

Flying wing RC fully printed 80cm wingspan



Instruction manual

Related to Thingiverse object

<http://www.thingiverse.com/thing:1659724>

PRELIMINARY

Hallo,

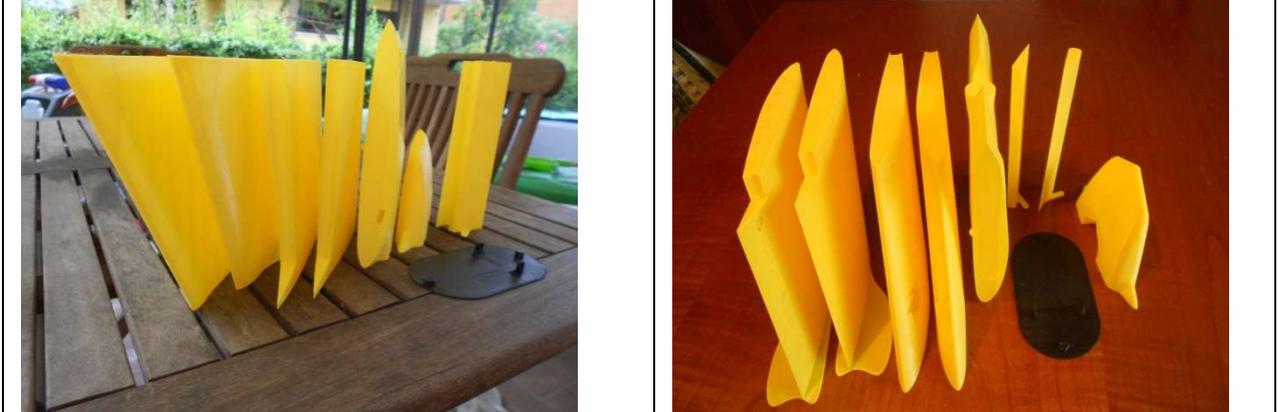
In this document you can find the instruction to assembly the flying wing published on Thingiverse by Carletto73. The model flew very well so you can print and fun in very short time.

The model works very well and is one of the first pure flying wing present today. In Italy for example I never saw something similar

Please reproduce and fly, and at the end let me know your comment

All you need is:

