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## Lattice Bower

*This romantic bower will become your own personal hideaway. Place it in a quiet corner of the yard, and it's perfect for early morning coffee or late afternoon lounging. Its frame is constructed of 2 x 4s, so this pretty is very sturdy.*



### Materials

- 140 linear feet of 2 x 4 pine
  - 12 linear feet of 1 x 2 pine
  - 35 linear feet of 1 x 4 pine
  - Three sheets of lattice, 4' x 8'
- \*pre-made lattice can be purchased at lumber supply outlets

## **Hardware**

- 200 2-1/2" screws
- 25 1-1/2" screws
- 200 1-1/2" 4d nails
- 14 3" lag bolts

## **Cutting List**

<b>Code</b>	<b>Description</b>	<b>Qty</b>	<b>Materials</b>	<b>Dimensions</b>
A	Vertical	6	2 x 4 pine	72" long
B	Horizontal Side	6	2 x 4 pine	21-1/2" long
C	Slats	19	2 x 4 pine	23-1/2" long
D	Side Panel	2	pre-made lattice	23" x 34-1/2"
E	Horizontal Back	3	2 x 4 pine	57" long
F	Back Panel	1	pre-made lattice	58-1/2" x 34-1/2"
G	Long Bench Supports	2	2 x 4 pine	64" long
H	Short Bench Supports	2	2 x 4 pine	24" long
I	Inner Supports	2	1 x 2 pine	61" long
J	Bench Slats	16	1 x 4 pine	24" long
K	Long Top Supports	2	2 x 4 pine	64" long
L	Short Top Supports	2	2 x 4 pine	24" long
M	Top Panel	1	pre-made lattice	62-1/2" x 25-1/2"

## ***Making the Sides***

1. Cut two verticals (A) from 2 x 4 pine, each measuring 72 inches long.
2. Cut three horizontal sides (B) from 2 x 4 pine, each measuring 21-1/2 inches long
3. Place the two verticals (A) on a level surface, wide face up 21-1/2 inches apart and parallel to each other. Fit the three horizontal sides (B) between the two verticals, spacing them as shown in *Figure 1*. The inside of the top two horizontal sides (B) will later be routed 3/4-inch deep to accommodate the lattice. Because of this, we need to avoid placing screws where they will interfere with the routing. Mark what will be the inside of the assembly, and avoid placing screws within 3/4-inch of that side. Then wipe glue on the meeting surfaces, clamp the assembly together securely, and toenail through each side of the horizontal sides (B) into the verticals (A) using two 2-1/2" screws on each joint.

