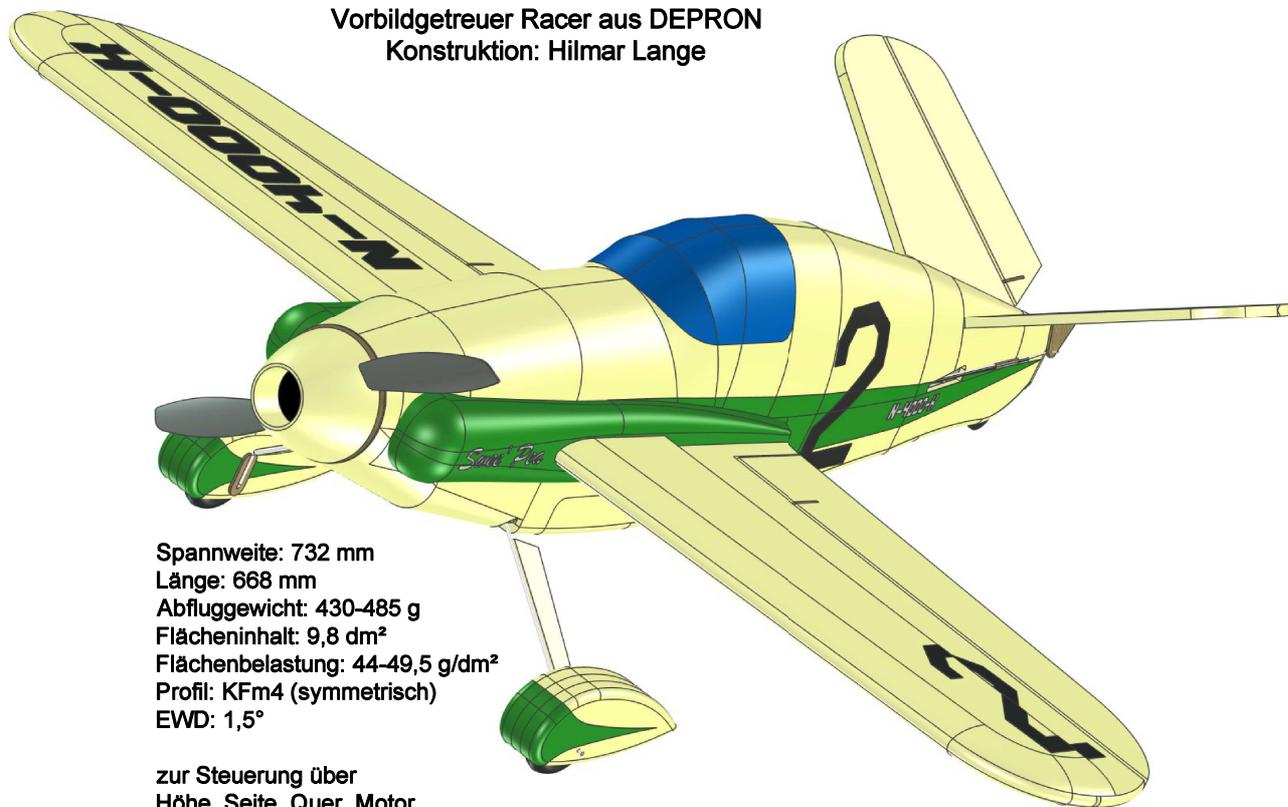


Art Chester's
Sweet Pea



Vorbildgetreuer Racer aus DEPRON
Konstruktion: Hilmar Lange



Spannweite: 732 mm
Länge: 668 mm
Abfluggewicht: 430-485 g
Flächeninhalt: 9,8 dm²
Flächenbelastung: 44-49,5 g/dm²
Profil: KfM4 (symmetrisch)
EWD: 1,5°

zur Steuerung über
Höhe, Seite, Quer, Motor
benötigte Mischer: V-Leitwerk

Benötigte Materialien:

- 3 mm Depron (1/2 Platte = 800 x 625 mm)
- 6 mm Depron (1 Platte = 1250 x 800 mm)
- 4 mm Pappelsperholz (110 x 110 mm)
- 1,5 mm Flugzeugsperholz (130 x 130 mm)
- 3 mm Balsa (100 x 250 mm)
- 3 mm CFK-Stab (3x 1 m)
- (oder 2x 1 m CFK-Stab ersetzen durch 1 m Kiefernleiste 6 x 3 mm)
- 0,8 mm Stahldraht (1 m)
- 2,0 mm Stahldraht (ca. 40 cm)
- Schrumpfschlauch Ø 4,8 mm (ca. 10 cm)
- Neodym-Rundmagnet Ø 3 mm x 3 mm (10 Stück)
- weiche Vlies-Scharniere (12 Stück)

- Spinner Ø 62 mm
- Propeller APC Slowfly 8 x 6"
- 4 Servos Hitec HS-40 (5 g)
- Empfänger mit 6 Kanälen
- Drehzahlsteller der 30-Ampere-Klasse
- BL-Motor BL Joker J2830-7 V3 KV1500 / 58 g (Bezug: Lindinger / Art.-Nr. 9748727)
- Akku LiPo 3S 850 - 1250 mAh
- 2 Schaumstoff-Leichträder, Ø 54 - 58 mm

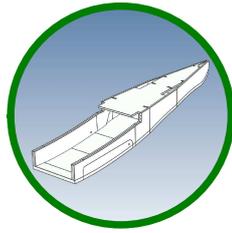


© 2021 FlugModell

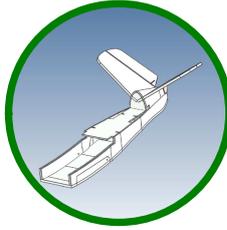
FlugModell-Downloadpläne sind Bestandteil des Magazins und nur für private Zwecke zu nutzen. Für die gewerbliche Herstellung der Bauplanmodelle oder von Teilen davon ist eine Genehmigung durch den Verlag Wellhausen & Marquardt Medien erforderlich.



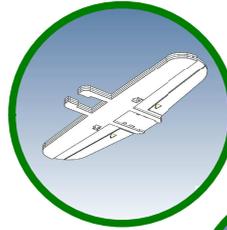
Seite 3



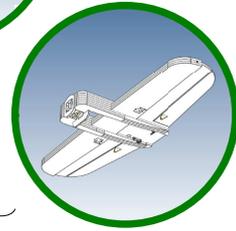
Seite 5



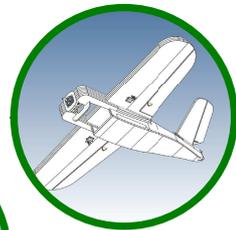
Seite 9



Seite 10



Seite 21



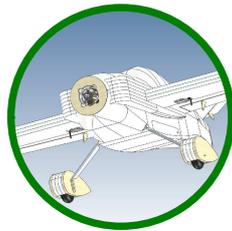
Seite 23



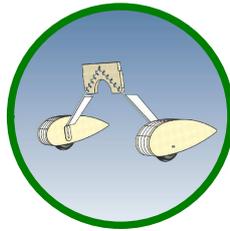
Explosionsdarstellung
im 3D-Viewer!



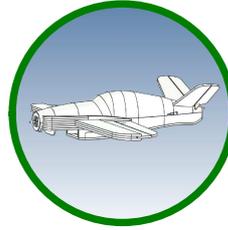
Seite 35



Seite 33

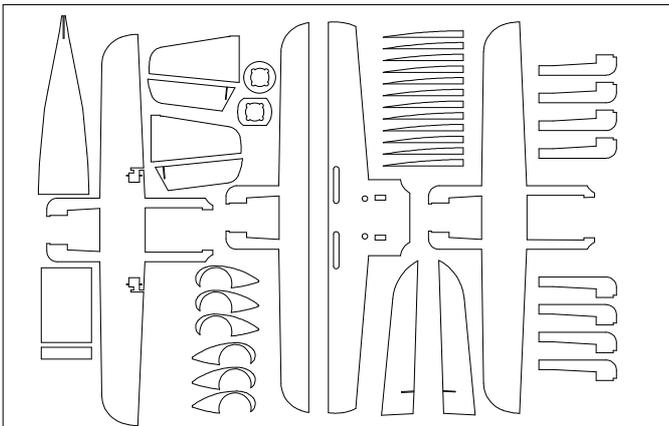


Seite 31

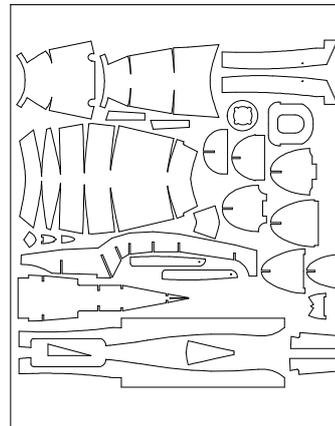


Seite 24

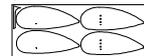
6 mm Depron (1250 x 800 mm = 1 Platte)



3 mm Depron (800 x 625 mm = 1/2 Platte)



3mm Balsa (100 x 250 mm)



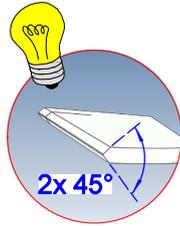
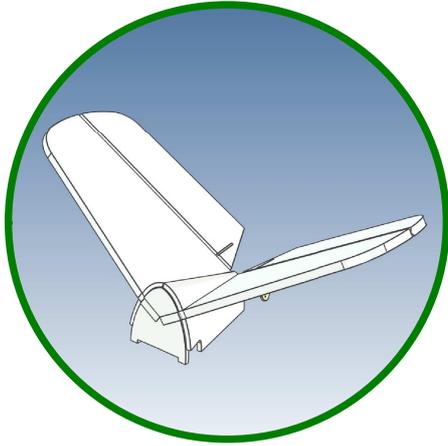
4 mm Pappelsperholz (110 x 110 mm)



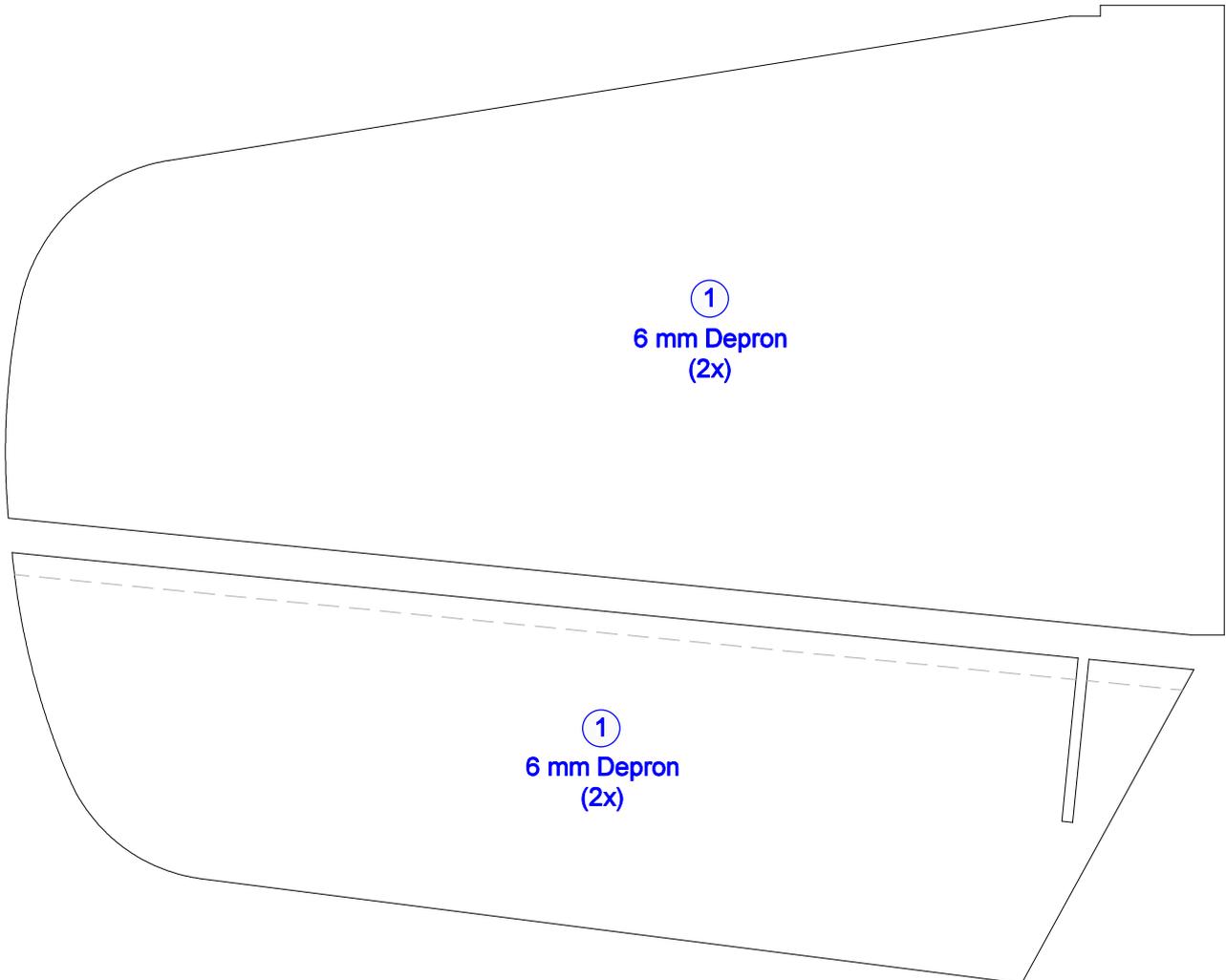
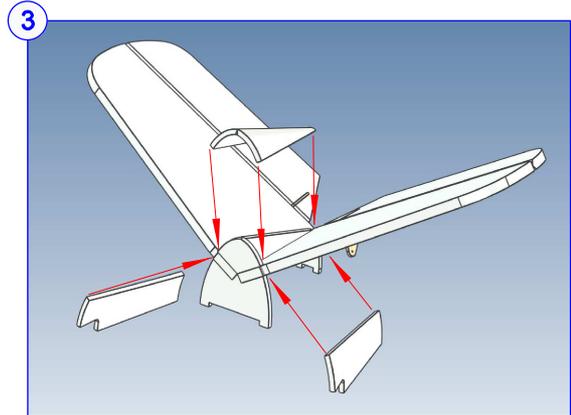
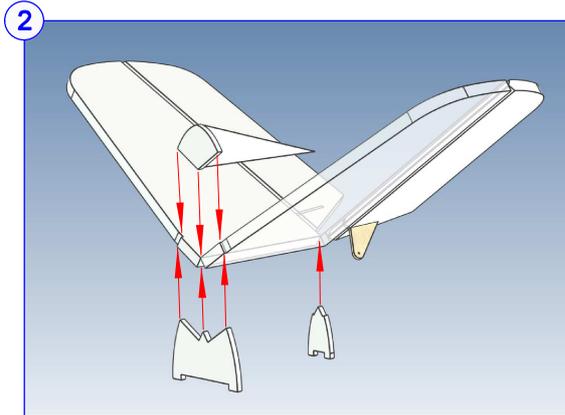
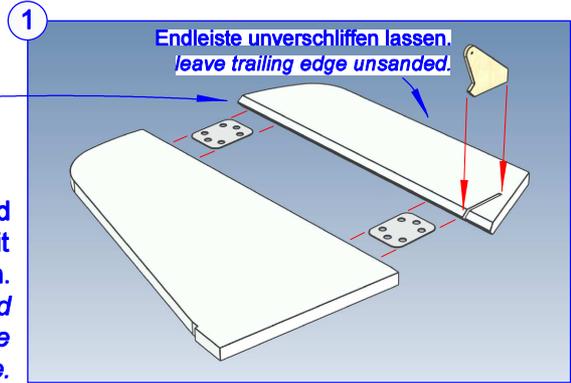
1,5 mm Flugzeug-sperholz (130 x 130 mm)

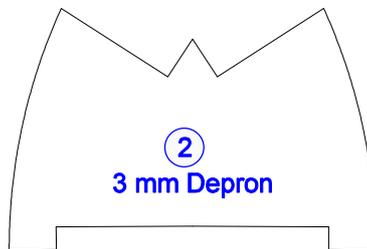
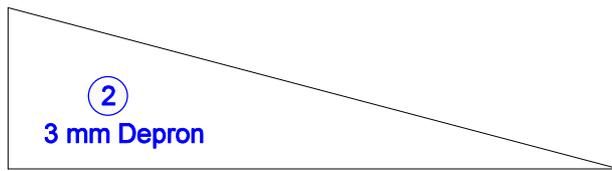


Die abgebildeten 2D-Daten gibt es als DXF unter www.lange-flugzeit.de
The 2D data like shown above is available as DXF at www.lange-flugzeit.de

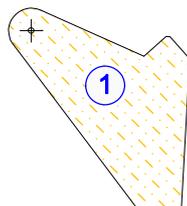


Vliesscharniere und
Ruderhörner mit
Weißleim einsetzen.
insert CA hinges and
control horns with white
glue.

