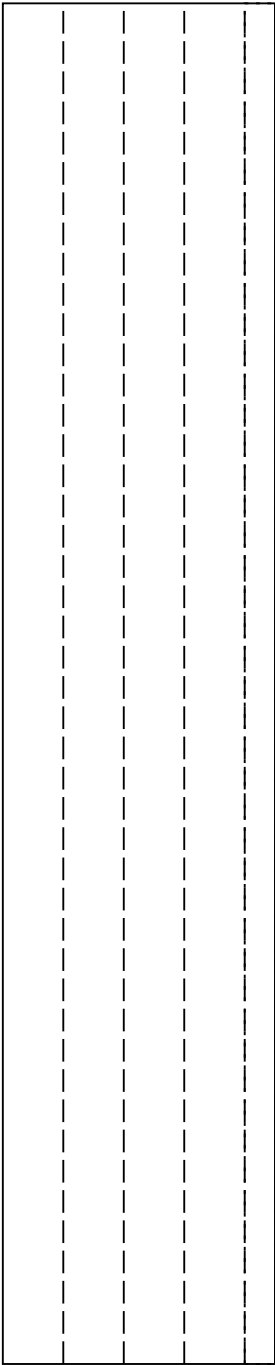


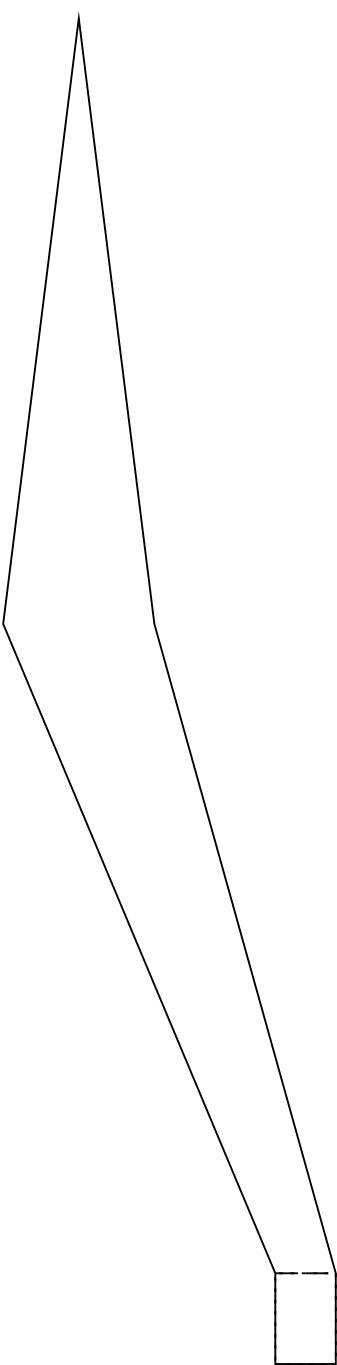
Gladiolus upright flower spike

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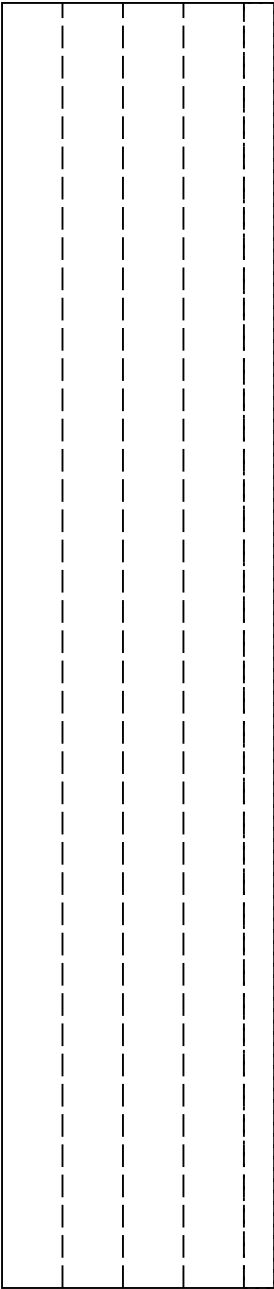
S1 | cut 1
36.00 x 180.00 mm



