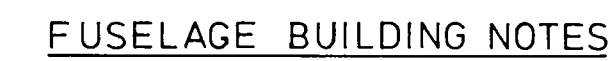
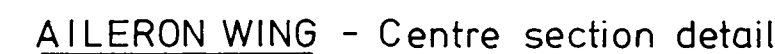


STAGE 2

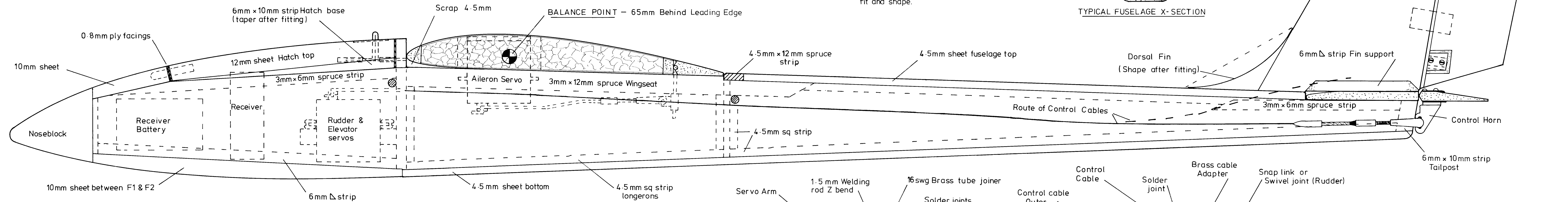
Designed by Stan Yeo
1570mm span Rudder/Aileron Trainer

All wood balsa unless otherwise stated

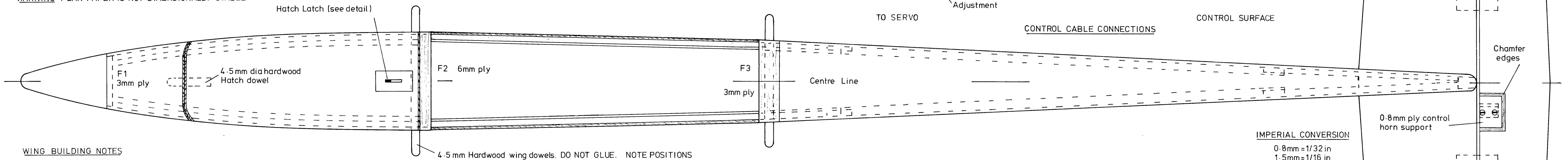
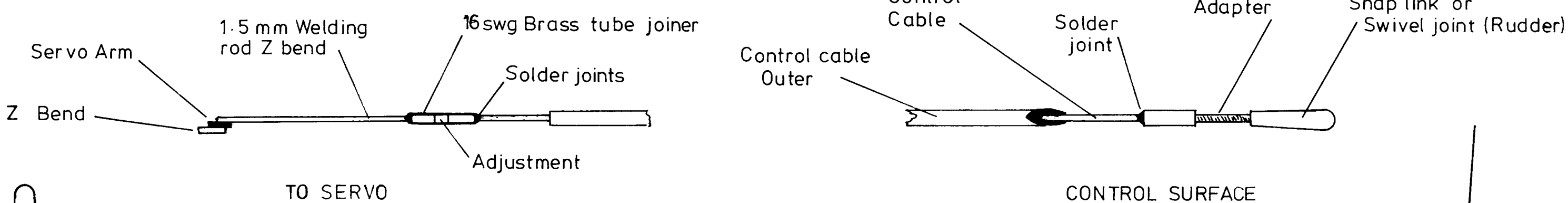


1. Lightly sand fuselage sides to remove release agent.
2. Mark position of formers on fuselage sides.
Check you have a LEFT & RIGHT side!!!
3. Fit strip superstrate to sides using PVA.
4. Using plan view of fuselage fit F2 & F3. Check straightness/squareness of fuselage.
5. When glue is set fit F1 & 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 outlets. 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.

Ailerons $\pm$ 10mm
 Elevator $\pm$ 10 mm
 Rudder $\pm$ 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



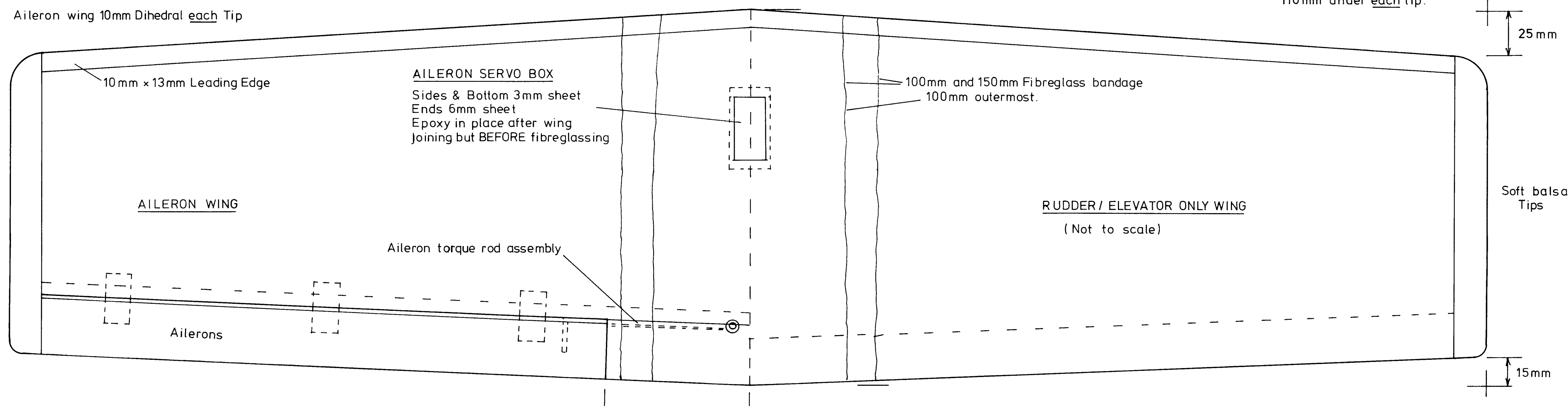
WARNING PLAN PAPER IS NOT DIMENSIONALLY STABLE



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.

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 60grade Wet & Dry and Orbital Sander. BE CAREFUL

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



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
110 mm under each tip.

Soft balsa Tips

Shape Tail surfaces
after fitting

0.8mm ply control
horn support

Elevator

Tailplane
6mm sheet

REVISIONS
Drawn 22.6 93