Curtiss O-52 FLYING SCALE MODEL

30" WINGSPAN — AREA 129 SQ."

PROPELLER MEASUREMENTS

1½" × 2½"
¾" × 2"
JOIN BLADES AT CENTER
WIRE BRACE

HUB REINFORCEMENT
CUT FRONT FROM 1/16 PLYWOOD
REAR FROM 1/8" HARD BALSA
DOTTED LINES INDICATE CONTEST FLYING PROP

LANDING GEAR DETAIL

DUPLICATE OTHER HALF
CEMENT TO BULKHEAD C'-C'
CEMENT WING PERMANENTLY IN PLACE — INCIDENCE IS BUILT INTO FUSELAGE
3/16" ROUND BALSA FAIRING
2½"
3¼"
1"
¾"

DIRECTION FINDER LOOP — CUT FROM SOFT BALSA

WING REST BULKHEAD
1/16" SHEET BALSA

STABILIZER RIBS

STABILIZER HALF

MAKE TWO & CEMENT IN PLACE
3/8" × 1/8"
1/8" SHEET
1/8" SQ. SPAR
1/8" × 3/8"
1/8" SQ. SPAR

RUDDER RIBS

CUT BOTH STABILIZER AND RUDDER RIBS FROM 1/16" STIFF SHEET BALSA
TRAILING EDGE CUT FROM 1/8" SHEET BALSA

COLOR SCHEME

FUSELAGE — BLUE
WING STABILIZER & RUDDER — YELLOW
COWLING — SILVER

REAR TAIL POST
NOTCH TO FIT STRINGERS

PAINT BLACK TO INDICATE WHEEL CAVITY
1/16" SQ.
LINE UP STRINGER
LIGHT CELLULOID COVERED COCKPIT
RUBBER TUBING ON REAR HOOK
3/32" SHEET
POSITION OF WING STRUT
DO NOT COVER
CEMENT STABILIZER IN PLACE AFTER FUSELAGE IS COVERED
5/8" DIA. BALSA WHEEL — .035 WIRE
REAR HOOK .035 WIRE
BOTTOM STRINGERS ARE OMITTED SO KEEL OUTLINE MAY BE SHOWN
3/16" SQ.
ANCHOR REAR HOOK POST SECURELY IN PLACE
¼" × ⅛" LEADING EDGE

SOLID BALSA NOSE BUILT UP FROM ½" THICK SHEET
COVER WITH 1/16" SHEET
FUSELAGE KEEL CUT FROM 3/32" MEDIUM SHEET BALSA
TIP RIB
CUT TIP FROM 1/8" SHEET
RED
POSITION OF STRUT
MAIN WING SPAR IS 7/16" × 3/32" STIFF
REAR SPAR IS 3/8" × 3/32" STIFF
BLUE
WHITE
1/16" SHEET DIHEDRAL REINFORCEMENT
TRACE RIGHT WING PANEL

PROP CLEARANCE
1 DIA. HARD WOOD NOSE PLUG
PAINT BLACK
2" DIA. BALSA OR AIR WHEELS

WING STRUT

1/8" × ½" MEDIUM BALSA STREAMLINED
9¼"
1 15/16" DIHEDRAL ON EACH TIP
BEVEL ENDS TO FIT

A-A
BUILD UP NOSE AFTER ALL BULKHEADS ARE IN PLACE
C-C
LINE UP STRINGER
KEEL
B-B
FUSELAGE KEEL

1/8" × 3/8" TRAILING EDGE

FUSELAGE CONSTRUCTION METHOD

BUILD FUSELAGE HALVE DIRECTLY ON PLANS — TRIM STRINGERS FROM B-B TO C-C TO MAKE 1/16" SHEET COVERING FLUSH WITH TISSUE

0 ½" 1" 2" 3" 4"

WING RIBS

MAIN WING RIB — MAKE 12
TIP WING RIB — MAKE 2
HALF RIB — MAKE 12

KEEL
1/16" SHEET BALSA NOSE PLANKING
NOTCH BULKHEADS B & C ONLY
C-C
D-D
C'-C'
CEMENT GEAR SECURELY TO C'-C'
B-B
E-E
LINE UP STRINGER
F-F
G-G
H-H
I-I
POSITION OF DIRECTION FINDER LOOP
STRINGER POSITIONS

FUSELAGE BULKHEADS

CUT 2 OF EACH BULKHEAD HALVE FROM 1/16 STIFF SHEET BALSA — CEMENT HALVES ON KEEL AND BUILD UP OTHER FUSELAGE HALF