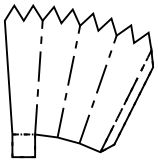
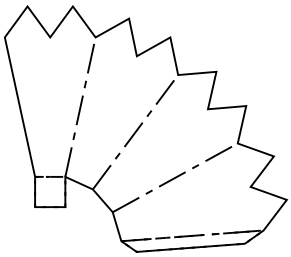
Blue Cornflower

cornflower / 1.0.0 / A4 / Template page 1

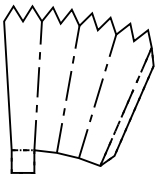
C7 | cut 1
19.61 x 20.04 mm



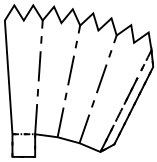
F8 | cut 1
37.29 x 32.46 mm



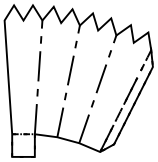
C1 | cut 1
19.78 x 22.03 mm



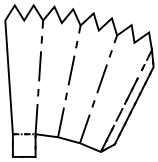
C2 | cut 1
19.61 x 20.04 mm



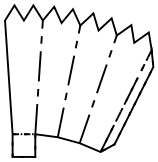
C3 | cut 1
19.61 x 20.04 mm



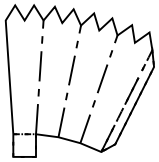
C4 | cut 1
19.61 x 20.04 mm



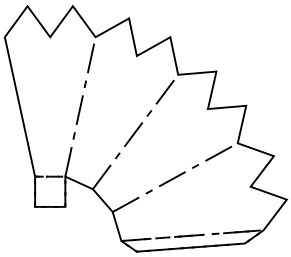
C5 | cut 1
19.61 x 20.04 mm



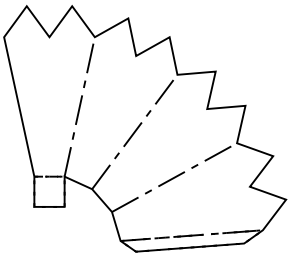
C6 | cut 1
19.61 x 20.04 mm



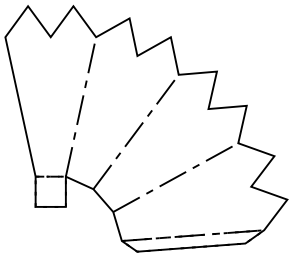
F4 | cut 1
37.29 x 32.46 mm



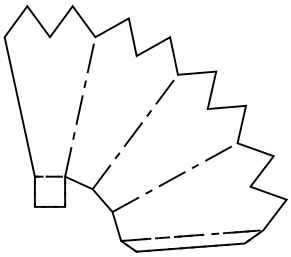
F5 | cut 1
37.29 x 32.46 mm



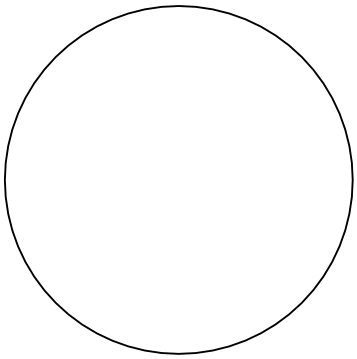
F6 | cut 1
37.29 x 32.46 mm



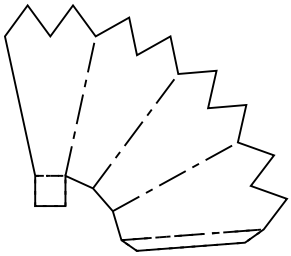
F7 | cut 1
37.29 x 32.46 mm



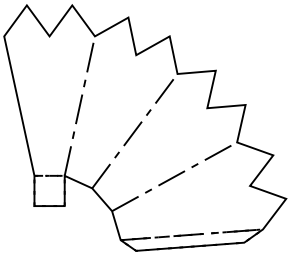
B1 | cut 1
46.00 x 46.00 mm



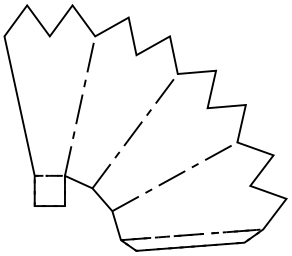
F1 | cut 1
37.29 x 32.46 mm



F2 | cut 1
37.29 x 32.46 mm



F3 | cut 1
37.29 x 32.46 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.

