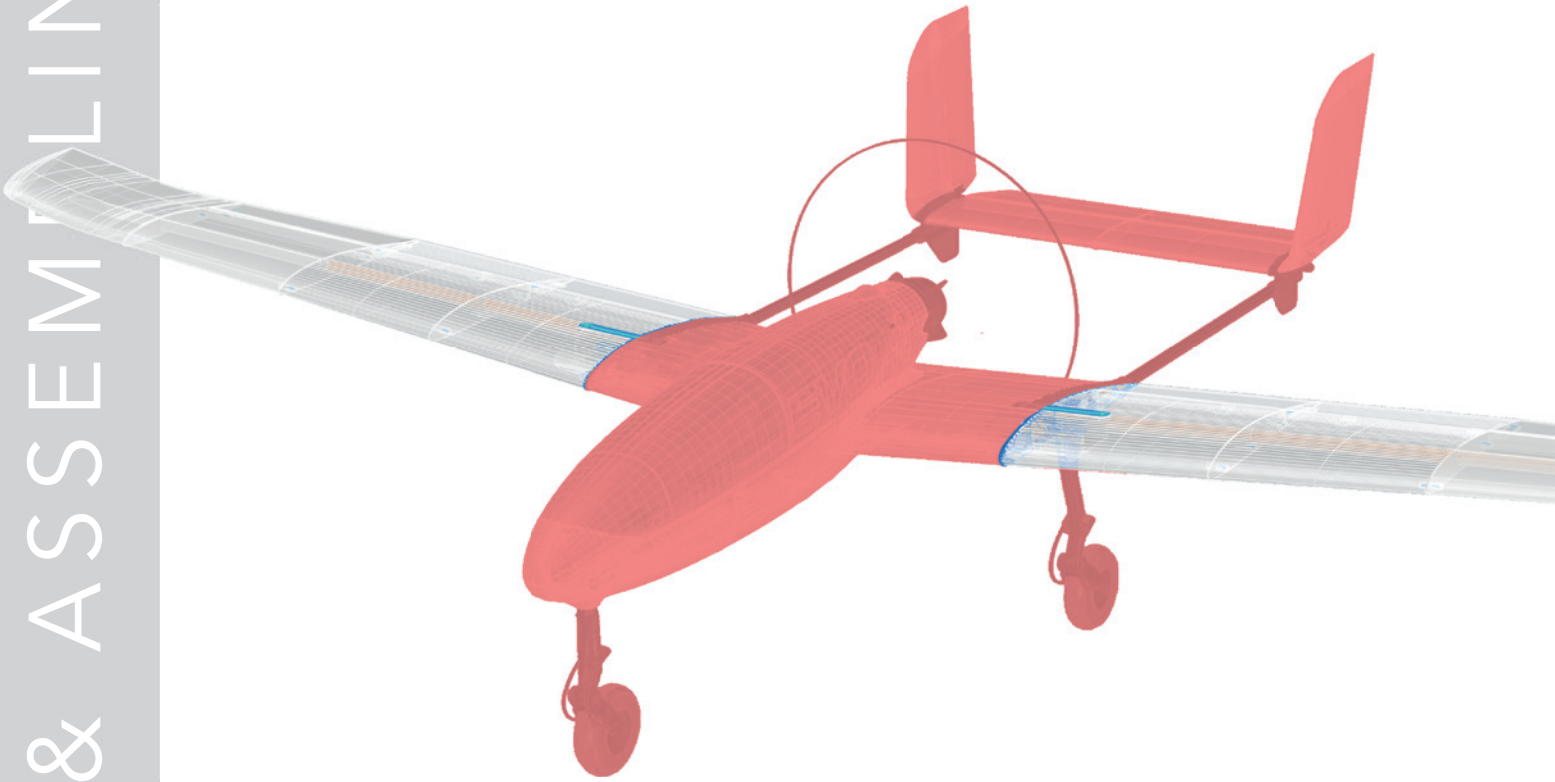
PRINTING & ASSEMBLING MANUAL

PLANE PRINT

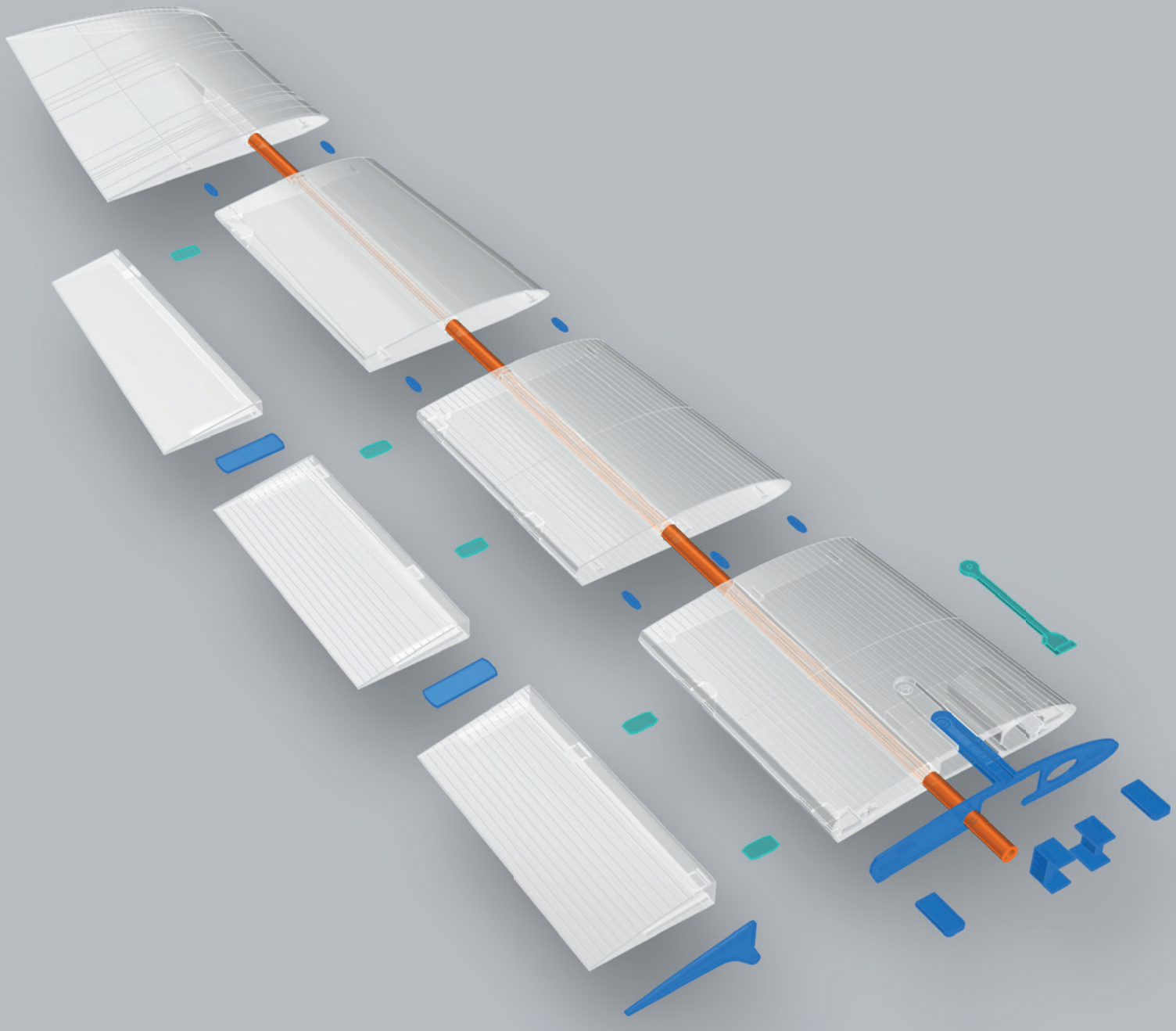


PLANE PRINT EVO

Additional package – **LONG WING**

PLANE PRINT EVO

Extension module – **LONG WING**



LW-PLA PLA TPU OTHER

Required accessoires – basic equipment

Links to recommended accessories can be found on
www.planeprint.com/evo (scroll down)

- **LW-PLA** foaming! **(cannot be replaced by PLA!)**, ~200 grams
- **Tough PLA**, ~20 grams
- **TPU A95 and LW-TPU Colorfabb VarioShore**, ~100 grams

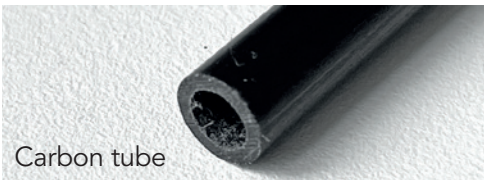
Materials

- CA super glue (liquid and liquid medium)
- CA activator
- Sortiment of Tapping screws Ø2mm
- Carbon tube Ø8*640mm, 2 pieces
- Steel wire Ø0.8*200mm

Tools

- Metal saw
- Screw driver


Tapping screws Ø2mm


Carbon tube

FAIR DATA USE