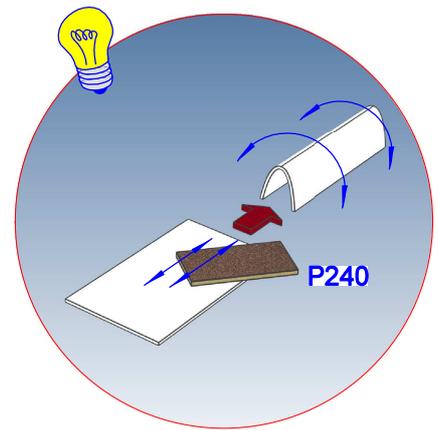
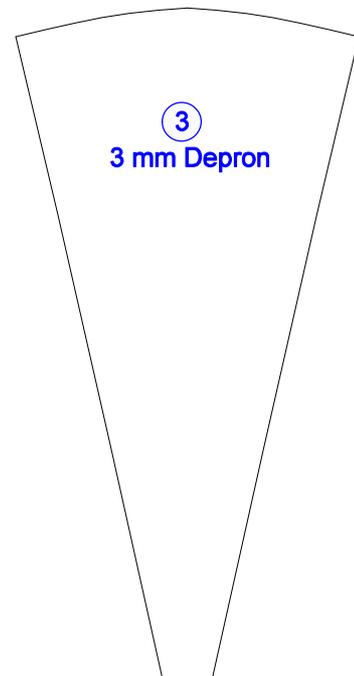
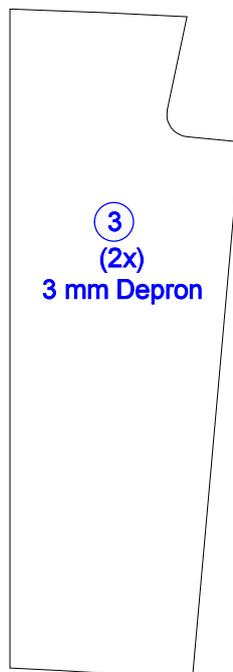




1,5 mm
Flugzeugsperrholz
(2x)

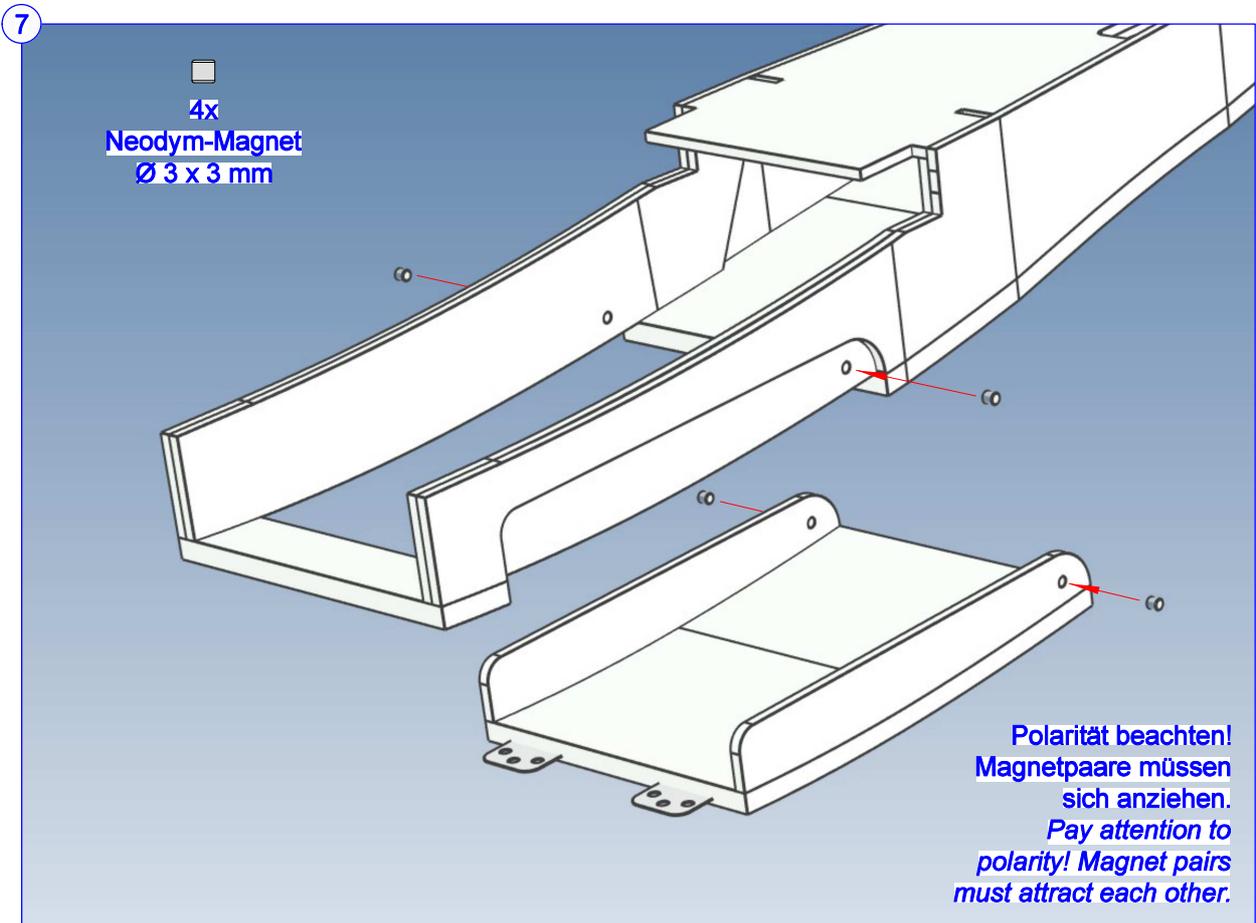
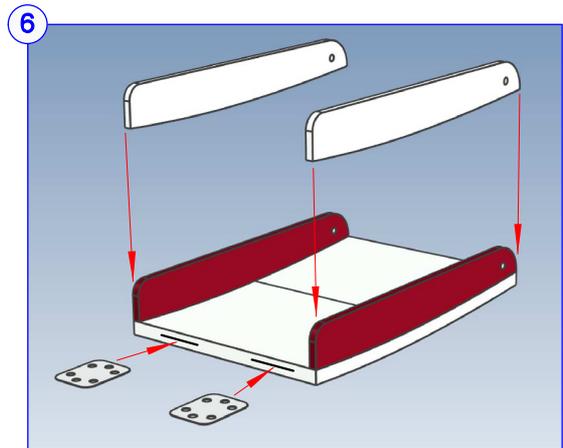
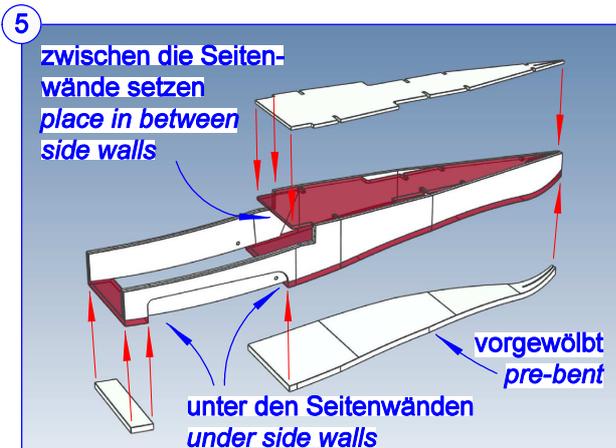
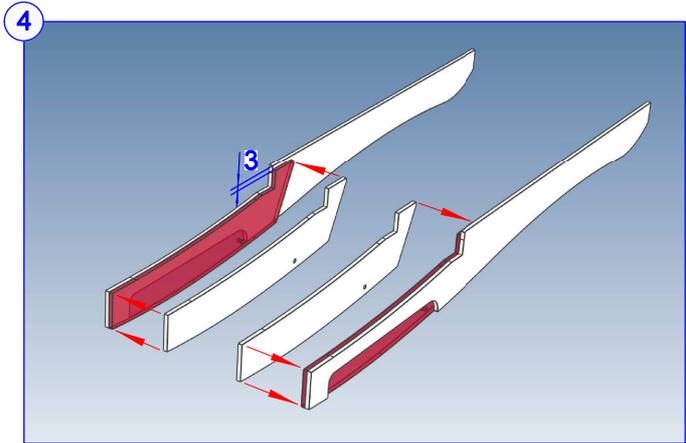
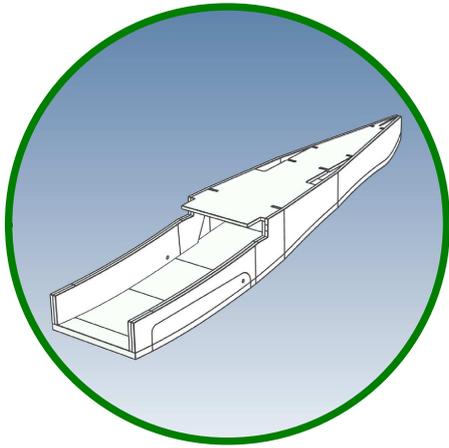


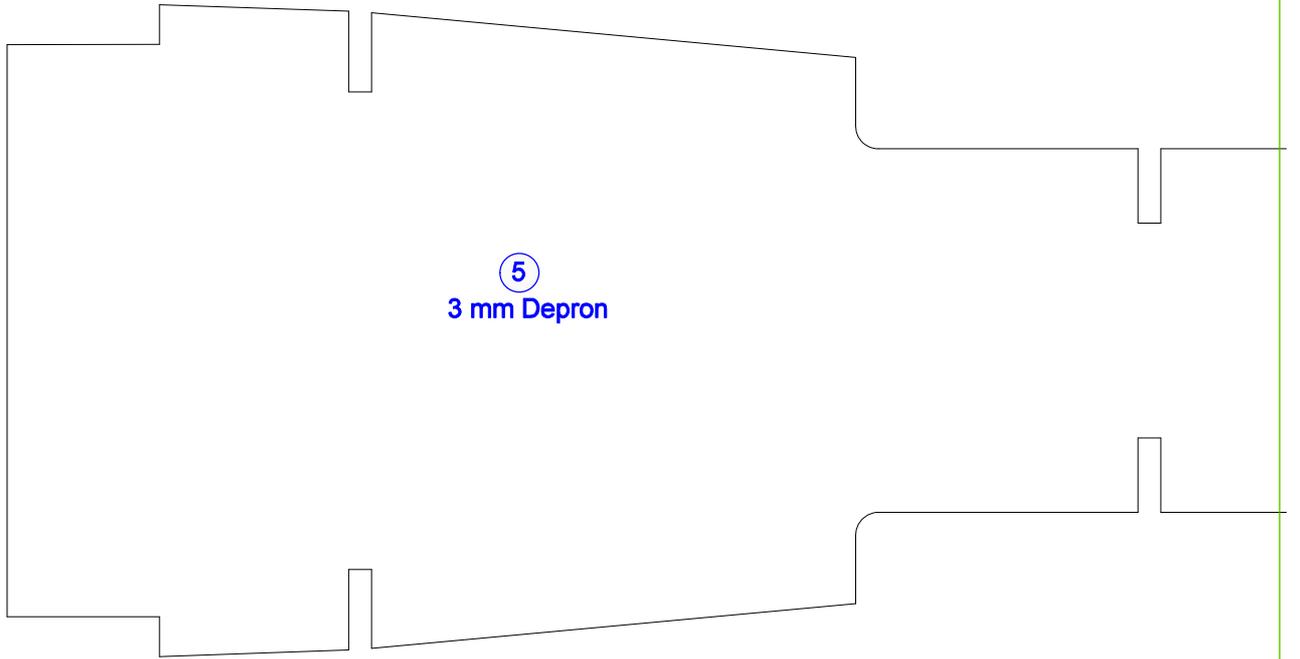
Das Ruderhorn wird
insgesamt 4x identisch
benötigt (vgl. S. 14).
*The control horn is required
four times in total (see p. 14).*



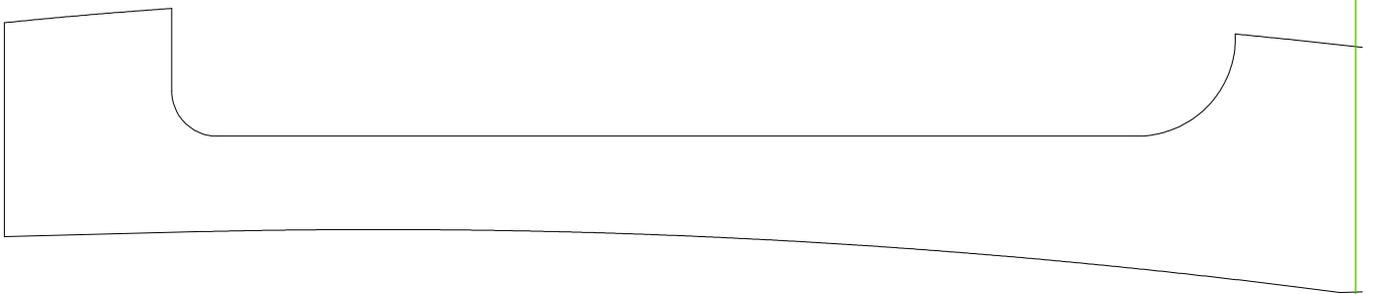
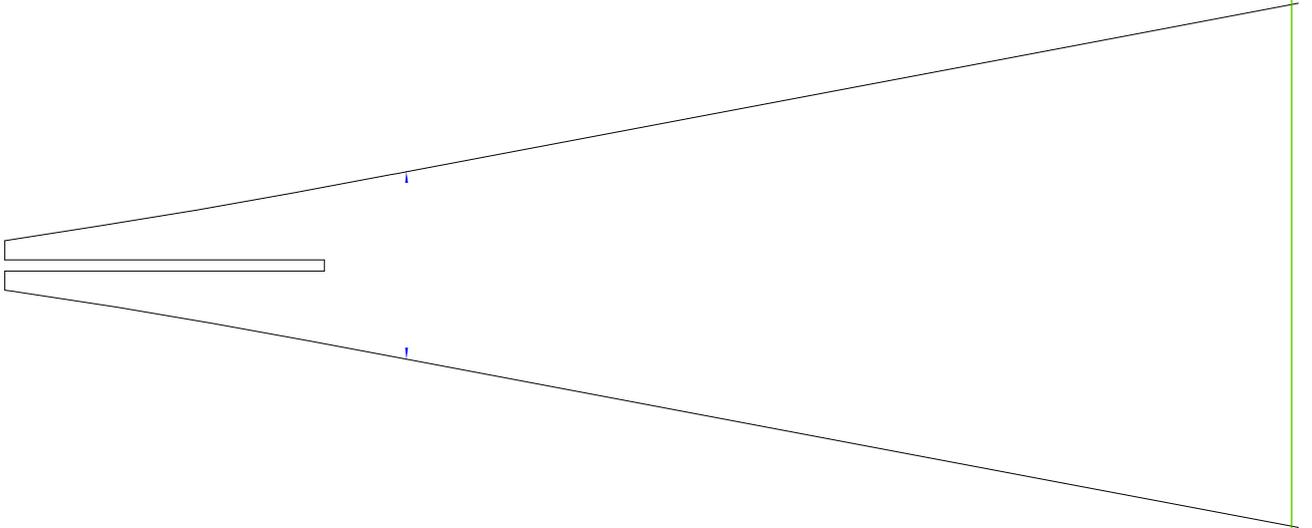
zu biegender Teile vorher
beidseitig matt schleifen!

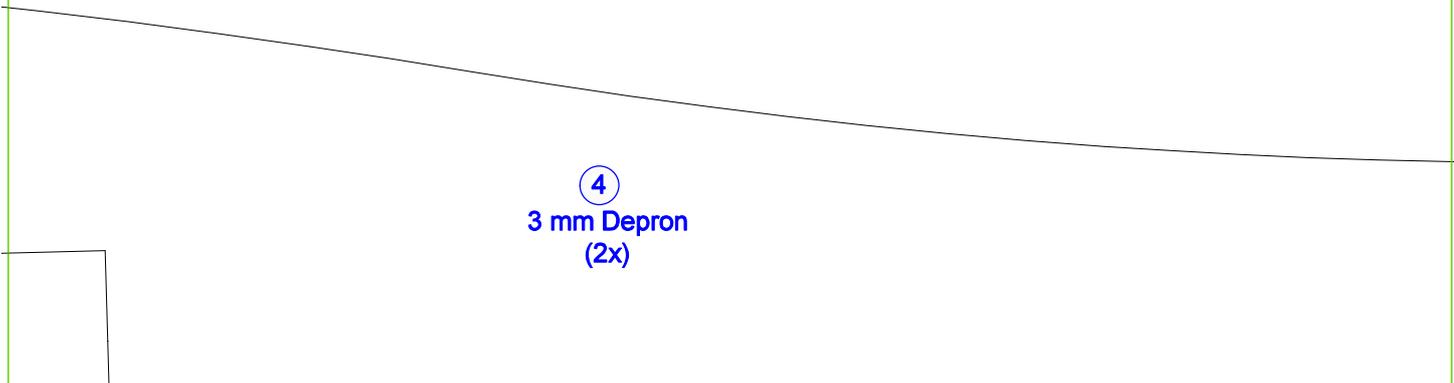
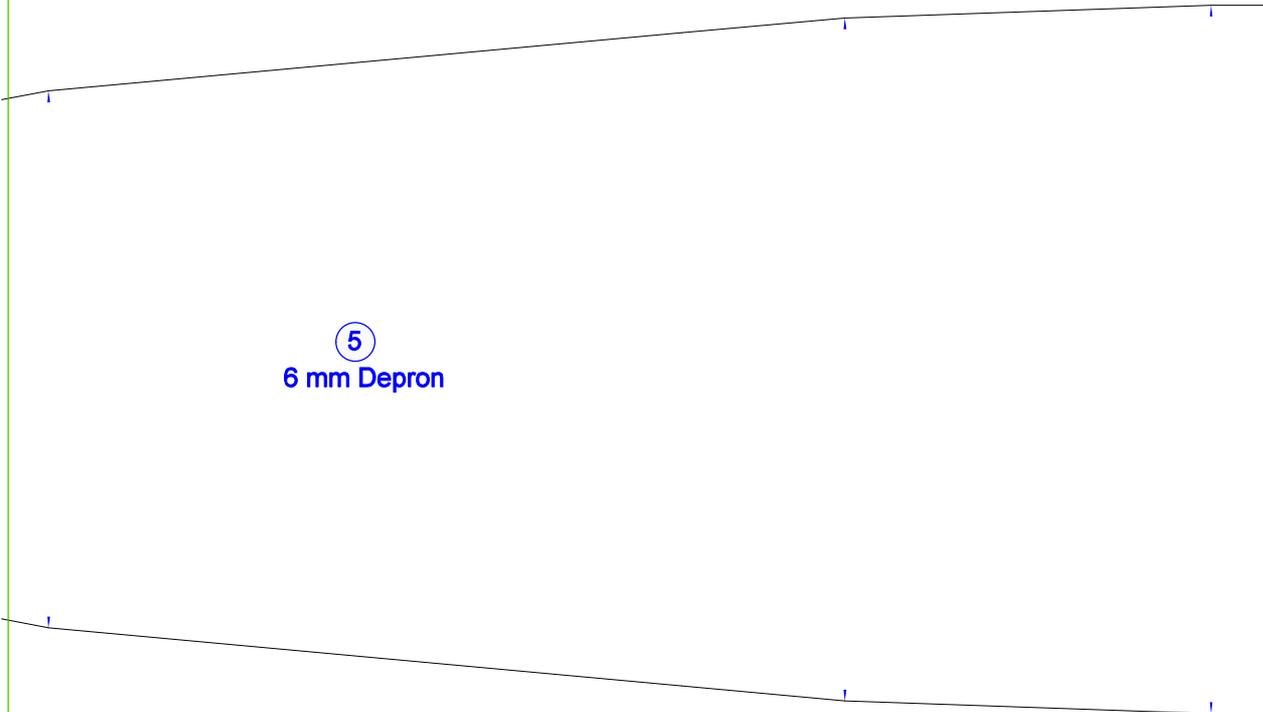
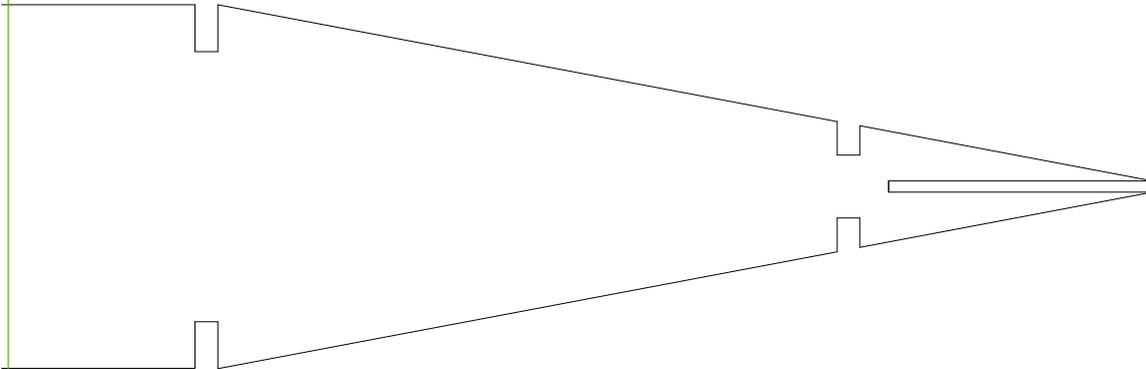
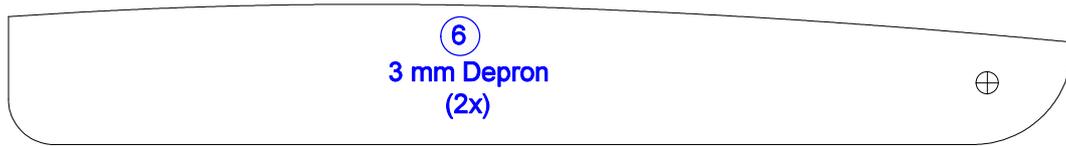
*Sand the parts to be bent to a
matt finish on both sides
beforehand!*

