

3D Slab Assembly Templates

SAH Studio — cut the pieces, join them, build the form

How this set works

Each form below is built from several flat pieces — a base plus one or more walls — cut separately from a clay slab and joined edge-to-edge with the score-and-slip method.

Every piece page shows its cutting outline plus small lettered tags on its edges.

Two pieces join wherever they carry the same letter (all “A” edges join each other, all “B” edges join each other, and so on). Edges marked “open rim” are not joined — they stay open as the top of the finished piece.

Print at 100% / Actual Size (not “Fit to page”) — works on both A4 and Letter paper.

Check the 5 cm scale bar on any piece page to confirm it printed true to size.

General assembly method

1. Cut all pieces from a slab rolled to an even 8-10 mm; let firm up until leather-hard.
2. Lightly bevel the edges that will join so they meet flush, not at a sharp right angle.
3. Score every edge marked with a lettered tag, on both pieces that share that letter.
4. Brush a thin layer of slip onto the scored edges just before joining.
5. Press the marked edges together, holding pieces upright; weld the seam with a rib inside and out, and add a thin coil along the inside seam for extra strength.
6. Join remaining lettered edges the same way until the form is fully closed.
7. Support the piece evenly and let it dry slowly, covered loosely, to avoid seam cracks.

Forms in this set

Cylinder Vase — wall + base

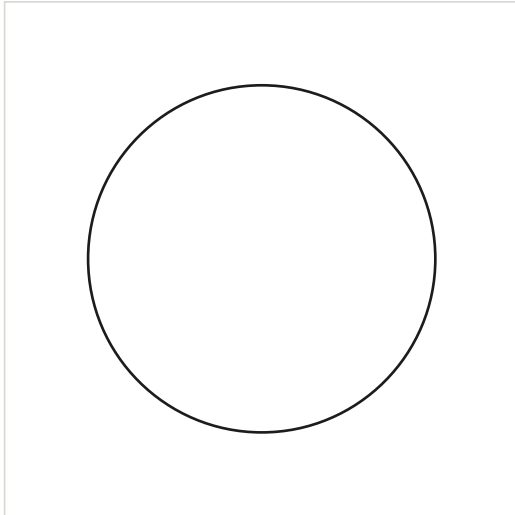
Rectangular Box — base + 4 walls

Hexagonal Planter — base + 6 walls

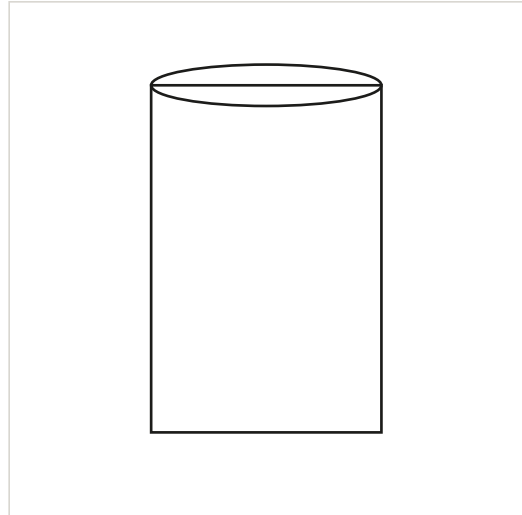
Triangular Planter — tapered base + 3 walls

Cylinder Vase

6.3 cm diameter x 9.5 cm tall — the classic slab-rolled form



Top view



Side view

Pieces needed

1 x Base — circle, 6.3 cm diameter (page follows)

