

HSTOP* Ruler

Trims &/or Cuts
these “on point”
units!

Half-square triangles 

Hourglass 

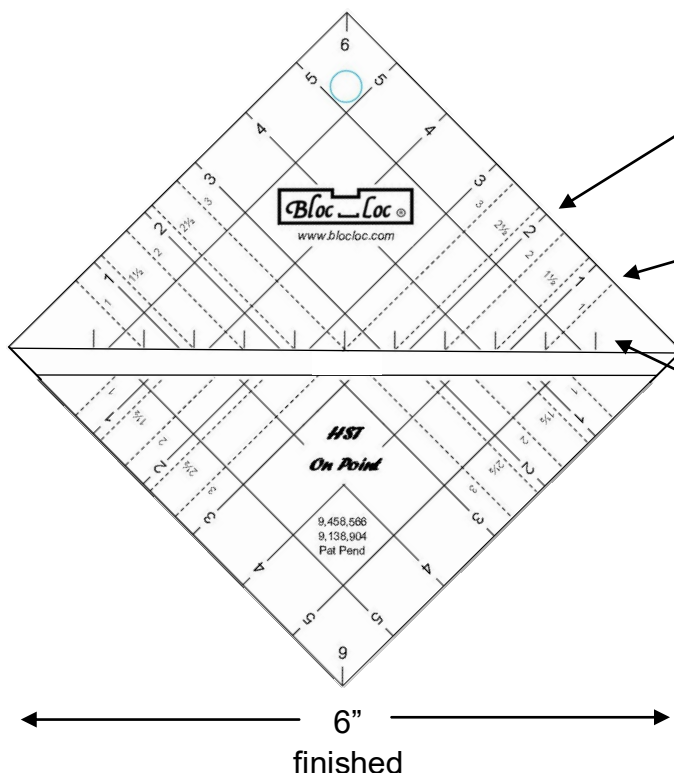
Square in a square 

Y-blocks 

Birds in the air  

Four-patch units 

Simple squares 

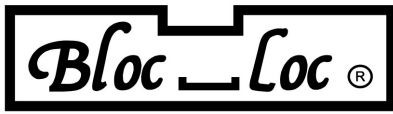


Finished size markings include seam allowance! No unfriendly cutting sizes!

Dashed lines are for trimming four-patch on point, birds in the air on point & y-block on point units.

Tick marks are for trimming quarter-square triangles on point, y blocks on point, birds in the air on point & y-block on point units.


*Please note that all the pages in this document are specifically for the Bloc Loc HSTOP ruler and the cutting and trimming sizes provided are NOT interchangeable with the Bloc Loc HST ruler.

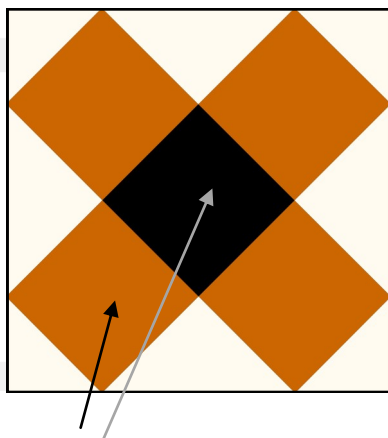


How to Cut Simple Squares On Point with HSTOP Ruler

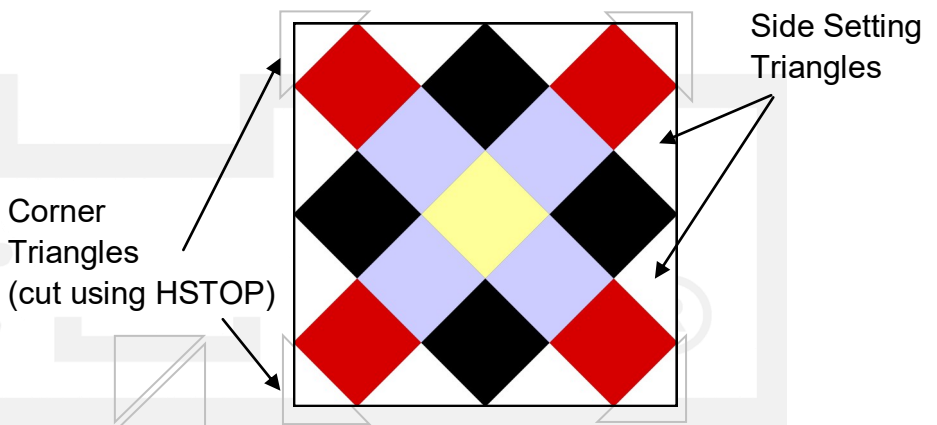
The lines on the HSTOP ruler are the finished size of either a solid square, HST, QST, Y-Block, or Birds in the Air & Four Patch on point units. They are listed as finished because the actual cut/trimmed sizes are not rotary cutter friendly. In other words, the measurements will often end on a 16th of an inch, depending on the size. Also, all of the sizes on the ruler include the seam allowance.

Follow the chart and cut the strips or squares for the required size of the block you are working on. The measurements in the chart are oversized, making it easier to cut *and fine-tune the size by using the lines on the ruler to finish cutting the squares.*

Finished Size	Strip	# of Squares Per Strip	Single Square Size is OVERSIZED <i>Don't forget to re-cut squares using HSTOP ruler</i>	Side Setting Triangles (cut with normal, non-HSTOP ruler) for straight of grain around outside of block 
1" x 1"	1 1/4" x wof	32	1 1/4" x 1 1/4"	2 1/4" x 2 1/4"
2" x 2"	2" x wof	20	2" x 2"	3 1/4" x 3 1/4"
3" x 3"	2 3/4" x wof	14	2 3/4" x 2 3/4"	4 1/4" x 4 1/4"
4" x 4"	3 1/2" x wof	11	3 1/2" x 3 1/2"	5 1/4" x 5 1/4"
5" x 5"	4 1/4" x wof	9	4 1/4" x 4 1/4"	6 1/4" x 6 1/4"
6" x 6"	4 3/4" x wof	8	4 3/4" x 4 3/4"	7 1/4" x 7 1/4"



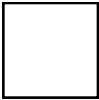
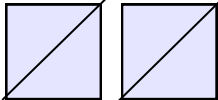
Use solid lines to cut simple squares. Measurement includes the seam allowance.