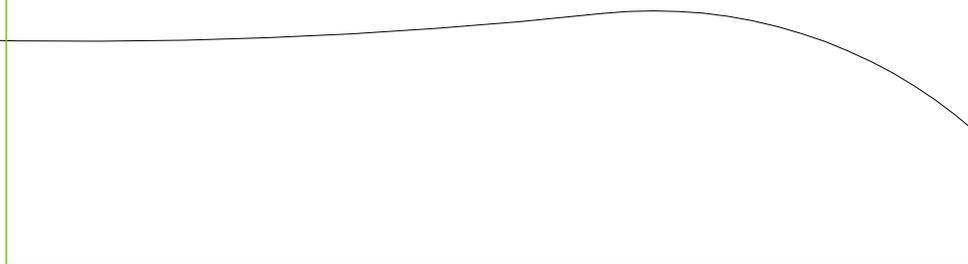
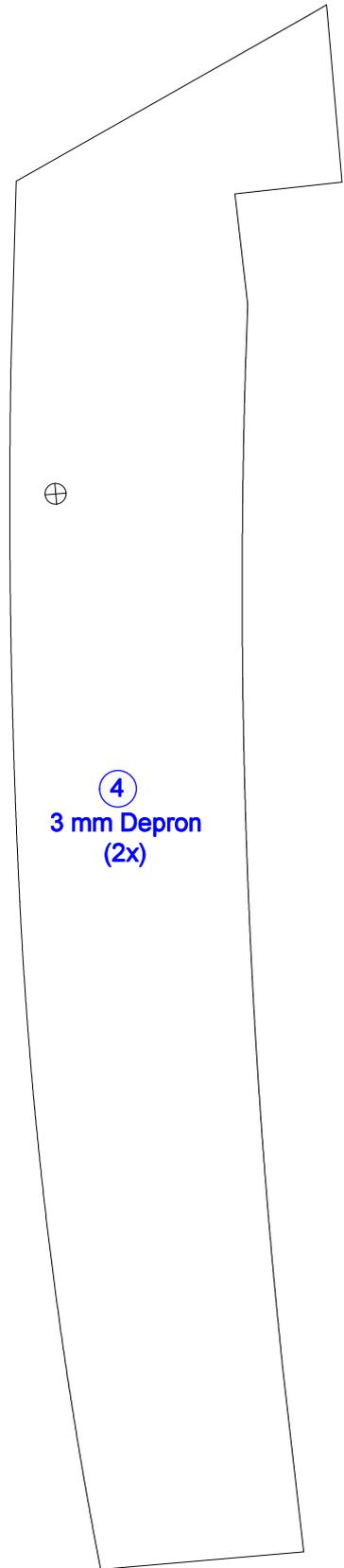
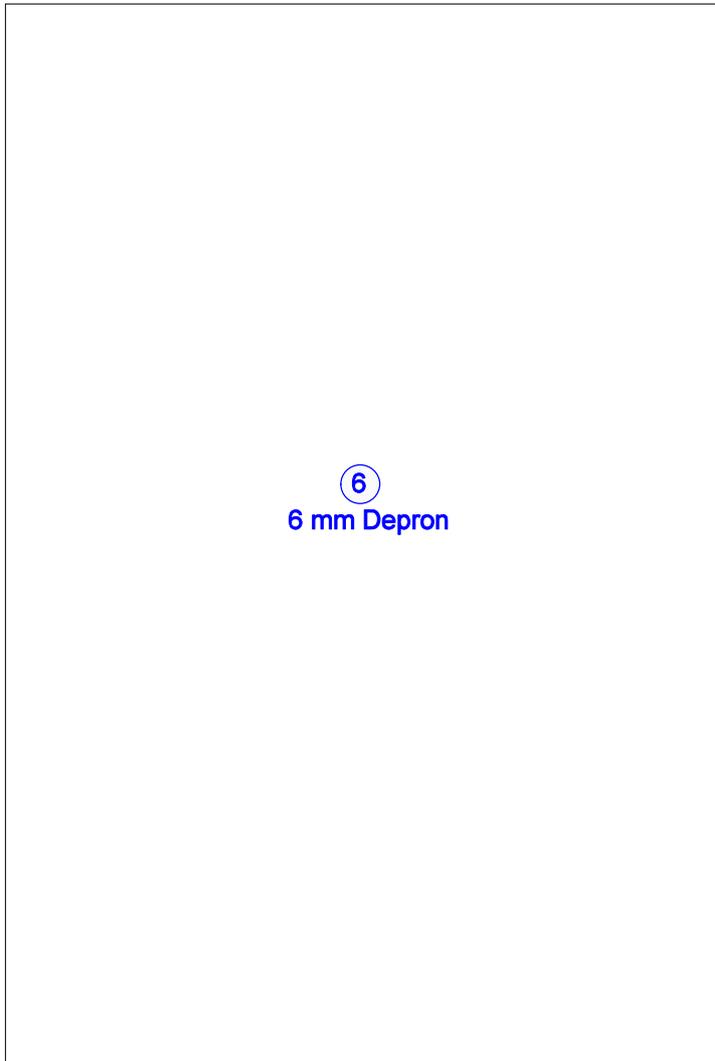


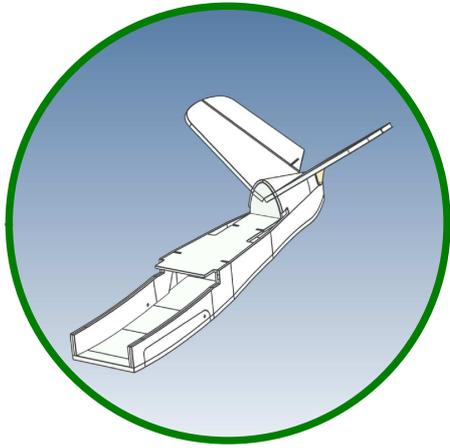


⑤
3 mm Depron

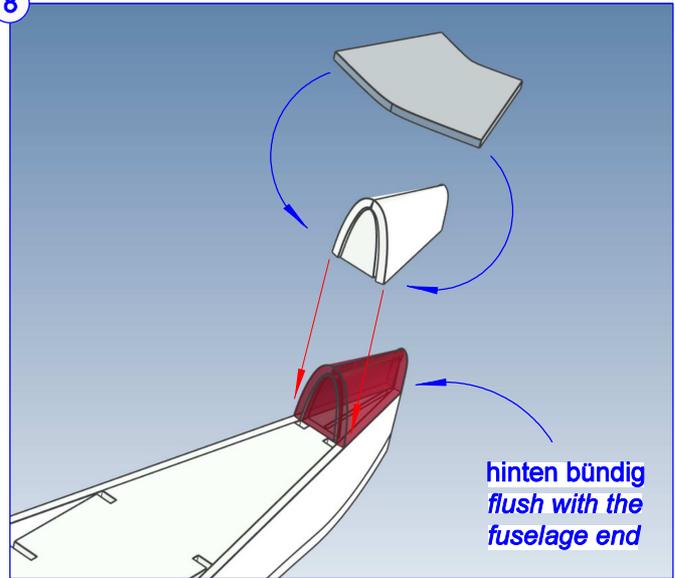




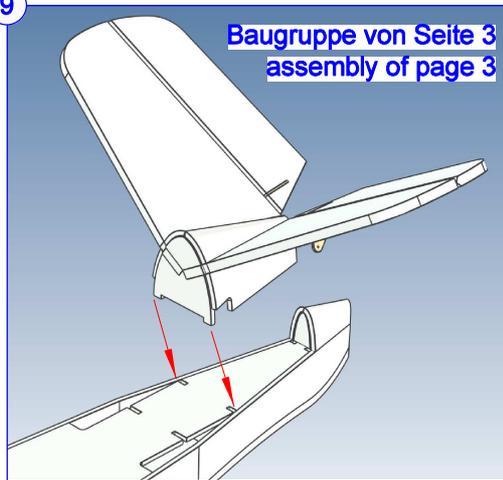




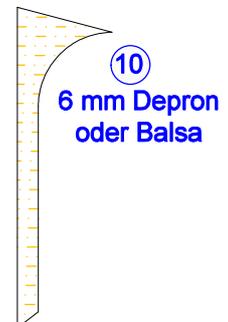
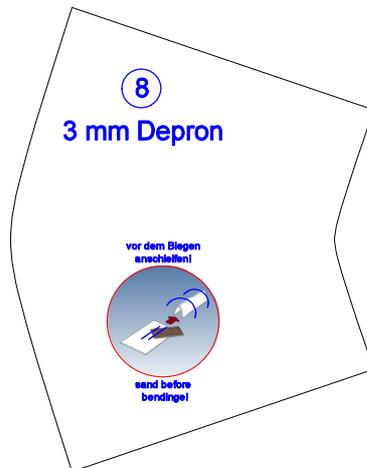
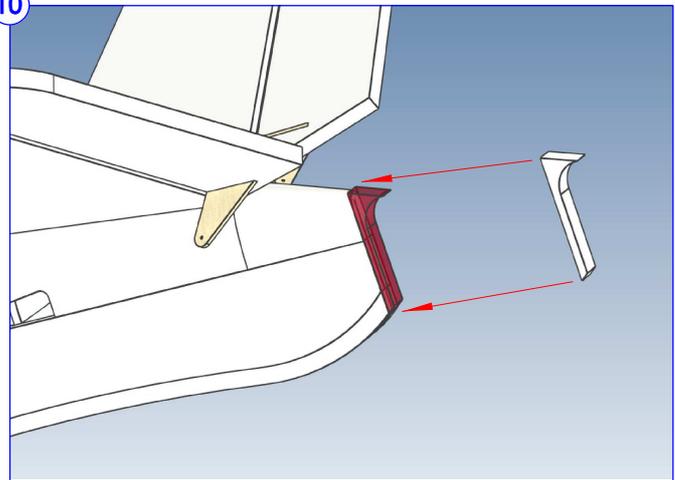
8

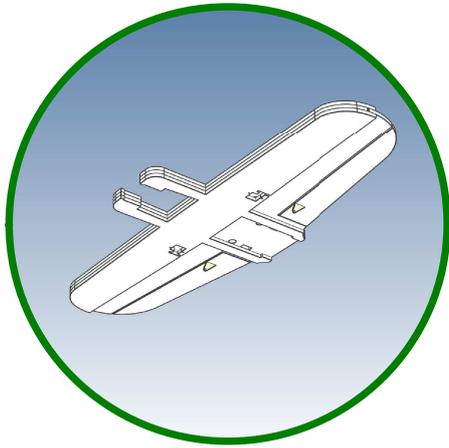


9

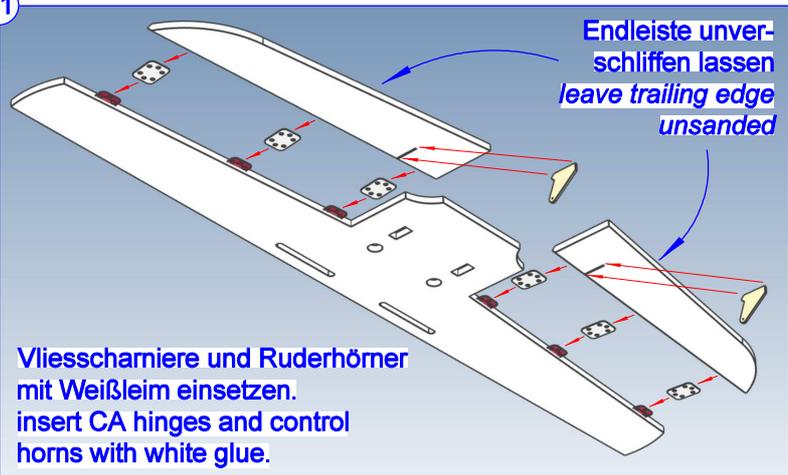


10





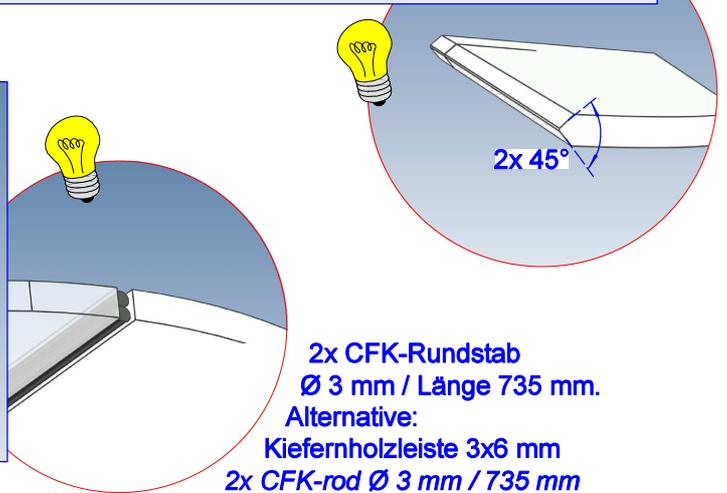
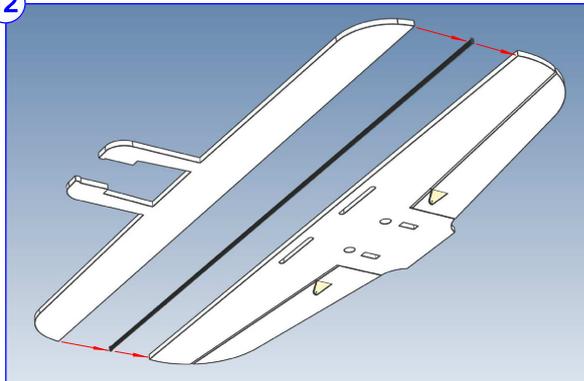
11



Endleiste unver-
schliffen lassen
leave trailing edge
unsanded

Vliesscharniere und Ruderhörner
mit Weißleim einsetzen.
insert CA hinges and control
horns with white glue.

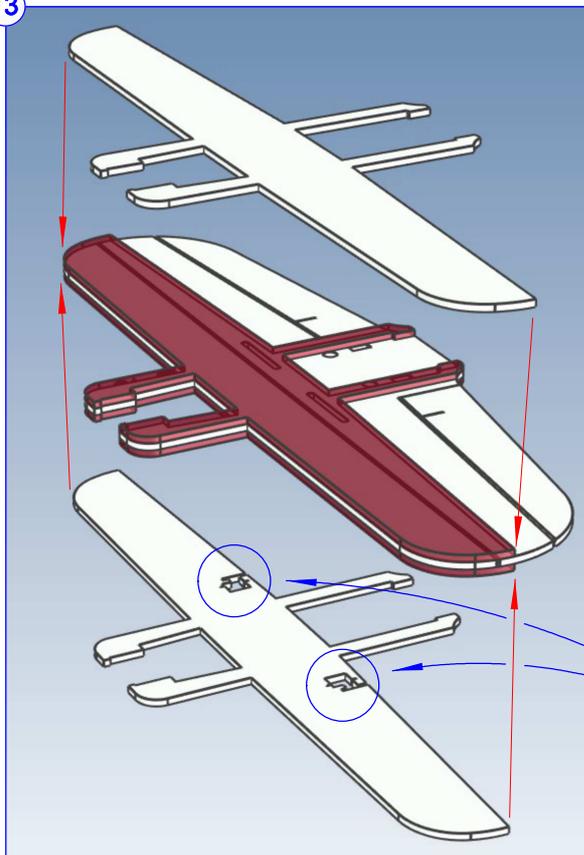
12



2x 45°

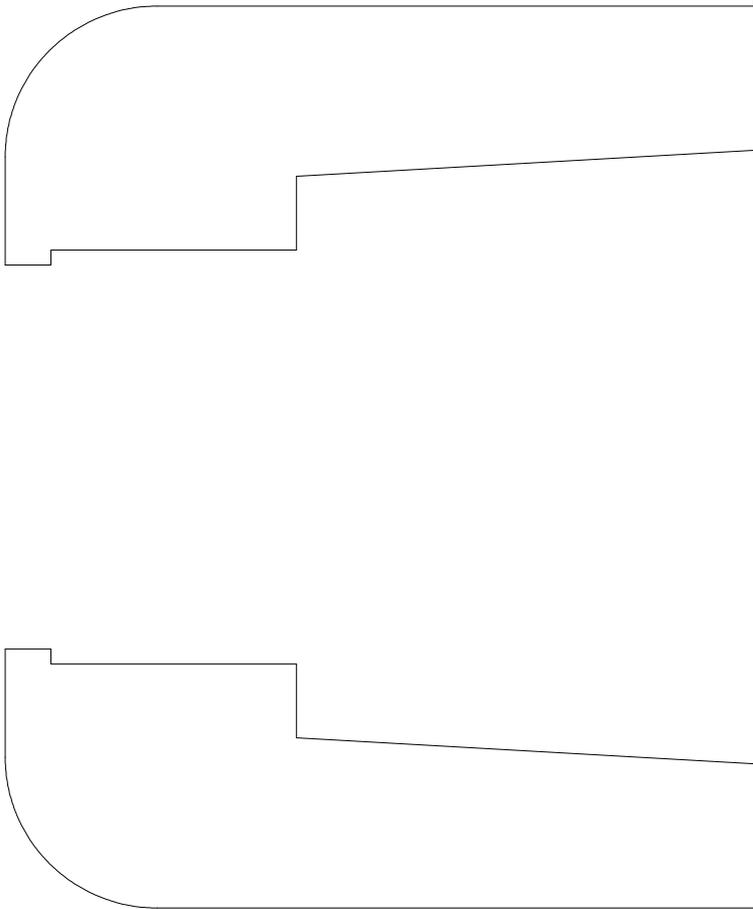
2x CFK-Rundstab
Ø 3 mm / Länge 735 mm.
Alternative:
Kiefernholzleiste 3x6 mm
2x CFK-rod Ø 3 mm / 735 mm
or 3x6 mm pine wood strip.

