Allegro-Lite Wing Joiners and Angles $_{\sub}$ 1/64" ply makes up for "undersize" 1/8" ply 1/8" ply (0.115") 2 layers CF mat, or 5 layers 2oz glass between filler/rod and bottom sparcap. Makes thick bondline, reducing stress concentrations and peel failure. cap tube to prevent epoxy entry during assembly 11.9 deg 2.0 deg generously flare inside edge of brass tube to reduce stress concentration on rod 2.6" x 3/8" OD K&S brass tube bevel to make trim ply filler after locating with perpendicular completed outer panel used as jig cut carbon rod with carbide to spar or diamond Dremel cut-off disk (wear dust protection) 9.9 deg +/- 0.1 deg 11/32" carbon rod 4.83 in +/- 0.05 ing 2.86 in +/- 0.05 inPermanent outer joint 11.1 deg 0.007" carry-through CF strips endgrain basswood Spar at tip -last rib sparcaps go all the way to tip extend with short lap joints if stock sparcaps are too short 0 (local stresses are very low)