

POD CONSTRUCTION IS PRETTY STRAIGHT FORWARD AND IS ZAIC ALL THE WAY. CARE AND PATIENCE WILL PAY DIVIDENDS IN THE END SO TAKE YOUR TIME AND ENJOY THE SHAPING PROCESS. BEST TO USE ALIPHATIC RESIN (CARPENTER'S GLUE) FOR THIS PROCESS. IT TAKES LONGER TO DRY, BUT WILL NOT LEAVE ROCK HARD LAYERS BETWEEN THE BLOCKS.

WING NOTES:

THE WING IS A STRAIGHT FORWARD BUILD BUT, THE SPAR IS A Balsa AND CARBON FIBRE LAMINATE. THE INBOARD SPAR IS 2 LENGTHS OF 1/8" SQ. HARD Balsa WITH .05 X .125 CARBON SANDWICHED IN BETWEEN.

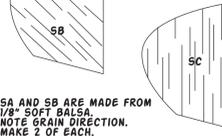
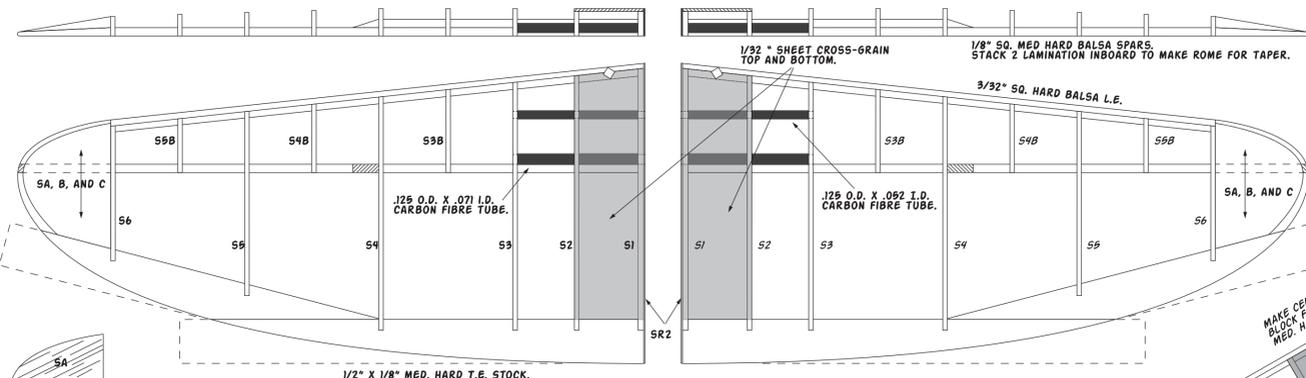
THE OUTBOARD SPARS ARE MORE OF A HYBRID. THE BOTTOM SPAR IS MADE FROM 2 LENGTHS OF 1/16" X 1/8" MED. HARD Balsa WITH .05 X .125 CARBON FIBRE SANDWICHED ALONG THE VERTICAL PLANE BETWEEN THEM. THE INBOARD 1/3 IS CAPPED WITH LENGTH OF 1/8" SQ. MED. HARD Balsa.

THE T.E. IS 1/2" X 1/8" MED. HARD T.E. STOCK.

THE TIP DIHEDRAL JOINTS ARE ANGLED AT 4° AND THE CENTRE DIHEDRAL JOINTS ARE ANGLED AT 7°.

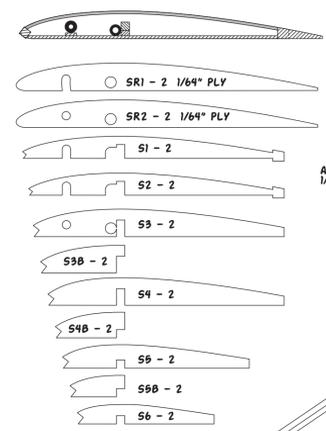
ALL GUSSET ARE 1/8" SHT. SCRAP.

WING HOLD DOWN HARDWARE ARE 3/8" ALUMINIUM SCREW POSTS. PART #3702LU MADE BY SERVALITE.