13

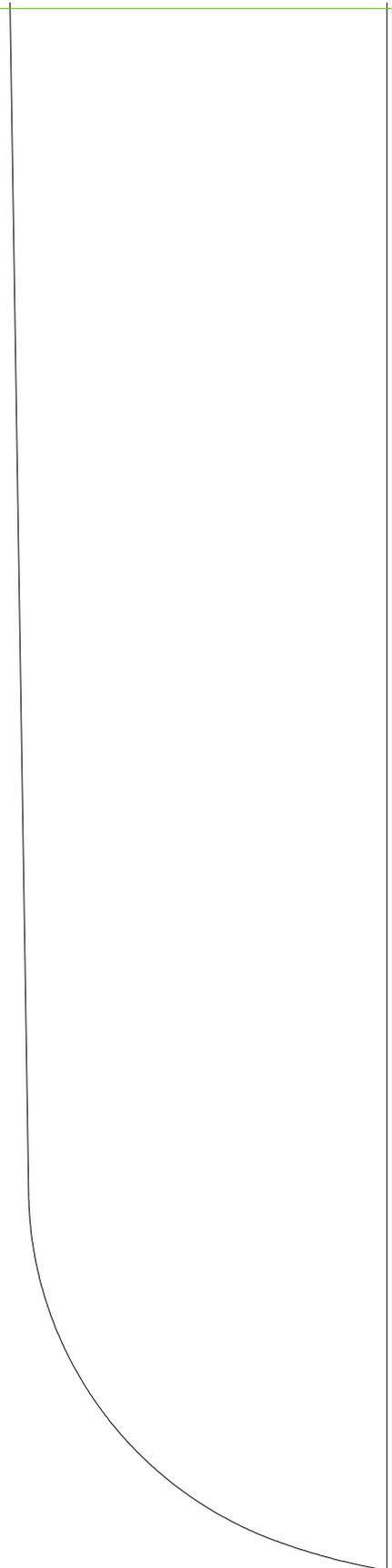


Geeigneter Klebstoff:
UHU por oder
Sprühkleber.
Suitable adhesive:
Styrofoam-compatible
contact adhesive like UHU
por or spray adhesive.

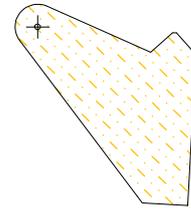
Die Servo-Aussparungen
befinden sich nur an der
Flügel-Unterseite (vgl.
Seite 18)!
The servo cut-outs are
only on the underside of
the wing (see page 18)!



⑫
6 mm Depron



⑪
1,5 mm
Flugzeugsperrholz
(2x)



⑫
(2x)
6 mm Depron



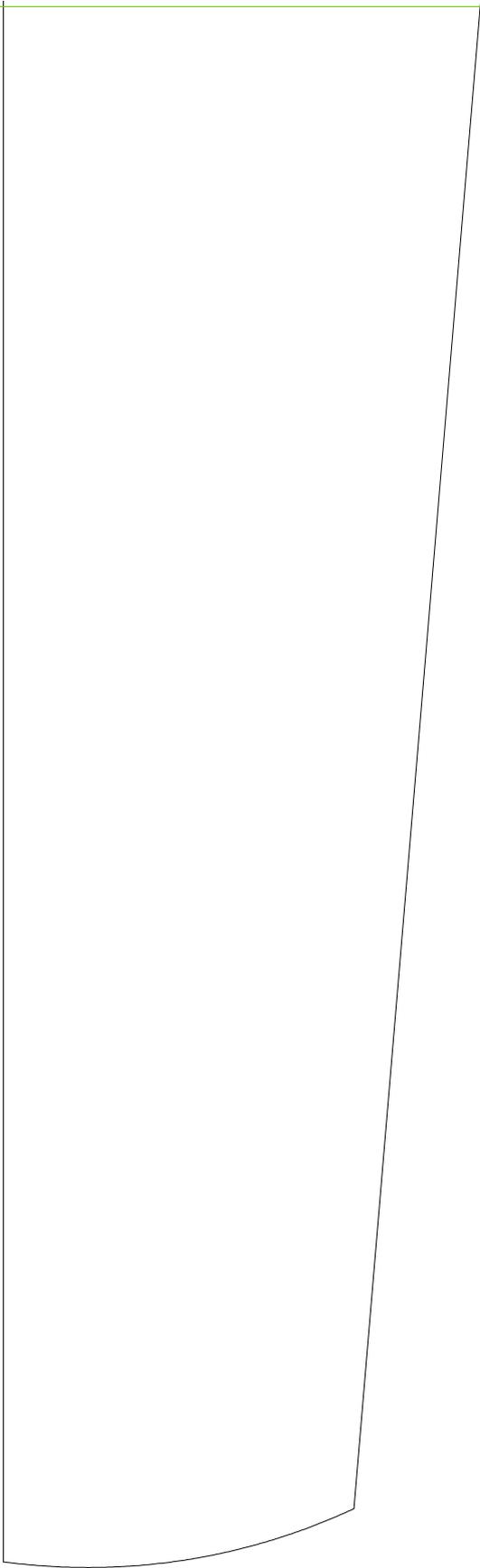
Servo-Aussparung
servo cutout

⑫
6 mm Depron



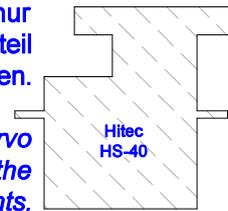
Servo-Aussparung
servo cutout



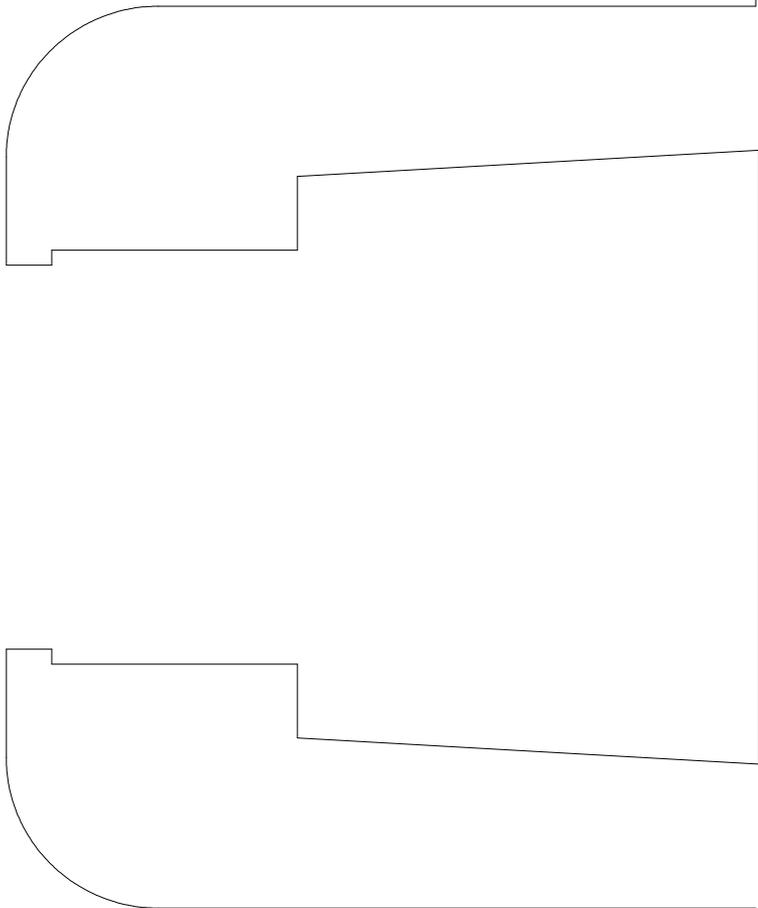


Servo-Ausschnitt nur
an EINEM Bauteil
anbringen.

*only attach the servo
cut-out to ONE of the
components.*



Schwerpunktlage
hier markieren
mark CG here



⑬
(2x)
6 mm Depron

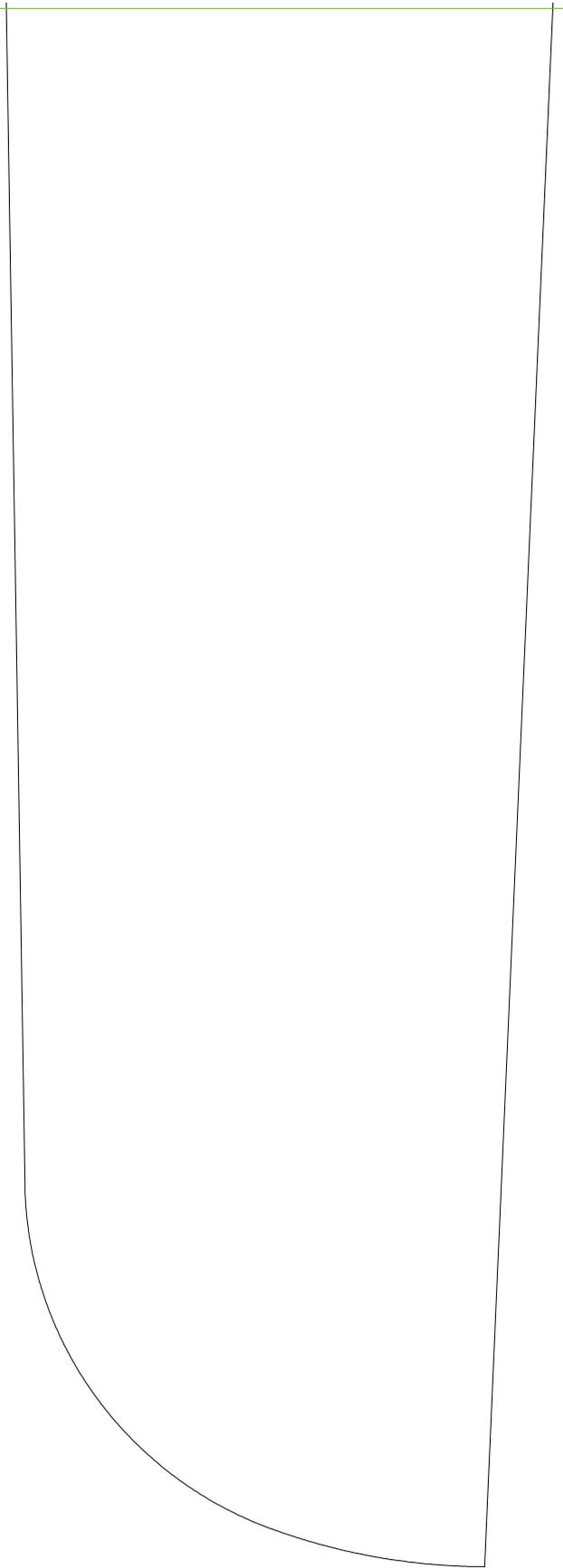
Schwerpunktlage
hier markieren
mark CG here



Servo-Ausschnitt nur
an EINEM Bauteil
anbringen.

*only attach the servo
cut-out to ONE of the
components.*

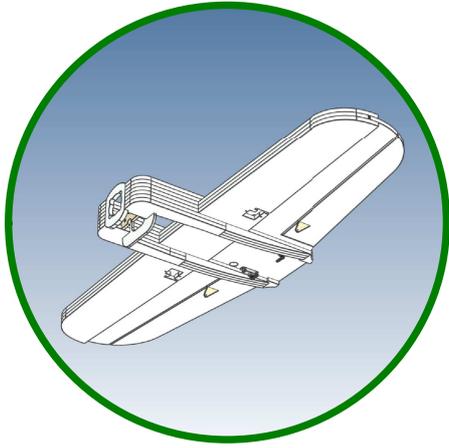




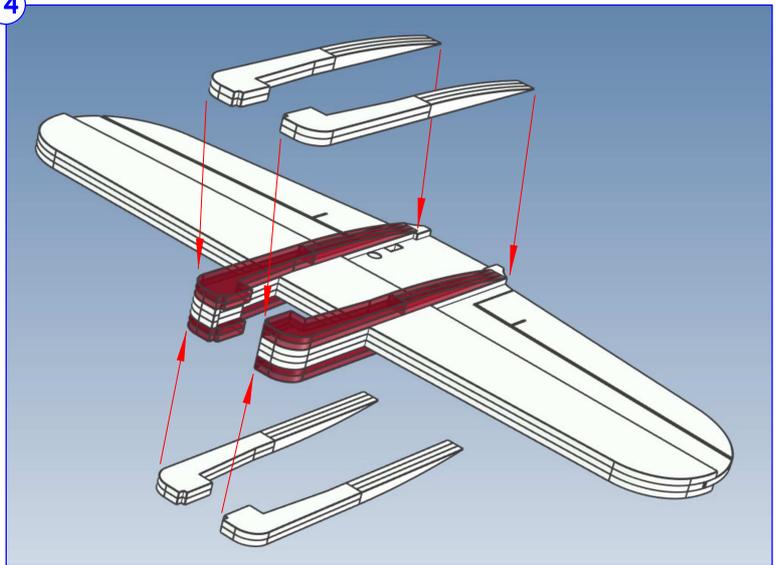


Seite 18

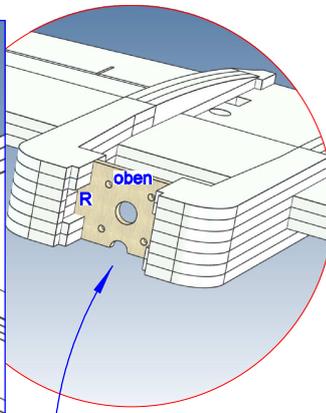
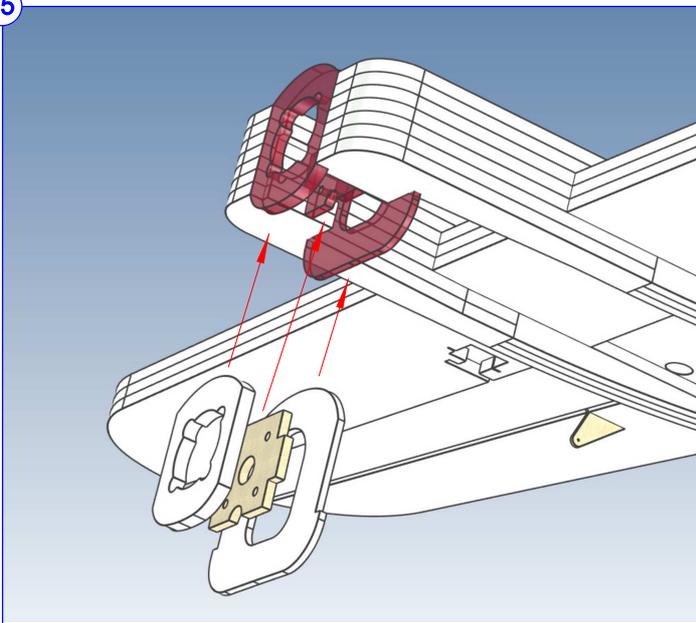




14



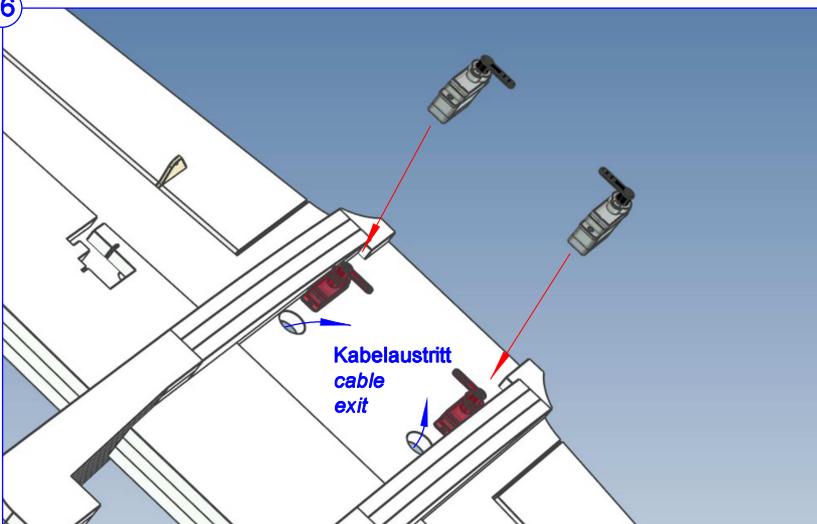
15



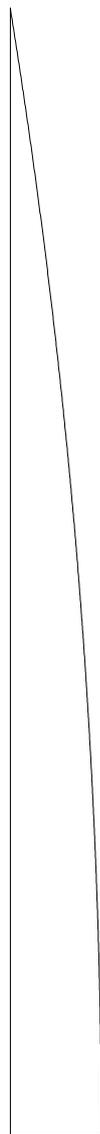
Den Motorspant zunächst nur in der korrekten Ausrichtung einfädeln. Verleimt wird er bei Bau-schritt 18.

Initially only insert the motor bulkhead in its correct orientation. It is glued in step 18.

