

Step/fill stitch:

Generally used for:

Filling a large area or shape.

Lettering with a bar width of approximately 10mm or more

Shape with a bar width of 10mm or more

Normal: This will cause the outlines to be stitched with a normal version of the stitch type.

Obi: This is a variation of step/fill. Any outlines assigned this effect will be stitched with a series of parallel running lines.

Photo stitch: This is a variation of step/fill. Any outlines assigned this effect will be stitched with a series of satin bars of different thicknesses that match the photographic image that has to be active when using this effect.

Pitch: Value represents the density of stitching in mm. Standard pitch for 100% rayon embroidery thread is 0.4mm. Increasing this value would cause less stitches to be generated which would be appropriate for lighter fabric or thicker thread. Decreasing the value would increase the number of stitches and would be suitable for unstable or very dense fabric e.g. towelling

Length: Value relates to the length of each stitch that will be generated. Standard size for a fill stitch is between 3mm-5mm (default 3.5mm) Increasing the value will cause less stitches to be generated in the outline, decreasing this value will cause more stitches to be generated

Comp: All embroidery will tend to pull in, adding a compensation value will counteract this. Can be inputted in % or mm, if inputted in % the value will be based on the width of the original outlines

Pattern: The pattern value represents the offset that will be used when the step/fill outlines are stitched. The default is 33% Varying the value will cause different textures/patterns to occur within the step/fill stitching

Square U-turn: Ticked on step/fill stitches are squared off on each side

Range: Relates to areas of step/fill that contain **Block Vector Patterns**. The value controls the distance between repeated block vector shapes along the rows of the pattern. The value is a % of the stitch length used in the fill/step effect. E.g. if the stitch length is set to 4mm and a range value is set to 50% then 50% of 4mm is 2mm. There would be a 2mm gap between each shape. If the range value is set to 0% then the **Block Vector Shapes** will touch each other

Indent: Value allows the edging pattern of a fill area to be adjusted (an indent stitch is the first stitch as the fill stitch turns to stitch the next fill line of stitches)

U turn filter: Ensures that no small stitches occur at the edge of the step stitch shape.

Graduated step: Ticked on...a graduated step/fill effect will be generated. Stitching will begin at the selected pitch size and gradually become more open through the shape in the direction of the step angle. The greater the % value the more open the density will become, in the opposite direction a negative value should be entered

Overlap: Value represents the number of rows of stitches that will be used to overlap areas of a step shape where stitching may pull apart

Trapunto: Netting style fill, for best results a large pitch should be used of 1mm or above

Vector with pattern: Relates to any areas of step/fill that contain a **Vector Fill Pattern** created using the vector fill icon.

Curve fill: Ticked on...activates a curve fill, must be used with the edit block vector setting

Filled hole stitch mode:

Option relates specifically to any areas of step/fill that contains a **Baggy Vector**

If **Single Stitch** is highlighted then any baggy vector areas will be stitched as satin stitch

If **Random Pattern** is highlighted then any Baggy Vector areas will be stitched as a random step stitch

If **Normal Pattern** is highlighted then any baggy vector areas will be stitched as normal step stitch

Edit lock stitches: Selecting this option allows the satin lock stitches to be customised

Edit lock vector: Allows any block vector patterns to be edited when assigned to a step/fill stitch

Photo stitch settings: Effect will only be visible if a photo stitch effect is being used

Photo Max Width: The photo max width setting determines the maximum width of stitching that will occur on each line when the Photo Stitch effect is used

Photo Negate: If this box is ticked then the Photo Stitch image will be stitched as a negative version

Photo Crop: If this box is ticked then the Photo Stitch image will be cropped and any background will not be stitched