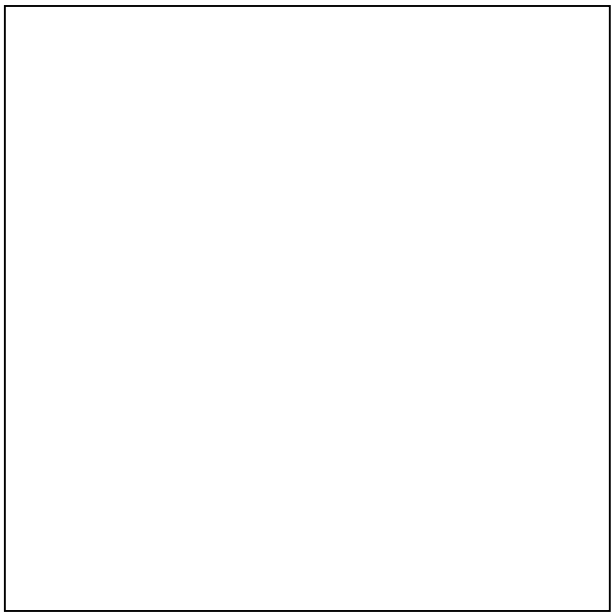
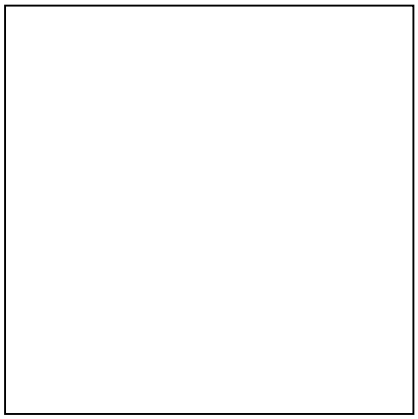
Civic Clock Tower

