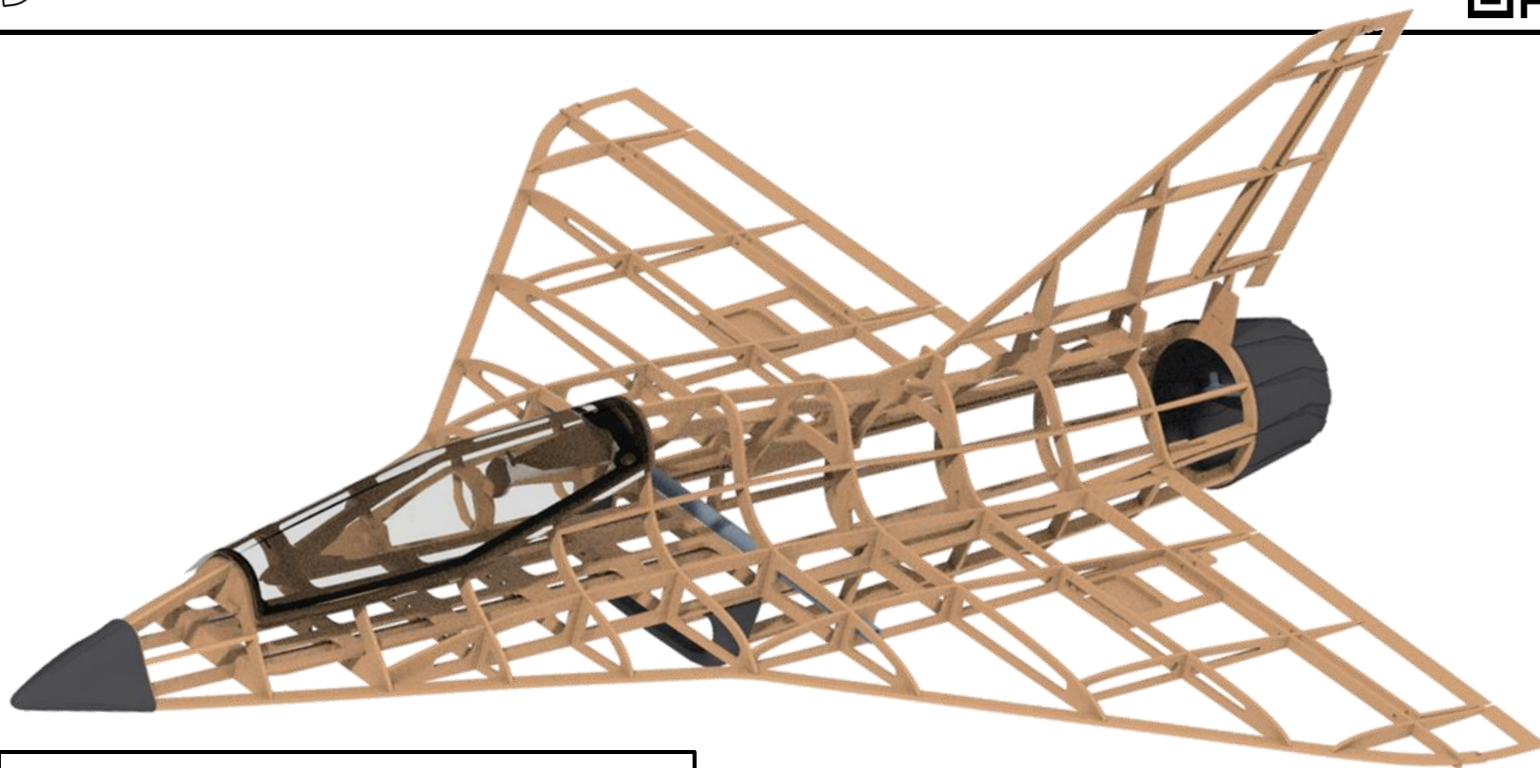




Squall70



length	980mm
wing span	755mm
weight	1.7-2.5kg
wing load	100g/dm²
recommended fan	Ø70mm
recommended LiPo	6S 2200 - 4000mAh



general Information



Thank you for choosing a kit from tomjets and thank you for your trust! Kits from tomjets are not only unique in their design and flight characteristics, but also focus on building as a new experience. Let yourself be surprised!

The Squall70 is the most affordable introduction into the tomjets revolution of scratchbuilding. Easy to hand launch and belly land and thus a perfect winter jet, which always fits in any trunk. The delta shape provides a wide range of speed and with the included vector controls it guarantees a huge fun factor.

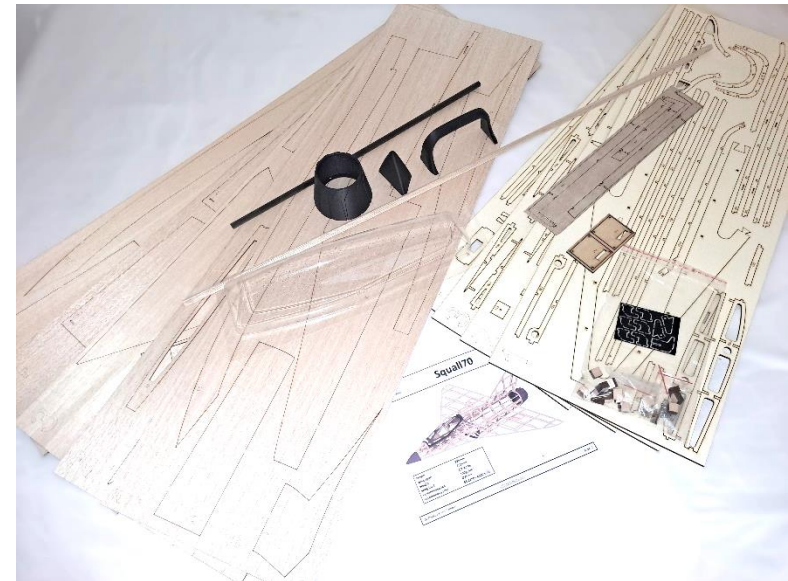
For the sake of order, it should be mentioned that it is by no means a toy and that careful construction and flight are required. The responsibility for ensuring safety is entirely with the builder or pilot.

The use of tools is limited to the following: Stanley knife, steel lineal, foil iron, multifunction tool (cutting, grinding, drilling), soldering iron, pins, clamps, brushes, cable ties, paper tape, sandpaper, superglue, white glue, 5min epoxy resin, glue on PU base, nail polish remover, etc....

jet kit content



description	comment	pcs.
poplar plywood 3mm	plate 1-4	1
balsa sheets 2mm	plate 1-5	1
fiberglass parts 1,5mm	control horns, canopy latch,...	1
aircraft plywood 0,4mm	trailing edges	1
birch plywood 2mm	servo covers	1
canopy	0,5mm PET-A	1
wing spar	CFRP 10x8x500	1
nozzle	3D print ABS	1
nose cone	3D print ABS	1
airintake	3D print ABS	1
canopy lock	neodymium magnet D10x3	4
rudder hinges	D2.5xL43xW10mm	8
balsa blocks	for hinge bonding	16
flat headed screw M2,2x10	for servo covers and 3D parts	20
triangular balsa strip 8mmx1m	for controll surface chamfer	1





Squall70 EDF kit

description	comment	pcs.
thrust pipe	0,5mm PET foil 0,6x0,3m	1
vectorblade	3D printed ABS	3
vector star	3D printed ABS	1
hinge wire	1,5x100mm	1
velcro 20x300 mm	for battery mount	2
anti-slip pad ca. 10x20cm	for battery mount	1



Squall70 decals kit

description	comment	pcs.
high-quality fuel-resistant adhesive film	tomjets design	1





optional content



tomjets bungee launch kit

description	comment	pcs.
20m rope (8m expander)	incl. anchor and spindle	1





remove the wood parts



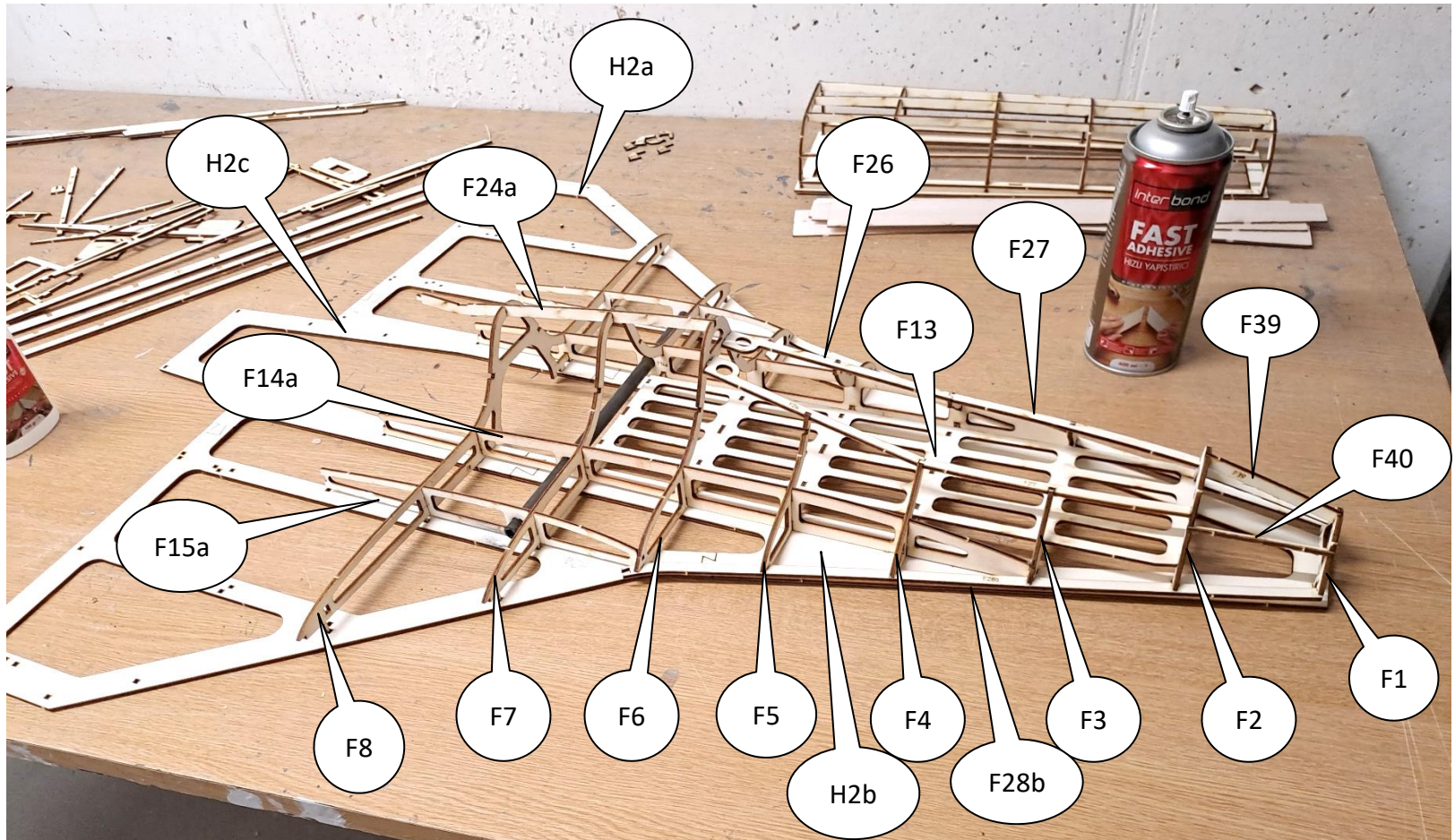
H=helling
F=fuselage
W=wing
R=rudder
C=canopoy