1)Plastics



Just 9 pieces including the canopy

2) Motor DYS BE1806-2300KV



or motor 20g with same fixation

3)Propeller 5x3



4) Esc 12A with BEC 10g weight



With BEC to supply servos and receiver

5) 2x servos 3,7g



6) Receiver 3ch



7) Battery 3s 450mAh



8) 4x 20mm steel rod 1mm diameter



9) 2x servo/rod connection



10) CA glue

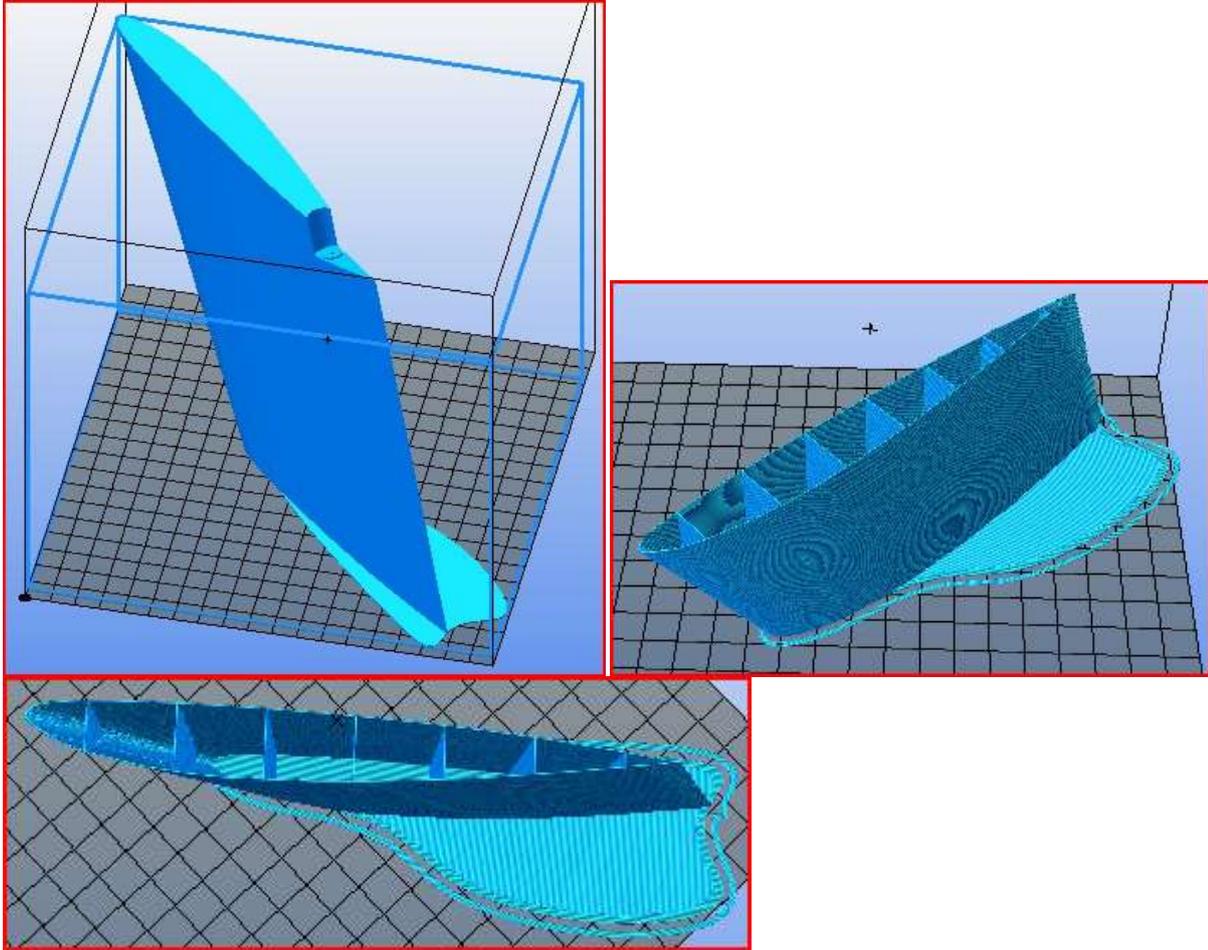


11) 4x magnets 1x5mm for canopy retention



Printing setup

A.External



Statistiche stampa

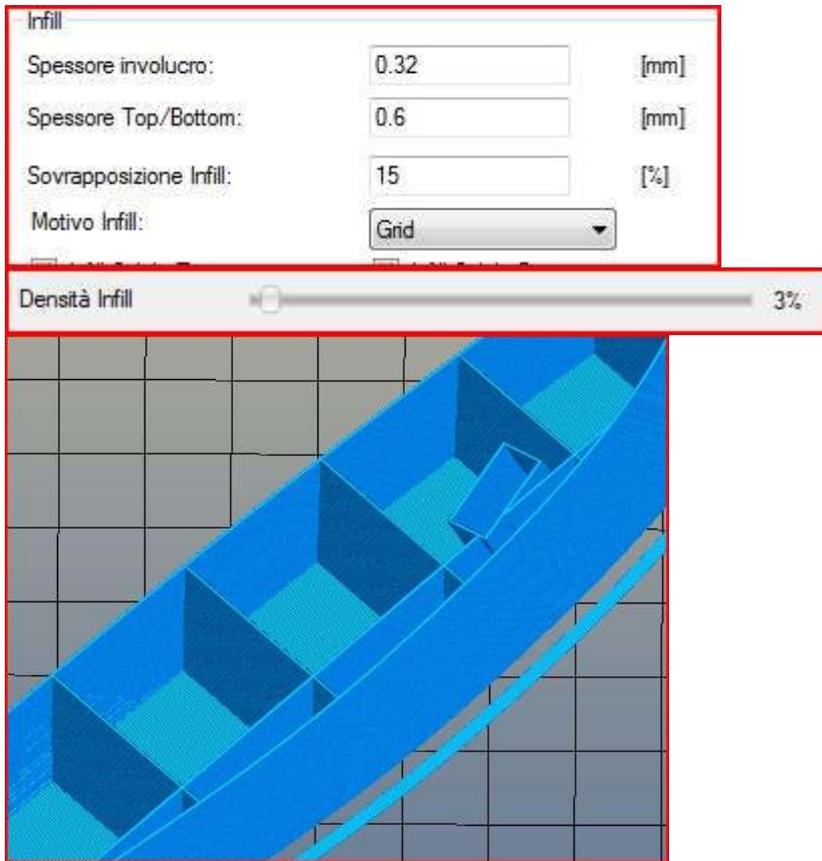
Tempo Stimato di Stampa: 3h:22m:9s
Numero di Layers: 800
Linee totali: 91172
Filamento necessario: 10284 mm

