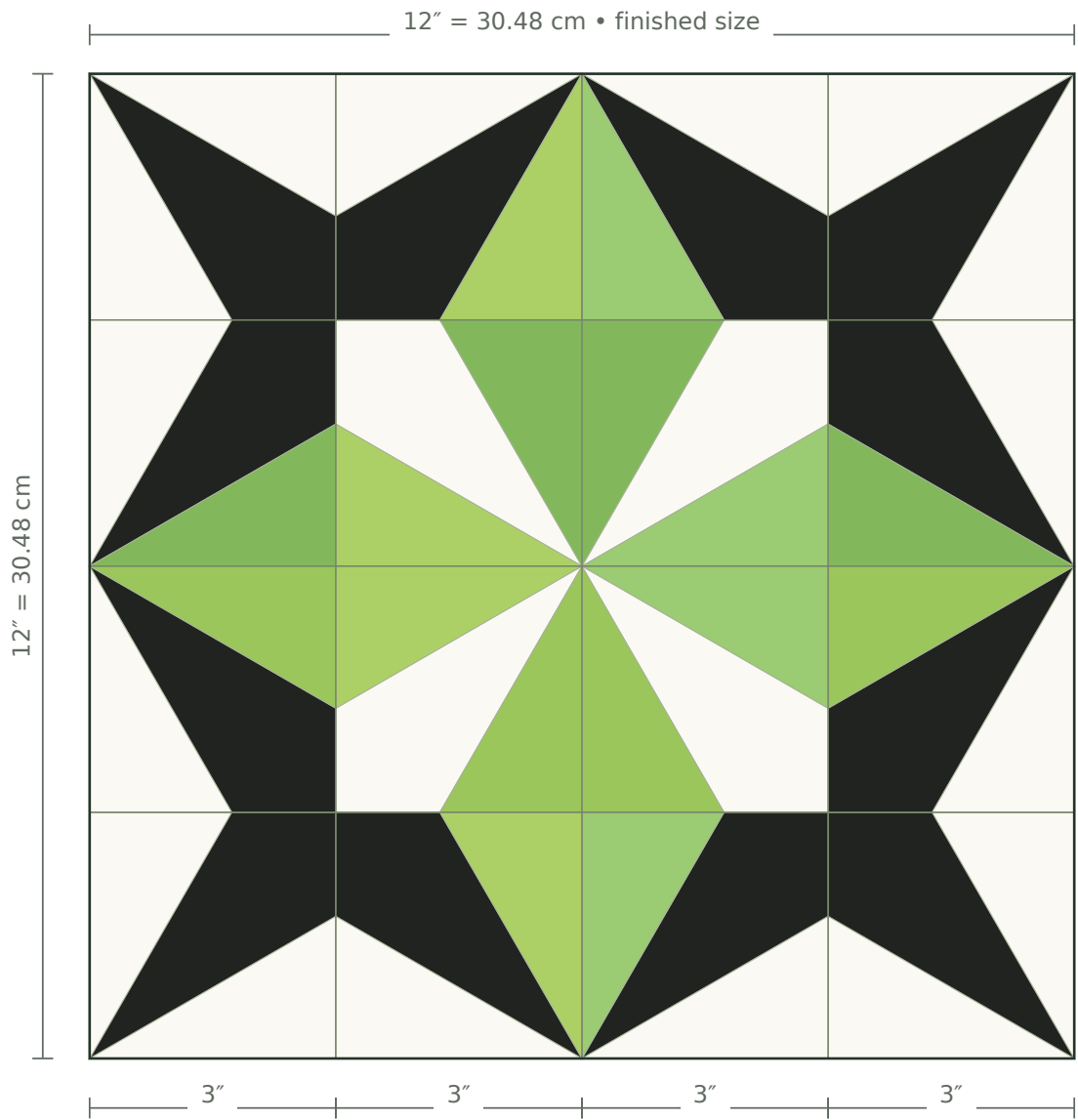


Four-Diamond Star Quilt Block

Technical diagram based on the photo • 12" version • measurements in inches and centimeters