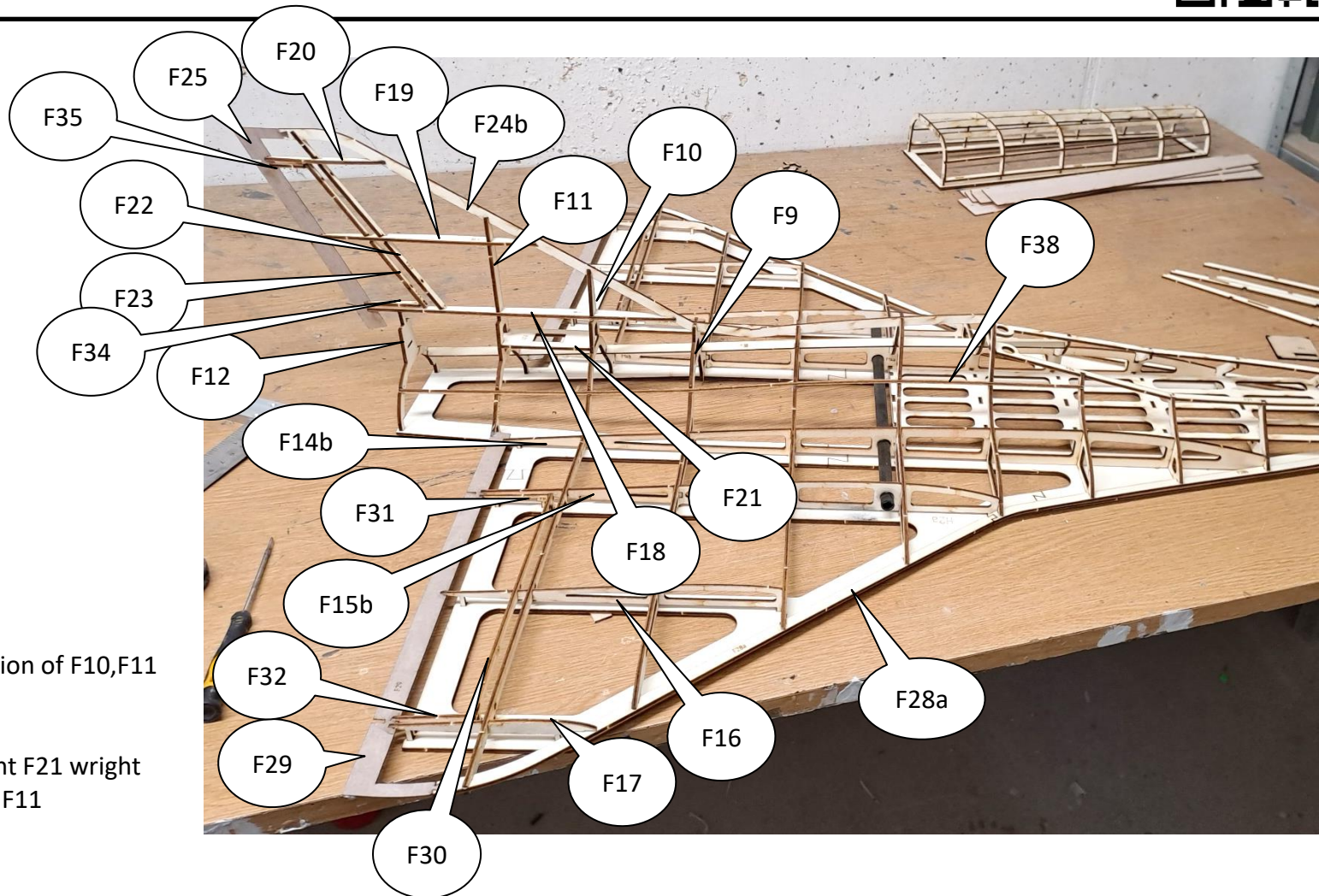
handle with care





fuselage front



fuselage rear

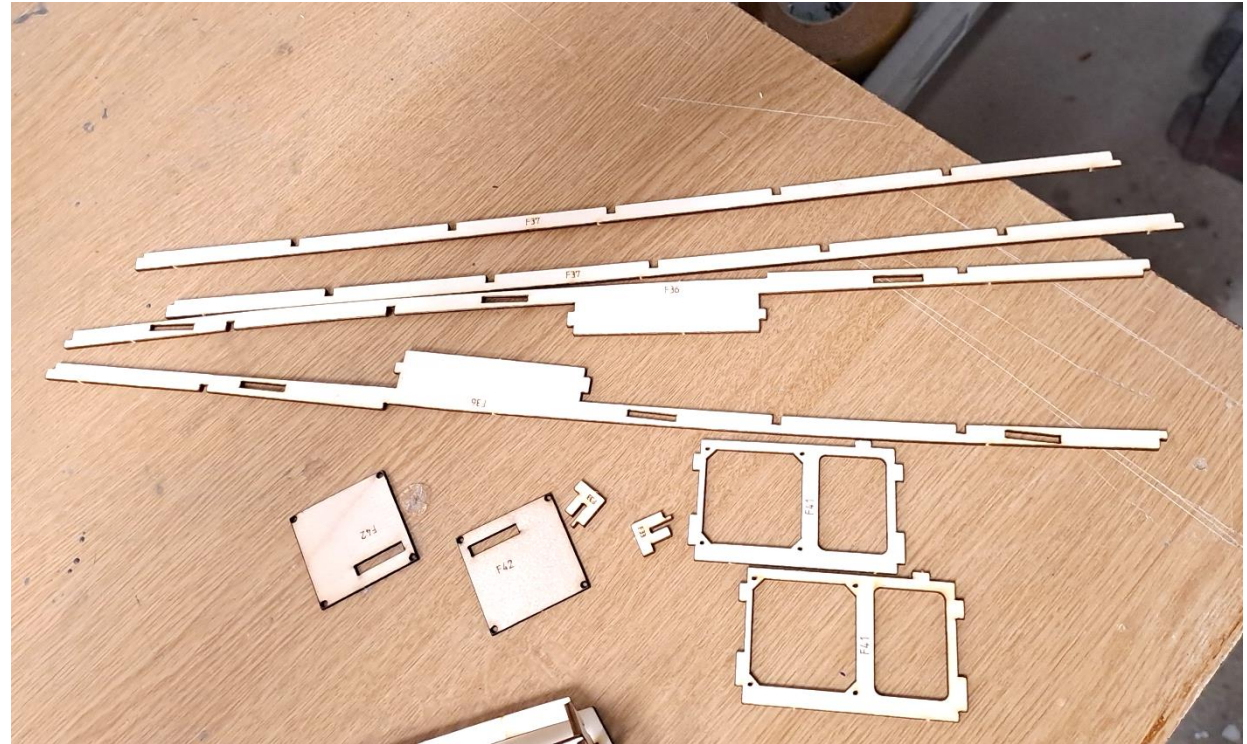


 direction of F10,F11

 mount F21 wright after F11



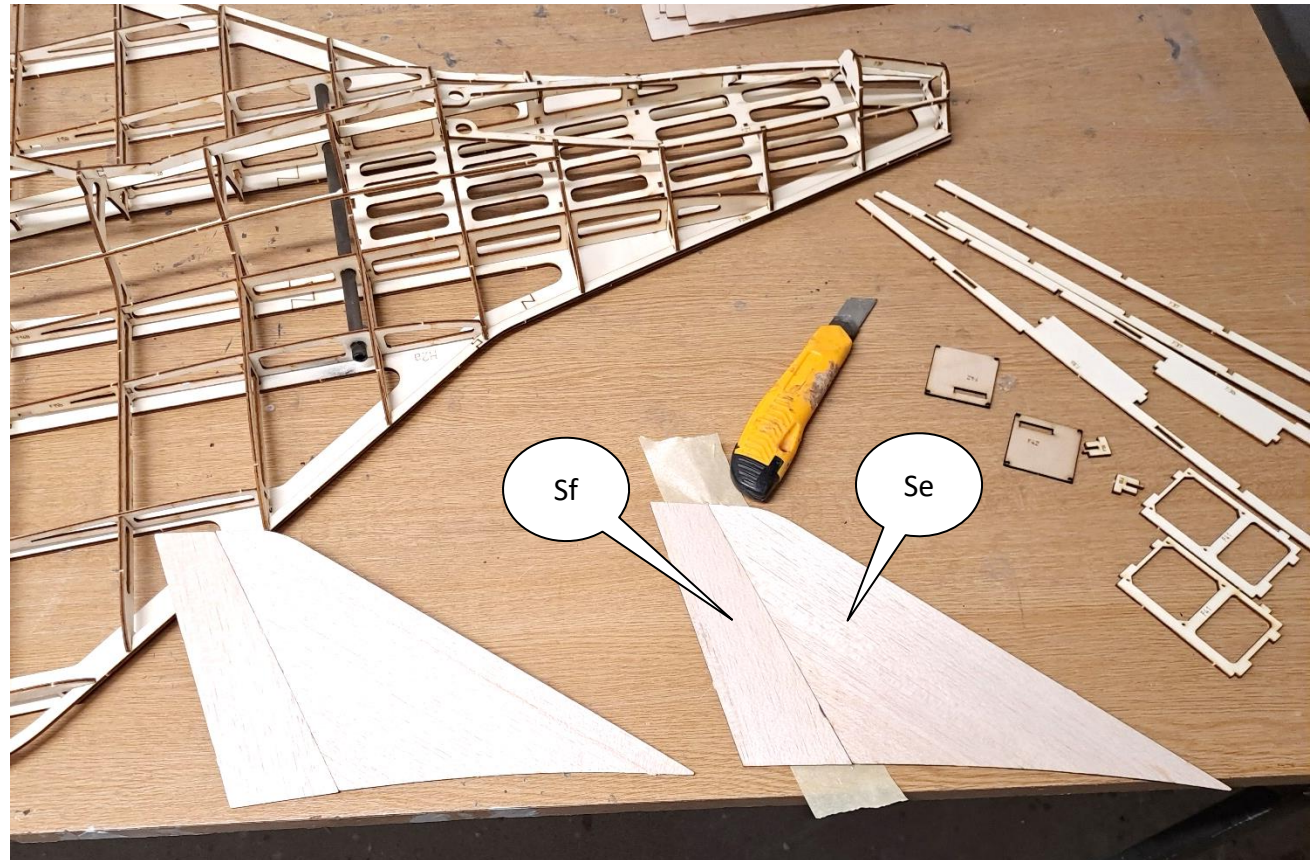
F33, F36, F37, F41, F42
can be glued from the
bottom, after the top is
sheeted



