



175 lb shear on each bolt
from 14 lb tail sideload
(full rudder at 50 m/s)

1/2" ply
bulkhead

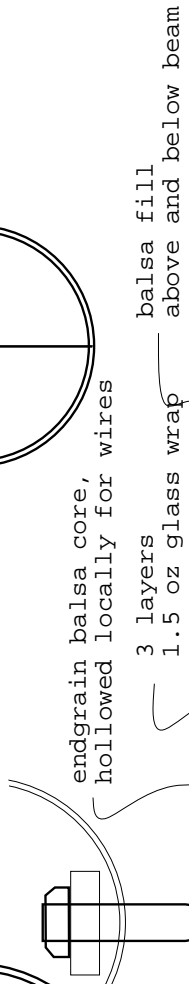
10-32 x 1.75" allen-head bolt

10-32 x 1" Nylon bolt
230 lb shear strength
150 lb tensile strength

8

8

ing: +1.5 deg. relative to fuselage axis



endgrain balsa core,
hollowed locally for wires

3 layers
1.5 oz glass wrap

balsa fill
above and below beam

fiberglass
board
plywood

fiberglass
board

add 5.6 oz CF layer

0.021"x3/16" CF
Multiplex
6-pin connector

+50

-2

+3

3/4" rod ballast
20 oz (lead)
16 oz (brass)

steel

add 3.0 uz uni CF

add 3.0 uz

0

5

10

sheared 3.0 oz CF,
potted against wing