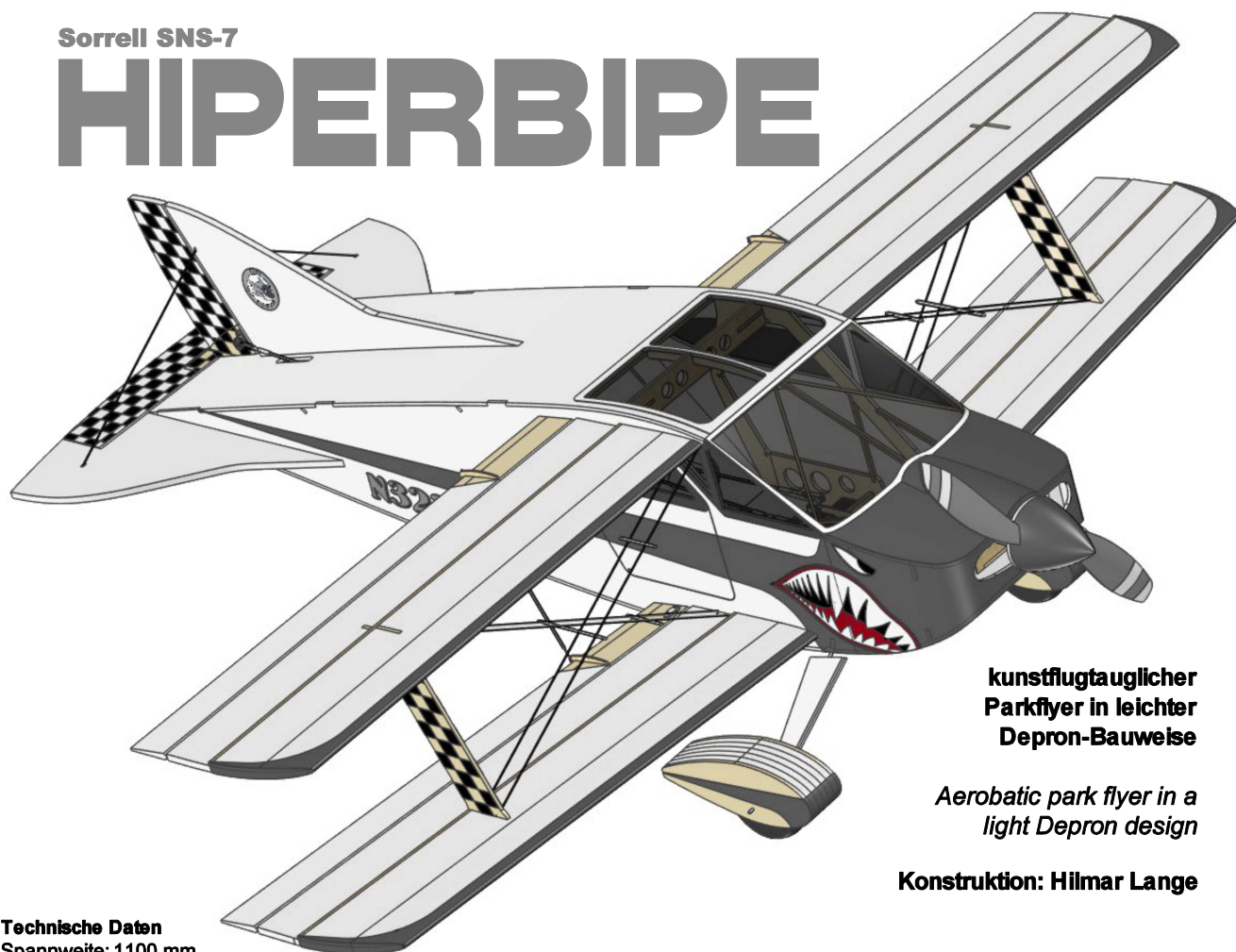


Sorrell SNS-7

HIPERBIPE



**kunstflugtauglicher
Parkflyer in leichter
Depron-Bauweise**

*Aerobic park flyer in a
light Depron design*

Konstruktion: Hilmar Lange

Technische Daten

Spannweite: 1100 mm
Gewicht: 720 - 800 g
Motor: ROXXY BL Outrunner C28-34-750kV, 67g, Multiplex # 314960
Steller: ab 30 A
Propeller: APC 11x7 SF - 12x6 SF
Akku: 3S 1200-1800 mAh LiPo
Servo: 4x 13,6 g / D-Power DS-220 BB MG (alternativ: 9-g-Servos)
Empfänger: 6-Kanal
Funktionen: Höhe / Seite / Quer / Flaps / Motor
Profil: KFM-2

Ruderausschläge / deflections

QR / aileron: 20 mm
SR / rudder: 30 mm
HR / elevator: 20 mm
QR als Flaps: -10 mm (keine
Höhenruder-Kompensation nötig)
set ailerons as flaps 10 mm down.
No elevator compensation necessary.