sheeting rudder



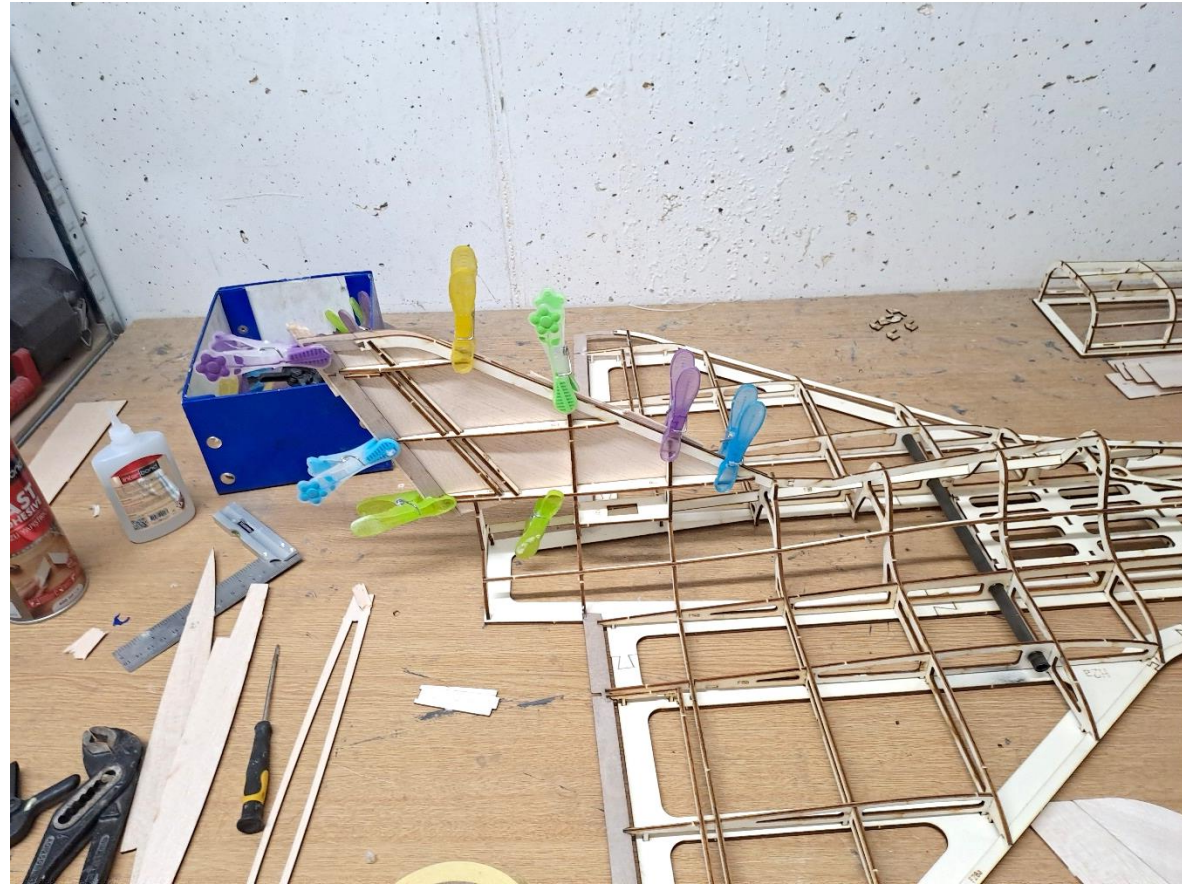
i glue Se + Sf before



sheeting rudder




i use CA Glue where a fast bonding is required



sheeting rudder

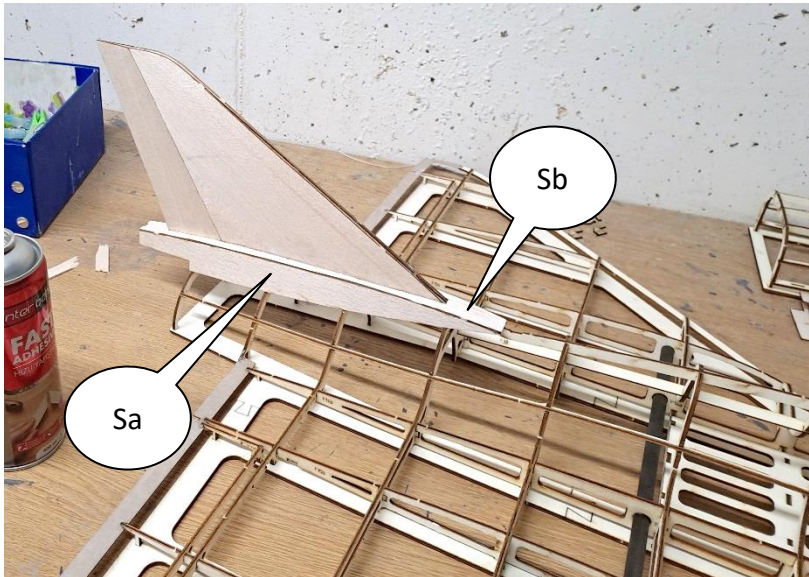


 mark the cutting line by sticking a needle through

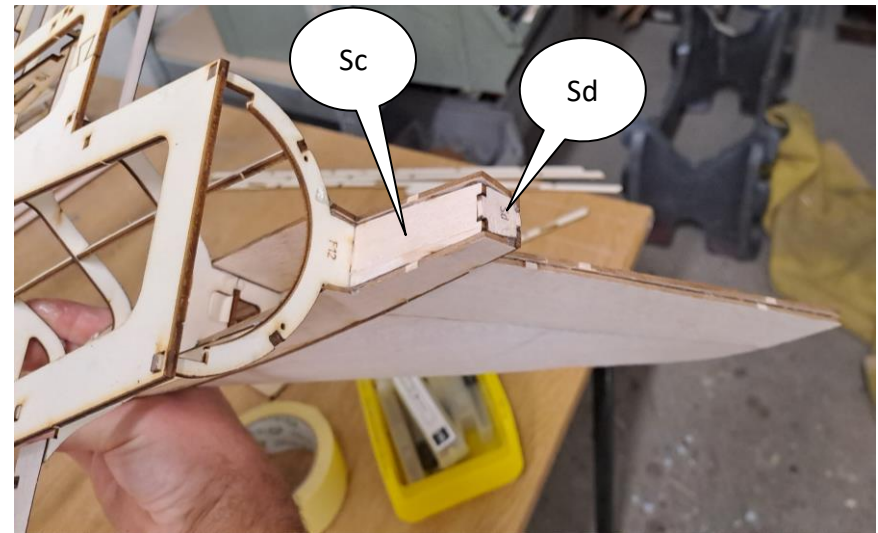


glue balsa blocks for the hinges and cut the material above

sheeting rudder



Flip the jet + helling when access is needed;
the helling is not deciding at this stage



