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RedTOOL
WOODSHOP
PLANS



End Grain Cutting Board Plans



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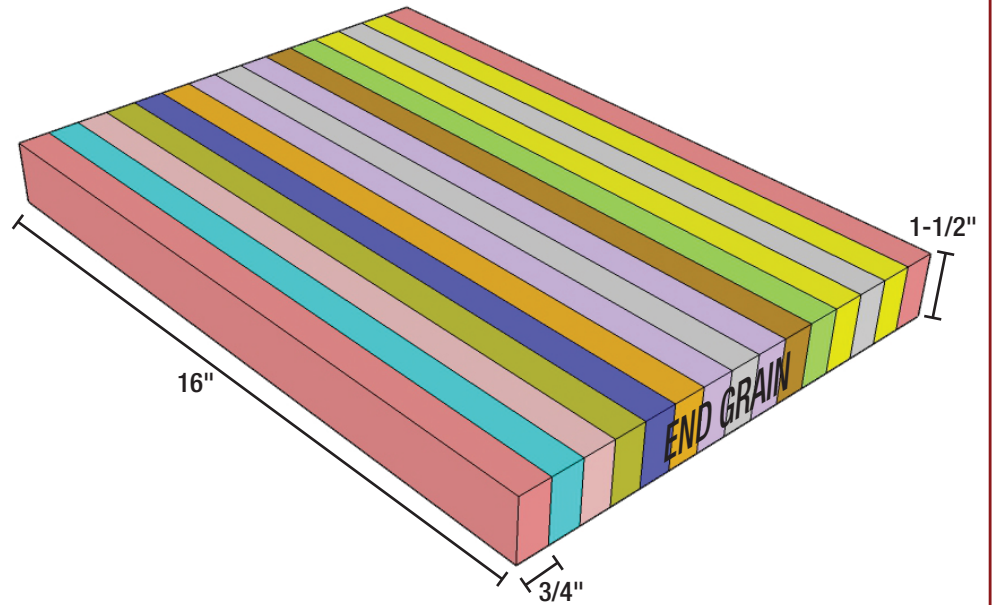


1 Preparing Wood

Prepare 15 strips of various hardwoods to 3/4" thick x 1-1/2" wide x 16" long.

Glue up the strips on the wide edges to create one large assembled board.

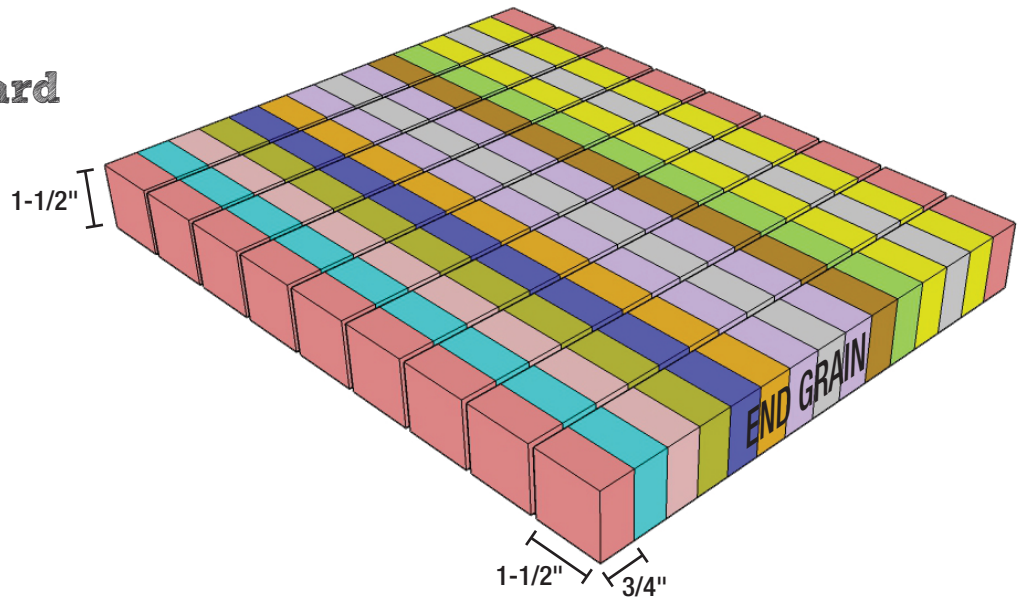
When dry remove the clamps.



2 Cross-Cut Board

Send the board through your planer to flatten both sides.

