A 60" WINGSPAN FLYING SCALE POWER MODEL

D.H. C.2 BEAVER

SCALE. 1/4" = 1 FT.

BY

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ALL WOODS ARE BALSA UNLESS OTHERWISE STATED.

DATA.	
SPAN	60"
AREA	368 Dm"
LENGTH	37 3/4"
WING INCIDENCE	+2°
DIHEDRAL	6 1/2°
WEIGHT	30 OZS
ENGINE	1·5 - 2CC

MATERIALS REQUIRED.

STRIP.
1 STRIP OF 1/8" X 1/4" X 36" BALSA
2 " " 1/8" X 1/8" X 36" "
4 " " 3/8" X 3/8" X 36" "
3 " " 1/4" X 1/4" X 36" "

SHEET.
3 SHEETS OF 1/8" X 3" X 36"
2 " " 3/32" X 3" X 36" "
2 " " 1/16" X 3" X 36" "
1 " " 1/4" X 3" X 36" "

MISCELLANEOUS.
1 PIECE PLY 1/16" X 3" X 8"
2 " " 1/8" X 5" X 6"
36" OF 12 SWG. PIANO WIRE.
36" " 18 " " "
18" OF 2" SQ BLOCK BALSA.
SMALL SHEET OF THIN CELLULOID.
2" OF 1/8" DIA DOWEL.
6" " 3/16" " "
6" " 1/4" " "

NOTE THAT SHEETING PROTRUDES 1/8" IN FRONT OF COWL FORMER.

FIG. 2.

BALSA BLOCK SHAPE & CEMENT INTO TAILPLANE.

FIG. 1.

1/4" DOWEL DRILLED TO TAKE WIRE HOOKS. CEMENT DOWEL INTO FIN BLOCK.

1/4" SHEET.

1/8" X 1/4".

1/8" SHEET GUSSETS.

1/8" X 1/4".

CUT FROM 1/4" SHEET.

1/8" SHEET.

1/8" X 1/4".

3/16" DIA DOWEL.

ALUMINIUM HINGE.

1/4" SQ.

1/8" GUSSETS.

1/8" X 1/4".

3/32" DIA DOWELS.

1/4" SQ.

SEE FIG. 1.

1/8" DIA DOWEL.

3/16" DIA DOWEL.

1/16" SHEET ALUM^M

1" DIA TAILWHEEL.

2 PIECES 1/4" SHEET CROSS GRAINED, SAND TO HALF ROUND SECTION & CEMENT TO FORMER 'C'.

FORMER 'A & B'
1/4" SHEET CROSS GRAINED.

9 DUMMY CYLINDERS FROM HALF ROUND BALSA SCRAP. 1/16 DIA PUSH RODS. THREAD IS WOUND ROUND CYLINDERS TO ACT AS FINNING, PLUG LEAD FROM WIRE.

WINDSHIELD STRUTS FROM 1/16" PLY OR BIRCH "T" SECTION.

1/16" SHEET PLANKING.

DETACHABLE COWLING PLANK WITH 1/8" SHEET.

3/8" SQ.

A B C

1/4" DIA HOLES TO TAKE WING DOWELS IN WINGS

1/16" PLY RIBS CEMENT TO FUSELAGE FLUSH WITH 1/16" SHEET COVERING.

1. 1/4" SQ. 2. 3.

CELLULOID.

3/8" SQ.

1/8" SHEET GUSSET.

1/8" PLY GUSSET.

CABIN FLOOR 1/8" SHEET.

COVER SIDES WITH 1/16" SHEET UP TO REAR OF CABIN.

3/8" SQ.

1/8" SHEET PLANKING.

FIG. 3.

SCRAP SHEET.

PLANK WITH 1/16" SHEET ON BOTTOM OF FUSELAGE UP TO FORMER N° 3 ONLY.

WIRE SPURS SOLDERED TO U/C TO STOP FAIRING TWISTING. FAIRING FROM 3/8" SHEET.

