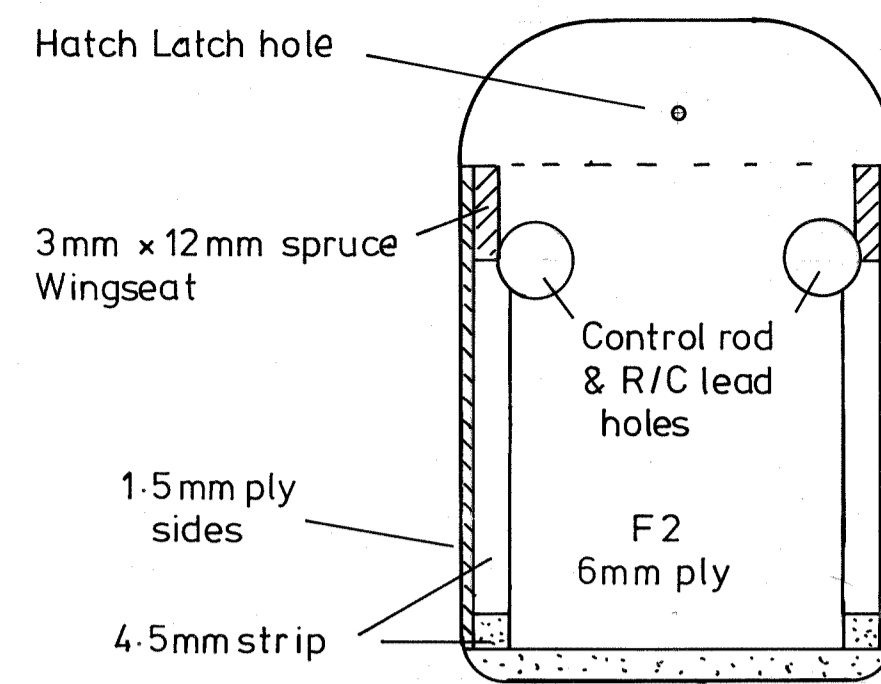
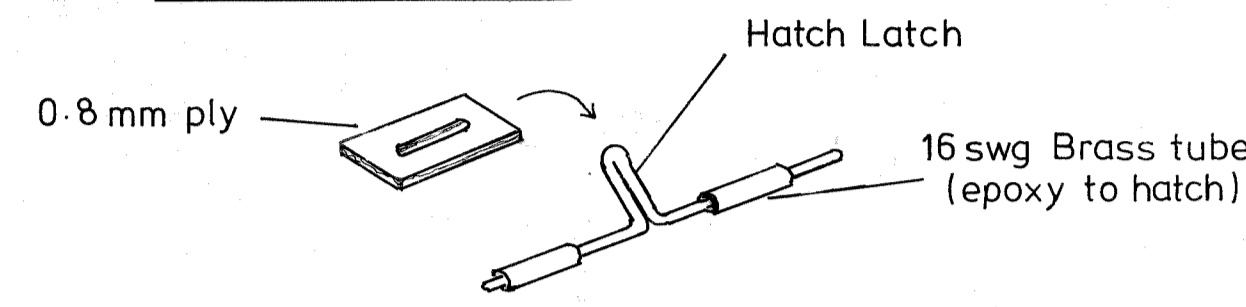


