

Pilatus B4

Presented by www.modellbauvideos.de

Wingspan: 76cm
My weight with right C.G.: 20g

Needed material:

- Depron or Selitron (3mm thick)
- some thread or another thin cord
- 1x electronic of an X-Twin
- adhesive tape
- UhuPor or similar
- 1 or 2 small coins for trimming

Instruction:



Cut out all parts as drawn in the plan. The parts of the body are needed twice (see picture)



The wing has to be scored at the upper side 1.7 cm from the leading edge.



Fold the wing a little bit downwards along the scored line to produce a leight profile. The wing is much stiffer after that.

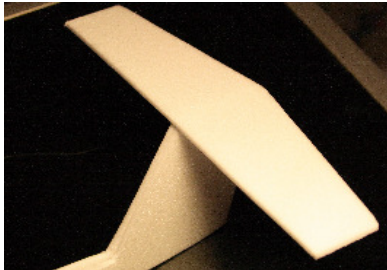


The two reinforcements for the body (in the plan: „Verstärkung“) have to be glued onto each other. After that, glue this onto the right position of one side frame. Keep sure that the side frame lays on a flat plane to avoid distortion.



Glue the second side frame onto the other side of the reinforcements. Keep sure that both sides lay congruent with each other.

After that glue the side frames at the end of the body together to reinforce the vertical tail. To ensure the right position, put a small piece of Depron under the one side of the body, one piece above the other side and weight it down (see picture).



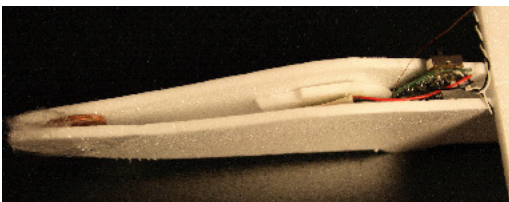
Glue the elevator onto the vertical tail as shown in the picture. Ensure an angle of 90° to the vertical tail by sanding the fin if necessary.



Glue to pieces of depron between the two side frames of the body in the range of the wing (The wing begins 10 cm away from the front of the body – see the small line in the plan)

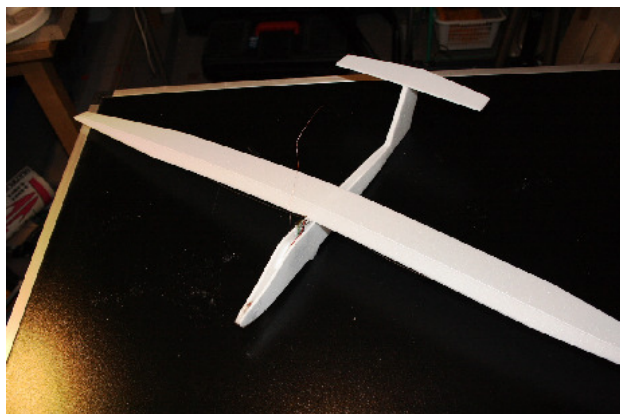


Glue the wing onto the body. Tape the thread on one end of the wing (see picture), put it under the body and glue the other end of the thread on the other end of the wing, so that the wingtips are able to fold slightly upwards during the flight. Otherwise it will be nearly impossible to turn.



Put the electronic in front of the wing into the body. The motors have to be glued under the wing about 10 cm away from the body. Put the accumulator to the front as far as possible. Press the two front tips of the body together and wrap them with tape. During that put a small weight between the tips (a coin or similar) so that the center of gravity is located in the bend of the wing.

Congratulation to your new B4!



Calibration:

If you have problems to fly turns, take a longer thread to increase the angle of the wing tips.

If the B4 oscillates from one side to the other all the time the thread is possibly too long.

If the B4 is pumping, add some weight in the front. If the B4 wants to fly downwards all the time, remove some weight.

Possible enhancements:

(2 of 3 removed due to translation problems ;))

Perhaps you can increase the turning rate of the B4 by putting the motors more in the direction of the wing tips. I chose the distance of 10 cm to the body due to the length of the wires.