PO-057 Gravity handwashing service stand

Support a defined factory water dispenser above a separately contained catch basin, with no homemade hot-water or plumbing system.

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 Upper dispenser deck	1	24 × 18 × 3/4 in 609.6 × 457.2 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
B Lower catch deck	1	24 × 18 × 3/4 in 609.6 × 457.2 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Remove a 3/4 in wide × 6 in deep notch from each rear corner so the last 6 in fits between the main side panels.
C Left/right side	2	29 1/4 × 18 × 3/4 in 742.95 × 457.2 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
D Rear brace	1	24 × 12 × 3/4 in 609.6 × 304.8 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
E Catch-deck support	2	18 × 1 1/2 × 1 1/2 in 457.2 × 38.1 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.
F Front floor leg	2	19 1/2 × 1 1/2 × 1 1/2 in 495.3 × 38.1 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.

Hardware and consumables

8 × #8 corrosion-resistant exterior wood screw 2 in (50.8 mm). Upper deck to sides [N1]

8 × #8 corrosion-resistant exterior wood screw 1 1/2 in (38.1 mm). Back brace [N1]

4 × 1/4 in diameter × 3 in corrosion-resistant through-bolt 3 in (76.2 mm). E supports to C sides. Use two suitable washers and a locking nut per bolt unless specified; cap or trim exposed threads after verifying full nut engagement.

4 × #10 exterior wood screw 3 in (76.2 mm). E to F legs [N1]

4 × 1 × 1 in two-hole angle. Two per lower front leg

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

6 × #8 corrosion-resistant exterior wood screw 1 1/2 in (38.1 mm). Catch deck [N1]

1 × Complete Arrow Home Products 76601 gravity dispenser. Factory spigot unmodified; exact specified product

1 × Intact removable catch basin, maximum 20 × 14 × 4 in. No fitted hole or fluid coupling; rests entirely on the lower deck

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

S10 · 1.25 Gallon H2O Oasis Beverage Dispenser, stock 76601 · Arrow Home Products

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 Use a dry level poultry-entry location, with soap/towels and appropriate greywater disposal. This is a service stand, not water treatment or a certified public handwashing fixture.

02 Use the complete Arrow H2O Oasis 1.25-gallon dispenser, stock 76601, with its factory spigot. Published overall dimensions are 9 1/2 × 3 × 16 in; measure the actual supplied product before loading, without modifying it.

03 Cut C sides 29 1/4 × 18 × 3/4 in, A/B decks 24 × 18 × 3/4 in and D rear brace 24 × 12 × 3/4 in. Remove the two 3/4 × 6 in rear-corner notches from B, as drawn, so its back portion fits between C.

04 Clamp C 24 in outside-to-outside, fit A across their tops at 29 1/4–30 in and attach with four 2 in screws per side. Top stays fully supported by both side panels.

05 Fit D across C rear edges, y = 18–18 3/4 in and z = 12–24 in. Drive four 1 1/2 in screws into each side-panel rear edge, eight total, with holes centered in its 3/4 in thickness.

06 Cut E supports 18 in from actual 1 1/2 in square stock. Fit along C inner faces, x = 3/4–2 1/4 and 21 3/4–23 1/4 in, z = 19 1/2–21 in, y = -12–6 in; use two 1/4 × 3 in bolts per E at y = 1 and 5 in.

07 Cut F 19 1/2 in from actual 1 1/2 in square stock. Place directly beneath E front ends at y = -12–-10 1/2 in; fasten two #10 × 3 in screws down through each E into F, then add two 1 × 1 in two-hole angles per leg with 1 in screws.

08 Attach B over E at y = -12–6 in and z = 21–21 3/4 in, with six 1 1/2 in screws. Add a removable washable nonslip surface after any coating has cured.

09 Set an intact watertight catch basin on B, with footprint no larger than 20 × 14 in and height no more than 4 in. Basin is loose/removable, not a fabricated wood tank.

10 Place the empty defined dispenser on A with its factory spigot over the basin, then fill gradually while checking stand movement, spigot clearance and full base support.

11 Check actual clean running water falls into the basin, hands can reach without leaning on the stand, and the basin cannot overflow during the intended supervised use.

12 Empty/clean the catch basin through the actual disposal routine and dry all decks. Never add heat, an electrical pump, glass tank, stored chemical or a second dispenser; no filled-load rating is assigned.

Acceptance and intermediate checks

Main deck is 30 in high; catch deck is 21 3/4 in high and has two real front floor legs.

Defined complete dispenser fits fully; factory spigot remains unmodified and clears actual basin.