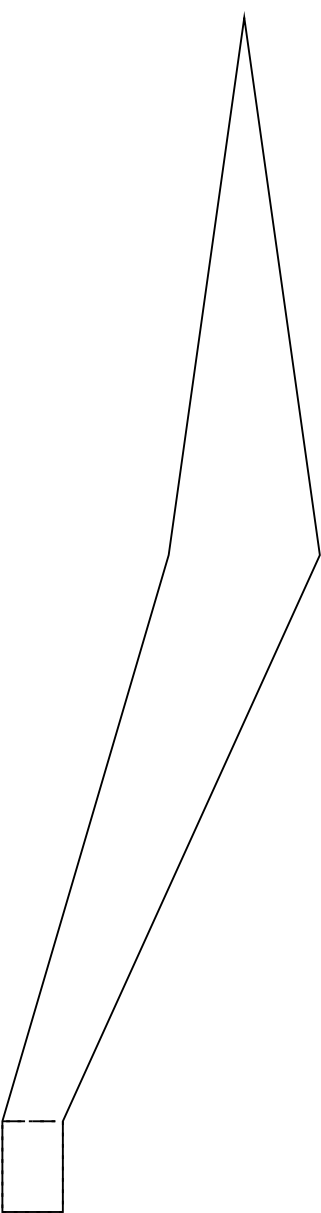
L1 | cut 1
44.00 x 178.00 mm



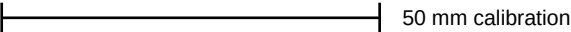
S2 | cut 1
36.00 x 170.00 mm



L2 | cut 1
42.00 x 158.00 mm



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

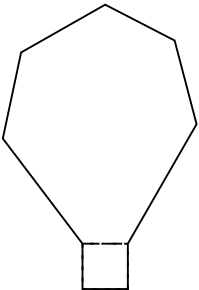


Print at 100% / Actual size. Do not fit to page. Original paper craft template.

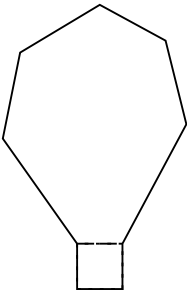
Gladiolus upright flower spike

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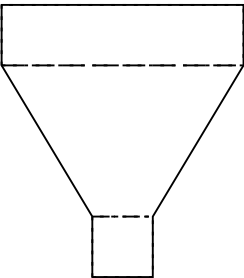
F2_3 | cut 1
25.63 x 37.62 mm



