PO-021 Clean poultry-PPE floor cabinet

Keep clean dedicated protective clothing and supplies in a closable cabinet in a dry clean zone; not a sealed biosecurity barrier.

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 Full-height side	2	30 × 12 × 3/4 in 762 × 304.8 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
B Between-side top/bottom	2	18 1/2 × 12 × 3/4 in 469.9 × 304.8 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
C Back	1	20 × 30 × 1/4 in 508 × 762 × 6.35 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
D Fixed shelf	1	18 1/2 × 12 × 3/4 in 469.9 × 304.8 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
E Overlay door	1	29 3/4 × 19 3/4 × 1/2 in 755.65 × 501.65 × 12.7 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.

Hardware and consumables

24 × #8 corrosion-resistant exterior wood screw 2 in (50.8 mm). Carcass and shelf [N1]

14 × #8 corrosion-resistant exterior wood screw 1 in (25.4 mm). Back [N1]

3 × Overlay cabinet hinge with compatible short hardware. Select for 1/2 in leaf and actual overlay; follow maker instructions

1 × Pull and positive cabinet latch. Smooth-ended hardware only

2 × Substrate-appropriate anti-tip retainer. Cabinet remains floor-supported

N1 applies to every entry marked [N1]: 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.

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 Select a dry clean-side floor location, separated from chemical products and dirty boots. This wood cabinet is not waterproof, rodent-proof or suitable for sterilizing supplies.

02 Cut A sides to 30 × 12 in, B top/bottom and D shelf to 18 1/2 × 12 in (469.9 × 304.8 mm), all actual 3/4 in plywood.

03 Cut C back to 20 × 30 in from actual 1/4 in ply and E door to 29 3/4 × 19 3/4 in (755.7 × 501.7 mm) from actual 1/2 in ply.

04 Clamp B between A with bottom B at z = 0 and top B at z = 29 1/4 in. The carcass outside width is 20 in (508 mm).

05 Attach each B edge through A with four 2 in screws per joint, sixteen total, keeping the first/last holes 1 in from the front/rear.

06 Mark D's underside at z = 14 5/8 in (371.5 mm) and clamp it level between A. Use four 2 in screws through each side into D.

07 Square the carcass and attach C on the rear with fourteen 1 in screws, centered on the shell edges and kept clear of the planned anti-tip fixings.

08 Sand and fully cure a suitable optional coating before putting clean clothing inside. Do not line shelves with loose absorbent paper that hides dampness.

09 Fit E centered over the front, leaving a 1/8 in (3.2 mm) outer reveal. Use three manufacturer-selected overlay hinges compatible with the actual panel thickness; follow their hole pattern and short-fastener limits.

10 Fit a low-profile pull and positive latch with smooth-ended hardware. The closed door must not rub the floor or require the cabinet to be pulled forward.

11 Set on a level dry floor and install two suitable upper anti-tip retainers to inspected backing; keep the cabinet floor-supported rather than treating these as hanging anchors.

12 Store only clean dry supplies, close the door after use and check regularly for dampness, pests or contamination. Replace affected supplies; the cabinet does not disinfect its contents.

Acceptance and intermediate checks

Between-side parts are 18 1/2 in wide; outside width 20 in. Shelf underside is 14 5/8 in.

Door is 1/4 in smaller than the carcass in both width and height, centered to give 1/8 in outer reveal.

Cabinet is level, floor-supported and retained against tip; actual hinge installation does not expose sharp points.