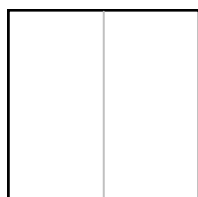


The side setting triangles are cut using a ruler you would normally use for strip cutting and the resulting triangles will give you a straight of grain around the outside of the block.

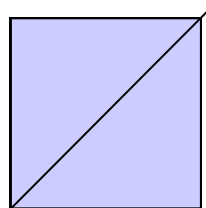
The corner triangles are cut with the same measurement and HSTOP ruler as the rest of the squares are in the block. It will be oversized, so the block should be trimmed after completion.



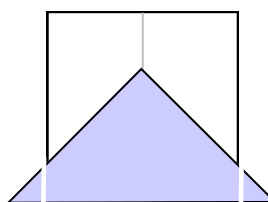
Finished Size Square in a Square	Center Square Cut 1 Square 	Corner Triangles Cut 2 Squares 
1" x 1"	Use 1" finished line	Use 1" finished line
2" x 2"	Use 2" finished line	Use 2" finished line
3" x 3"	Use 3" finished line	Use 3" finished line
4" x 4"	Use 4" finished line	Use 4" finished line
5" x 5"	Use 5" finished line	Use 5" finished line
6" x 6"	Use 6" finished line	Use 6" finished line



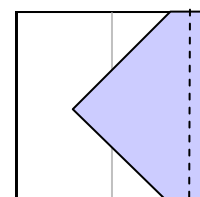
1. Fold a crease halfway on center square.



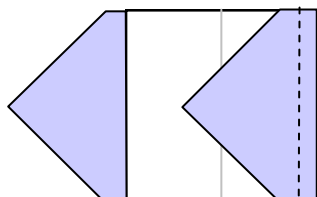
2. Align both squares for corner triangles on top of each other, edges even. Cut diagonally in half.



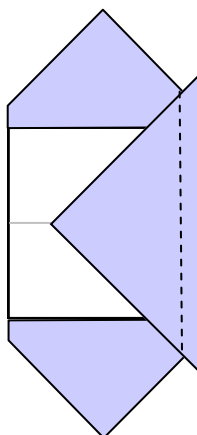
3. Place two triangles on top of the square with the tip of triangles on the crease and cut off the sides of the triangles so they will fit the square.



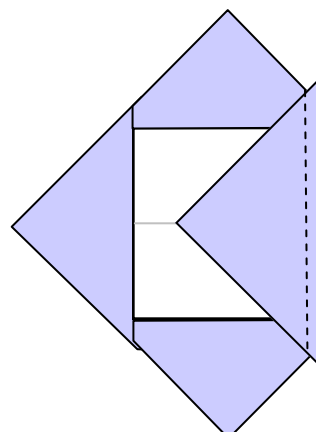
4. Rotate one of the triangles to the side of the square (do not use crease at this time) and stitch 1/4" seam. Press seam toward triangle shape.



5. Add the remaining triangle to the opposite side of the square. Stitch and press the seam toward the triangle shape.



6. Align the tip of the triangle to the crease and cut edge, right sides together. Stitch 1/4" seam. Press the seam away from center.

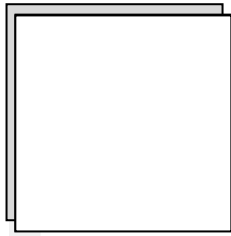


7. Add final triangle to unit. Press seam toward the triangle and then either lock onto seams with the Bloc Loc Flying Geese ruler or trim 1/4" away from points.

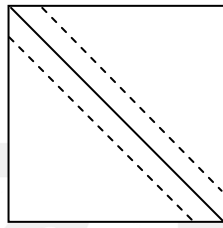
Watch the video on
Square in a Square
(under the Flying
Geese video title).
www.blocloc.com

Half-Square Triangle On Point (HSTOP)

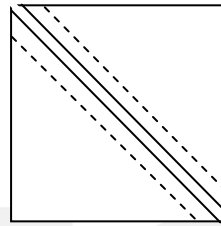
Two at a Time Method



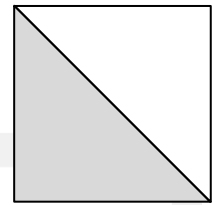
1. Arrange two squares with right sides together and edges even.



2. Draw a line diagonally corner to corner on the wrong side and stitch $\frac{1}{4}$ " on each side of the line.

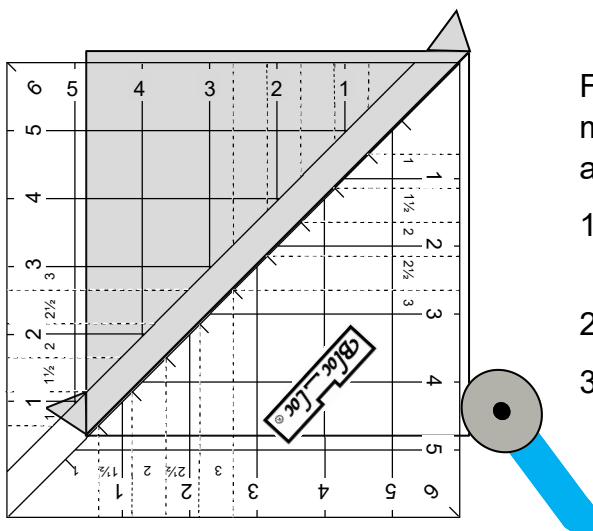


3. Cut the units apart on the drawn line and press seams to one side.



4. Trim each using the HSTOP ruler to the finished line. This measurement includes the seam allowance.

HSTOP Finished Size	Size of Squares to Cut (1 each)	Trim to Size
1" x 1"	1 $\frac{3}{4}$ " x 1 $\frac{3}{4}$ "	1" x 1" solid line
2" x 2"	2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	2" x 2" solid line
3" x 3"	3 $\frac{1}{4}$ " x 3 $\frac{1}{4}$ "	3" x 3" solid line
4" x 4"	4" x 4"	4" x 4" solid line
5" x 5"	4 $\frac{3}{4}$ " x 4 $\frac{3}{4}$ "	5" x 5" solid line
6" x 6"	5 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ "	6" x 6" solid line

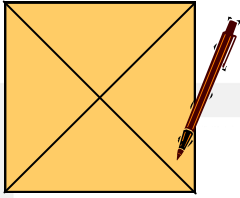


Functions like the HST ruler, except that you will be trimming to the "finished" lines ("finished" size includes seam allowance).

