FIREWORKS III

SAL-HLG

DESIGNED AND PRODUCED BY PCM
QUESTIONS, STIMULATIONS OR COMPLAINTS
TO:
info@pcm.at
www.pcm.at

WINGSPAN: 1500mm
WINGAREA: 0,23m²
WEIGHT: 260g
AIRFOIL: AG 455ct-02f -47ct-02f from Mark Drela

ATTACHMENTS
you need for building the plane

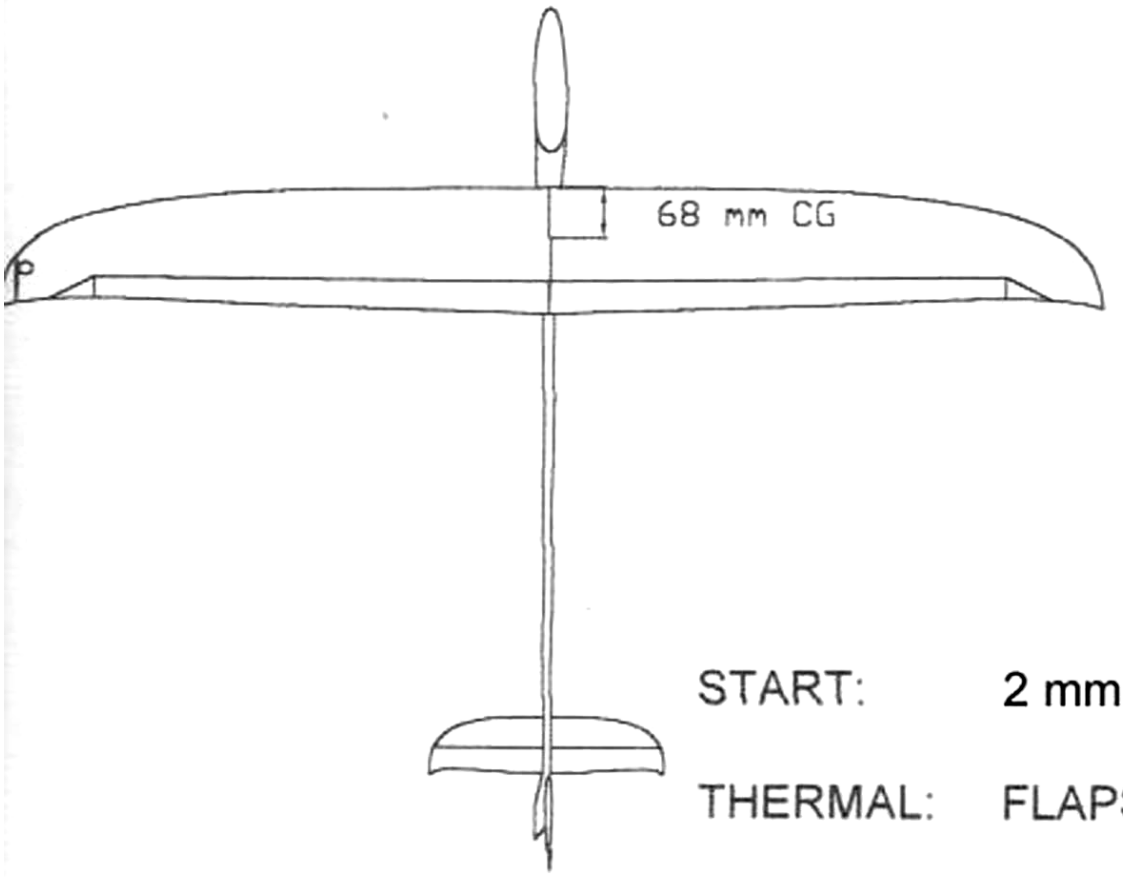
4mm BALSA VERY LIGHT (only for stabs)
0.3mm STEEL
0,5mm STEEL
1.2mm STEEL
1.5mm CARBON
ORACOVER LIGHT (only for balsa stabs)
2 SCREWS
ADHESSIVE TAPE

RECEIVER: C 12 (GRAUPNER)
MICRO 6 (ACT)
PICO (MULTIPLEX)
NANO 6 (BECKER)
(all without box)
Jeti Rex5

SERVOS: Dymond D54 L/B/H 20/8/17,6
or Dymond D47

AKKUS: NiMh 250-380mA/h
NI-CD 50-110mA/h

ADJUSTMENTS:

