6–8 lb balsa throughout, except where noted

Design (never-exceed) Loads

- Stab load: 7 lb @ 90 mph, CL=0.5
- Root bend mom.: 19 lb-in
- Root bend Ixx: 2.15e-3 in^4
- Root stress: 1100 psi

Horizontal Tail

- 0.75oz glass
- 1/4” soft balsa (4–6 lb)
- 1/8” sheet
- C-grain gives stronger rib-LE joints
- 16:1 TE wedge taper
- 1/16” TE thickness everywhere
- Use generous glue fillets for all rib-LE joints
- 33 deg
- HT21 5.0% t
- LE tangent-slope shaping data
- C-grain for chordwise stiffness
taper to 0.15" thick

1/8"

3/16"