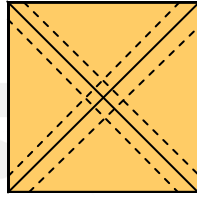
1. Lock the groove onto the seam allowance. "Logo" on the low side of unit.
2. Trim the first two sides of HSTOP.
3. Turn ruler and unit around and slide ruler until the finished measurement is on the opposite side (from the first cut). Trim.

Half-Square Triangle On Point (HSTOP)

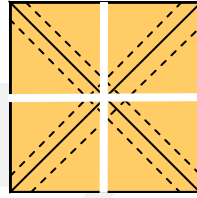
Eight at a Time Method



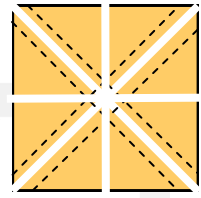
1. Place black and color squares with right sides together & edges even. Draw a line diagonally corner to corner using a mechanical pencil or Frixion pen.



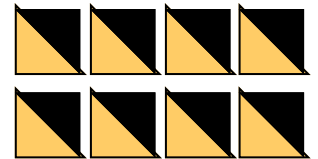
2. Stitch 1/4" on each side of the drawn lines.



3. Cut the squares in both directions.



4. Cut the squares diagonally corner to corner, horizontally and vertically to separate the units. Trim to the finished size needed for the project.

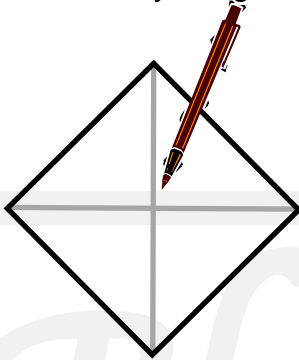


HSTOP Finished Size	Size of Squares to Cut (1 each)	Trim to Size
1" x 1"	3 1/2" x 3 1/2"	1" x 1" solid line
2" x 2"	5" x 5"	2" x 2" solid line
3" x 3"	6 1/2" x 6 1/2"	3" x 3" solid line
4" x 4"	8" x 8"	4" x 4" solid line
5" x 5"	9 1/4" x 9 1/4"	5" x 5" solid line
6" x 6"	10 3/4" x 10 3/4"	6" x 6" solid line

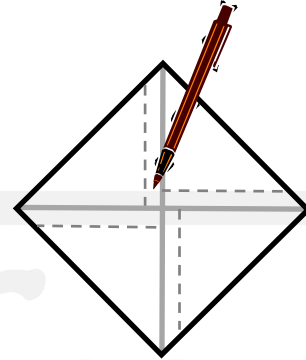


Four at a Time **IDENTICAL** Method

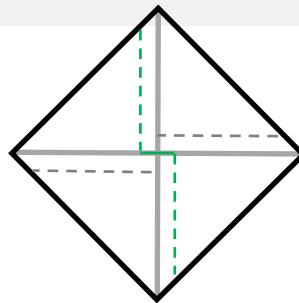
Half HSTOP units are used to create a variety of units, such as Y-Blocks, Whirlwind, Turnstile and Four X (QST) as well as many others. Follow the cutting chart to create these on point units. The four at a time method ensures identical color placement in all four units and there will be one bias edge. Please starch yardage to stabilize the fabric before the units are made.



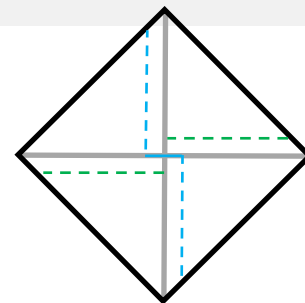
1. Arrange two fabrics right sides together and draw a line diagonally in both directions.



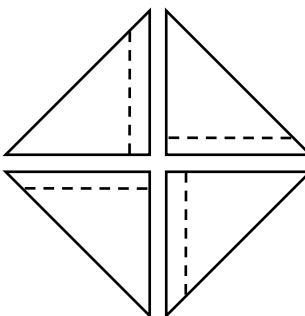
2. Draw 1/4" stitching line to the left of each diagonal line.



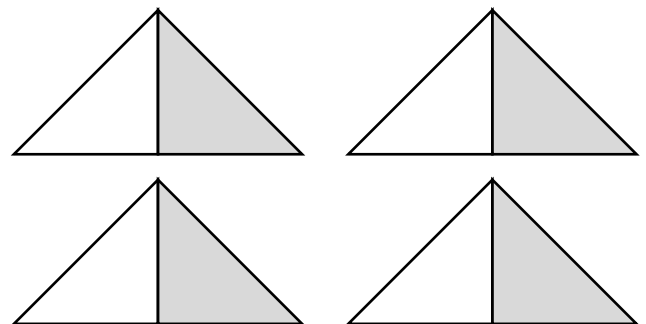
3. On the first round of stitching, stitch directly on the line (shown in green). With needle down, pivot, stitch through the middle line, pivot again and stitch to the other side of the unit.



4. Rotate the unit and repeat the same stitching path, this time shown in blue.



5. Cut the unit apart along the center in both directions.



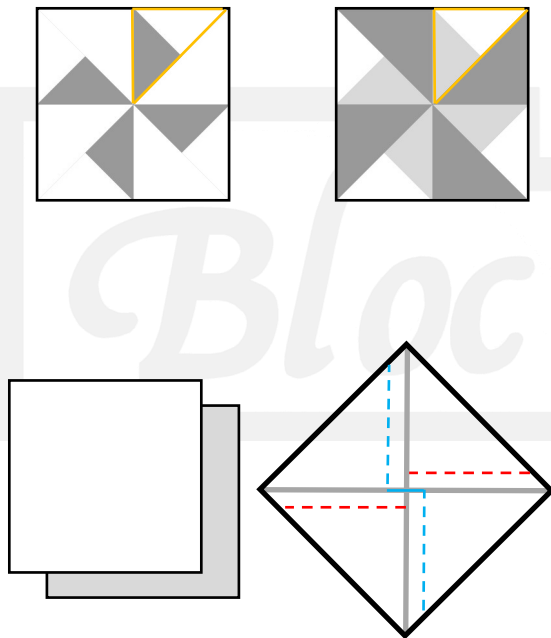
6. GENTLY Finger press the seams to one side, usually the darker fabric.

