A 55" WINGSPAN CANARD SPORT MODEL FOR A TOTAL OF 2 TO 4 CC L/R .10 TO .30 CU"

PTERANODON

DESIGNED BY

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7'6

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38. CLARENDON RD WATERFORD, HERTS

ALL WOODS ARE BALSA UNLESS OTHERWISE STATED

MATERIALS REQUIRED

SHEET BALSA 36" LONG
- 9 SHEETS OF 1/32" x 4"
- 5 SHEETS OF 1/16" x 4"
- 4 SHEETS OF 1/8" x 4"
- 1 SHEET OF 1/4" x 2"

STRIP BALSA 36" LONG
- 12 STRIPS OF 1/8" x 1/8"
- 4 STRIPS OF 1/8" x 1/4"
- 6 STRIPS OF 1/8" x 3/8"
- 3 STRIPS OF 1/4" x 1/4"
- 2 STRIPS OF 1/4" x 3/8"

MISCELLANEOUS
- 5" OF 1" x 1" BALSA BLOCK (SOFT)
- 4" OF 1-1/2" x 1-1/2" " " "
- 2" OF 2" x 1" " " (HARD)
- 2" x 5" OF 1/8" PLY
- 3" x 4" OF 1/4" PLY
- 8" x 1/8" DOWEL
- 18" x 3/16" DOWEL
- 28" x 1/4" DOWEL
- 36" x 1" DOWEL (FOR FUSELAGE JIG)
- 1 PIECE EACH 12, 14 & 16 S.W.G. WIRE
- 1 PAIR OF 3-1/2" DIA. AIRWHEELS
- 1/ 2-1/2" SORBO & 1/ 1-1/2" PLASTIC WHEEL

W1 W2 W3 W4 W5 W6 W7 W8 W9

WING RIBS
W2 TO W6: 2 OF EACH 1/16" SHEET
W1 & W9: 2 OF EACH 1/8" SHEET

COVER WHOLE MODEL WITH LIGHTWEIGHT MODELSPAN. GIVE 2 COATS OF CLEAR DOPE

POSITION OF STABILIZER
S1
P1
P2
3/16" DOWEL
INITIAL FLAP SETTING
3/16" DOWEL
1/32" SHEET COVERING
BALSA FAIRING FOR FUEL TANK
1/8" SHEET STRAKE
PAPER TUBES FOR 1/4" DOWELS
POSITION OF BEARER PLATE
CS1: 5 OF 1/16" SHEET
CS2: 2 OF 1/8" SHEET
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12
1/8" SQ. STRINGERS
1/8" SQ. STIFFENERS ON FORMERS
14 S.W.G. WIRE FRONT U/C LEGS
2-1/2" SORBO WHEELS
3/16" DOWELS
3-1/2" WHEELS
12 S.W.G. MAIN U / C LEGS

R1 R2 R3 R4 R5 R6 R7
1/8" SHEET
1/32" X 1/4" CAP STRIPS
1/32" SHEET COVERING TO THIS LINE
1/4" SQ.
POSITION OF BALANCING FINS
5/16" SHEET RUDDER
THIN ALUM. HINGES
ALUMINUM TRIM TABS
SOFT BLOCK
BIND & SOLDER
16 S.W.G. WIRE TAIL WHEEL LEG BIND TO F 12
1-1/2" PLASTIC WHEEL
1/8" SHEET FIN RIBS

FUEL SYSTEM FRONT VIEW
TANK
FUEL CUT-OUT
CLOCKWORK TIMER
TO STARBD ENGINE
TO PORT ENGINE
10 S.W.G. BRASS TUBE 'T' PIECE

1/8" SHEET ENDPLATES

BALANCING FIN
POSITION OF 1/8" SQ. BRACES
BALANCING TAB
1/8" SHEET BALANCING FINS, 2 OF EACH
ALL FORMERS 1/8" SHEET
OMIT HOLES ON F9
OMIT THESE TOP NOTCHES ON F7
F6 & F7 1/8" BALSA

1/8" X 3/8"
1/32" SHEET TOP ONLY
1/32" X 1/4" CAP STRIPS TO ALL RIBS
S1 S2 S3 S4 S5 S6

1/32" SHEET TOP & BOTTOM
1/4" SQ. L. E.
1/8" SQ. TOP & BOTTOM.
PAPER TUBES FOR 1/4" DOWELS.
1/32" SHEET TOP & BOTTOM (BETWEEN SPARS).
1/32" X 1/4" CAP STRIPS TO ALL RIBS BETWEEN SPARS.
1/8" SQ. TOP & W3 BOTTOM.
TEMPLATE FOR ROOT RIB ANGLE.
4" DIHEDRAL EACH TIP
1/8" SHEET
1/16" SHEET COVERING TO TIP TAB
LINEN TAPE HINGE
1/4" x 3/4" T. E.
PORT WING SHOWN DOTTED
STARBOARD WING

No. 2 ENGINE (ALLBON 1.49 SHOWN)
1/16" SHEET COWLING TO SUIT ENGINE
CUT HOLE IN L.E.2 TO SUIT ENGINES USED
CENTER SECTION
16 S.W.G. WIRE CORNER REINFORCEMENT
1100 ALUMINUM .005" TRIM TABS
POSITION OF UPPER BALANCING FINS.
21 S.W.G. COPPER WIRE HINGES ON ALL RIBS.
1/8" SHEET FLAP MOUNTS
FLAP RIBS: 1/16", 12 OF
CEMENT WHEN TRIMMED
1/32" SHEET TOP COVERING
1/16" SHEET BOTTOM
CELLULOID REINFORCED HOLE FOR DOWEL
DIHEDRAL FROM HERE
2 LAYERS OF1/32" SHEET L. E. COVERING TOP & BOTTOM
1/32" SHEET TOP & BOTTOM
1/32" x 1/4" CAP STRIPS
1/32" SHEET BOTTOM ONLY
1/32" SHEET TOP ONLY
POSITION OF FUSELAGE
CG
LE. 1
CS. 1
MOUNT TIMER IN THIS BAY
1/4" SHEET PLATE SPAR
1/4" x 3/4" L. E.
PAPER TUBES FOR 1/4" DOWELS
POSITION OF LOWER BALANCING FINS
LE. 2
CS. 2
Bottom
1/16" SHEET STABALIZER SPAR 2 OF
1/8" X 3/8"
T.E.
L.E.
FLAP 2 OF
STABALIZER
2" DIHEDRAL EACH TIP

P1 & P2 2 OF EACH 1/8" SHEET
OMIT DOWEL HOLE ON P2
INTERMEDIATE STRINGERS OMITTED FOR CLARITY
HARD BALSA NOSE BLOCK

LE. 2 LE. 1 LE. 1 LE. 1 LE. 1 LE. 1 LE. 2
1/4" SQ. L E
U/G BOUND TO BUCK SPAR
CENTER SECTION L. E.
C/S LEADING EDGE BUILT OVER THIS VIEW
12 S.W.G. WIRE U/G LEGS
BIND AND SOLDER
12 S.W.G. BRASS TUBES
DETACHABLE 12 S.W.G. AXLE

1/8" SHEET COWL FORMERS 2 EACH REQ'D.
BOX SPAR FROM 1/4" SQ. TOP & BOTTOM WITH 1/16" SHEET WEB EACH SIDE
CUT SHOWN FOR ALLBON 1.49
1/4" PLY BEARER PLATES 2 EACH

40.50 x 52.50