16

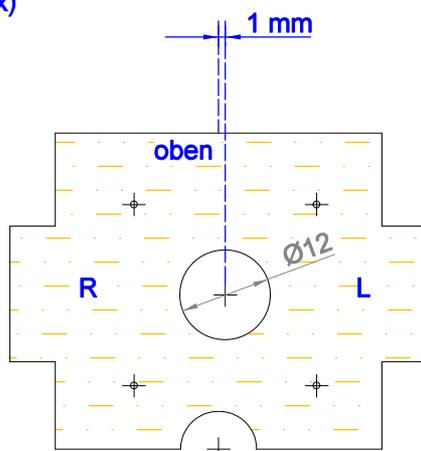
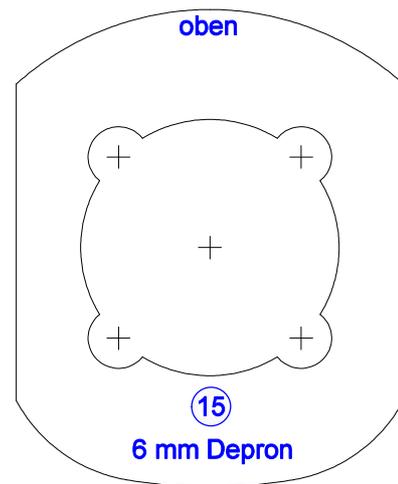
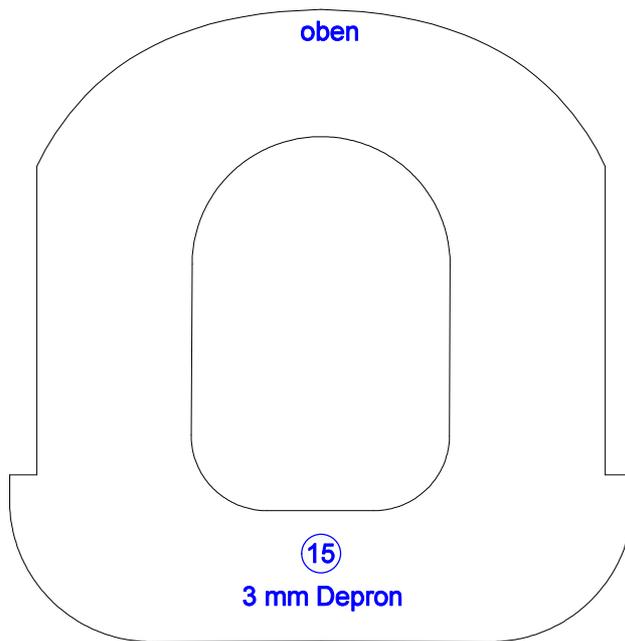


14
6 mm Depron
(8x)



⑭

6 mm Depron
(12x)

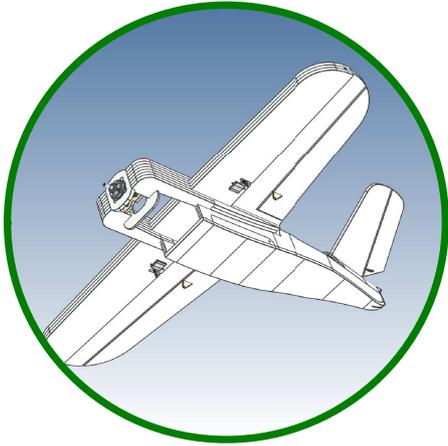


⑮

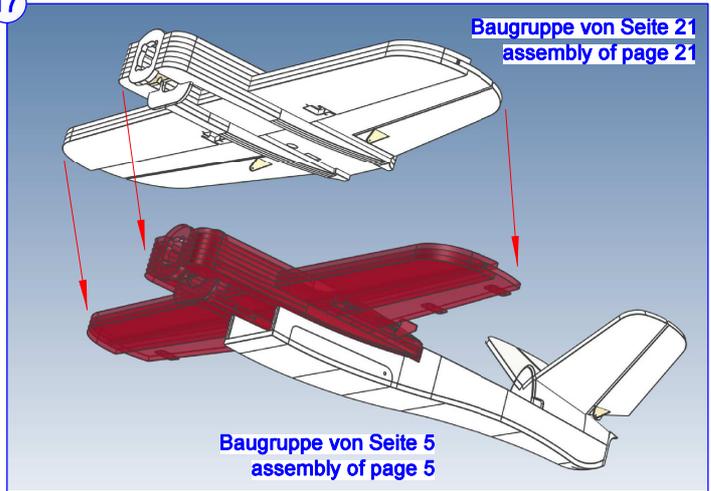
4 mm Pappelsperholz
4 mm poplar plywood

Der Motor wird am Spant um 1 mm weiter links befestigt, damit er unter Berücksichtigung des Seitenzuges von 1,5° vorn mittig aus dem Rumpf herauschaut.

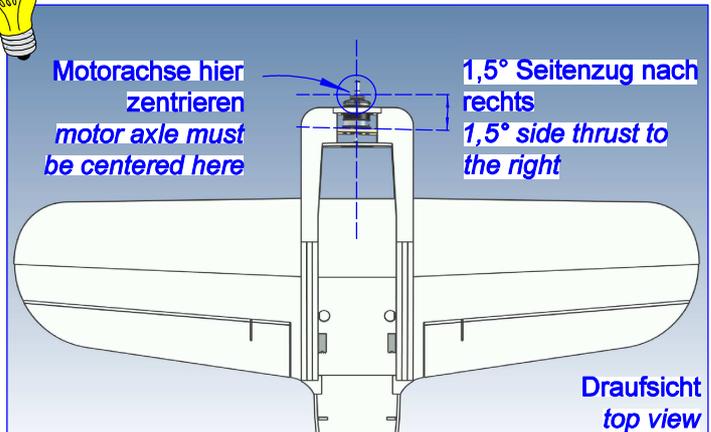
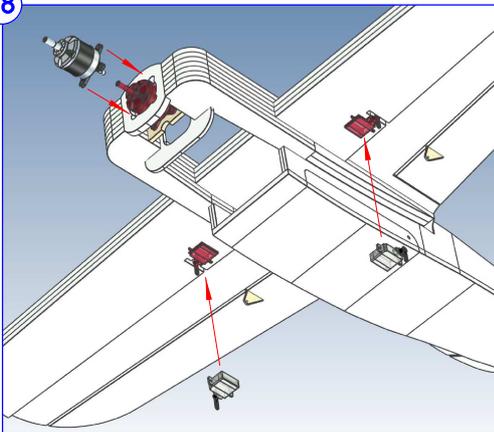
The motor is attached to the bulkhead by 1 mm further to the left so that it is centered with its shaft, due to the side thrust of 1,5°.



17

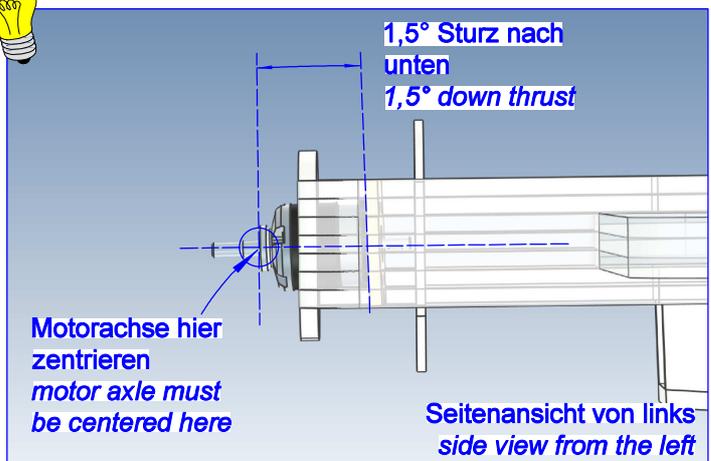


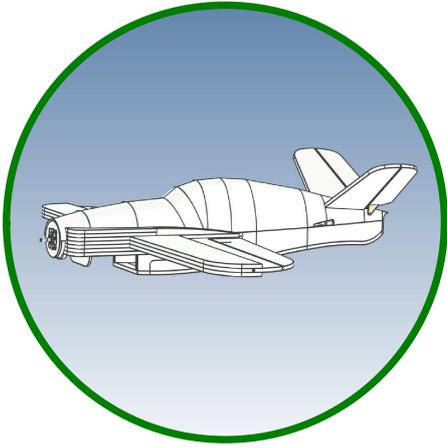
18



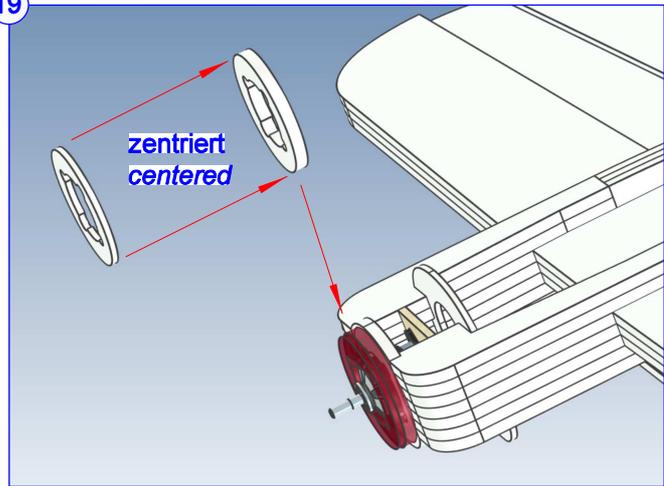
Motor mit Motorspant verschrauben, damit der Spant ausgerichtet und festgeleimt werden kann.
Der Seitenzug soll 1,5° betragen, und der Motorsturz 1,0°.

*Bolt the motor to the motor bulkhead so that the bulkhead can be aligned and glued.
The side thrust should be 1.5 ° and the downthrust 1.0 °.*

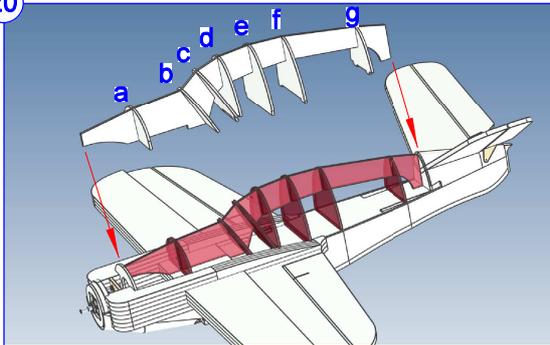




19

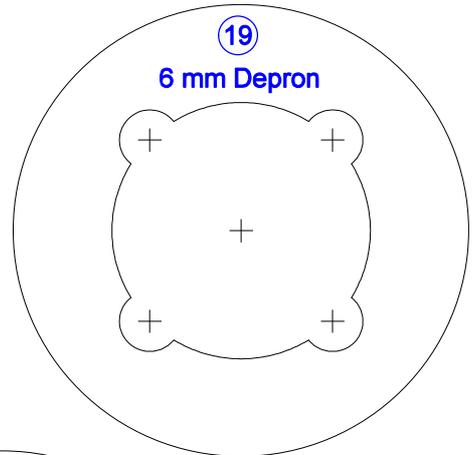


20

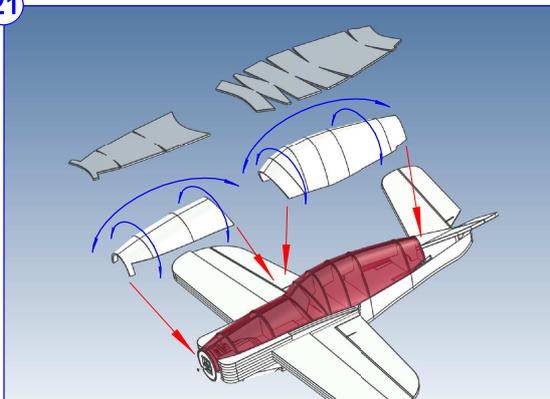


19

6 mm Depron

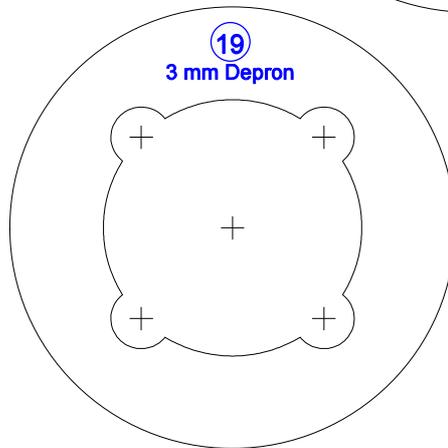


21



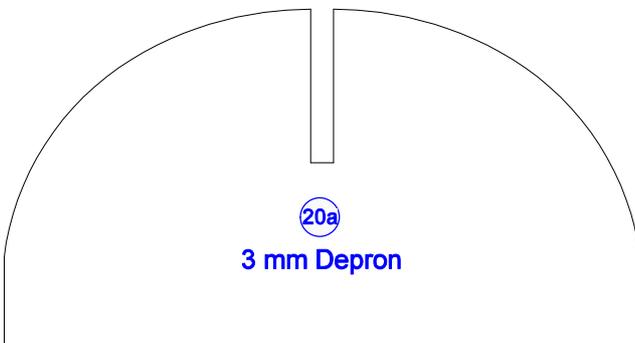
19

3 mm Depron



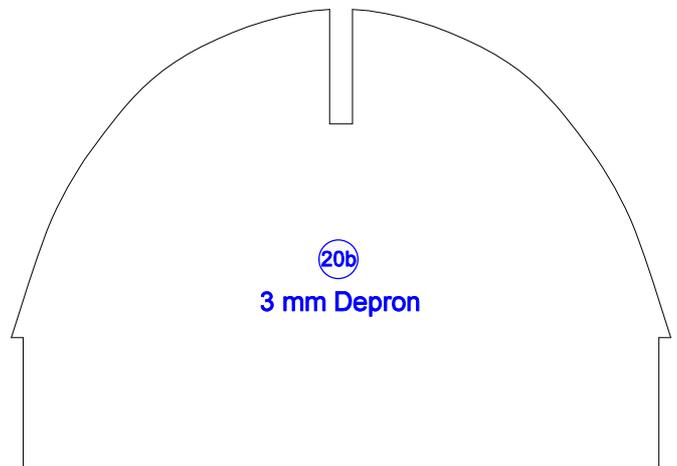
20a

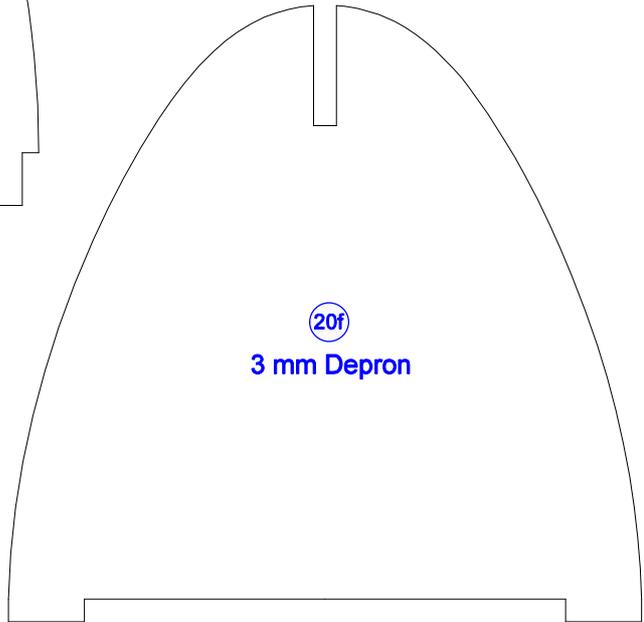
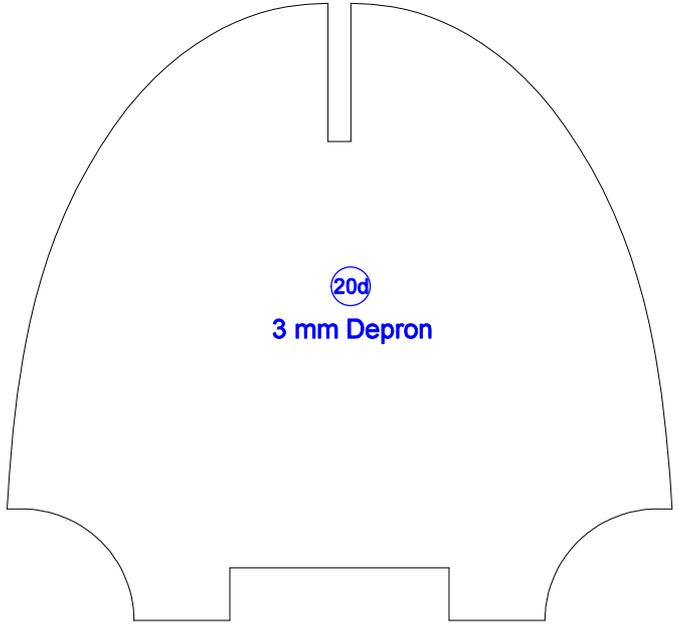
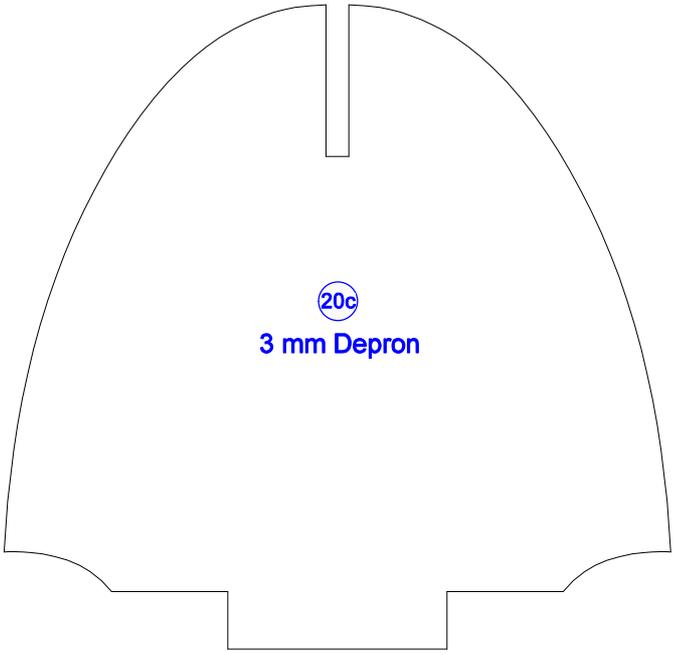
3 mm Depron

