GA-022 Compost sieve staging stand

Support a collection tub and the separately built sifter at a low working height with room to remove the tub.

Controlling dimensions: US inches and feet. Metric equivalents are references. Original editorial design; no physical build, animal trial or load certification is claimed.

Before marking and cutting

Measure the stated stock sections before cutting. Use the cut-list geometry, not scale measurements from the drawing.

US inch dimensions control; millimeter values are rounded conversions. Ordinary cut target ±1/16 in (1.6 mm); fit commercial accessories before boring attachment holes.

Use limits

Original bounded garden component, not an occupied structure.

No human standing, sitting, climbing, lifting or fall protection use. No stated safe working load.

Geometry and fastener quantities are editorially checked; no prototype build, wind test or crop trial is claimed.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
P01 Legs	4	24 × 3 1/2 × 1 1/2 in 609.6 × 88.9 × 38.1 mm	2 × 4 in board sound untreated wood
P02 Upper front and rear rails	2	26 × 3 1/2 × 1 1/2 in 660.4 × 88.9 × 38.1 mm	2 × 4 in board sound untreated wood
P03 Upper end rails	2	18 × 3 1/2 × 1 1/2 in 457.2 × 88.9 × 38.1 mm	2 × 4 in board sound untreated wood
P04 Tub shelf slats	3	23 × 3 1/2 × 3/4 in 584.2 × 88.9 × 19.05 mm	1 × 4 in board sound untreated cedar or other durable untreated wood
P05 Shelf cleats	2	18 × 1 1/2 × 1 1/2 in 457.2 × 38.1 × 38.1 mm	2 × 2 in board sound untreated wood

Hardware and consumables

32 #9 × 3 in exterior screws for upper rails, 4 per rail/post crossing

16 #9 × 3 in screws for shelf cleats, 4 per cleat/post crossing

12 #8 × 1-1/2 in screws for shelf slats

4 short angle braces with compatible screws selected to prevent frame racking

Tools

Tape measure and steel rule; Pencil, square and clamps; Saw suited to the stated stock; eye and hearing protection; Drill/driver, countersink and bits matched to fasteners; Sandpaper and edge file; gloves when handling cut mesh

Primary context and design record

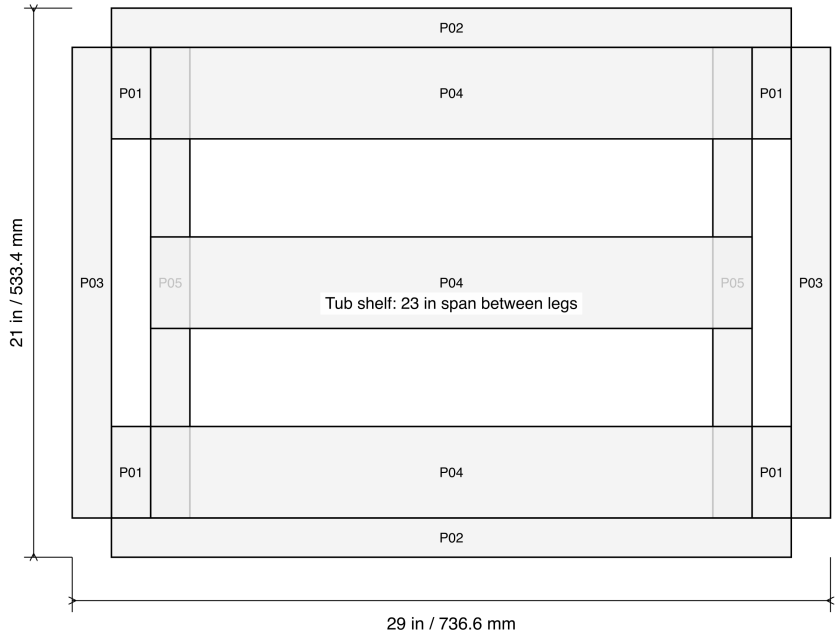
Context references; not design endorsements or certifications.

E05 · Managing and composting horse manure · University of Minnesota Extension · https://extension.umn.edu/agriculture/animals-and-livestock/livestock-operations/managing-and-composting-horse-manure

Assembly and first checks

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PLAN — looking down; rear at top; controlling dimensions in inches



Part IDs refer to the finished cut list. Shapes are not load-rated. Read assembly before cutting.

Notches, holes, fittings and operating angles: see numbered steps and geometric annotations.

Original editorial draft • B/W vector • not physically built or tested • no implied Extension endorsement

01 Plan the compost sieve staging stand for this result: Support a collection tub and the separately built sifter at a low working height with room to remove the tub. Confirm the design reference before cutting: Top rail surface 24 in (609.6 mm) above ground; shelf surface 8-3/4 in. In the drawings x runs left to right, y runs front to rear and z runs upward.