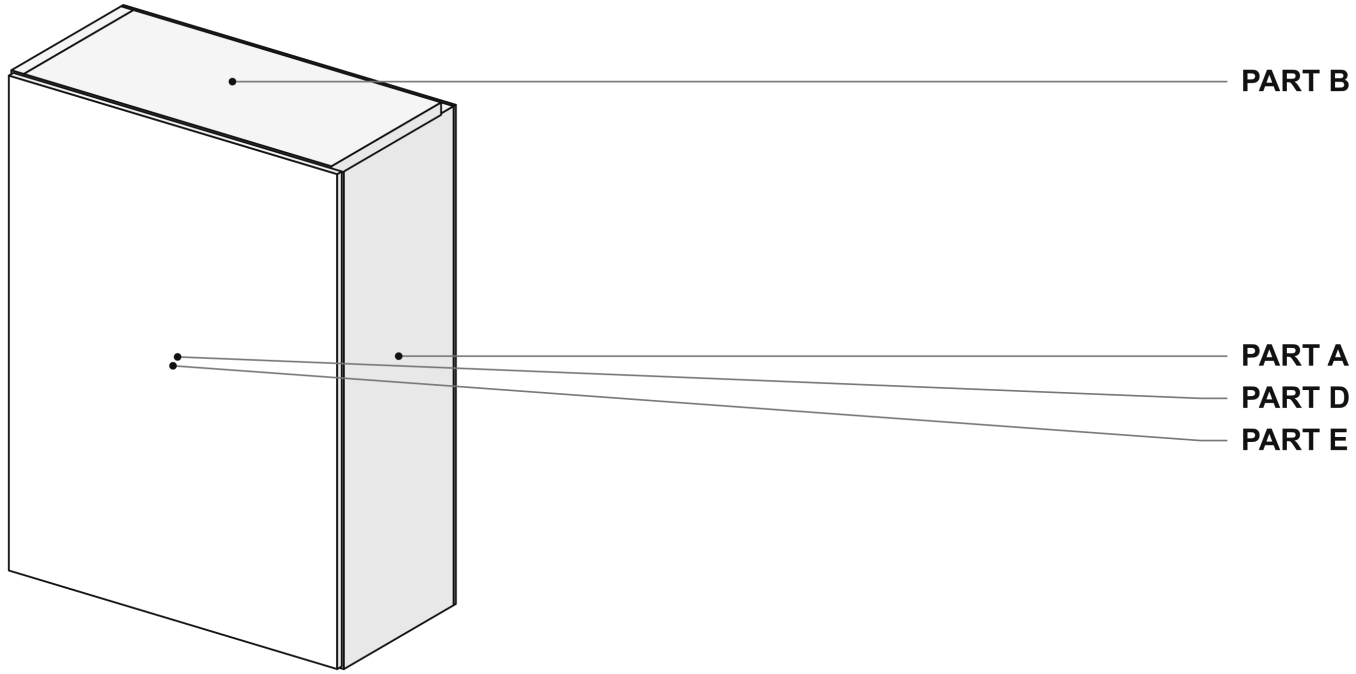
Door latches easily and clean supplies stay separate from dirty equipment and chemicals.

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-021 | ASSEMBLY GEOMETRY

Clean poultry-PPE floor cabinet



Displayed schematic envelope (x × y × z):

20 in × 12 3/4 in × 30 in / 508.0 × 323.8 × 762.0 mm

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

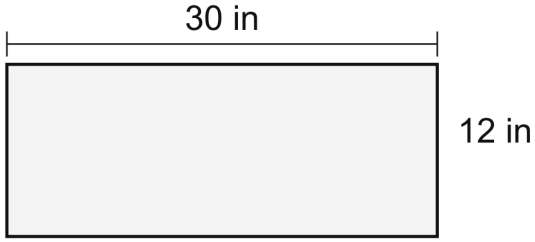
Original schematic • dimensions control • untested editorial draft

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

PO-021 | DIMENSIONED PARTS 1 OF 2

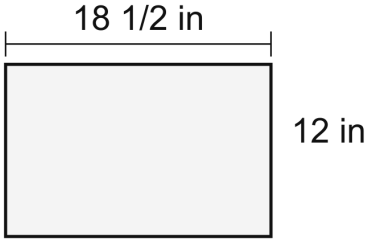
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Full-height side ×2



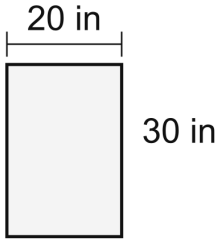
Metric face: 762.0 × 304.8 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

B Between-side top/bottom ×2



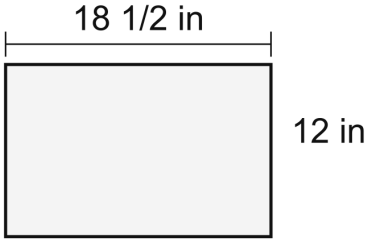
Metric face: 469.9 × 304.8 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

C Back ×1



Metric face: 508.0 × 762.0 mm
Thickness: 1/4 in / 6.35 mm
Stock and special cuts: materials list.