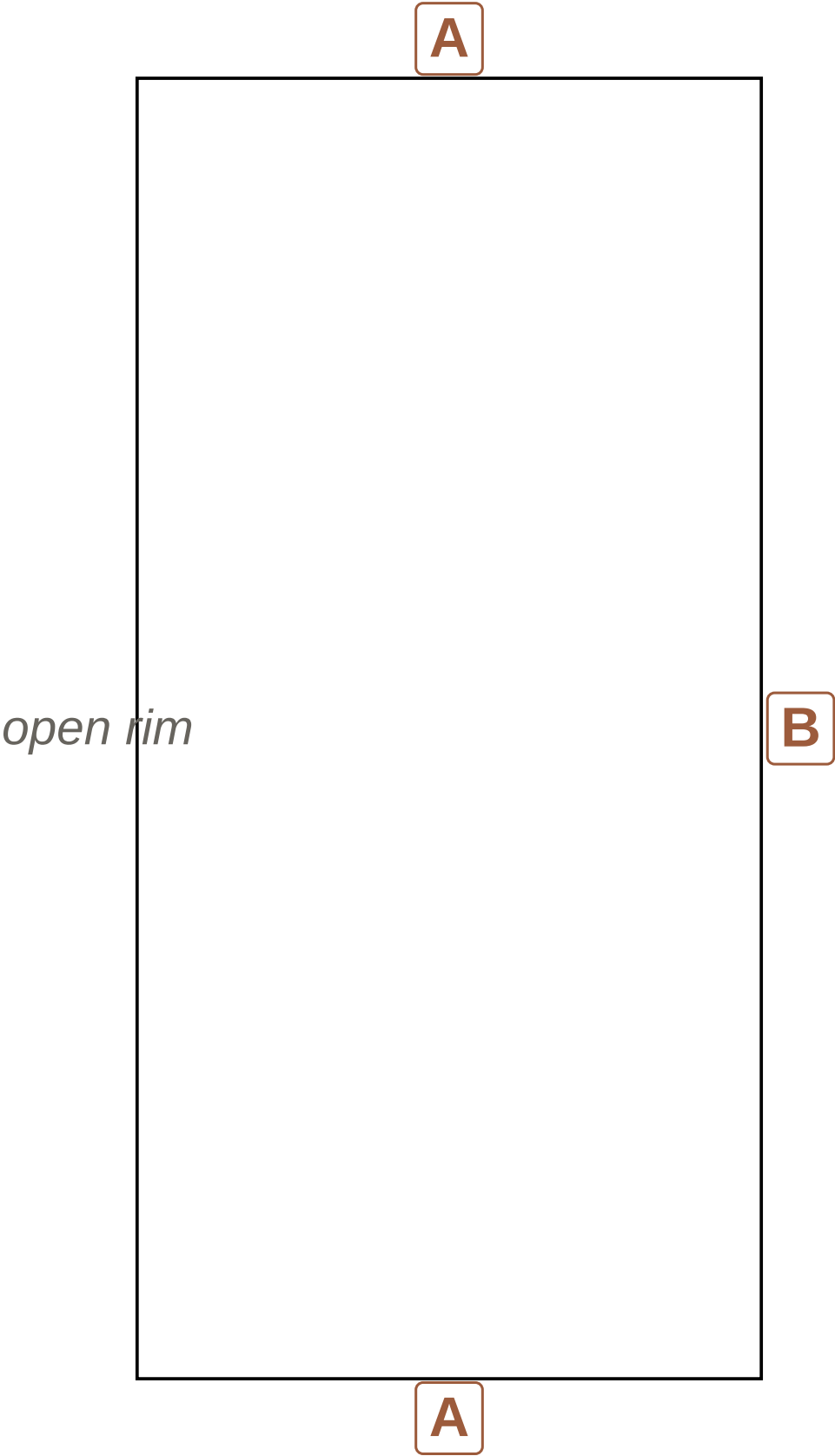
1 x Wall — rectangle, 19.8 x 9.5 cm (page follows)

Assembly

Wrap the wall piece around a cylinder former (a jar, a rolling-pin core, or a rolled-up towel) with the two short edges (both marked A) meeting — that seam is joined first. Once the tube holds its shape, join its bottom edge (marked B) to the base circle's edge (also marked B) the same way.

Wall

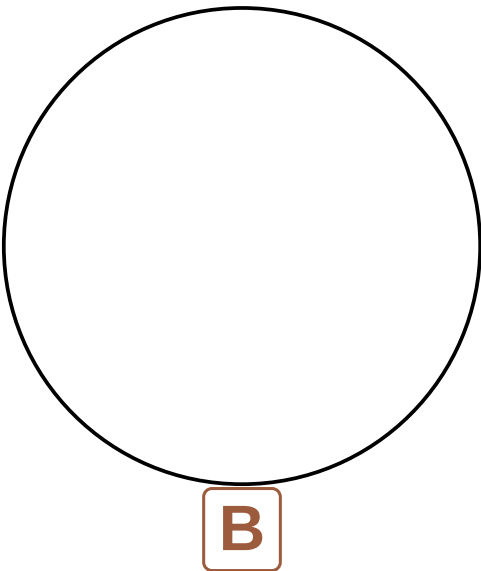
19.8 x 9.5 cm — wraps into a tube



Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").
Cut along the solid black line. Matching letters are the edges that join together.