**Eine vollständige Teilleiste befindet sich
im Anhang auf Seiten 42/43.**

Darüberhinaus empfehlen sich folgende
Zubehörteile:

4x Ruderhorn Multiplex
(Größe 1 / #703022)

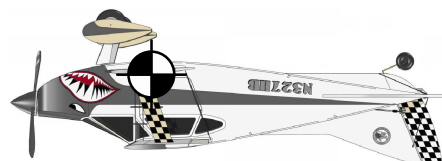
Anlenkungen:
3x Gabelkopf /
1x Kugelkopf

ca. 24x Vlies-Scharnier

18x Neodym-Rundmagnet
3 mm x Ø 3 mm

2x Schaumstoff-Leichtrad Ø 70 mm
1x Schaumstoff-Leichtrad Ø 40 mm

sowie weiße Klebefolie für die
Scheibenrahmen, Overheadfolie
(3x Din A4), evtl. Tönungsfolie aus dem
KFZ-Zubehör



Der Schwerpunkt

ist auf Seite 3 eingezeichnet. Das Modell
lässt sich am Besten auf dem Kopf
auswiegen.

**The center of gravity is drawn on page 3.
The model is best weighed upside down.**

**Der Bauplan ist chronologisch
verfasst.** Die Teile sind dort
gezeichnet, wo sie benötigt
werden.

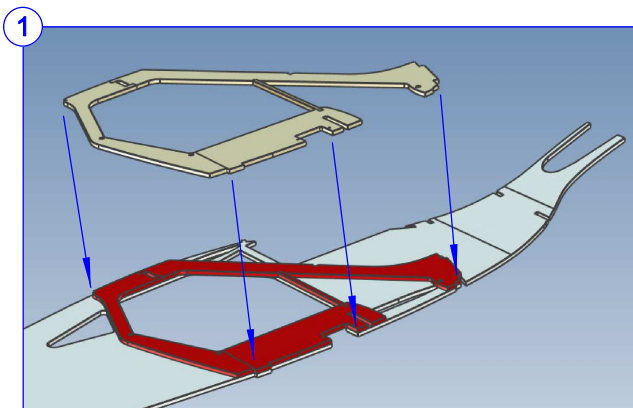
Jedes Bauteil besitzt eine Zahl,
die auf den dazugehörigen
Bauschritt und dessen
Abbildung verweist.

**The plan is written
chronologically.** The parts are
drawn where they are needed.
Each component has a number
which refers to the
corresponding construction
step and its illustration. Each
component has a number that
refers to the
associated construction step
and its illustration.

© 2022 FlugModell

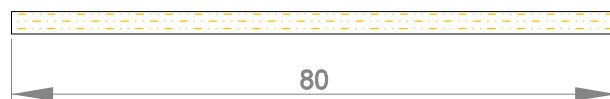
FlugModell-Downloadpläne sind Bestandteil des Magazins und nur für
private Zwecke zu nutzen. Für die gewerbliche Herstellung der
Bauplanmodelle oder von Teilen davon ist eine Genehmigung durch den
Verlag Wellhausen & Marquardt Medien erforderlich.





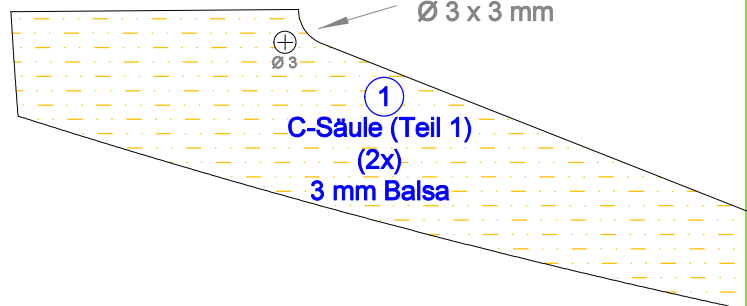
| | | | | |
|---|---|---|---|---|
| 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|

1 Türstrebe (2x)
□ 3 x 3 mm Kiefernstab



Magnet
Ø 3 x 3 mm

1
C-Säule (Teil 1)
(2x)
3 mm Balsa



Ausschnitt nur in
LINKER Seitenwand!
*cutout on LEFT
part only!*

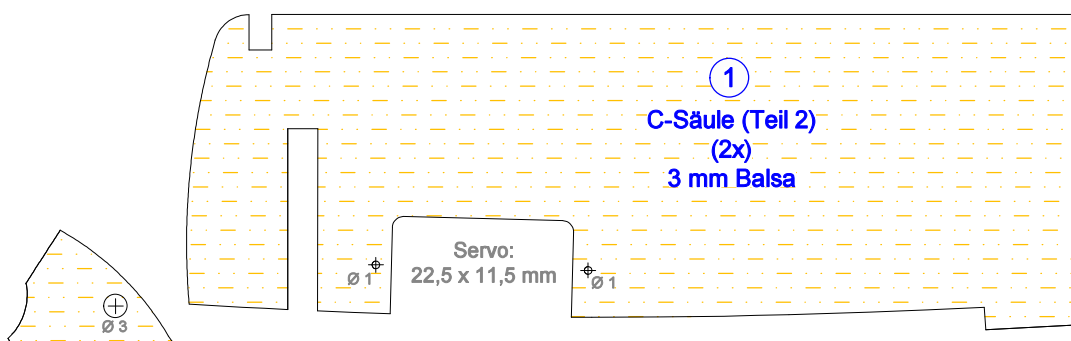
Ausschnitt nur in
RECHTER
Seitenwand!
*cutout on RIGHT
part only!*