Blue Cornflower

cornflower / 1.0.0 / A4 / Assembly instructions

Finished size: Approximately 54 x 54 x 22.2 mm; stemless flower head

Materials: Blue 100-120 gsm paper for F1-F8; Violet-blue 100-120 gsm paper for C1-C7; Green 200 gsm card for B1; Fine scissors or craft knife and cutting mat; Scoring tool, ruler, tweezers and thin PVA glue

Original faceted botanical interpretation, not smooth natural petals. Each of 15 trumpets has four rigid walls, eight cut teeth, a seam flap and an integral bottom mounting flap.

All surfaces, teeth and glue flaps have exact flat-vertex correspondence. Zero-thickness paper idealization: glued layers coincide; real paper thickness and glue are not simulated.

Print 100% and check the 50 mm ruler. Templates are monochrome: use the specified colored stock. Cut one of each ID, 16 pieces total.

Digital validation is not physical approval. Screen review and actual printing, cutting and assembly remain pending. No stem or hidden wire is required.

Part inventory (cut each instance once):

B1: Green flower-head backing

F1: Toothed trumpet F1

F2: Toothed trumpet F2

F3: Toothed trumpet F3

F4: Toothed trumpet F4

F5: Toothed trumpet F5

F6: Toothed trumpet F6

F7: Toothed trumpet F7

F8: Toothed trumpet F8

C1: Toothed trumpet C1

C2: Toothed trumpet C2

C3: Toothed trumpet C3

C4: Toothed trumpet C4

C5: Toothed trumpet C5

C6: Toothed trumpet C6

C7: Toothed trumpet C7

1. Prepare the backing and locate the floret feet [B1]: Cut B1 (46 mm diameter). With pencil mark its center, eight points at radius 20 mm every 45 degrees, and six points at radius 8 mm every 60 degrees. Use the rightmost point as zero degrees. These are centers of square bottom flaps, not outer mouth edges.

2. Score and close the eight blue trumpets [F1, F2, F3, F4, F5, F6, F7, F8]: Cut F1-F8 including each seam and bottom flap; carefully cut the eight teeth without extra slits. Score dash-dot hinges. Printed side stays outside. Fold each long wall hinge inward by 87.3 degrees from flat (inside dihedral 92.7 degrees). Close to a 4 mm square foot and a 12 mm square mouth 18 mm above it; tooth tips rise to 22 mm. Put a thin film of PVA on the seam flap, tuck it INSIDE the first wall with its edges aligned and its full 1.6 mm maximum width overlapped. Hold with tweezers 45 seconds and let set 5 minutes. Keep teeth planar with their walls.

3. Mount the outer blue ring [F1, F2, F3, F4, F5, F6, F7, F8, B1]: Fold each 4 x 4 mm bottom flap inward 102.5 degrees from flat so it

closes the foot horizontally. Glue only its underside to B1. Center F1-F8 at the eight radius-20 mm marks in counterclockwise order. For each trumpet rotate its square so a side normal points radially outward; all axes remain vertical. Adjacent teeth must stay separate; do not squeeze the mouths together. Press each foot using tweezers through its open mouth, then dry 10 minutes.

4. Fold the violet-blue center trumpets [C1, C2, C3, C4, C5, C6, C7]: Cut C1-C7, preserving both glue flaps and all eight teeth per piece. Fold wall hinges inward about 89.8 degrees from flat and glue each 1.2 mm-wide seam flap under the first wall. Feet are 3 mm squares and mouths 5 mm squares. C1 mouth is 17 mm high, C2-C7 mouths 15 mm high; teeth add 2 mm. Fold bottom flaps inward 93.4 degrees on C1 and 93.8 degrees on C2-C7 to close horizontally. Hold seams 45 seconds; dry 5 minutes.

5. Install the dense center and dry [C1, C2, C3, C4, C5, C6, C7, B1]: Glue the underside of C1 bottom flap onto the B1 center mark. Place C2-C7 at the six radius-8 mm marks counterclockwise from the rightmost mark. Orient a square side normal outward, keep all tubes vertical, and press their 3 x 3 mm feet down through the mouths with tweezers. Leave the tooth tips unglued. Let the complete head dry flat for 20 minutes before lifting by the backing. Check each foot and seam; record any cutting or fitting difficulty during the pending physical trial.