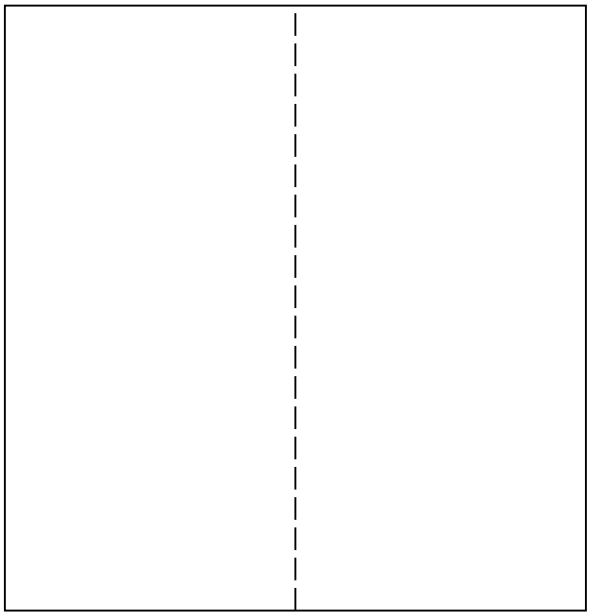
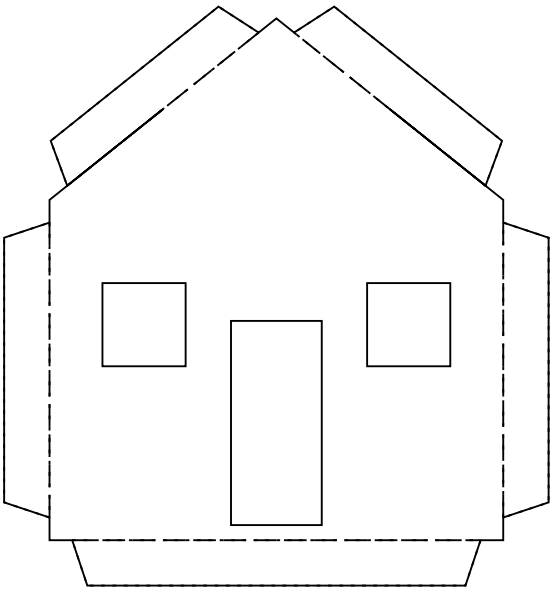
Folded Gable House