clock-tower / 1.0.0 / A4 / Template page 1

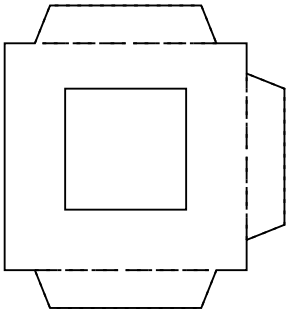
B | cut 1
80.00 x 80.00 mm



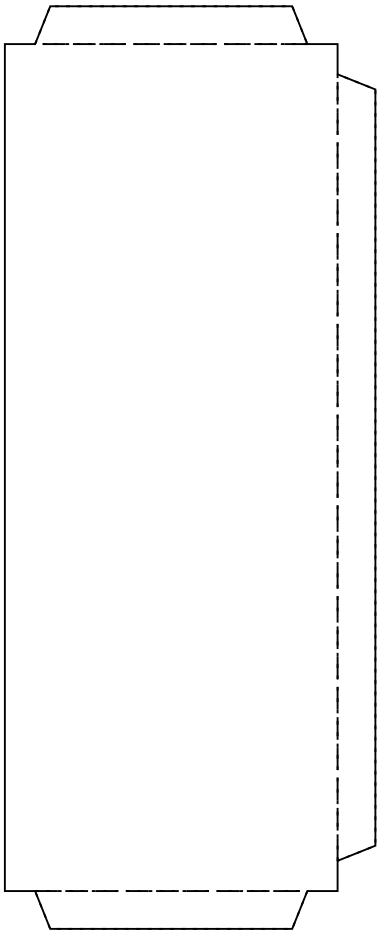
D | cut 1
54.00 x 54.00 mm



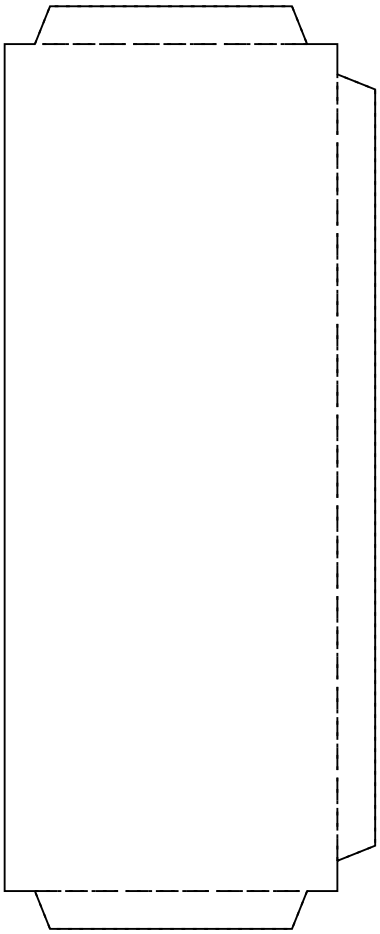
L1 | cut 1
37.00 x 40.00 mm



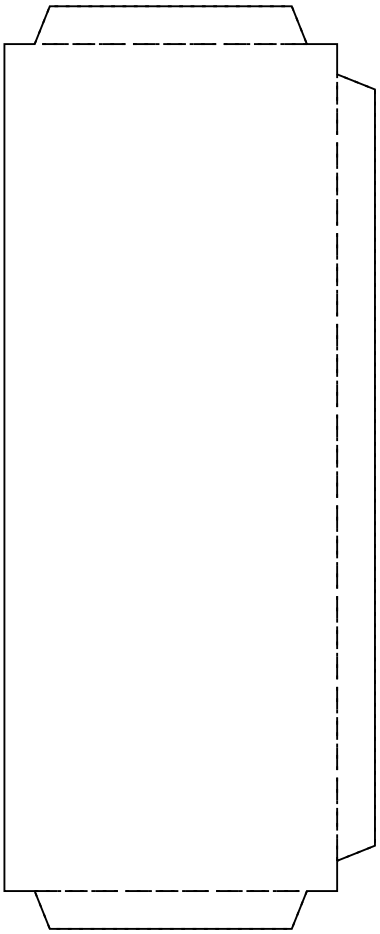
W1 | cut 1
49.00 x 122.00 mm



W2 | cut 1
49.00 x 122.00 mm



W3 | cut 1
49.00 x 122.00 mm



M | cut 1
2.60 x 15.00 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.

Civic Clock Tower

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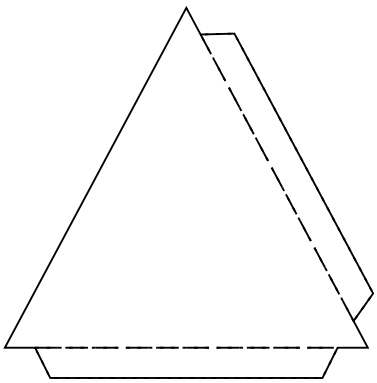
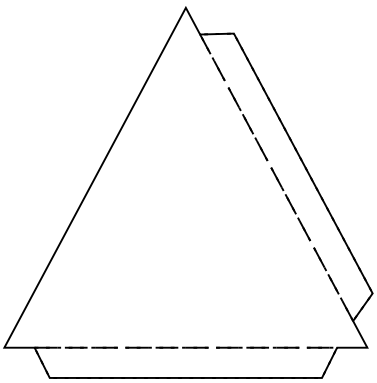
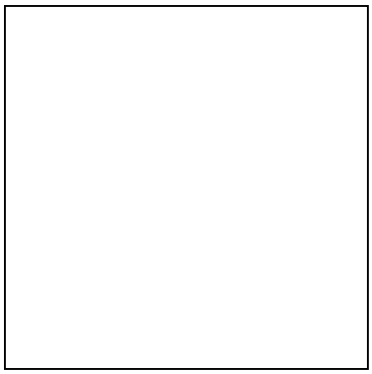
R3 | cut 1
48.70 x 48.94 mm