STAGE 2

Designed by Stan Yeo
1570mm span Rudder/Aileron Trainer

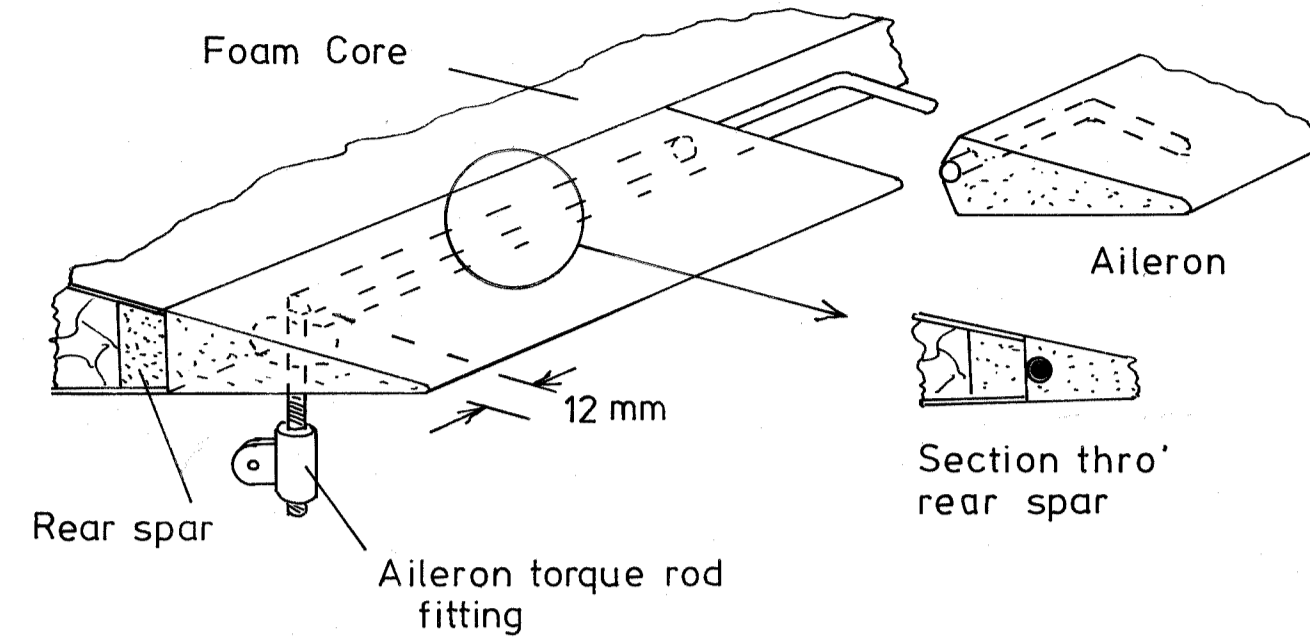
All wood balsa unless otherwise stated

HATCH LATCH DETAIL



SECTION THRO' F2

AILERON WING - Centre section detail

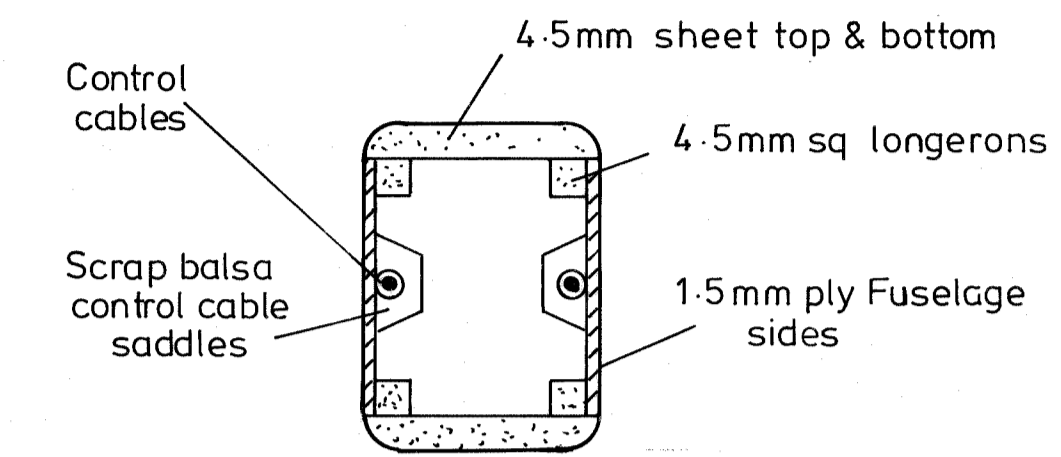


FUSELAGE BUILDING NOTES

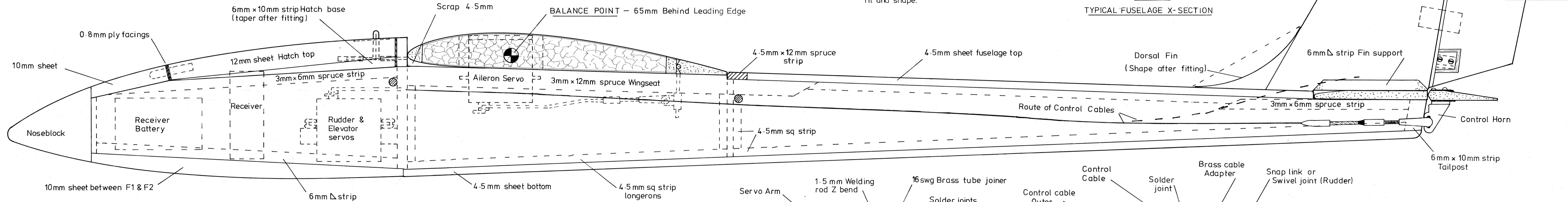
1. Lightly sand fuselage sides to remove release agent.
2. Mark position of formers on fuselage sides. Check you have a LEFT & RIGHT side!!!
3. Fit strip superstructure to sides using PVA.
4. Using plan view of fuselage fit F2 & F3. Check straightness/squareness of fuselage.
5. When glue is set fit F1 & spruce T.E. stop and add 4.5mm top sheeting.
6. Remove fuselage from plan and fit bottom sheet between F1 & F2. Also sheet behind noseblock.