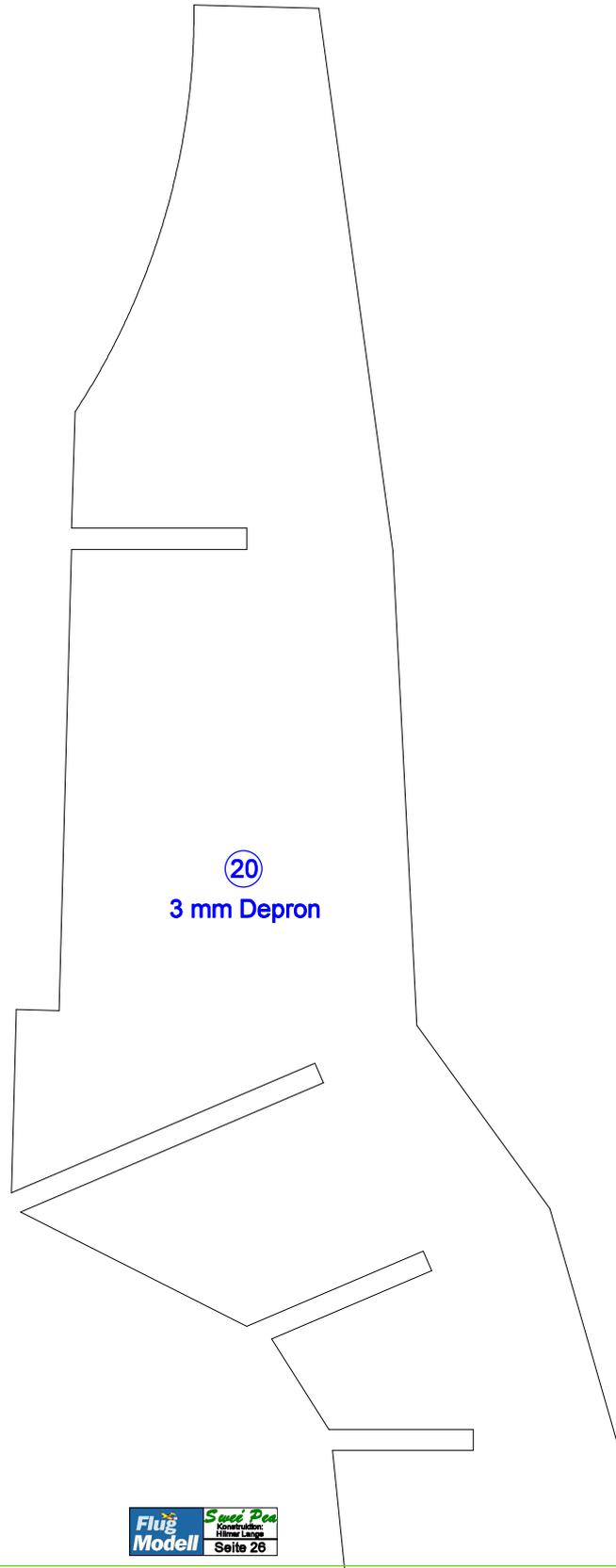


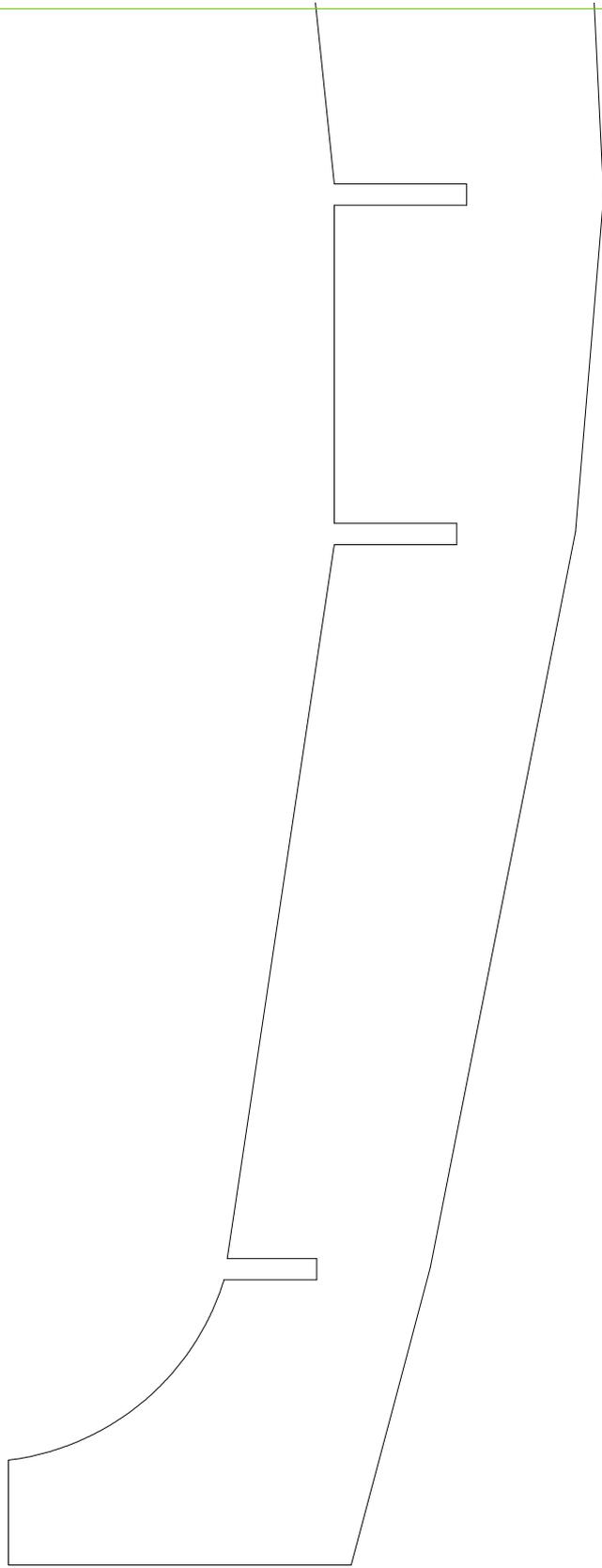
20b

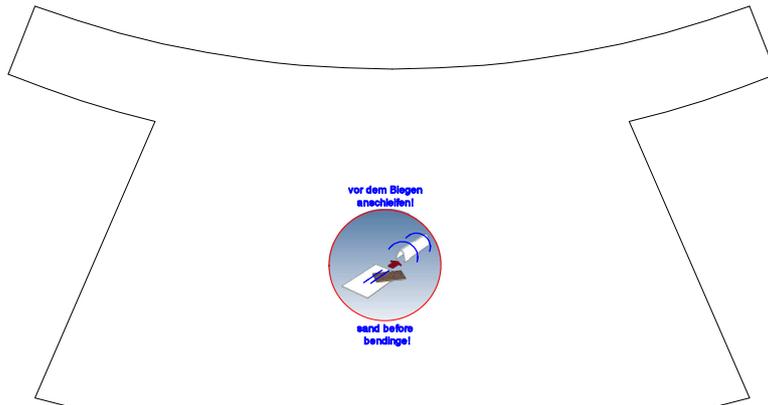
3 mm Depron









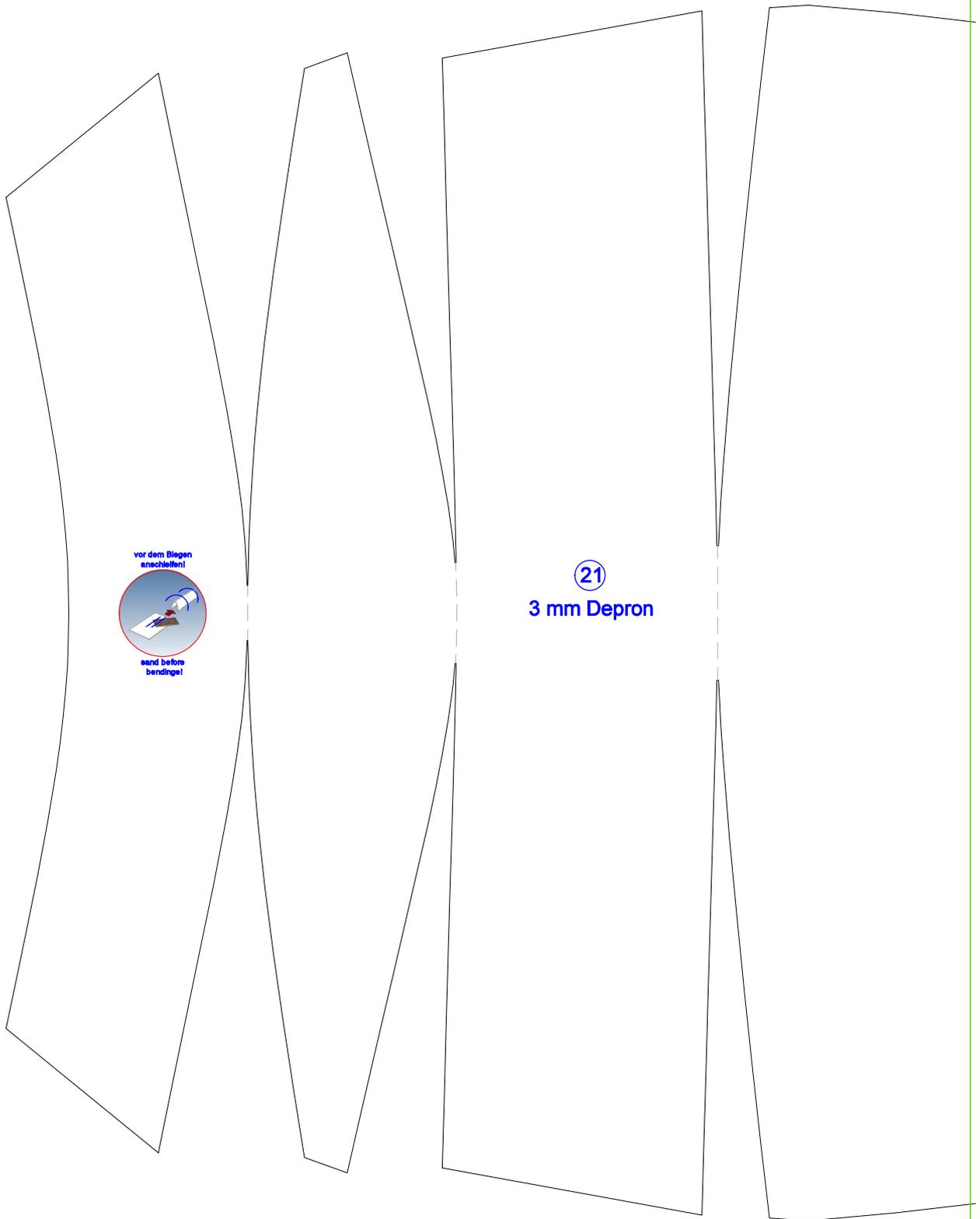


21

3 mm Depron

Dieses Teil kann als ein Ganzes
verwendet werden, oder es kann an
der gestrichelten Linie in drei
Einzelteile aufgeteilt werden.

*This part can be used as a whole, or it
can be split into three parts along the
dashed line.*

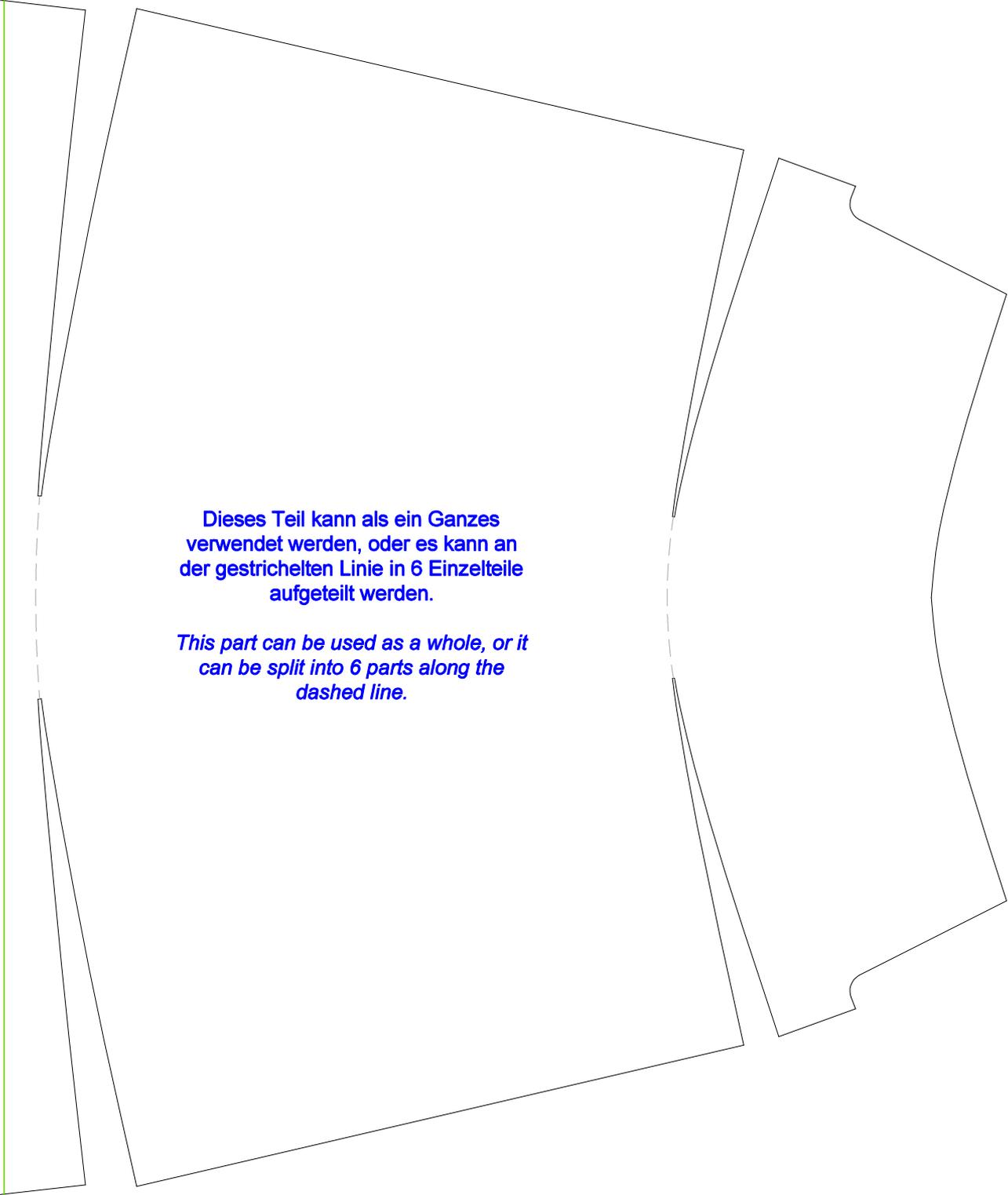


vor dem Biegen
anschließen!

sand before
bündeln!

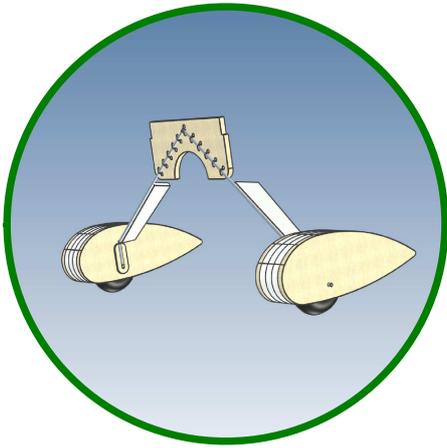
21

3 mm Depron

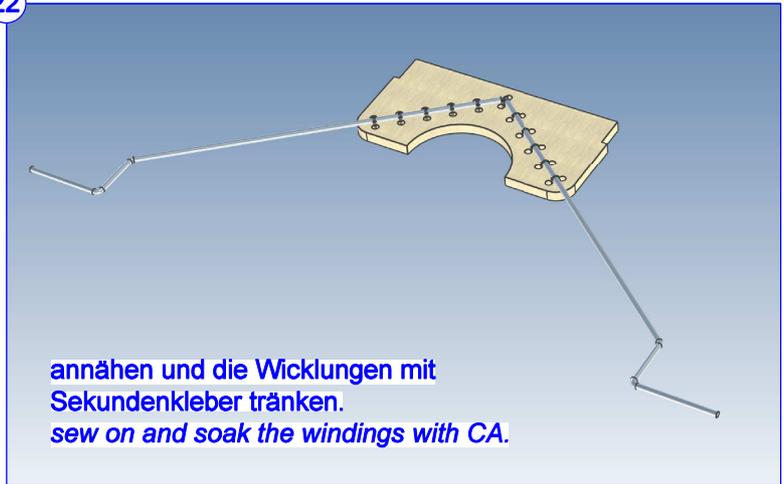


Dieses Teil kann als ein Ganzes
verwendet werden, oder es kann an
der gestrichelten Linie in 6 Einzelteile
aufgeteilt werden.

*This part can be used as a whole, or it
can be split into 6 parts along the
dashed line.*

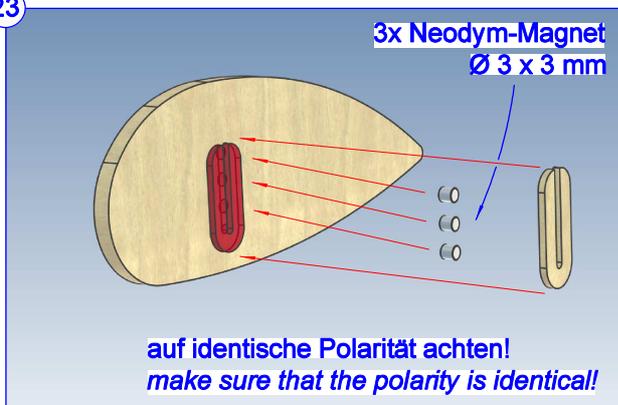


22



annähen und die Wicklungen mit Sekundenkleber tränken.
sew on and soak the windings with CA.

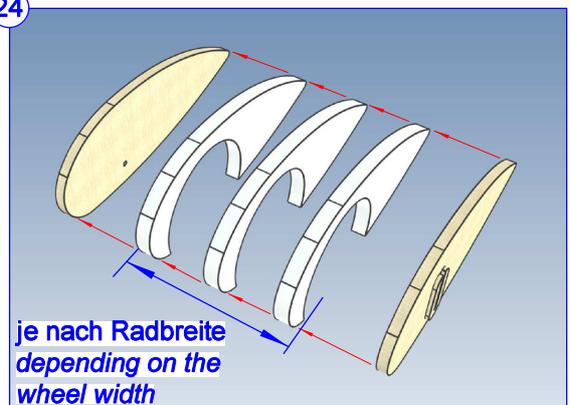
23



3x Neodym-Magnet
 Ø 3 x 3 mm

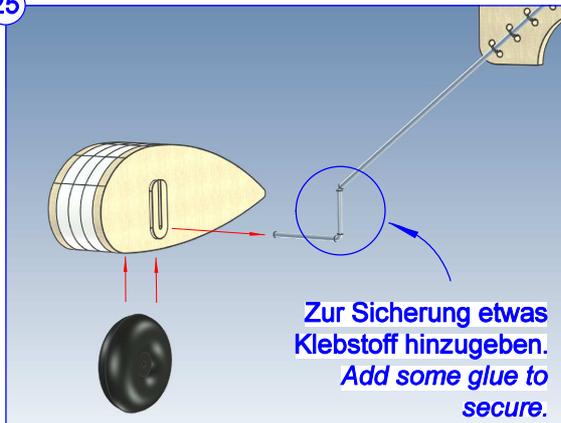
auf identische Polarität achten!
make sure that the polarity is identical!

24



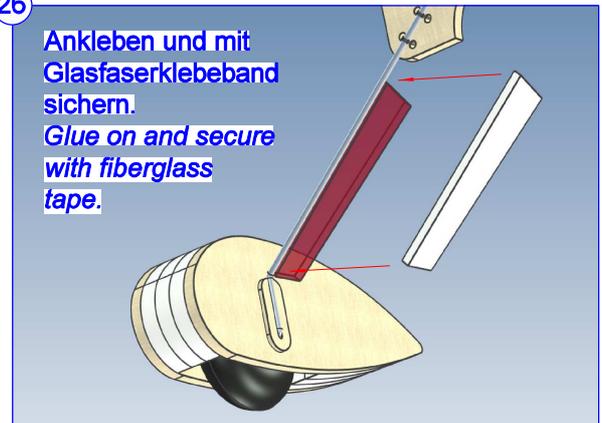
je nach Radbreite
depending on the wheel width

25

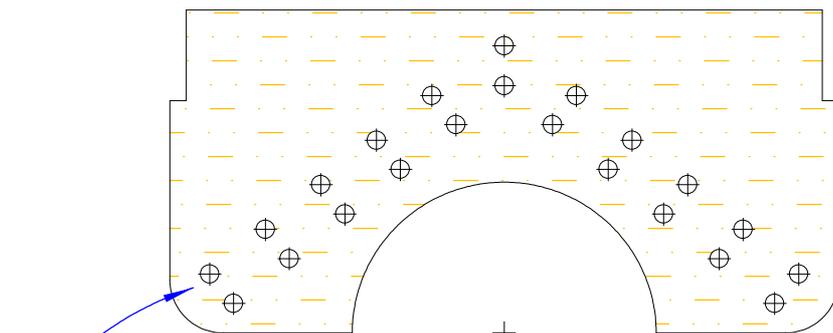


Zur Sicherung etwas Klebstoff hinzugeben.
Add some glue to secure.