gable-house / 1.0.0 / A4 / Template page 1

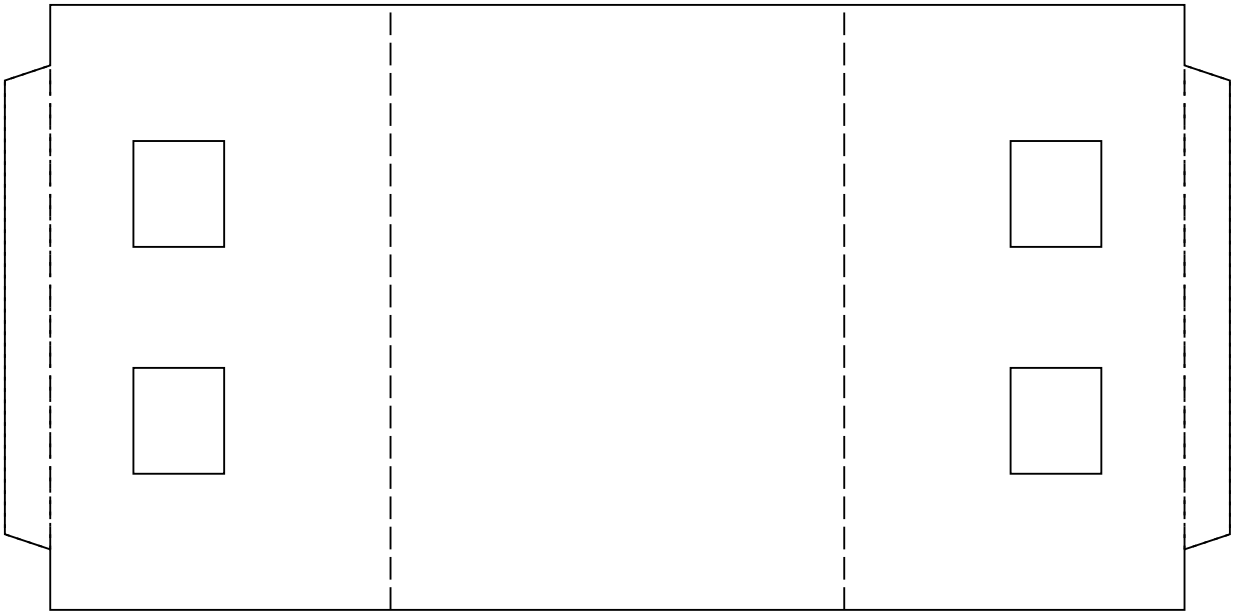
R1 | cut 1
76.84 x 80.00 mm



G1 | cut 1
72.00 x 76.56 mm



B1 | cut 1
162.00 x 80.00 mm



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

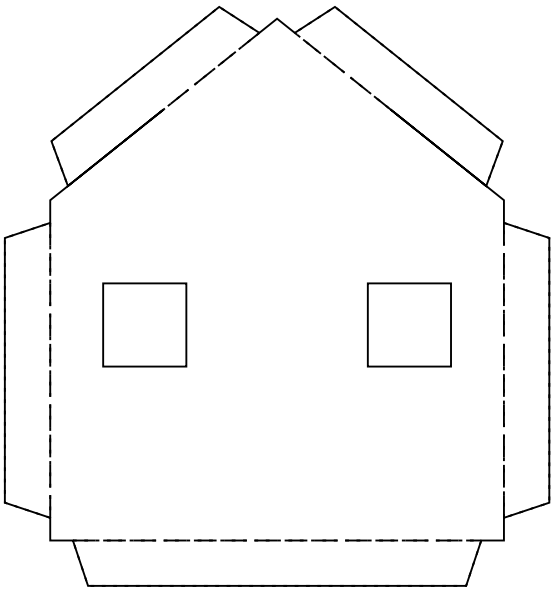
50 mm calibration

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

Folded Gable House

gable-house / 1.0.0 / A4 / Template page 2

G2 | cut 1
72.00 x 76.56 mm



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

50 mm calibration

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

Folded Gable House

gable-house / 1.0.0 / A4 / Assembly instructions

Finished size: 60 wide x 80 deep x 69 high mm

Materials: 160-200 gsm cardstock; Scissors; Craft knife and cutting mat for openings; Blunt scoring tool; Ruler; PVA glue; Tweezers

Original four-piece construction. Physical printing, cutting and assembly pending.

Print at 100%; check the 50 mm ruler. Template marks face the house interior; apply color to the reverse before assembly if desired.

All dashed lines are valley folds viewed from the printed interior side. Glue markings identify tabs; coat the reverse of each folded tab, which contacts the receiving panel.

Eight windows and one doorway are open holes. Keep the 2 mm doorway threshold for strength; there is no separate door leaf or glazing.

Exact piecewise-rigid, zero-thickness model, including all tabs. Glue contact surfaces coincide intentionally. Real cardstock thickness and glue clearance require physical verification.

Roof is flush with the gables and eaves, with no overhang. Do not stretch panels to make them meet.

Part inventory (cut each instance once):

B1: Floor and two windowed side walls

G1: Front gable and doorway

G2: Rear gable

R1: Two pitched roof slopes with ridge

1. Cut and score the floor net [B1]: Check print scale. Cut B1 perimeter and four rectangular window holes while flat. Score both 80 mm floor hinges and the two shorter eave-tab hinges. Keep the 6 mm tabs beyond the tops of the walls.

2. Raise the side walls [B1]: With printing upward, fold both walls up 90 degrees to make a U-shaped tray. The floor stays 60 x 80 mm. Fold each eave tab inward 51.34 degrees from the upward wall continuation: tabs point toward the ridge at 38.66 degrees above horizontal.

3. Prepare the front gable [G1]: Cut G1 including its two windows and doorway; preserve the 2 mm bottom threshold. Score all five tab bases. Fold every tab 90 degrees toward the printed interior. The bottom tab will lie on the floor; vertical tabs against side walls; sloping tabs underneath the roof.

4. Glue the front to the tray [B1, G1]: Dry-fit G1 at one 60 mm end of B1, apex up and printed face inward. Apply a thin layer of glue to the contact side of the bottom and two vertical tabs only. Seat the bottom tab on the inside floor and the side tabs inside the walls with 6 mm overlap. Align the cut panel edges flush, keep the doorway upright, and hold square until set.

5. Close the rear wall [G2, B1]: Cut G2 and its two windows; score and fold its five tabs inward 90 degrees. Fit it at the opposite end, apex up. Glue the bottom and vertical tabs inside B1 as for G1. Leave both sloping roof tabs unglued. Check that the floor is rectangular and both apexes are 69 mm above it; let the wall shell dry before roofing.

6. Fold and dry-fit the roof [R1, G1, G2]: Cut R1 and score its central 80 mm ridge. With printing underneath, valley-fold the interior ridge through 77.32 degrees from flat, leaving a 102.68 degree interior ridge angle. Each roof slope is 38.42 mm wide. Dry-fit over both gables: ridge meets both apexes, long edges meet the wall tops, and short edges are flush with the gables.

7. Attach the first roof slope [R1, B1, G1, G2]: Lift R1. Glue only the left eave tab and the left sloping tab of each gable, on the surfaces facing the roof underside. Seat the left roof slope on all three tabs with 6 mm overlap. Keep the other slope raised for access; press the joints from inside and outside with tweezers, without bending the walls. Let this side set.

8. Close the roof [R1, B1, G1, G2]: Apply glue to the remaining eave tab and two right gable roof tabs. Lower the free slope about the ridge, align the eave and both gable edges flush, and hold gently until set. Use a blunt tool through the doorway or windows to support a tab if needed. Allow to dry fully; inspect all twelve tab joins. Physical assembly is still pending, not certified by the digital preview.