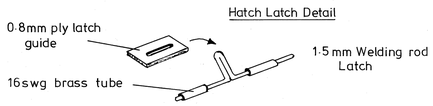
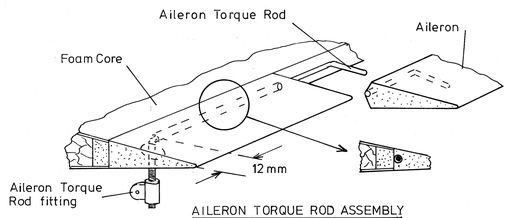
TOLEDO

Designed by Stan Yeo

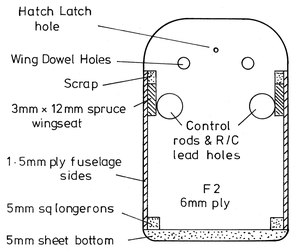
1570mm span Semi-Aerobatic Slope Soarer

All wood balsa unless otherwise stated





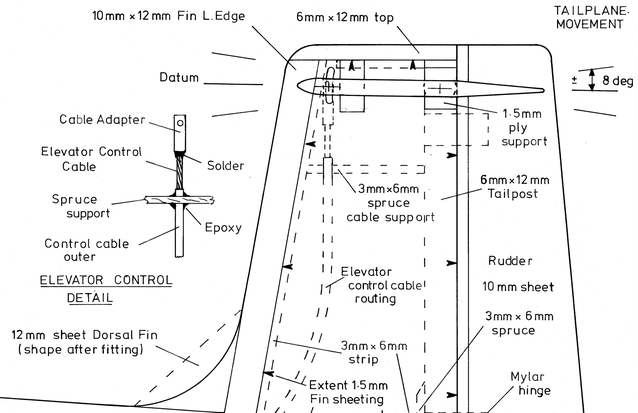
AILERON TORQUE ROD ASSEMBLY

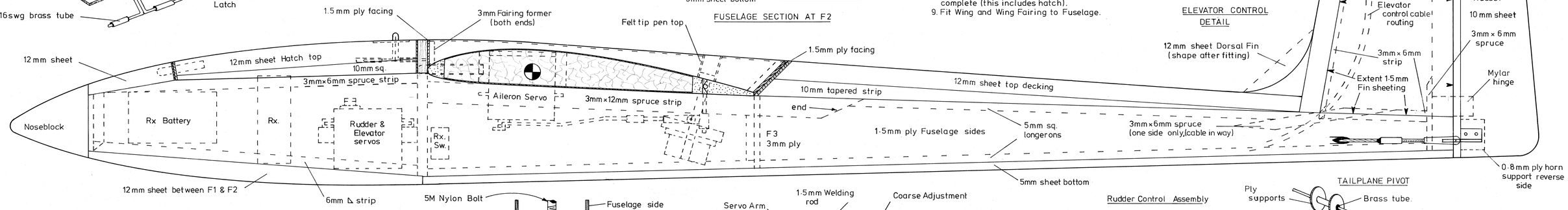


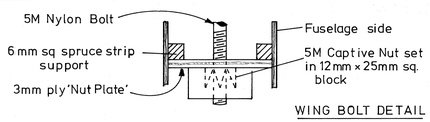
FUSELAGE SECTION AT F2

FUSELAGE BUILDING NOTES

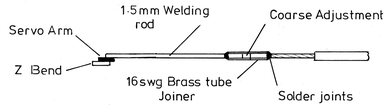
1. Glue strip frame to fuselage sides ensuring there is a Left & Right side.
2. Position Right-hand fuselage side over plan and construct Fin shell.
3. Fit Elevator control cable assembly.
4. Join fuselage sides at Fin base. Note: Fuselage is parallel in this area.
5. Position fuselage sides over plan view of fuselage and fit F3, F2 and then F1 ensuring fuselage is straight and square.
6. Add fuselage top decking, fin leading edge and dorsal fin.
7. Fit Rudder control cable, fuselage bottom and shape rear of fuselage.
8. Construct nose section by building as blocks and shaping when construction is complete (this includes hatch).
9. Fit Wing and Wing Fairing to Fuselage.