7. Fit control cable outers. Support every 100mm with scrap balsa saddles.
8. Fuselage bottom and Noseblock.
9. Fit Hatch with 0.8mm ply ends. Allow one thickness of ply clearance for thickness of covering. (jam ply in front of hatch whilst glue sets)
10. Shape front of fuselage before removing Hatch for finishing.
11. Finish hatch. Fit wing dowels and finish shaping fuselage. Fill in tailset with 4.5mm scrap.
12. Fit Tailplane complete with Fin. Add Dorsal fit and shape.

CONTROL MOVEMENT & RIGGING DATA

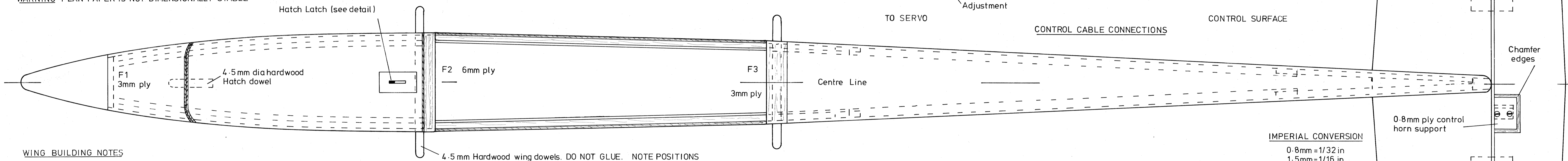
- Ailerons ± 10mm
- Elevator ± 10mm
- Rudder ± Max Possible
- Tailplane Incidence 0 deg
- Wing Incidence 1.0 deg. (wing bottom)
- Balance Point 65mm from Leading Edge
- Dihedral: Rudder/Elevator only 110mm under each Tip With Ailerons 10mm under each Tip