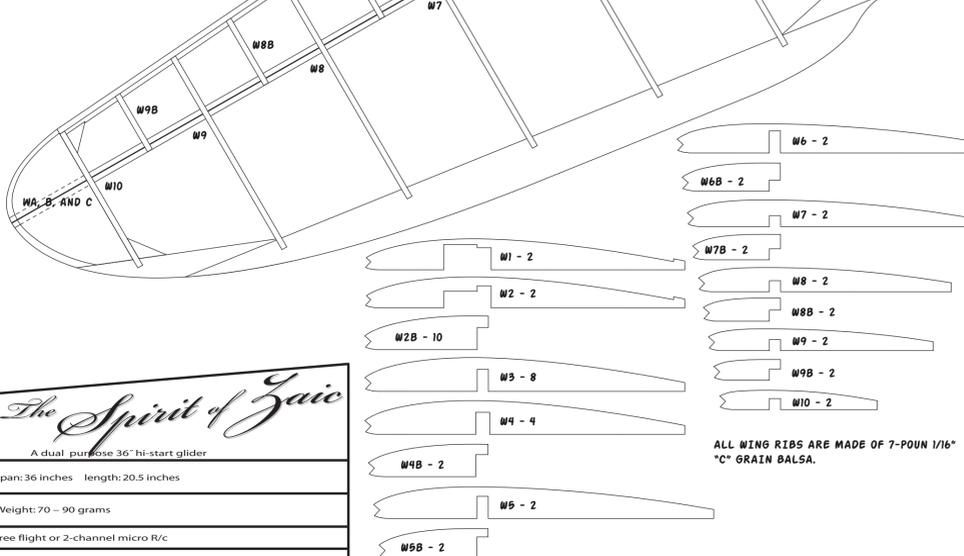


SA AND SB ARE MADE FROM 1/8" SOFT Balsa. NOTE GRAIN DIRECTION. MAKE 2 OF EACH.

SC IS MADE FROM 1/8" SOFT Balsa. NOTE GRAIN DIRECTION. MAKE 2.



ALL TAIL PLANE RIBS MADE FROM 1/20" 7 POUND "C" GRAIN Balsa.



ALL WING RIBS ARE MADE OF 7-POUND 1/16" "C" GRAIN Balsa.

MAKE CENTRE MOUNT BLOCK FROM 3/8" X 1/4" MED. HARD Balsa.

OUTBOARD DIHEDRAL BRACES. MAKE 4 FROM 1/64" PLY.

CENTRE DIHEDRAL BRACE MAKE 1 FROM 1/32" PLY.

SERVALITE 3/8" ALUMINIUM SCREW POST NUT PLATE.

HATCH PLUG IS MADE FROM 1/8" MED. Balsa. MAKE FOR SNUG FIT.

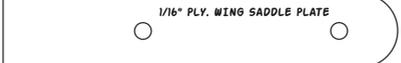
MAKE CENTRE MOUNT BLOCK FROM 3/8" X 1/4" MED. HARD Balsa.

SERVALITE 3/8" ALUMINIUM SCREW POST NUT PLATE.

SERVALITE 3/8" ALUMINIUM SCREW POST NUT PLATE.

FILLET SAND AROUND THE WING SADDLE PLATE TO FINISH.

ADJUST WING HOLD DOWN BOLT UNTIL WING IS SNUG. SECURE WITH REAR MOUNT SCREW.



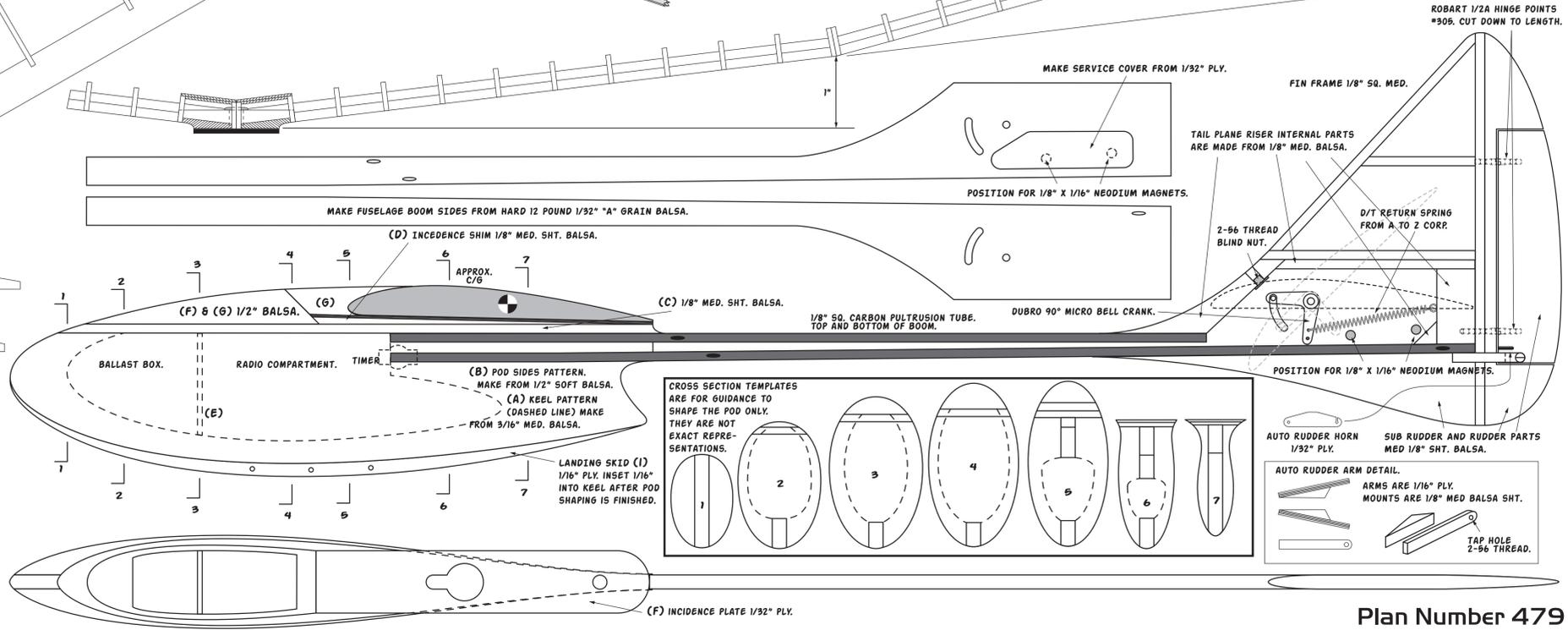
WING CENTRE SECTION CONSTRUCTION.

