TIPS - 3 LAMS 1/32 x 1/8 - BLEND INTO L.E. & T.E. & FORM TO FOLLOW MEAN AIRFOIL CAMBER LINE

1/8 x 1/16

AILERON HORN & CONTROL CABLE BELOW

AILERON HINGE LINE

3/32"

FLAP HINGE LINE

1/32 ϕ INDEXING PEG INTO FUSELAGE ROOT RIB

1/32"

+ 1 3/32" DIHEDRAL UNDER THIS POINT

INTERPLANE STRUTS FIX POINTS

1/20 x 3/16

RIBS 1/32 SH

1/16 SH. RIB

RIG WITH 1/32" SPACE BETWEEN WING ROOT RIB & FUSELAGE SIDES

3/32 x 1/8

DIHEDRAL BREAK POINT OF LOWER WING

FLYING WIRES R.P.

RIBLETS SHOWN HATCHED

WORK TOP

+/- 1/32 BLOCK UP SPAR 3/32

LOWER WING ROUNDEL - NO WHITE BORDER

BLUE WHITE RED

2 LAMS 1/32 x 1/16

1/32"

WH BLUE WH

PAPER TUBES @ RIGGING POINTS

HORN & CONTROL CABLES

2 LAMS 1/32 x 3/16

+ 5/8" DIHEDRAL UNDER THIS POINT

AILERON CABLE & HORN

INTERPLANE FIX PTS

COUTER CABANE STRUTS FIX POINTS

1/32 SPICE

1/20 x 3/16

3/32"

1/8 x 1/16

RUDDER PEG HOLE

1/16 x 5/32

1/32 x 3/16 RIBS

GUSSET

HINGE LINE

1/32 x 1/16 SUB SPAR

1/16"

SAND STAB TO LIFTING AIRFOIL WITH "SHARP" L.E.

CUT BLADES FROM PLASTIC BOTTLE, TIP TILTED APPROX 20° LEFT FROM HUB. EPOXY INTO WOOD HUB, BALANCE, PAINT MEDIUM BROWN WOOD COLOR.

ROTATION

1/8 BALSA RINGS - 1/32 COVER ALLOWED

1/64 PLY FRONT RING

NOSE PLUG/KEY SHAPE

BALSA NOSE PLUG

DRILL NOSE PLUG TO PROVIDE 2 1/2 TO 3° DOWN & RIGHT THRUST

3/32" LONGERONS

1/32 SH DECK

3/32" AMMO BELT HOUSING

1/32 x 3/32 STRINGERS

3/32" COAMING

1/16 x 3/32 & AFT

SCARFF RING

1/16 ALUM TUBE CABLE GUIDE

CARB AIR INTAKE

BOTTOM CHORD DIAGONALS 1/16" UP 1/32" CLEAR

RUDDER HORN & CABLE

SUGGESTED MOTOR: 6 TO 8 STRANDS OF 3/16 OR 1/8 TO FORM 3 TO 4 LOOPS 24 TO 26" LONG, BRAID/PLAIT TO FINAL LENGTH OF 14 TO 15"

1/32 PLY TAB, BETWEEN STRUTS, UP BETWEEN RIBS, STRUT FIX POINTS

TYPICAL PIN INTO SPAR STRUT FIX POINTS

SINGLE LANDING WIRE BOTH CABANES DOWN TO BOTH INTERPLANE STRUTS

INNER CABANE

OUTER CABANE

ALL STRUTS 1/16 x 3/16 WOOD OVAL SHAPED

CABANE STRUTS APPROX 1/32 LONGER FOR TRUE LENGTHS

GENERATOR ON RIGHT REAR CABANE STRUT

TYPICAL PIN INTO LONGERON

DOUBLE FLYING WIRES UP TO BOTH INTERPLANE STRUTS

3/32 BRASS TUBE WITH FREE WHEELING BOSS, SOLDERED WASHER, & EPOXYED INTO HUB.