FINISHED BLOCK 12" × 12"	UNFINISHED BLOCK 12½" × 12½"	SEAM ALLOWANCE ¼" = 0.635 cm
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- 16 green triangles
- 12 black pieces
- 20 white pieces

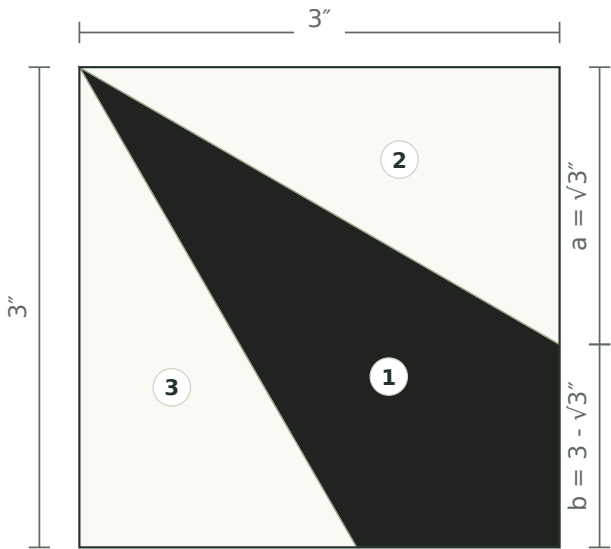
About this reconstruction

The color placement, four diamonds, and black outline were reconstructed from the photo. This version uses regular 30°/60° geometry and a 12" finished size; the original scale cannot be determined from the image. The calculations have been checked, but the pattern has not been test-sewn. Make a sample block first.

How the pieces fit together

All geometric measurements on this page are at the seam lines and exclude seam allowances.

ONE UNIT A



1 = kite-shaped center piece
2 and 3 = 30°/60°/90° triangles

Finished measurement	Inches
Triangle: longer leg	3"
Triangle: shorter leg (a)	$\sqrt{3}" \approx 1.73205"$
Triangle: hypotenuse	$2\sqrt{3}" \approx 3.46410"$
Kite: 2 long sides	$2\sqrt{3}"$ each
Kite: 2 short sides (b)	$3 - \sqrt{3}" \approx 1.26795"$

Use the printed templates for the angles

Values with $\sqrt{3}$ are exact; decimals are for reference only. Do not round them for ruler cutting. The templates on page 5 include the geometry and the outer $\frac{1}{4}"$ seam allowance.

Stage	Finished size	Size including outer allowance
1 unit (16 total)	$3" = 7.62\text{ cm}$	$3\frac{1}{2}" = 8.89\text{ cm}$
1 quadrant (4 units)	$6" = 15.24\text{ cm}$	$6\frac{1}{2}" = 16.51\text{ cm}$
Complete block	$12" = 30.48\text{ cm}$	$12\frac{1}{2}" = 31.75\text{ cm}$
1 complete green diamond	$6" \times 2\sqrt{3}"$	Diagonals, not a cutting size

Size check: $2 \times 3\frac{1}{2}" - 2 \times \frac{1}{4}" = 6\frac{1}{2}"$; then $2 \times 6\frac{1}{2}" - 2 \times \frac{1}{4}" = 12\frac{1}{2}"$. Once sewn into a quilt, the outer seam allowance leaves a 12" finished block.

Cutting list for one block

Construction method: foundation paper piecing (FPP).

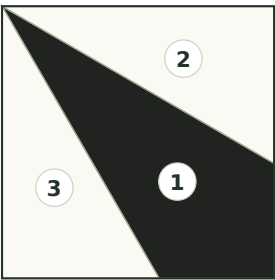
Initial cuts are intentionally oversized

These pieces are larger than the drawn shapes. Achieve the exact size by stitching on the template lines and trimming each unit to 3½" × 3½". Do not add another allowance to the outer template square.