Half-HSTOP Specific Color Placement

Four at a Time Method

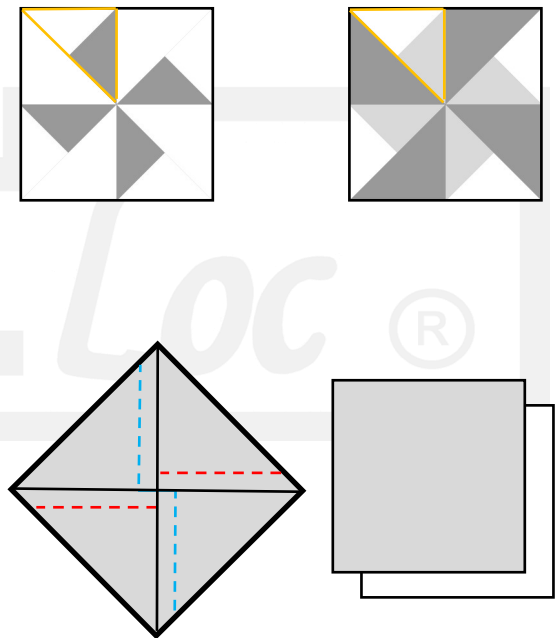
There may be projects that require specific color placement and you prefer to make four at a time *Half-HSTOP* units. You need to know in advance how to always make them so the correct color appears either on the left or right of the *Half-HSTOP* unit. This will be helpful when designing blocks that are rotating in a specific direction.

Gray on the left of HHST

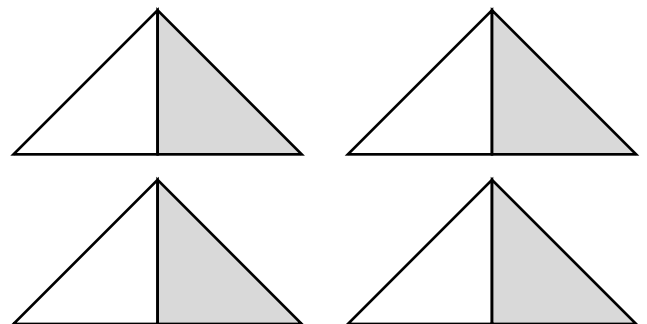
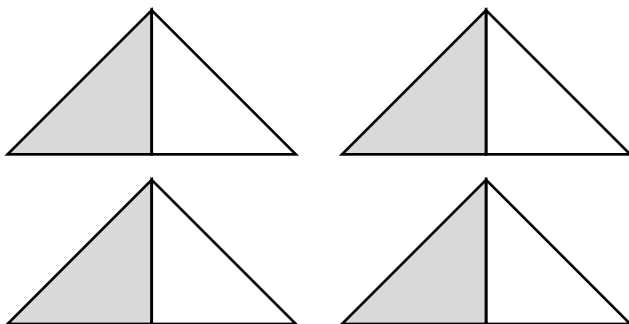




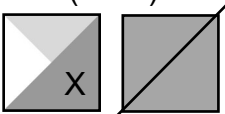
White Square on Top will result in white always appearing on the right of each *half-hstop* unit.

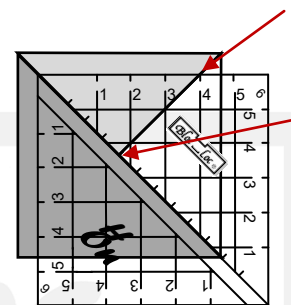
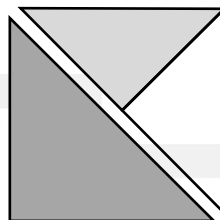
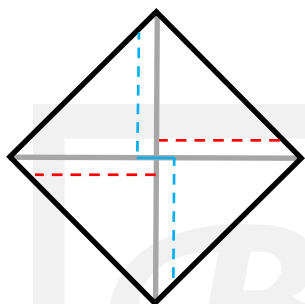
Gray on the right of HHST



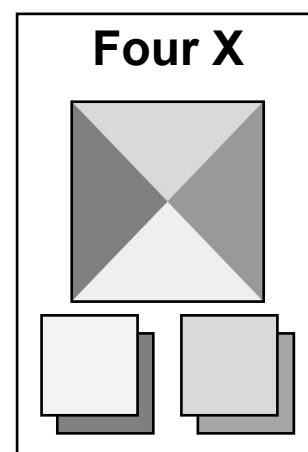
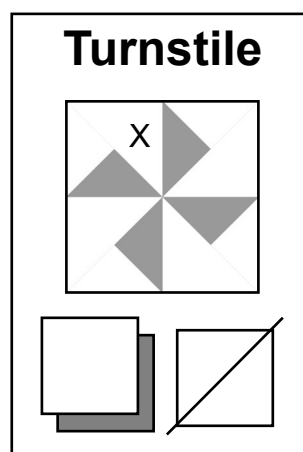
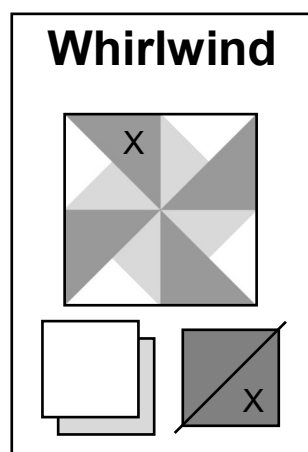
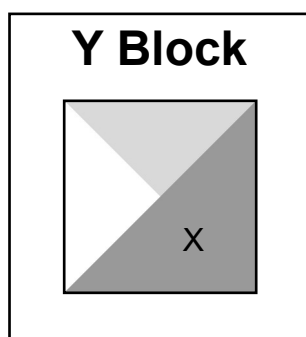
Gray Square on Top will result in gray always appearing on the right of each *half-hstop* unit.