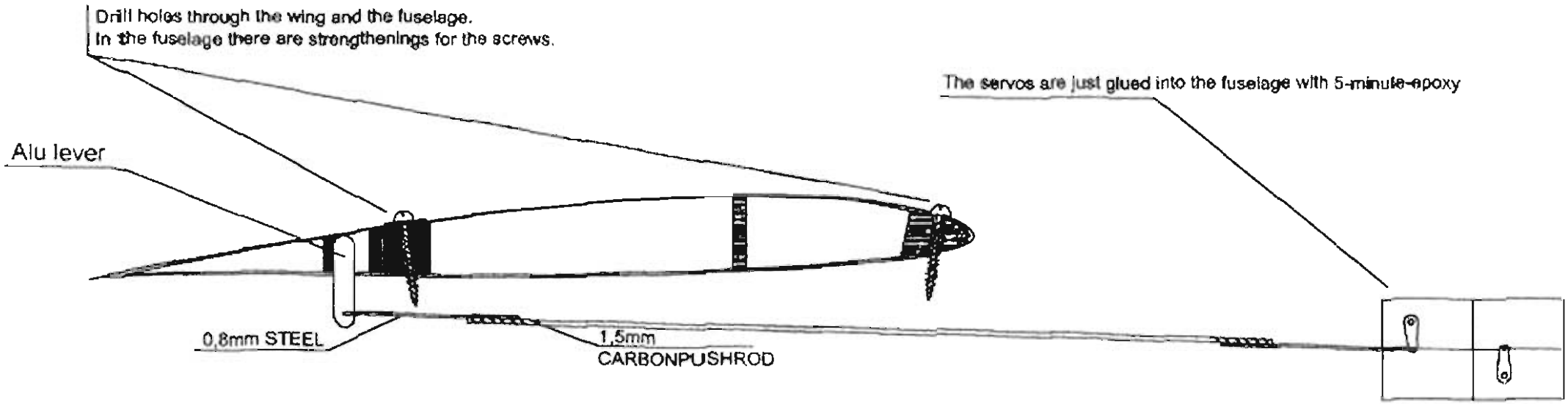


START: 2 mm UP

THERMAL: FLAPS 2mm DOWN

SNAP FLAP: FLAPS 3mm DOWN
IF ELEVATOR MAX UP

BRAKE: FLAPS 20mm down



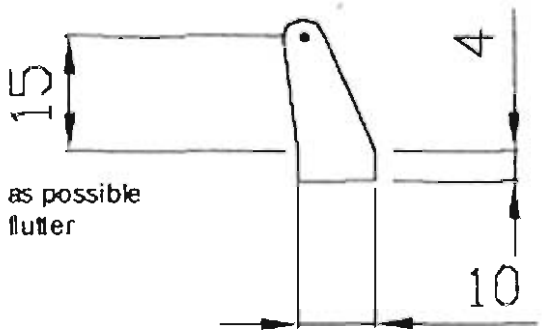
Levers you need

Aileron

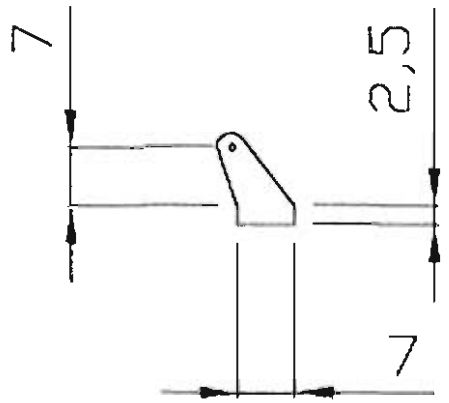
Alu tube

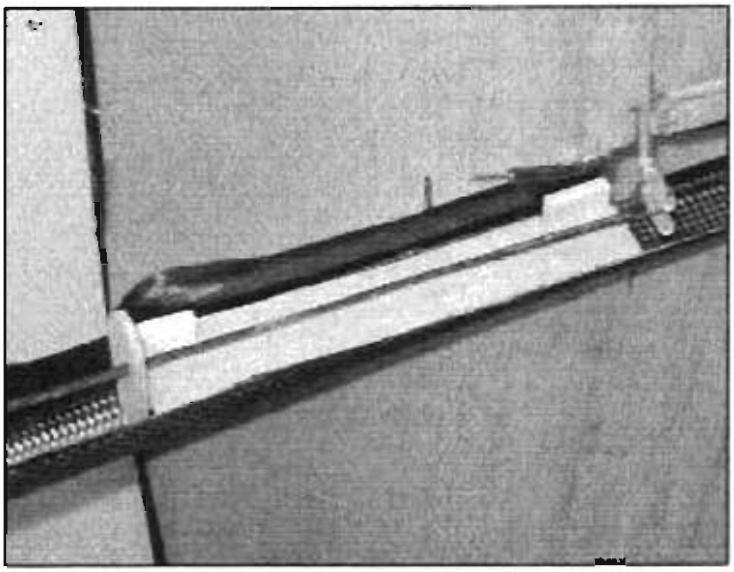
as long as possible
against flutter