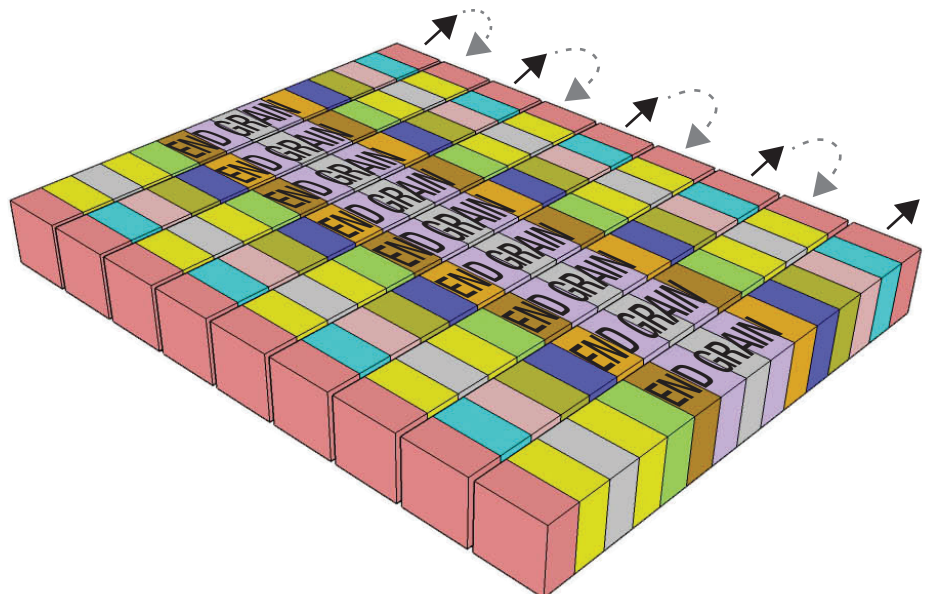
Cross-cut the board at the table saw into 9 strips that are 1-1/2" wide.



3 End Grain Up

Flip each strip so the end grain is facing up and then rotate every other one to create an offset pattern.

Glue up the board. When dry remove the clamps.



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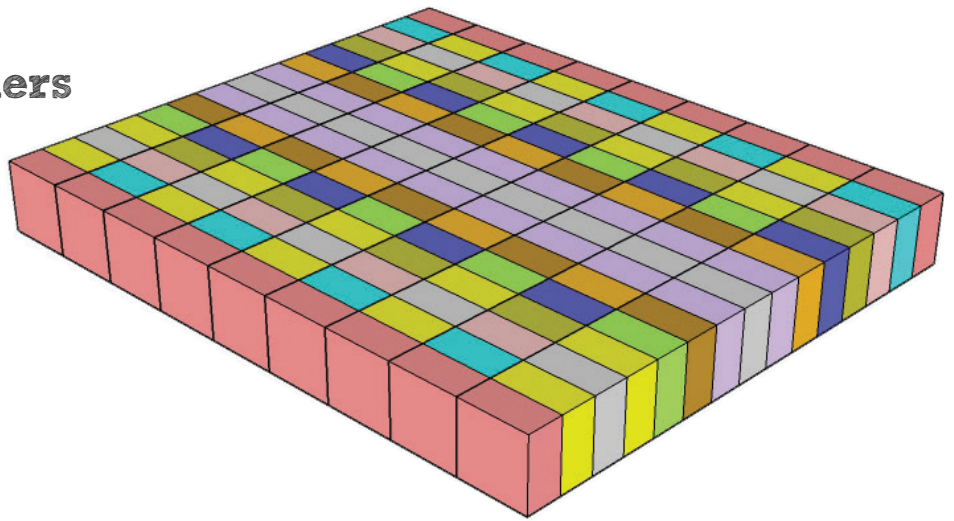
Squaring & Corners

Square up the cutting board.

Use the Rout-N-Plane Benchtop Board Mill, a router, and one of our spoilboard router bits to flatten the cutting board. Set the depth of cut on your router to cut no more than 1/8" of material per pass.

Once one side is flat, flip it over and flatten the other side.

Once the board is completely flat, use the corner jig and a router to round the corners.