Base

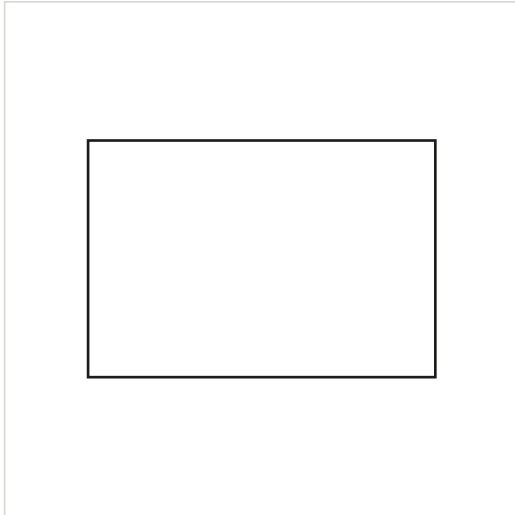
6.3 cm diameter



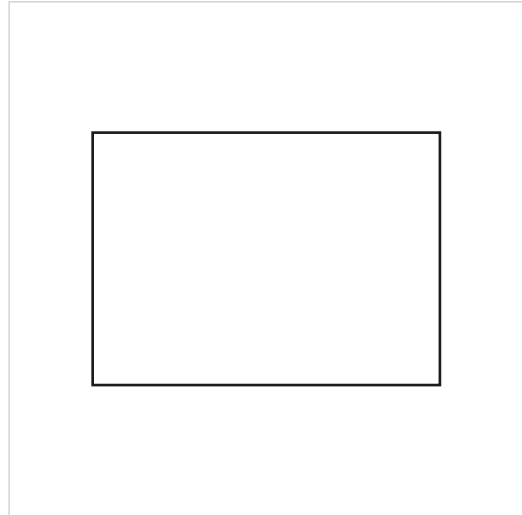
Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").
Cut along the solid black line. Matching letters are the edges that join together.

Rectangular Box

11 x 7.5 cm base, 8 cm tall — the classic slab box



Top view



Side view

Pieces needed

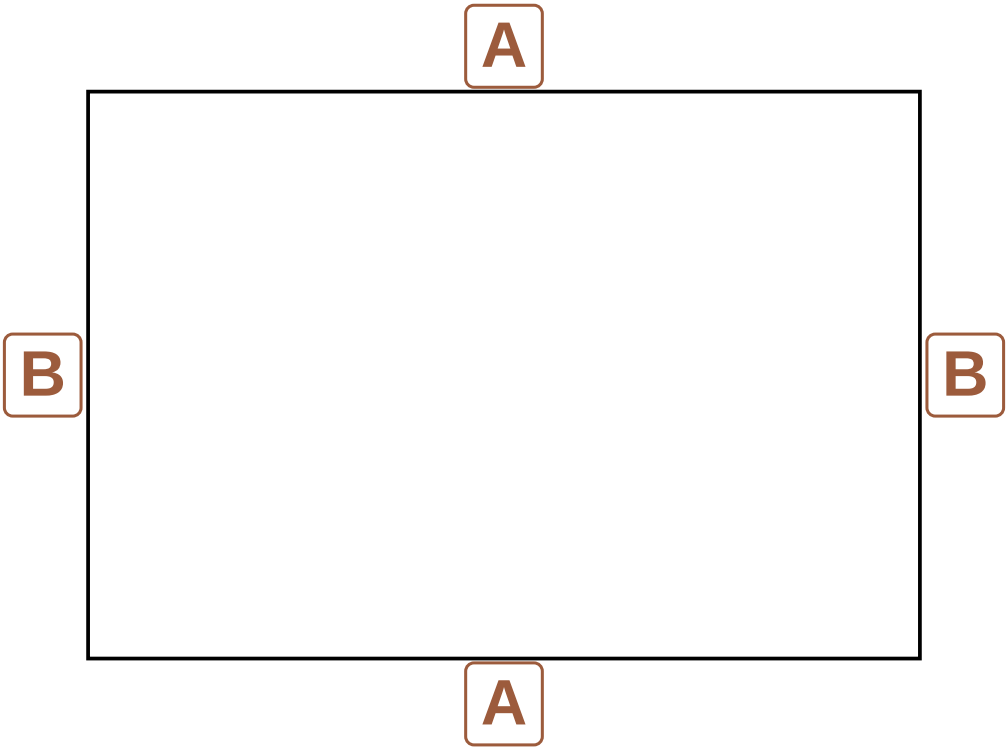
- 1 x Base — rectangle, 11 x 7.5 cm (page follows)
- 2 x Long Wall — rectangle, 11 x 8 cm (page follows, cut two)
- 2 x Short Wall — rectangle, 7.5 x 8 cm (page follows, cut two)