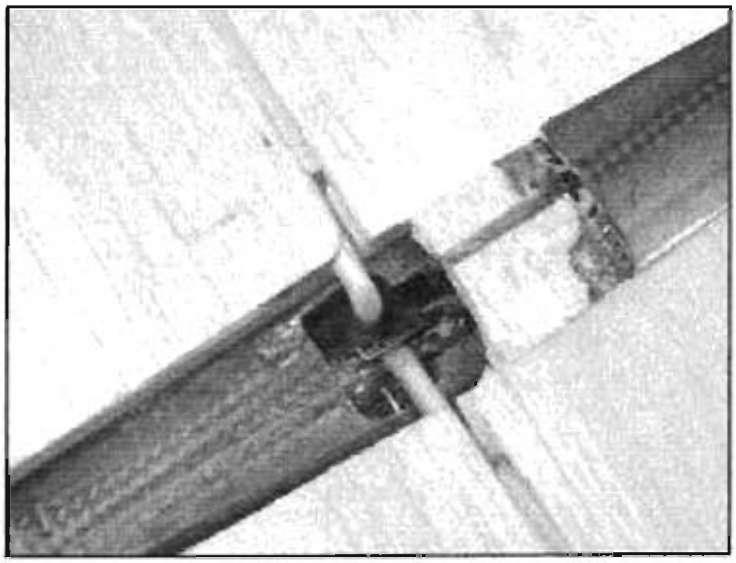
Elevator

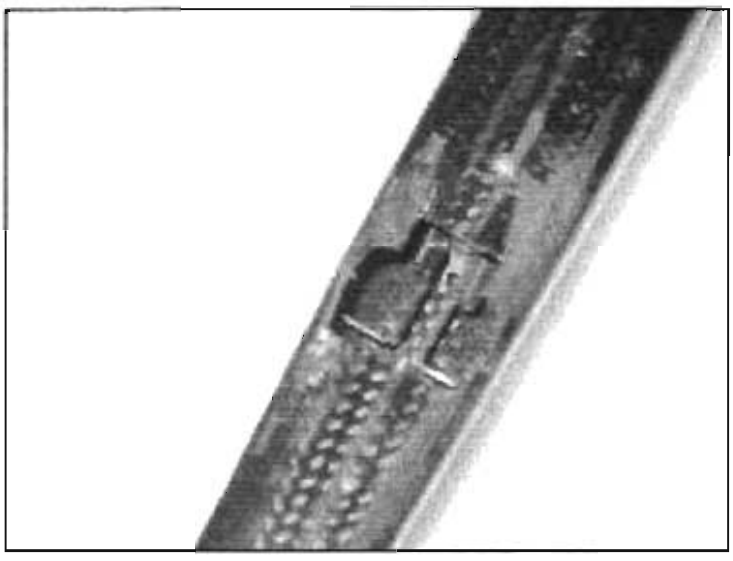


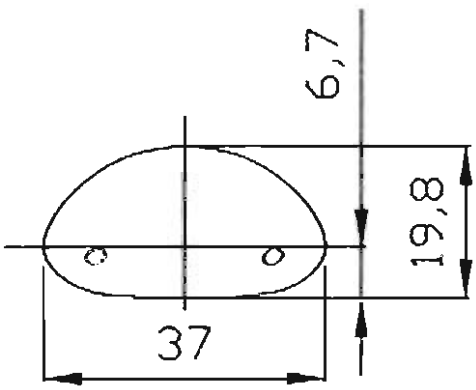
Rudder

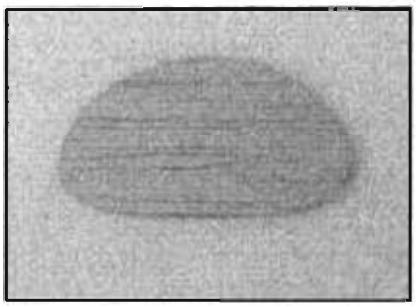


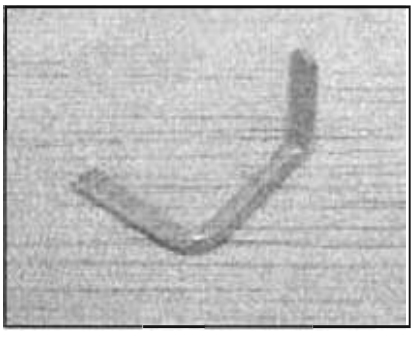


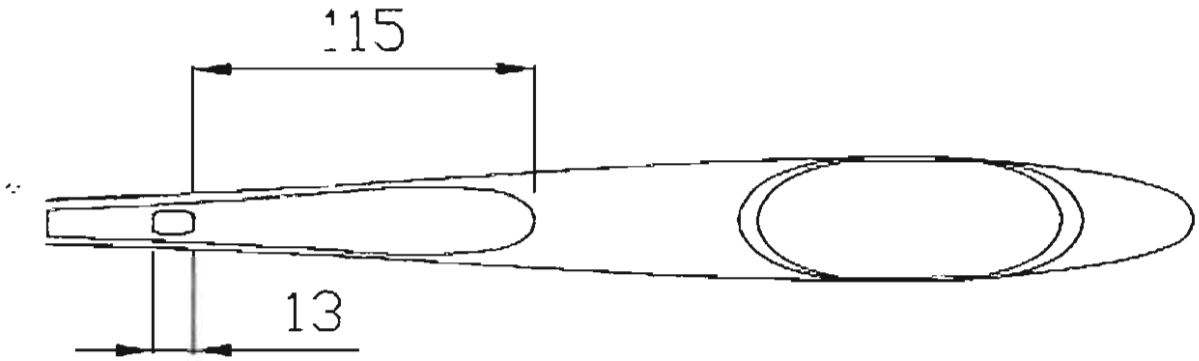




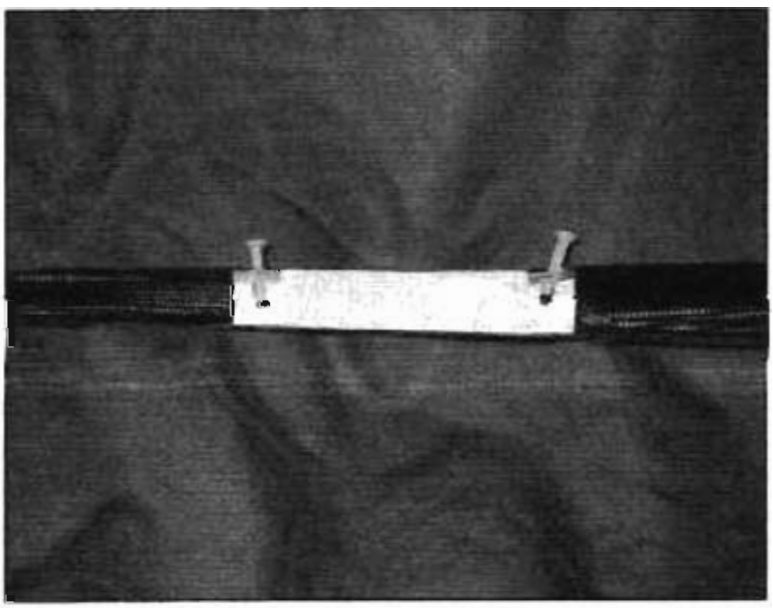

6,7
19,8
37

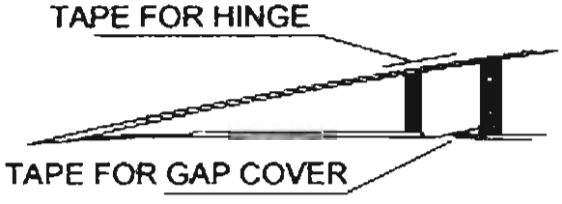