The development of a complex, airworthy RC flight model to express on any standard 3D printer is a very extensive process. **Therefore, we appeal to your fairness not to forward the STL data you have acquired to third parties.**

Thank you for your understanding and have fun with your PLANEPRINT MODEL!

Printing the parts – Printing profiles

This manual is constantly being improved and supplemented, we recommend downloading the **latest version** from our website **before building**.

To print all **PLANEPRINT** models **you need to set some basic profiles in Cura**
(If you use another slicer, please set the same parameters).

You can find the description at www.planeprint.com/print

For this model you need the following profile:

P2 P4 P5

PROFILE P2_Hollowbody Tough PLA or PLA

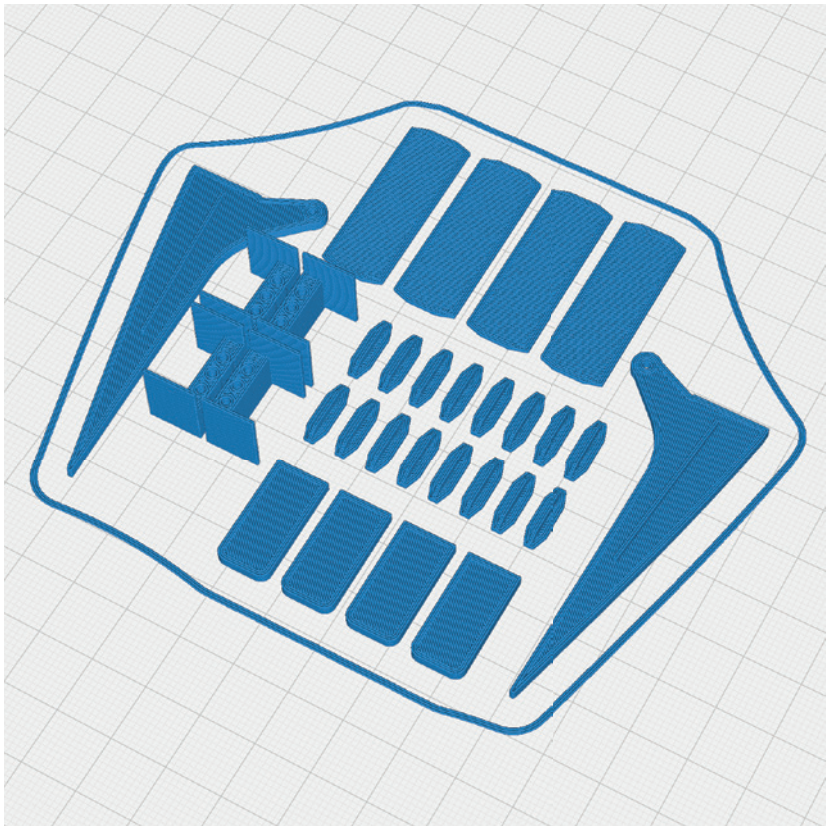
The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P2_Parts_elw.stl