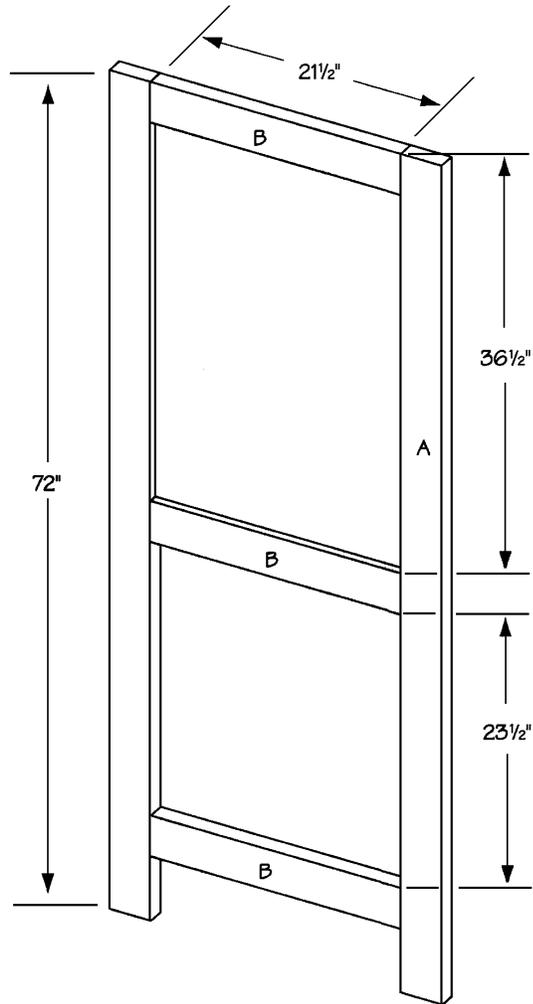


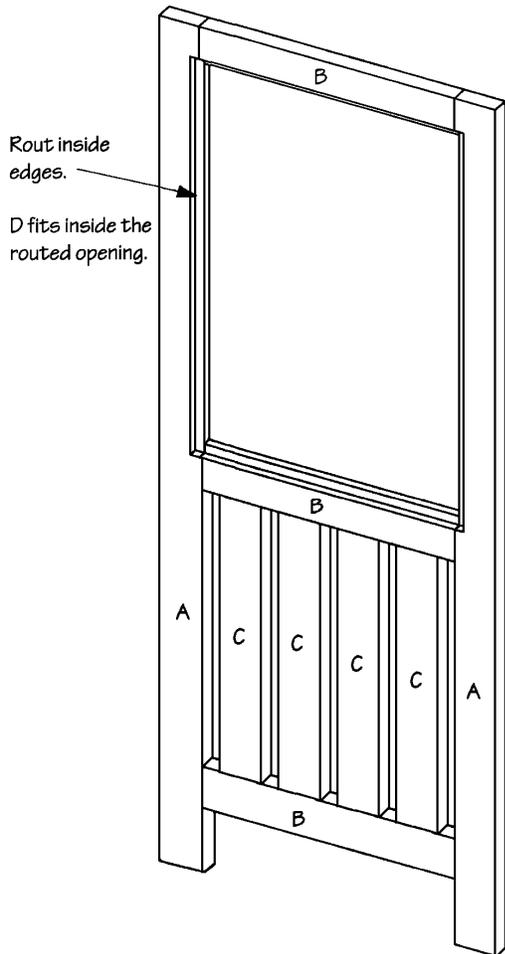
Figure 1

4. Cut four slats (C) from 2 x 4 pine, each measuring 23-1/2 inches long.
5. Fit the four slats (C) between the two lower horizontal sides (B), as shown in *Figure 2*. Toenail through each side of the slats (C) into each of the two lower horizontal sides (B), using two 2-1/2" screws on each joint.
6. The upper opening between the two upper horizontal side (B) and the two verticals (A) must be routed to accommodate the lattice panel. Place the assembly with the side you designated as the "inside" face up. Use a rabbet bit to rout the edges 3/4-inch deep and 3/4-inch wide where the lattice will fit, as shown in *Figure 2*.
7. Before cutting any of your lattice, carefully plan exactly how to position the pieces that you need to cut. Lattice is a little tricky, since it looks like is the same design whatever way you look it. But this is not true. Be sure that you cut it so that the over-and-under lattice panels are the same. Cut the lattice with the grain each time, or, when you place the pieces together, the differences will be obvious. Cut a side panel (D) from lattice, measuring 23 x 34-1/2 inches. Save any lattice slats that are left over from the cutting. These will be used as trim.
8. Apply glue to the meeting surfaces, and fit the side panel (D) into the routed opening on the upper section of the assembled side panel. Use 1-1/2-inch-long finishing nails to attach the lattice to the verticals (A) and horizontal sides (B)
9. Repeat Steps 1 through 8 to assemble another side.

### ***Making the Back***

1. Cut two verticals (A) from 2 x 4 pine, each measuring 72 inches long.
2. Cut three horizontal backs (E) from 2 x 4 pine, each measuring 57 inches long
3. Place the two verticals (A) on a level surface, wide face up, 57" apart and parallel to each other. Fit the three horizontal backs (E) between the two verticals (A), spacing them as shown in *Figure 1*. Here, too, the inside edges of the top two horizontal backs (E) will later be routed

3/4-inch deep to accommodate the lattice. Because of this, we need to avoid placing screws where they will interfere with the routing. Mark what will be the inside of the assembly, and avoid placing screws within 3/4-inch of that side. Then apply glue to the meeting surfaces, clamp the assembly together securely, and toenail through each side of the horizontal backs (E) into the verticals (A) using two 2-1/2"-long screw on each joint.