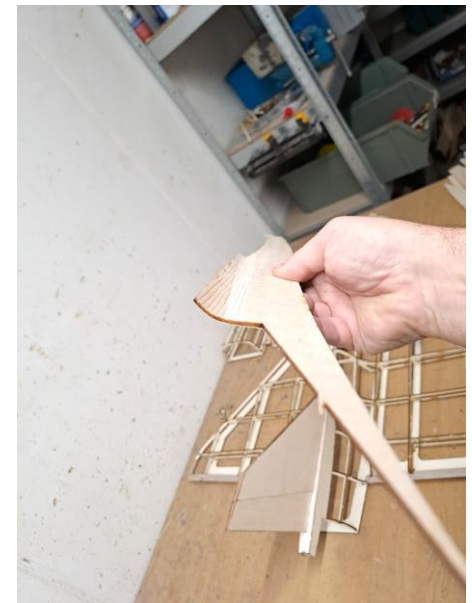
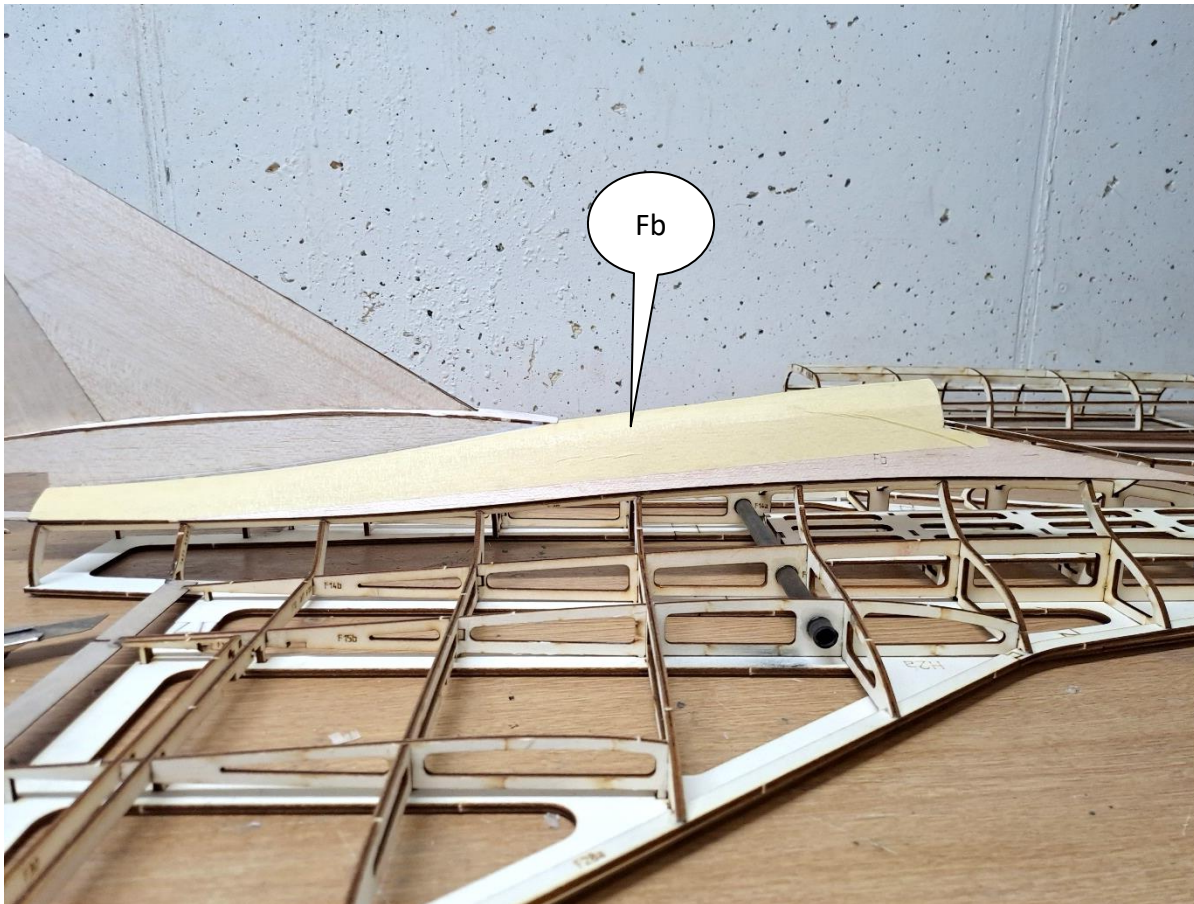
bending balsa sheets




- use the *tomjets-balsesroller* on the compressed fiber
- apply tape on the extended fiber
- use some mold and bend your sheet

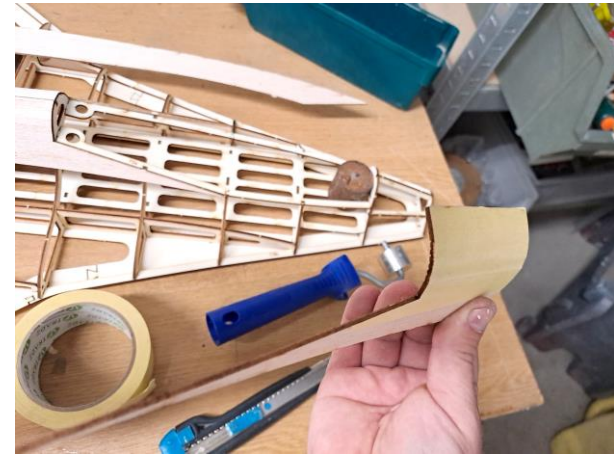
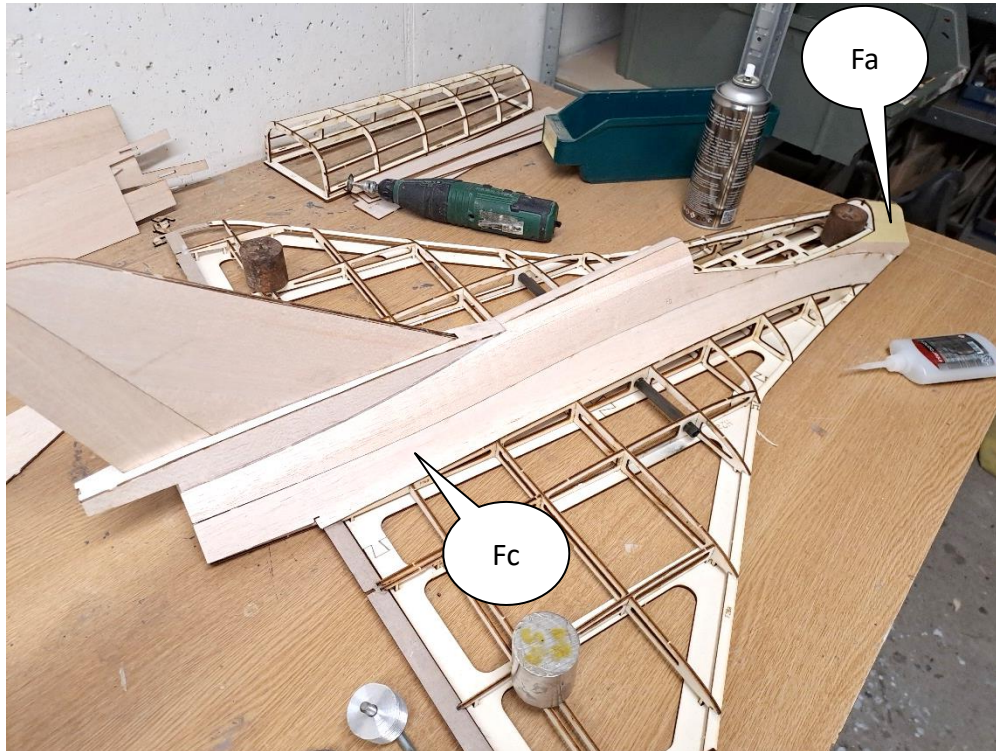



sheeting fuselage top side



 use CA Glue where a fast bonding is required

sheeting fuselage top side

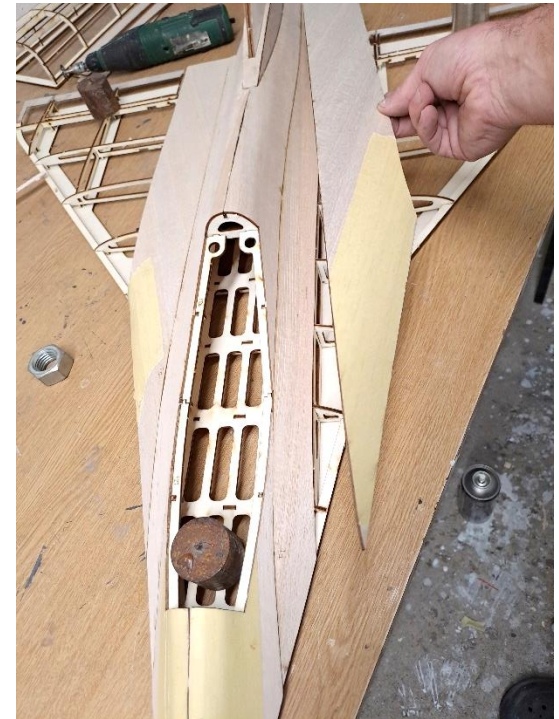
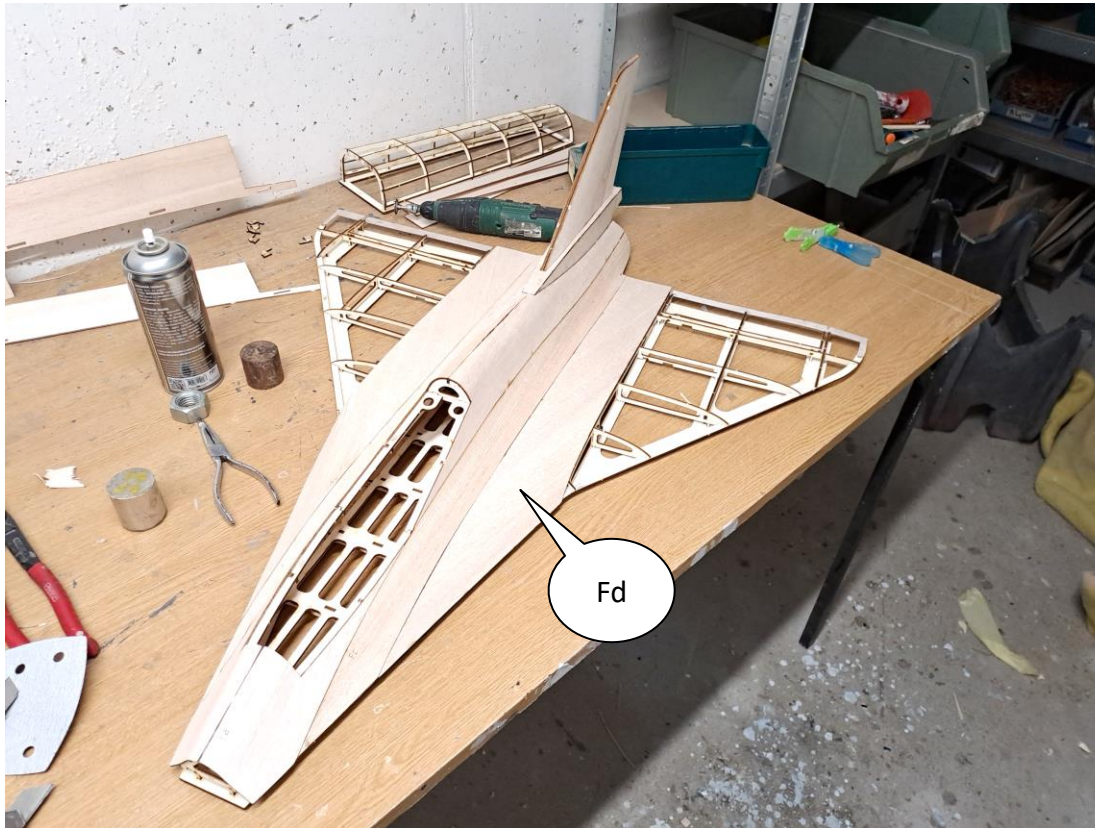



