

AIRFOIL, PANEL SECTIONS AND WING PLANFORMS (04/30/09)

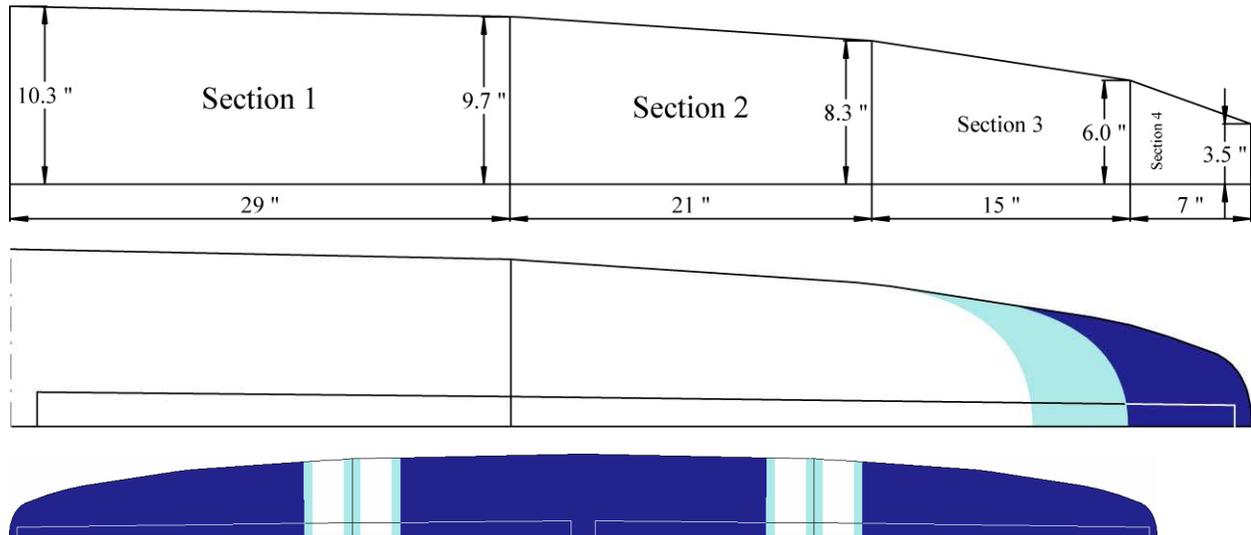
The scale line drawings of panel sections & colored drawings of finished panels were prepared by builder Duane Beck of Warrenton, VA. See the Fine Finishing file about doing color trim schemes.

The airfoil on sections 1 & 2 is the SA 7036 thinned to 8.7%, transitioning to the full SD7003 by the end of Section 3. There is no twist washout. Finished chord dimensions are shown. If cutting your own cores, enter those to plot templates. Set the allowance for skin thickness as .01". Actual core chords will thus be a bit smaller, but finish out to full chords in the bagging process detailed in CONST. File #3, Part 1. That file also addresses flap & aileron chords.

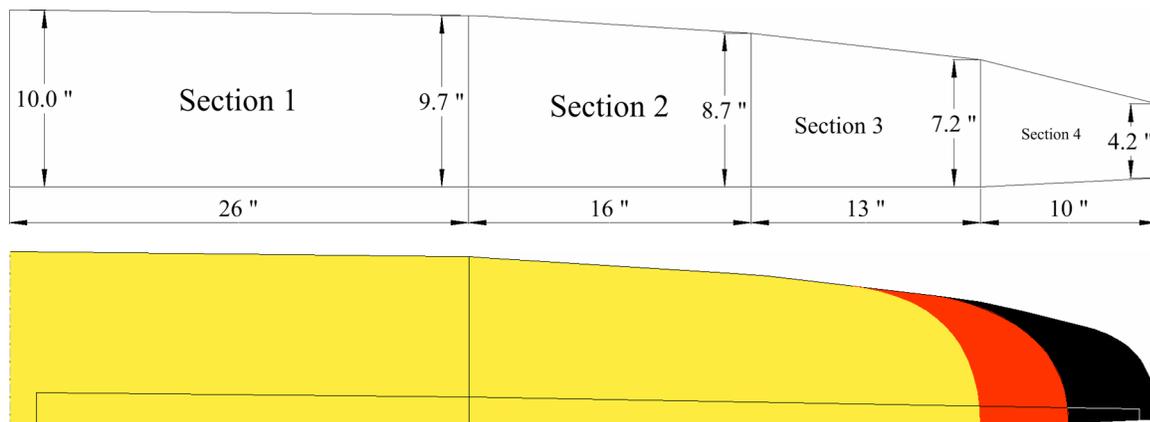
To get the elliptical-like finished appearance, joined cores are rounded at the LE breaks. Text details how then to level core surfaces to avoid high points & compound curves.

Actual wing span is affected by addition of hard endcaps where Sections 1 & 2 butt & by rounding off the squared extreme tips after bagging.

Big Genie/Big Smoothie:



Genie Pro/Smooth Genie Pro: (Section 4 takes forward 1/2" along the TE)



LT/S: (Section 4 rakes forward 1/2" along the TE)

