

quick & easy

Cove Calculations

Setting up your table saw to create custom coves is easy to do with this handy calculator.

■ Cutting coves at the table saw involves passing the workpiece over the blade at an angle. With this handy calculator, you can figure the angle to use when clamping the fences to the saw top, as shown in the drawing below.

To use the calculator, simply enter the width of your workpiece, the desired cove height and width, and blade thickness in the boxes on the right. When you press the "Calculate" button, the results needed to cut the cove will show up in the boxes in the drawings below. Then you can print this document and take it to your shop.

When setting up the fence locations, make sure the blade is raised to the desired cove height. This way, you can locate the fences

based on where the blade enters and exits the insert plate on the final pass. Then lower the blade height to 1/8" and make the first cove pass.



= Width of Workpiece

= Width of Cove

= Height of Cove

= Blade Thickness

$$\text{Fence Angle} = \cos^{-1} \left\{ \frac{W_c - T_b}{10 * \sin(\cos^{-1}(1 - H_c/5))} \right\}$$

Where:
 H_c = Height of finished cove
 W_c = Width of cove
 T_b = Thickness of blade