D Fixed shelf ×1



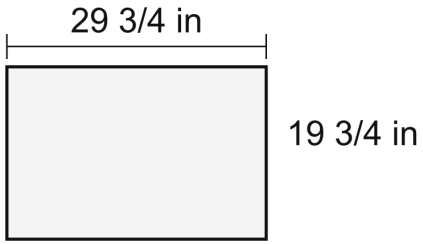
Metric face: 469.9 × 304.8 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

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

PO-021 | DIMENSIONED PARTS 2 OF 2

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

E Overlay door ×1

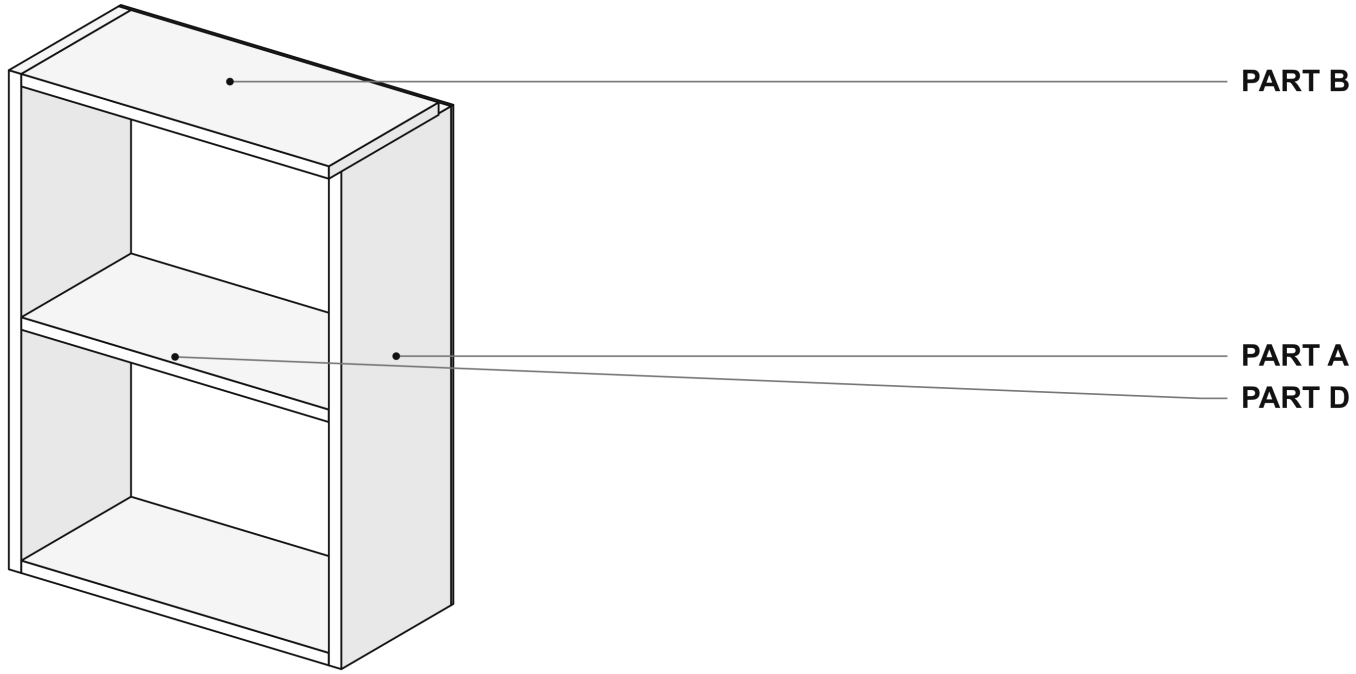


Metric face: 755.6 × 501.6 mm
Thickness: 1/2 in / 12.70 mm
Stock and special cuts: materials list.

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

PO-021 | ASSEMBLY GEOMETRY

Clean poultry-PPE floor cabinet (door omitted for assembly view)



Displayed schematic envelope (x × y × z):

20 in × 12 1/4 in × 30 in / 508.0 × 311.1 × 762.0 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.