



899 sq. in.

72.50"

65.00"

2.24"

2.00° sweep

2.50"

1.92"

10.00"

25.00"

AILERON

20.00"

FLAP

20.00"

ELEVATOR

16.00"

4.07" dihedral

3.68m
1798 sq.in.

4/30/2016

3.00°

Thermal rudder elevator ship with good legs and aerobatic option.
 NACA 23000 series, no twist.
 Plenty of chord and area for thermal flying and visibility
 Elevator unaffected by flaps.
 Tiny elevator for finer control
 All linkage as stiff as possible.
 20% chord at all control surfaces per SnD.
 Minor 3 degree dihedral, just enough for turns with rudder.
 7 servos

Glide path control from bottom flaps.
 front of flap at 32% chord for pitch neutral.
 slight pitch positive would require down elevon to compensate,
 which would increase camber and drag for the whole wing. Good for a slow landing.
 The flap is probably too big, that is half that size would provide glide path control, but
 the big flap may increase lift at small deflections for use in thermalling. Besides, the big flap would
 look cool.

Tail volume slightly more than SnD.

Features

ballast box in fuse to achieve 15oz./s.f. is AUW = 11 lbs.
 Compromise with a 4lb. ballast box at CG
 use 4 - 16oz topedo weights

build fuse with lot of kevlar between joiner and nose for strength

hard point camera mount to spar at end of elevator, 170 degree lens should show
 only small portion of wing and fuse. point down 30 degrees.
 Also sleeve in rudder post for top mount, with possible link to top of rudder