



4-23 Applying clamps



4-24 Allowing pieces to dry



4-25 Cutting glued pieces

getting glue in the area of the dowels (4-20). Use the dowels to align the two pieces and apply clamps (4-21 through 4-23). Let these dry for about a half an hour, and repeat until all the pieces are glued (4-24). Once you have glued all the pieces, cut to a thickness of approximately 2½ inches all the way around (4-25). It is advisable to leave a flat spot at the waist area (see photo) for ease in applying clamps during the lamination of the sides. Check to make sure that the inside face is perpendicular. Careful alignment while gluing only one piece at a time should result in a perpendicular surface, but if there are any irregularities they can be corrected with a pattern maker's rasp (see photo opposite chapter title, page 44).

Finishing the Side Mold

After final shaping, the entire mold should be given a couple of coats of shellac and then a final finish with any water-based clear finish. All fixtures should be finished this way. The shellac shields the fixture from moisture exchange, and the water-



4-26 Applying finish

based finish protects the surface from spills. Water-based finish is used for the final coats because it doesn't really have a solvent, so if you spill something on it you won't mar the surface (4-26).

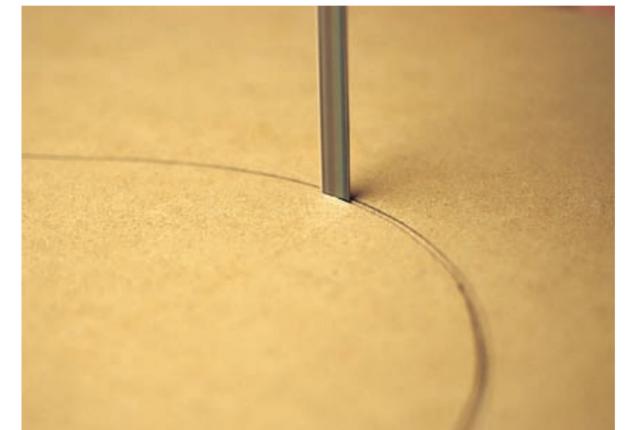
LINING MOLD

The linings, which are glued to the sides to provide a glue surface for the top and back, are fashioned out of four laminations, which are bent and glued in a mold. This mold has two pieces, a male and female component, if you will. Sandwiched in between are the laminations. We will make two of these molds out of MDF or plywood. The final thickness of the mold will be ⅝ inches. You can use ⅝-inch MDF or plywood, or you can use ¾-inch MDF and sand down to ⅝ inches in a drum sander if you have access to one.

Each mold requires eight clamps. Having sixteen will enable you to make two linings simultaneously, speeding up the entire process. To begin, using the half plantilla, lay out the shape on the 12-inch × 26½-inch piece, with the centerline along one of the twenty-six ½-inch edges (4-27). Situate the template so that an equal amount of material extends beyond the template in both directions. Both faces of the mold that touch the linings will be covered in ½-inch gasket material. The additional ½ inches will compensate nicely for the width of the sides on this piece, so cut on the band saw close to the line and clean up the remainder of the way on the drill press using a sanding drum (4-28 and 4-29). Now place the waste piece shaped like the plantilla back where it



4-27 Laying out shape



4-28 Cutting with band saw



4-29 Using sanding drum