MATERIAL PLA, Weight: ~ 9 g

ADDITIONAL SETTINGS

None required

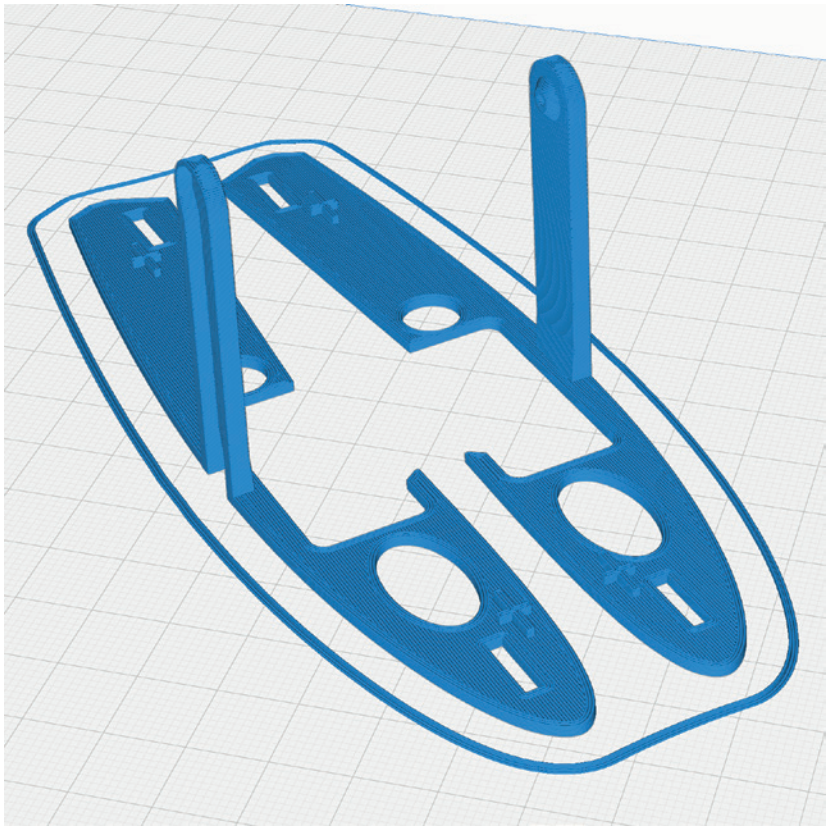


P2_PROT Wing_evo.stl

MATERIAL PLA, Weight: ~ 7 g

ADDITIONAL SETTINGS

None required



PROFILE P4_Flex LW TPU (A95/VarioShore)

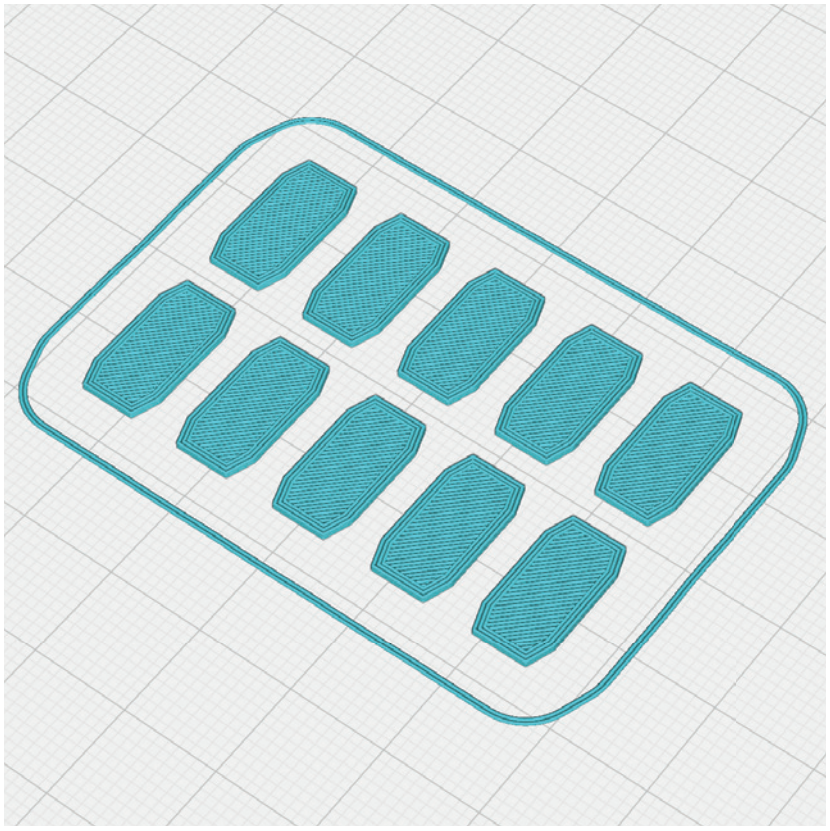
The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!

P4_Hinges_elw.stl

MATERIAL TPU, Weight: ~ 1 g

ADDITIONAL SETTINGS

None required



P4_Wing belts_evo.stl

MATERIAL TPU, Weight: ~ 1 g

ADDITIONAL SETTINGS

None required

PROFILE P5_Gyroid LW-PLA (foaming)!

