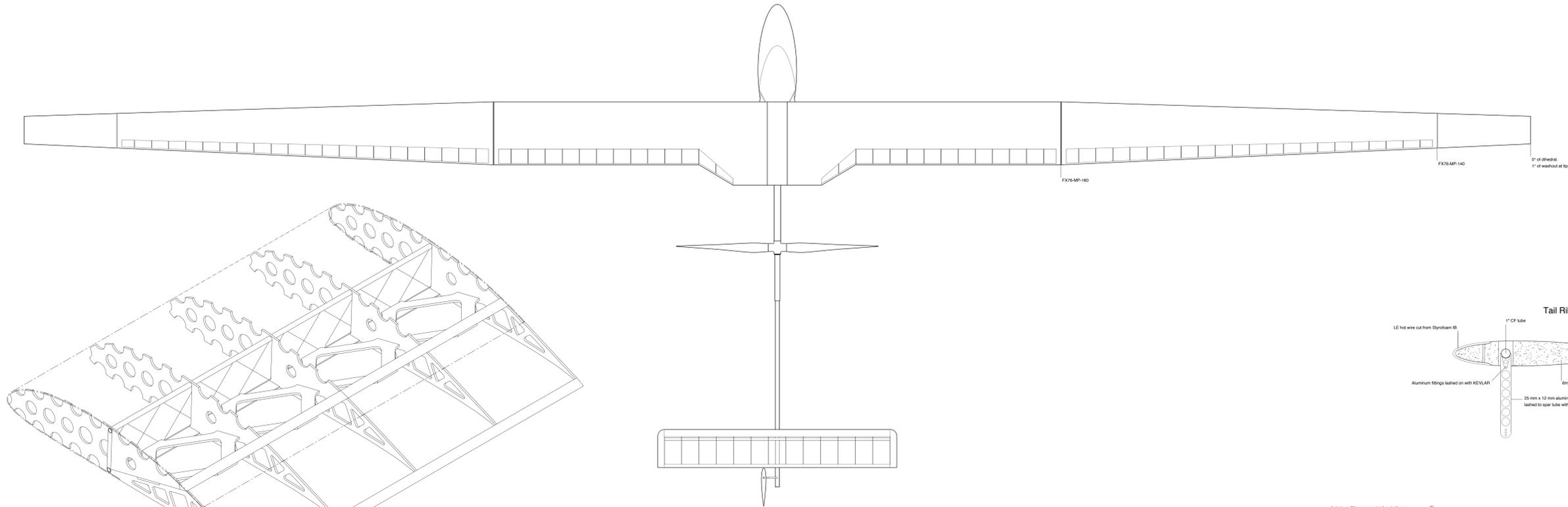


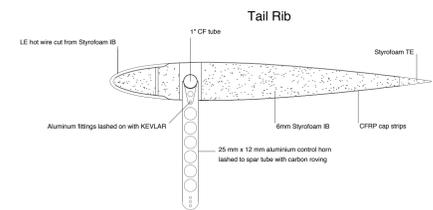
Designed by John Edgley

span: 22.95 m
 wing area: 16.9 m²
 aspect ratio: 32
 empty weight: 37 kg
 design speed: 9 - 10 m/s
 design power: 370 W
 wing inner panel airfoil: FX76-MP-160
 wing tip airfoil: FX76-MP-140
 stabiliser airfoil: FX76-MP-100
 rudder airfoil: WF76-100-MP
 prop airfoil: FX 60-100
 prop diameter: 2.9 m
 prop speed: 180 rpm

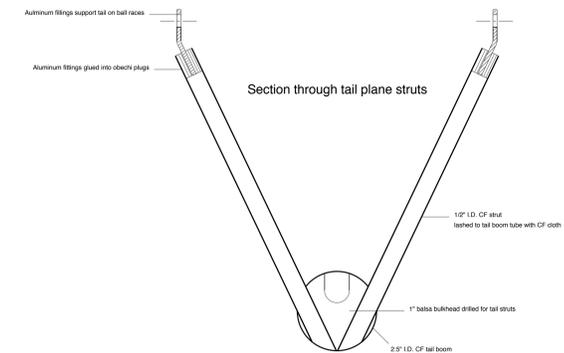


Drawing of the wing structure

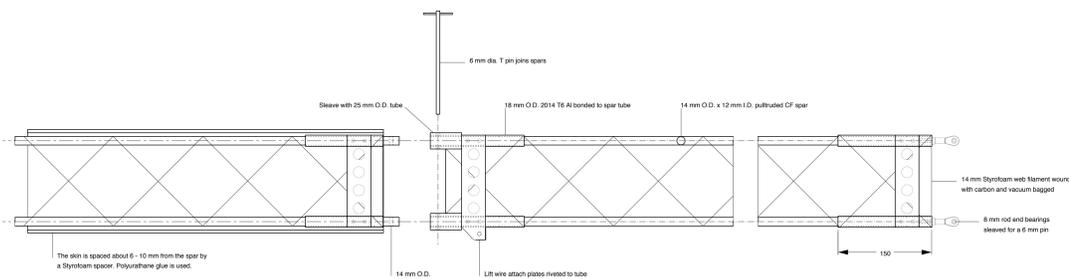
The spar web is styrofoam with carbon fibre shear bracing.
 The D box is closed with styrofoam 'x' bracing with carbon fibre tow in epoxy wet laid up on the lower surface.
 The foam / CF 'x' bracing extends out 8 bays in the tip panel.
 The inboard panels use the Worman FX76-MP-160 (16%) airfoil.
 The outboard panels taper to FX76-MP-140, (14%) at the tips.



