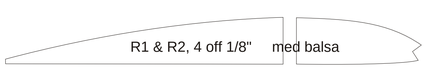
Black Magic

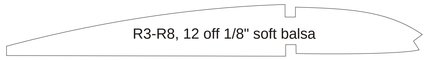
Redrawn from Fred Hempsalls
1946 design for
Electric power

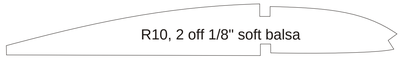
By

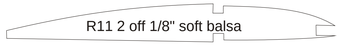
Vintage 1 April 2005

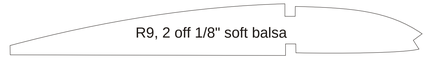
Sheet 2, wings and undercarriage



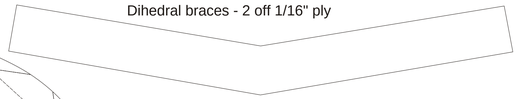


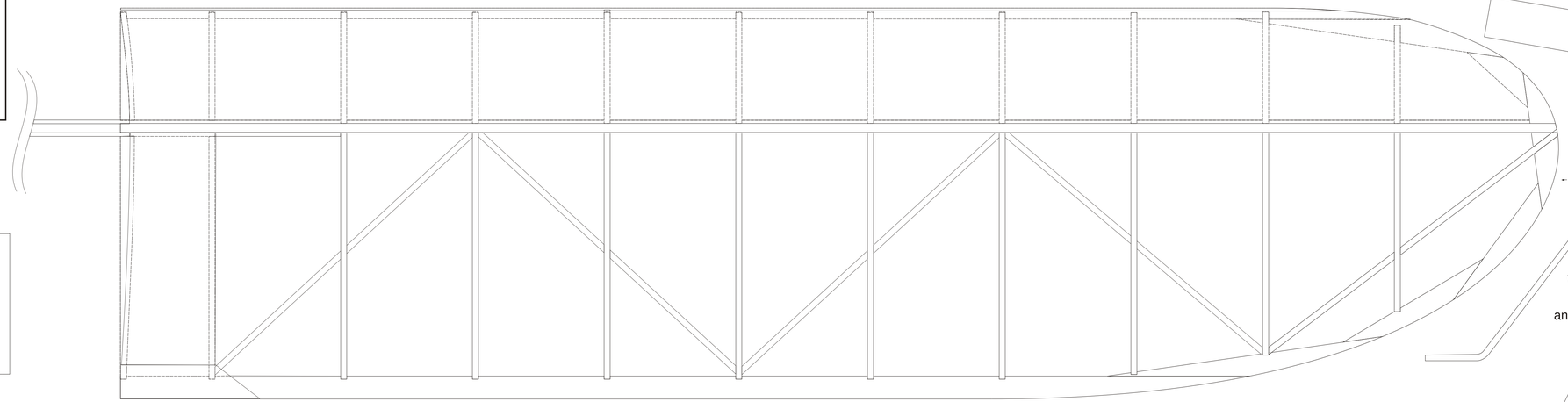




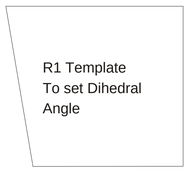


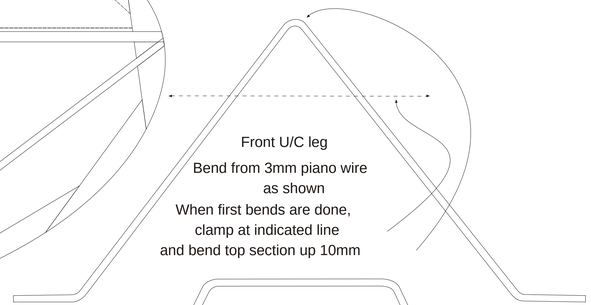
Dihedral braces - 2 off 1/16" ply





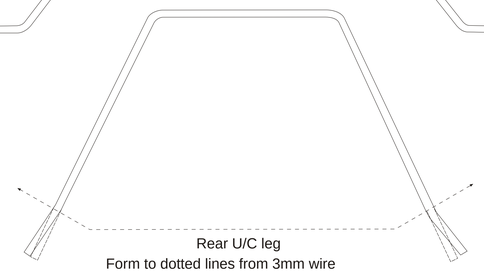
R1 Template
To set Dihedral
Angle





Front U/C leg

Bend from 3mm piano wire
as shown
When first bends are done,
clamp at indicated line
and bend top section up 10mm



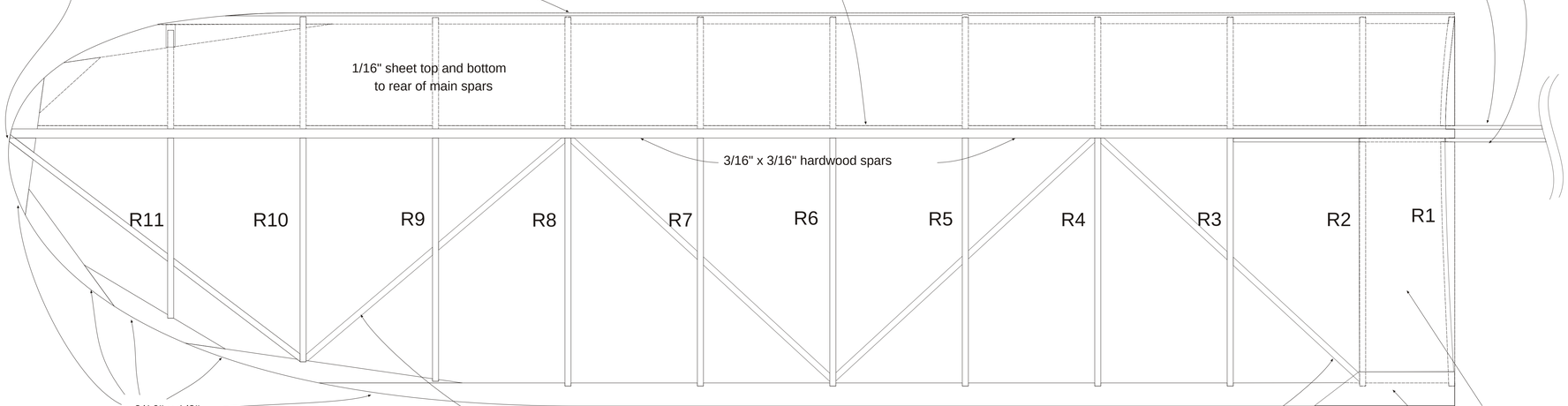
Rear U/C leg
Form to dotted lines from 3mm wire
Then bend at indicated line so tips are up 15mm
and the bend lines are angled out as shown

Dihedral 5" at each tip

1/4" x 1/4" leading edge

1/16" shear webs between ribs, grain vertical from R3, to tip

1/16" ply dihedral braces, to R3



1/8" x 1/4" diagonal bracing, cut to fit between ribs, from trailing edge to top of top spar only!

1/16" sheet, top and bottom

1/16" ply to top surface

Front U/C legs are bound and glued, to the front of F3 before assembly
Epoxy and glass cloth makes a stronger join

The rear legs are inserted through the structure, located with ply gussets
then bound with copper wire to front U/C legs, and firmly soldered

Wheels should be 70mm or 2 1/2",located with soldered washers

After assembly, the U/C may be infilled with 1/8" hard balsa
using epoxy, if desitred