PO-010 Open-bottom dust-bath boundary frame

Keep a dry loose bathing area from spreading into a walkway; the frame is not a treatment and supplies no medicinal dust recipe.

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

Read every step and identify the installed orientation. Make the component off-site with birds excluded.

Measure the actual receiving space, chosen commercial accessories and access route. Stop if the example does not fit; changing only one member can invalidate the assembly.

Reject split, warped, moldy or chemically contaminated stock. Keep exposed mesh cut ends and all sharp fasteners inaccessible to birds.

The drawing dimensions control; illustrations are not full-size templates. Allow a saw kerf between parts when laying out stock.

Use limits

No person may stand or sit on this component. No tested load rating is claimed.

A site-specific safe location and supervision are required; remove it if birds become trapped, peck damaged material, or cannot use their normal feed, water, shelter and escape routes.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
A Long boundary board	2	36 × 5 1/2 × 1 1/2 in 914.4 × 139.7 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.
B Between-board end	2	21 × 5 1/2 × 1 1/2 in 533.4 × 139.7 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.

Hardware and consumables

8 × Four-hole 90-degree wood-connection angle. Two per corner

32 × #8 corrosion-resistant exterior wood screw 1 1/4 in (31.75 mm). Four per angle. Use compatible coatings/metals and the maker's pilot-hole guidance; do not substitute drywall screws.

Tools

Tape measure, square and pencil; Saw appropriate to material and work supports; Drill/driver, countersink and pilot bits selected for the screws; Clamps, sanding block and eye/hearing protection; dust control appropriate to the material

Primary context and design record

Context references; not design endorsements or certifications.

S3 · Small-Scale Poultry Housing · Penn State Extension

S2 · Build a Clean Routine · USDA APHIS Defend the Flock

Assembly and first checks

The large drawing plates follow the instructions in this same PDF. Read the cut list and match part IDs before cutting. Print with automatic page orientation; use written dimensions rather than measuring the printed drawing.

01 Choose a sheltered dry level location away from feed and water. Confirm birds can step over a 5 1/2 in (139.7 mm) edge without crowding.

02 Cut A to 36 in from actual 1 1/2 × 5 1/2 in stock; cut B to 21 in from identical stock.

03 Sand the upper long edges and both upper corners of every board; remove splintering knots.

04 Place A parallel 24 in (609.6 mm) outside-to-outside. Fit B between A to create a 36 × 24 in outside rectangle.

05 Clamp the assembly and compare diagonals. The inside clear rectangle must measure 33 × 21 in (838.2 × 533.4 mm).

06 Fit two metal corner angles at each inside corner, one low and one high, avoiding an exposed top edge.

07 Use two 1 1/4 in screws in each angle leg, following the angle hole pattern; every screw enters a board face rather than a thin end.

08 Inspect the base with no fill. It must lie flat with no rocking and no accessible metal burrs.

09 Set the open-bottom frame onto the chosen clean, dry ground surface. Do not line it with a loose fabric or wire mesh that can catch feet.

10 Use only a suitable clean dry bathing substrate confirmed for the flock; do not add insecticide, ash, diatomaceous earth or a homemade veterinary remedy under this plan.

11 Observe access from all sides and keep the path to feed, water and shelter open. Remove the frame if birds avoid it or pile in a corner.

12 Empty wet/soiled material and lift the frame for drying; move or remove it during flooding, persistent dampness or when maintenance is neglected.

Acceptance and intermediate checks

Outside footprint is 36 × 24 in, inside footprint 33 × 21 in; A remains full width while B fits between.

Angles are below the rounded top and every screw is shorter than the 1 1/2 in board thickness.

Dry level placement; no sharp fastener, trapped liner or blocked walkway.