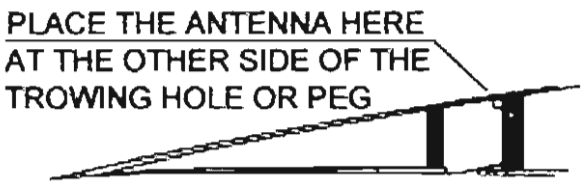


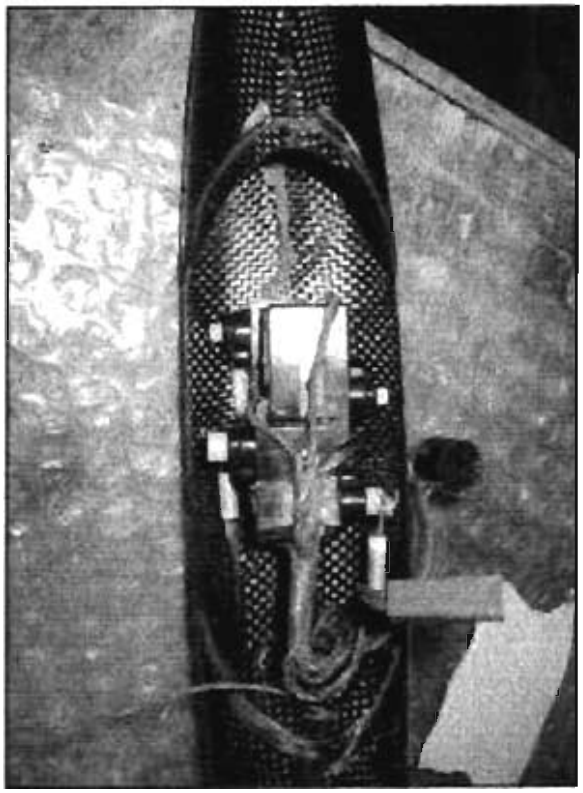


Glue the balsa strengthening and the plywood for the screws into the fuselage

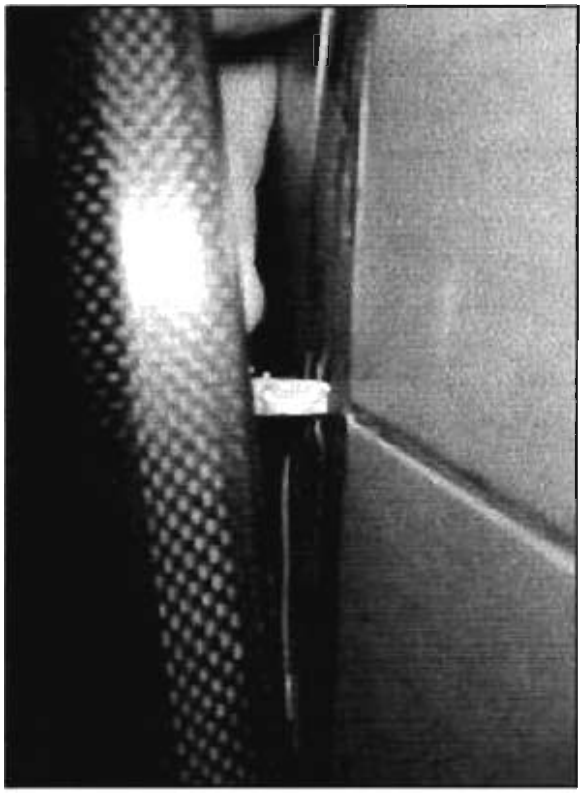




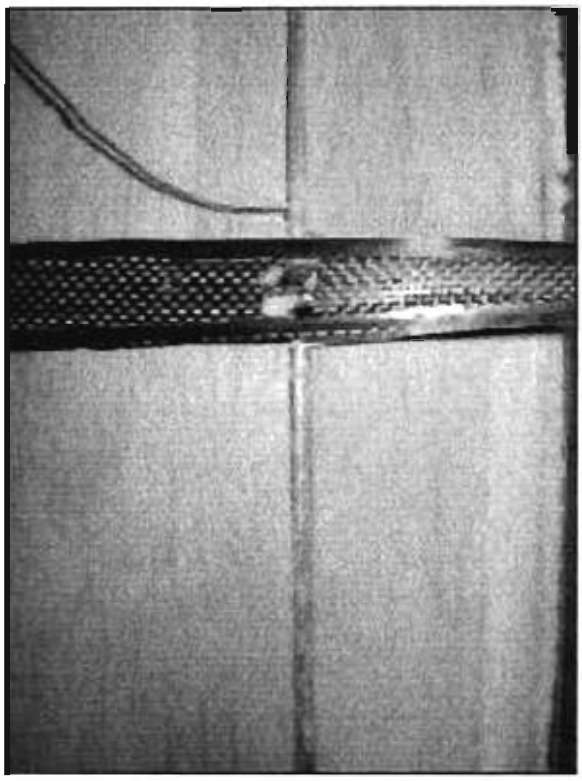




Servo fixing



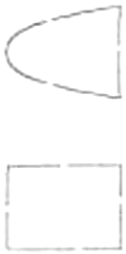
Aileron levers



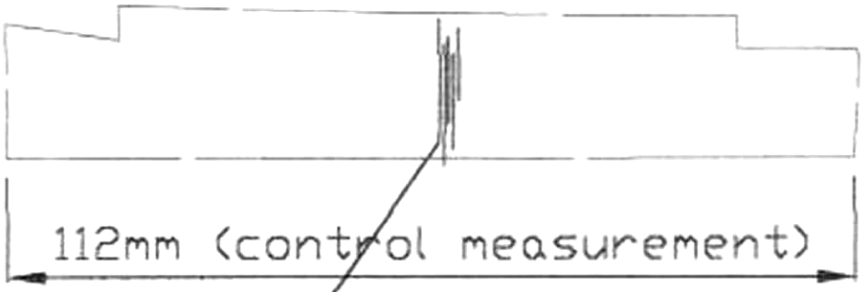