TYPICAL FUSELAGE X-SECTION



WARNING PLAN PAPER IS NOT DIMENSIONALLY STABLE



WING BUILDING NOTES

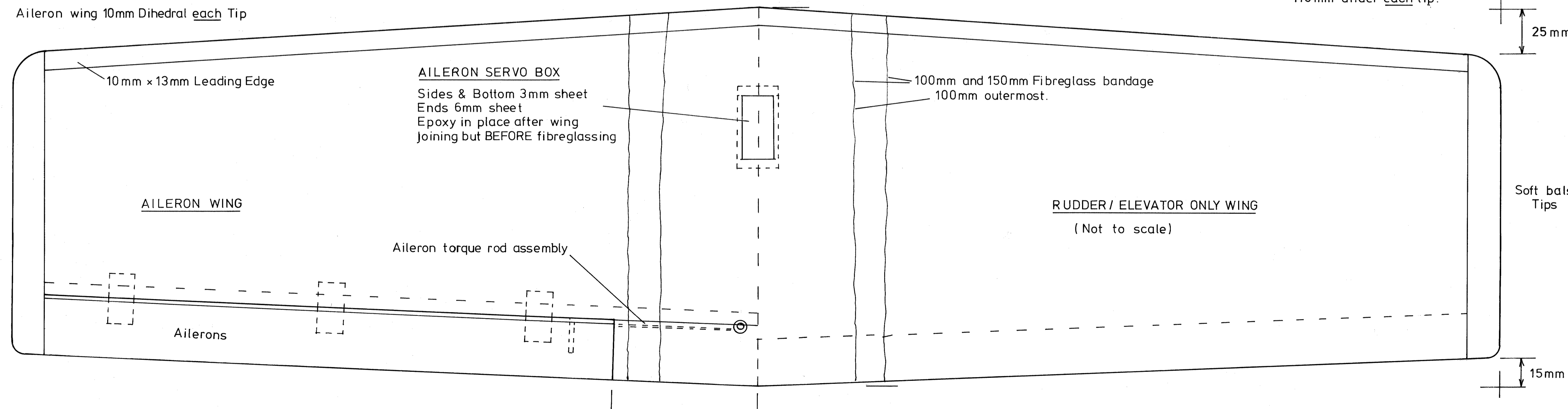
1. Fit Leading Edge (L.E) using epoxy. Use Masking Tape to hold L.E. in place.
2. Sand L.E. to shape using 180 grade Wet & Dry.
3. Fit and sand Wing tips as above.

AILERON WING ONLY

1. Fit centre-section Trailing Edge (T.E) (see diagram). Grease Torque Rods before fitting to prevent sticking.
2. Sand to shape observing wing section.
3. Hinge Ailerons
4. Sand wing root angle to give correct dihedral
5. Join wings using epoxy ensuring joint is sealed
6. Support wing on T.E. and drape fibreglass bandage over L.E. Reinforce top of T.E with single layer of surplus fibreglass cloth.
7. Add extra Hardener to fibreglass resin to ensure resin goes off before attacking foam core.
8. Sand fibreglass smooth using 60 grade Wet & Dry and Orbital Sander. BE CAREFUL

* RECOMMENDED ADHESIVES

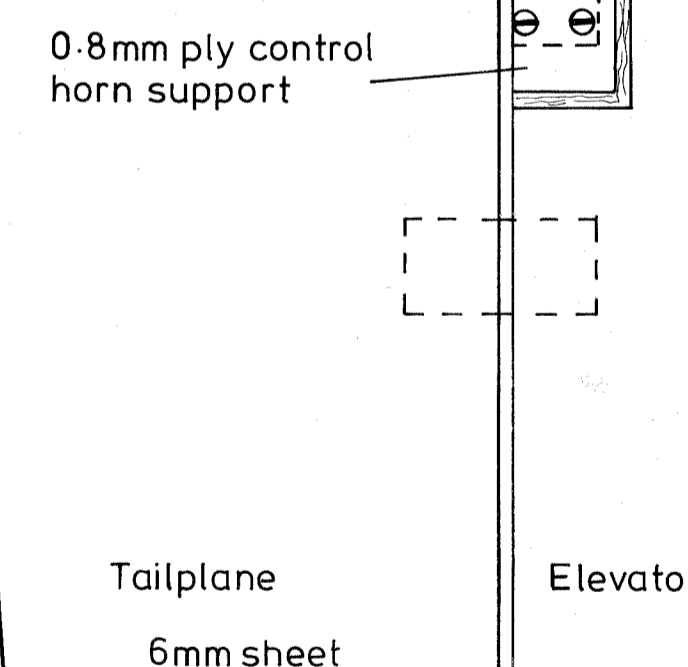
- Balsa to Balsa, Spruce & Ply - Resin W (PVA)
- Balsa to Foam Core - Epoxy (Araldite)
- Fibreglass Bandage - Polyester (Fibreglass) Resin.
- Mylar Hinges - Epoxy (after covering)



IMPERIAL CONVERSION

- 0.8mm = 1/32 in
- 1.5mm = 1/16 in
- 3.0mm = 1/8 in
- 4.5mm = 3/16 in
- 6.0mm = 1/4 in
- 10.0mm = 3/8 in
- 12.0mm = 1/2 in

Dihedral: Rudder/Elevator ONLY
110mm under each tip.



REVISIONS
Drawn 22.6.93