No rocking, cantilevered lower deck, overflow, exposed point or leaning hand load.

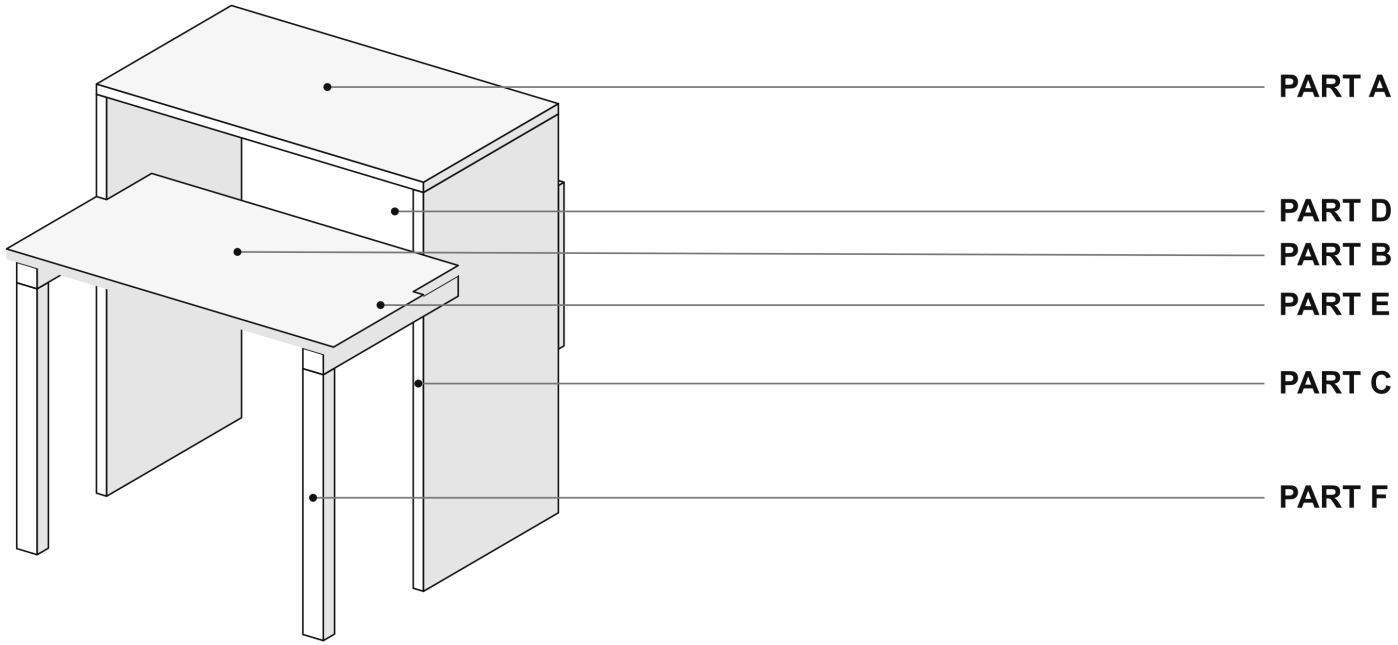
No potable-water treatment, heat, electrical supply, public-fixture certification or rated liquid payload.

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-057 | ASSEMBLY GEOMETRY

Gravity handwashing service stand



Displayed schematic envelope (x × y × z):

24 in × 30 3/4 in × 30 in / 609.6 × 781.0 × 762.0 mm

Part letters refer to the cut list; standard hardware is specified in the assembly steps.

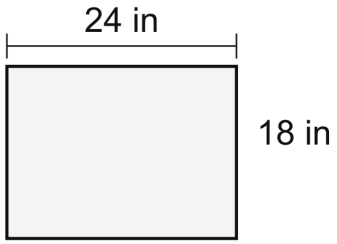
Original black/white vector schematic; dimensions control. Untested editorial draft.

x = left/right; y = front/rear; z = height. Purchased hardware is not falsely modeled as engineered parts.