Milled parts M 1:1

or template for those who haven´t ordered the milled parts

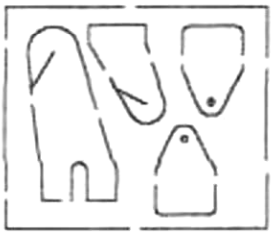
Plywood 3mm



Balsa 2mm

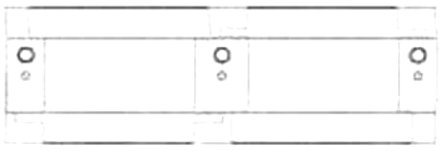


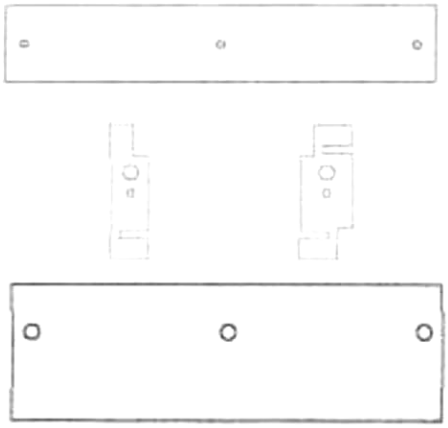
Plywood 1mm

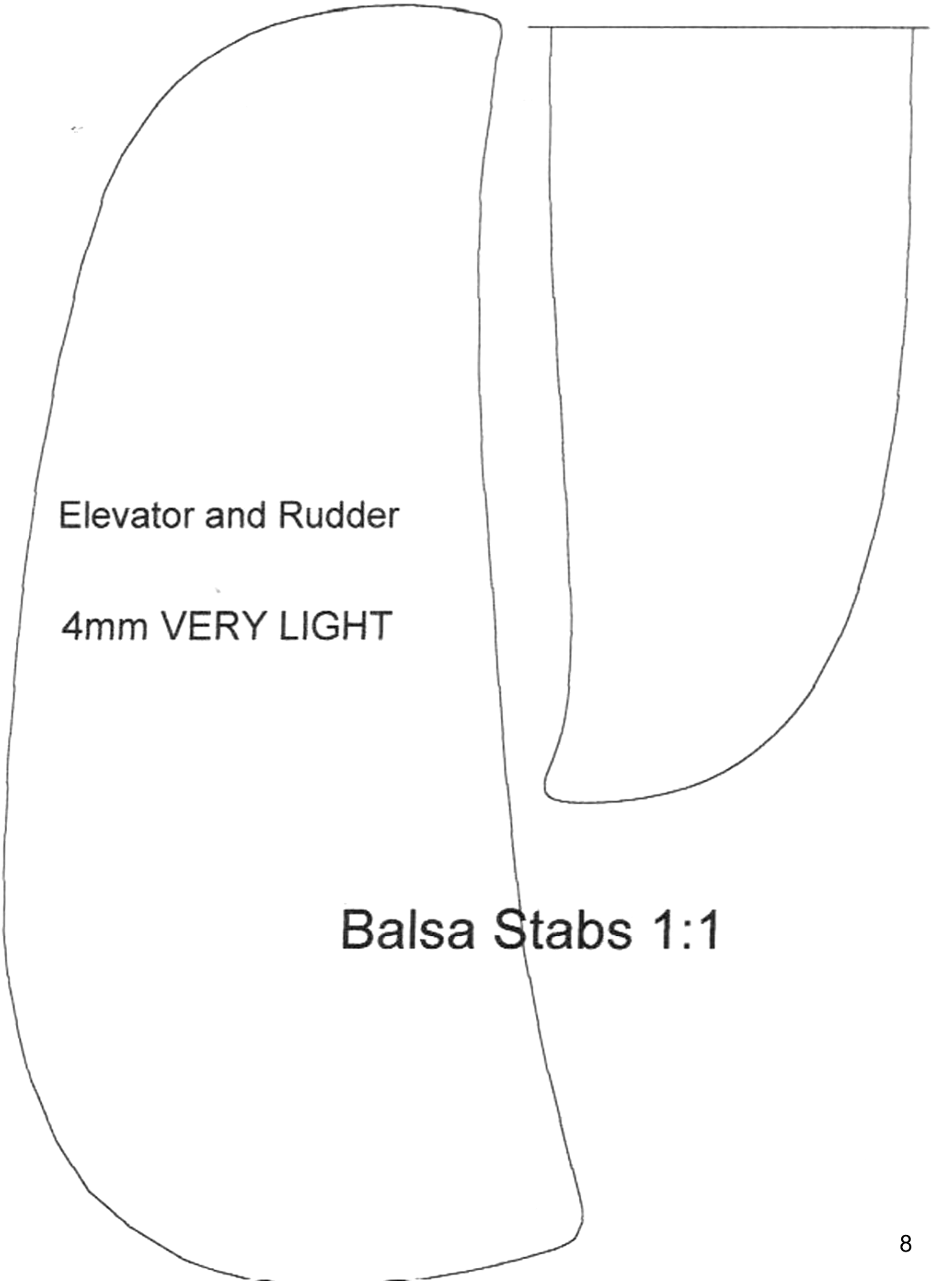


Grain direction

Servo-fixing for DYMOND D54