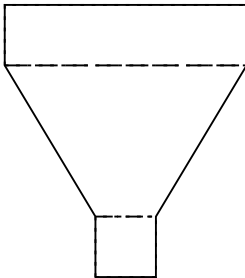
F4_1 | cut 1
24.28 x 37.60 mm



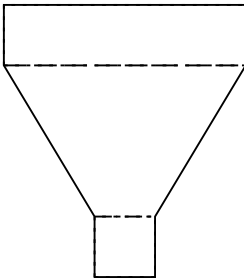
M1 | cut 1
32.00 x 36.00 mm



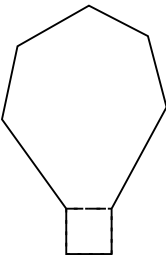
M2 | cut 1
32.00 x 36.00 mm



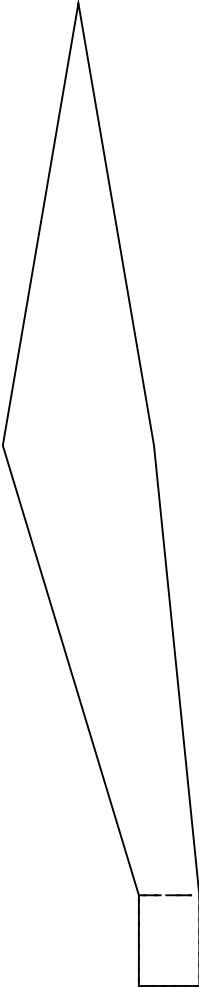
M3 | cut 1
32.00 x 36.00 mm



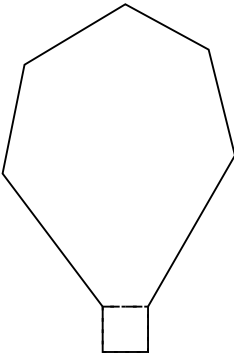
F4_3 | cut 1
21.77 x 32.86 mm



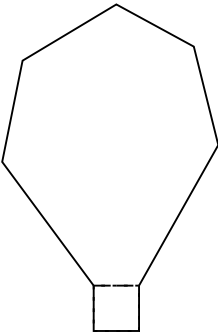
L3 | cut 1
26.00 x 130.00 mm



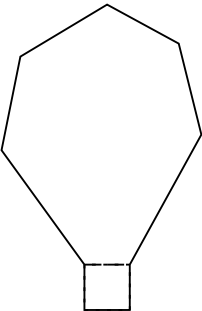
F1_1 | cut 1
30.74 x 46.00 mm



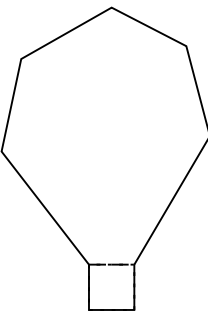
F2_1 | cut 1
28.59 x 43.20 mm



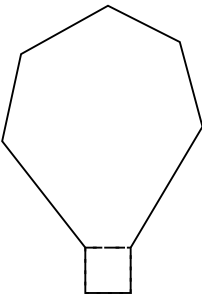
F3_1 | cut 1
26.44 x 40.40 mm



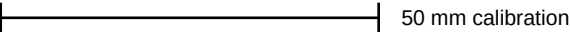
F1_3 | cut 1
27.56 x 40.00 mm



F1_2 | cut 1
26.50 x 38.00 mm



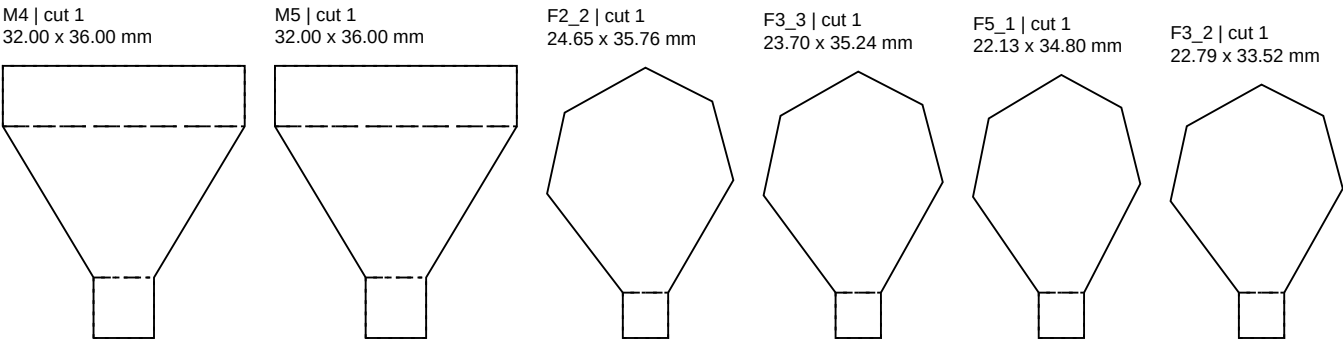
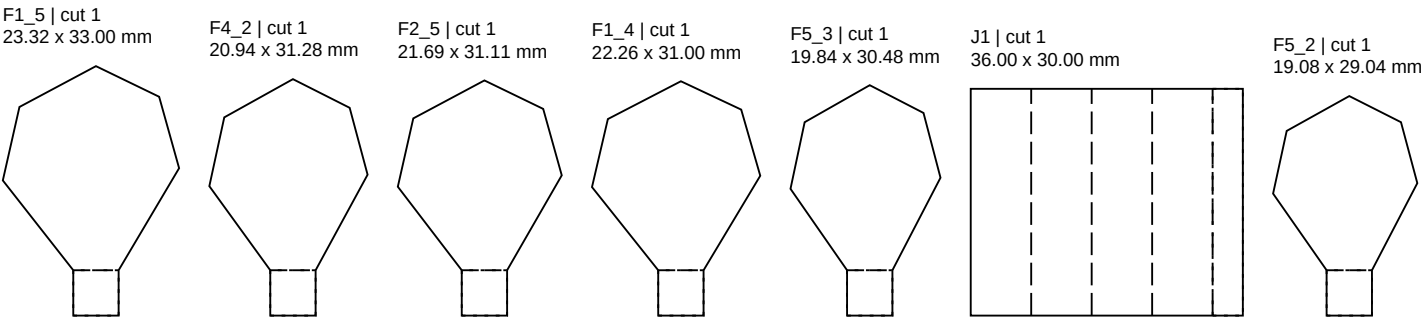
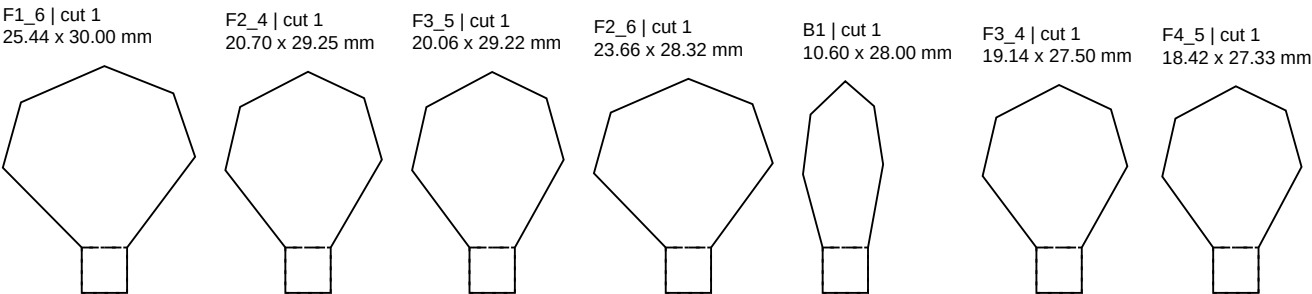
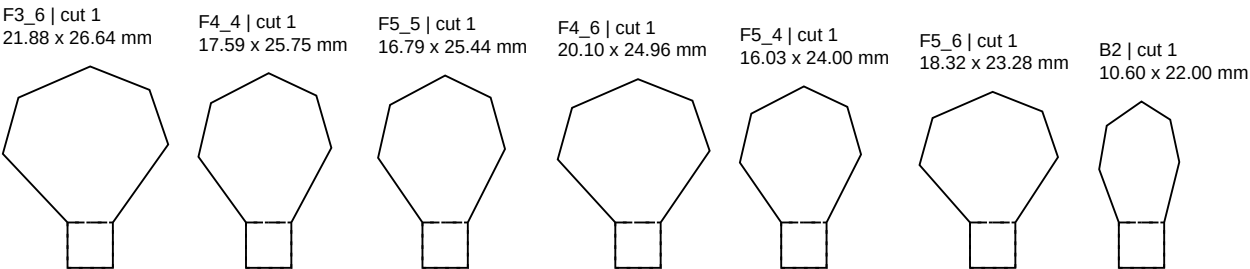
Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