Fabric	4½" × 4½" squares (11.43 × 11.43 cm)	4½" × 3" rectangles (11.43 × 7.62 cm)	Total pieces
Black	12	0	12
White / background	4	16	20
Green	0	16	16
TOTAL	16 squares	32 rectangles	48

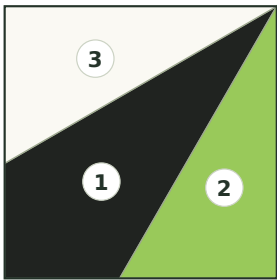
The squares cover section 1 of each template; the rectangles cover sections 2 and 3. Align the 4½" edge with the triangle's longer leg (3"), and check coverage when the fabric is flipped open. For these cuts, allow approximately 50 × 55 cm of each color, excluding selvages.

MAKE 4 UNITS OF EACH TYPE



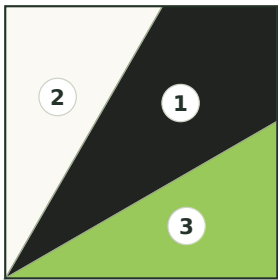
A • make 4

- 1: black
2: white
3: white



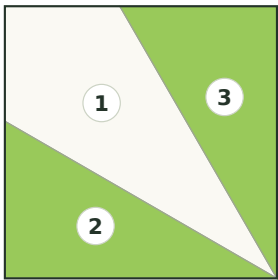
B • make 4

- 1: black
2: green
3: white



C • make 4

- 1: black
2: white
3: green



D • make 4

- 1: white
2: green
3: green

Also needed: 4 copies of page 5 on lightweight FPP paper, thread, a sewing machine, pins, a quilting ruler, a rotary cutter, a cutting mat, and an iron. Non-directional fabrics make the rotations easier.

Piece the units and the block

Letters A-D identify the fabric-side view shown on page 3.

1 Prepare and check the printed templates

Print 4 copies of page 5 on A4 paper at actual size / 100%. The test square must measure 1" (2.54 cm). Cut out all 16 foundations, leaving a little extra paper beyond the cutting line.

2 Cover section 1

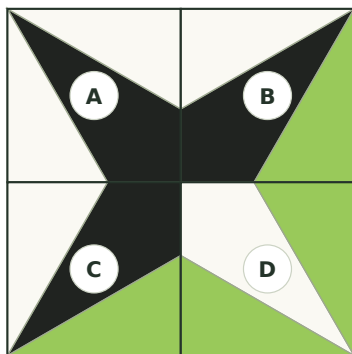
The templates are already mirrored. Place the fabric on the unprinted side of the paper, with its right side facing away from the paper. Secure piece 1 so it covers its section and extends at least ¼" beyond every edge.

3 Add pieces 2 and 3

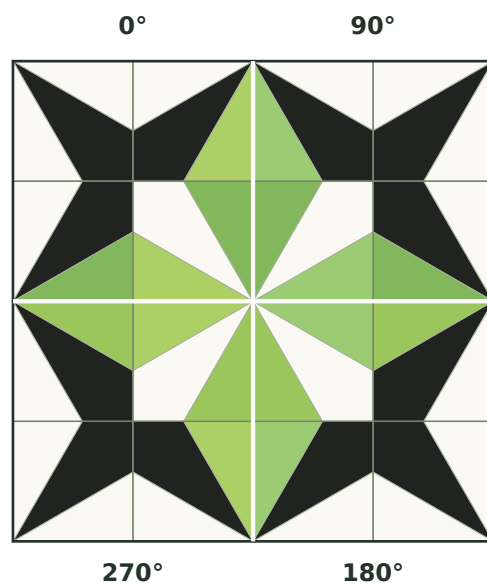
Place piece 2 over piece 1, right sides together. Test the fold to ensure coverage. From the printed side, stitch on the line between 1 and 2, extending to the outer edge. Trim the allowance to ¼", flip open, and press. Repeat along the line between 1 and 3. Use a short stitch, about 1.5-2 mm.