 prebend
your balsa
sheets



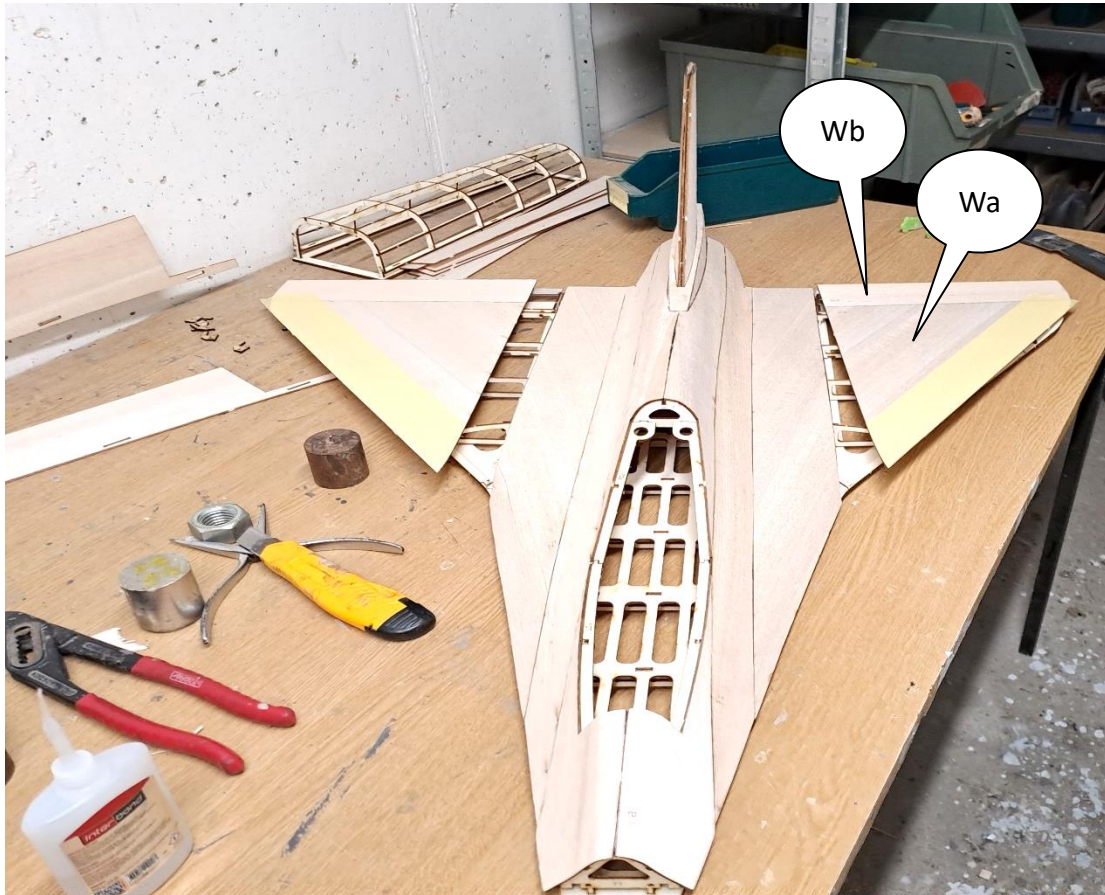
apply a sufficient amount of weight, and make sure that your fuselage is properly aligned on your building plate

