WS-051 Free-standing pantry thermometer cradle

Orient one purchased room thermometer for easy reading without modifying its sensor.

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 calibration, food-temperature measurement, alarm or shelf-life claim.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
A Base	1	6 × 4 × 3/4 in 152.4 × 101.6 × 19.05 mm	Sanded birch plywood with sound, void-free receiving edges. Measured actual thickness 3/4 in.
B Upright	1	6 × 2 × 3/4 in 152.4 × 50.8 × 19.05 mm	Clear solid hard maple, straight grain along the listed length. Measured actual thickness 3/4 in.
C Lower ledge	1	3 × 1 × 1/2 in 76.2 × 25.4 × 12.7 mm	Clear solid hard maple, straight grain along the listed length. Measured actual thickness 1/2 in.

Hardware and consumables

1 × 1 1/2 in angle bracket. Four actual holes, fit recorded.

4 × 1/2 in wood screws. Bracket attachment.

2 × #6 × 3/4 in screws. Through C into B.

1 × 8 in hook-and-loop strap. No vent obstruction.

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

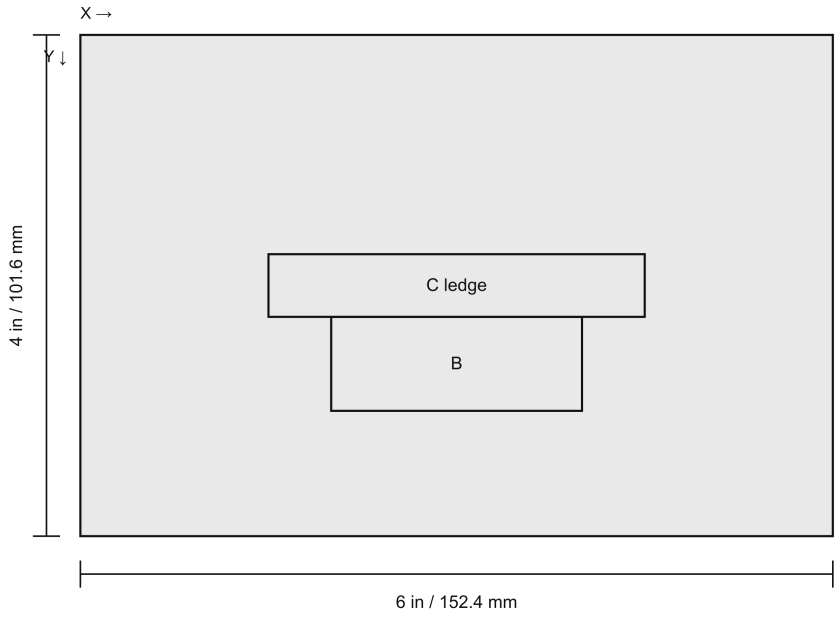
WS-S02 · Packaging Foods · Utah State University Extension

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

Assembly and first checks

WS-051 Free-standing pantry thermometer cradle

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 purchased room thermometer with its own specified operating range. This holder provides no calibration or temperature alarm.

02 Cut A 6 × 4 × 3/4, B 6 × 2 × 3/4 and C 3 × 1 × 1/2 in.

03 Place B vertically on A, centered at X = 3 in with its broad face toward the reader and rear face at Y = 3 in.

04 Fit one 1 1/2 in angle bracket behind B, using four compatible 1/2 in wood screws through its actual holes; mark and record the actual pattern.

05 Place C horizontally across B’s lower front at 1 in above A. Fit two #6 × 3/4 in screws through C into B, at X = 2 1/2 and 3 1/2 in, at 1 1/2 in above A, after a scrap pilot test.

06 The C screw axes enter B horizontally: 1/2 in through C plus 1/4 in into B. Keep the screws below the thermometer’s sensing vents.

Complete the assembly

WS-051 Component dimensions

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



6 × 4 in

A Base QTY 1

6 in / 152.4 mm × 4 in / 101.6 mm
thickness 3/4 in / 19.0 mm



6 × 2 in

B Upright QTY 1

6 in / 152.4 mm × 2 in / 50.8 mm
thickness 3/4 in / 19.0 mm



3 × 1 in

C Lower ledge QTY 1

3 in / 76.2 mm × 1 in / 25.4 mm
thickness 1/2 in / 12.7 mm

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

07 Set the thermometer on C and loosely retain its upper body with one 8 in reusable hook-and-loop strap around B, outside every vent.

08 Place the stand in a representative pantry location, away from sun, a heater, an exterior wall cold spot or a hot appliance.

09 Compare the reading behavior with the thermometer maker’s location guidance. Do not assume a single reading measures every shelf.

10 Record the instrument model, location and observation date in a separate log; remove it before cleaning the wooden stand.

Acceptance and intermediate checks

All instrument vents remain uncovered.

Base rests flat and thermometer removes without tools.

Actual bracket hole pattern and model recorded.

Cleaning and maintenance

Dust sensor only by maker’s instructions.

Inspect strap and bracket periodically.