Finished Size Half -HSTOP	Cut Size of Squares (1 each)	Cut Size of "x" Square (cut 2)	HSTOP Units Completed & Trim to Size Makes 4
			
1" x 1"	2 1/4" x 2 1/4"	1 3/4" x 1 3/4"	1" x 1" solid line
2" x 2"	3 1/2" x 3 1/2"	3" x 3"	2" x 2" solid line
3" x 3"	3 3/4" x 3 3/4"	3 1/4" x 3 1/4"	3" x 3" solid line
4" x 4"	4 1/2" x 4 1/2"	4" x 4"	4" x 4" solid line
5" x 5"	5 1/4" x 5 1/4"	4 3/4" x 4 3/4"	5" x 5" solid line
6" x 6"	6" x 6"	5 1/2" x 5 1/2"	6" x 6" PERIMETER

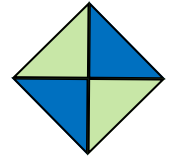


1. After stitching unit, cut apart on the drawn line. Press all four half-HSTOP toward gray (darker color).
2. Pair each half-HSTOP with a triangle cut from chart above (x) with right sides together and centered.
3. Stitch and press seams toward the solid triangle. Lock onto seam with HSTOP groove, the logo is on the low side and then slide the ruler until the size needed is on the seam (red arrow). Also align the short tick-mark. Trim, rotate the unit & ruler and then trim opposite side.

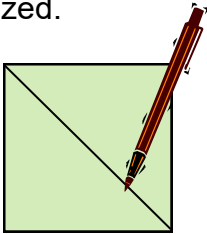




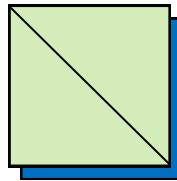
Quarter-Square Triangles On Point (QSTOP) Two at a Time Method



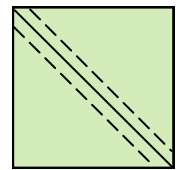
The cutting amounts in the charts for QSTOPs are oversized to allow for trimming. Make a test sample to see if you have enough all the way around to trim your QST and if there isn't enough, then add 1/4" extra to the measurement and test it again. For this unit, it's imperative to starch the yardage prior to cutting squares so that when the QSTOP units are made, stretching is minimized.



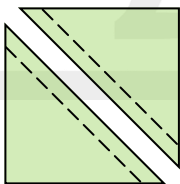
1. Cut the squares for your selected block in the size you need. Draw a line diagonally from corner to corner on the wrong side of one square.



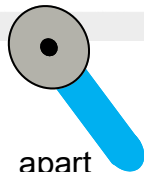
2. Place squares "right sides together" and edges aligned.



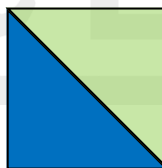
3. Stitch 1/4" on each side of the drawn line.



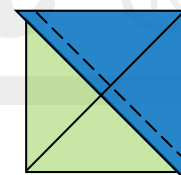
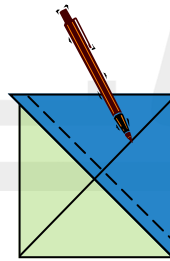
4. Cut the units apart from each other on the drawn line.



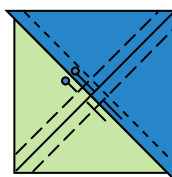
Finger press the seams to one side. **DO NOT USE AN IRON** to coax the seam allowance to one side because this is the primary cause of seam distortion.



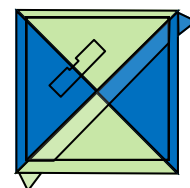
5. Draw a line diagonally from corner to corner on the wrong side of one HST.



6. Place one HST on top of the other with opposite colors touching, right sides together and seams are nestled.



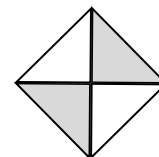
7. Place a pin on each seam to hold it in place and then stitch 1/4" from each side of the drawn line. Press the unit before cutting apart. Cut the units apart.



8. Press the last seam sewn to one side and then place your Bloc-Loc Ruler on the QST (right side up) and trim to the size specified. See next page for instructions on how to trim using HSTOP ruler.



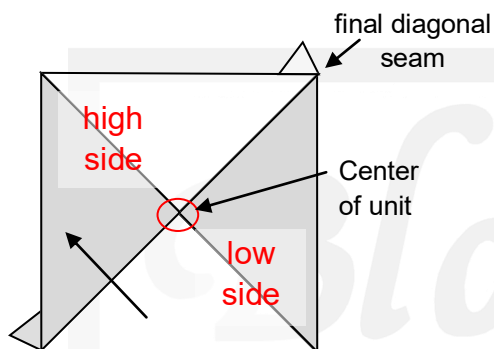
Quarter Square Triangles On Point (QSTOP)



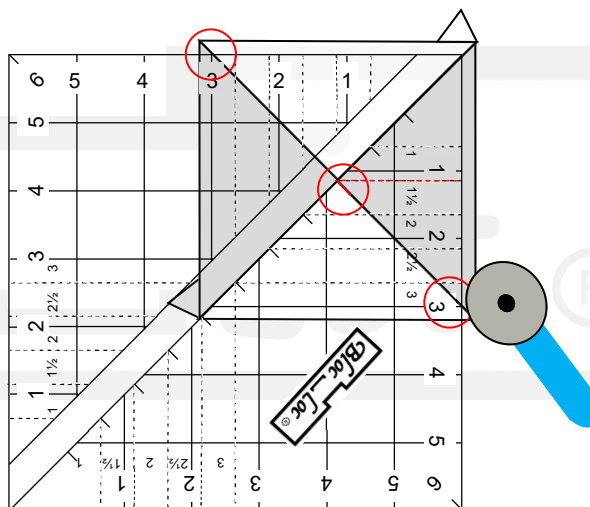
Two at a Time Method

Finished Size QSTOP	Cut Squares 1 1	Center of QSTOP Tick-Mark & Dashed Line Alignment	Completed QSTOP Trim to Size
2" x 2"	3" x 3"	1"	2" x 2" finished
3" x 3"	3 3/4" x 3 3/4"	1 1/2"	3" x 3" finished
4" x 4"	4 1/2" x 4 1/2"	2"	4" x 4" finished
5" x 5"	5 1/4" x 5 1/4"	2 1/2"	5" x 5" finished
6" x 6"	6" x 6"	3"	6" x 6" finished

