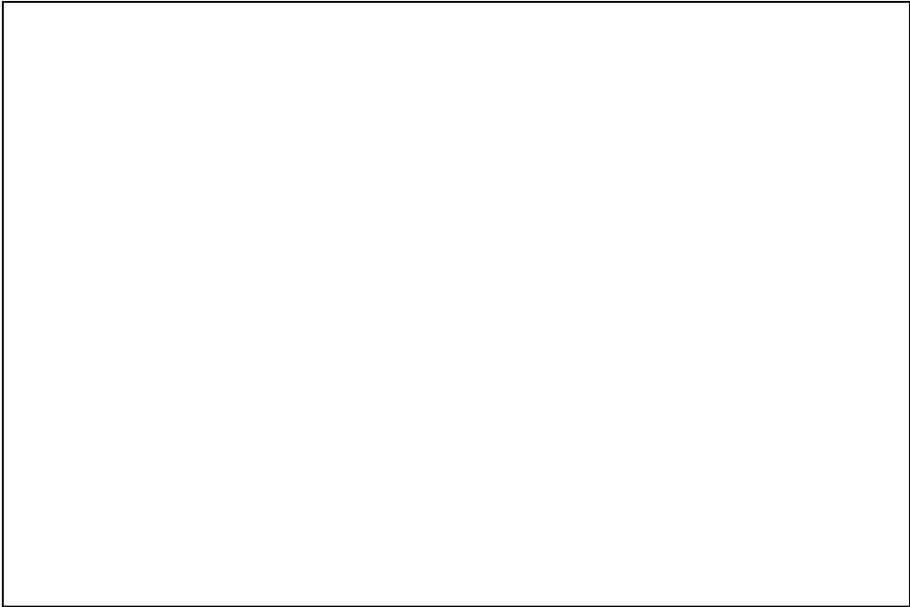


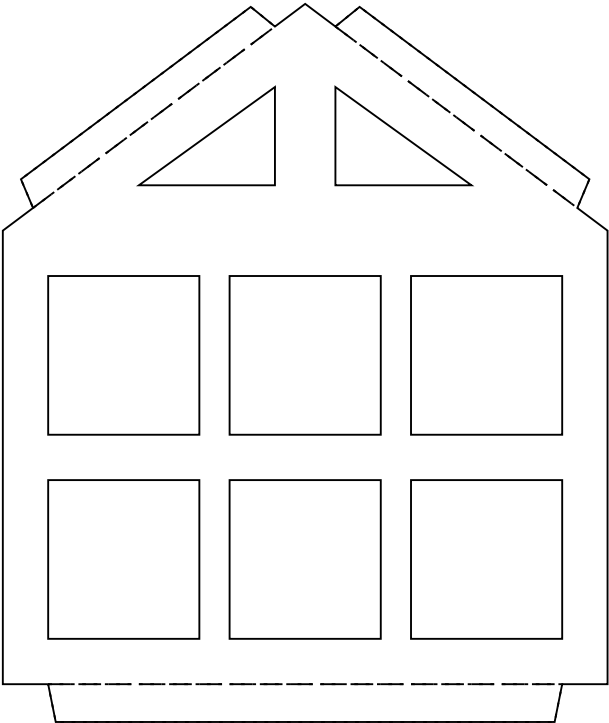
Open-frame Greenhouse

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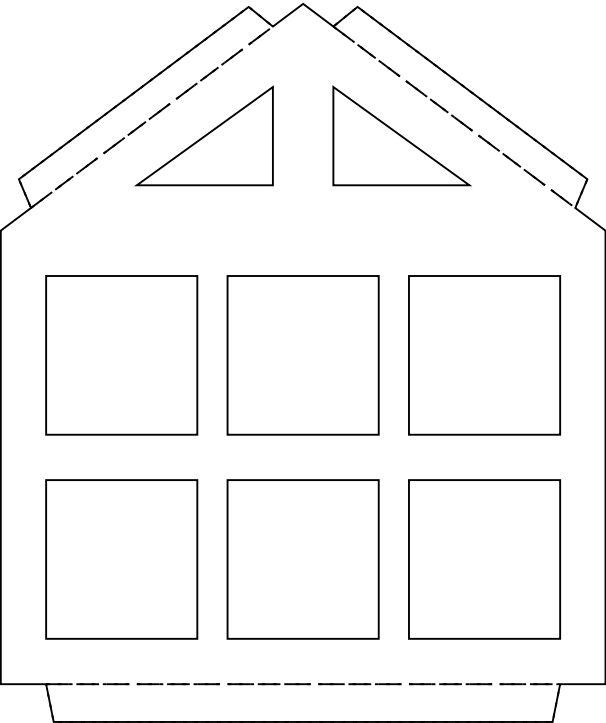
F | cut 1
120.00 x 80.00 mm



