The formula would be as follows:

To determine the starting square size:

Step 1: The box height + the square size

Step 2: Multiply Step 1 by 1.5. The answer is your starting square size (and includes your seam allowance).

To determine the corner length to sew:

The box height is always the length of the sewn corner.

Example:

If you want a 4"-high and 6"-square box, then:

The starting square size is:

Step 1: 4" + 6" = 10"

Step 2: 10" x 1.5 = 15" starting square size.

The corner length is 4" (the same as the height of the box)