Assembly

Join both Long Walls to the base first (their A edges meet the base's A edges), then both Short Walls (their B edges meet the base's B edges). Finally join the walls to each other at the corners — every vertical edge is marked C.

Base

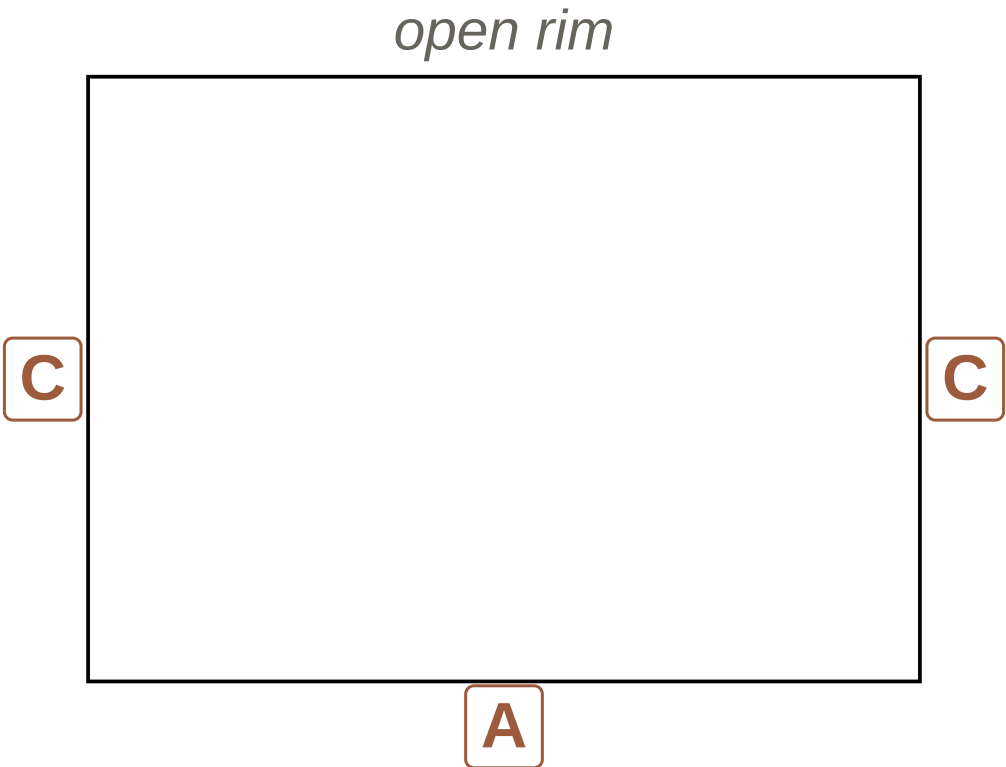
11.0 x 7.5 cm



Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").
Cut along the solid black line. Matching letters are the edges that join together.