Densità Infill 3%



Velocità e Qualità	Strutture	Estrusione	G-Code	Avanzate
Infill				
Spessore involucro:	0.32	[mm]		
Spessore Top/Bottom:	0.6	[mm]		
Sovrapposizione Infill:	15	[%]		

B. Internal

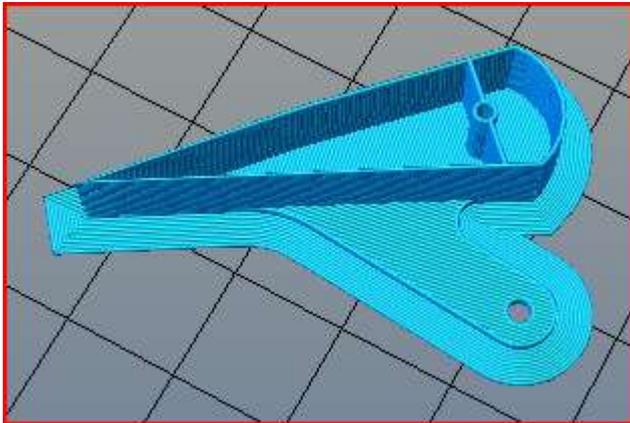


Please reduce to minimum the orizontal infill grid

Tempo Stimato di Stampa:	4h:14m:58s
Numero di Layers:	800
Linee totali:	160928
Filamento necessario:	13684 mm



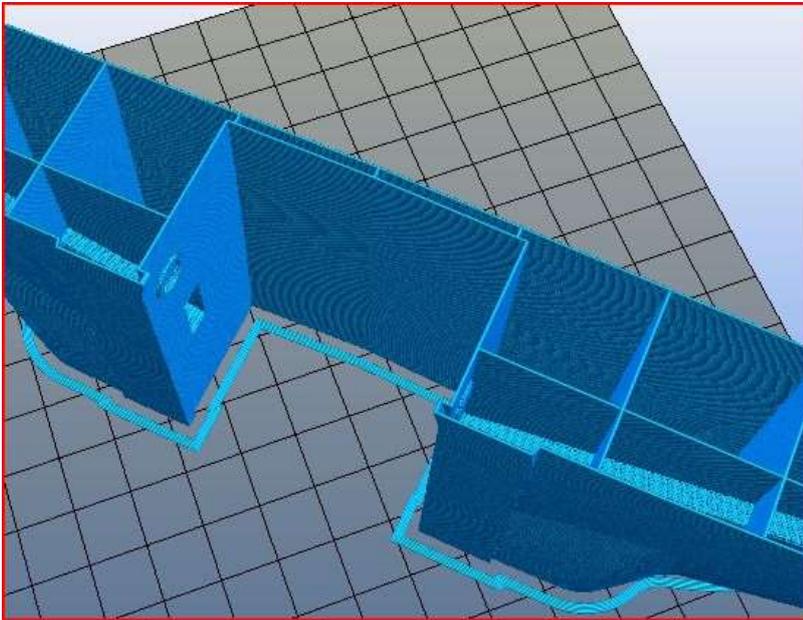
C. Aileron



Infill		
Spessore involucro:	<input type="text" value="0.32"/>	[mm]
Spessore Top/Bottom:	<input type="text" value="0.6"/>	[mm]
Sovrapposizione Infill:	<input type="text" value="15"/>	[%]
Motivo Infill:	<input type="text" value="Grid"/>	

Densità Infill	<input type="range" value="3%"/>	3%
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D.Rear



Infill		
Spessore involucro:	<input type="text" value="0.32"/>	[mm]
Spessore Top/Bottom:	<input type="text" value="0.6"/>	[mm]
Sovrapposizione Infill:	<input type="text" value="15"/>	[%]
Motivo Infill:	<input type="text" value="Grid"/>	
<input checked="" type="checkbox"/> Infill Solido Top	<input checked="" type="checkbox"/> Infill Solido Bottom	

