Box Corner Cushions

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The calculator is the best way to 1 determine exactly how much yardage will be required for any box corner cushion. It also creates a scale rendering of the single panel of fabric needed to complete a project. The renditions are very accurate, including pattern matching requirements — both vertically and horizontally. This increased functionality introduces some complexity which justifies the instructions that follow. In addition, some necessary assumptions for seams and should be made explicit more about all of this in the following paragraphs.

Note the question marks in parentheses on the screen. A short description of the role of each input control can be displayed by touching the accompanying question mark. Page | 2

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***	sailrite.com	
The Sailrite Fabric Calcul	ator	
Main Menu		
Back		
BOX CORNER CI "The 30 Minute C		
	>°	
Unit of Measurement	• inches	Omm
A. Finished Width (?)		inches
B. Finished Length/Zipper (?)		inches
C. Thickness (?)		inches
Quantity (?)	1	
Fabric Width (?)		inches
OrientationCushion length on fabrie: (?)	• Length	○Width
Calculate		
OTE: Our goal is to make the Fabric Calculator as accurate as poporoughly. Satirite will not be held responsible for any miscalcular this software. Make a Box Corner Cushion - The 30 ONLY CUSHION I	tions, cut fabric, or purci	hased fabric as a result

Figure 1: The Home Screen

The resulting text box can be retired by hitting the "exit" button.

Enter the following measurements:

Page | 22.5, 72.75, 3.5, 1, 54 — leave

2| 22.5, 72.75, 3.5, 1, 54 — leave "orientation" at the default "Width" and hit "Calculate".

Decimal numbers must be used to dimension cushions with fractional measurements when entering length and width and thickness into the calculator. Fractions are not required when the millimeters are used, but inches must often be subdivided and that can make initial data entry a little tedious. To convert 3/8 inch, for

example, to a decimal divide the numerator by the denominator (which, in the case of 3/8, yields 0.375).

Fraction	Decimal
1/8"	0.13
1/4"	0.25
3/8"	0.38
1/2"	0.50
5/8"	0.63
3/4"	0.75
7/8"	0.88
1"	1.00

Figure 2: Decimals

Faullo Width (1) Orientation--Cushion length on fabric: (?) OLength Width Calculate Key Dimensions: 2 fabric panels will be sewn together side by side (each panel will be 54.54 inches x 54 inches). Cut size of fabric = 54.54 inches x 76.65 inches (76.65 side runs along the width of the fabric, it will be the zipper opening, the backside of the cushion). Cut corner notches 1.58 inches wide by 1.69 inches deep. Cut center notches 1.58 inches wide by 2.15 inches deep. Cut size of foam = 23 inches wide x 73.23 inches length. Zipper allowances = 0.62 inches. Seam allowances = 0.5 inches. Centering margin = 15.67 inches. List of Materials: Decor & Upholstery Fabric = 3.03 yards. Foam = 23 inches x 73.23 inches - 1 each Seamstick 1/4" Basting Tape for Canvas and Upholstery = 1 roll. Thread from Sailrite Continuous Zipper Chain #5 White or Black = 6.72 Feet Zipper Slider (non-locking) #5 Coil White or Black = 1 each Cushion Wrap Silk Film 54" = 1 roll. Panel Rendition 2 lengths <-- Fabric Width --> Seam Allowance (0.5 inch) in Yellow Zipper Allowance (0.62 inch) in Red Cut to 76.65 Corner Not 1.58 on F bric Width x 1.69 on Fabric Length Center Note Center Not<mark>ches =</mark> 1.58 on Fabric Width x 2.15 on Fabric Length centering margin = 15.67 OTE: Our goal is to make the Fabric Calculator as accurate as possible, but please double-check all results noroughly. Sailrite will not be held responsible for any miscalculations, cut fabric, or purchased fabric as a result

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Figure 3: Hit Calculate

Key Dimensions

The box labeled "Key
Dimensions" displays all the

Page | measurements needed to build the

cushion cover. These dimensions are applied visually in the rendition that follows. The cutouts at the corners and along the seam allowance edge will be used to create accurate corner folds insuring a snug cushion fit.

