

### APPLICATION: RAISED PANEL DOOR CONSTRUCTION

Choose stock size as appropriate for your project. For example, 3/4" x 2" stile & rails and 5/8" thick panels (without optional back cut) are common for cabinet doors. Use your stock size and door size to calculate the following:

Stile length = Door height

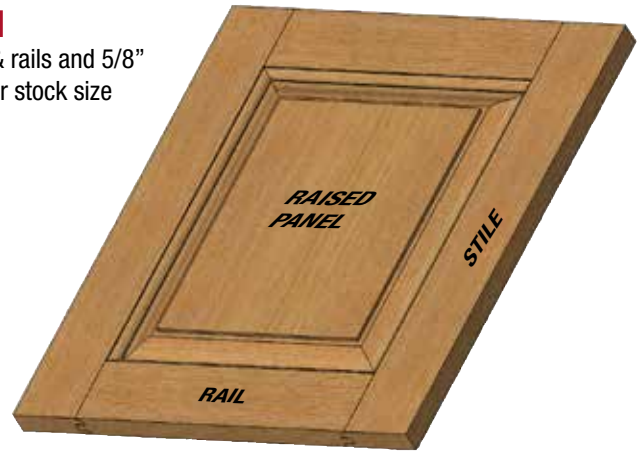
Rail length = Door width - width of both stiles + Interlock

Panel height = Door height - width of both rails + Interlock - Expansion

Panel width = Rail length - Expansion

Interlock = 3/4" (3/8" per side) on Whiteside full size Stile & Rail bits

Expansion: Generally 1/8" on cabinet doors. Can vary with door size, green condition of wood, anticipated exposure to high humidity, and species of wood. The Stile bit cuts the entire length of the inside edge on both the stiles and the rails. The Rail bit is used to make the matching cross grain end cuts on the rails only. The Raised Panel bit cuts all four sides of each raised panel face down on the router table. Set Raised Panel bit height for proper tongue thickness. Tongue should be 1/4" for the full size Stile & Rail bits. Allow extra stock if you plan to use the optional back cutter. Use the Standard Glue Joint (page 23) or biscuits for added strength when gluing up larger panels. Cut all components and test fit. Then glue up and reassemble. Glue only the stile and rail joints. The panel should be allowed to "float" to allow for expansion and contraction. You may choose to use anti-rattle snakes to prevent the panel from rattling. Make your own by running a 1/8" bead of 100% silicone caulk on wax paper. Allow to dry. Cut into pieces about 3/4" long. Insert in each groove at every corner while assembling. Check the door for squareness immediately after gluing up. It may also be helpful to pre-stain the raised panel because part of the concealed portion of the tongue may become visible later due to contraction. Complete the door by adding a door edge pattern (page 30) around the outside edge.



### SMALL RAISED PANEL OR RAISED PANEL BACK CUTTER



This bit offers a safe and economical way to make that optional backside cut on raised panels. It is suitable for use with any of our Stile & Rail bits on page 28. This bit can also be used as a shallow raised panel bit for smaller projects.

Part #	Shank Dia.	Large Dia.	Cutting Length	Overall Length
5850	1/2"	2-1/2"	1/2"	2-1/4"

### SHAKER STYLE RAISED PANEL 15° Pattern

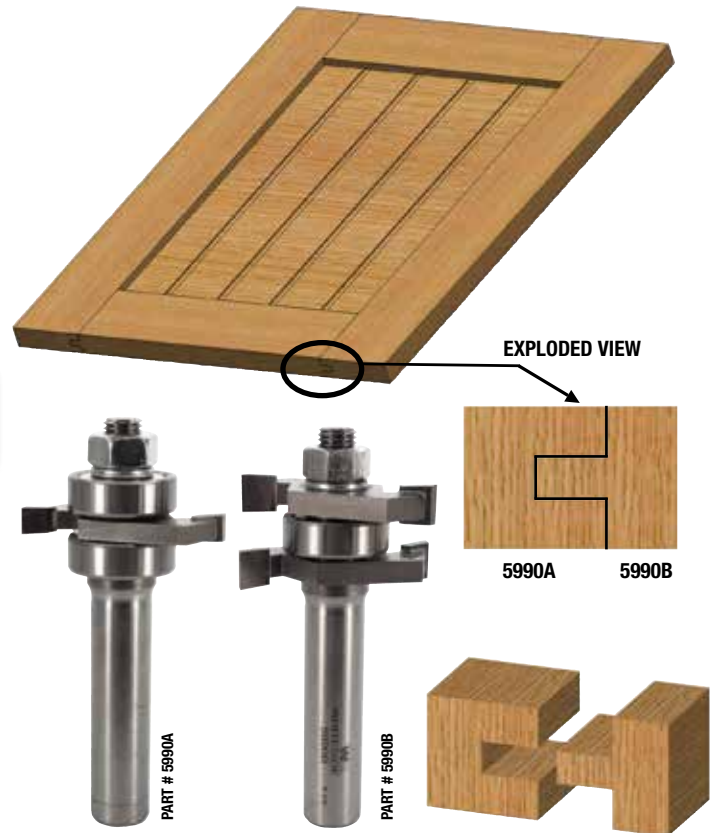
This set comes with three bearings (B3, B7, B8) to change the length of the tongue. Hex key included.



Part #	Shank Dia.	Cutting Dia.	Cutting Length	Overall Length
5980	1/2"	2"	9/16"	2-3/8"

### SHAKER STILE & RAIL

These sets are for cabinet door construction with undersized 1/4" plywood panels (Actual panel thickness of 7/32" or 5.5 mm).



Part #	Pattern	Cutting Length	Large Dia.
<b>1/2" SHANK</b>			
5990	Shaker	13/16"	1-5/8"