The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!
It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

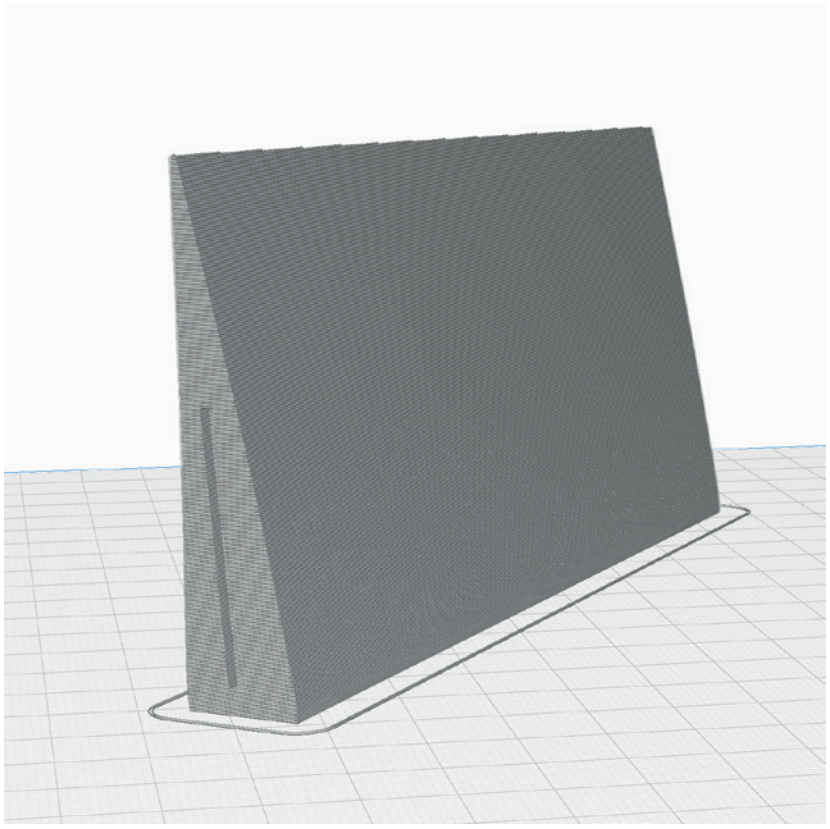
P5_AIL L1_evo.stl and P5_AIL R1_evo.stl

MATERIAL LW PLA, Weight: ~ 8 g

TIME ~ 1 hour 20 minutes

ADDITIONAL SETTINGS

None required



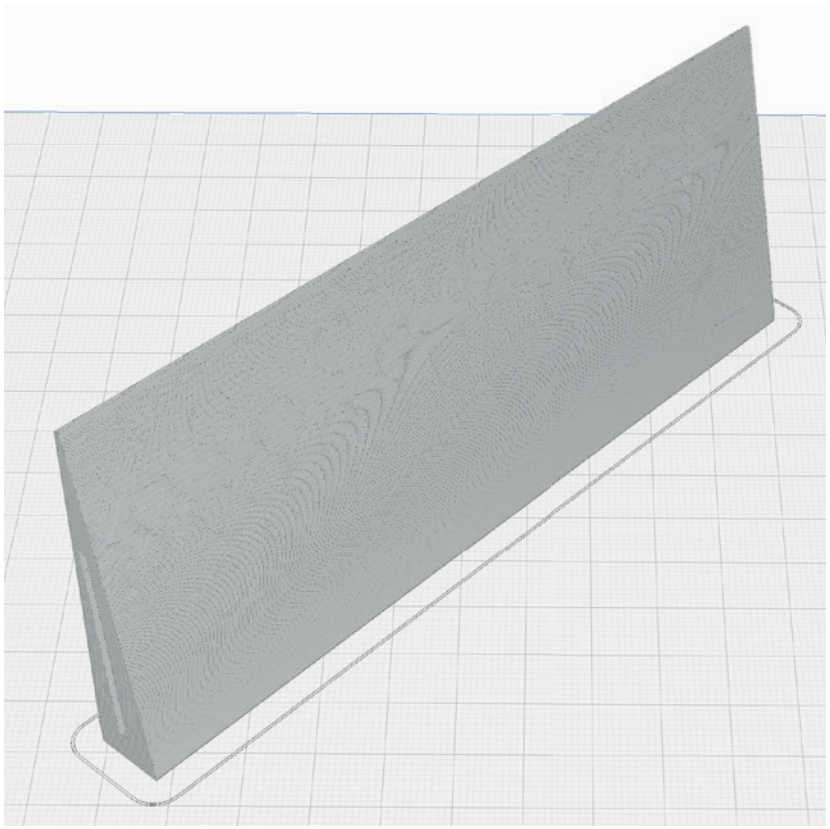
P5_AIL L2_elw.stl and P5_AIL R2_elw.stl

MATERIAL LW PLA, Weight: ~ 7 g

TIME ~ 1 hour

ADDITIONAL SETTINGS

None required



PROFILE P5_Gyroid LW-PLA (foaming)!