Long Wall — cut 2

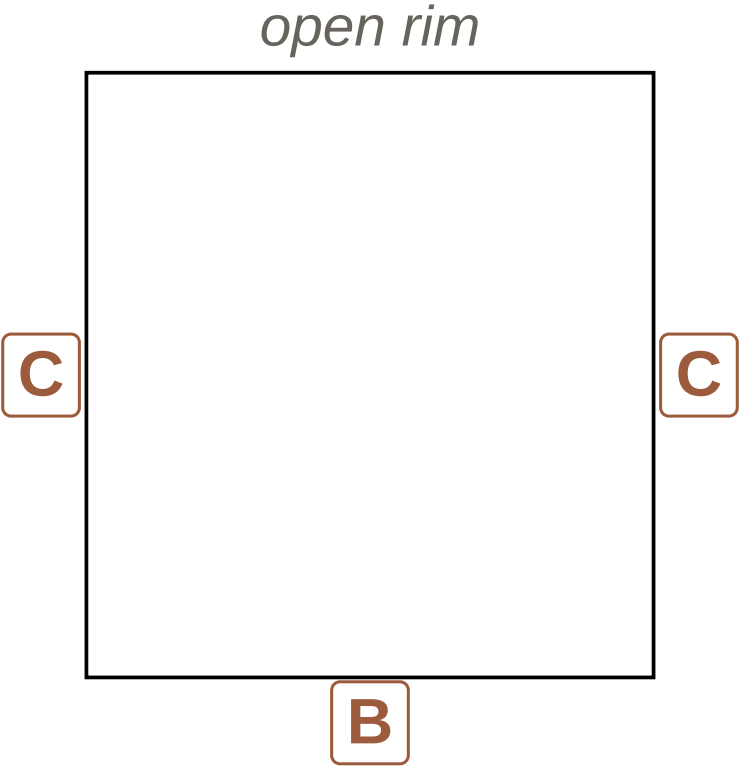
11.0 x 8.0 cm



Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").
Cut along the solid black line. Matching letters are the edges that join together.

Short Wall — cut 2

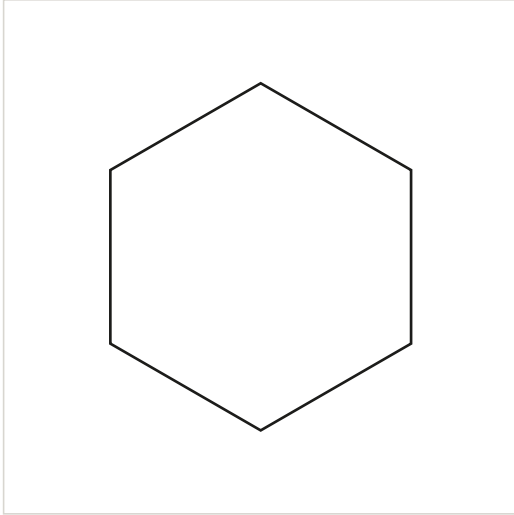
7.5 x 8.0 cm



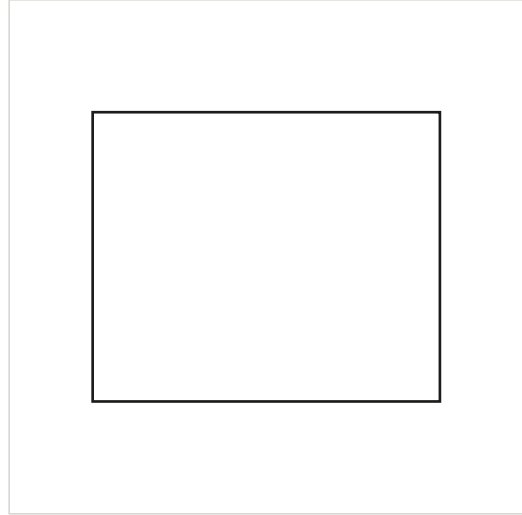
Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").
Cut along the solid black line. Matching letters are the edges that join together.

