PO-008 Lift-out doorway litter kickboard

Retain loose bedding behind a removable doorway board while leaving the human door and emergency exit operable.

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 Kickboard	1	36 × 8 × 3/4 in 914.4 × 203.2 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
B Guide backing	2	10 × 2 1/2 × 3/4 in 254 × 63.5 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.
C Outer spacer	2	10 × 1 × 3/4 in 254 × 25.4 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.
D Keeper strip	2	10 × 2 1/2 × 3/4 in 254 × 63.5 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.

Hardware and consumables

4 × #8 corrosion-resistant exterior wood screw 1 1/4 in (31.75 mm). Spacers [N1]

6 × #8 corrosion-resistant exterior wood screw 2 in (50.8 mm). Keepers [N1]

4 × Existing-jamb-specific removable anchors. Two per backing rail; verify sound material

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.

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 Confirm the doorway has a clear mounting zone 37 3/4 in (958.9 mm) wide, and that a removable 8 in (203.2 mm) board will not interfere with an exit or become an unmarked trip hazard.

02 Cut A to 36 × 8 in from actual 3/4 in plywood. Round its top corners and sand the upper edge smooth for lifting.

03 Cut two each of B and D to 10 × 2 1/2 × 3/4 in. Cut C to 10 × 1 × 3/4 in by ripping actual stock to 1 in depth; the 1 in dimension creates the running gap.

04 Mount B vertically with outside faces spanning 37 3/4 in; use anchors selected for sound existing jamb framing, not loose trim.

05 Position C on each far outside edge. Attach each with two 1 1/4 in screws into B, at 2 and 8 in (50.8 and 203.2 mm) from the bottom.

06 Dry-fit A centered between C; inner spacer faces are 36 1/4 in (920.8 mm) apart, giving 1/8 in (3.2 mm) side clearance per edge.

07 Clamp D onto C. Drive three 2 in screws per D on C's centerline, maintaining the 1 in cavity around the 3/4 in board.

08 Slide A down onto a smooth existing threshold. It must come out vertically without removing D and without requiring fingers behind a sharp edge.

09 Add a high-contrast removable label to the board's human side identifying the temporary step-over obstacle; keep labels and adhesives inaccessible to pecking.

10 Open and close the main door fully. Carry the lifted board through the real exit route to verify rapid removal.

11 Introduce bedding only after the board and retainers are secure. Do not pack litter so tightly that it prevents removal or holds the board wet.

12 Remove before moving bulky supplies or when the doorway is used as a primary exit; clean and dry the track channels when litter begins to jam them.

Acceptance and intermediate checks

C is actual 1 in (25.4 mm) deep; the cut-list width was deliberately ripped from wider stock, not left at 3/4 in.

Guides are parallel, with 36 1/4 in between inner spacer faces and 1 in of running depth.

Board lifts out freely and the main door opens completely.