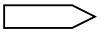
R4 | cut 1
48.70 x 48.94 mm



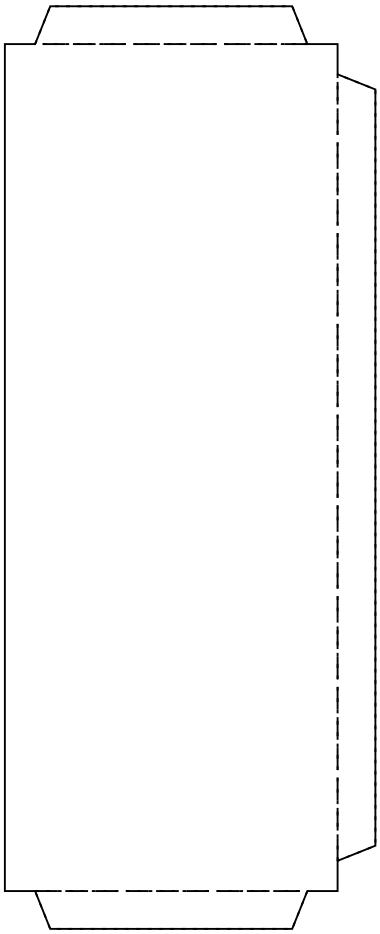
E | cut 1
48.00 x 48.00 mm



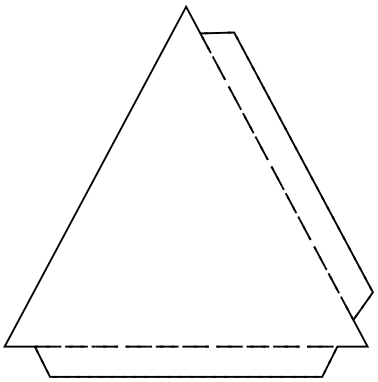
H | cut 1
12.00 x 3.00 mm



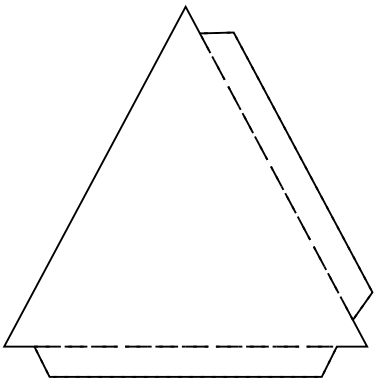
W4 | cut 1
49.00 x 122.00 mm



R1 | cut 1
48.70 x 48.94 mm



R2 | cut 1
48.70 x 48.94 mm



K | cut 1
4.00 x 4.00 mm

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

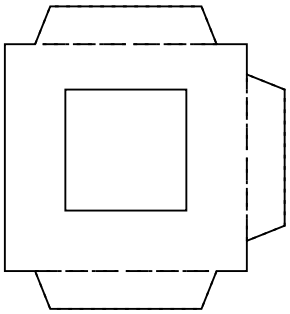
50 mm calibration

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

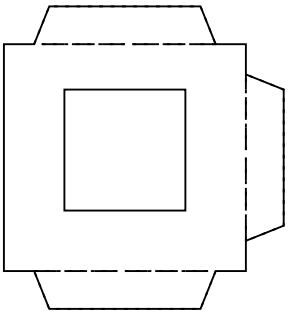
Civic Clock Tower

clock-tower / 1.0.0 / A4 / Template page 3

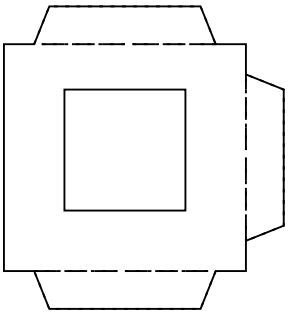
L2 | cut 1
37.00 x 40.00 mm



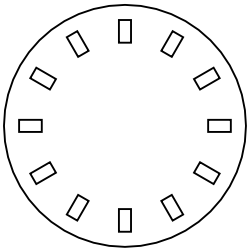
L3 | cut 1
37.00 x 40.00 mm



L4 | cut 1
37.00 x 40.00 mm



C | cut 1
32.00 x 32.00 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.

Civic Clock Tower

clock-tower / 1.0.0 / A4 / Assembly instructions

Finished size: 80 x 80 x 180 mm; shaft 44 mm square; belfry 32 mm square

Materials: 200-240 gsm cardstock; PVA glue; Scissors; Craft knife and cutting mat; Ruler and blunt scoring tool; Pencil; Tweezers

Original decorative static clock: fixed paper hands show 3:00, with no working mechanism or bell.

Physical print-cut-fold-glue and stability verification pending. Screen review deferred.

All walls, tabs and roof facets have exact rigid flat correspondence. Paper and glue thickness are idealized; dial layers use 0.25 mm display separation. Hand-fit seams without stretching.

The 80 mm foundation, enclosed shaft, full deck, four window piers and roof bearing plate provide a continuous support path. This is a lightweight indoor ornament, not a load-bearing structure.

PDF outlines are monochrome: color the dial ivory, hands dark and tower tan before assembly if desired. The twelve cutout indices remain real geometry, not a preview-only texture.