1/16" PLY PLATES TO TAKE LOWER PEGS OF WING STRUT.

2" OR 2 1/2" DIA AIRWHEELS.

ALL LONGERONS FROM 3/8" SQ
ALL UPRIGHTS CROSS STRUTS
& DIAGONALS FROM 1/4" SQ.

BACK PLATE OF DETACHABLE COWLING FROM 1/4" SHEET. MAKE ONE OF 1/8" SHEET TO CHAIN DOTTED LINE FOR FRONT PLATE.

PIECES OF 1/8" SHEET CEMENTED TO FRONT FACE OF FORMER 1, AS SHOWN AT FIG. 3. IN SIDE VIEW OF FUSELAGE.

FORMER 'C'
1/8" SHEET.

FORMER N° 1
1/8" PLYWOOD

FORMER N° 2
1/8" SHEET BALSA

SECURE U/C TO FORMER 3 WITH 6 BA BOLTS & ALUM^M CLIPS

FORMER N° 3.
1/8" PLYWOOD.

1/8" SHEET TIPS.

1/8" X 1/2" T.E.

U/C FORMED FROM 12 S.W.G.

3/8" SHEET BALSA ROOF

PAPER TUBE EXHAUST

RECESS ROOF TO FIT UNDER CROSS STRUT.

PAPER TUBE EXHAUST

FIN OMITTED FROM PLAN VIEW FOR CLARITY

SLOT FOR FIN L.E. TO GLUE INTO.

FAIR T/PLANE BLOCK TO THIS LINE

3/16" X 1/8" RIB

LOWER FUSELAGE BLOCK SHAPED TO DOTTED LINE.

SEE FIG. 1.

3/16" DIA HOLE FOR DOWEL IN FIN BLOCK.

1/16" SHEET

1/8" X 3/8" L.E.

1/8" X 3/8" SPAR

3/32" X 5/16" REAR SPAR

TYPICAL WING RIB 22 OFF 3/32" SHEET. 2 OFF 1/8" SHEET

1/8" X 1/2" T.E.

1/16" PLY

BIND & CEMENT TO PLY STRENGTHENING PIECE.

1/4" DIA DOWELS

1/16" SHEET

1/16" PLY

BIND & CEMENT HOOKS TO DOWELS TO TAKE RUBBER BANDS, WHICH PASS OVER FUSELAGE TOP THUS HOLDING WINGS

3° DIHEDRAL AT END RIB.

A

A

SECTION A.A.

1/8" SQ SPAR & RIBS.

1/16" SHEET TOP & BOTTOM.

1/4" X 1/8" L.E.

THE WIRE RUNNING THRO' STRUTS IS BENT TO FORM 2 PEGS, & A HOOK FOR RUBBER BANDS, WHICH PASS UNDER FUSELAGE & AROUND HOOK, ON OTHER STRUT THUS HOLDING STRUTS IN PLY PLATES ON FUSELAGE.

WING STRUT. 2 PIECES OF 1/8" X 3/4" X 13" GROOVE TO TAKE 18 SWG & CEMENT TOGETHER.

THIS END OF WIRE IS BENT TO FORM SMALL EYES.

18 SWG RUNNING RIGHT THROUGH STRUT.

FLYING.

BRING C.G TO POSITION SHOWN & TEST GLIDE IN LONG GRASS, UNTIL A LONG FLAT GLIDE IS OBTAINED. GLIDE WILL BE A LITTLE ON THE FAST SIDE. TRIM TO GIVE SLIGHT TURN TO STARBOARD & MAKE FIRST POWER FLIGHT. MODEL SHOULD TURN TO PORT UNDER POWER & GLIDE TO ST-BD. ORIGINAL MODEL WAS POWERED WITH 2CC HURRICANE & HAD 2° RIGHT SIDE THRUST, & 2° DOWNTHRUST.

COLOUR SCHEME.

COMPLETE MODEL IS COLOURED SILVER, WITH TOP SURFACE OF COWLING RED AS FAR BACK AS FORMER 3.