PO-057 | DIMENSIONED PARTS 1 OF 2

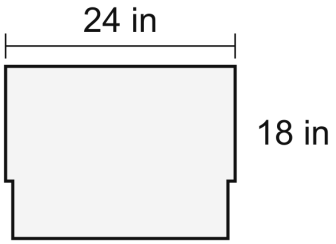
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Upper dispenser deck ×1



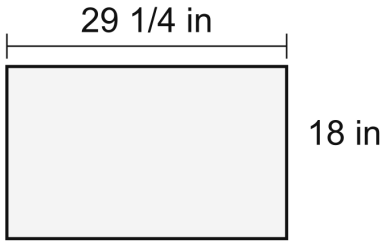
Metric face: 609.6 × 457.2 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

B Lower catch deck ×1



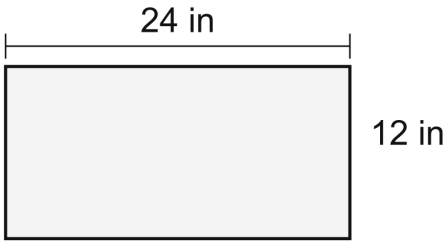
Metric face: 609.6 × 457.2 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

C Left/right side ×2



Metric face: 742.9 × 457.2 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

D Rear brace ×1



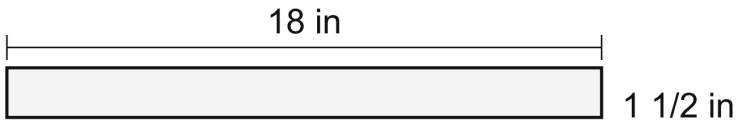
Metric face: 609.6 × 304.8 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

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

PO-057 | DIMENSIONED PARTS 2 OF 2

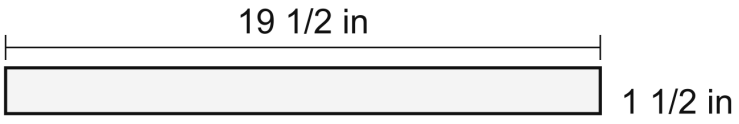
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

E Catch-deck support ×2



Metric face: 457.2 × 38.1 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

F Front floor leg ×2



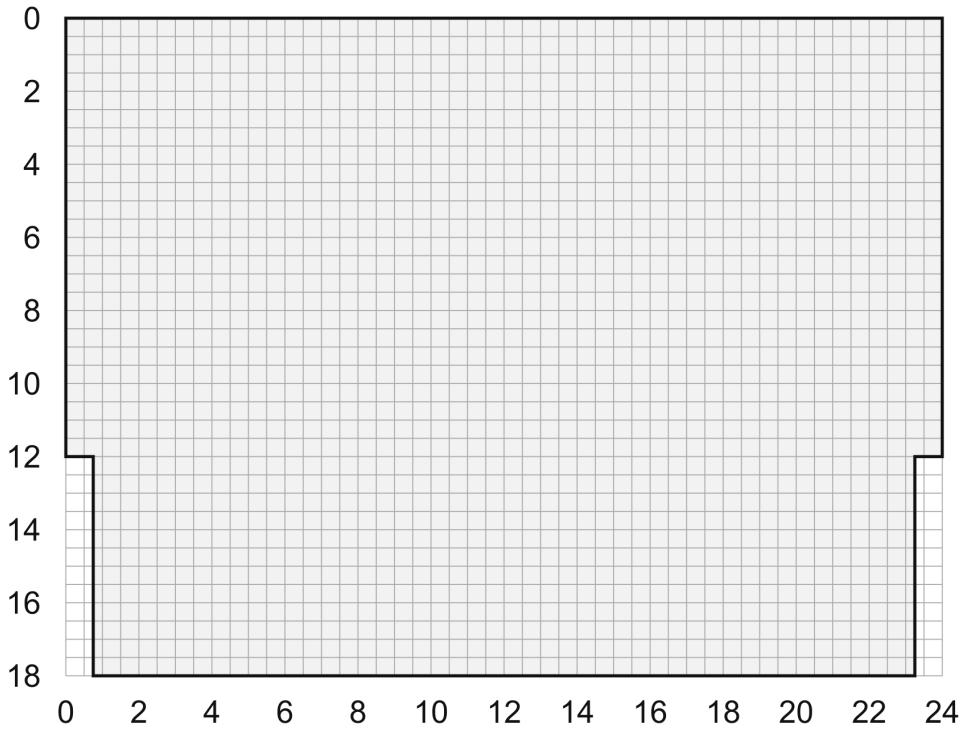
Metric face: 495.3 × 38.1 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

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

PO-057 | RETAINED CUT PROFILE 1 OF 1

Grid squares = 1/2 in (12.7 mm). Numbered axes are inches; transfer and check actual fit.

B Lower catch deck (plane xy)



Horizontal extent: 24 in

Vertical extent: 18 in

609.60 × 457.20 mm

Origin at front-left; depth increases downward.

Remove a 3/4 in wide × 6 in deep notch from each rear corner so the last 6 in fits between the main side panels.

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