

Chapter 1 : Fabric Calculator by Sailrite

Sailrite's Fabric Calculator provides custom estimates for window curtain fabric. Enter the dimensions of your window and receive a custom fabric yardage estimate instantly.

However, if you know the exact material density and elasticity, you can enter those parameters. Manufacturing dimensional tolerances may cause slight inaccuracies in the actual results, not to mention the effects of poor material handling along with slight variations in material properties and impurities. If in doubt, cut slightly long and grind to final values. You can measure the frequency for note verification using any number of software programs listed here. Additional Must Read Caution Here: While orchestra grade chimes typically do not go below the C5 octave, they are not tuned for the fundamental frequency, which is the basis for all the calculators on this website. An orchestra chime that is tuned for C5 will typically be cut for a length around C2 and then hand tuned to become a perceived note of C5. Pipes are passageways, tubes are for structural builds. For the purpose of tubular bell chimes, we consider them the same. The important parameters are the outside diameter, the inside diameter and the type of metal. On the other hand, a rod is a solid metal cylinder that can produce a very different sound compared to a tube. The DIY calculators on this web site can predict the resonant frequency for a tube or a circular rod and their hang point location. If you want to design and build a chime set using rods rather than tubes all you have to do is set the inside diameter to zero and enter the outside diameter and type of metal into the DIY calculator. If you are trying to decide between using a tube or a rod as the chime element, one important difference is the sustain time of the musical note. Typically, a rod will have a much longer sustain time, and in some environments, this maybe desirable but annoying in others. Another difference between tubes and rods is their length for a given note. A rod is shorter than a tube to strike the same note, for the same metal. In addition to smooth surface metal rods, I have tested steel rebar and the sound was awesome. Because of the hardness, rebar exhibited a wonderful sustain time which helped to hold on to the overtones. I did not test the accuracy of the DIY calculator but I suspect it will be close. I would suggest selecting your notes based on steel, and while the notes probably will not be completely accurate, the ratio among the notes should remain the same. An important issue to consider among various metals is the weight difference. The longer sustain time from using a rod may offset the increased support weight requirement caused by the rod. The Build Plan Select the number of chimes typically 3 to 8 for your set and the musical notes. It is helpful to understand the limitations for effective note selection as discussed in the section on the bell-like chime. Keep in mind the physical size for the set. Whether you use Pre-calculated dimensions or one of the DIY calculators, observe the length for the longest chime as a guide for overall size. Remember to include extra length for the wind sail that hangs below the chimes. Make certain to use a cutting disk designed for the type of metal you plan to use. Smooth the ends to remove sharp edges and to provide a professional appearance. Place an old towel or cloth on a table to protect the chime from scratches. Slightly chamfer or round the outer edge. Drill the support holes at the hang-point location provided by the Pre-calculated table or the DIY calculator. Using a V-block, center the block before drilling by lowering the drill bit to the bottom of the vee and then clamp the block to the drill table. How to drill the support holes without a drill press or V-block: Remove the band and lay it on a table. Flatten the band so a crease forms at both ends. Position one crease at your mark and then rotate the tube over to the second crease and mark that location. The two holes will be opposing. Depending on where the support line exits the chime, from the inside or outside, one or the other sharp edges of the thru hole require de-burring. First, first remove the burr using a long round file or sandpaper on a stick. Finish the task by using a section of coat hanger wire with a small bend at the far end. Place the wire in a drill and insert the bent end thru the hole. As you rotate the wire, lightly pull back on the drill and the bent wire will bend over any inside burr. Coat hanger wire may be too soft. Instead, use a modified small Allen wrench. Cut off most of the shorter length with a grinder and bend the wrench slightly so the angle is increased from 90 degrees to approximately degrees. Select the method or style for the top support disk or ring and select the material to be used. For a long time my favorite was treated lumber used for decking, although it did needs a weatherproofing sealer. Also, white or red cedar works well

and coat with a weather proof sealer. The engineered wood for decks makes an excellent support plate and striker. If you know of someone installing a new deck using engineered wood, perhaps you can get a few scraps. One board is expensive and may not be worth the cost, but scraps are useful. Also, a half-inch thick nylon cutting board old or new works well. Some people will shop flea markets for that special circular disk made of most anything from metal to plastic plates, etc. Select the top support disk cutout pattern for your specific tubing size and number of chimes in the set. You may need to print two copies one for the support pattern and hole locations, and one for the striker. Weather protect the top support disk or ring, the striker and the sail with a UV protective finish. Decorate the chime tube as desired. A few suggestions here. Select the line, cord or chain for supporting both the chime tube and the top support disk. Select the style for hanging the chime tubes , i. Bottom aligned is best because it allows the striker to easily contact the end edge of all chimes, the ideal strike location. Top aligned may have a more aesthetic appeal and on occasion some like center alignment. The first overtone dead zone is very narrow and easily overcome with a slightly off-center strike. Select the sequence for locating the chimes on the support disk or ring. Attach the support line or chain to the chime using a simple jig you can make. Utilized an appropriately sized darning needle for threading line through the top support holes and tubes during assembly. In your workshop, temporarily hang the support disk or ring just above eye level. Depending on your alignment selection top, bottom or center hang each chime according to both the alignment requirement and the chime sequence diagram. Or you can use an alignment jig as described here. Hang the striker according to the alignment diagram and avoid striking exact dead center for any chime. All three locations work well when you keep the striker away from the center dead zone for the first overtone.

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