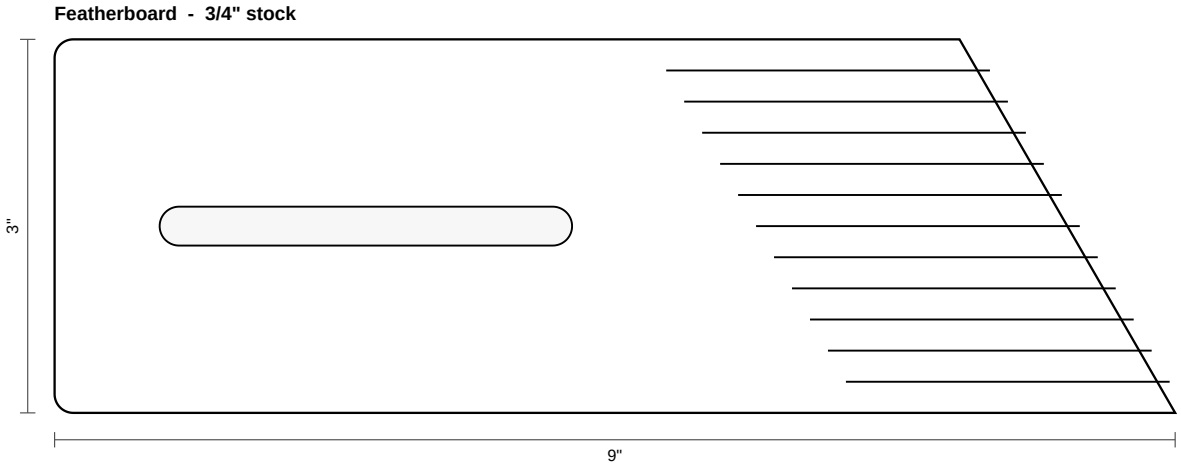
Featherboard

Fingers 1/8" thick on 1/4" centers flex to hold work against the fence; the tips are angled 60 degrees.



Machine & stock

CNC router. The kerfs between the fingers are open lines cut *on* the line with a 1/8" end mill, so they come out exactly 1/8" wide. Everything else uses a 1/4" end mill.

Grain must run along the fingers (left to right as drawn) or they will snap.

The 5/16" slot takes a 1/4" T-bolt or a miter-slot bar bolt.

Hardware

1/4"-20 T-bolt (or miter-bar hardware) with a washer and knob.

Steps

1. Cut the kerfs first (on-line profile, through), then the bolt slot, then the outline with tabs placed away from the fingers.

2. Check that each finger flexes freely; clean out any fuzz with a card scraper.

3. Use it angled so the finger tips point in the direction of feed.

VCarve toolpaths (in this order)

Profile, Inside, layer PROFILE_INSIDE_0.750: cut depth 0.750" (through), 1/4" end mill.

Profile, On (no offset), layer PROFILE_ON_0.750: cut depth 0.750" (through), 1/8" end mill. These open lines are the centers of 1/8" kerfs.

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

Files

dxf/featherboard.dxf

Plan view, drawn at about 1:1.5. Grey = pocket (depth noted), dashed = underside pocket, light fill = through cut. Cut files are full size.