How to Trim QSTOP units using HSTOP Ruler



1. After making the QSTOP units, press the final diagonal seam to one side.

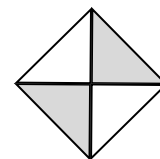


2. Place the logo of Bloc Loc HSTOP ruler on the low side, of the unit and the grooved is locked onto the seam.

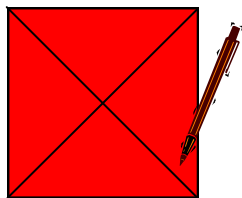
If the QSTOP is supposed to be 3" x 3" finished, then the center of the unit must be 1 1/2" x 1 1/2". Locate the dashed line marked with the number 1 1/2" and slide the ruler until that dashed line (shown in red) is on the seam. Also make sure the tick-mark (also shown in red) is on the seam. Check that the finished size needed appears on the seam (red circles) Trim the first two sides.

Turn the ruler around with the QSTOP unit underneath and repeat the same process. to complete the trim.

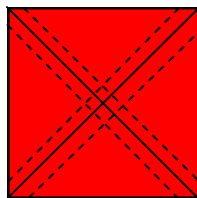
Quarter Square Triangles On Point (QSTOP)



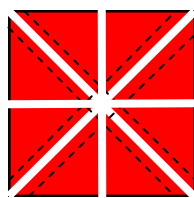
Eight at a Time Method



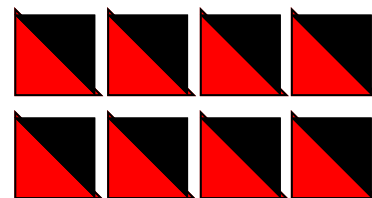
1. Arrange two squares with right sides together & edges even. Draw a line diagonally corner to corner using a mechanical



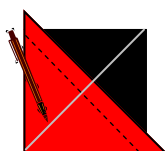
2. Stitch 1/4" on each side of the drawn lines.



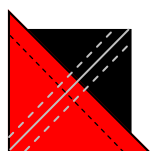
3. Cut the squares apart as shown.



4. Press seams toward the darker fabric.



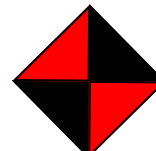
5. Draw a line diagonally corner to corner on the wrong side of half of the units.





6. Arrange two units right sides together and seams nested. Stitch 1/4" on each side of the line.

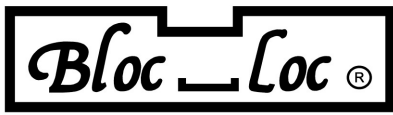


7. Cut the units apart on the drawn line. Press seams to one side.



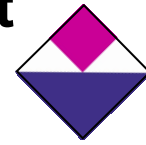
8. Trim to size. Follow instructions on previous page. Makes 8 QSTOP units.

Finished Size QSTOP	Cut Squares  	Center of QSTOP Tick-Mark & Dashed Line Alignment	Completed QSTOP Trim to Size (solid lines)
2" x 2"	4 1/2" x 4 1/2"	1"	2" x 2" finished
3" x 3"	6" x 6"	1 1/2"	3" x 3" finished
4" x 4"	7 1/2" x 7 1/2"	2"	4" x 4" finished
5" x 5"	9" x 9"	2 1/2"	5" x 5" finished
6" x 6"	12" x 12"	3"	6" x 6" finished



Birds in the Air On Point (BIAOP) Units

Two at a Time Method




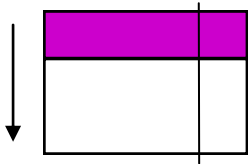
On Point



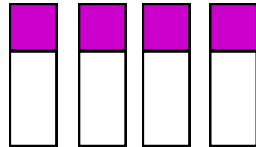
OR

As in Square in a Square

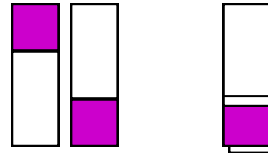
Finished Size	Narrow Strip	Wide Strip	Sub-Cut Strip Set into 4 Widths	Rectangle	Center of QSTOP Tick-Mark & Dashed Line Alignment	Corner Triangles (as in Square in a Square) 2 
2" x 2"	1 1/2" x 6 1/4"	2 1/2" x 6 1/4"	1 1/2" widths	2 1/2" x 3 1/2"	1"	2 1/8" x 2 1/8"
3" x 3"	1 3/4" x 7 1/4"	2 3/4" x 7 1/4"	1 3/4" widths	3" x 4"	1 1/2"	2 7/8" x 2 7/8"
4" x 4"	2" x 8 1/4"	3" x 8 1/4"	2" widths	3 1/2" x 4 1/2"	2"	3 1/2" x 3 1/2"
5" x 5"	2 3/8" x 9 3/4"	3 3/8" x 9 3/4"	2 3/8"	4 1/4" x 5 1/4"	2 1/2"	4 1/4" x 4 1/4"
6" x 6"	2 7/8" x 11 3/4"	3 7/8" x 11 3/4"	2 7/8"	5 1/4" x 6 1/4"	3"	5" x 5"



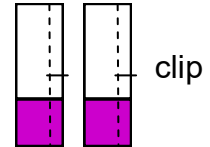
1. Sew narrow and wide strip lengthwise and press seam toward wider strip.



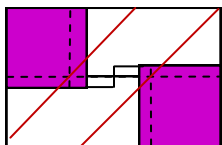
2. Sub-cut the strip set into four widths.



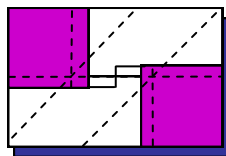
3. Group into two pairs with right sides together, edges even and colors opposite.



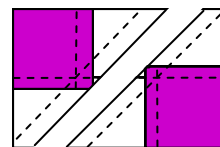
4. Stitch 1/4" seam lengthwise on each pair. Fold in half to mark the halfway point and clip one or two threads past the seamline.



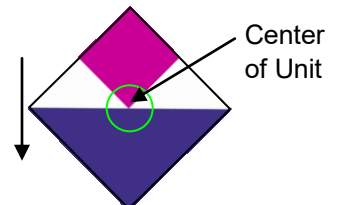
5. Draw a 45° line (shown in red) that crosses through the existing stitching lines.