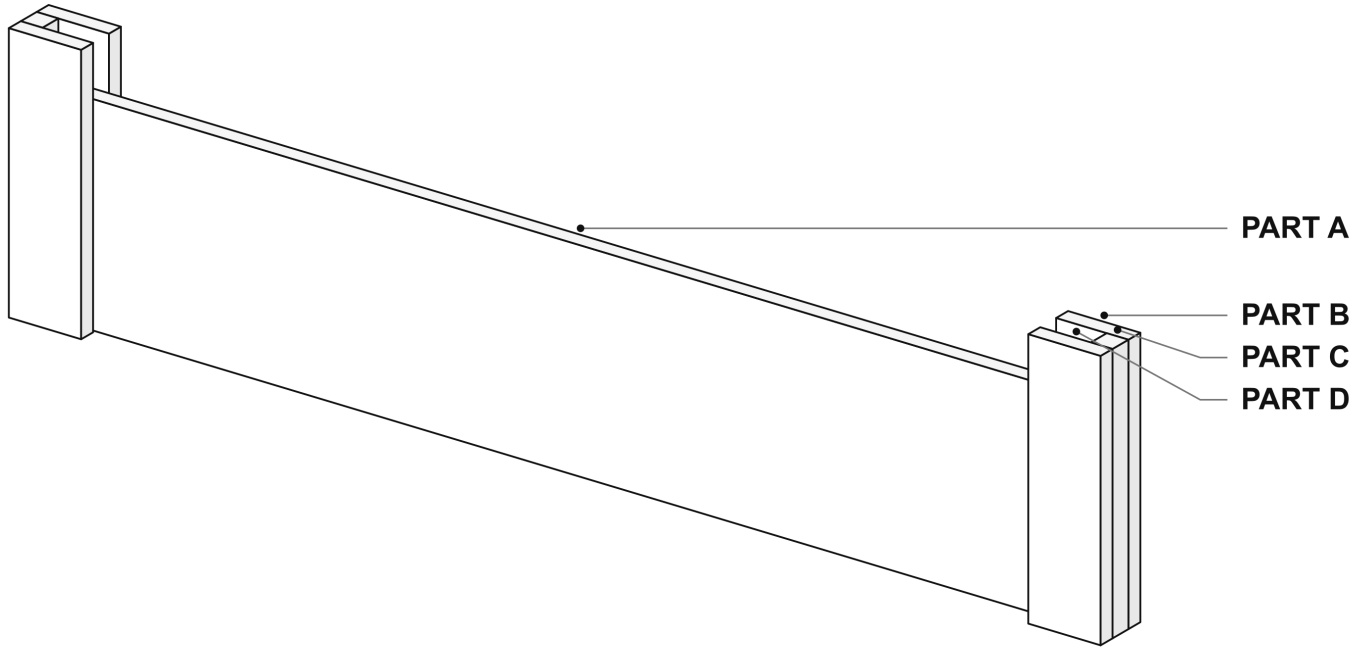
Humans can identify the trip obstacle; emergency egress is not compromised.

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-008 | ASSEMBLY GEOMETRY

Lift-out doorway litter kickboard



Displayed schematic envelope (x × y × z):

37 3/4 in × 2 1/2 in × 10 in / 958.8 × 63.5 × 254.0 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-008 | DIMENSIONED PARTS 1 OF 1

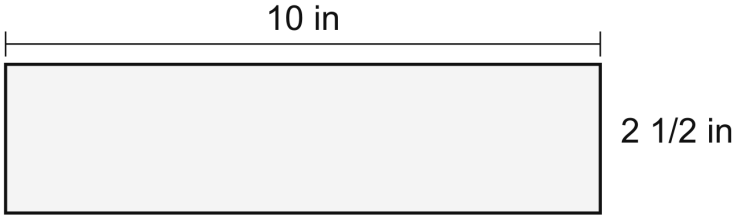
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Kickboard ×1



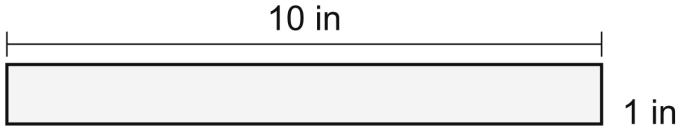
Metric face: 914.4 × 203.2 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

B Guide backing ×2



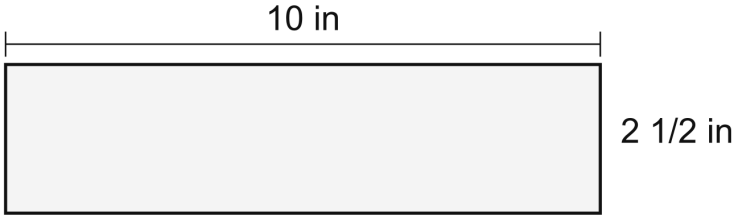
Metric face: 254.0 × 63.5 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

C Outer spacer ×2



Metric face: 254.0 × 25.4 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

D Keeper strip ×2



Metric face: 254.0 × 63.5 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

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