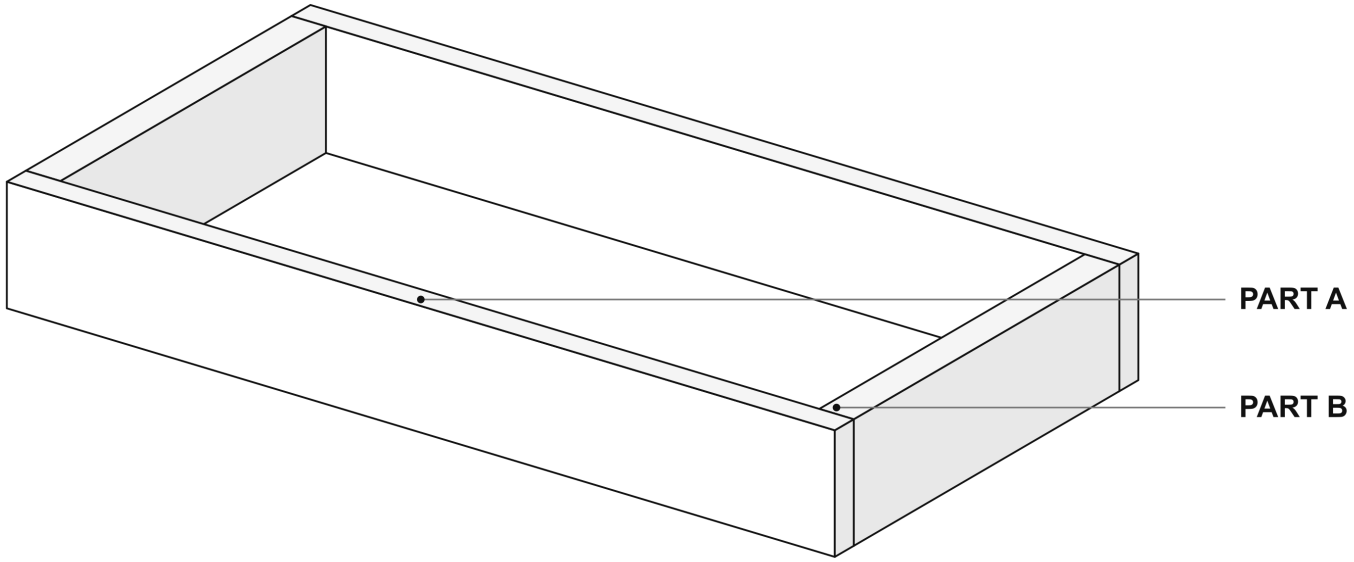
No parasite-control, medical or flock-capacity claim; actual bird use is observed.

Cleaning and maintenance

Inspect before each use for splits, loose joints, protruding points and trapped debris. Remove accumulated litter or manure promptly. When cleaning is needed, move birds away, remove debris first, wash and use only a suitable label-directed product if disinfection is indicated; let the item dry before return. Recheck the fit after seasonal wood movement. Replace cracked panels, rusted fasteners or frayed liners instead of concealing damage. Sand accessible edges to a small smooth radius. Use a removable washable contact liner where specified. Any optional coating must be suitable for the intended animal-equipment use and fully cured according to its label before installation. Porous wood is not represented as a disinfectable food-contact surface.

PO-010 | ASSEMBLY GEOMETRY

Open-bottom dust-bath boundary frame



Displayed schematic envelope (x × y × z):

36 in × 24 in × 5 1/2 in / 914.4 × 609.6 × 139.7 mm

Part letters match the cut list. Hardware/anchors are described in the steps.

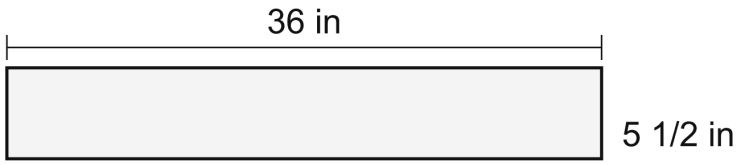
Original schematic • dimensions control • untested editorial draft

x = left/right; y = front/rear; z = height.

PO-010 | DIMENSIONED PARTS 1 OF 1

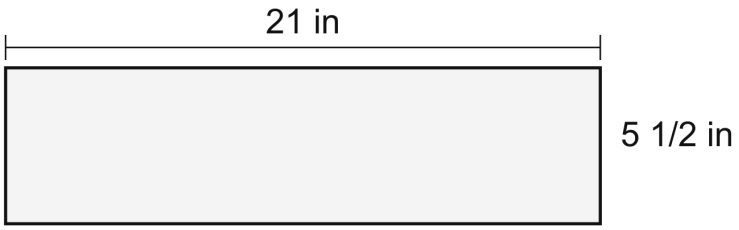
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Long boundary board ×2



Metric face: 914.4 × 139.7 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

B Between-board end ×2



Metric face: 533.4 × 139.7 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

Original B/W vector drawing • US inches control • unbuilt / untested