sheeting fuselage top side



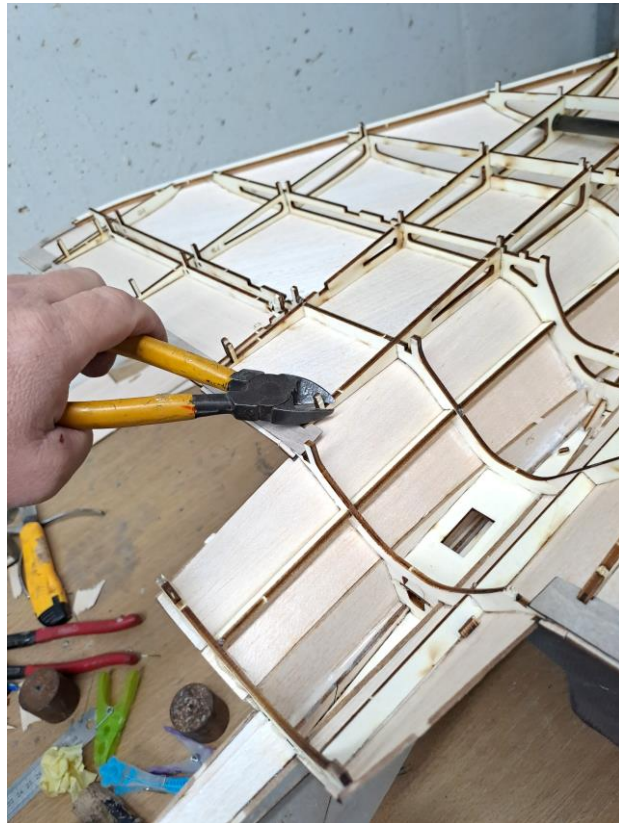
 prebend your balsa sheets

sheeting wing top side



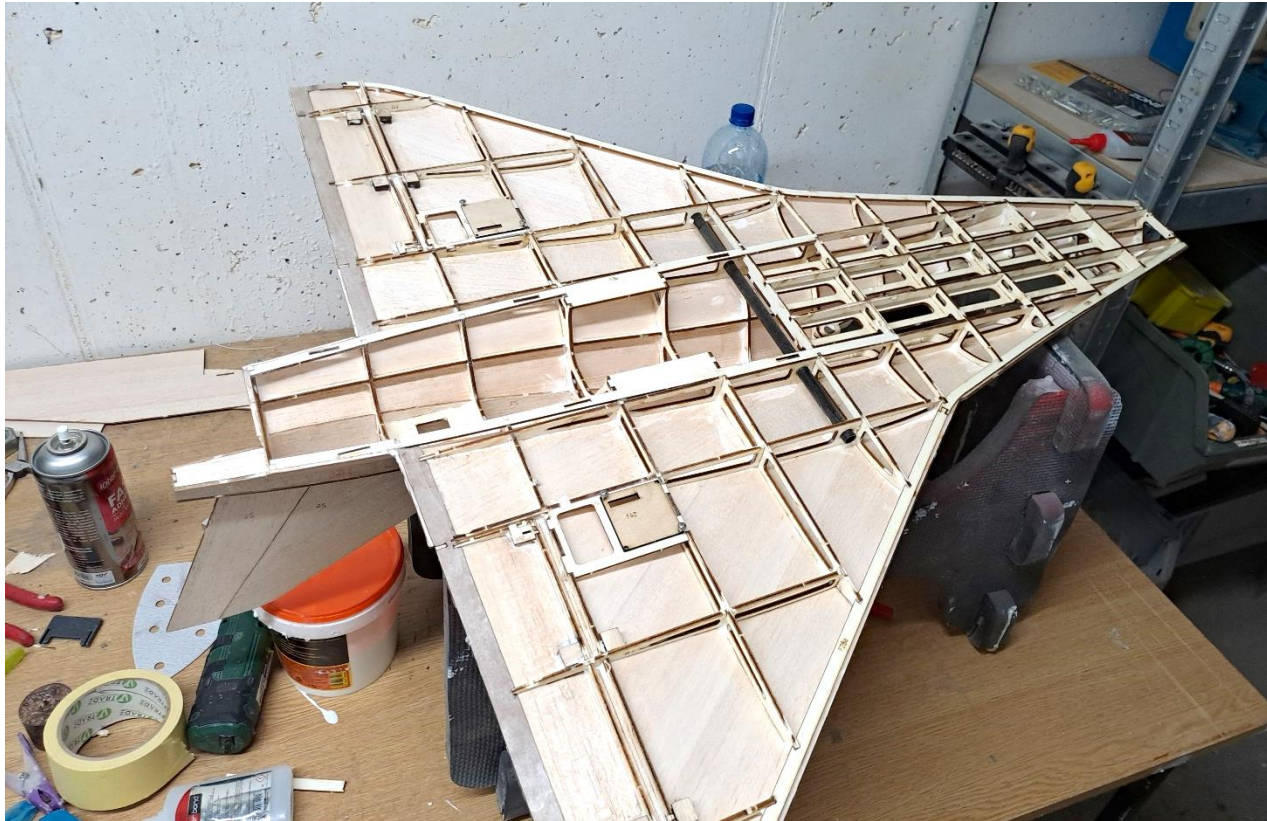
glue Wa + Wb before



sheeting fuselage bottom side

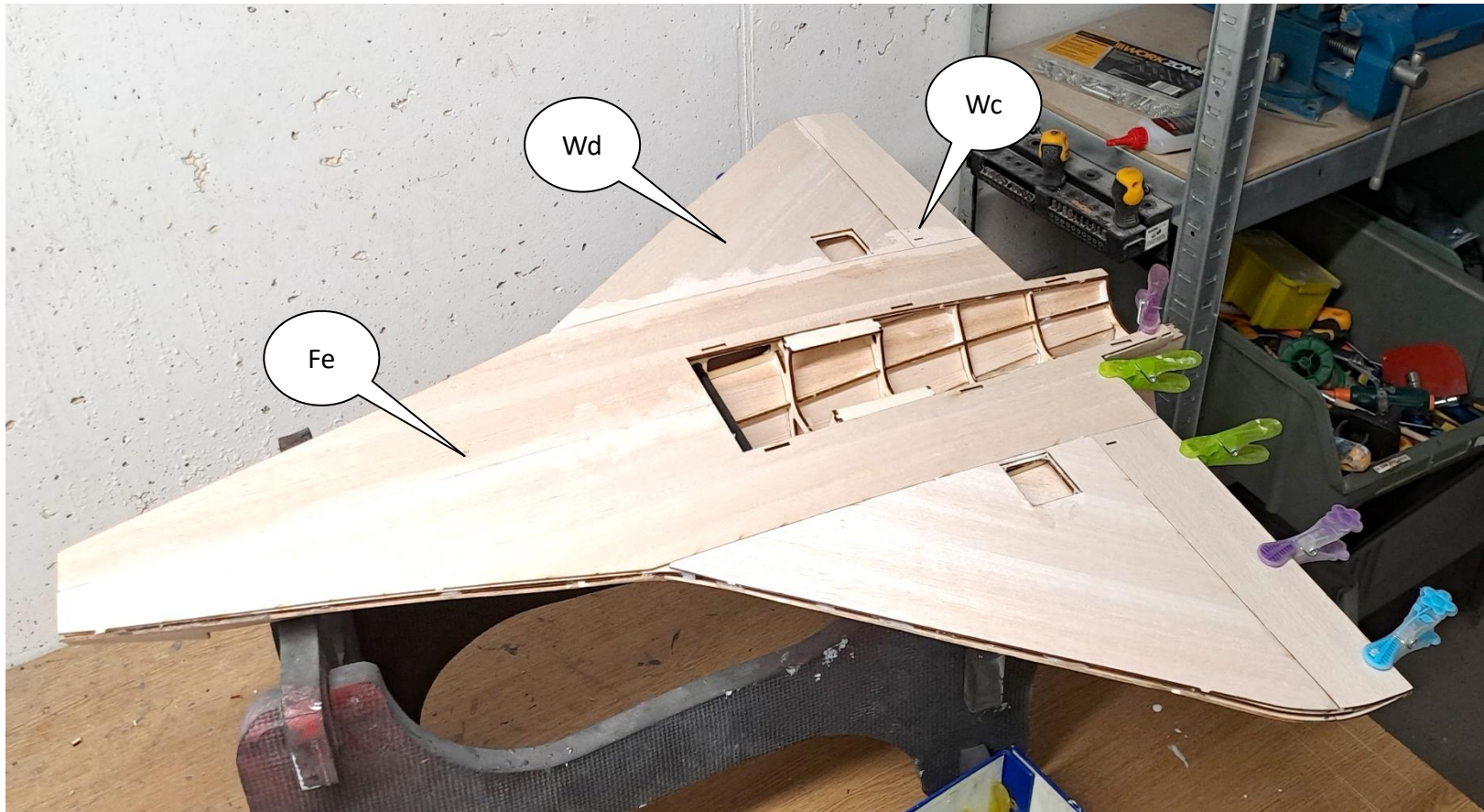


i apply some white glue if needed

i remove fuselage from helling, cut support the legs and assemble the parts which you couldn't access from the top



-  glue the support blocks for the hinges and mark the cutting line of the ailerons
-  mount the servo covers for guiding



glue Wd + Wc before



do not use weights in order to avoid distortion!



bungee hook



make sure that the bungee hook fits in position; but remove it again. the hook can be glued at the very end after the surface finish

close the leading edge



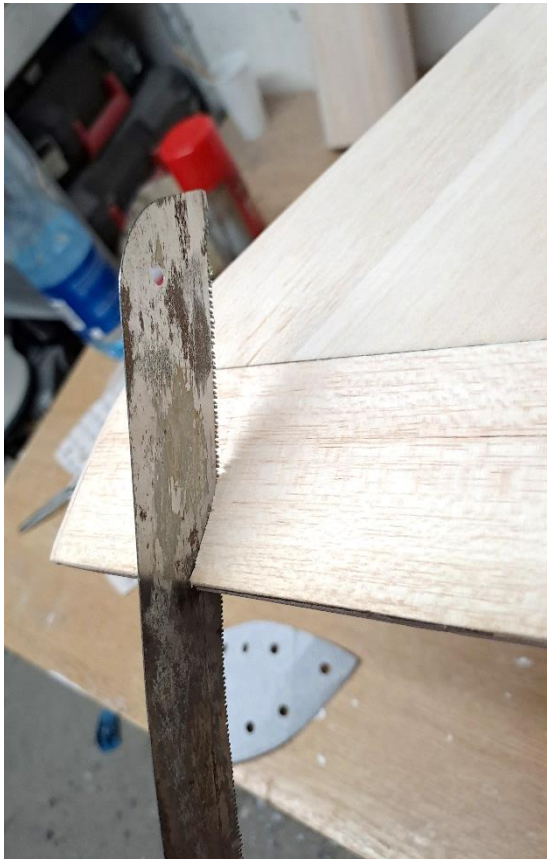
-  use balsa leftovers for closing the leading edge
-  apply some tape on the extended fiber