4 Trim and make four identical quadrants

Trim each unit to the outer 3½" square. With fabric right sides up, arrange A and B at the top, C and D below. Join A-B and C-D with ¼" seams, then join the two rows. Each quadrant should measure 6½" × 6½".



Base quadrant • make 4



Clockwise rotations

5 Join the four quadrants

Rotate the quadrants as shown, viewing the fabric side. Join the top pair and the bottom pair, then join the halves. Pin matching seam intersections and press allowances open. Leave the foundations in place until the units are joined, carefully remove the paper, and check for 12½". Preserve the green points at the outer seam line.

Technique reference: [American Patchwork & Quilting - Foundation Piecing Basics](#). The geometry and templates in this file were calculated for the supplied image.

Paper foundations • print 4 copies

A4 • actual size / 100% • do not use “fit to page.”

Already mirrored: stitch from the printed side.

Solid outer square = cutting line (3½”).

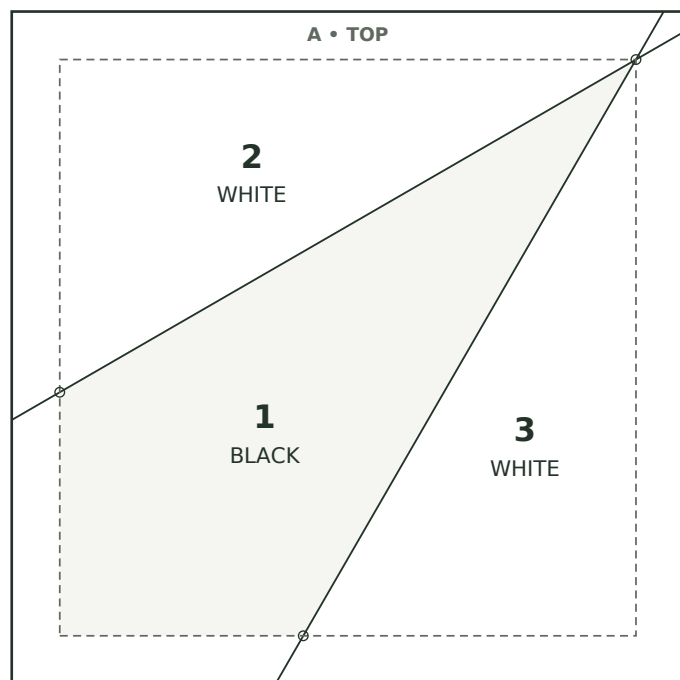
Dashed inner square = joining seam line (3”).

TEST

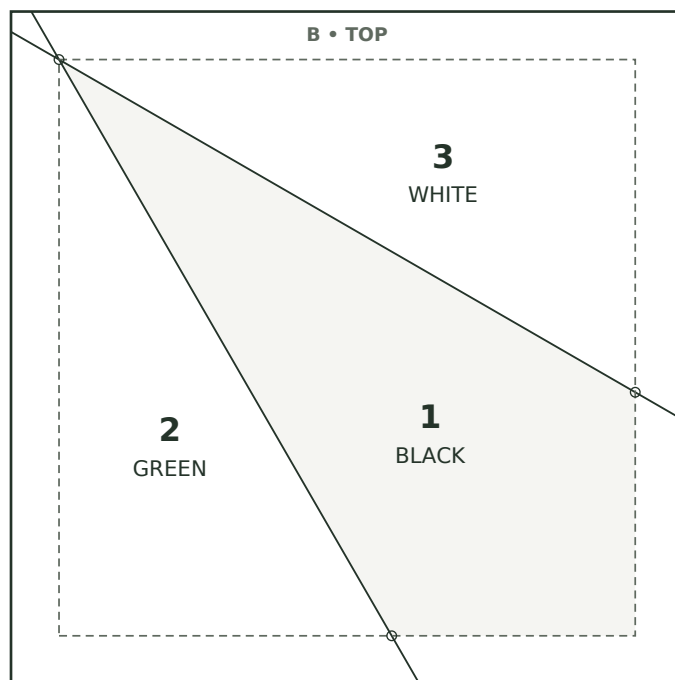
1" × 1"

