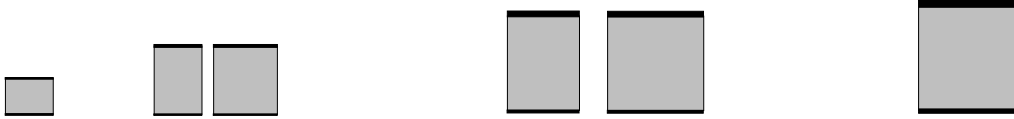
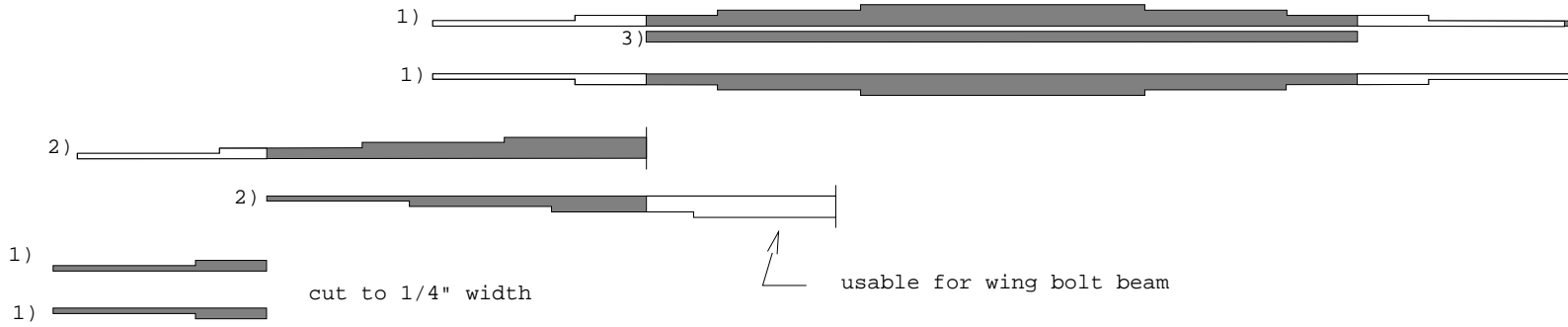


Allegro-Lite

Wing Spar Materials



Aerospace Composite Products
Pre-cured prepreg strips (2/package)

- 1) 9.50 cent 1/2" x 48" x 0.028" -> 0.007" dbl taper
- 2) 7.50 outs 3/8" x 48" x 0.028" -> 0.007" dbl taper
- 3) 6.00 cent 1/2" x 36" x 0.014" constant
- 9.00 joiner 11/32" carbon rod

\$32.00

Wing spar weights

- caps 38 g (prepreg uni CF)
- core 36 g (10,8,6 lb endgrain balsa)
- wrap 4 g (3k Kevlar tow/epoxy)
- join 20 g (11/32" CF rod)
- tubes 12 g (3/8" K&S brass tube)
- boxes 12 g (plywood, glass cloth)
- glue 8 g

120 g

Wing Bolt Beam

- max bolt load 80 lb each
- bending moment 160 lb-in
- beam cap load 400 lb
- cap stress 50 ksi
- center deflection 0.020 in

10-32 Nylon bolts