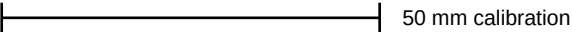
Print at 100% / Actual size. Do not fit to page. Original paper craft template.

Gladiolus upright flower spike

gladiolus / 1.0.1 / Letter / Template page 3



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



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

Gladiolus upright flower spike

gladiolus / 1.0.1 / Letter / Assembly instructions

Finished size: Nominal illustrated paper envelope: 78.0 wide x 51.1 deep x 359.2 high mm (XYZ), including the lowest 30 mm held in the clamp; 329.2 mm above clamp jaws. External clamp excluded

Materials: 200 gsm green cardstock for stem, splice collar and mounting shelves; 120-140 gsm pink and pale peach paper for flowers; green paper for leaves and buds; PVA glue, scissors, scoring tool, ruler and protractor; External padded craft clamp fixed upright to a stable desk (required display support)

Original faceted interpretation: asymmetric six-tepal flowers climb a straight 350 mm spike, rather than a bent freesia raceme. Alternating left/right centers and hood directions are intentional.

All 43 physical paper pieces have exact flat-face correspondence, including seam laps and shelf tabs. Petals are hinged planar facets, not simulated organic stretched surfaces.

Zero-thickness model: glued layers and splice collar coincide ideally. Real card thickness, glue film, crease springback and stem stiffness require physical adjustment and validation.

External padded clamp is mandatory for upright display and is explicitly not represented as a paper part. The model is not freestanding. No wire or hidden internal supports are assumed.

Generation-only digital prototype. Physical printing, cutting, assembly and load stability are pending.

Part inventory (cut each instance once):

