PO-022 Dedicated manure-tool wall dock

Hang dedicated scrapers and light cleaning tools in separated bays so they do not occupy the clean egg-handling area.

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 Backboard	1	30 × 12 × 3/4 in 762 × 304.8 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
B Projecting dock shelf	1	30 × 4 × 3/4 in 762 × 101.6 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Cut four 3/4 in wide, 2 in deep front-opening slots centered at x = 6, 12, 18 and 24 in; radius inner slot ends.
C Shelf support cleat	1	30 × 1 1/2 × 3/4 in 762 × 38.1 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.

Hardware and consumables

10 × #8 corrosion-resistant exterior wood screw 1 1/4 in (31.75 mm). Back-to-cleat and shelf-to-cleat. Use compatible coatings/metals and the maker's pilot-hole guidance; do not substitute drywall screws.

2 × Corrosion-resistant shelf bracket with compatible short screws. Fit actual backing and 4 in shelf depth

4 × Substrate-specific wall anchor. Select from actual backing and intended tools

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.

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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 dirty-equipment wall outside bird reach and separate from clean cartons, feed scoops and protective clothing.

02 Measure intended tools: handle sections at the dock must pass through a 3/4 in (19.1 mm) slot and tool heads must be broad enough not to fall through; long heavy shovels need their own rated holder.

03 Cut A to 30 × 12 in (762 × 304.8 mm), B to 30 × 4 in, and C to 30 × 1 1/2 in, all actual 3/4 in thick.

04 Mark slot centerlines on B at 6, 12, 18 and 24 in. Drill a 3/4 in end hole with its center 1 5/8 in (41.3 mm) from the front edge, then saw straight from the front to meet it.

05 The finished slot depth is 2 in (50.8 mm); sand the inside ends and edges so handles are not cut or snagged.

06 Clamp C onto A with C's lower edge 3 in above A's bottom and its upper edge at 4 1/2 in. Drive five 1 1/4 in screws through A into C, evenly spaced.

07 Place B with its rear edge against A and underside resting on C at z = 4 1/2 in. Drive five 1 1/4 in screws down into C.

08 Add two corrosion-resistant shelf brackets below B at x = 6 and 24 in. Fit maker-compatible short screws to B and sound backing; bracket hardware must not enter the slots.

09 Drill four mounting holes in A, 2 in from the corners. Choose anchors for the inspected existing support and the actual tools; do not mount to unsupported thin siding.

10 Mount level and hang the intended light tools one at a time. Check heads seat on B and no tool can slide accidentally through a slot.

11 Label the dock for dedicated dirty tools, with labels on the human side; keep manure-contact ends from touching clothing or clean supplies.

12 Remove tools, scrape debris into waste collection and clean/dry the shelf/slots regularly. A dedicated dock does not replace actual tool cleaning.

Acceptance and intermediate checks

Slots are 3/4 in wide, 2 in deep and centered at the stated 6 in spacing.

Shelf underside sits at z = 4 1/2 in, on the cleat rather than on end-grain screws alone.

Actual tools hang securely without exposed points or obstruction of a passage.

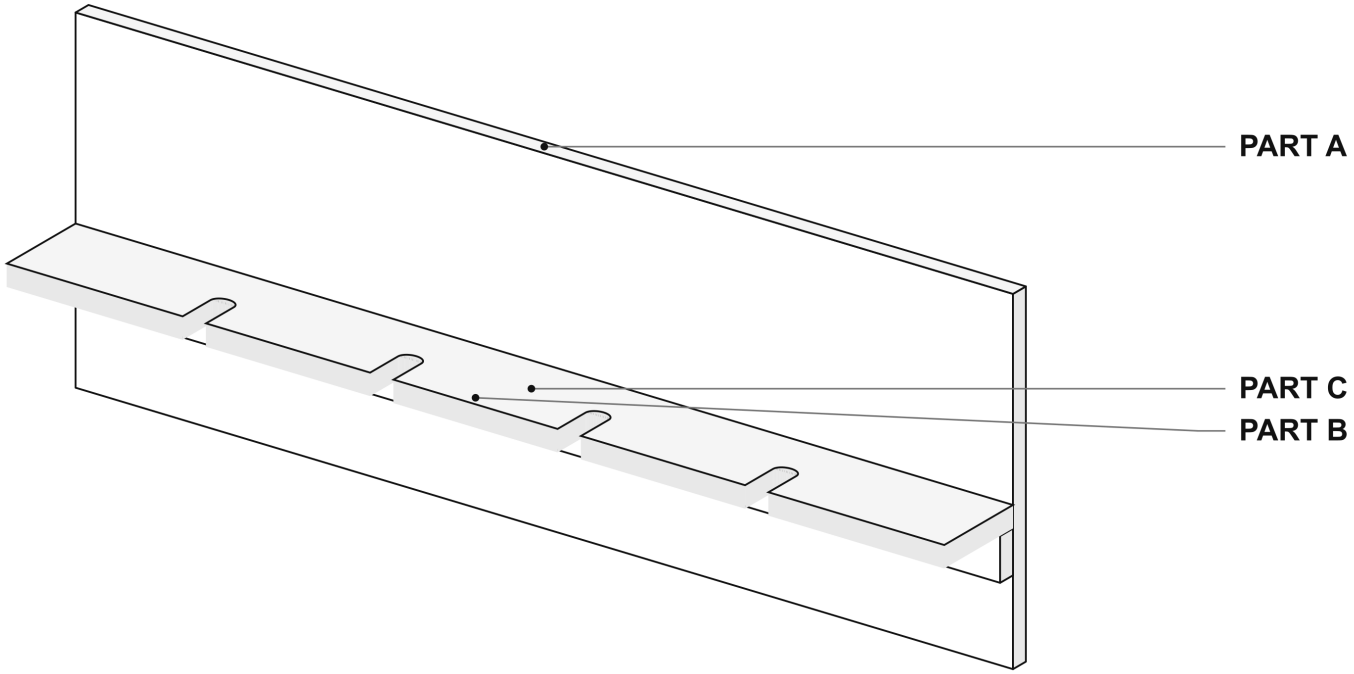
Wall support and selected bracket capacity are checked for the actual tools; no general load rating is claimed.