4. Cut eleven slats (C) from 2 x 4 pine, each measuring 23-1/2 inches long.
5. Fit the 11 slats (C) between the two lower horizontal backs (E) in the same manner you used to assembly the sides. Space the slats 1-1/2 inches apart. When you have the spacing correct, toenail through each side of the slats (C) into each of the two lower horizontal backs (E), using two 2-1/2-inch-long screws on each joint.
6. Now the upper opening between the two upper horizontal backs (E) and the two verticals (A) must be routed to accommodate the lattice panel. Place the assembly with the side you designated as the "inside" face up. Use a rabbet bit to rout the edges 3/4-inch deep and 3/4-inch wide where the lattice will fit.
7. Cut a back panel (F) from lattice, measuring 58-1/2 x 34-1/2 inches. Save the leftover lattice slats for the later trim.
8. Fit the back panel (F) into the routed opening on the upper section of the assembled back. Use 1-1/2" long finishing nails to attach the lattice to the verticals (A) and horizontal backs (E).

### ***Connecting the Sides and Back***

1. You will probably want to enlist the assistance of a helper for this next maneuver. If one is not available, use bar clamps to hold the pieces in place while you join them. Place the back assembly on a level work surface, with the "inside" surface facing up. Place one side assembly edge up, next to the back assembly. Pre-drill and countersink holes, and use three 3"-long lag bolts opposite each of the horizontal backs (E.)

2. Repeat the procedure to attach the other side assembly to the opposite side of the back assembly.

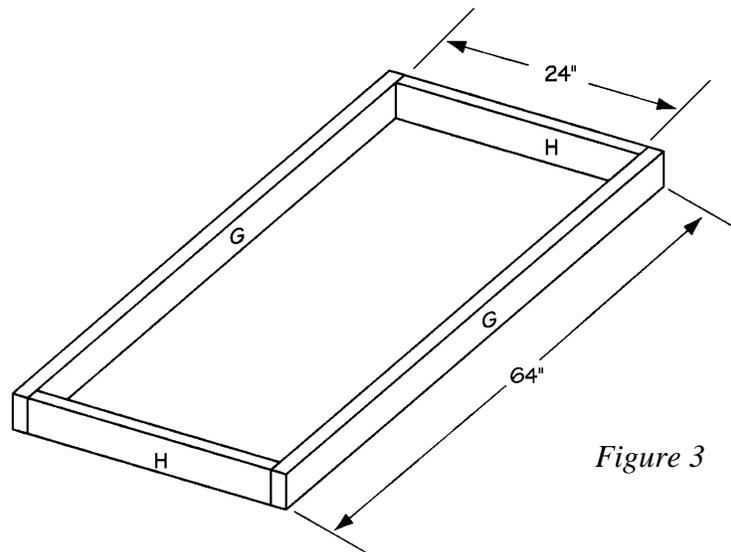


Figure 3

### ***Constructing the Bench***

1. Cut two long bench supports (G) from 2 x 4 pine, each measuring 64" long.
2. Cut two short bench supports (H) from 2 x 4 pine, each measuring 24" long.
3. Place the two long bench supports (G) on a level surface, parallel to each other, and 24 inches apart. Fit the two short bench supports (H) between the two long bench supports (G), as shown in *Figure 3*. Screw through the long bench supports (G) into the ends of the short bench supports (H). Use two 2-1/2"-long screws on each of the joints.
4. Cut two inner supports (I) from 1 x 2 pine, each measuring 61 inches long.
5. Apply glue to the meeting surfaces, and screw one inner support (I) to the inner side of one long bench support (G), 3/4-inch from the top edge, as shown in *Figure 4*. Use 1-1/2"-long screws about every 5 inches.
6. Repeat Step 5 to attach the other inner support (I) to the opposite long bench support (G).
7. Cut 16 bench slats (J) from 1 x 4 pine, each measuring 24 inches long.
8. Fit the 16 bench slats (J) over the two inner supports (I), leaving approximately 1/4-inch between bench slats (J), as shown in *Figure 5*. When you are satisfied with the placement, wipe glue on the meeting surfaces, and nail each slat in place. Nail through the bench slats (J) into the inner supports (I), using two 1-1/2-inch-long nails on each joint.
9. Place the back assembly with attached side assemblies on its back. Fit the bench assembly inside, 14 inches from the lower edge of the verticals (A). Apply glue to the meeting surfaces,

and pre-drill holes for 3-inch lag bolts through the front verticals into the ends of the long bench supports (G). Insert the lag bolts and tighten them securely.