S1: Square stem

S2: Square stem

J1: Stem splice collar

L1: Sword leaf

L2: Sword leaf

L3: Sword leaf

M1: Flared bloom shelf

F1_1: Flared tepal

F1_2: Flared tepal

F1_3: Flared tepal

F1_4: Flared tepal

F1_5: Flared tepal

F1_6: Flared tepal

M2: Flared bloom shelf

F2_1: Flared tepal

F2_2: Flared tepal

F2_3: Flared tepal

F2_4: Flared tepal

Gladiolus upright flower spike

gladiolus / 1.0.1 / Letter / Assembly instructions continued

F2_5: Flared tepal

F2_6: Flared tepal

M3: Flared bloom shelf

F3_1: Flared tepal

F3_2: Flared tepal

F3_3: Flared tepal

F3_4: Flared tepal

F3_5: Flared tepal

F3_6: Flared tepal

M4: Flared bloom shelf

F4_1: Flared tepal

F4_2: Flared tepal

F4_3: Flared tepal

F4_4: Flared tepal

F4_5: Flared tepal

F4_6: Flared tepal

M5: Flared bloom shelf

F5_1: Flared tepal

F5_2: Flared tepal

F5_3: Flared tepal

F5_4: Flared tepal

F5_5: Flared tepal

F5_6: Flared tepal

B1: Flared tepal

B2: Flared tepal

1. Cut and score at actual size [S1, S2]: Print at 100%; check the 50 mm ruler. Cut one of every numbered piece. Use 200 gsm green card for stem, collars and shelves; 120-140 gsm for flowers. Score dashed folds before assembly. S1 and S2 are 36 mm wide nets: four 8 mm faces plus a 4 mm seam.

2. Make the straight 350 mm stem [S1, S2, J1]: Valley-fold S1 and S2 by 90 degrees at x=8,16,24,32 mm. Glue the final 4 mm lap inside the first face to form two open square tubes. Dry flat and straight. Butt S2 above S1 at height 180 mm. Fold J1 the same way around the joint, covering heights 165-195 mm, and glue its inner faces to both tubes plus its 4 mm seam. Wrap J1 around the real card thickness rather than crushing the stem. Let dry fully. Hold the lowest 30 mm in an external padded upright craft clamp fixed to a stable desk; the clamp is required, not included in the paper template or preview.

