinsts and insert 2 1/2" nails from both sides.

Use this technique for the rest of the headers in this plan (window, side door).

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Next, build the back wall frame for the shed. Cut the components at the right dimensions and lay them on the floor of the shed. Use 3 1/2" nails / screws to secure the studs to the plates. Notice the double top plates.

9

Lay the side walls to the floor of the shed. Align the edges flush and use a spirit level to plunb the side walls. Use temporarily braces to secure the side walls into place.

Use 3 1/2" nails or screws to secure the walls frames to the floor. Insert the nails / screws through the bottom plates.

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Next, attach the front and back wall frames to the floor of the shed. Make sure the edges are flush and then insert the 3 1/2" screws through the plates into the shed floor.
Lock the adjacent wall frames together with 3 1/2" screws.
Insert 3 1/2" screws through the top plates.

11

Use 5/8" T1-11 siding sheets for the exterior of the shed. Align the edges flush to the side walls of the shed, then insert 6d nails, every 8" along the framing.

Use a saw to make the cut outs for the window and door openings.

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12

Next, build rafters for the gable shed, using 2x4 lumber. Use a miter saw to make the angle cuts, that is the quickest and most accurate method to speed up the process.
Lay the components on a level surface and align the edges flush.

13

Use 1/2" plywood for the gussets. Mark the cut lines on the plywood and get the job done with a circular saw. Lay the gussets over the joints, as shown in the diagram.

Use 1 5/8" screws to secure the gussets into place. The gussets will reinforce the trusses. Alternatively, you can use strong tie plates over the joints, instead of the plywood gussets.

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14

Attach the trusses to the top of the shed frame. Plumb the trusses with a spirit level and lock them to the top plates of the side walls with rafter ties. Place the trusses every 16" on center.

15

Attach the 5/8" T1-11 siding sheets to the front and back of the shed. Align the edges flush and use 6d nails, every 8" along the framing, to lock them into place.

Use a saw to make the cuts around the double door opening, as well as to the gable panels.

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16

Build the overhangs for the front and back of the shed from 2x4 rafters and 2x4 blockings. You can adjust the size of the overhangs to suit your needs. Drill pilot holes through the rafters and insert 3 1/2" screws into the blockings.

17

Fit the overhangs to the front and back of the shed, as shown in the diagram. Align the edges flush, drill pilot holes and insert 3 1/2" screws to lock them into place.

18

Use 1/2" plywood sheets for the roof of the shed. Cut the sheets as shown in the diagram and then lay them to the roof structure. Leave no gaps between the sheets, drill pilot holes and insert 1 5/8" screws, every 8" along the trusses.

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19

Fit the 1×6 trims to the front and back of the roof. Make the angle cuts to the trims, using a miter saw. Insert 6d nails to secure the trims into place tightly.

20

Attach the 1x6 trims to the sides of the shed, as well.

21

Cover the roof of the shed with roofing felt, making sure the strips overlap at least 2". Secure the tar paper to the plywood sheets with roofing staples. In addition, cut a large piece for the top ridge. Install the asphalt shingles starting with bottom left toward the top of the shed. Read the manufacturer's instructions.

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22

Fit the 2×4 jambs around the double door opening. Align the edges flush, drill pilot holes and insert 3 1/2" screws to lock them into place tightly.

23

Use T1-11 siding for the door panel. Assemble the door frame from 2×4 lumber. Drill pocket holes and insert 2 1/2" screws to assemble the door frame.
Attach the panel to the door frame and insert 2" nails to lock them together tightly. Make sure you place the sheet so that you cover the pocket holes on the door frame

24

Fit the double doors to the opening and use hinges to secure them to the jambs. Install a latch to keep the doors locked.
You could also install a ramp and a door stop. This would help you have access to the interior with larger objects.

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25

Fit the door jambs around the side door opening. Align the edges flush, drill pilot holes and insert 3 1/2" screws to lock the jambs into place tightly.

26

Build the side door, using the same techniques described above.

27

Fit the door to the opening, align the edges and lock it to the jambs with hinges. Install a latch so you can lock the door. Alternatively, you can install a pre-hung door.
Install the 3'x3' window to the opening. Install decorative 1x4s around the door window (optional).

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You can fit 1x3 or 1x4 trims to the front and back of the shed. Also, you can build a nice ramp for the front of the shed, which will help if you need to have an easy access for large objects.

Last but not least, you need to take care of the finishing touches. Fill the holes with wood putty and smooth the surface with sandpaper. Apply a few coats of paint to protect the exterior of the shed from the elements.

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