10. Repeat the procedure to insert two more lag bolts through the verticals (A) into the ends of the remaining long bench supports (G).

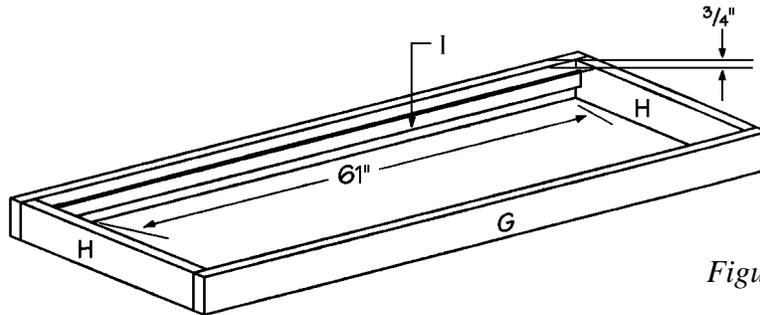


Figure 4

### ***Making the Top***

1. Cut two long top supports (K) from 2 x 4 pine, each measuring 64 inches long.
2. Cut two short top supports (L) from 2 x 4 pine, each measuring 24 inches long.
3. Place the two long top supports (K) on a level surface, parallel to each other and 24 inches apart, similar to the arrangement shown in *Figure 3*. Apply glue to the meeting surfaces, and fit the two short top supports (L) between the two long top supports (K). Screw through the long top supports (K) into the ends of the short top supports (L) using two 2-1/2"-long screws on each joint.
4. The top also contains a recessed lattice panel. To accommodate the panel, use a rabbet bit to rout the inner edges of one side of the top assembly, 3/4 x 3/4 inches.
5. Cut a top panel (M) from lattice, measuring 62-1/2 x 25-1/2 inches.
6. Apply glue to the meeting surfaces, and fit the top panel (M) into the routed groove in the top assembly. Nail through the top panel (M) into the long top supports (K) and short top supports (L) using 1-1/2" finishing nails.
7. Place the back assembly, with attached side and bench assemblies, on its back. Fit the top assembly inside, flush with the top edge of the verticals (A). Apply glue to the meeting surfaces, and pre-drill holes for 3-inch lag bolts through the front verticals into the ends of the long top supports (K). Insert the lag bolts and tighten them securely.
8. Repeat the procedure to insert two more lag bolts through the verticals (A) into the ends of the remaining long top supports (K).

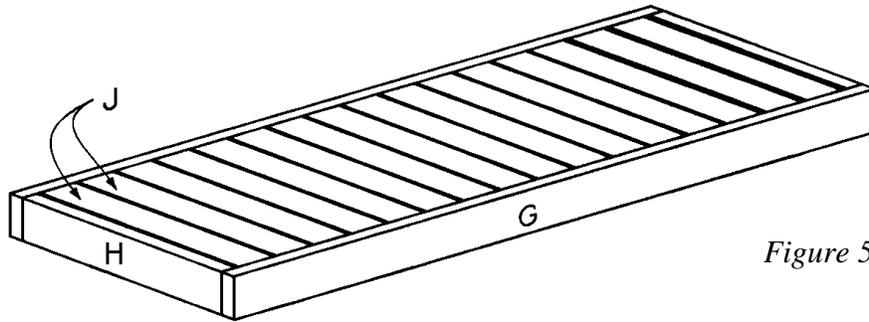


Figure 5

### ***Finishing***

1. Cover any exposed edges of the lattice panels with leftover slats from the unused lattice panels. To secure them, use glue and 1-1/2" nails spaced about every 5 inches.
2. Fill any cracks, crevices, or screw holes with wood filler, and thoroughly sand all surfaces of the completed project.
3. Seal and paint or stain your lattice bower the color of your choice.

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