WS-054 Small clean-water bottle pouring cradle

Locate a cool capped bottle horizontally while its owner controls a small tabletop pour.

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

US inches; feet where appropriate. Metric values are rounded references. Written inch values control.

3/4 in means measured 0.750 in actual thickness wherever used. Recalculate mating lengths for other sheet thicknesses; do not substitute nominal stock blindly.

Use limits

No hot liquids, chemicals, pressure vessel, heavy jug or automatic dispensing function.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
A Base	1	12 × 6 × 3/4 in 304.8 × 152.4 × 19.05 mm	Sanded birch plywood with sound, void-free receiving edges. Measured actual thickness 3/4 in.
B V saddles	2	5 × 3 × 3/4 in 127 × 76.2 × 19.05 mm	Clear solid hard maple, straight grain along the listed length. Measured actual thickness 3/4 in.
C End stop	1	5 × 1 × 3/4 in 127 × 25.4 × 19.05 mm	Clear solid hard maple, straight grain along the listed length. Measured actual thickness 3/4 in.

Hardware and consumables

6 × #8 × 1 1/4 in screws. Four saddles, two stop.

2 × Removable silicone padding. One strip for each V; actual material fit.

Tools

Rule with fractional inches; Pencil or appropriate material marker; Reliable square; Saw suited to the specified stock; Clamps; Abrasive and dust-removal brush; Driver matching selected fasteners

Primary context and design record

Context references; not design endorsements or certifications.

WS-S01 · Hand and Power Tools · OSHA

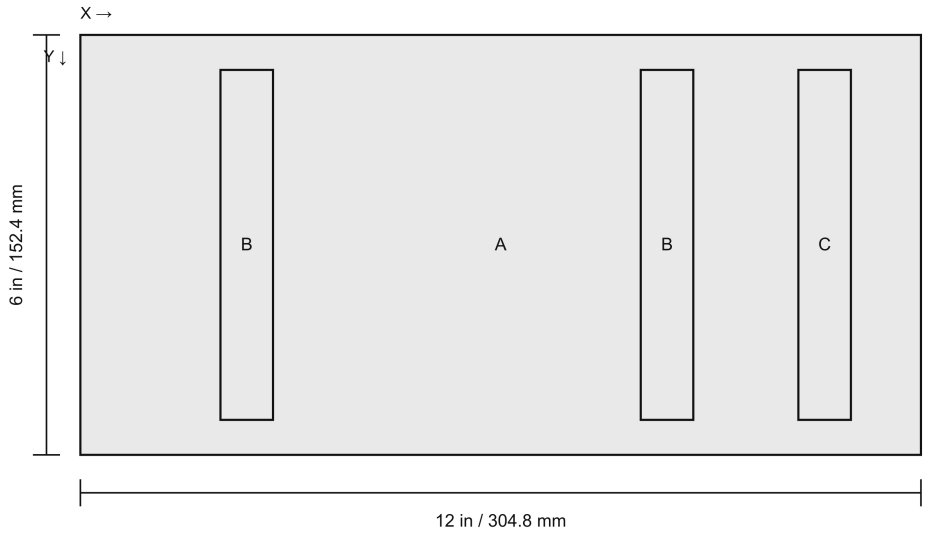
WS-S02 · Packaging Foods · Utah State University Extension

WS-S03 · Food Storage Conditions · Utah State University Extension

Assembly and first checks

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PLAN / reference origin at front-left; not to scale. Inch values control.



Part letters identify the cut-list pieces. Dashed outline = underside part.
Coordinates in the method use the same X/Y reference.
Do not drill from the graphic: transfer the written center coordinates.
Original editorial design; no physical construction trial or certified load rating.

01 Use a lightweight bottle no more than 1 US quart, about 3 in diameter, filled with cool clean water only. This is not a hands-free dispenser.

02 Cut A 12 × 6 × 3/4 in, two B saddles 5 × 3 × 3/4 in and C 5 × 1 × 3/4 in.

03 On each B upper edge mark a centered 90-degree V, 2 in mouth width and 1 in depth; the bottom 2 in of B remains intact.

04 Clamp each B and cut the V with a hand saw. Round and pad contact edges with removable clean silicone strips; no adhesive contacts the bottle opening.

05 Stand B vertically across A at X = 2–2 3/4 and 8–8 3/4 in, centered in the 6 in width.

06 Fix each B through A from below with two #8 × 1 1/4 in screws at Y = 1 1/2 and 4 1/2 in, centered on B’s 3/4 in bottom edge.

Complete the assembly

WS-054 Component dimensions

Orthographic component reference. Quantities shown; not a sheet nesting plan or full-size template.



12 × 6 in

A Base QTY 1

12 in / 304.8 mm × 6 in / 152.4 mm
thickness 3/4 in / 19.0 mm



5 × 3 in

B V saddles QTY 2

5 in / 127.0 mm × 3 in / 76.2 mm
thickness 3/4 in / 19.0 mm



5 × 1 in

C End stop QTY 1

5 in / 127.0 mm × 1 in / 25.4 mm
thickness 3/4 in / 19.0 mm

Measured actual stock controls. Read the written assembly sequence before cutting or fastening.

07 Place C vertically across A at X = 10 1/4–11 in as a closed-bottle bottom stop. Fix through A with two identical screws at the same Y positions.

08 Seat the capped actual bottle in both padded Vs with its bottom against C. The cradle must sit in a separate spill tray.

09 During pouring, keep one hand controlling the bottle and a second hand controlling the receiving cup; lift and tip the bottle rather than expecting the cradle to restrain it.

10 Recap, unload, wash the removable padding as appropriate and dry wood promptly after any spill.

Acceptance and intermediate checks

Two Vs each 2 in mouth × 1 in depth in 3 in-high saddles.

Actual bottle seated across both saddles without glass stress or rocking.

User remains in control of bottle and cup; no unattended flow.

Cleaning and maintenance

Inspect padding and screws before use.

Dry after spills; replace split saddle roots.