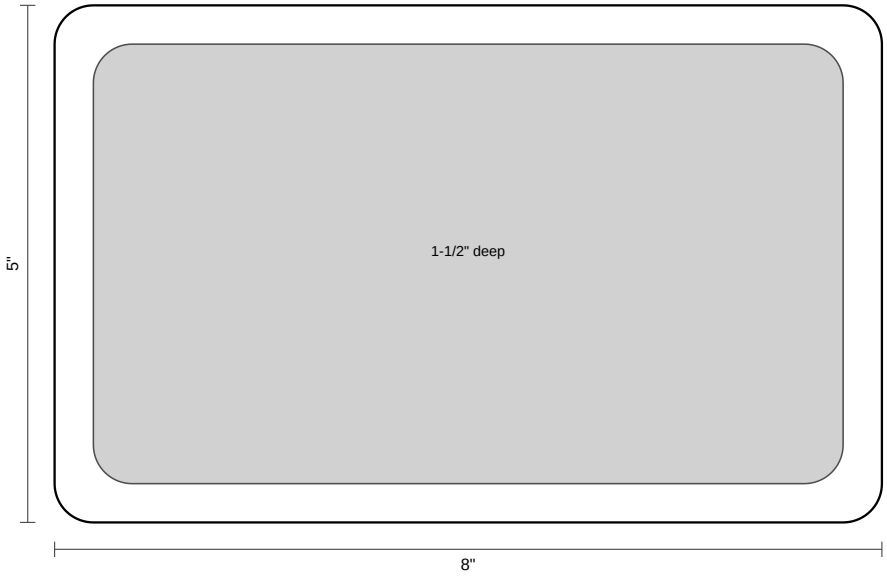
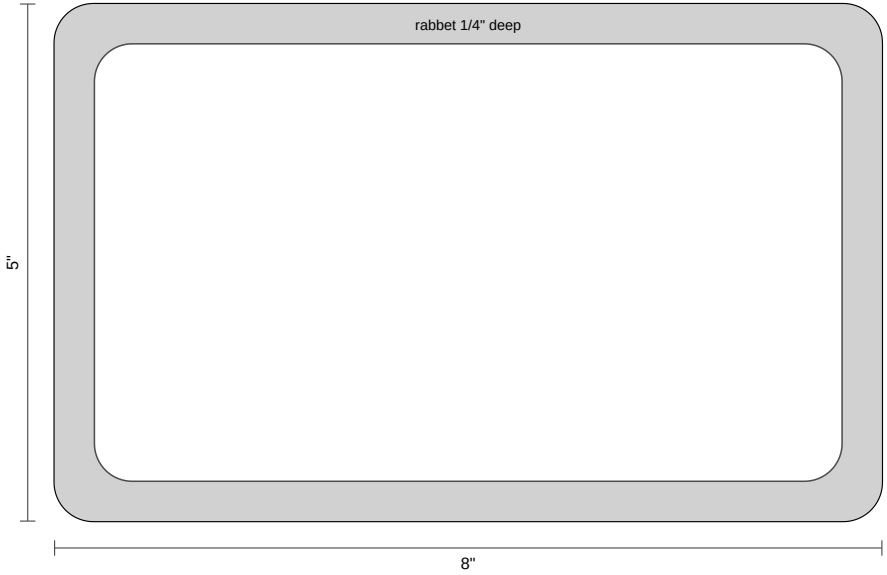
Carved Keepsake Box

8" x 5" x 2-1/4" box hollowed from one block, with a lid whose plug fits the opening.

Body - 1-3/4" stock



Lid - 3/4" stock



Plan view, drawn at about 1:1.9. Grey = pocket (depth noted), dashed = underside pocket, light fill = through cut. Cut files are full size.

Machine & stock

Two VCarve jobs: the body (1-3/4" file) and the lid (3/4" file).

CNC router. The body pocket is 1-1/2" deep, so use a 1/4" end mill with at least 1-5/8" of cutting length, or a 1/2" bit for roughing.

Lid: the pocket and the island on POCKET_0.250 make a rabbet around the edge, leaving a plug 1/64" smaller than the opening. Cut it on the face that becomes the lid's underside.

Inside corners are 3/8" radius, so any bit 3/4" or smaller reaches them.

Steps

1. Body: pocket, then profile with tabs. A ball-nose finishing pass along the inside bottom edge gives a nicer corner (optional).

2. Lid: run the rabbet pocket with both vectors selected, then profile with tabs.

3. Test the fit; if the plug is tight, sand its edges rather than recutting.

4. Round over the outside edges, sand, and finish with DuraGrain Hardwax Oil (12 fl oz) using the included #0000 white palm pad and buff dry after 15 minutes with the grey microfiber cloth. Flock or felt the inside if you like.

VCarve toolpaths (in this order)

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.

Pocket, layer POCKET_1.500: cut depth 1.500", 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.

Profile, Outside, layer PROFILE_OUTSIDE_1.750: cut depth 1.750" (through), 1/4" end mill, with tabs.

Files

dxf/carved-keepsake-box-0.750in.dxf,
dxf/carved-keepsake-box-1.750in.dxf