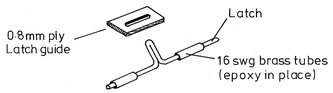
Stiletto

Designed by Stan Yeo

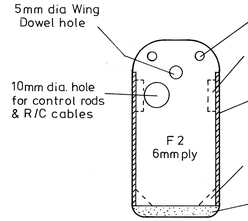
1500mm span Pylon Racer

All wood balsa unless otherwise stated

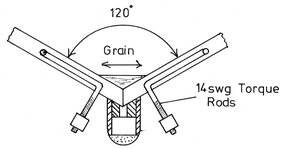


Wing Dowel Drill

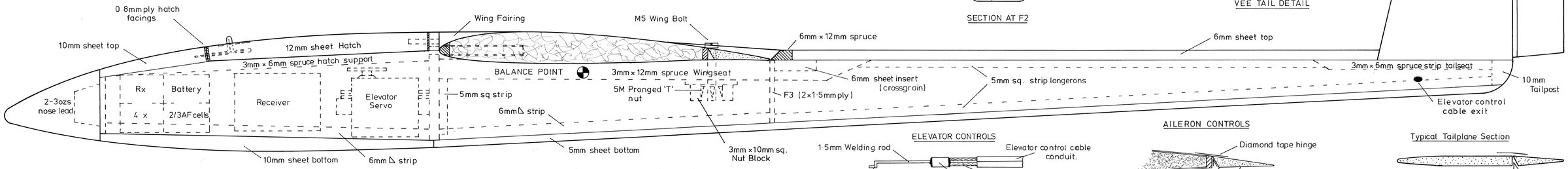
1. Heat end of 450mm length of 8swg (4mm) dia. piano wire & flatten end.
2. Shape to spear type point and grind in rake to assist cutting.
3. Heat tip to cherry red colour and quench in water.
4. Check the diameter of hole drilled by drill and adjust by grinding sides as required.



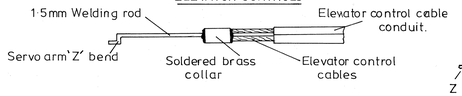
SECTION AT F2



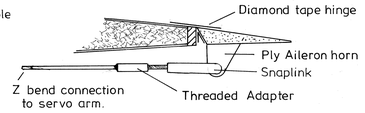
VEE TAIL DETAIL



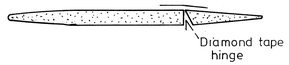
ELEVATOR CONTROLS

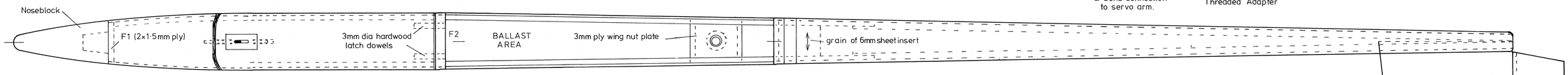


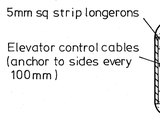
AILERON CONTROLS



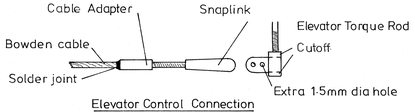
Typical Tailplane Section







Typical Fuselage Section



Elevator Control Connection

*NOTE: Check Aileron Servo bay is not already pre-cut before attempting this operation.

METRIC CONVERSION

0·8mm	1/32 inch
1·5mm	1/16
3mm	1/8
5mm	3/16
6mm	1/4
10mm	3/8
12mm	1/2
25mm	1 inch

WING BUILDING NOTES

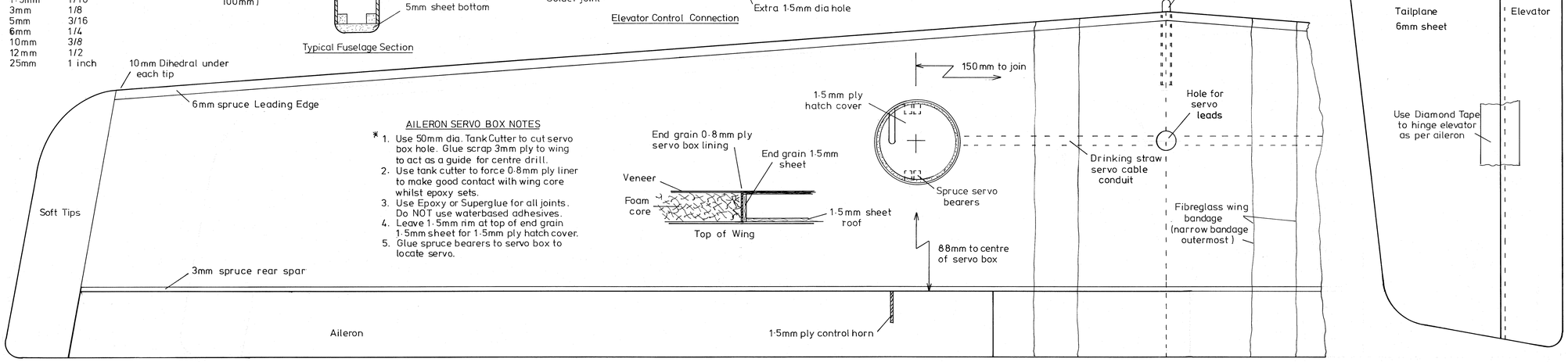
1. Sand wing leading & trailing edges smooth to provide a good gluing area.
2. Epoxy wing leading edge & rear spar in position and sand to shape.
3. Construct aileron servo boxes as per instructions.
4. Epoxy wing tips in place. Sand to shape.
5. Drill hole for servo cable conduit and fit conduit in position. Allow for cable exit!!
6. Fit centre section trailing edge and join wings.
7. Attach wing bandages using polyester / epoxy resin and sand to contour.

WING DOWEL HOLE DRILLING

1. Fit finished wing (less fairing) to the fuselage and secure in place.
2. Mark position of dowel hole on front of F2. Leave wing in position.
3. Using piano wire drill, drill wing dowel hole through both F2 and wing.
4. Enlarge hole in wing and epoxy wing dowel tube in position.

PROVISIONAL FLYING SETUP

Ailerons	20mm up 14mm down
Elevator	± 8mm
Both with exponential throw to suite	
Down flap for landing	10mm
Wing Tail Incidence	1·5 - 0 degrees
Balance Point	90mm from L.E.
Nom. Flying Weight	1000grms (2lb 2ozs)
Ballast as conditions require up to 750grms	



AILERON SERVO BOX NOTES

*1. Use 50mm dia. Tank Cutter to cut servo box hole. Glue scrap 3mm ply to wing to act as a guide for centre drill.
2. Use tank cutter to force 0·8mm ply liner to make good contact with wing core whilst epoxy sets.
3. Use Epoxy or Superglue for all joints. Do NOT use waterbased adhesives.
4. Leave 1·5mm rim at top of end grain 1·5mm sheet for 1·5mm ply hatch cover.
5. Glue spruce bearers to servo box to locate servo.

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