WS-057 Lift-out slatted soap dish

Keep a bar of household soap above a separate washable draining tray.

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 antimicrobial, sanitation or mold-resistance guarantee.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
A End runners	2	4 × 1 × 1/2 in 101.6 × 25.4 × 12.7 mm	Clear untreated white oak heartwood, smooth and straight-grained. Measured actual thickness 1/2 in.
B Slats	6	5 × 1/2 × 3/8 in 127 × 12.7 × 9.52 mm	Clear untreated white oak heartwood, smooth and straight-grained. Measured actual thickness 3/8 in.

Hardware and consumables

1 × Suitable waterproof wood adhesive. Use only if labeled suitable for the materials and wet service.

1 × Purchased draining tray. Minimum 6 × 5 in internal 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

Primary context and design record

Context references; not design endorsements or certifications.

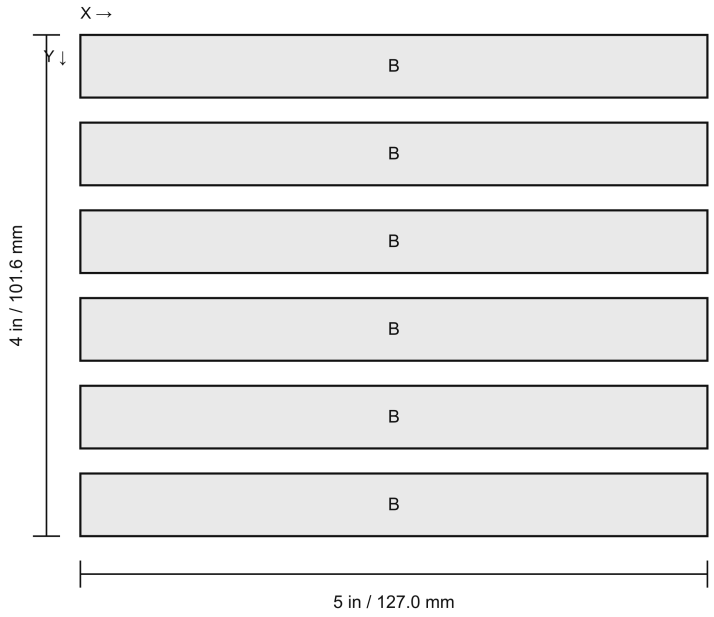
WS-S01 · Hand and Power Tools · OSHA

WS-S05 · Wood Handbook, Chapter 2: Characteristics and Availability of Commercially Important Woods · USDA Forest Products Laboratory

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 Choose a washable purchased tray at least 6 × 5 in inside. The wooden insert raises soap but does not replace cleaning the tray.

02 Cut two A runners 4 × 1 × 1/2 in and six B slats 5 × 1/2 × 3/8 in from a suitable rot-resistant smooth wood.

03 Set A across Y, with footprints X = 0–1 and 4–5 in, Y = 0–4 in.

04 Lay B across X, length 5 in, at Y = 0,7/10,14/10,21/10,28/10,35/10 in. These measured decimal positions yield 1/5 in gaps and a 4 in total width.

05 Convert those layout values with a decimal rule or use a 7/10 in spacer; do not silently replace with uneven rounded fractions.

06 Dry-fit and clamp each B. Attach with suitable waterproof wood adhesive at its two end bearing areas, with no metal fastener in the soap-contact surface.

Complete the assembly

WS-057 Component dimensions

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



4 × 1 in

A End runners QTY 2

4 in / 101.6 mm × 1 in / 25.4 mm

thickness 1/2 in / 12.7 mm



5 × 1/2 in

B Slats QTY 6

5 in / 127.0 mm × 1/2 in / 12.7 mm

thickness 3/8 in / 9.5 mm

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

07 Cure for the full adhesive label time outside wet service, then ease slat edges and remove every hardened glue bead.

08 Place the insert in the separate tray and check it lifts out easily; do not wedge it against ceramic edges.

09 Set one cool soap bar across at least three slats. Drain water from the tray after use rather than allowing continuous soaking.

10 Remove insert and wash/dry both components independently. Replace any slimy, split or loose slat.

Acceptance and intermediate checks

Six 1/2 in slats across 4 in width, five 1/5 in gaps.

Overall insert 5 × 4 in; total height 7/8 in.

Insert removes freely and rests without rocking.

Cleaning and maintenance

Drain and dry regularly.

Inspect glue lines after first wet cycle.