26



Ankleben und mit Glasfaserklebeband sichern.
Glue on and secure with fiberglass tape.

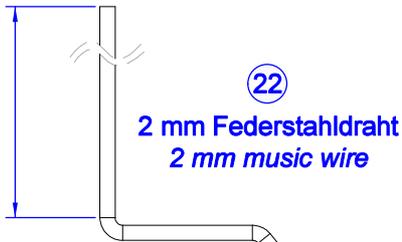


Ø 2,5 mm

22

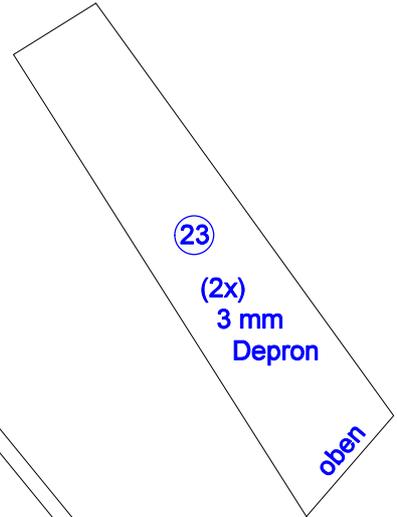
4 mm Pappelsperholz
 4 mm poplar plywood

Diese Länge richtet sich nach dem verwendeten Rad!
 Zunächst länger lassen, danach einkürzen.
This length depends on the wheel you are using! First leave it longer, then shorten it.



22

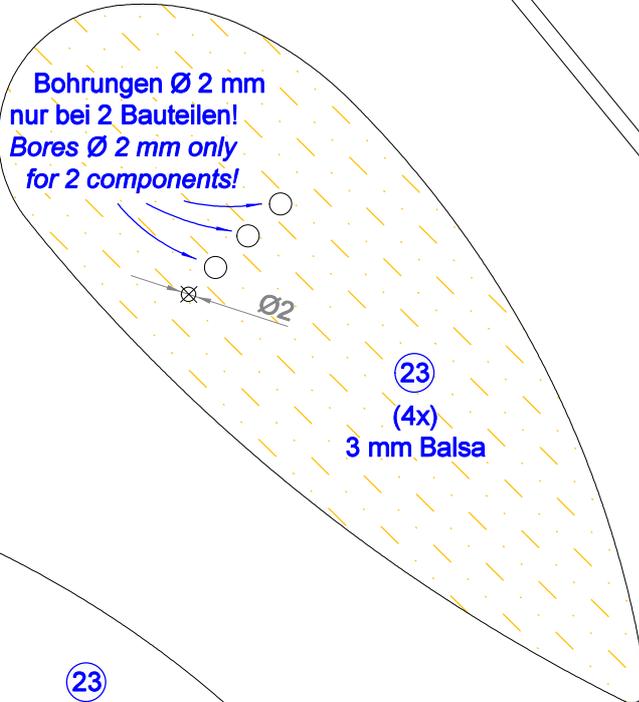
2 mm Federstahldraht
 2 mm music wire



23

(2x)
 3 mm
 Depron

oben

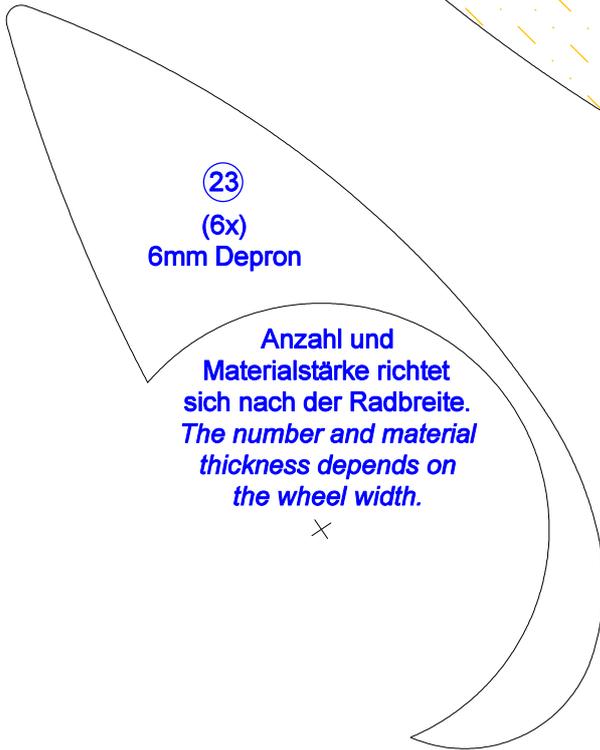


Bohrungen Ø 2 mm
 nur bei 2 Bauteilen!
 Bores Ø 2 mm only
 for 2 components!

Ø2

23

(4x)
 3 mm Balsa



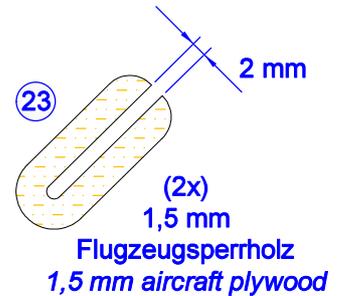
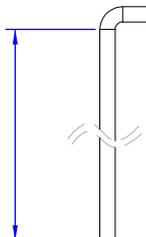
23

(6x)
 6mm Depron

Anzahl und
 Materialstärke richtet
 sich nach der Radbreite.
*The number and material
 thickness depends on
 the wheel width.*

x

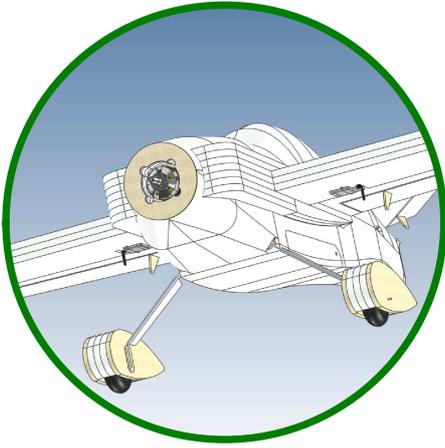
Diese Länge richtet sich nach dem verwendeten Rad!
 Zunächst länger lassen, danach einkürzen.
This length depends on the wheel you are using! First leave it longer, then shorten it.



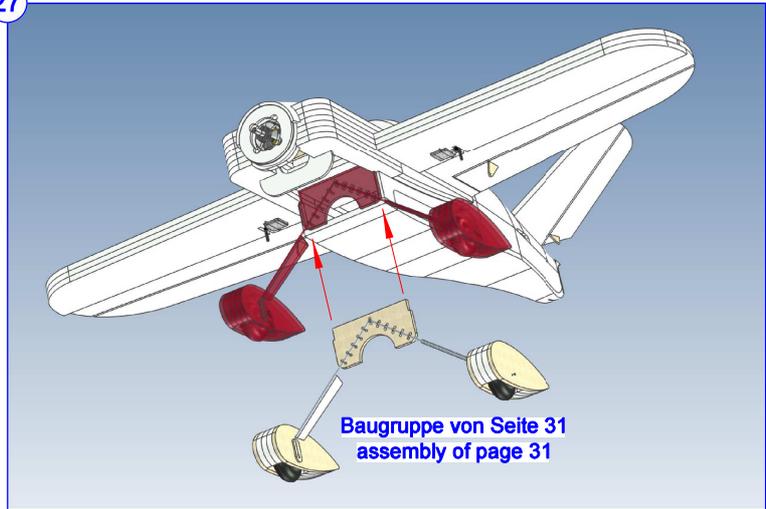
23

(2x)
 1,5 mm
 Flugzeugsperrholz
 1,5 mm aircraft plywood

2 mm

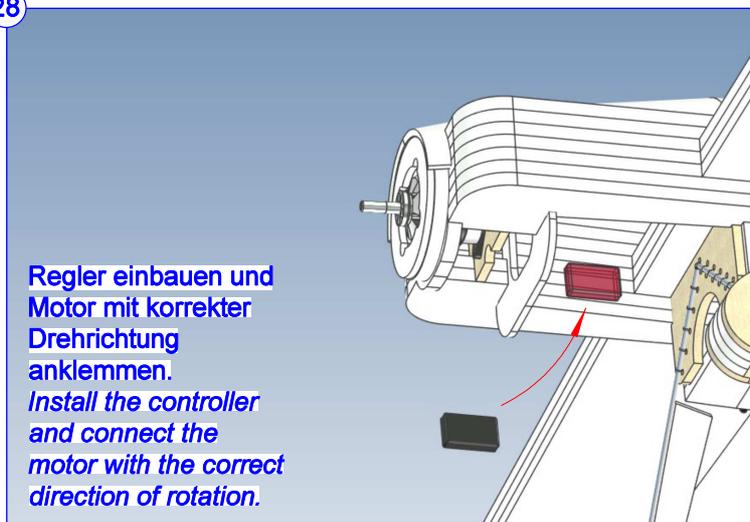


27

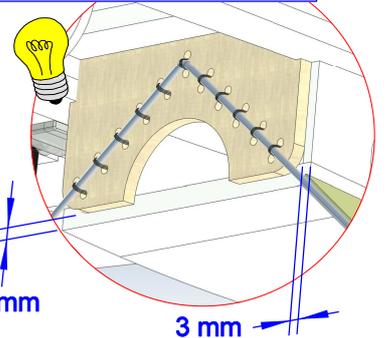


Baugruppe von Seite 31
assembly of page 31

28



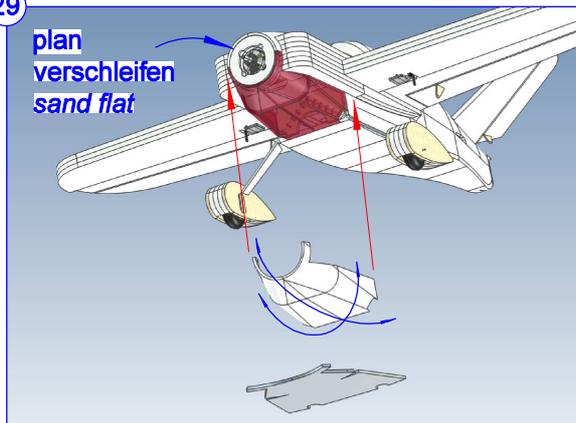
Regler einbauen und Motor mit korrekter Drehrichtung anklemmen.
Install the controller and connect the motor with the correct direction of rotation.



3 mm

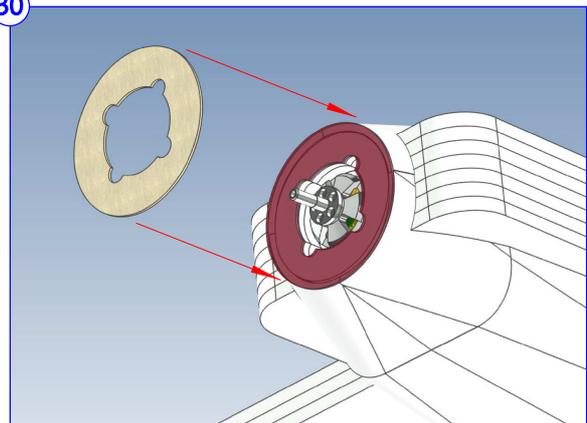
3 mm

29



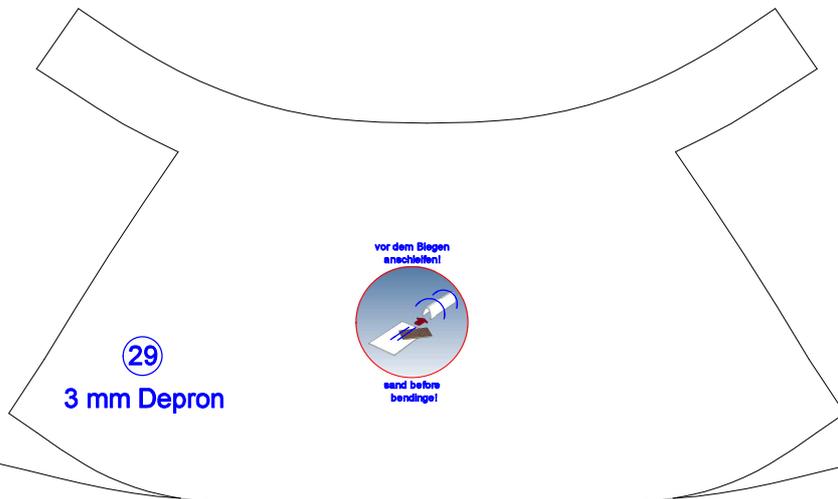
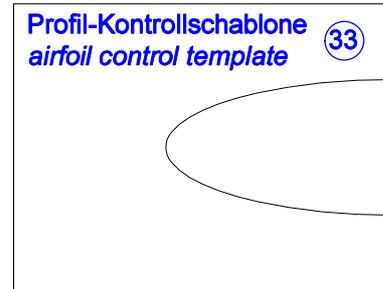
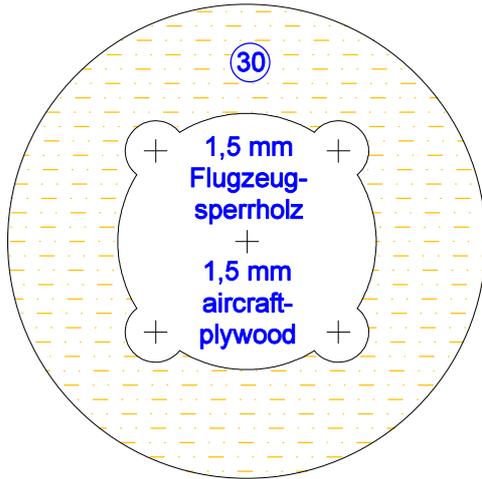
plan
verschleifen
sand flat

30



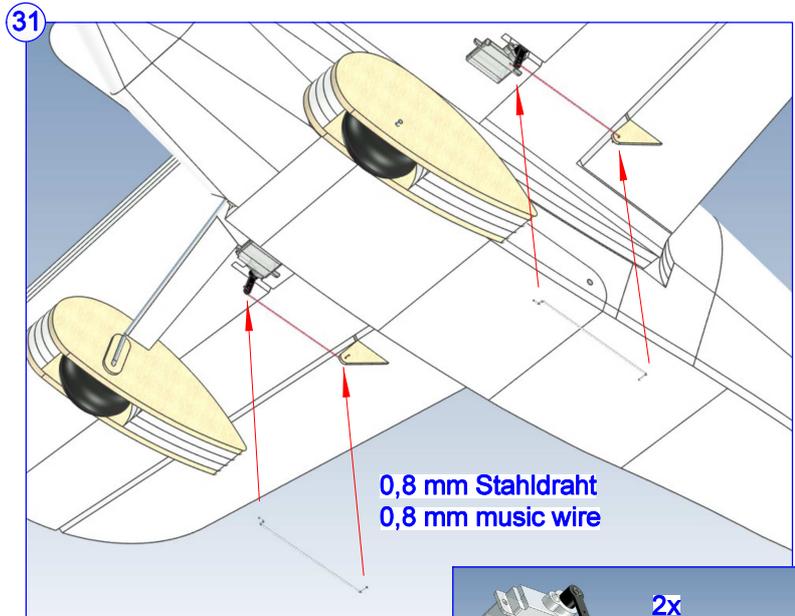
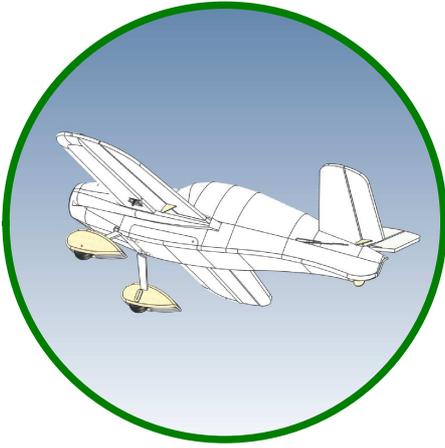
Der Abschluss-Spant ist geringfügig kleiner, so dass der umgebende Bereich der Schnauze darauf angepasst kreisrund geschliffen werden kann. Zentrieren Sie ihn exakt zur Propellerauflage!

The final bulkhead is slightly smaller so that the surrounding area of the snout can be ground to be perfectly circular. Center it exactly to the propeller support!



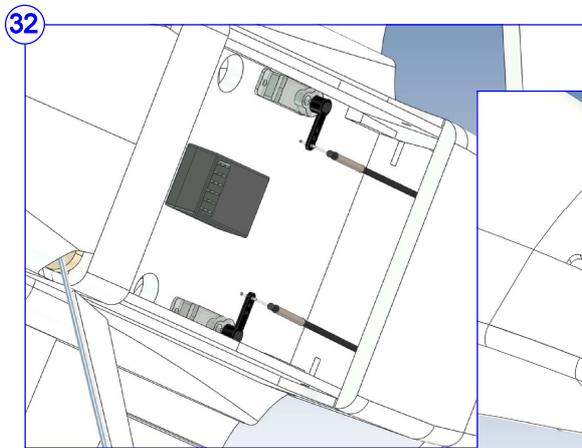
Dieses Teil kann als ein Ganzes
verwendet werden, oder es kann an
der gestrichelten Linie in zwei
Einzelteile aufgeteilt werden.

*This part can be used as a whole, or it
can be split into two parts along the
dashed line.*

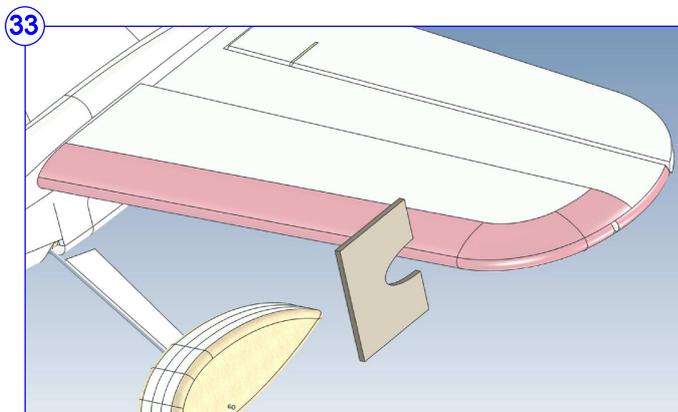
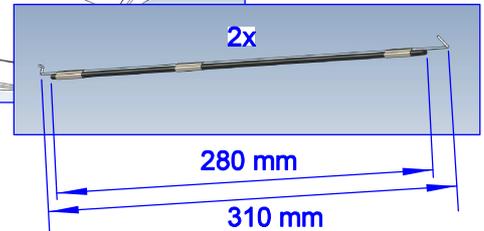


0,8 mm Stahldraht
0,8 mm music wire

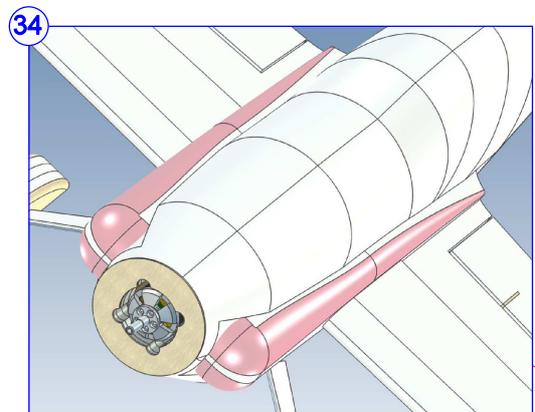
2x
62 mm



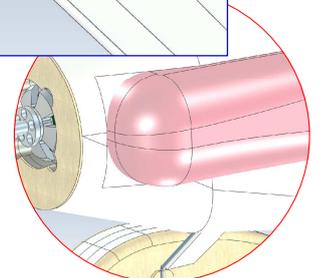
0,8 mm Stahldraht, verstärkt mit 2 mm CFK-Stab
0,8 mm music wire, reinforced with 2 mm CFK-rod



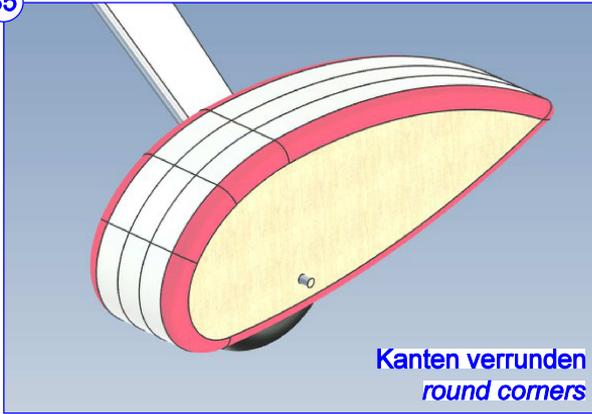
Nasenleiste gemäß Konturschablone verrunden (oben und unten symmetrisch).
Round the leading edge according to the contour template (symmetrical above and below).



