PO-016 Ventilated feed-store sack pallet

Keep a sealed feed container or briefly staged intact sack above a dry storeroom floor; the pallet itself is not a rodent-proof feed container.

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 Floor runner	2	18 × 3 1/2 × 1 1/2 in 457.2 × 88.9 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.
B Top slat	3	24 × 5 1/2 × 3/4 in 609.6 × 139.7 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.

Hardware and consumables

12 × #8 corrosion-resistant exterior wood screw 1 3/4 in (44.45 mm). Four per slat. 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.

S1 · Caring for chickens in cold weather · University of Minnesota 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 dry feed storeroom location beyond flock access; a pallet does not protect feed from rodents, moisture or pecking.

02 Cut A runners to 18 in (457.2 mm) from actual 1 1/2 × 3 1/2 in stock.

03 Cut three B slats to 24 in (609.6 mm) from actual 3/4 × 5 1/2 in stock; sand upper edges so a sack cannot catch a splinter.

04 Lay A with wide faces down and outside edges 24 in apart. Their front/rear ends align.

05 Lay the first B at y = 0–5 1/2 in, the second at y = 6 1/4–11 3/4 in, and the third at y = 12 1/2–18 in.

06 Check both gaps are exactly 3/4 in (19.1 mm). Each slat's ends must be flush with the runner outer faces.

07 Mark two screw positions above each runner on each slat, separating them across the 5 1/2 in slat width and keeping 3/4 in from the slat ends.

08 Pilot and drive four 1 3/4 in screws per slat; after the 3/4 in top they enter A by 1 in (25.4 mm), with no point underneath.

09 Check level with the pallet empty. Do not cure rocking by stacking loose shims that can harbor pests.

10 Place only an actual stable container/sack whose bottom is fully supported by the 24 × 18 in footprint; no stacked-sack load or rated capacity is claimed.

11 Keep storage access clear so the pallet can be lifted and the floor checked; do not use it as a step.

12 If feed spills, remove it promptly and inspect under every slat. Dry wet stock and replace moldy wood; use a suitable animal/moisture-proof commercial container for actual feed storage.

Acceptance and intermediate checks

Overall footprint is 24 × 18 in; two 3/4 in gaps separate the three 5 1/2 in slats.

Overall height is 2 1/4 in (57.2 mm); all twelve screws remain within the 2 1/4 in assembly.

Stable floor placement and no projecting corners, nails or unsupported sack edge.

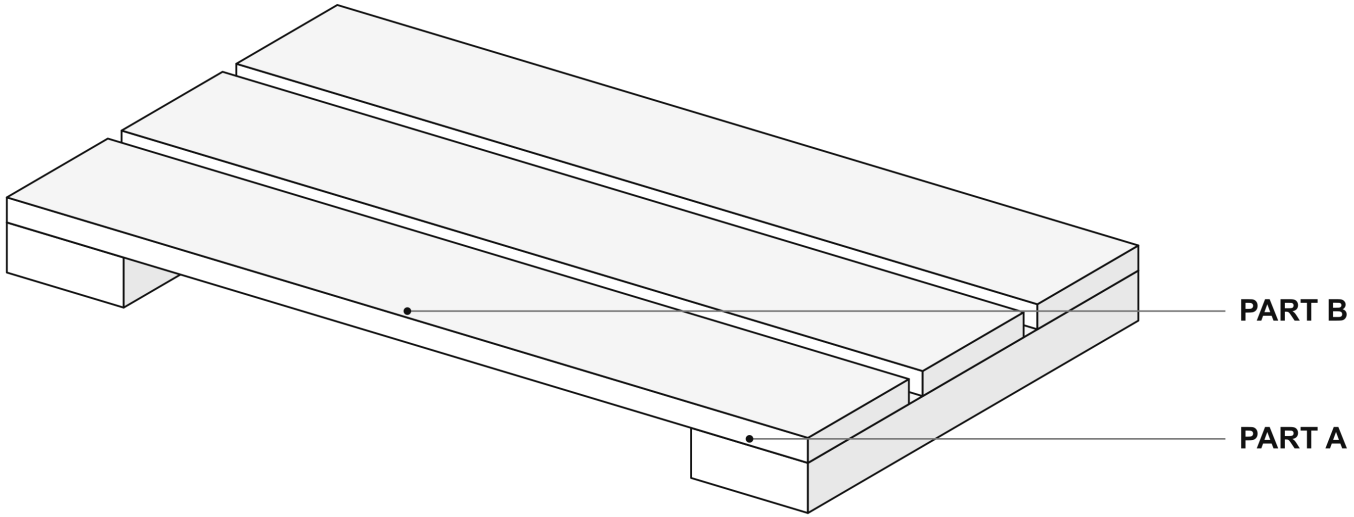
Feed remains in a suitable closed container; the pallet carries no pest-exclusion or tested-load claim.

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-016 | ASSEMBLY GEOMETRY

Ventilated feed-store sack pallet



Displayed schematic envelope (x × y × z):

24 in × 18 in × 2 1/4 in / 609.6 × 457.2 × 57.1 mm

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

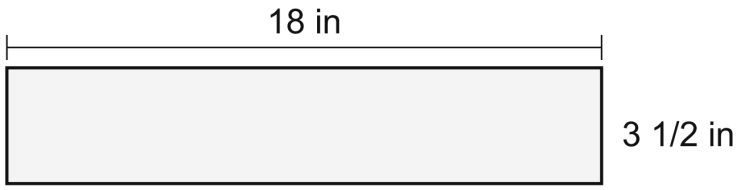
Original schematic • dimensions control • untested editorial draft

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

PO-016 | DIMENSIONED PARTS 1 OF 1

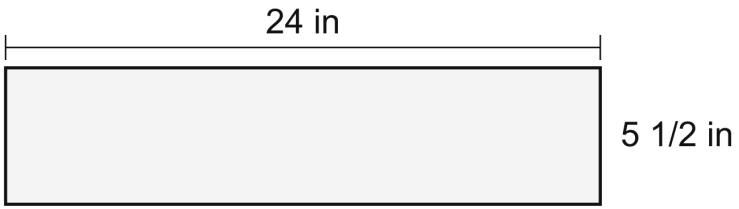
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Floor runner ×2



Metric face: 457.2 × 88.9 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

B Top slat ×3



Metric face: 609.6 × 139.7 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

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