

A 65" span semi-scale 2-seat lightplane based on the 36" span free-flight kit designed for



Enlarged and slightly modified design by
Jeremy Collins for 3541 electric motor
and 3-function R/C

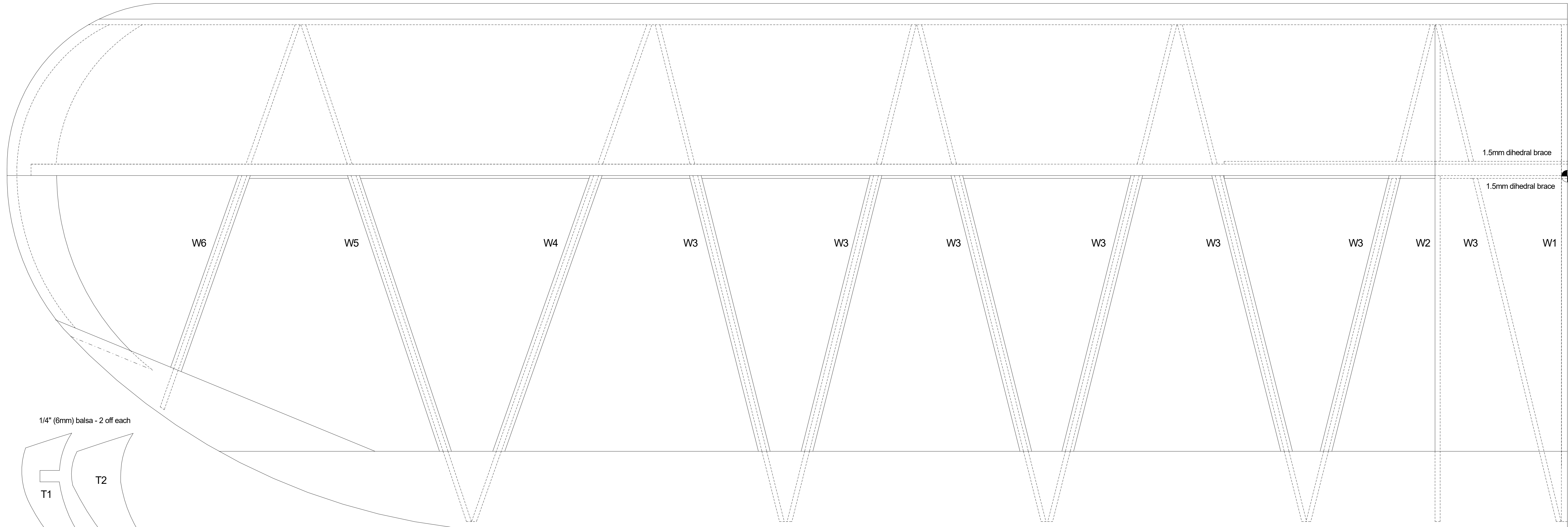
Wing Construction

Commence construction with port wing half.

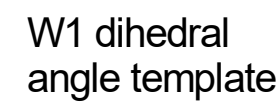
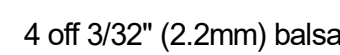
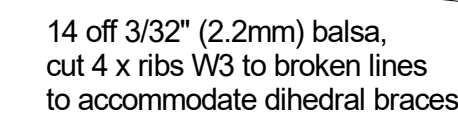
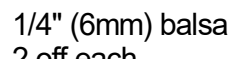
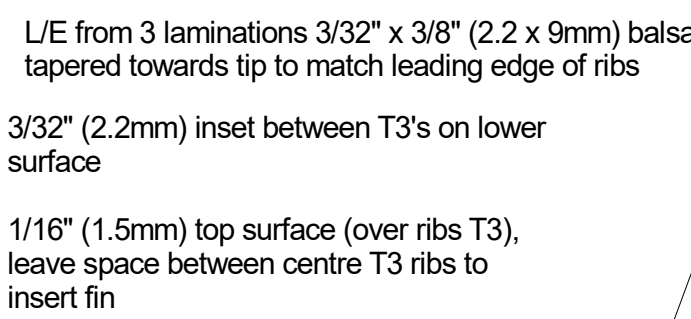
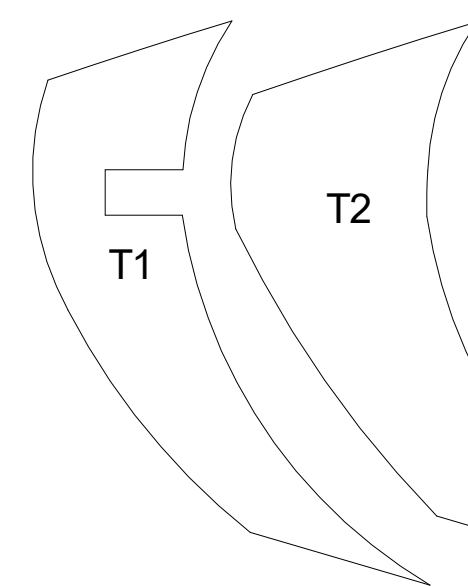
Pin down lower sheeling, capstrops and trailing edge. Glue lower spar in place. Glue dorsal braces in place each side of lower spar. Add ribs (noting angle of W1 to match dihedral angle) and false leading edge. Add upper spar, cracking at W5 position (see tip section detail sketch). Glue in place wingtip pieces W7 and W8. Add trailing edge sheeling, rebating the rear of W8 to match trailing edge sheeling. Add inter-rib webs. Now add dorsal brace sheeling, glue in place, centre-section sheeling and capstrops. Trim leading-edge sheeling back to false leading edge and add leading edge. Plane and sand leading edge and tips to section. Repeat for starboard wing, joining the port wing (propped up to dihedral angle) once the starboard lower spar has been glued in place.

Tailplane Construction

Tailplane and fin/rudder construction is straightforward apart from leading edges, which are laminated from strips of balsa. Glue the required number of strips together with aliphatic glue and while still wet pin in place, clamping laminations with clothes pegs if necessary. Allow to dry before adding remaining structure. Angled tailplane ribs are drawn slightly overlength - trim to exact size on assembly. Leading edges are later planed down to match ribs. The rudder servo is let into the upper surface of the tailplane after covering, feeding the servo lead through the bottom sheeting. Cover tailplane and fin before glueing fin in place. Elevator and rudder are hinged with 'furry' cyanoed hinges. Tailplane assembly is glued to fuselage.



1/4" (6mm) balsa - 2 off each

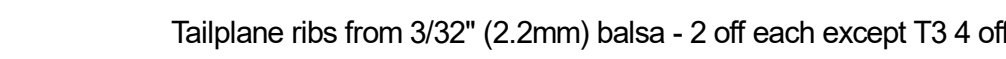
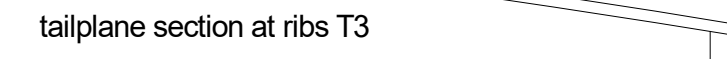
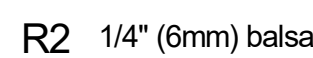


L/E laminated from 3 x
1/8" (3mm) balsa

rudder 1/4"
(6mm) balsa

- rudder is hinged
- 'furry' CA hinges

4" (6mm) balsa



Note: angled tailplane ribs drawn overlength at LE and TE; trim to fit