Gladiolus upright flower spike

gladiolus / 1.0.1 / Letter / Assembly instructions continued

3. Attach the long sword leaves [L1, L2, L3]: L1/L2/L3 have 12 mm basal tabs and blade-tip distances of 178/158/130 mm from their lower edges. Valley-fold each blade 12 degrees forward at the tab line. Glue the flat tabs onto the front stem face with lower edges at 32/40/52 mm respectively. L1 leans left, L2 right, L3 slightly left. Overlapping tab ends are intentional. Dry before adding blooms.
4. Mount bloom 1 at 144 mm [M1]: On M1, fold the 8 x 8 mm back tab downward 90 degrees from the trapezoid shelf, and the 32 x 8 mm front lip upward 90 degrees. Glue the back tab to the front stem face from height 136 to 144 mm. The shelf projects 20 mm horizontally forward. Keep it level and let dry. Its front lip is the real flower mount.
5. Flare and attach six tepals of bloom 1 [F1_1, F1_2, F1_3, F1_4, F1_5, F1_6]: Each F1_1 through F1_6 has a 6 x 6 mm basal glue tab. Valley-fold the blade 35 degrees out of the tab plane along its 6 mm hinge; do not curl or stretch. On the front of M1, mark a center 9 mm left of its midpoint and 4 mm above the shelf. Place each tab with its base-edge midpoint on this mark, extending radially outward. Point F1_1 upward, rotated 14 degrees clockwise when viewed from the flower front. Relative to that hood, arrange lobes 2/3 at +65/-65 degrees, 4/5 at +125/-125 degrees and lip 6 at 180 degrees (positive is counterclockwise). Glue tabs to the green lip and to adjacent tabs where they overlap; some tab ends project beyond the lip. Keep the blades free. Glue the pale lower lip last. Hold until set before proceeding upward.
6. Mount bloom 2 at 184 mm [M2]: On M2, fold the 8 x 8 mm back tab downward 90 degrees from the trapezoid shelf, and the 32 x 8 mm front lip upward 90 degrees. Glue the back tab to the front stem face from height 176 to 184 mm. The shelf projects 20 mm horizontally forward. Keep it level and let dry. Its front lip is the real flower mount.
7. Flare and attach six tepals of bloom 2 [F2_1, F2_2, F2_3, F2_4, F2_5, F2_6]: Each F2_1 through F2_6 has a 6 x 6 mm basal glue tab. Valley-fold the blade 35 degrees out of the tab plane along its 6 mm hinge; do not curl or stretch. On the front of M2, mark a center 9 mm right of its midpoint and 4 mm above the shelf. Place each tab with its base-edge midpoint on this mark, extending radially outward. Point F2_1 upward, rotated 14 degrees counterclockwise when viewed from the flower front. Relative to that hood, arrange lobes 2/3 at +65/-65 degrees, 4/5 at +125/-125 degrees and lip 6 at 180 degrees (positive is counterclockwise). Glue tabs to the green lip and to adjacent tabs where they overlap; some tab ends project beyond the lip. Keep the blades free. Glue the pale lower lip last. Hold until set before proceeding upward.
8. Mount bloom 3 at 224 mm [M3]: On M3, fold the 8 x 8 mm back tab downward 90 degrees from the trapezoid shelf, and the 32 x 8 mm front lip upward 90 degrees. Glue the back tab to the front stem face from height 216 to 224 mm. The shelf projects 20 mm horizontally forward. Keep it level and let dry. Its front lip is the real flower mount.
9. Flare and attach six tepals of bloom 3 [F3_1, F3_2, F3_3, F3_4, F3_5, F3_6]: Each F3_1 through F3_6 has a 6 x 6 mm basal glue tab. Valley-fold the blade 35 degrees out of the tab plane along its 6 mm hinge; do not curl or stretch. On the front of M3, mark a center 9 mm left of its midpoint and 4 mm above the shelf. Place each tab with its base-edge midpoint on this mark, extending radially outward. Point F3_1 upward, rotated 14 degrees clockwise when viewed from the flower front. Relative to that hood, arrange lobes 2/3 at +65/-65 degrees, 4/5 at +125/-125 degrees and lip 6 at 180 degrees (positive is counterclockwise). Glue tabs to the green lip and to adjacent tabs where they overlap; some tab ends project beyond the lip. Keep the blades free. Glue the pale lower lip last. Hold until set before proceeding upward.
10. Mount bloom 4 at 264 mm [M4]: On M4, fold the 8 x 8 mm back tab downward 90 degrees from the trapezoid shelf, and the 32 x 8 mm front lip upward 90 degrees. Glue the back tab to the front stem face from height 256 to 264 mm. The shelf projects 20 mm horizontally forward. Keep it level and let dry. Its front lip is the real flower mount.
11. Flare and attach six tepals of bloom 4 [F4_1, F4_2, F4_3, F4_4, F4_5, F4_6]: Each F4_1 through F4_6 has a 6 x 6 mm basal glue tab. Valley-fold the blade 35 degrees out of the tab plane along its 6 mm hinge; do not curl or stretch. On the front of M4, mark a center 9 mm right of its midpoint and 4 mm above the shelf. Place each tab with its base-edge midpoint on this mark, extending radially outward. Point F4_1 upward, rotated 14 degrees counterclockwise when viewed from the flower front. Relative to that hood, arrange lobes 2/3 at +65/-65 degrees, 4/5 at +125/-125 degrees and lip 6 at 180 degrees (positive is counterclockwise). Glue tabs to the green lip and to adjacent tabs where they overlap; some tab ends project beyond the lip. Keep the blades free. Glue the pale lower lip last. Hold until set before proceeding upward.
12. Mount bloom 5 at 301 mm [M5]: On M5, fold the 8 x 8 mm back tab downward 90 degrees from the trapezoid shelf, and the 32 x 8

Gladiolus upright flower spike

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mm front lip upward 90 degrees. Glue the back tab to the front stem face from height 293 to 301 mm. The shelf projects 20 mm horizontally forward. Keep it level and let dry. Its front lip is the real flower mount.

13. Flare and attach six tepals of bloom 5 [F5_1, F5_2, F5_3, F5_4, F5_5, F5_6]: Each F5_1 through F5_6 has a 6 x 6 mm basal glue tab. Valley-fold the blade 35 degrees out of the tab plane along its 6 mm hinge; do not curl or stretch. On the front of M5, mark a center 9 mm left of its midpoint and 4 mm above the shelf. Place each tab with its base-edge midpoint on this mark, extending radially outward. Point F5_1 upward, rotated 14 degrees clockwise when viewed from the flower front. Relative to that hood, arrange lobes 2/3 at +65/-65 degrees, 4/5 at +125/-125 degrees and lip 6 at 180 degrees (positive is counterclockwise). Glue tabs to the green lip and to adjacent tabs where they overlap; some tab ends project beyond the lip. Keep the blades free. Glue the pale lower lip last. Hold until set before proceeding upward.

14. Finish the tapered bud tip [B1, B2]: Fold B1 and B2 outward 18 degrees at their 6 mm tab lines. Glue their basal tabs to the front stem at heights 324 and 339 mm; point B1 18 degrees right and B2 18 degrees left of vertical, seen from the front. These narrow closed-bud silhouettes finish the straight spike. Leave the external clamp on the bottom 30 mm for display. Let all joints cure before moving.