

# Ab Initio Mk 2

Designed by Stan Yeo  
1450mm span Basic Slope Trainer

All wood balsa unless otherwise stated

## BUILDING NOTES

### FUSELAGE

1. Fit 0.8mm ply doublers using contact adhesive i.e. Evostick. Ensure there is a LEFT & RIGHT side.
2. Build 4.8mm structure onto sides.
3. Glue F2 & F3 in position using PVA. Check SQUARE and join sides.
4. Add 3mm undersheeting between F2 & F3.
5. Fit F1 and join tailpost ensuring fuselage is not bowed. Add top & bottom sheeting (crossgrain)
6. Construct hatch frame using fuselage as a jig. Fit hardwood dowel before adding sheeting.
7. Fit tailplane seat and add 0.8mm nose-skid (use a contact adhesive i.e. Evostick)

### TAILPLANE & FIN

1. Fit 6mm Δ fin supports, ensuring fin is perpendicular when placed on the tailplane.
2. Fit tips and draw TP centreline at Right Angles to elevator hinge line. Glue fin 'square' to tailplane.
3. Fit TP to fuse ensuring that it is square & straight.

### WINGS

1. Fit Leading Edge using PVA or Epoxy. Hold in place with masking tape until glue set.
2. Fit wing tips and sand leading edge to shape using 180 grade Wet & Dry paper (it is used on cars)
3. Set wing root angles to give 85-90mm under EACH tip.
4. Join wing using Epoxy. Seal joint thoroughly to prevent fibreglass resin attacking foam core.
5. Support the wing on its trailing edge and drape the fibreglass bandages over the leading edge. Use surplus cloth to reinforce nose section.
6. When mixing fibreglass resin add approximately 30-50% more hardener than recommended to ensure resin 'goes off' before it can attack the 'core'

### RECOMMENDED ADHESIVES

Balsa to Balsa wood/Ply formers - Resin W (PVA)  
Balsa to Ply Doublers - Evostick (Contact Adhesive)  
Balsa to Foam Core - Epoxy (Araldite)  
Fibreglass Bandage - Polyester (Fibreglass) Resin