2.54 cm

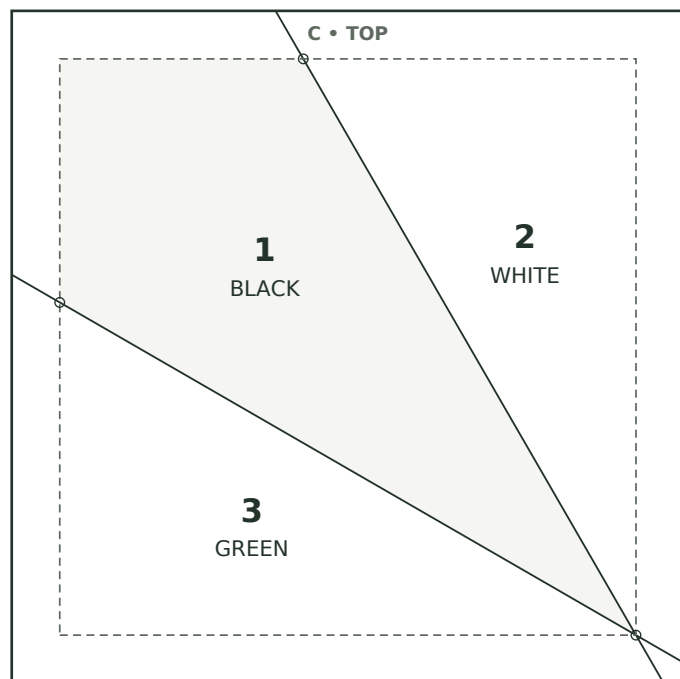
UNIT A • 4 foundations total



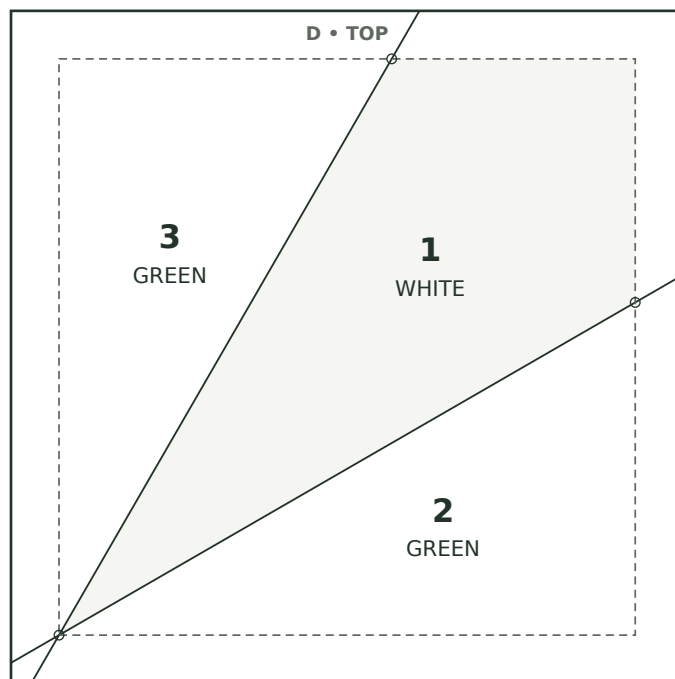
UNIT B • 4 foundations total



UNIT C • 4 foundations total



UNIT D • 4 foundations total



After piecing sections 1, 2, and 3, trim only on the outer cutting line. The 3½” square already includes ¼” on every side. Measure the test square with a ruler before cutting fabric.