Hamsterbacken verrunden.
Round hamster cheeks (cowling).

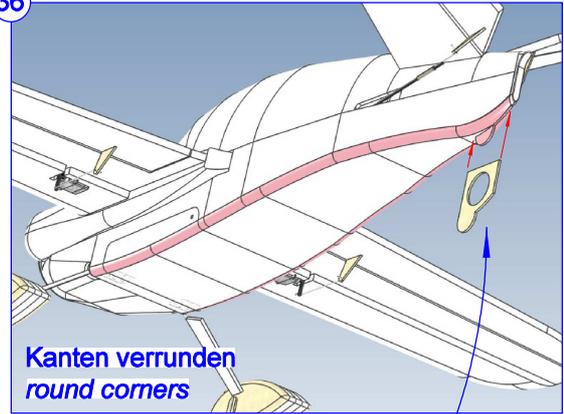


35



Kanten verrunden
round corners

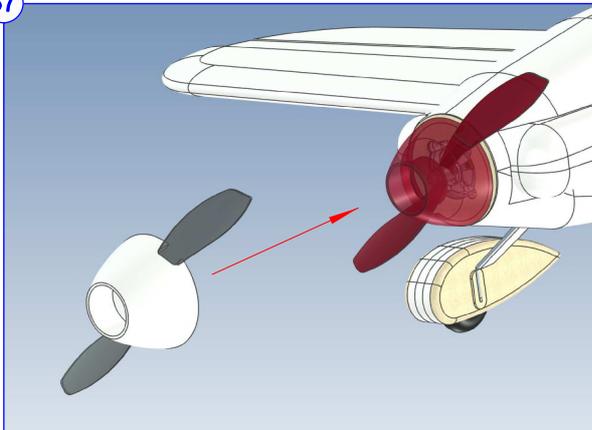
36



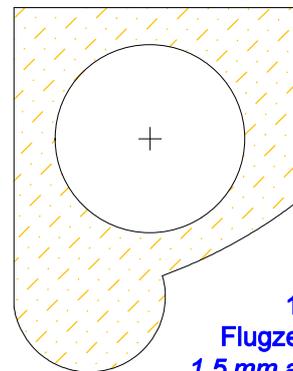
Kanten verrunden
round corners

Heckrad-Dummy als Schleifsporn
Rear wheel dummy as a grinding spur

37



Spinner-Ø 62 mm. Für vorbildgetreue Optik:
Spitze bei Ø 28 mm einkürzen.
Spinner Ø 62 mm. For a scale look: shorten the
tip at Ø 28 mm.



36

1,5 mm
Flugzeugsperrholz
1,5 mm aircraft plywood

Die Swee' Pea fliegt mit dem vorgeschlagenen Antrieb sehr kraftvoll und rasant. Starten Sie sie daher zunächst nur mit etwa Halbgas, bis Sie die Ruderreaktionen kennen und das Modell eingeflogen haben.

Es empfiehlt sich, bei den ersten Flügen die Ausschläge um ca. 70% zu verringern (Dual Rate) und generell mit EXPO nach Belieben zu entschärfen. Das Modell kann trotzdem auch langsam geflogen werden, weil das KF-Profil im Grenzbereich sehr gutmütig ist und keine Abrisstendenzen besitzt.

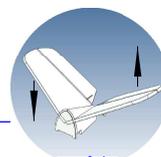
The Swee 'Pea flies very powerfully and rapidly with the proposed drive. You should therefore initially only start at about half throttle until you really know the rudder reactions.

It is advisable to reduce the deflections by approx. 70% on the first flights (dual rate) and generally to defuse them with EXPO at will.

The model can still be flown slowly because the KF profile is very good-natured and has no tendency to stall.



links
left

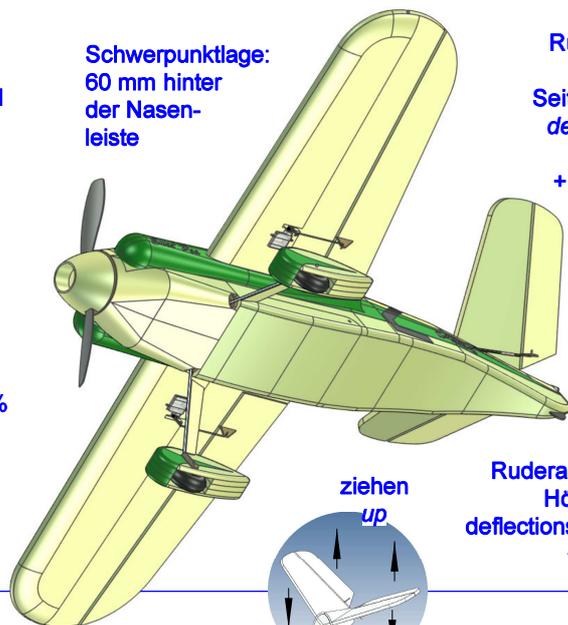


rechts
right

Ruderausschläge Querruder:
deflections aileron:
+ - 15 mm

Schwerpunktlage:
60 mm hinter
der Nasen-
leiste

Ruderaus-
schläge
Seitenruder:
deflections
rudder:
+ - 16 mm



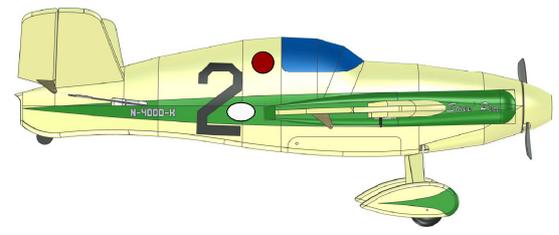
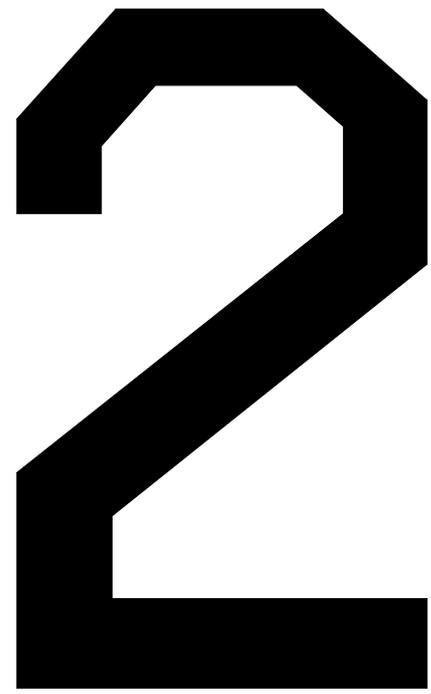
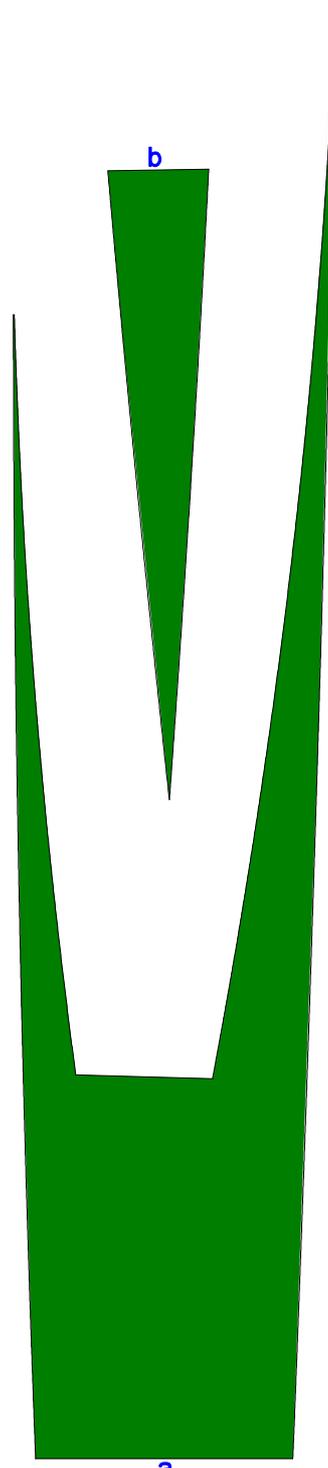
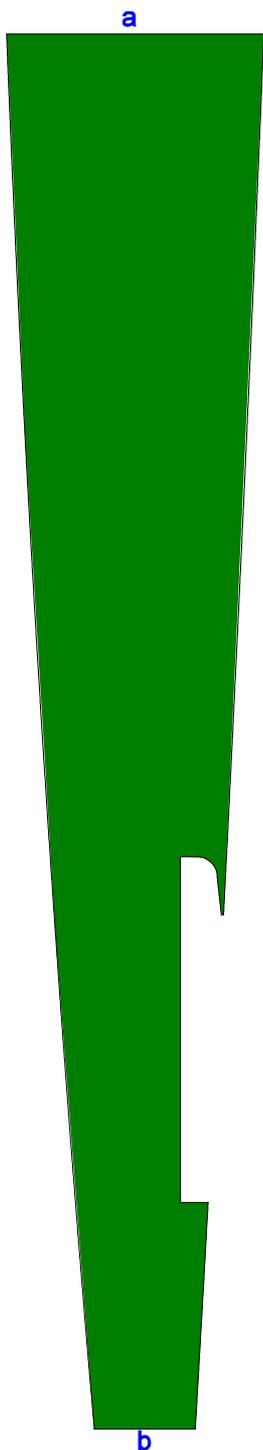
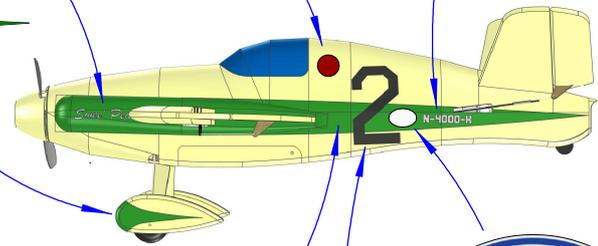
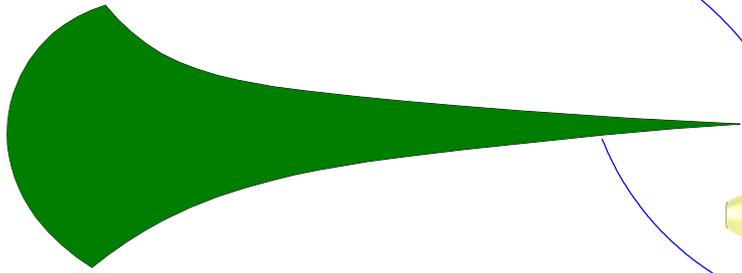
ziehen
up
drücken
down

Ruderausschläge
Höhenruder:
deflections elevator:
+ - 12 mm

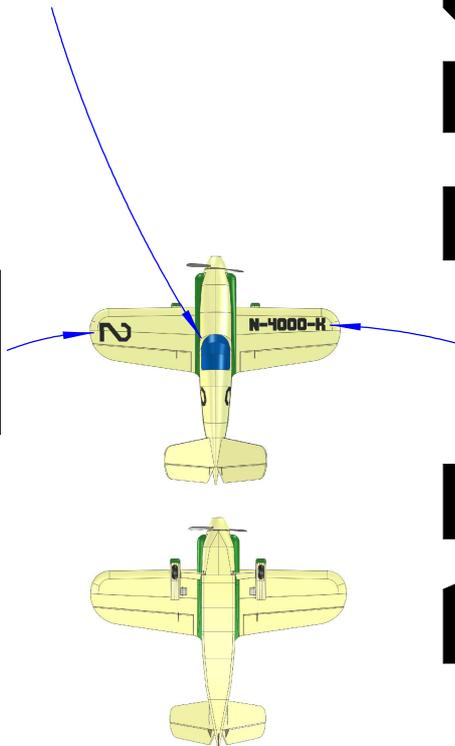
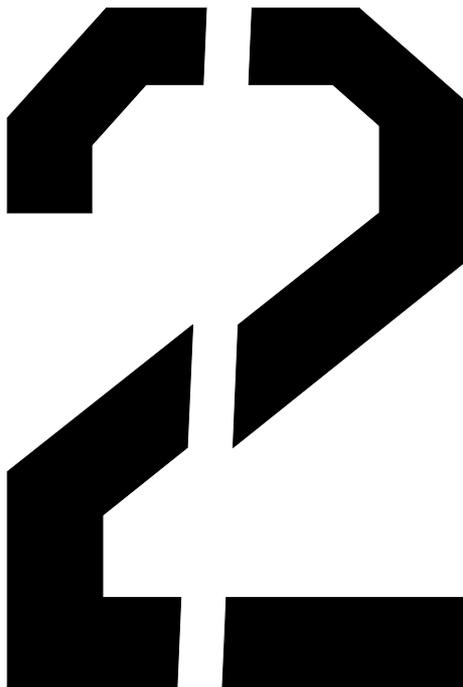
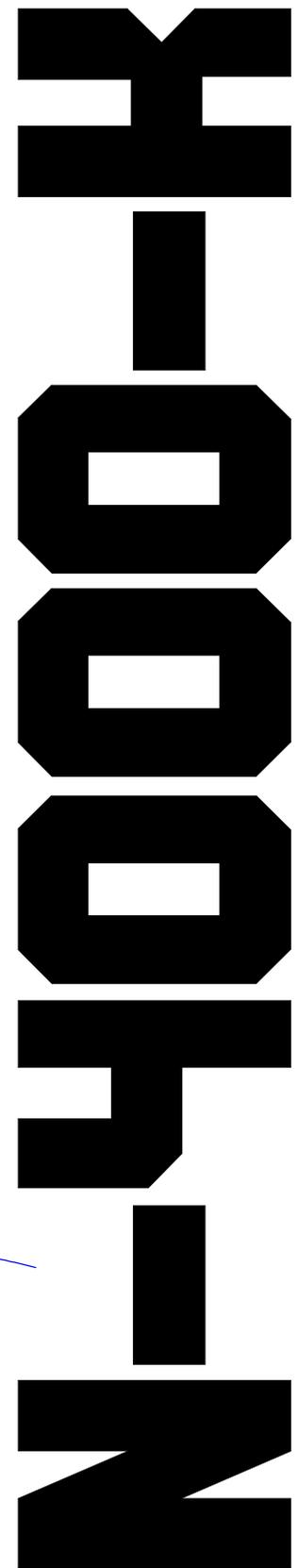
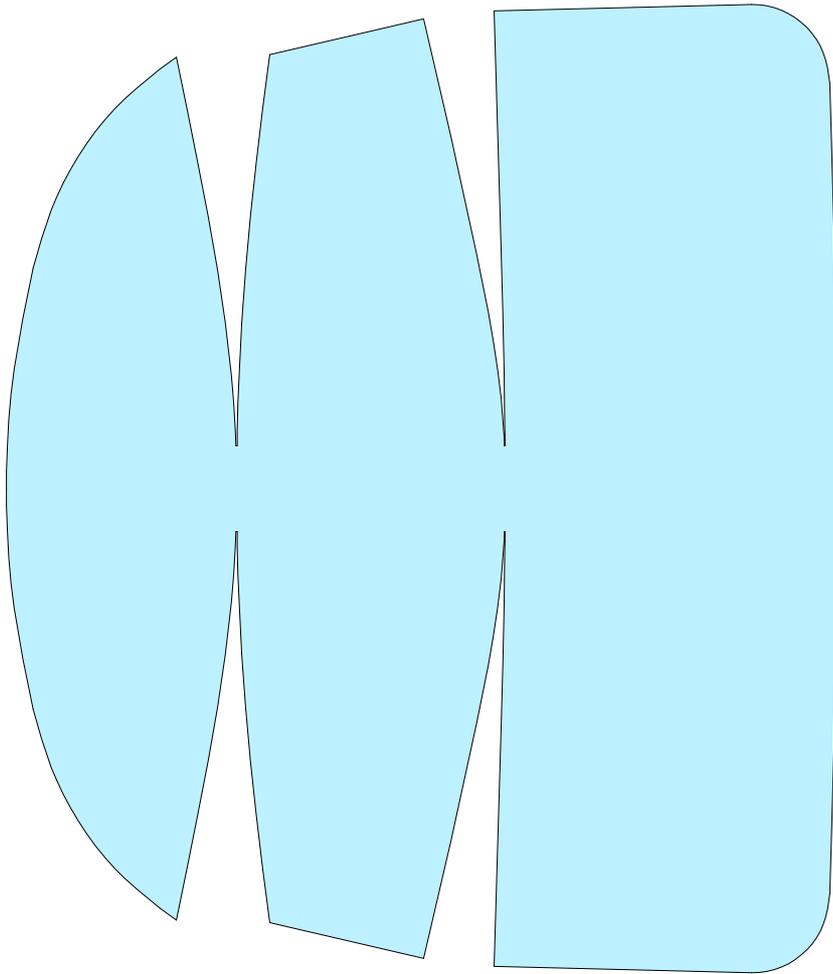
Sweet Pea



N-4000-K



Farbcodes:
 Basisfarbe: RAL 1015 Hellelfenbein
 Grün: RAL 6002 Laubgrün
 sowie schwarze und weiße Beschriftung,
 und Kabinenhaube nach Belieben



Die abgebildeten Elemente gibt es als .studio3-Plot-Dateien unter www.lange-flugzeit.de

The elements like shown above are available as .studio3 plot files at www.lange-flugzeit.de