The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!
It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

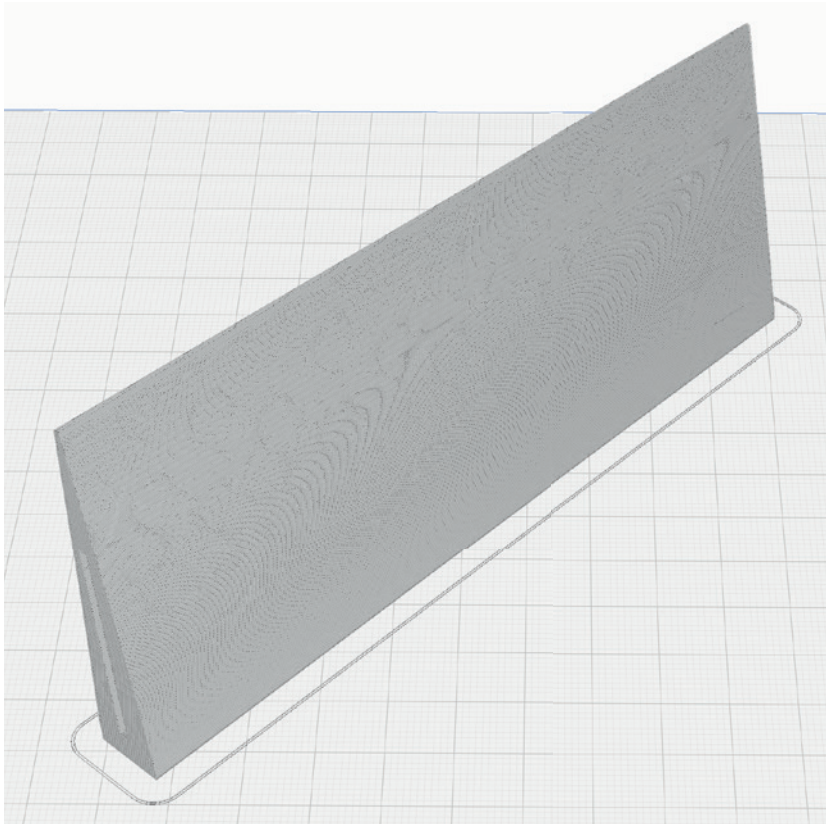
P5_AIL L3_elw.stl and P5_AIL R3_elw.stl

MATERIAL LW PLA, Weight: ~ 6 g

TIME ~ 1 hour

ADDITIONAL SETTINGS

None required



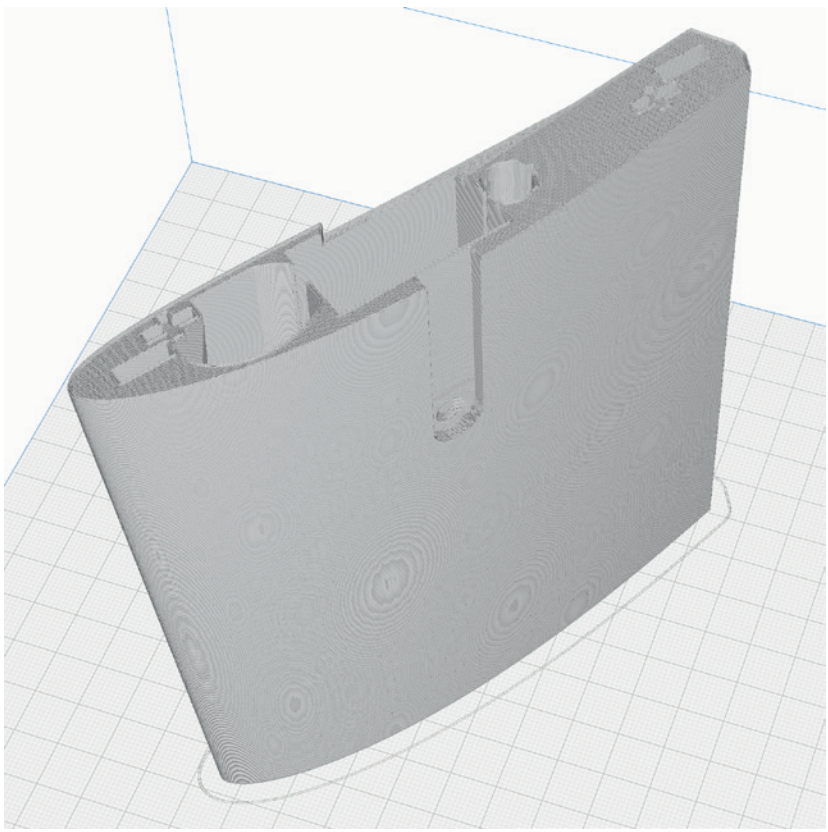
P5_Wing L1_evo.stl and P5_Wing R1_evo.stl

MATERIAL LW PLA, Weight: ~ 25 g

TIME ~ 5 hours

ADDITIONAL SETTINGS

None required



PROFILE P5_Gyroid LW-PLA (foaming)!

P5

The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!
It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

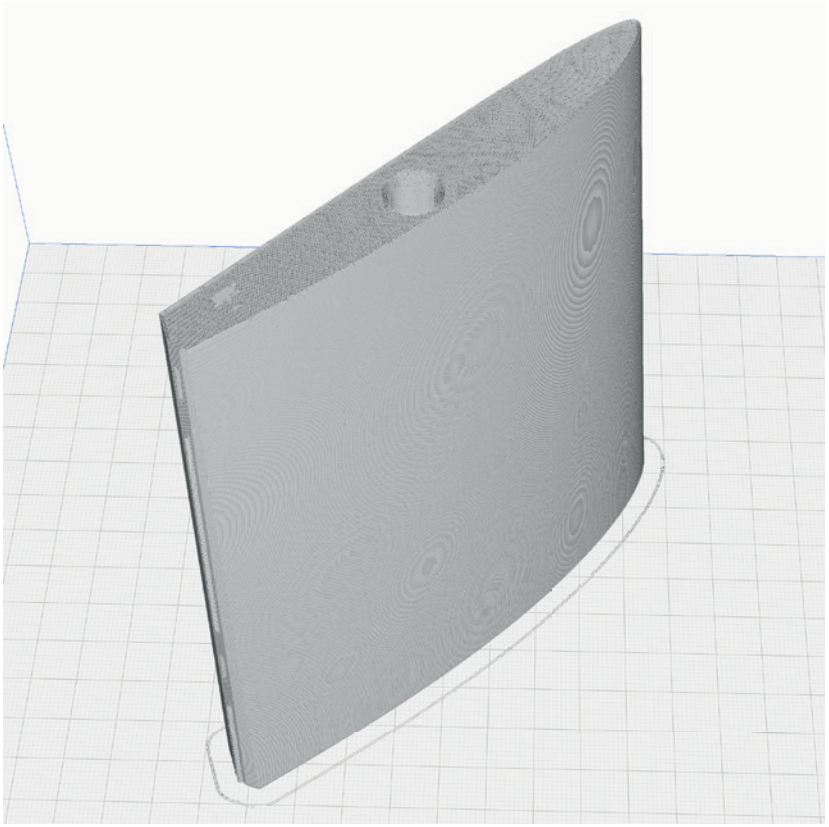
P5_Wing L2_elw.stl and P5_Wing R2_elw.stl

