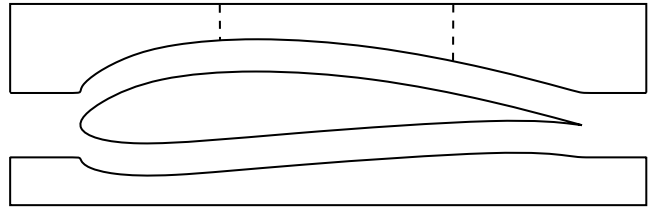


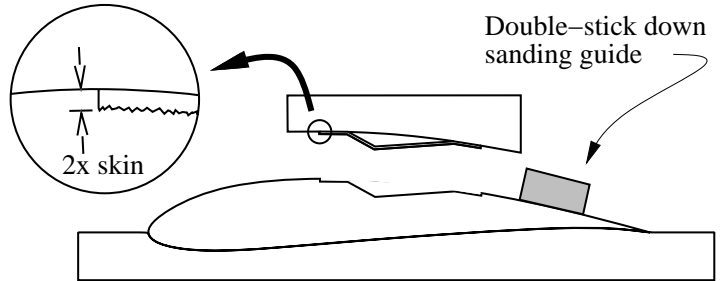
Co-Cured Spoilers for Foam/Glass Wings

M. Drela 18 Jan 00

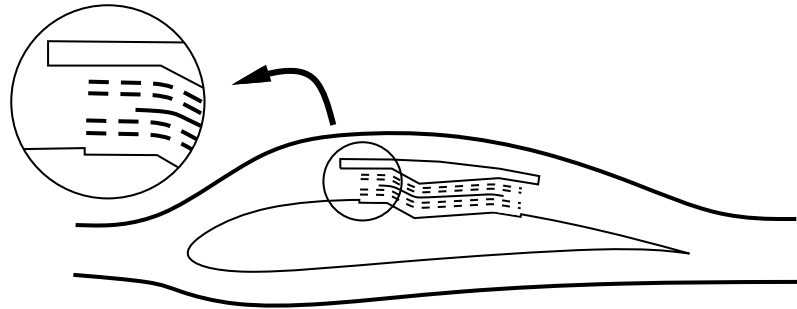
Cut core as usual.
Make sanding block which fits the spoiler area.



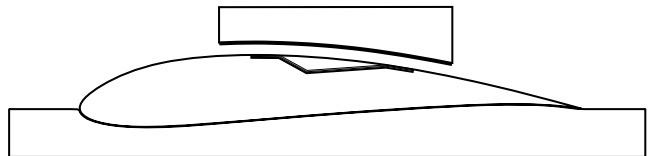
Double-stick spoiler shape to sanding block
Cover with 220 grit sandpaper over width of spoiler plus 3/8" along each edge.
Sandpaper protrudes 2x the skin thickness (build up with paper if necessary).
Sand spoiler divot into core.



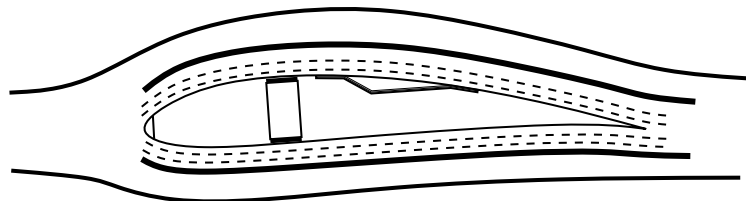
Layer wing-skin glass, Nylon bag-film strip, spoiler-skin glass, and spoiler core over the spoiler divot. The Nylon film separator strip is the width of final spoiler core plus 1/8" along each edge. Vacuum bag as usual, but without Mylar.



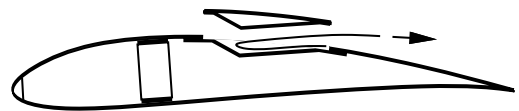
Sand spoiler core down to the glass on each side, and flush with the wing core.



Add spar, leading edge, etc.
Apply wing skin with usual Mylar vacuum-bag technique.
Works best with +/-45 skins, which give ideal torsionally stiff spoilers.



Free the spoiler by (carefully!) cutting down to the Nylon separator strip at its edges.
Pull out Nylon strip at an angle, cutting any reluctant glass fibers as you go.



Mount with tape or kevlar hinge.
Add horn and driving servo..