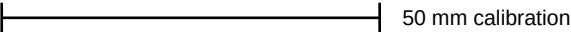
E1 | cut 1
80.00 x 95.00 mm



E2 | cut 1
80.00 x 95.00 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue

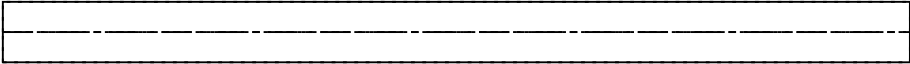


Print at 100% / Actual size. Do not fit to page. Original paper craft template.

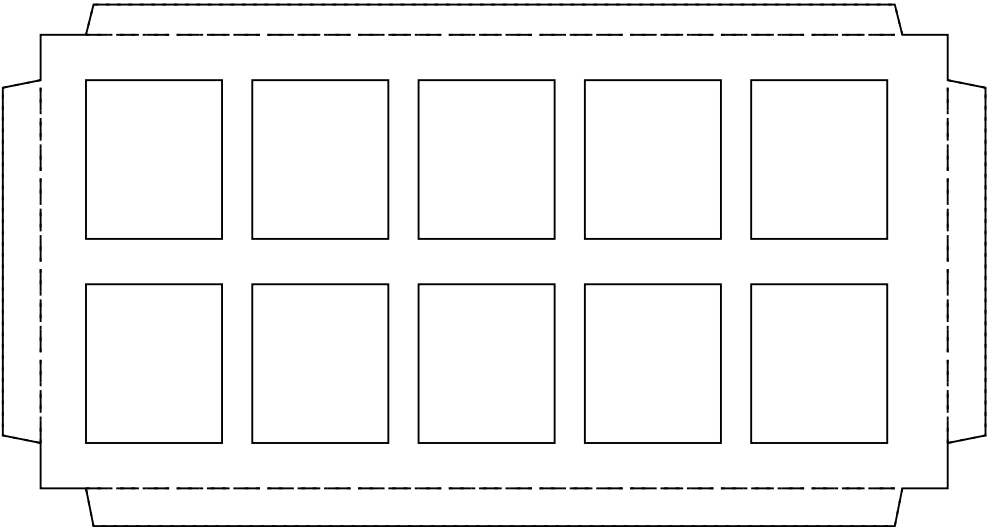
Open-frame Greenhouse

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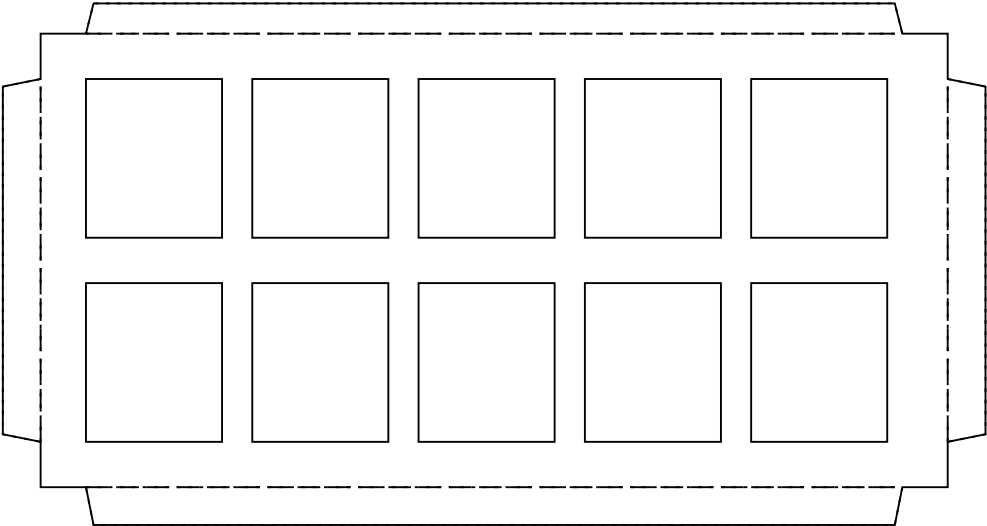
C | cut 1
120.00 x 8.00 mm