THE IDEA IS TO BUILD A FLAT CENTRE SECTION FOR THE WING THE FIND PURCHASE ON THE FUSELAGE.

AFTER CEMENTING THE CENTRE MOUNT BLOCK AND THE CENTRE DIHEDRAL BRACE IN PLACE, FILL THE FRONT AND REAR OF THE FIRST RIB BAYS WITH SOFT 3/16" Balsa SHEET.

THE BOTTOM WILL BE PEAKED IN THE CENTRE. SAND THE CENTRE FLAT AND FLUSH TO THE CENTRE MOUNT BLOCK.

EPOXY THE 1/16" PLY CENTRE WING SADDLE PLATE INTO POSITION. WHEN DRY, BLOCK SAND THE SADDLE PLATE TO INSURE IT IS FLAT.



MAKE FUSELAGE BOOM SIDES FROM HARD 12 POUND 1/32" "A" GRAIN Balsa.

(D) INCIDENCE SHIM 1/8" MED. SHT. Balsa.

(F) & (G) 1/2" Balsa.

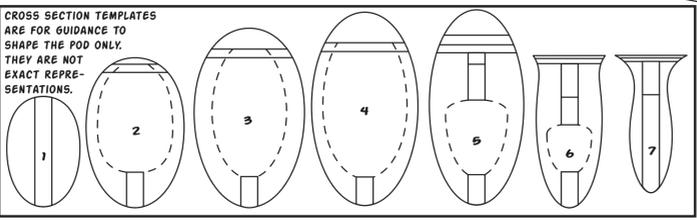
(C) 1/8" MED. SHT. Balsa.

1/8" SQ. CARBON PULTRUSION TUBE. TOP AND BOTTOM OF BOOM.

(B) POD SIDES PATTERN. MAKE FROM 1/2" SOFT Balsa.

(A) KEEL PATTERN (DASHED LINE) MAKE FROM 3/16" MED. Balsa.

LANDING SKID (I) 1/16" PLY. INSET 1/16" INTO KEEL AFTER POD SHAPING IS FINISHED.



CROSS SECTION TEMPLATES ARE FOR GUIDANCE TO SHAPE THE POD ONLY. THEY ARE NOT EXACT REPRESENTATIONS.

MAKE SERVICE COVER FROM 1/32" PLY.

FIN FRAME 1/8" SQ. MED.

TAIL PLANE RISER INTERNAL PARTS ARE MADE FROM 1/8" MED. Balsa.

D/T RETURN SPRING FROM A TO Z CORR.

2-56 THREAD BLIND NUT.

POSITION FOR 1/8" X 1/16" NEODIUM MAGNETS.

AUTO RUDDER HORN 1/32" PLY.

SUB RUDDER AND RUDDER PARTS MED 1/8" SHT. Balsa.

AUTO RUDDER ARM DETAIL.

ARMS ARE 1/16" PLY. MOUNTS ARE 1/8" MED Balsa SHT.

TAP HOLE 2-56 THREAD.

ROBERT 1/2A HINGE POINTS #505. CUT DOWN TO LENGTH.

The Spirit of Zaic
 A dual purpose 36" hi-start glider
 span: 36 inches length: 20.5 inches
 Weight: 70 - 90 grams
 free flight or 2-channel micro f/c
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