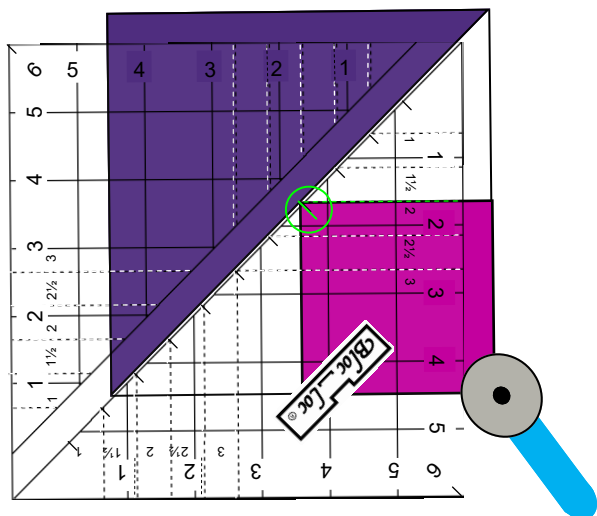
6. Arrange right sides together with the rectangle and stitch on the 45° lines.



7. Cut the units apart, 1/4" beyond the stitching lines as shown.



8. Press seam allowance to the solid triangle.



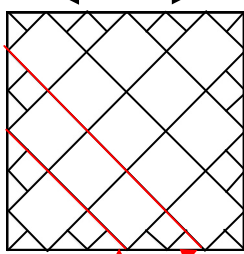
9. Lock the groove onto the seam allowance and slide the ruler unit the center alignment dashed line and tick-mark are on the seam.

Trim the first two sides and then turn the ruler and unit around to expose and trim the remaining two sides.

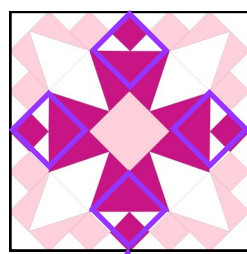
Example: If the BIA unit should be 4" finished, then half-way of 4" is 2". Align the ruler with the 2" dashed line on the seam and the tick-mark (green) is also on the dashed line.

How to Change from On Point to Straight Set by Adding Corner Triangles (as in a Square in a Square unit)

Straight Set Block



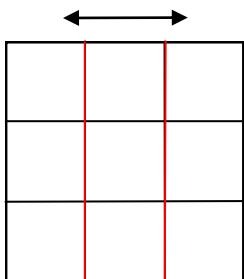
Diagonal Seams



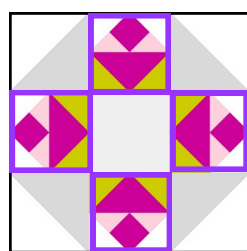
Birds in the Air
On Point

All Birds in the Air On Point units must be used in straight set blocks with diagonal seams.

Straight Set Block



Straight Set Seams



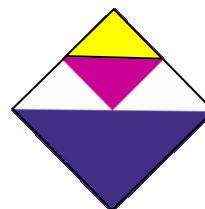
Birds in the Air On
Point (as in Square
in a Square)

But the unit can be converted for use in straight set blocks with straight set seams by turning it into a square in a square unit. The BIA is still on point, but with the addition of corners, it can now be used in straight set blocks.

Follow the instructions and make the Birds in the Air unit in the size you'd like and trim. Then add the corner triangles and trim using our Flying Geese ruler. Easy!

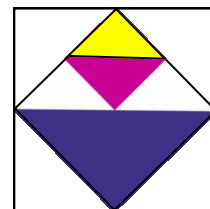
Birds in the Air On Point (BIAOP) Units

Two at a Time Method







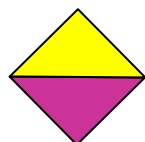
On Point

OR

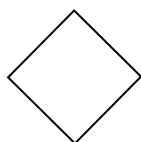


As in Square in a Square

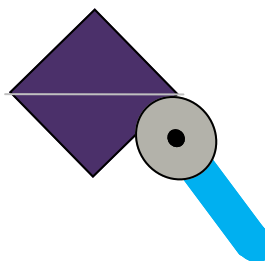
Finished Size BIAOP	HSTOP Square Size  	Trim HSTOP to Size:	Cut Squares 	Cut Squares 	Corner Triangles (as in Square in a Square)
2" x 2"	2 1/2" x 2 1/2"	2" solid line	1 1/2" x 1 1/2"	2 3/4" x 2 3/4"	2 1/8" x 2 1/8"
3" x 3"	3 1/4" x 3 1/4"	3" solid line	1 7/8" x 1 7/8"	3 1/4" x 3 1/4"	2 7/8" x 2 7/8"
4" x 4"	4" x 4"	4" solid line	2 1/8" x 2 1/8"	4" x 4"	3 1/2" x 3 1/2"
5" x 5"	4 3/4" x 4 3/4"	5" solid line	2 1/2" x 2 1/2"	4 3/4" x 4 3/4"	4 1/4" x 4 1/4"
6" x 6"	5 1/2" x 5 1/2"	6" Perimeter	2 7/8" x 2 7/8"	5 3/8" x 5 3/8"	5" x 5"



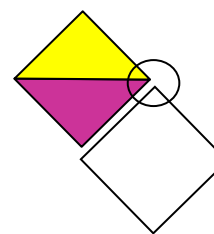
Make HSTOP and **trim to size**.



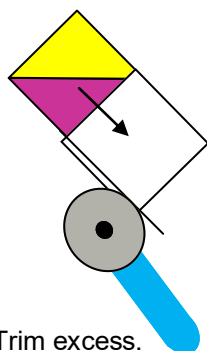
Cut 4 squares for BIAOP unit.



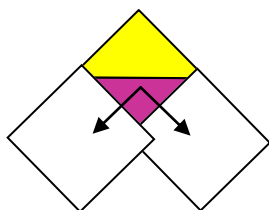
Cut 2 squares. Cut them in half diagonally.



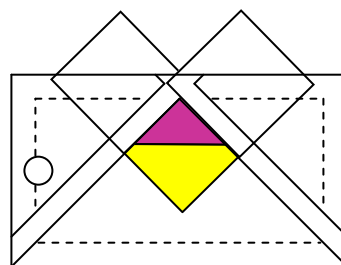
Align HSTOP and oversized square with right sides together and matching at circle. Stitch 1/4" seam. Trim excess.