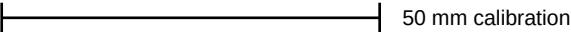
S2 | cut 1
130.00 x 69.00 mm



S1 | cut 1
130.00 x 69.00 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue

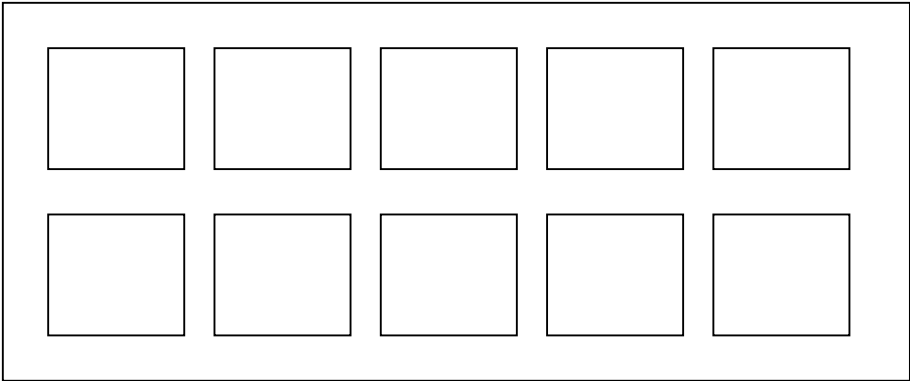


Print at 100% / Actual size. Do not fit to page. Original paper craft template.

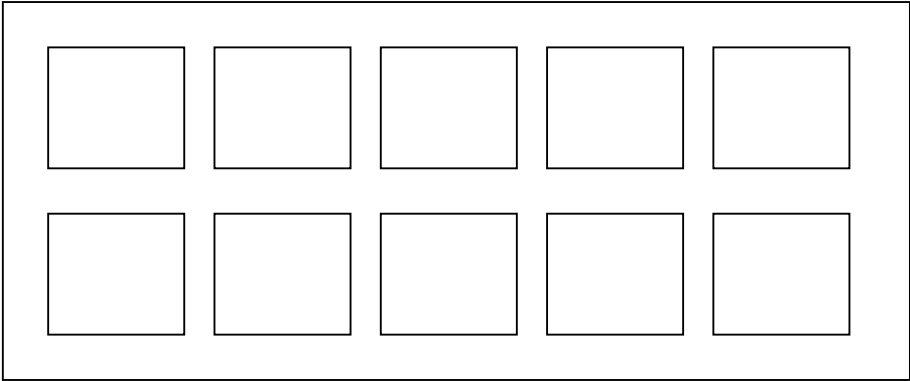
Open-frame Greenhouse

greenhouse / 1.0.0 / Letter / Template page 3

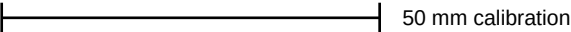
R2 | cut 1
120.00 x 50.00 mm



R1 | cut 1
120.00 x 50.00 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

Open-frame Greenhouse

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Finished size: 120 x 80 x 90 mm

Materials: 220-260 gsm cardstock; Craft knife and cutting mat; Metal ruler; Blunt scoring tool; PVA glue; Optional clear acetate or cellophane, 0.05-0.1 mm, and clear-film-compatible adhesive; not needed for the paper frame

Original template. Physical printing, cutting and assembly pending.

