GA-069 Seed-envelope folding template

Make consistent small paper seed envelopes with a reusable fold-registration board and removable edge fences.

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

Measure the stated stock sections before cutting. Use the cut-list geometry, not scale measurements from the drawing.

US inch dimensions control; millimeter values are rounded conversions. Ordinary cut target ±1/16 in (1.6 mm); fit commercial accessories before boring attachment holes.

Use limits

Original bounded garden component, not an occupied structure.

No human standing, sitting, climbing, lifting or fall protection use. No stated safe working load.

Geometry and fastener quantities are editorially checked; no prototype build, wind test or crop trial is claimed.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
P01 Template base	1	12 × 10 × 1/2 in 304.8 × 254 × 12.7 mm	measured 1/2 in plywood exterior-bond plywood for protected non-food-contact fixtures; substitute thickness only by recalculating joints
P02 Left fold fence	1	8 × 1 1/2 × 3/4 in 203.2 × 38.1 × 19.05 mm	1 × 2 in board sound untreated cedar or other durable untreated wood; no unknown salvage
P03 Lower fold fence	1	9 × 1 1/2 × 3/4 in 228.6 × 38.1 × 19.05 mm	1 × 2 in board sound untreated cedar or other durable untreated wood; no unknown salvage
P04 Creasing stick	1	8 × 3/4 × 3/4 in 203.2 × 19.05 × 19.05 mm	1 × 2 in board sound untreated cedar or other durable untreated wood; no unknown salvage

Hardware and consumables

4 #8 × 1 in screws for fences, 2 each

Plain clean paper; pencil; removable low-tack tape or suitable dry-paper adhesive

No use for wet seed or claiming long-term moisture-barrier storage

Tools

Tape measure and steel rule; Pencil, square and clamps; Saw suited to the stated stock; eye and hearing protection; Drill/driver, countersink and bits matched to fasteners; Sandpaper and edge file; gloves when handling cut mesh

Primary context and design record

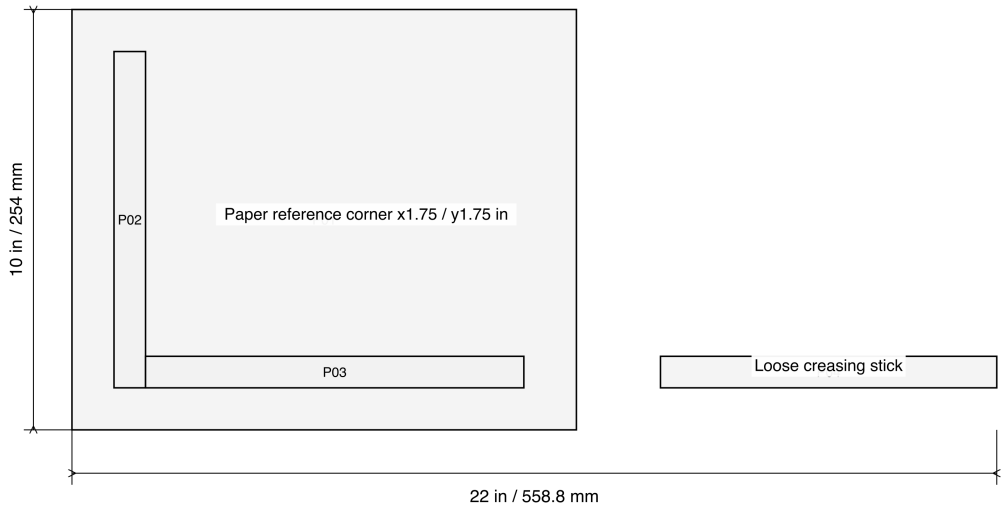
Context references; not design endorsements or certifications.

E02 · Seed and Seedling Biology · Penn State Extension · https://extension.psu.edu/seed-and-seedling-biology

Assembly and first checks

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PLAN — looking down; rear at top; controlling dimensions in inches



Part IDs refer to the finished cut list. Shapes are not load-rated. Read assembly before cutting.
Notches, holes, fittings and operating angles: see numbered steps and geometric annotations.
Original editorial draft • B/W vector • not physically built or tested • no implied Extension endorsement

01 Plan the seed-envelope folding template for this result: Make consistent small paper seed envelopes with a reusable fold-registration board and removable edge fences. Confirm the design reference before cutting: Fences square and corners smooth; all envelope seams closed in a dry trial. In the drawings x runs left to right, y runs front to rear and z runs upward.

02 Verify the required stock before laying out these parts: 1 × 2 in board: actual 0.75 × 1.5 in (19.05 × 38.1 mm); measured 1/2 in plywood: measured thickness 0.5 in. Reject split or twisted wood and unknown salvage; thinner stock requires recalculating the joints, not simply using the listed lengths.

03 Cut and label the finished parts: 1 Template base 12 × 10 × 0.5 in (304.8 × 254 × 12.7 mm), mark P01; 1 Left fold fence 8 × 1.5 × 0.75 in (203.2 × 38.1 × 19.05 mm), mark P02; 1 Lower fold fence 9 × 1.5 × 0.75 in (228.6 × 38.1 × 19.05 mm), mark P03; 1 Creasing stick 8 × 0.75 × 0.75 in (203.2 × 19.05 × 19.05 mm), mark P04. Keep saw kerf outside each finished line. Rip only where the finished width is narrower than the actual stock; use a suitable guide and target ±1/16 in (1.6 mm) for ordinary cuts. Dowel triples mean length × diameter × diameter, not square dowel stock.

04 Fit the left fence with its inner face at x = 1-3/4 in and the lower fence with its inner face at y = 1-3/4 in. Their inside corner is the paper reference.

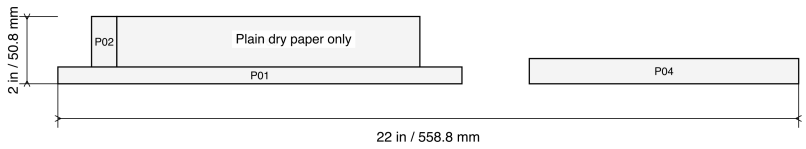
05 Predrill and attach each fence from beneath with two 1 in screws. Sand the inside corner and keep all screw points buried.

06 Rip the loose creasing stick to 3/4 in square and round one long edge smoothly. It is a paper tool, not a blade.

Complete the assembly

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FRONT — transparent assembly projection from y = 0; controlling dimensions in inches



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07 Cut a 6 × 8 in plain-paper trial and register one corner against the two fences. Mark a 2 in lower flap and a 1 in side-overlap line on the paper, not on seeds.

08 Lift the paper and fold along its marks with the creasing stick. Fold the lower flap upward and the sides around a clean 3 × 5 in card used as a temporary size former.

09 Remove the card and secure only the paper overlap with tape/adhesive appropriate to paper. Let it dry fully away from seed.

10 Fill one envelope with dry test material and fold the top flap. Label species, variety and collection information before using for a valuable seed lot.

11 Check that small dry seeds do not escape the seams. Store the labeled envelope within the crop-appropriate dry storage system; paper alone is not a humidity or insect barrier.

12 Complete the acceptance checks below before putting the assembly into service. Record any changed stock thickness, fastener or equipment fit on the project sheet. The published geometry has not been physically built or load-tested.

Acceptance and intermediate checks

Fences square and corners smooth; all envelope seams closed in a dry trial.

Seed lot remains identifiable after envelope is removed from the jig.

Operation

A paper manufacturing jig, not a seed-viability or long-term preservation guarantee.

Cleaning and maintenance

Brush paper scraps away and keep the template dry.