Part inventory (cut each instance once):

B: 80 mm square foundation

W1: W1: 44 x 112 wall

W2: W2: 44 x 112 wall

W3: W3: 44 x 112 wall

W4: W4: 44 x 112 wall

D: 54 mm belfry deck

L1: L1: 32 x 30 wall

L2: L2: 32 x 30 wall

L3: L3: 32 x 30 wall

L4: L4: 32 x 30 wall

E: 48 mm roof bearing plate

R1: Roof 1: 48 mm eave

R2: Roof 2: 48 mm eave

R3: Roof 3: 48 mm eave

R4: Roof 4: 48 mm eave

C: 32 mm clock dial; remove 12 index windows

M: Minute hand: points to twelve

H: Hour hand: points to three

K: 4 mm central hub

1. Cut and score [B, W1, W2, W3, W4, D, L1, L2, L3, L4, E, R1, R2, R3, R4, C, M, H, K]: Print at 100% actual size. Cut all 19 pieces, keeping tabs. Remove the twelve small index windows from C and the 16 x 16 mm openings in L1-L4 before cutting outside edges. Score all dashed tab roots. Printed wall faces are interiors; dial and hands face outward.

2. Assemble the static dial [W1, C, M, H, K]: On the exterior of W1 mark a center 22 mm from either side and 87 mm above its bottom. Glue C centered there, with one index at twelve. Glue the whole back of M pointing upward and H pointing right, both

centered at that mark. Add K over the hand roots. This permanently displays 3:00; no pivot, mechanism or moving hands is supplied. Let dry flat.

3. Fold shaft tabs [W1, W2, W3, W4]: Valley-fold all W1-W4 tabs inward 90 degrees with printed interior toward you. Bottom and top tabs are 5 mm deep, with 36 mm roots; the right seam tab is 5 mm deep with a 104 mm root. Ends have 4 mm relief and 2 mm bevels. Keep the main 44 x 112 mm panels flat.

4. Join square shaft [W1, W2, W3, W4]: Glue the right tab of W1 behind the left edge of W2, W2 behind W3, W3 behind W4, then W4 behind W1. Use the full 5 mm overlap and align all bottoms. Hold corners at 90 degrees; the shaft is 44 mm square with a 62.23 mm diagonal. Press seams through the open ends and allow to set.

5. Attach the upper deck first [D, W1, W2, W3, W4]: Apply glue to the upward-facing top tabs. Center D on the shaft at height 112 mm, leaving 5 mm overhang on each side. Press from inside through the still-open bottom. Dry before proceeding.

6. Anchor the foundation [B, W1, W2, W3, W4]: Mark a centered 44 mm square on B, inset 18 mm from every edge. Glue the downward-facing bottom tabs to B inside this square. Keep the tower upright and the foundation flat while drying; the inward feet occupy a 5 mm band inside the shaft.

7. Form the open belfry [L1, L2, L3, L4]: Valley-fold all L tabs inward 90 degrees: 5 mm deep, 24 mm roots at top and bottom, 22 mm roots on right seams. Join L1 to L2 to L3 to L4 to L1 with 5 mm corner overlaps, keeping the four 8 mm-wide window piers straight. The windows run from 8 to 24 mm above the deck. Let the 32 mm square tube set.

8. Support and cap the belfry [D, L1, L2, L3, L4, E]: First glue E onto the L top tabs, centered with an 8 mm overhang on every side; press from the open bottom. After drying, glue the L bottom tabs to D in a centered 32 mm square, inset 11 mm from the deck edges. Press feet through the real window openings with tweezers. E now sits at 142 mm height and supports the roof.

9. Fold roof seams [R1, R2, R3, R4]: The four roof triangles have 48 mm eaves, 44.944 mm face altitude and 50.951 mm rising edges. With printed interior up, fold each 4 mm eave tab inward by 122.28 degrees from flat, and each right rising-edge tab inward by 73.43 degrees from flat. Each seam root stops 4 mm before its ends; bevels retreat another 2 mm. Dry-fit before gluing.

10. Join pointed roof [R1, R2, R3, R4]: Glue the right rising-edge tab of R1 under R2, R2 under R3, R3 under R4, and R4 under R1, each with 4 mm overlap. Match full edges and all four tips at one apex. Keep the underside open for finger or tweezer access; dry the shell with a square 48 mm footprint and 38 mm rise.

11. Seat roof and cure [E, R1, R2, R3, R4, B]: Glue the downward-facing roof eave tabs onto the top of E, matching the four 48 mm eaves to its perimeter. The apex is at 180 mm above B. Hold lightly at the eaves until set, then cure upright on a level surface. Handle by the foundation, not the spire. Physical printing, assembly and stability remain pending.