56 genuine holes: 20 side panes, 16 end panes including four triangular vents, and 20 roof panes. Minimum rectangular mullion width is 4 mm.

Paper-only open frame: no hidden glazing, wire or structural supports. The floor braces the four walls; the roof frames and ridge cap close the top.

All planes and tabs are piecewise rigid with exact flat correspondence. Zero-thickness preview omits cardstock/glue thickness and springback; mating glue surfaces coincide intentionally.

Optional transparent liners are supplemental material, not paper parts and not rendered. Fit them inside each frame before assembly; leave all tabs uncovered. This is a decorative miniature, not a working greenhouse.

Part inventory (cut each instance once):

F: Floor support 120 x 80

S1: Long wall frame

S2: Long wall frame

E1: Gable glazing frame

E2: Gable glazing frame

R1: Roof frame near slope

R2: Roof frame far slope

C: Ridge joining cap

1. Print and cut the frame openings [S1, S2, E1, E2, R1, R2]: Print at 100%; measure the 50 mm ruler. Cut all 56 enclosed pane outlines with a knife first, supporting each 4 mm mullion on the mat; then cut outer perimeters. Long walls have ten 18 x 21 mm holes each; ends have six 20 x 21 mm rectangles and two triangular holes each. Roofs have ten 18 x 16 mm holes each. Do not cut score lines.

2. Optional clear liners [S1, S2, E1, E2, R1, R2]: For optional glazing only, cut clear film: two 112 x 52 mm side liners, two 112 x 42 mm roof liners, and two pentagons with vertices (0,0), (72,0), (72,54), (36,81), (0,54) mm. Center side and roof liners 4 mm inside every frame edge. Set each end liner origin at (4,4) mm on its end frame. Bond to the interior frame faces with film-compatible adhesive, keeping all projecting tabs bare. Omit all film for the illustrated open-frame model.

3. Score the attachment tabs [S1, S2, E1, E2, C]: Cut C as 120 x 8 mm and score its center at 4 mm. Score every wall tab at its base. Bend 5 mm bottom and corner tabs inward 90 degrees. Bend the 4 mm long-wall top tabs inward 53.13 degrees from the upward wall extension, so they rise at 36.87 degrees above horizontal. Bend each 4 mm sloped gable tab inward 90 degrees into its roof plane. Mountain-fold C by 73.74 degrees from flat, giving a 106.26 degree interior roof angle.

4. Anchor both long walls [F, S1, S2]: Cut F to 120 x 80 mm. Stand S1 and S2 on its opposite 120 mm edges, with 60 mm eave height. Glue their 5 mm bottom tabs onto the top of F, pointing toward the center. Keep wall bases flush with floor edges, vertical and parallel; hold until set. Top tabs point toward the future ridge.

5. Close and square the gable ends [E1, E2, S1, S2, F]: Stand E1 and E2 on the remaining 80 mm floor edges. Glue their 5 mm bottom tabs onto F, pointing inward. Glue each long-wall corner tab against the inside of the adjacent gable, overlapping its 6 mm wide side

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border by 5 mm. Align wall bottoms and 60 mm eaves. The footprint must measure 120 x 80 mm, with equal diagonals about 144.22 mm; let all base and corner joints dry.

6. Attach the two pierced roof frames [R1, R2, S1, S2, E1, E2]: Place each 120 x 50 mm roof frame with its long eave edge flush to a long wall and its opposite edge at the ridge. Each 50 mm slope spans 40 mm horizontally and rises 30 mm: ridge height 90 mm. Glue the underside of each 6 mm eave border to the 4 mm long-wall top tab. Glue each roof end border onto the two corresponding 4 mm gable slope tabs. Keep all panes open and meet roof edges along the 120 mm ridge; there is no overhang.

7. Cap the ridge and let dry [C, R1, R2]: Glue C externally over the ridge, its center crease exactly on the roof seam and its ends flush with the gables. Each wing overlaps a roof by 4 mm measured down the slope, staying on the solid 6 mm ridge rail. Hold the roof at 36.87 degrees to the floor on both sides until set. Let glue dry fully before lifting by the floor; do not lift by mullions. Physical build verification is deferred.