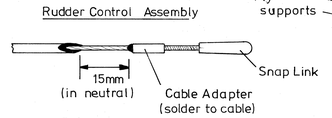


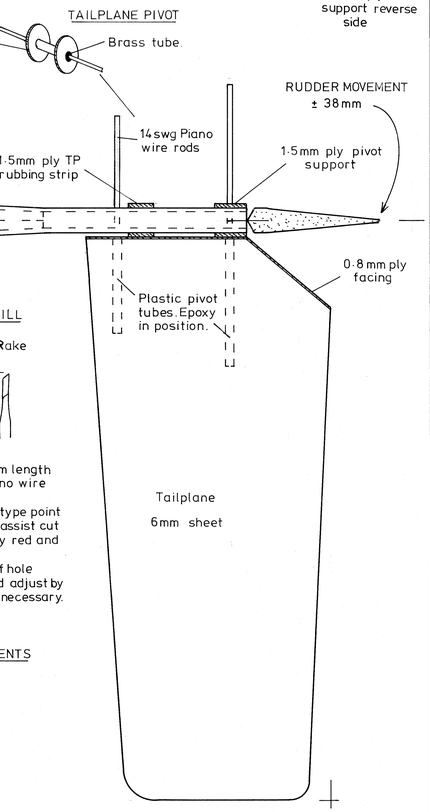


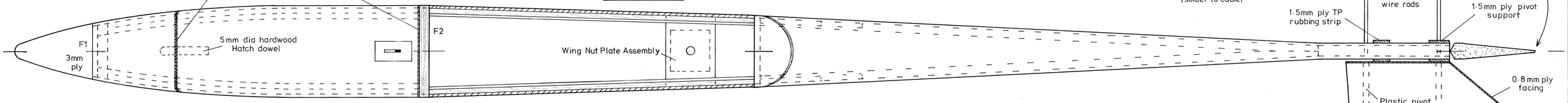
WING BOLT DETAIL



CONTROL CABLE CONNECTIONS





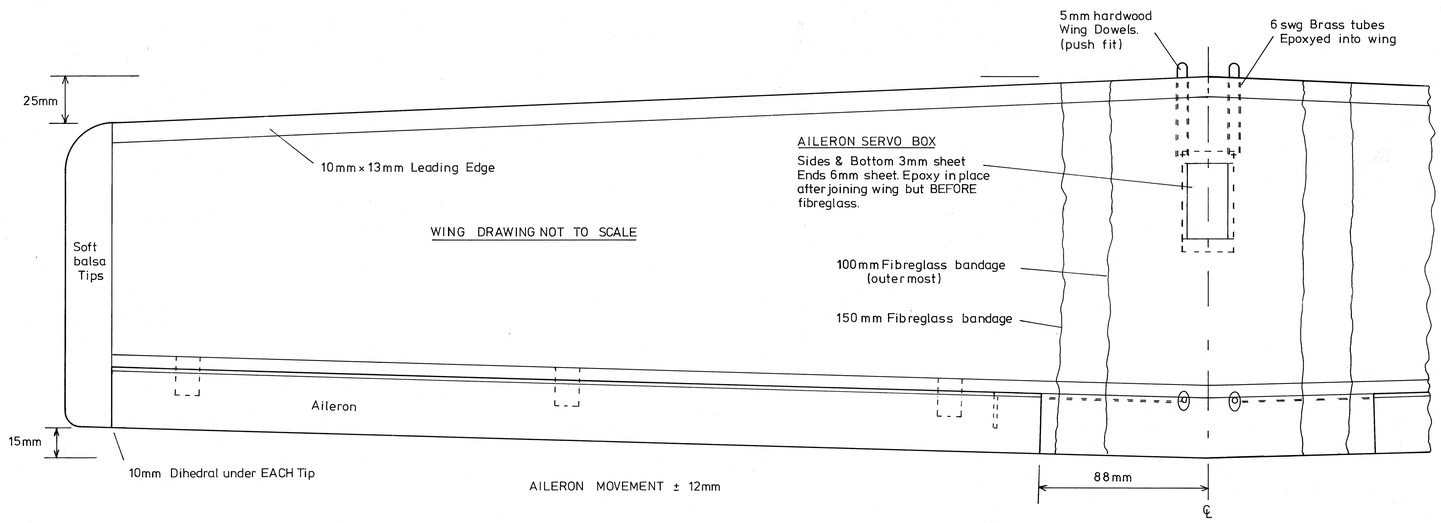


WING BUILDING NOTES

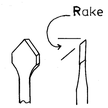
1. Sand wing leading edges to provide a good gluing area and attach L.E. using Epoxy using Masking tape to hold L.E. in position.
2. Sand L.E. to shape using a 180 grit Wet & Dry sanding block.
3. Fit Aileron torque rods to T.Edge centre section and Epoxy to wings. Grease torque rod to prevent sticking.
4. Sand T.E. to shape and join wings using Epoxy.
5. Construct aileron servo box in wing and Epoxy in position. Check wing joint is sealed with Epoxy to prevent polyester resin damage.
6. Support wing vertically on trailing edge and attach fibreglass bandages using Polyester resin. Extend resin 12mm beyond bandage.
7. Sand wing bandage using 80 grit Wet & Dry taking care not to sand veneer. Add Tips.

WING DOWEL HOLE DRILLING

1. Fit finished wing, less Fairing, securely to fuselage and mark wing dowel hole centres on the front face of F2.
2. Using the piano wire drill, drill dowel holes through both F2 and Wing L.E. Use wing dowel to hold wing in position for 2nd hole.
3. Fit 6swg brass tubes to wing (back to Aileron servo box) and epoxy in position.



WING DOWEL DRILL



1. Heat end of 450mm length of 8swg (4mm) piano wire and flatten end.
2. Shape to spear type point & grind in rake to assist cut
3. Heat tip to cherry red and quench in water.
4. Check diameter of hole drilled by drill and adjust by grinding sides as necessary.

IMPERIAL EQUIVALENTS

0·8mm = 1/32 in
1·5mm = 1/16 in
3·0mm = 1/8 in
5.0mm = 3/16 in
6·0mm = 1/4 in
10 mm = 3/8 in
12 mm = 1/2 in