Hexagonal Planter

12 cm across, 10 cm tall — base + six matching walls



Top view



Side view

Pieces needed

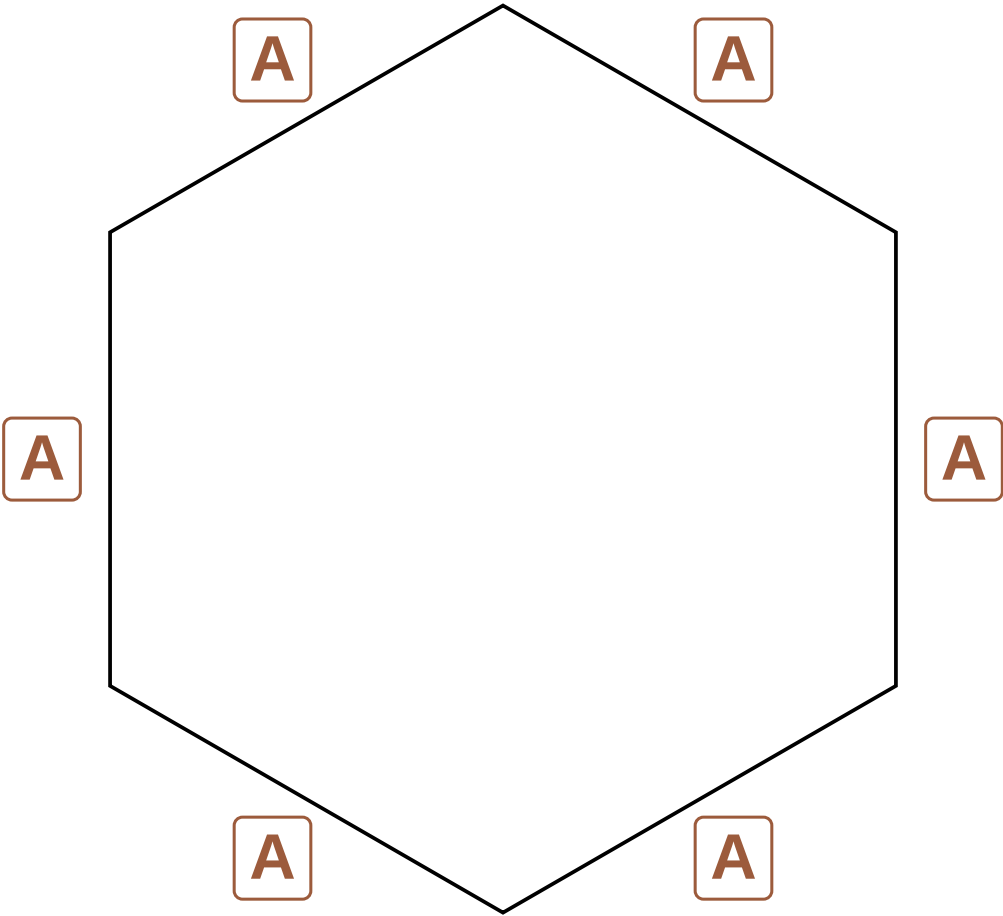
1 x Base — regular hexagon, 6 cm sides (page follows)

6 x Wall — rectangle, 6 x 10 cm, all identical (page follows, cut six)

Assembly

Join each wall's A edge to one side of the hexagon base. Then join each wall to its neighbour along their vertical B edges, working around until the ring closes.

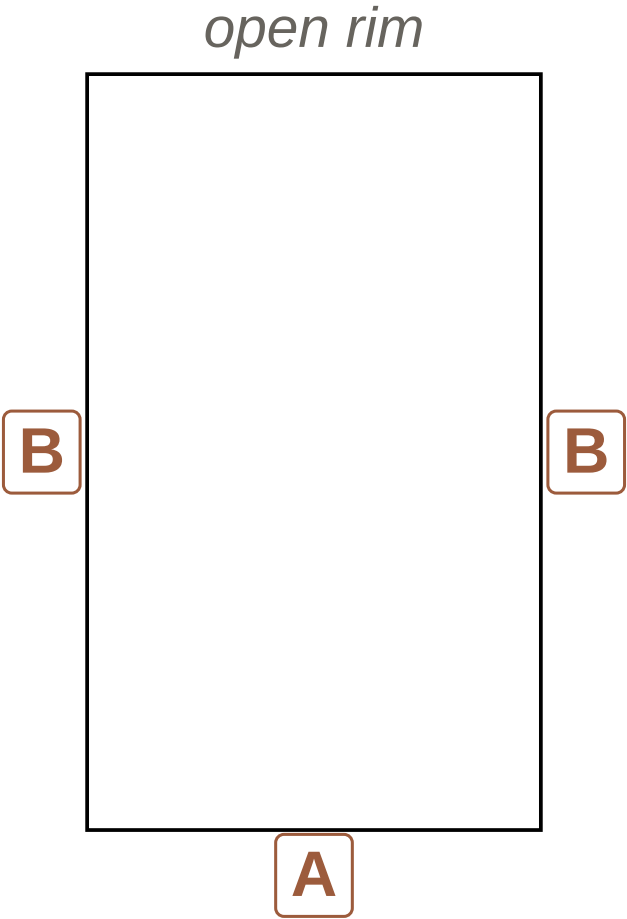
Base
6.0 cm sides



Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").
Cut along the solid black line. Matching letters are the edges that join together.