3/8" x 1 1/2 WOOD PROP HUB, CUT 45° FOR BLADES, BLEND INTO BLADES

EPOXY BLADES TO HUB & FILLET

BOTH WINGS SHOWN @ FRONT SPAR THICKNESS

SPACERS BETWEEN SPREADERS & AXLE, THREAD BINDING

PIN UP INTO BOTTOM OF LONGERON

1/64 PLY CORE WITH 1/32 BALSA BOTH SIDES, SAND TO OVAL SHAPE

THREAD BRACING @ FRONT LEGS

SPREADER

AXLE

PIN, THRU EYLET, WHEEL AXLE RETAINER

1/32 M.W. COMPRESSION STRUT

THREAD BINDING

1/4 x 3/32

3/32 ϕ BALSA

SHOCK CORD OVER AXLE, UNDER LEG & BETWEEN 2 WASHERS ON AXLE

SHOCK CORD OVER AXLE, & UNDER TO WASHERS

AILERON HORN & CONTROL CABLE

ALL STRUTS 3/16 x 1/16 WOOD OVAL

INNER & OUTER CABANE INCIDENCE WIRE

INTERPLANE INCIDENCE WIRES

CABANE STRUTS IN INCIDENCE WIRES

AILERON CONTROL CABLE

SINGLE LEWIS

GUN MOUNT

GENERATOR COAMING

VICKERS

SPACER

NOSE PLUG KEY

FUEL CAP

1/32 SH

PWL

FLYING WIRES

1/32 x 3/32 STRINGERS

3/32" LONGERON

ELEVATOR CABLES

1/20 x 3/32 AFT

BLUE WH WH RED WH BLUE WH

RUDDER CABLE

MOTOR PEG

OPEN AREA

1/2 x 3/32

1/32 WOOD METAL SKID & SHOE

2 LAMS 1/32 x 1/16

1/16 x 3/16

1/32 x 3/16 RIBS

SCALE

FIN - NATURAL LINEN BLACK LETTERING BOTH SIDES

THE SOPWITH AVIATION Company Ltd KINGSTON-ON-THAMES

19 N9722

WHITE 19

BLACK NUMBERS ON WHITE FIELD

BUILD COWL WITH 1/64 PLY FRONT RING & 1/8 BALSA RINGS, FORMERS & SPACERS AT 1/4 POINTS & COVER WITH 1 OR 2 LAYERS OF 1/32 BALSA SHEET. PROVIDE SPACER POSITIONS AT LONGERON POINTS.

3/32 SH. FUSE ROOT RIB

1/32 M.W. COMP. STRUT

VALVE ACCESS

AILERON HORN & CONTROL CABLE

VERTICALS AFT 1/16 x 3/32

DIAGONALS 1/16" & 1/32 INSIDE OF LONGERONS

5 & 6 ALLOW FOR 1/32 SH DECK

#1

REARMOST COWL FORMER (1 LAYER 1/32 SH. SHOWN)

BOND PAPER TUNNEL

GUSSETS

1/32 SH.

#2, #3 & #4

#2 SIDE FORMER

GUSSETS AT WING ROOT

#7

#8

FORMERS #1 - 3/32 SH. ALL OTHERS 1/16 OR 1/20 SHEET, ALL STRINGERS 1/32 x 3/32

SEE SEPARATE DRAWING FOR GUN DETAILS.

GENERAL COLOR SCHEME:
"WET" KHAKI - UPPER SURFACES OF WINGS & HORIZONTAL TAIL PLANE, FUSELAGE TOP & SIDES.

NATURAL LINEN - UNDER SURFACES & FIN
ROUNDEL BLUE, RUDDER BLUE & UNIT MARKING BLUE ARE CLOSE TO AEROGLOSS CURTISS BLUE, TAD LIGHTER

COWL, UNDER AFT COWL & SHEETED PORTION TO #2 - ALUMINUM
DARK "OAK" COLOR - ALL STRUTS
LIGHT GRAY/ALUMINUM - RIGGING WIRES & CABLES

FLYING SCALE, INC. 1905 COLONY RD. METAIRIE, LA. 70003	FSI
SOPWITH 1 1/2 STRUTTER SCALE 3/4" = 1'-0"	PLAN S-2 SH. 1 OF 1