MATERIAL LW PLA, Weight: ~ 22 g

TIME ~ 3 hours 10 minutes

ADDITIONAL SETTINGS

None required



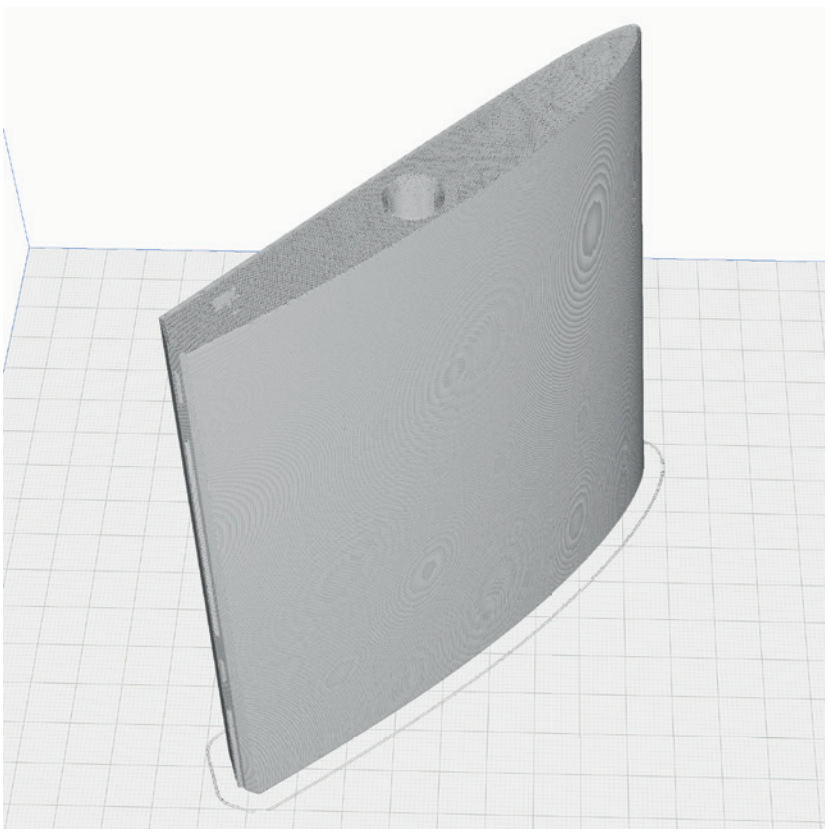
P5_Wing L3_elw.stl and P5_Wing R3_elw.stl

MATERIAL LW PLA, Weight: ~ 18 g

TIME ~ 3 hours 10 minutes

ADDITIONAL SETTINGS

None required



PROFILE P5_Gyroid LW-PLA (foaming)!

The information about the basic settings you can find on our website at PRINT.
Please note the additional settings for the individual parts!
It is essential to print these parts with foaming LW-PLA (pre-foamed is heavier)!

Basic settings for LW-PLA: Please follow the instructions in our **WINGTEST AND CALIBRATION TOOL** on our website for correct adjustment! Print only one STL at a time!

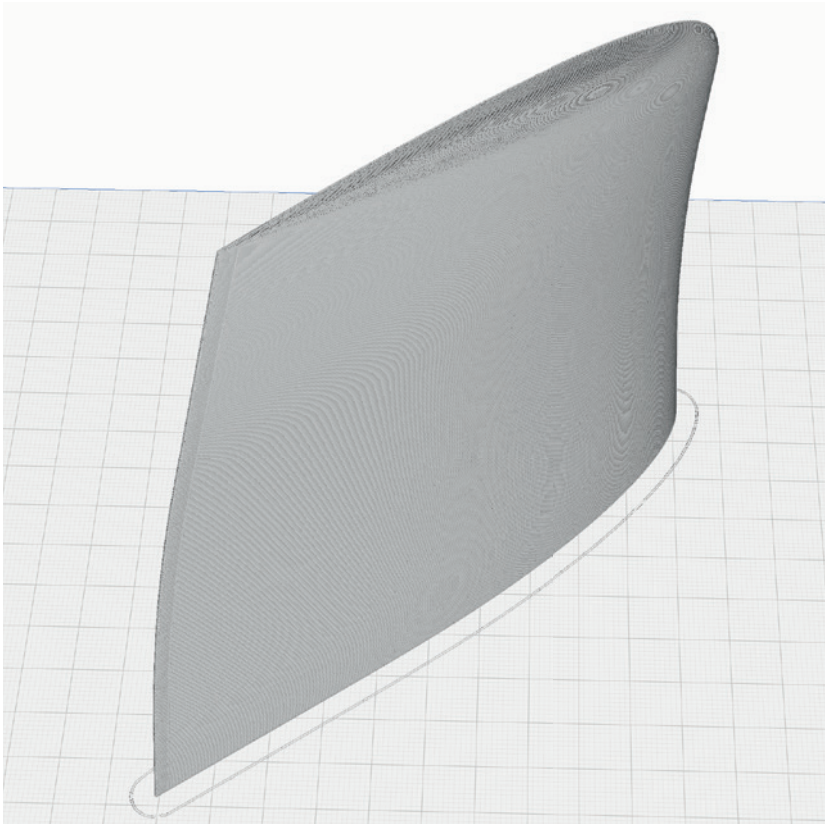
P5_Winglet L_elw.stl and P5_Winglet R_elw.stl

