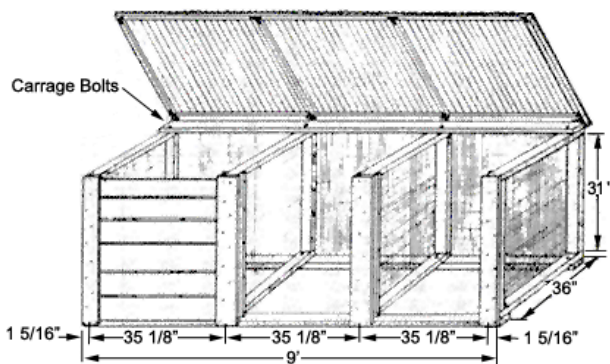


3 BIN SYSTEM CONSTRUCTION DETAILS



TOOLS

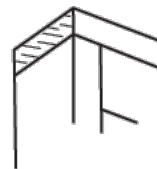
- Hand Saw Or Circular Power Saw
- Drill with 1/2" Bit
- Screwdriver
- Hammer
- Tin Snips
- Tape Measure
- Pencil
- 3/4" Socket or Open-Ended Wrench
- Carpenter's Square
- Safety Glasses & Ear Protection

MATERIALS: Recommend untreated wood, cedar, or composite lumber.

- [4]** 12 ft 2x4 OR [8] 6 ft 2x4
- [2]** 18 ft 2x4
- [2]** 16 ft 2x6
- [9]** 6 ft 1x6
- [22 ft]** 36" x 1/2" hardware cloth
- [12]** 1/2" x 4" carriage bolts
- [12 ea.]** Washers & nuts for bolts
- [3 lbs.]** 16d galvanized screws
- [1/2 lb.]** 8d galvanized casement screws
- [250]** Poultry wire staples or power stapler with 1" staples

BUILD THE DIVIDERS

1. From the [2] 12 ft OR [4] 6 ft 2x4s cut:
 - [2] 31" &
 - [2] 36" lengths.



2. Butt-Joint & screw the four pieces into a 35" x 36" square.
3. Repeat steps 1 & 2 to make three more squares.
4. Cut [4] 37" long sections from the hardware cloth.
5. Bend back the edges of the cloth 1".
6. Stretch the hardware cloth across each square frame.
7. Make sure the frames are squared, then staple the hardware cloth tightly into place every 4 inches around the edges.

SET UP THE DIVIDERS

8. Set up these dividers parallel to one another & 3 ft apart [image above].
9. Measure & mark the center of the top side of the two inside dividers.
10. Cut both 18 ft 2x4s into [4] 9ft boards.
11. Place two of the 9 ft 2x4s on top of the dividers & mark the center line of each divider on the 9 ft 2x4s.
12. With each divider lined up with marked center lines, the base board should be flush against outer edge of the divider.
13. Drill a 1/2" hole through each junction centered 1" in from the inside edge.



14. Secure base boards with carriage bolts, but DO NOT tighten yet.
15. Flip the bin & repeat Steps 11-14 for the TOP [using only [1] 9ft 2x4]. [the remaining 9ft 2x4 is used for the optional fiberglass lid]
16. Square the bin with the carpenter's square & tighten all bolts securely.
17. Using the same technique in Steps 5-7, securely fasten a 9 ft long piece of hardware cloth to the back of the bin.

PREPARE FRONT SLATS & RUNNERS

18. Cut four 36" long sections from the 2x6 to be used as slat runners for the front of the bin.
19. Rip cut [parallel to the grain] two of these boards to 4 3/4" wide & nail them securely to the front of the 2 OUTER dividers & baseboard, making them flush on the top & outside edges.
20. Center the remaining, full-width 2x6s on the front of the 2 CENTER dividers, flush with the top edge, & screw in securely.
21. To create the back of the runners, cut a 34" long piece from the remaining 2x6 board then rip cut it into 4 equal pieces.
22. Leaving a 1" gap for slats to slide into, screw these back runners directly into the divider behind front runners. Being sure they are parallel to front runners.
23. Cut the 1x6 boards into 31 1/4" long pieces to be used as slats [each board makes 2 slats].



OPTIONAL FIBERGLASS LID

The lid is more useful in areas w/ higher rainfall.

MATERIALS:

- [2] 6 ft 2x2s
- [1] 9 ft 2x2
- [1] 10 x 2 ft sheet of 4 oz clear corrugated fiberglass
- [1] 8 x 2 ft sheet of 4 oz clear corrugated fiberglass
- [3] 8 ft lengths of wiggle molding
- [40] Gasketed aluminum screws for corrugated fiberglass roofing
- [4] 3" zinc-plated hinges
- [8] Flat 4" corner braces with screws
- [4] Flat 3" T-braces with screws

CONSTRUCTION DETAILS

1. Cut four 32½" long sections from the 6 ft 2x2s.
2. Using the remaining 9 ft 2x4, the 9 ft 2x2, & the [4] 32½" 2x2s, lay boards into position on the ground as per lid illustration inside. Use the 9 ft 2x4 for the back [hinge side] of the lid.
3. Square boards w/carpenter's square.
4. Screw in corner braces [outer corners] & T-braces [inner corners] on inner side of the frame.
5. Center the frame [with the braces facing down] onto the bin structure & attach with hinges.
6. Cut wiggle molding to fit the 9 ft sections of the lid frame [not shown in illustration].
7. Pre-drill wiggle board with 1/8" drill bit & secure with 8d casement screws.
8. Cut five pieces of fiberglass to fit flush with front & back edges of the frame [approx. 35-36"]. Lay the pieces next to each other & overlay them at least one channel wide.

9. Pre-drill screw holes into fiberglass & wiggle molding every third hump.

10. Screw fiberglass to the frame.

USING THE BIN

Compost can be made without a bin, but the process is typically faster if piles are turned. This is easily accomplished using a moveable bin or series of bins like this 3 Bin System. Materials can be gathered / stored in the middle bin until it's full. Materials are then chopped, moistened, and mixed into an end bin. Periodically, piles are turned [moved to the next bin] and moistened, if needed, to ensure hot compost.

The unit pictured can be built for approximately \$130.

See a 3 Bin System in action!
A 3-Bin System is located in the Home Composting Demonstration Area at:

The Green Zone, N. 210 Havana



SPOKANE MASTER COMPOSTER
& RECYCLER PROGRAM
2900 S. Geiger Blvd.
Spokane, WA 99224

The Master Composter & Recycler Program

is sponsored by the Spokane County Regional Solid Waste System.

Master Composters & Recyclers

are volunteers who are working to promote the practice of home composting throughout Spokane County.



SPOKANE COUNTY

Recycling Hot Line 477-6800

www.spokanecountysolidwaste.org



Printed on recycled/recyclable paper with partial funding from a grant from the WA State Department of Ecology

COMPOST BINS

3 BIN SYSTEM



EASY TO MAKE!

A Stationary System

Use it to store and compost large amounts of materials

Construction requires basic carpentry skills and tools

INSIDE

Directions for building your own 3 Bin Compost System



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