Wall — cut 6

6.0 x 10 cm

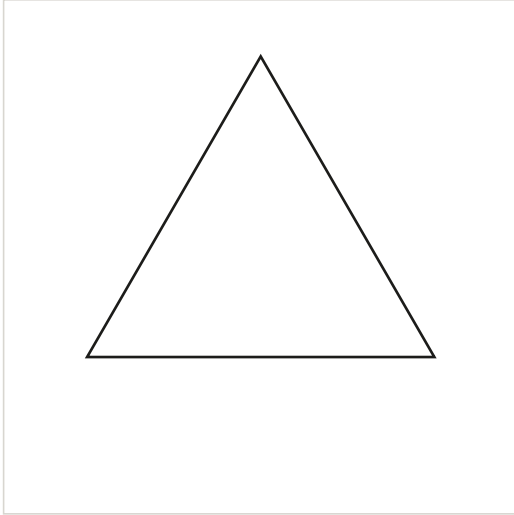


Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").

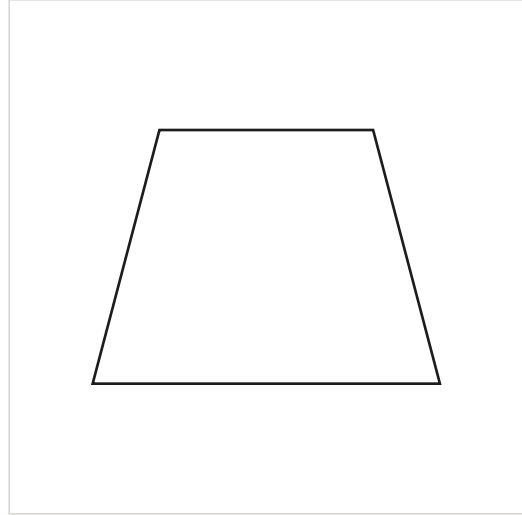
Cut along the solid black line. Matching letters are the edges that join together.

Triangular Planter

13 cm base, 9.5 cm tall, tapered sides



Top view (footprint)