MATERIAL LW PLA, Weight: ~ 16 g

TIME ~ 3 hours

ADDITIONAL SETTINGS

None required

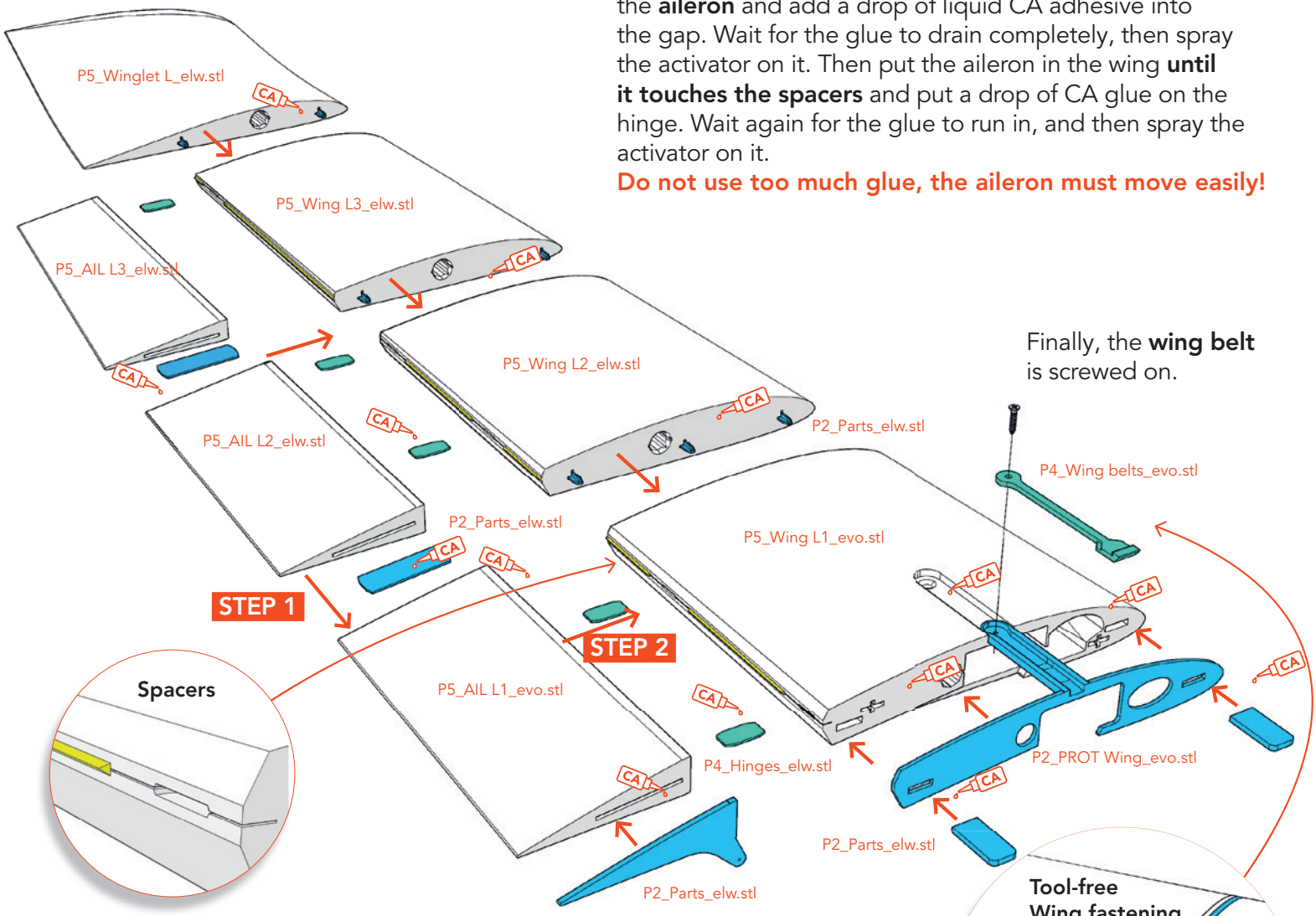


Wing assembly

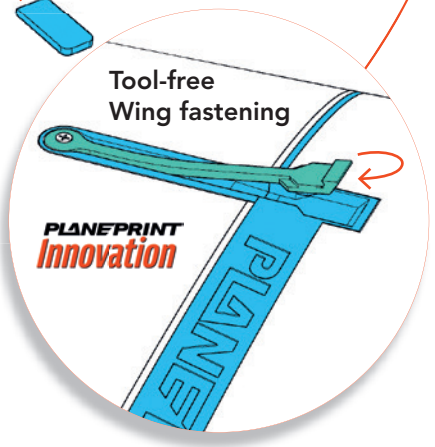
CA medium liquid

Installation the TPU Hinges: First insert the hinge into the **aileron** and add a drop of liquid CA adhesive into the gap. Wait for the glue to drain completely, then spray the activator on it. Then put the aileron in the wing **until it touches the spacers** and put a drop of CA glue on the hinge. Wait again for the glue to run in, and then spray the activator on it.

