Enjoying your backyard can be relaxing, but it can also get crowded. There's lawn furniture, gardening tools and supplies, camping gear, maybe even pool equipment. And don't forget the bicycles, tools, and other odds and ends that just can't find a parking place in the garage or basement. An outdoor storage facility is the answer to your bulky storage problems. When you build one with durable pressure-treated Southern Pine, you can count on long-lasting protection for all those items you need to stash away and secure.

This plan is adaptable to meet your storage needs. Three flooring options are specified, and an optional ramp can be built to help get a wheelbarrow or riding mower in or out more easily. Inside, the 2x4 stud wall will simplify the installation of shelves or hardware from which to hang tools and other items. The pressure-treated exterior siding can be painted, stained, or left to weather naturally to a silver-gray color.

When you complete this project, get back to relaxing in your outdoor living environment, knowing that everything is “in its place.”

**MATERIALS LIST**

To build this storage shed, you will need the following quantities of pressure-treated Southern Pine lumber:

<table>
<thead>
<tr>
<th>NUMBER OF PIECES</th>
<th>MATERIAL</th>
<th>LENGTH</th>
<th>SERVICE CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4x6</td>
<td>10'</td>
<td>Ground Contact</td>
</tr>
<tr>
<td>2</td>
<td>2x8</td>
<td>10'</td>
<td>Ground Contact</td>
</tr>
<tr>
<td>11</td>
<td>2x8</td>
<td>8'</td>
<td>Ground Contact</td>
</tr>
<tr>
<td>18</td>
<td>2x6</td>
<td>10'</td>
<td>Above Ground</td>
</tr>
<tr>
<td>49</td>
<td>2x4</td>
<td>8'</td>
<td>Above Ground</td>
</tr>
<tr>
<td>6</td>
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<td>Above Ground</td>
</tr>
<tr>
<td>1</td>
<td>1x6</td>
<td>10'</td>
<td>Above Ground</td>
</tr>
<tr>
<td>4</td>
<td>1x8</td>
<td>10'</td>
<td>Above Ground</td>
</tr>
<tr>
<td>2</td>
<td>1x4</td>
<td>8'</td>
<td>Above Ground</td>
</tr>
<tr>
<td>8</td>
<td>1x2</td>
<td>8'</td>
<td>Above Ground</td>
</tr>
</tbody>
</table>

Plus: 11 sheets, 4’x8’, pressure-treated plywood siding, pattern T-111, 1/2” thick.

**OTHER MATERIALS NEEDED**

- 6d, 8d, 10d, 12d hot-dip galvanized or stainless steel nails
  (See Fastener Advisory)
- 3 pairs of galvanized butt hinges, Stanley F1798P or similar
- Water-repellent sealer
- Construction adhesive for pressure-treated wood
- Door handles and closure hardware (lock & hasp) of your choice.

**Roofing Materials:** (to cover 120 sq.ft.):
- 15 lb. roofing felt
- 5 sheets, 4’x8’ sheathing plywood, 1/2” thick, pressure-treated
- Galvanized standard eave drips: 2-10’, 4-6’
- Roofing nails
- Fiberglass or asphalt shingles

**CONSTRUCTION OPTIONS**

This plan calls for a very heavy-duty 2x6 floor. It is designed to support heavy lawn equipment and large containers. If your storage needs are less demanding, consider a floor of 3/4” exterior grade plywood (three 4’x8’ sheets required), or a floor of pressure-treated 1x6 boards (eighteen 10’ lengths required).
CONSTRUCTION STEPS

1. Determine exact location of your storage shed. Position 4x6 skids at ground level parallel to the front and rear of the shed. Use stakes, line, and level to aid placement of skids.

2. Cut the two 10’ 2x8s to 9’-11” and four of the 8’ 2x8s to 7’-8” long. Build the 2x8 base frame with these members, using 10d nails and construction adhesive. Use a double 2x8 on each side. Refer to plan and detail section “D”.

3. Toe-nail base frame to 4x6 skids using 12d nails and construction adhesive. Check to be sure base is level and square.

4. Install seven 2x8 floor joists (cut 7’-8”) 16” on center, according to plan. Attach to base frame using 10d nails (end nailing), 12d nails (toe-nail), and construction adhesive. Check each joist/frame joint for square.

5. Attach a 10’ 2x4 (trimmed to 9’-11”) to top front and rear edge of base frame; use 10d nails. This becomes a plate for 2x4 stud wall.

6. Install 2x6 floor. Trim the eighteen 10’ 2x6s to 9’-11”. Attach to base frame and floor joists using 10d nails and construction adhesive.