close the leading edge



close in the same way the leading edges of the wings and sand them

sepearat the controll surface



sepearat the controll surface



i Mark the positions of the hinges before attaching the triangular balsa strip

i use a 3mm drill



sepearat the controll surface

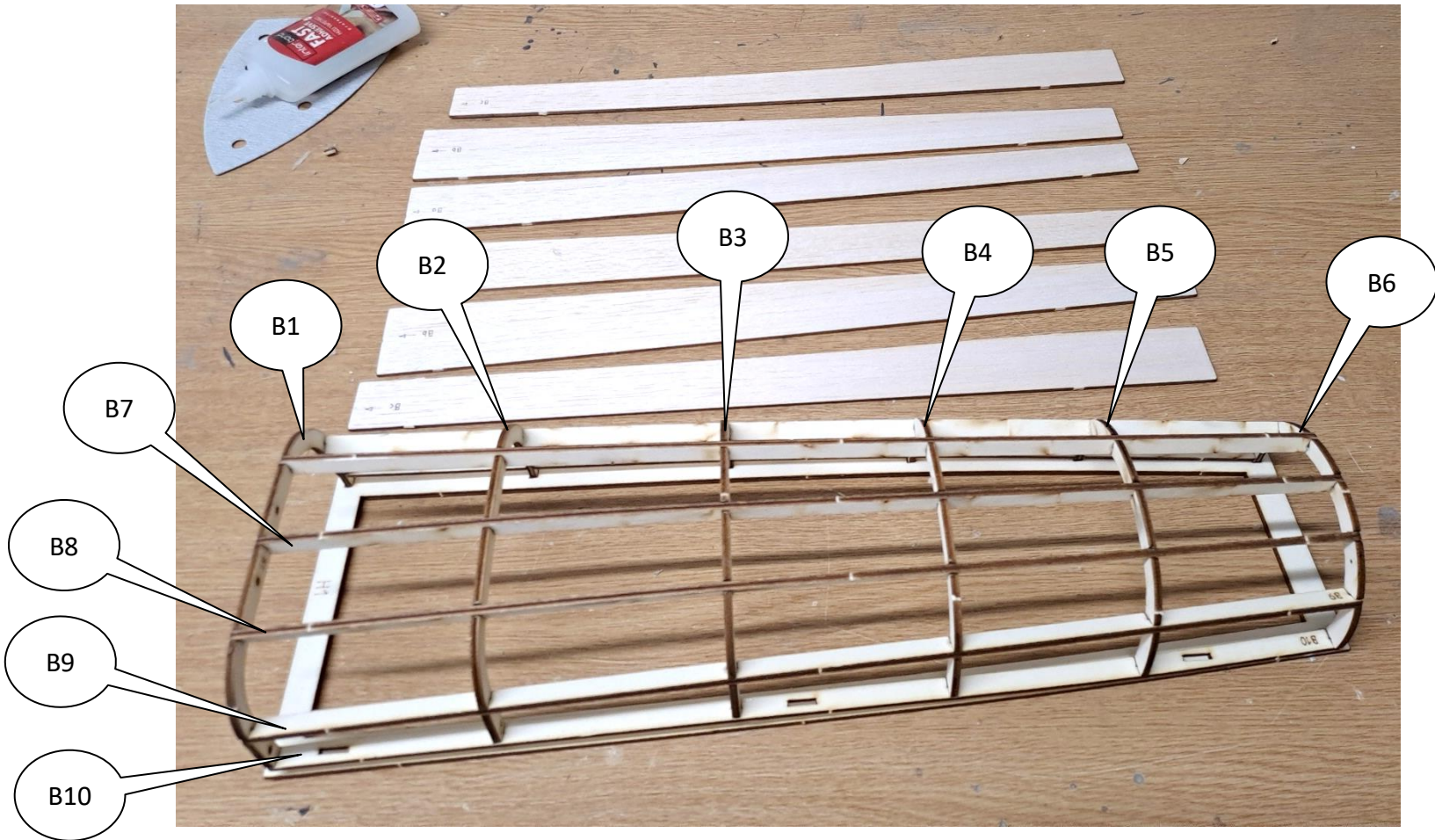


sink the hinges completely
in the triangular balsa strip

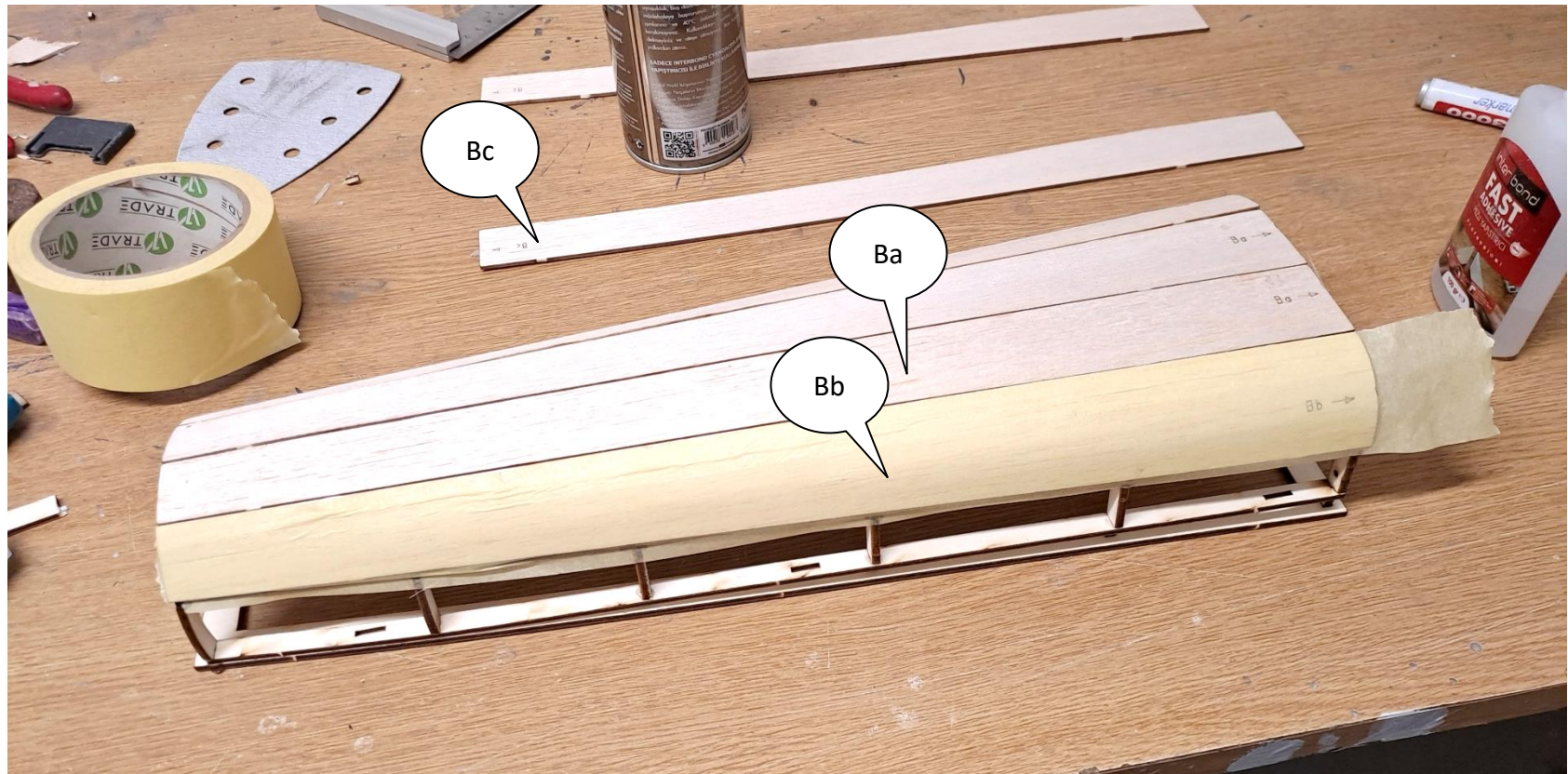



do not yet bond the
hinges and the ruder
horns

bottom cover



bottom cover




 apply some tape on the extended fiber

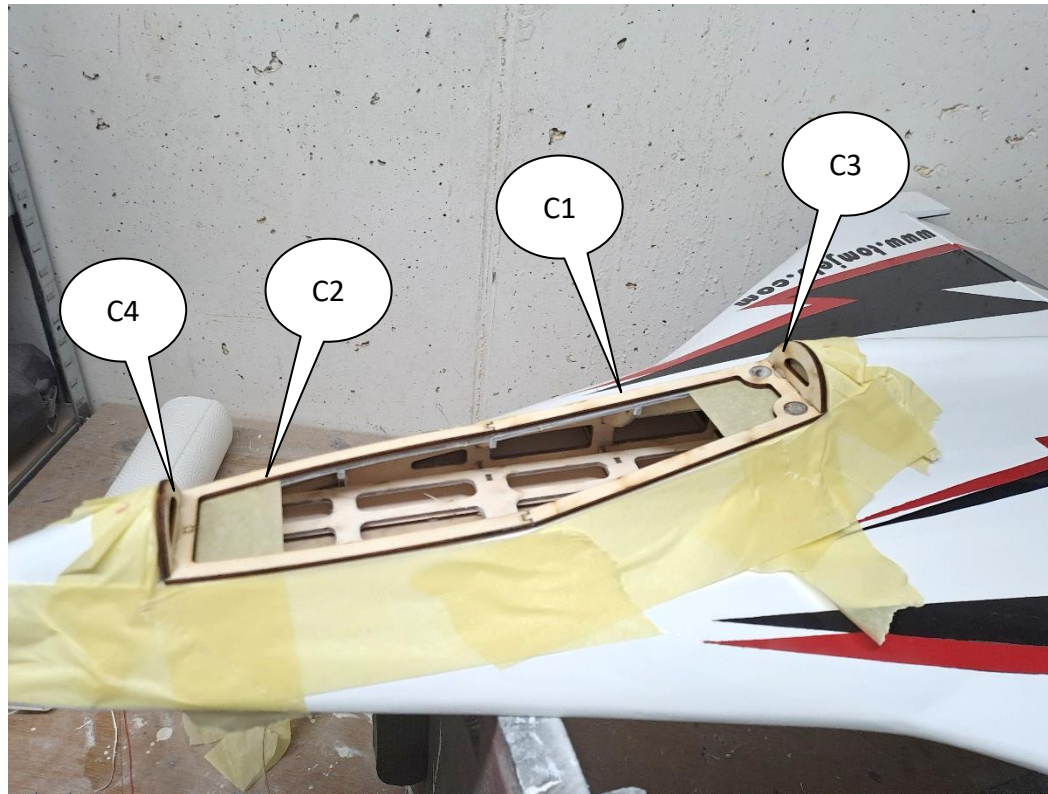



surface finish



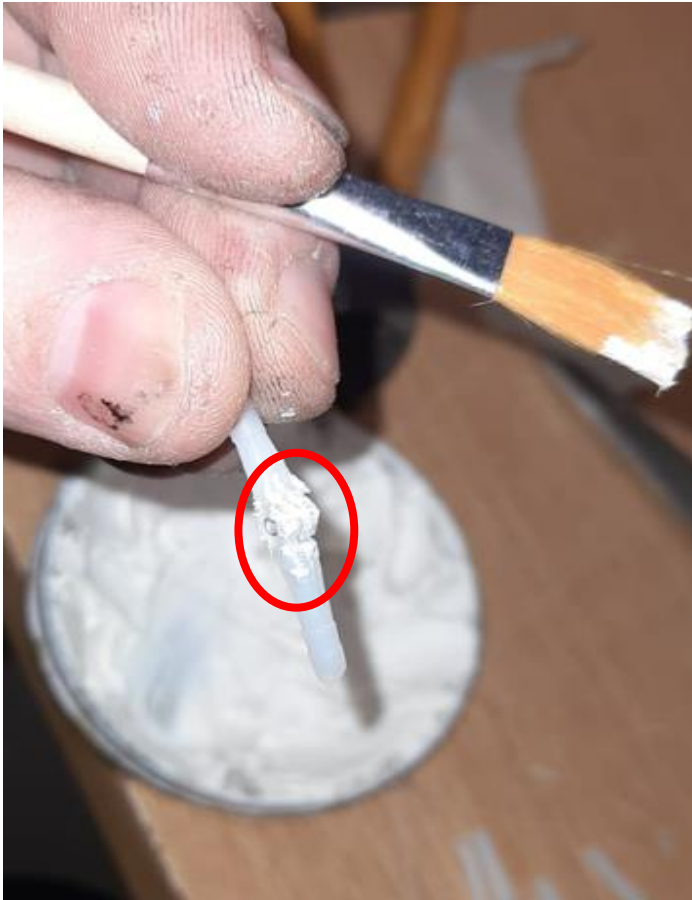
 use 50g/m² glasfiber or heatshrink foil for covering

canopy frame



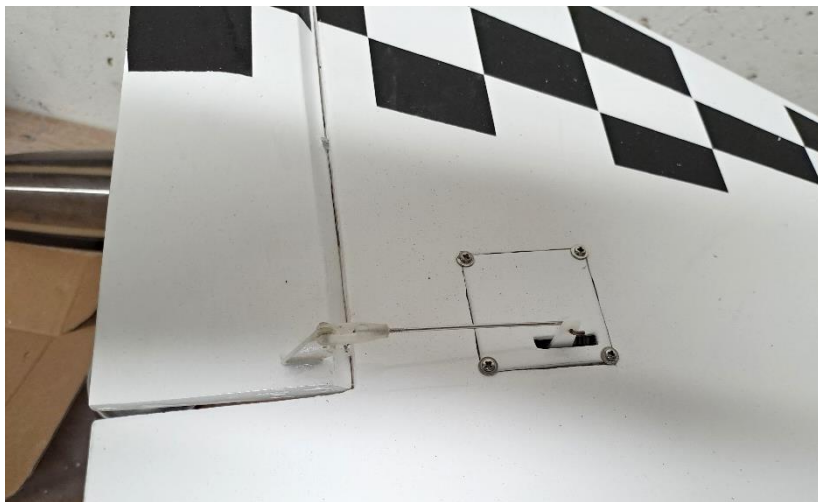
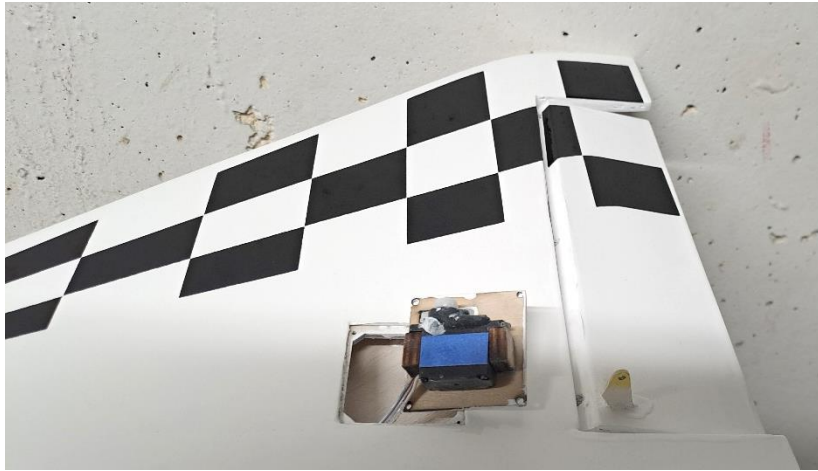
 align the canopy frame in installed condition when gluing