TOOLS USED TO FLATTEN & ROUND CORNERS

- Rout-N-Plane™ Benchtop Board Mill - XL
SKU: BTBM-XL



- Corner Jig – Deluxe Set
SKU: CJ-SET-DL-24

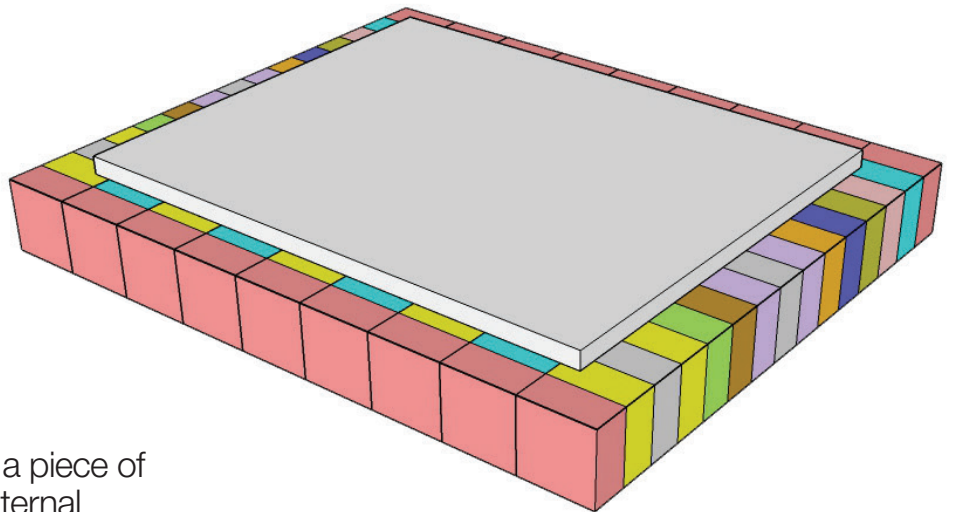
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Juice Groove

To add a juice groove to the cutting board we're going to use an internal template, a guide bushing, a trim router with our StabilMax Trim Router base, and one of our juice groove router bits.

Mark 1-1/8" in from all edges. Cut a piece of 3/8" thick plywood to match the internal space you marked out, this will be your template. Use some double-sided tape to secure the template to your cutting board.

To cut the juice groove, turn your router on and slowly tilt the router down and reference the guide bushing up against the template. Carefully plunge the juice groove router bit into the cutting board and move the router in a counter-clockwise direction. Keep the bushing tight against the template at all times.



After you make a complete pass around the cutting board, turn the router off and let the bit come to a complete stop before removing the router from the cut to make adjustments to the depth of cut for the next pass. Make a minimum of 3 separate passes to cut the juice groove to final depth.



TOOLS USED TO CREATE THE JUICE GROOVE

- Ultra-Shear™ Juice Groove Bit
SKU: US2500JG
- Ultra-Shear™ Juice Groove Template Guide Bushing
SKU: USJGTGB



- StabilMax Trim Router Base
SKU: SMTROB-M-23

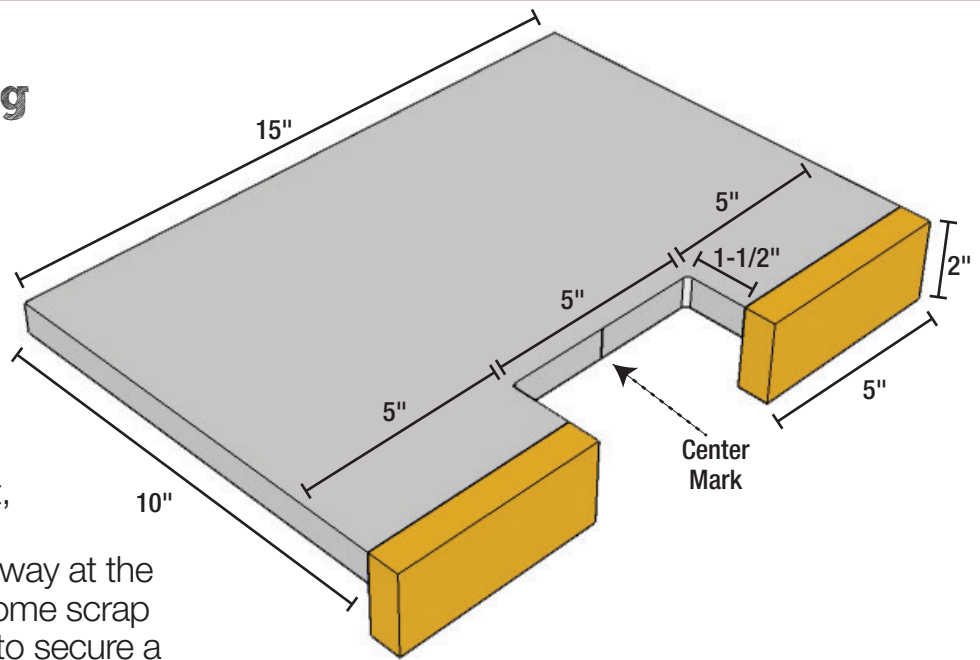
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Handle Cutout Jig

To add handles to your cutting board you'll need to create a jig using 3/4" plywood. You can make the handle cutout as big or small as you'd like. The dimensions I went with are provided in the figure.

To create a perfect handle cutout, first mark out the size on your jig. Rough cut most of the material away at the bandsaw or with a jigsaw. Use some scrap plywood and double-sided tape to secure a temporary template to the layout marks on your jig. Use a router and a flush trim bit to cut the jig to match your temporary template.

Once finished, remove the scrap plywood template. Attach two pieces of plywood to the front of the jig to act as a stop so you can quickly reference the front of the jig to the edge of your cutting board.