Side view

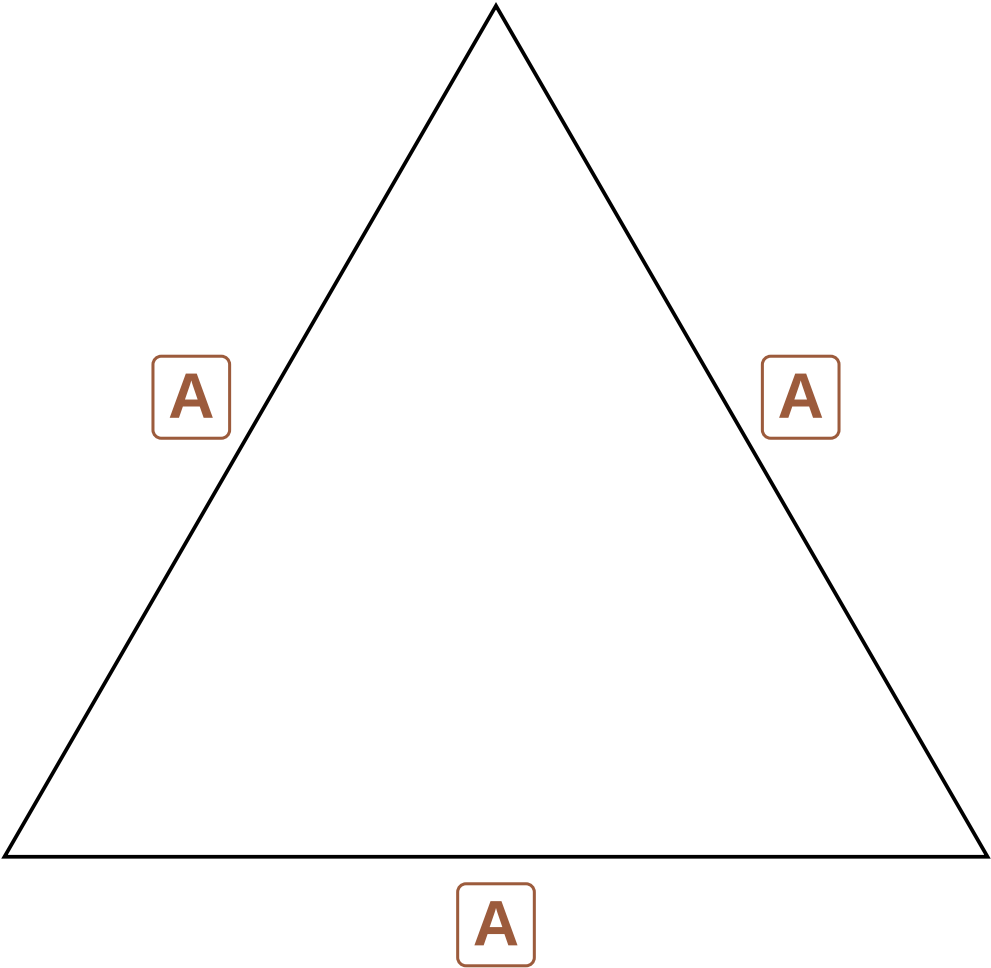
Pieces needed

- 1 x Base — equilateral triangle, 13 cm sides (page follows)
- 3 x Wall — tapered trapezoid, all identical (page follows, cut three)

Assembly

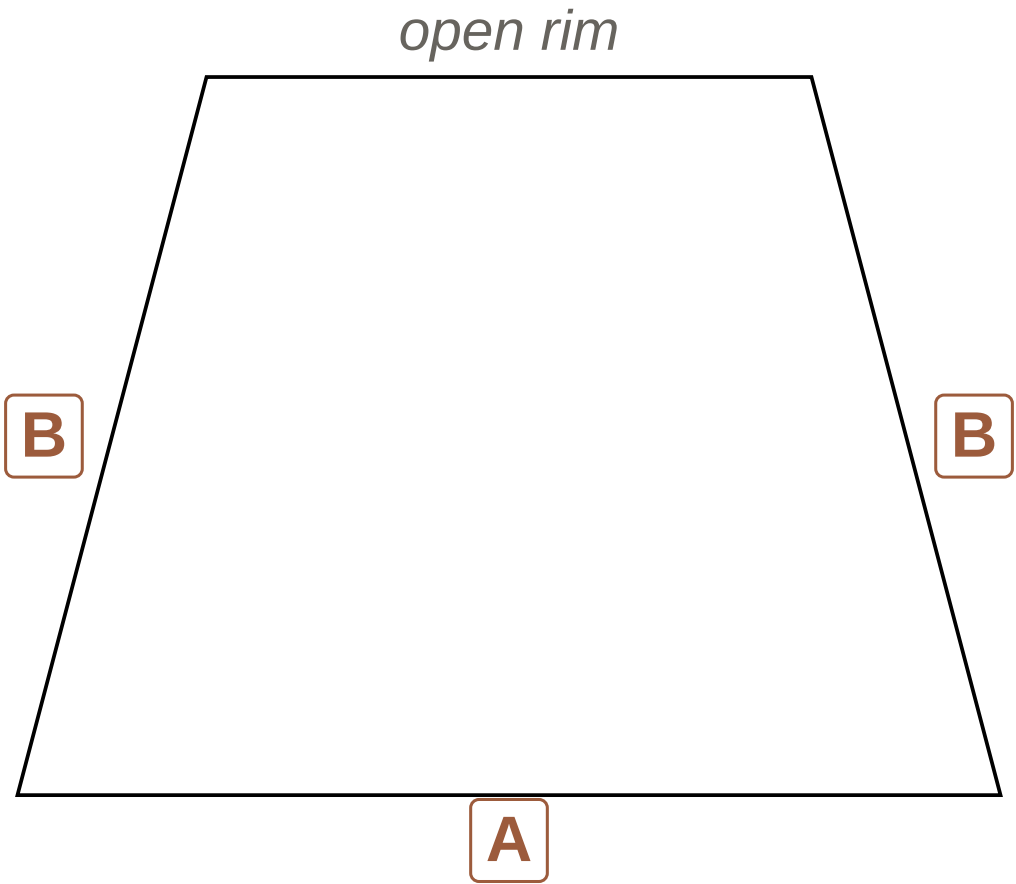
Join each wall's A edge to one side of the triangular base. Then join each wall to its neighbour along their slanted B edges, working around until it closes into a tapered, three-sided planter with an open top.

13.0 cm sides



Scale check: this bar should measure exactly 5 cm after printing.
If it doesn't, reprint at 100% / Actual Size (not "Fit to Page").
Cut along the solid black line. Matching letters are the edges that join together.

13.0 / 8.0 x 9.5 cm



Scale check: this bar should measure exactly 5 cm after printing.
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Cut along the solid black line. Matching letters are the edges that join together.