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-022 | ASSEMBLY GEOMETRY

Dedicated manure-tool wall dock



Displayed schematic envelope (x × y × z):

30 in × 4 3/4 in × 12 in / 762.0 × 120.6 × 304.8 mm

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

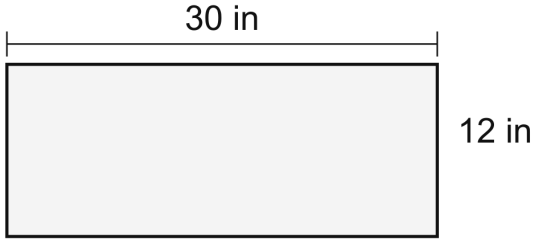
Original schematic • dimensions control • untested editorial draft

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

PO-022 | DIMENSIONED PARTS 1 OF 1

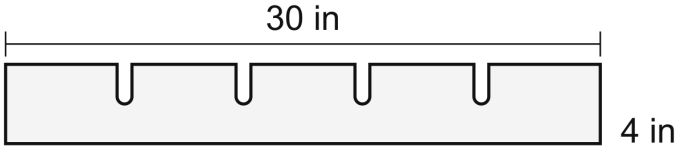
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Backboard ×1



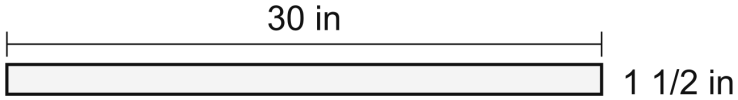
Metric face: 762.0 × 304.8 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

B Projecting dock shelf ×1



Metric face: 762.0 × 101.6 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

C Shelf support cleat ×1



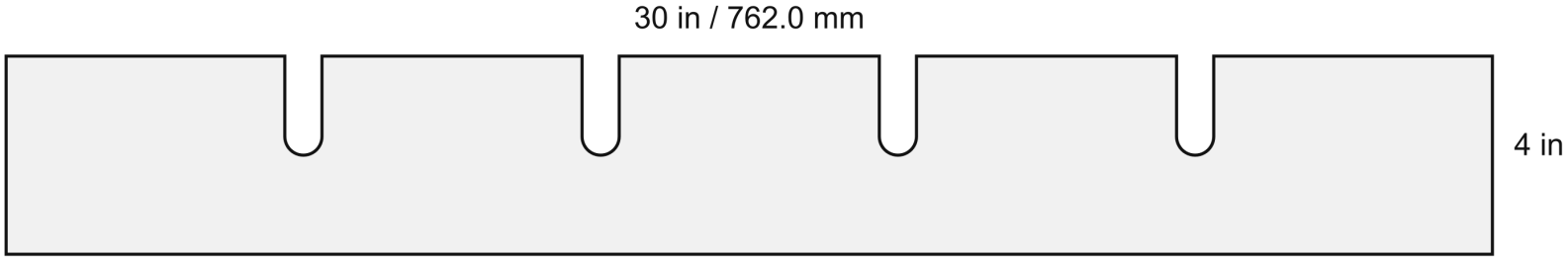
Metric face: 762.0 × 38.1 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

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

PO-022 | PART B FEATURE LAYOUT

Four front-opening tool slots

Origin is the part's front-left corner. x goes right; y goes toward the rear.



Slot width:	3/4 in / 19.05 mm
Slot depth:	2 in / 50.80 mm
First center from left:	6 in / 152.40 mm
Center spacing:	6 in / 152.40 mm
Last center from left:	24 in / 609.60 mm
Rounded inner end diameter:	3/4 in / 19.05 mm

Slot centers: 6, 12, 18 and 24 in. Measure actual tool sections before cutting.

Original vector detail • dimensions control • untested editorial draft