Do not use too much glue, the aileron must move easily!

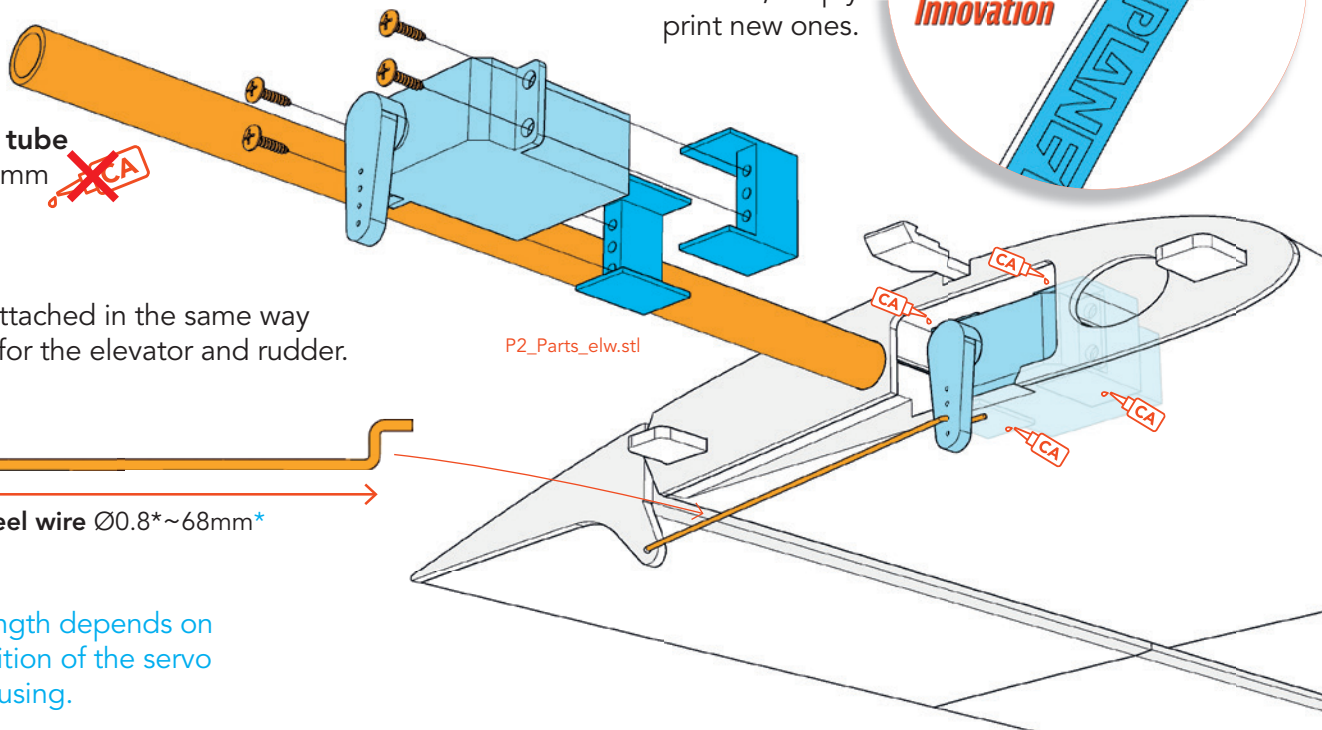


Finally, the **wing belt** is screwed on.



Aileron Servos

If the TPU belts become too loose over time, simply print new ones.



The servo is attached in the same way as the servos for the elevator and rudder.

*The exact length depends on the exact position of the servo lever you are using.

AGE RECOMMENDATION 14+

NOT FOR CHILDREN UNDER 14 YEARS.
THIS IS NOT A TOY!

The STL data (or data processed from it, such as G codes) must never be passed on to third parties!

The purchase of the STL does not authorize the production of models for third parties.

By using the download data, an RC model airplane, called „model" for short, can be manufactured using a 3D printer. As a user of this model, only you are responsible for safe operation that does not endanger you or others, or that does not damage the model or property of others.

PLANEPRINT.com assumes no responsibility for damage to persons and property caused by pressure, transport or use of the product. Filaments, printing supplies, hardware or consumables that can not be used after faulty 3D printing will not be replaced by PLANEPRINT.com in any way.

When operating, always keep a safe distance from your model in all directions to avoid collisions and injuries.

This model is controlled by a radio signal. Radio signals can be disturbed from outside without being able to influence it. Interference can lead to a temporary loss of control.

Always operate your model on open terrains, far from cars, traffic and people.

Always follow the instructions and warnings for this product and any optional accessories (servos, receivers, motors, propellers, chargers, rechargeable batteries, etc.) carefully.

Keep all chemicals, small parts and electrical components out of the reach of children.

Avoid water contact with all components that are not specially designed and protected. Moisture damages the electronics.

Never take an item of the model or accessory in your mouth as this can lead to severe injuries or even death.

Never operate your model with low batteries in the transmitter or model.

Always keep the model in view and under control.
Use only fully charged batteries.

Always keep the transmitter switched on when the model is switched on.

Always remove the battery before disassembling the model.

Keep moving parts clean and dry at all times.

Always allow the parts to cool before touching them.

Always remove the battery after use.

Make sure that the Failsafe is properly set before the flight.

Never operate the model with damaged wiring.

Never touch moving parts.

We develop our models to the best of our knowledge and belief. We accept no liability for consequential damage and injuries caused by improper use or incorrectly printed parts. **Please be careful when handling motors, batteries and propellers** and only move your model with insurance and in approved places!

PLANE PRINT