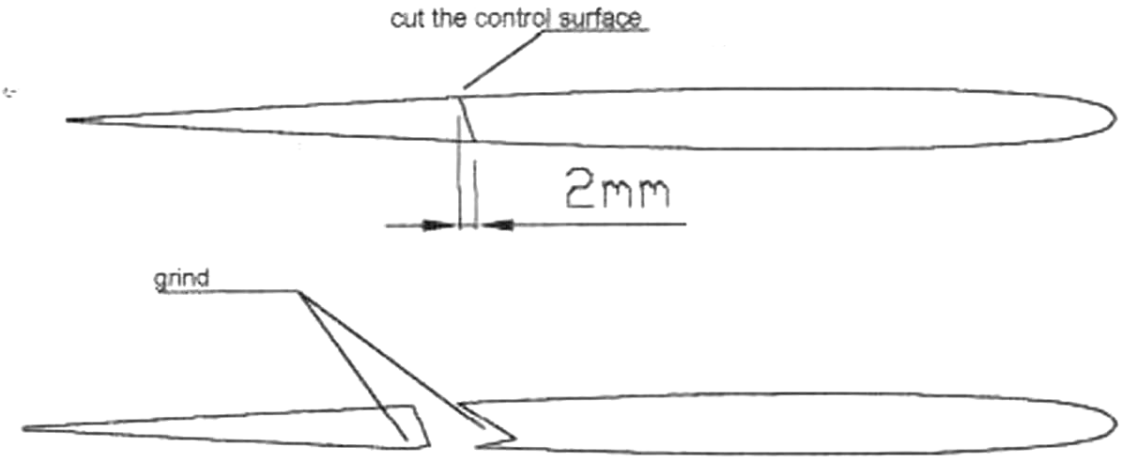
Elevator and Rudder

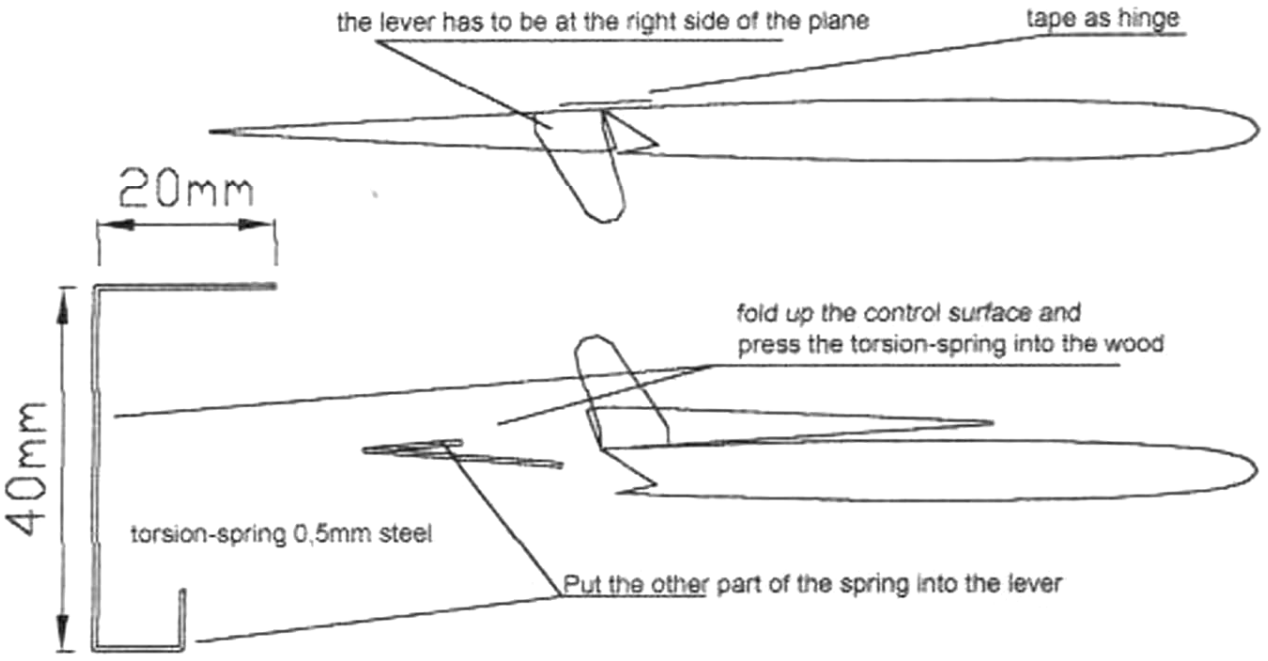
4mm VERY LIGHT

Balsa Stabs 1:1

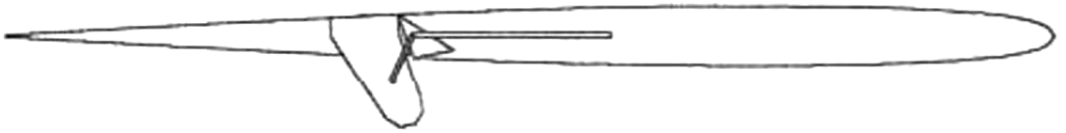
Rudder

If you throw with the right hand put the rudder lever at the right side of the rudder. lefthanded ->left side.





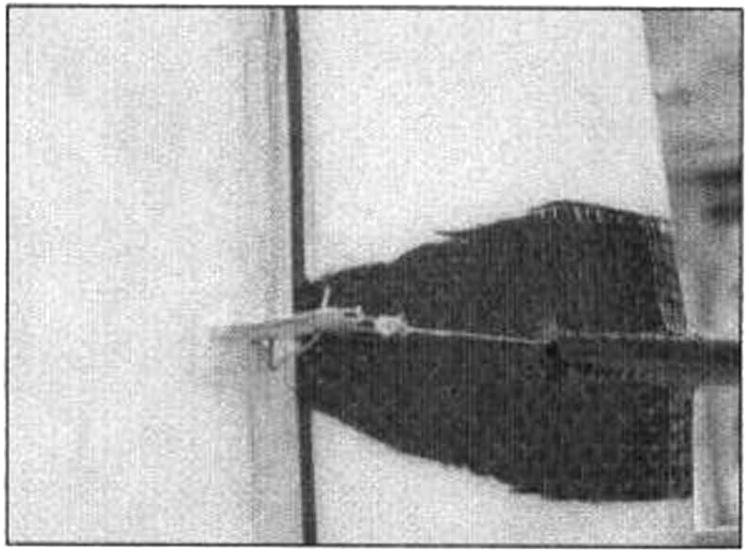
fold back, put the thin steel into the -