02 Verify the required stock before laying out these parts: 1 × 4 in board: actual 0.75 × 3.5 in (19.05 × 88.9 mm); 2 × 2 in board: actual 1.5 × 1.5 in (38.1 × 38.1 mm); 2 × 4 in board: actual 1.5 × 3.5 in (38.1 × 88.9 mm). Reject split or twisted wood and unknown salvage; thinner stock requires recalculating the joints, not simply using the listed lengths.

03 Cut and label the finished parts: 4 Legs 24 × 3.5 × 1.5 in (609.6 × 88.9 × 38.1 mm), mark P01; 2 Upper front and rear rails 26 × 3.5 × 1.5 in (660.4 × 88.9 × 38.1 mm), mark P02; 2 Upper end rails 18 × 3.5 × 1.5 in (457.2 × 88.9 × 38.1 mm), mark P03; 3 Tub shelf slats 23 × 3.5 × 0.75 in (584.2 × 88.9 × 19.05 mm), mark P04; 2 Shelf cleats 18 × 1.5 × 1.5 in (457.2 × 38.1 × 38.1 mm), mark P05. Keep saw kerf outside each finished line. Rip only where the finished width is narrower than the actual stock; use a suitable guide and target ±1/16 in (1.6 mm) for ordinary cuts. Dowel triples mean length × diameter × diameter, not square dowel stock.

04 Stand the four legs with outside envelope 26 × 18 in. Their 3-1/2 in faces run front to rear.

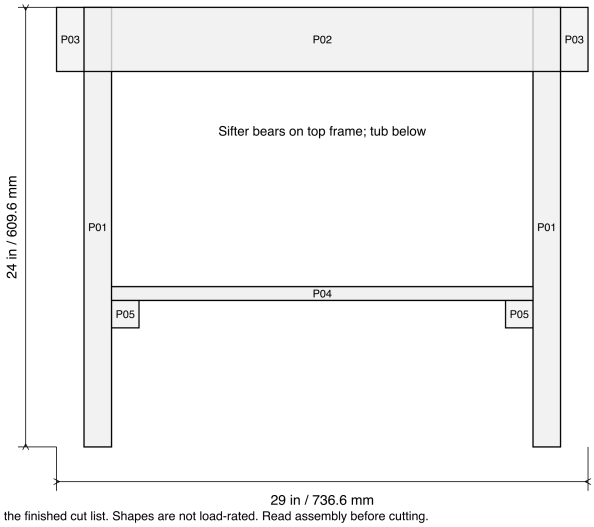
05 Attach the 26 in rails outside front and rear leg faces with their tops flush at z = 24 in. Use four 3 in screws at each rail/post crossing, staggered away from the end grain.

06 Attach the 18 in end rails outside the left and right leg faces, also top-flush. Offset their screw locations vertically so the corner screws cannot collide.

Complete the assembly

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FRONT — transparent assembly projection from y = 0; controlling dimensions in inches



Part IDs refer to the finished cut list. Shapes are not load-rated. Read assembly before cutting.

Notches, holes, fittings and operating angles: see numbered steps and geometric annotations.

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07 Clamp the frame square and add four angle braces beneath the top at the manufacturer-compatible fixing points. These prevent racking; they do not create a rated work platform.

08 Attach the two 18 in shelf cleats inside the left and right leg lines with upper faces at z = 8 in. Use four 3 in screws into each leg crossing.

09 Lay the three 23 in shelf slats between the left and right leg lines, x = 1-1/2 to 24-1/2 in, on the cleats at y = 0, 7-1/4 and 14-1/2 in. Fasten each slat with two 1-1/2 in screws at each cleat crossing. The legs remain clear of the slat ends.

10 Dry-fit the collection tub on the shelf and the sifter on the upper rails. Select a tub opening that catches all screened material and permits vertical removal.

11 Test empty on level firm ground. Then stage one small batch and confirm there is no rocking or tub interference; never climb, sit or use the stand as a lifting bench.

12 Complete the acceptance checks below before putting the assembly into service. Record any changed stock thickness, fastener or equipment fit on the project sheet. The published geometry has not been physically built or load-tested.

Acceptance and intermediate checks

Top rail surface 24 in (609.6 mm) above ground; shelf surface 8-3/4 in.

Top rails have continuous stable contact with the chosen sifter; tub removal unobstructed.

Diagonal bracing installed and all four feet contact the floor.

Operation

No load rating or powered shaker use. Sifter itself is a separate project and not counted twice.

Cleaning and maintenance

Brush off soil, dry beneath cover and retighten loose joints when empty.