Tail Rib

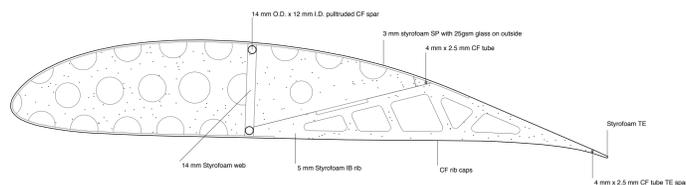


Section through tail plane struts

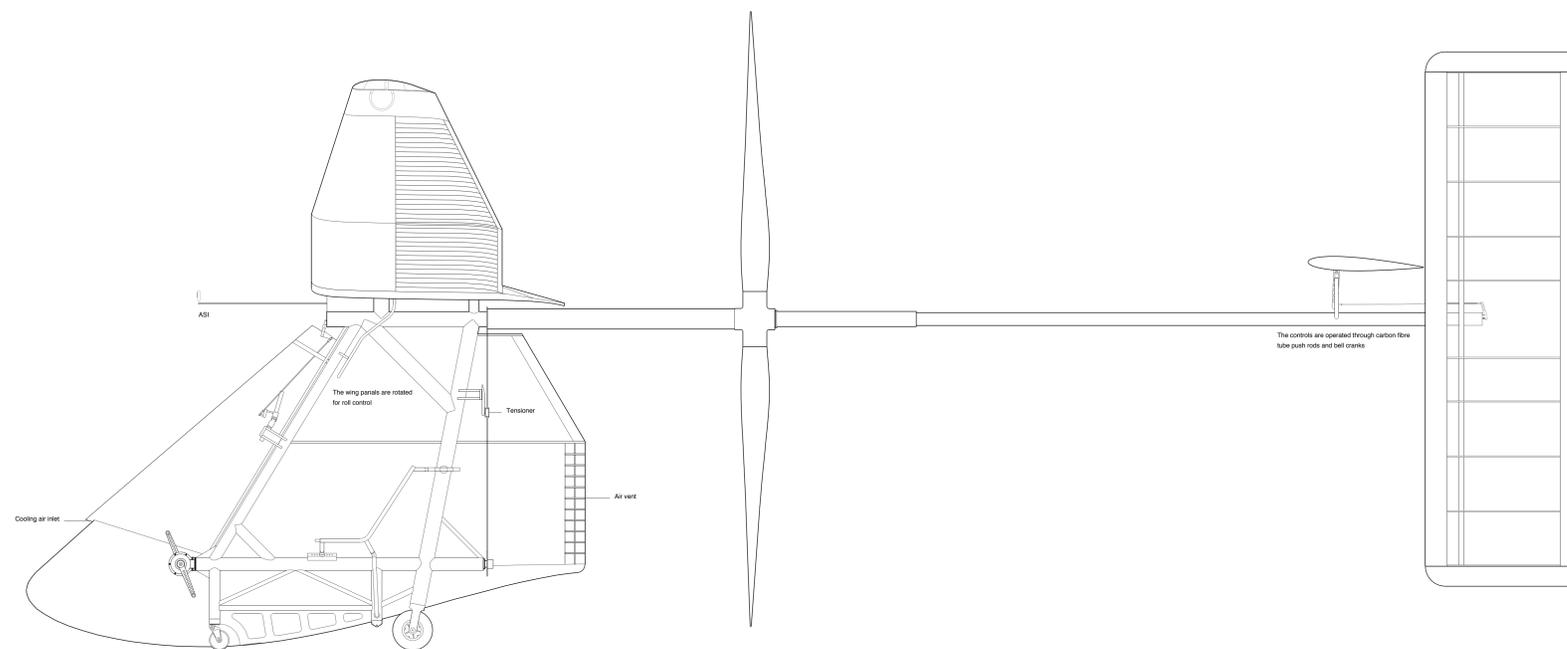


Drawing of the centre to outer panel transport joint, 1:4 scale.

The center transport joint is made using standard 8 mm steel rod end bearings (thread and bore) bushed to 6.35 mm. The main pins are 6.35 mm diameter. The rod end bearings are adjustable so the dihedral can be changed.

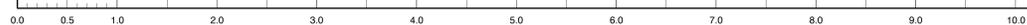


Wing Rib 1:4 scale



Side view showing internal structure. Scale: 1:12.5

Scale in m - 1:25



Aerocycle 3 Human Powered Aircraft