7. Fabricate the rear 2x4 stud wall using 7’-71⁄2” lengths. Use a double 2x4 on each end, with studs 16” on center, plus an extra stud at the center. Nail studs to 9’-11” 2x4 top and bottom members using 10d nails. Refer to plan and detail section C. Attach finished wall frame to 2x4 plate with 10d nails and construction adhesive.

8. Fabricate the two side wall 2x4 frames using 7’-71⁄2” lengths 16” on center. Start at the center of the 7’-4” wall section and space studs as shown on the plan. Nail studs to 2x4 top and bottom members using 10d nails. Attach finished wall frame to ends of floor boards using 10d nails and construction adhesive.

9. Fabricate front wall 2x4 framing using 7’-71⁄2” lengths. End sections are double-end 2x4s with a center stud nailed to common 2x4s top and bottom. Finished wall frame is 2’-103⁄4” wide. Attach to 2x4 plate using 10d nails and construction adhesive. At the doors, the inside 2x4s are cut 6’-9” from top of base frame to support double 2x6 header (4’-3” long) over door opening. Use 10d nails for all framing assembly. Refer to Sections A & B for details.

10. Connect wall frame sections with 2x4 top plates. Use 7’-11” lengths at the sides and 9’-4” lengths front and rear; attach with 10d nails. Front and rear top plates become rafter supports. Wall framing is complete; check for square.

11. Cut 2x6 rafters from 12’ lengths. Refer to plan for roof slope and notch detail.

12. Cut two 2x4 supports for the 1x6 ridge board; make each support 2’-9” long. Notch one end to receive 2x6 end rafters. Toe-nail into place at center of side walls using 12d nails. Attach 1x6 ridge board using 8d nails and construction adhesive. Ridge board should extend 1” above 2x4 center support.

13. Install roof rafters 2’-0” on center. Nail to ridge board using 10d nails; toe-nail to rafter support using 12d nails. Framing is complete.


15. Attach 1x8 fascia to ends of rafters using 6d nails and construction adhesive.

16. Cover roof framing with 1/2” sheathing plywood; use 6d nails and construction adhesive. Add a layer of roofing felt. Attach galvanized eave drips to roof edges with roofing nails. Install shingles with roofing nails.

17. Complete trim work. Install corner trim to cover plywood siding joints, using 1x2 material. Add 1x4 trim to cover siding panel joint on side walls; trim 8” lengths to fit between corner trim. Cut 1x8 material for exterior gable trim, matching the profile of the rafters. Attach flush with edges of roofing and 1x8 fascia. Install all trim using 8d nails and construction adhesive.

18. Build the two doors. Cut two panels of treated siding 2’-0” wide and 6’-8” high. Attach the 2x4 frame as shown in the plan. Hinge side of 2x4 frame is flush with edge of panel. Recess top and door handle side of frame 1” from edge of siding panel. Recess bottom member of door frame 2” to clear floor boards when door is closed. Add diagonal 2x4 brace. Build frame using 10d nails and construction adhesive. Attach siding to frame using 6d nails and construction adhesive. Hang doors using the galvanized butt hinges and screws. Add your choice of door handles, plus some kind of lock and hasp for security, if desired.

19. Refer to the plan if you want to build the optional 3’x4’ ramp to help you move heavy tools and equipment in or out more easily. Cut a 2x8 diagonally for the sides; add a 4’ length to the ends, plus a 2x6 and 2x4 brace inside. Use 10d nails and construction adhesive to build this simple frame. Attach a treated siding plywood panel to the top using 6d nails and construction adhesive.

20. Now that construction is complete, apply a coat of water-repellent sealer to the floor and all exterior wood surfaces.
T-III TREATED PLYWOOD SIDING

1x2 CORNER TRIM

1x4 TRIM

T-III TREATED PLYWOOD SIDING

1x8 GABLE TRIM

1x4 FASCIA

GALVANIZED EAVE DRIP

FIBERGLASS OR ASPHALT SHINGLES

2 DOORS EACH 6'-8" HIGH x 2'-0" WIDE
2x4 FRAME WITH T-III TREATED PLYWOOD SIDING
ATTACH WITH GALVANIZED HINGES

AXONOMETRIC
2x6 RAFTERS 2' O.C.

2x4 STUDS 16" O.C.

2x8 FLOOR JOISTS 16" O.C.

2x8 FLOOR BOARDS

7'-11"

8'-0"

2'-10 3/4"

4'-0 1/2"

2'-10 3/4"

10'-0"

ROOF PLAN

SECTION A-A

FLOOR PLAN

Storage Shed
Project Plan #854 Sheet 6 of 6
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