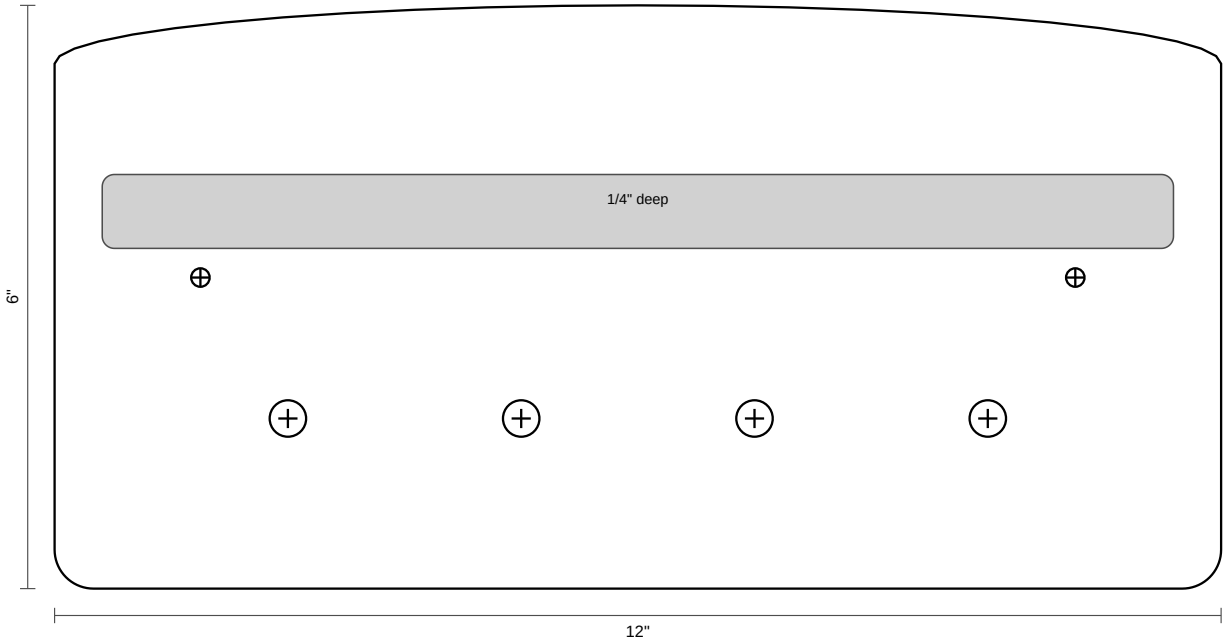
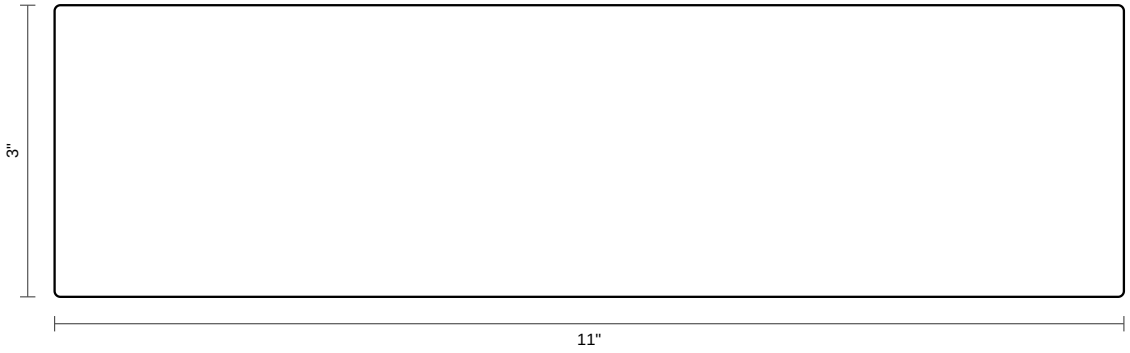
# Key and Mail Rack

12" wide wall rack: a shelf for mail and wallets over four dowel pegs for keys.

**Back - 3/4" stock**




**Shelf - 3/4" stock**




### *Machine & stock*

CNC router, 1/4" end mill.

Stopped dado 1/4" deep for the shelf; four 3/8" peg holes 1/2" deep; two screw holes hidden under the shelf.

### *Hardware*

3/8" hardwood dowel, cut into four 2-1/2" pegs.

Two #8 x 1-1/2" screws and wall anchors.

### *Steps*

**1.** Machine the back: dado, peg holes, screw holes, then profile. Profile the shelf.

**2.** Round the shelf's back corners to fit the dado's rounded ends; glue it in.

**3.** Chamfer the peg ends, glue them in, and finish the rack.

**4.** Hang it with screws through the holes under the shelf; the shelf hides them.

### *VCarve toolpaths (in this order)*

**Holes**, layer DRILL_0.190_THRU: 0.190" diameter, through. Drilling toolpath with a matching bit, or spot the centers and drill by hand.

**Holes**, layer DRILL_0.375_DEPTH_0.500: 0.375" diameter, 0.500" deep. Pocket toolpath with the 1/4" end mill.

**Pocket**, layer POCKET_0.250: cut depth 0.250", 1/4" end mill. Select every vector on the layer together so islands are left standing.

**Profile, Outside**, layer PROFILE_OUTSIDE_0.750: cut depth 0.750" (through), 1/4" end mill, with tabs.

### *Files*

dxf/key-and-mail-rack.dxf

*Plan view, drawn at about 1:2. Grey = pocket (depth noted), dashed = underside pocket, light fill = through cut. Cut files are full size.*