bonding the hinges

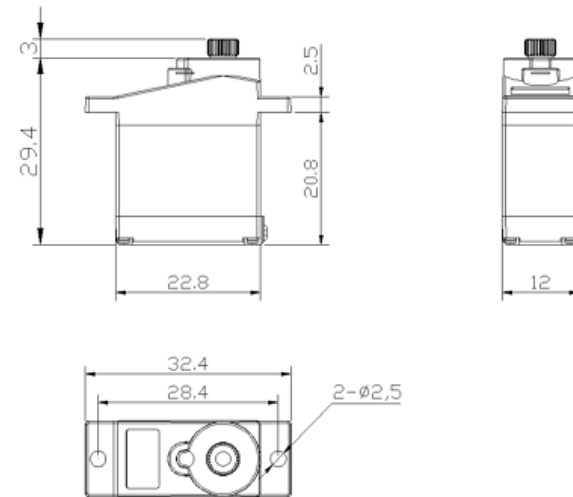


 use grease to protect the hinges from glue

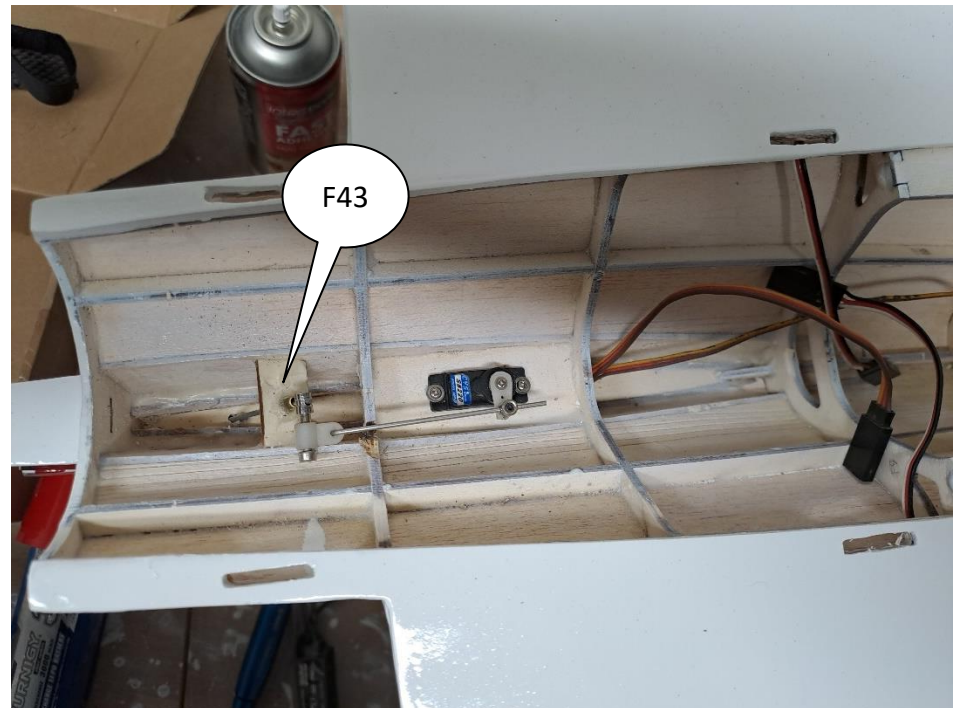
installation of the servos

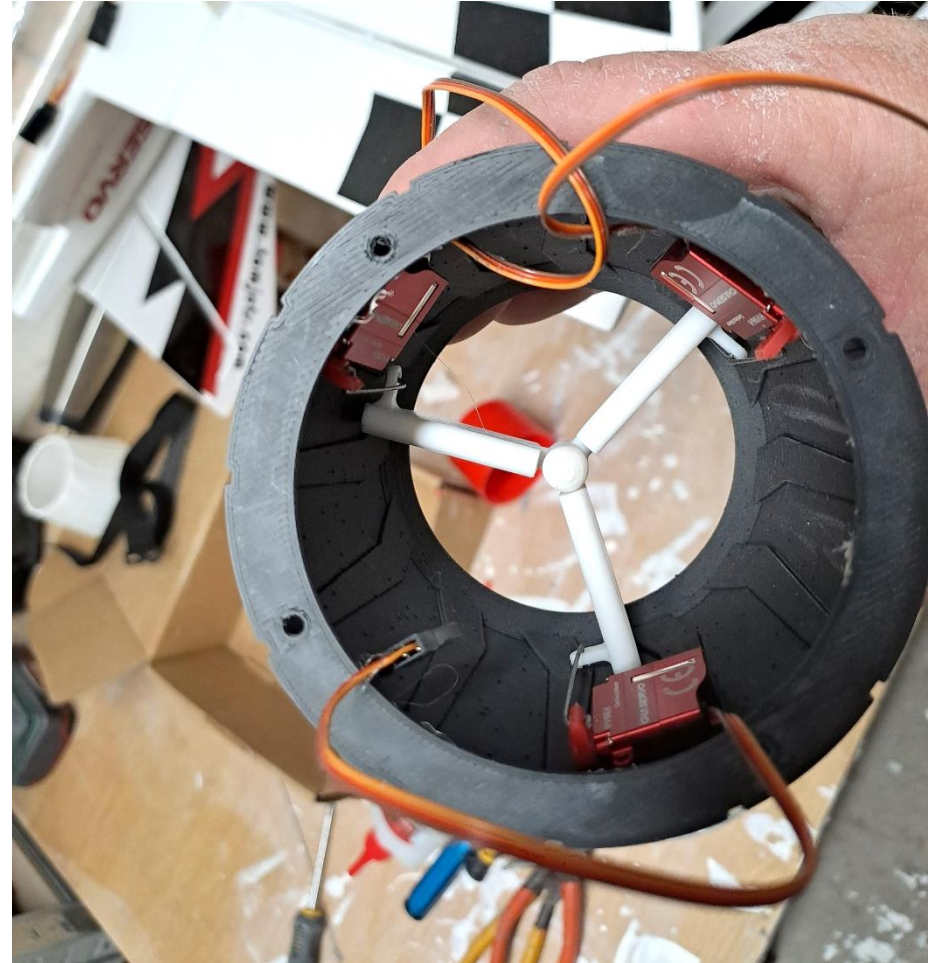


 recommended dimensions



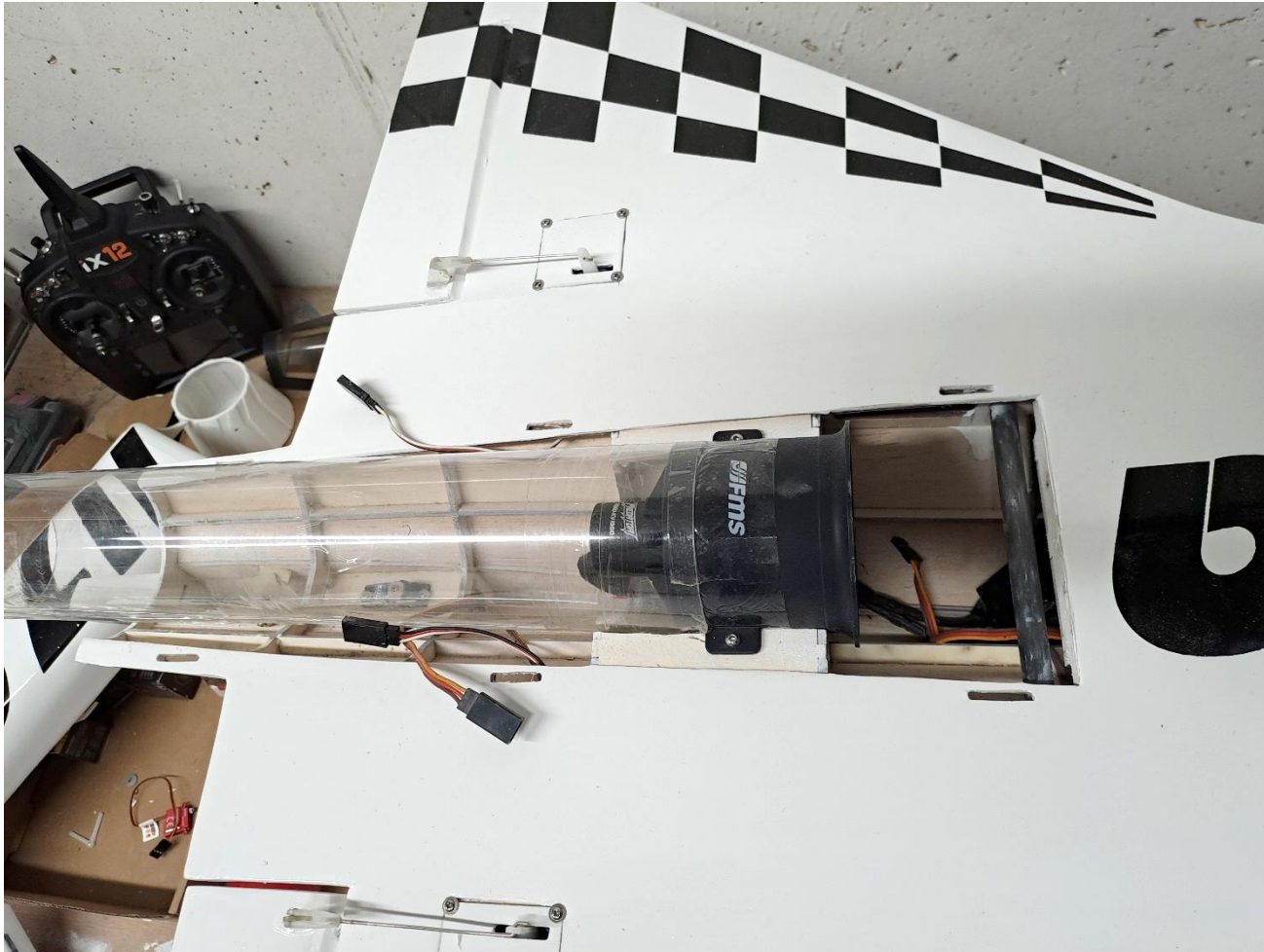
installation of the servos





i by choosing the right mounting position of your servos you can adapt the deflection of the vector blades according to the control surfaces, and therefore save channels on your transmitter

installing the edf



settings



elevator	± 20 mm + 30% expo
aileron	± 15 mm + 30% expo
Rudder	± 25 mm + 30% expo
CoG	7mm (behind the wood edge of the inlet)