Published fabric width figures are often "nominal". That is, the actual fabric will sometimes be wider than the published figure. Usually the edges of these fabrics will be rather ragged. It is intended that this extra material will be trimmed away or utilized as seam allowance. So the published width (not the "actual") is always what should be entered in the fabric width input field. And trim your fabric roll to this published width before locating panels using offsets from the edge (margins) provided by the calculator.



Trimming Excess Width beyond the Nominal

The calculator automatically builds in a 0.5 inch (12.7 mm) seam allowance when it is necessary to join two panel segments together. Thus 0.5 inch (12.7 mm) is added to each of seam segment. If two segments were used to create a given length, they would total 1 inch more than the finished length. The rendition in the example that we have considered thus far is made up of a two lengths of fabric sewn together side by side so their combined width is reduced one inch by the single seam. Seam allowance is always assumed to be

0.5 inch for each segment. It cannot be changed.

The cutout dimensions are also Page | calculated by the calculator to provide ⁷ for .5 inch seam allowance. In addition there is a reduction in the dimensions to insure a snug fit for the cover. The finished sewn "diagonals" at the cushion corners (this measurement defines the cushion cover thickness – the matter will become clear later) will generally be .5 inch less than the thickness of the foam. But the calculator will vary this more or less depending on the thickness of the foam. Thicker foam requires a bigger reduction to keep the fit snug.

Cut the Fabric Blank

Mark the indicated rectangle on the backside of the fabric. Cut it with a hot knife if possible. Then mark (again on the backside) the cutouts. And cut them away with a hot knife.



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Figure 4: A Clear Plastic Ruler can be of help marking the cutouts

Sew the Zipper

With the fabric face down, fold a .62 inch hem onto the back side of the cover on the two edges marked in red on the rendition. This can be done accurately by marking a line on the fabric twice that depth and folding to it.

Then with the fabric still face down, baste the "zipped together" zipper tape in place on one hem (this will be the back side of the cover) with the bulge in the zipper coil facing away and down or to the face surface of the cover cloth. Let the zipper overlap the length of the cover by one inch or so on both ends.

The folded outer edge of the Page | fabric should be lined up under the center of the intact zipper teeth.

Now fold the fabric back on both sides so the face surface is up. Baste the second hem in place over the exposed portion of the zipper tape so that the zipper teeth are covered.



Figure 5: Cover is right side out – zipper is under the two hems – ends should match



Break the zipper apart (just peal it apart from one end or the other). And sew it in place with a row of Page | straight stitches.

Close the Cover

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Place basting tape on the back side along one edge marked in yellow on the rendition with the cover face down.

Also place short strips of basting tape along the cutout edges that parallel this yellow edge.

Bring the other yellow edge over and smooth it in place all along the edge. This will close the cover. Run straight stitches .5 inches inside these two matched edges. Reverse to lock the stitches at the beginning and end.

Close the zipper by forcing the slider in place and running it all the way down the length of the zipper. Then force the slider on again and run it half way down the length of the zipper. The zipper will be closed with the slider in its center.

Sew the Corners

Now remove the backing paper from the short strips of basting tape

Page | that were secured along the inner sides of the cutouts. Then fold the corners together on these tapes.



Figure 6: Folding the Corners
Figure 7: The Fold at Zipper's End



These are the diagonal folds mentioned earlier. They will be sewn in place with a row of straight stitches just .5 inches inside the edge with the seam allowance folded the same way at both ends of the cover along each Page | seam on the "yellow" edge.

Cut away excess zipper and reinforce the closure at each end of the zipper by sewing a piece of scrap fabric an inch or so square right over the closed zipper end.

Insert Foam

Open the zipper by sliding the zipper pull all the way back and separating the teeth that remain engaged. Turn the cover right side out by passing it through the zipper opening.

Push out the corners.

Wrap the foam in silk film if it is likely to be exposed to water. If so you will be able to use a vacuum to compress the foam and easily slide it in place.

If not some effort will be required to insert the foam, but be assured that it will fit!