

# BAR STOOL PROCEDURE

Name: \_\_\_\_\_

## Leg Procedure

- 1) Break out stock for the legs (Rough sizes)  
\_\_\_\_\_ pieces \_\_\_\_\_ thick, by \_\_\_\_\_ wide, by \_\_\_\_\_ long
- 2) Cut to rough length on mitre saw of \_\_\_\_\_ long
- 3) Rip to rough width on table saw of \_\_\_\_\_ wide
- 4) I should now have \_\_\_\_\_ pieces that are \_\_\_\_\_ wide by \_\_\_\_\_ long  
- write your name on the end of each piece in **pen**
- 5) Joint a face size on all the pieces - mark them
- 6) Joint a face edge on all the pieces - mark them
- 7) Plane all pieces to \_\_\_\_\_ thickness
- 8) **IF YOU ARE GLUING WOOD TOGETHER TO MAKE LEGS** clamp each of the 4 legs  
- use 3–5 bar clamps or C-clamps to ensure NO gaps
- 9) **IF YOU GLUED WOOD TOGETHER TO MAKE THE LEGS** scrape off excess glue  
- use a chisel
- **IF YOU GLUED WOOD TOGETHER TO MAKE THE LEGS** joint one edge again on all 4 pieces and mark them  
- make sure the face side is against the fence
- 11) Plane legs to thickness of \_\_\_\_\_ thick to make them square
- 12) Using the mitre saw cut one end on a compound angle of \_\_\_\_\_ degrees  
- **HAVE THE TEACHER HELP YOU!!!**
- 13) Using the same compound angle cut to final length of \_\_\_\_\_

## Rail Procedure

- 1) Break out stock for top and bottom rails (Rough size). It will be 1 piece of wood that will make up all 8 pieces later.

The piece will be 1" thick by \_\_\_\_\_ wide, by \_\_\_\_\_ long

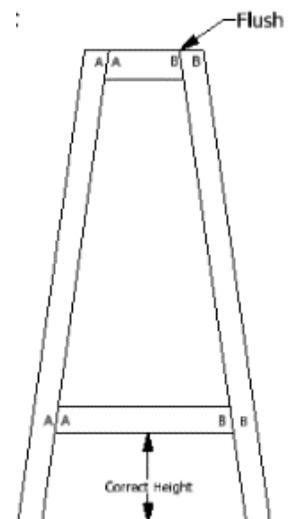
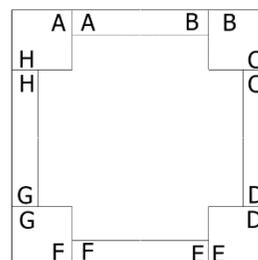
Bottom	Bottom	Top	Top
Bottom	Bottom	Top	Top

- 2) Cut to rough length on mitre saw of \_\_\_\_\_ long
- 3) Rip to rough width on table saw of \_\_\_\_\_ wide
- 4) I should now have 1 piece that is \_\_\_\_\_ wide by \_\_\_\_\_ long  
- write your name on the end in **pen**
- 5) Joint face side and face edge and mark it
- 7) Plane it to  $\frac{3}{4}$ " thickness
- 8) Rip out 2 pieces to final width of \_\_\_\_\_ wide
- 9) Cut one end on a \_\_\_\_\_ degree angle on BOTH pieces using the mitre saw
- 10) Using the same \_\_\_\_\_ degree angle cut the top 4 pieces to final length of \_\_\_\_\_ long.  
Cut 2 of the lower rails at \_\_\_\_\_ long and the last 2 at \_\_\_\_\_ long using the mitre saw  
- use a "stop" on the mitre fence

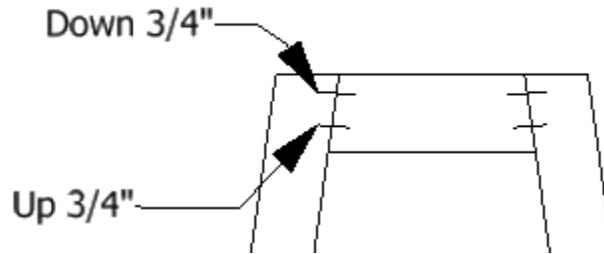
## Dowel pin layout

- 1) Lay your stool on the workbench in two halves. Place the rails between the legs in the correct position. Hide any defects or cracks by putting the poor sides of the legs and rails to the inside. Get 2 fast acting clamps and clamp the 2 legs and two rails together. Do this twice. Now, clamp the two halves together.

- label the legs and rails from the top as shown in the diagram (A-H)
- line up the top rails flush to the legs, then the bottom rails to the correct height
- line up all the rails flush to the outside on the legs



- 2) With the stool clamped, measure down from the top of the rails 3/4" or 20mm on the outside all the way around the stool - place a pencil mark across the legs and rail



- 3) Measure up 3/4" or 20mm from the bottom of the rail all the way around the stool - place a pencil mark across the legs and rail as above

- 4) **HAVE THE TEACHER CHECK IT**

- 5) Get a dowel jig from the teacher and set it up to drill the holes in all the rails

- 6) Clamp it to the end of your rail  
- line it up with the pencil marks you made in step 2 and 3

- 7) Drill the hole - move the drill up and down to prevent the drill bit from clogging

- 8) Repeat steps 6 - 7 for the remaining holes

- 9) Drill the holes in the legs.

- 10) Clamp it to the side of your leg  
- line it up with the pencil marks you made in step 2 and 3

- 11) **HAVE THE TEACHER CHECK IT BEFORE YOU DRILL**

- 12) Drill the hole  
- move the drill up and down to prevent the drill bit from clogging  
- repeat for the remaining legs

- 13) Router the legs and/or rails if necessary

- 14) Sand the legs and rails with 80, 120, 180 and 220 grits before you assemble  
- it easier now then later



## **Top Procedure**

- 1) Break out stock for the top (Rough sizes)  
\_\_\_\_\_ pieces \_\_\_\_\_ thick by \_\_\_\_\_ wide by \_\_\_\_\_ long
- 2) Cut to rough length on mitre saw of \_\_\_\_\_ long
- 3) Rip to rough width on the table saw of \_\_\_\_\_ wide
- 4) I should now have \_\_\_\_\_ pieces that are \_\_\_\_\_ wide by \_\_\_\_\_ long.
- 5) Joint a face side and face edge on all of the pieces - mark them.
- 6) Rip to final width of \_\_\_\_\_ wide plus 1/16" (1mm)
- 7) Re-joint the table-sawn edge ONCE
- 8) Glue the pieces together as illustrated  
- make sure the face side is down and FLUSH when gluing
  
- 9) Scrap off the glue
- 10) Plane to thickness of \_\_\_\_\_
- 11) Put an X in the piece, then using a compass draw a circle \_\_\_\_\_ in diameter
- 12) Band saw round, then disk sand to shape
- 13) Router the edges
- 14) Sand to 220 grit

## **Final Assembly Procedure**

- 1) Place TOP (good side down) on the workbench. Make sure the workbench is free of anything that could scratch the top.
- 2) Place bottom part (leg/rails) onto the top and centre it from all 4 sides.
- 3) Insert #8 - 1 1/4" screws through cleats and screw pieces together.
- 4) Stain project 3 times, then satin wax 1 coat.