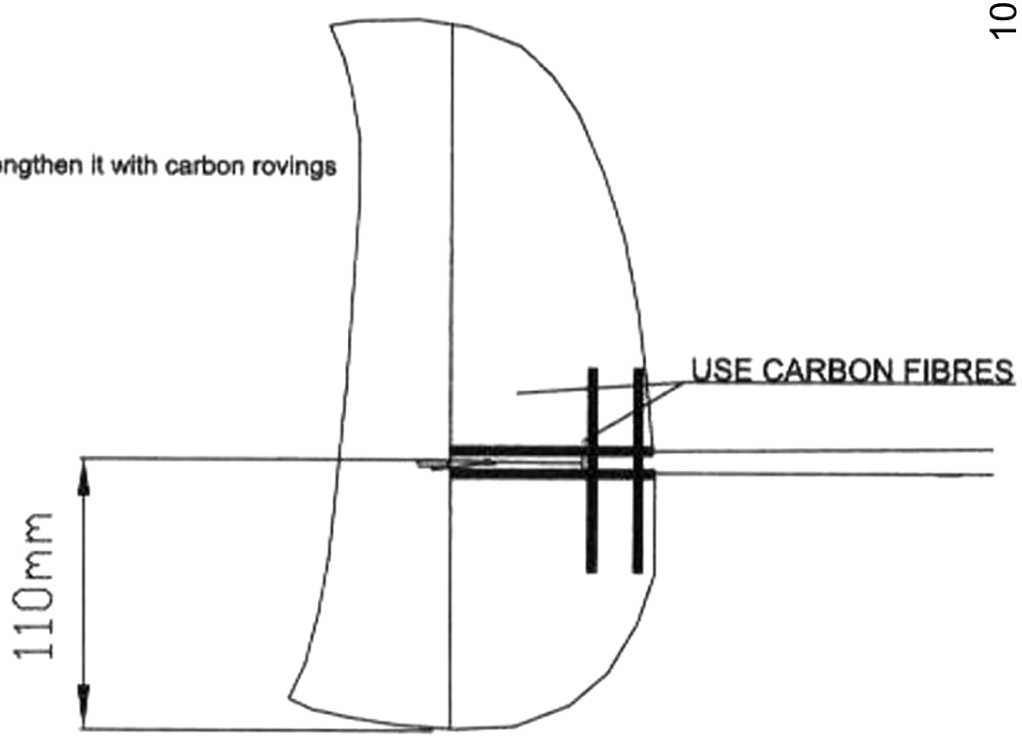


-lever and glue the rudder and the elevator to the fuselage

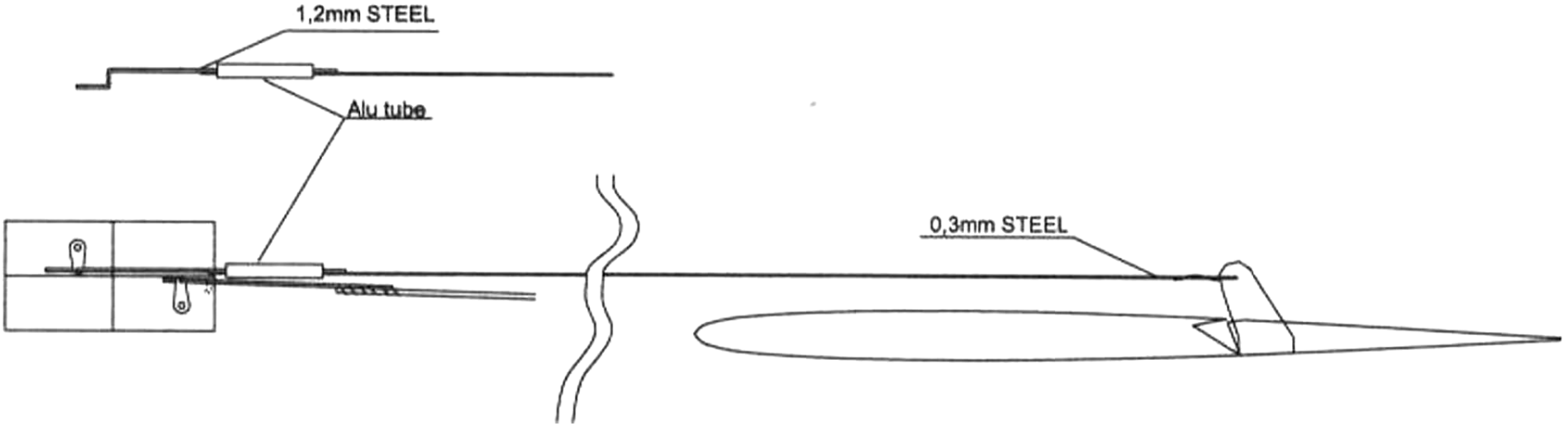
You find a foto at the next site %

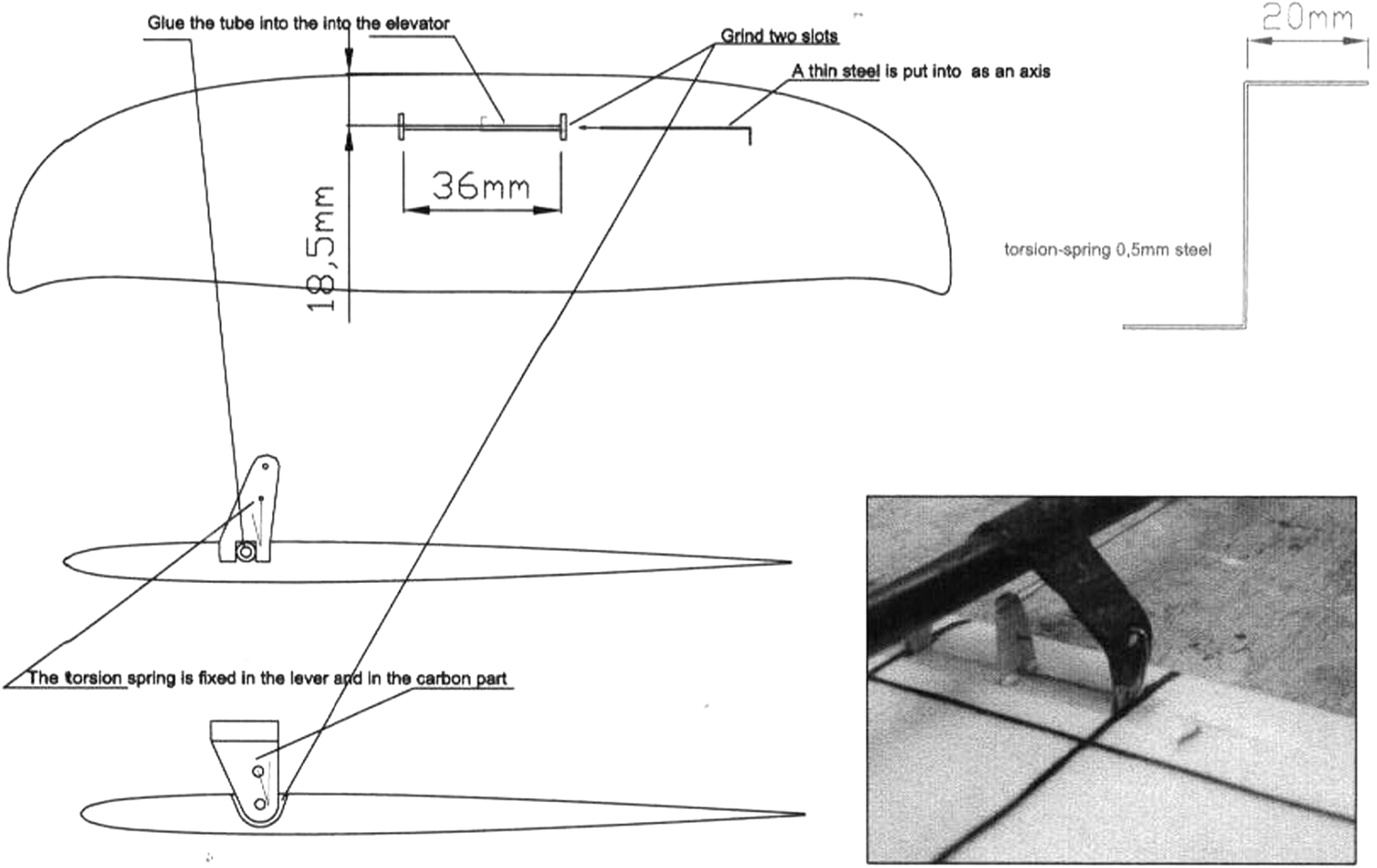
Glue the Rudder to the boom and strengthen it with carbon rovings

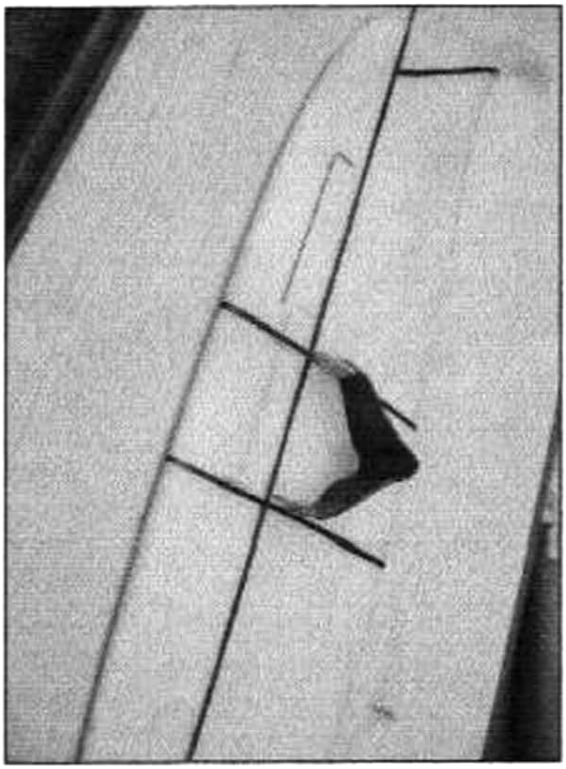


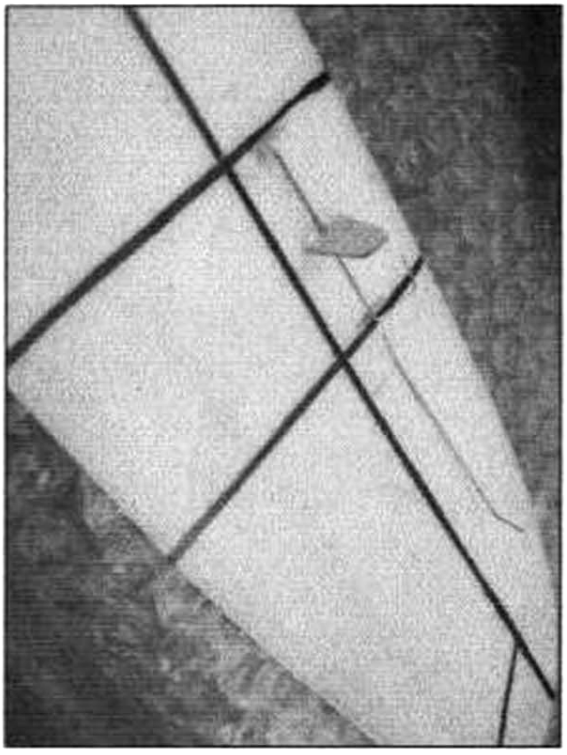


Put the servo levers in the middle, connect the thin steel, then you can trim with the position, where you glue it in




Glue the tube into the into the elevator
Grind two slots
A thin steel is put into as an axis
36mm
18,5mm
20mm
torsion-spring 0,5mm steel
The torsion spring is fixed in the lever and in the carbon part





Fireworks III – Full carbon wing

If your FWIII has a full carbon wing please notice following important details:

1. Antenna

Don’t fix the antenna as shown in the general building instruction!
here is the new necessary way how you have to fix the antenna (because of the all carbon built plane):
Lead the antenna in the middle of the fuse behind the wing and then leave the fuselage. Then glue the antenna to the rudder. The length of the antenna outside of the fuselage has to be the whole usual length of the antenna. That means you have to add the length that is in the fuselage to the end.

And you have to connect the minus to the wings. We had no luck connecting the fuselage. So if you try other versions please always test it before you fly.

Always test the range of the antenna on ground before you fly!

2. Sun protection

Please **don´t let your Fireworks lie in the sun!!** If you don´t find shadow, put a cover just over the wings.