Statistiche stampa

Tempo Stimato di Stampa:	5h:19m:12s
Numero di Layers:	944
Linee totali:	186413
Filamento necessario:	17015 mm

Densità Infill 3%

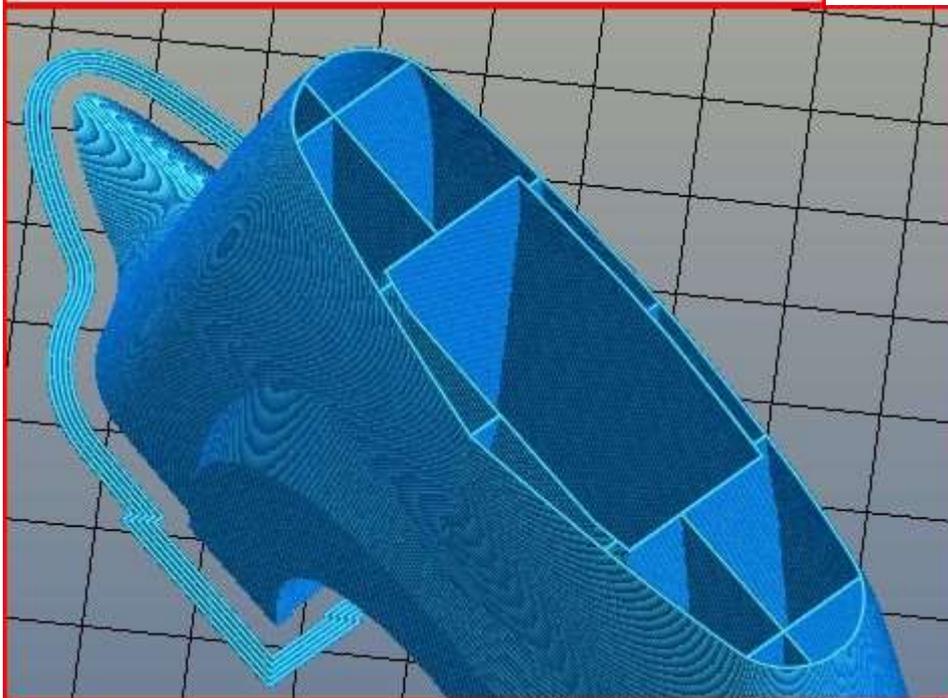


E. Front

Infill

Spessore involucro:	<input type="text" value="0.5"/>	[mm]
Spessore Top/Bottom:	<input type="text" value="0.6"/>	[mm]
Sovrapposizione Infill:	<input type="text" value="15"/>	[%]
Motivo Infill:	<input type="text" value="Grid"/>	
<input checked="" type="checkbox"/> Infill Solido Top	<input checked="" type="checkbox"/> Infill Solido Bottom	

Densità Infill 6%



Statistiche stampa

Tempo Stimato di Stampa:	1h:52m:40s
Numero di Layers:	505
Linee totali:	105403
Filamento necessario:	8734 mm



Assembly

In my case , sometime there are some error during the printing (just 4 or 5 holes). I don't know what depend, maybe my slicer is very old. If you know please let me know

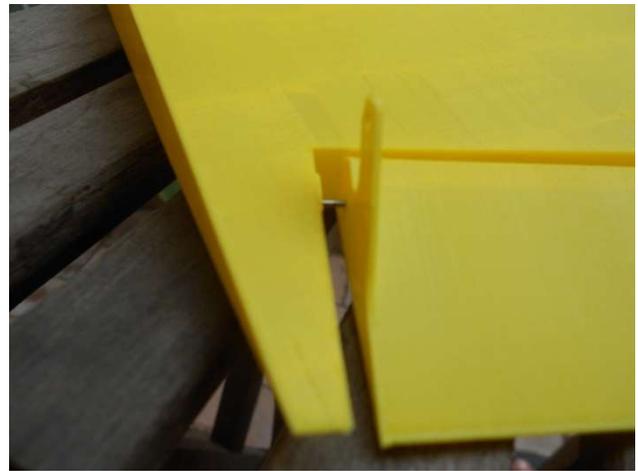


I correct this hole with CA glue and tape



This is the result

Aileron fixing



Before to glue the two pieces of wing, and fix in the midtime the aileron put the steel rod and check the aileron movement.

Glue



Use CA glue medium



That's all for now

As I can I will make an instruction more clear ☺

This is the result



Ciao

Carlo