TOOLS USED TO USE CREATE HANDLE JIG



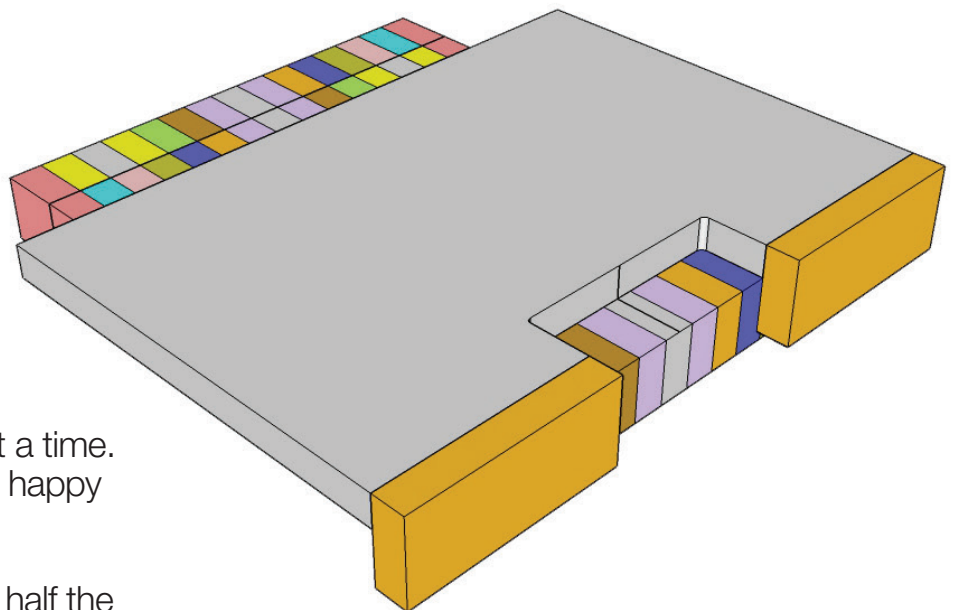
- Ultra-Shear™ Solid Carbide Compact Compression Pattern and Mortising Router Bit
SKU: US2512PCM

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Using Handle Jig

To use the handle jig, align the center mark on the jig with the center mark on the bottom of your cutting board. Use your trim router with the stabilmax trim router base and one of our Ultra-Shear Bowl Bits. Adjust your router to make 1/8" passes at a time. Adjust the router down until you're happy with the depth of the handle.

Typically I like to make my handles half the thickness of my cutting board. This cutting board is 1-1/2" thick, so my handle is 3/4" deep.



TOOLS USED TO USE THE HANDLE JIG



- Ultra-Shear™ Bowl Bit
SKU: US27250BD



Finishing Touches

Sand the cutting board completely to 120 grit.

Use a spray bottle to spray water on the cutting board. This raises the grain on the board prior to final sanding. If you skip this step, your cutting board will be extremely fuzzy after the first time you wash your cutting board. Once the cutting board is dry, give it a final sanding to 180 grit. Wipe the board with a cloth or rag to wipe away all of the dust.

If you'd like to add cutting board feet, now is a good time to lay out and pre-drill holes for the screws.

Finish the cutting board using food safe mineral oil. I like to make my own finish using a combination of food safe mineral oil and yellow beeswax. If you'd like to make your own, follow the recipe below!

Jay's Cutting Board Wax Finish

Ingredients:

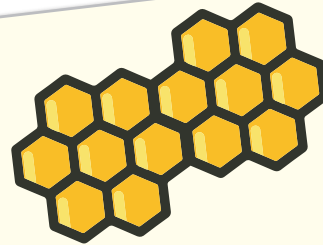
- 1/2 gallon of mineral oil (4 - 16oz bottles)
- 1lb bag of yellow beeswax pellets

Make It:

- First cover your work surface with old plywood to protect your work surface.
- Pour the mineral oil into the crock pot then add the beeswax.
- Turn the crock pot to the highest setting.
- Stir periodically.
- The wax should fully melt in about 30 minutes.
- Transfer the melted wax mixture into container(s). Shallow containers or tins with a lid work best.
- Use caution this is very hot. It is useful to use a turkey baster or a measuring cup to transfer the mixture to avoid spilling.
- Let it cool and solidify.

Use It: Apply a liberal amount of the Cutting Board Wax Finish to all surfaces of the board. Allow it to sit 20-30 minutes. Use a clean cotton cloth to buff. Apply 1-2 coats and your board is ready to use. To revitalize used cutting boards, add a thin coat of the wax then buff after a few hours.

Store It: Store containers covered in a cool dry location.



NOTE

DO NOT WASH YOUR CUTTING BOARD IN THE DISHWASHER. HAND WASH ONLY WITH SOAP AND WATER.

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