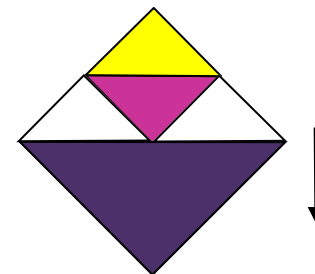
Trim excess.



Align oversized square to other side of HSTOP. Stitch 1/4" seam.



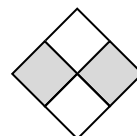
Use Bloc Loc Flying Geese Ruler to lock onto both seams and trim excess across top edge as shown.



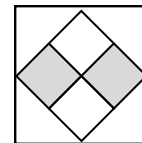
Sew triangle to trimmed section. Press. Trim to size.



Four Patch On Point (FPOP) Units





On Point





As in Square in a Square

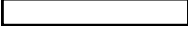

Single FPOP Cutting Sizes

Finished Size FPOP	Cut Size of Squares  Makes 1 FPOP	Corner Triangles Cut (2) Squares 	Sew FPOP & Trim to Size
2" x 2"	1 3/8" x 1 3/8"	3" x 3"	2" solid line w/1" dashed line on seam
3" x 3"	1 3/4" x 1 3/4"	3 3/4" x 3 3/4"	3" solid line w/1 1/2" dashed line on seam
4" x 4"	2" x 2"	4 1/2" x 4 1/2"	4" solid line w/2" dashed line on seam
5" x 5"	2 3/8" x 2 3/8"	5 1/4" x 5 1/4"	5" solid line w/2 1/2" dashed line on seam
6" x 6"	2 3/4" x 2 3/4"	5 3/4" x 5 3/4"	Center 3" dashed line on seam & trim around ruler

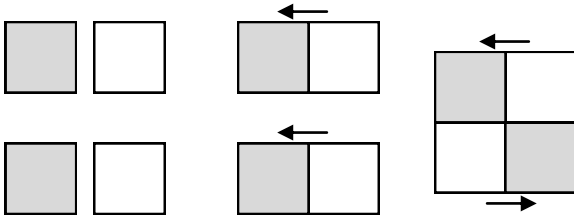
WOF FPOP Cutting Sizes

Finished Size FPOP	Cut Size of Strips  1 ea. 	Number of FPOP from 2 Strips
2" x 2"	1 3/8" x wof; stitch & sub-cut into 1 3/8" widths	15
3" x 3"	1 3/4" x wof; stitch & sub-cut into 1 3/4" widths	12
4" x 4"	2" x wof; stitch & sub-cut into 2" widths	10
5" x 5"	2 3/8" x wof; stitch & sub-cut into 2 3/8" widths	8
6" x 6"	2 3/4" x wof; stitch & sub-cut into 2 3/4" widths	7

Fat Quarter FPOP Cutting Sizes

Finished Size FPOP	Cut Size of Strips  1 ea. 	Number of FPOP from 2 Strips
2" x 2"	1 3/8" x 20"; stitch & sub-cut into 1 3/8" widths	7
3" x 3"	1 3/4" x 20"; stitch & sub-cut into 1 3/4" widths	6
4" x 4"	2" x 20"; stitch & sub-cut into 2" widths	5
5" x 5"	2 3/8" x 20"; stitch & sub-cut into 2 3/8" widths	4
6" x 6"	2 3/4" x 20"; stitch & sub-cut into 2 3/4" widths	3

Single Four-Patch On Point (FPOP) Units

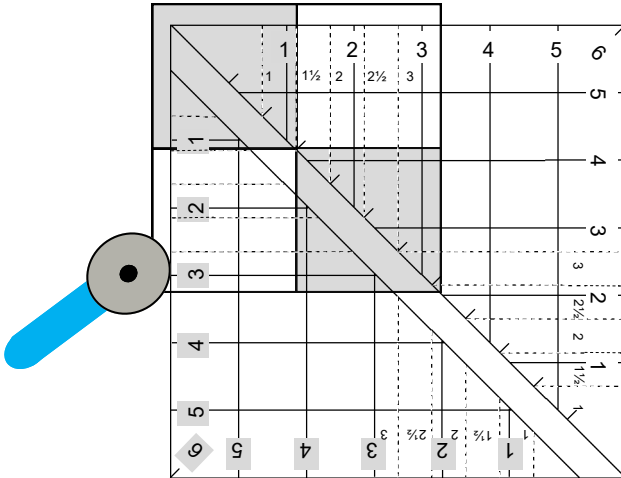


Sew squares together and press the seams in the direction indicated. Rotate the bottom section around and match at intersection, right sides together. Stitch seam.

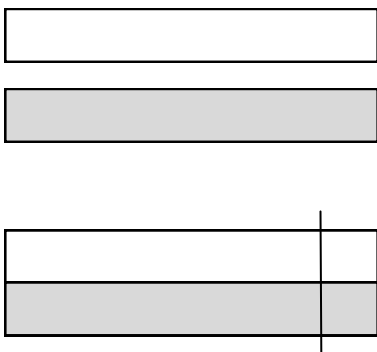
Press the seam either open or split the back to reduce bulk.

To trim this unit, align the solid and dashed lines on the seamline and trim the first two sides.

Pick up the ruler and turn the unit around. Align again to the same markings and complete the trim.

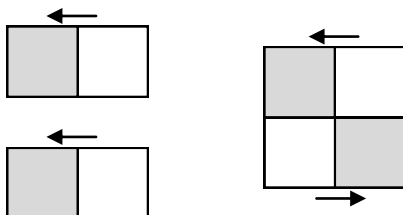


Multiple Four-Patch On Point (FPOP) Units using Strips from



Stitch the strips together lengthwise using 1/4" seam allowance and press the seam toward the darker fabric.

Sub-cut the strip set to the width specified for the size unit you are making.



Use two sub-cut widths for each FPOP unit. Rotate the bottom section around so the colors are opposite.

Align the units with the seams nestled, edges are even and sew the seam. Press the seam either open or split the back seam.

Trim the same way as indicated above.