Ausschnitt nur in LINKER
Seitenwand!
*cutout on LEFT
part only!*

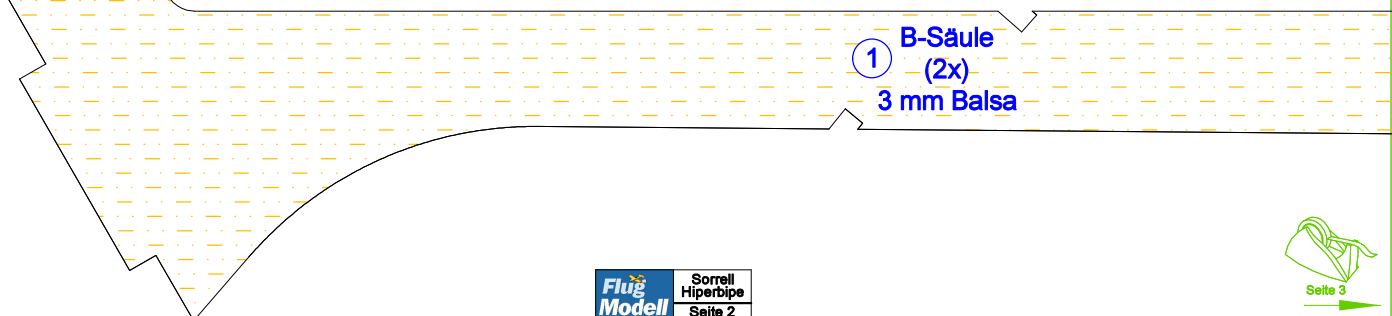
Ausschnitt nur in
RECHTER
Seitenwand!
*cutout on RIGHT
part only!*

1
C-Säule (Teil 2)
(2x)
3 mm Balsa

Servo:
22,5 x 11,5 mm



1 B-Säule
(2x)
3 mm Balsa



Magnet
Ø 3 x 3 mm

Ø 3

Tür 8 heraustrennen

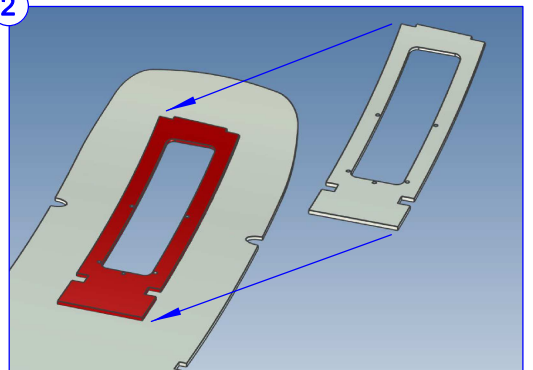
cut out door

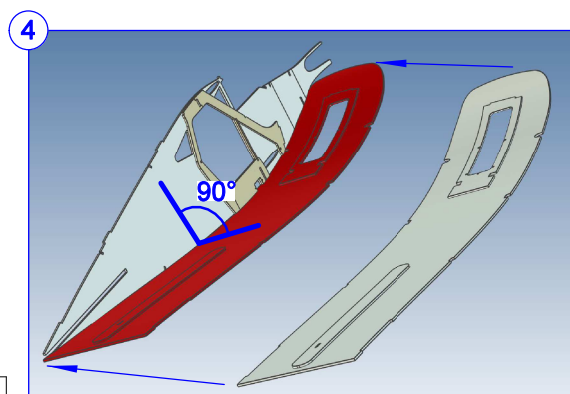
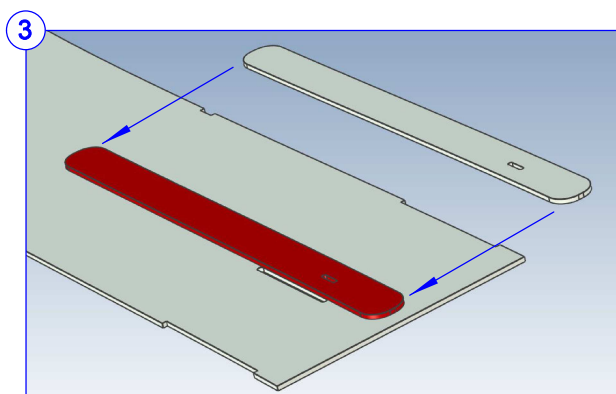
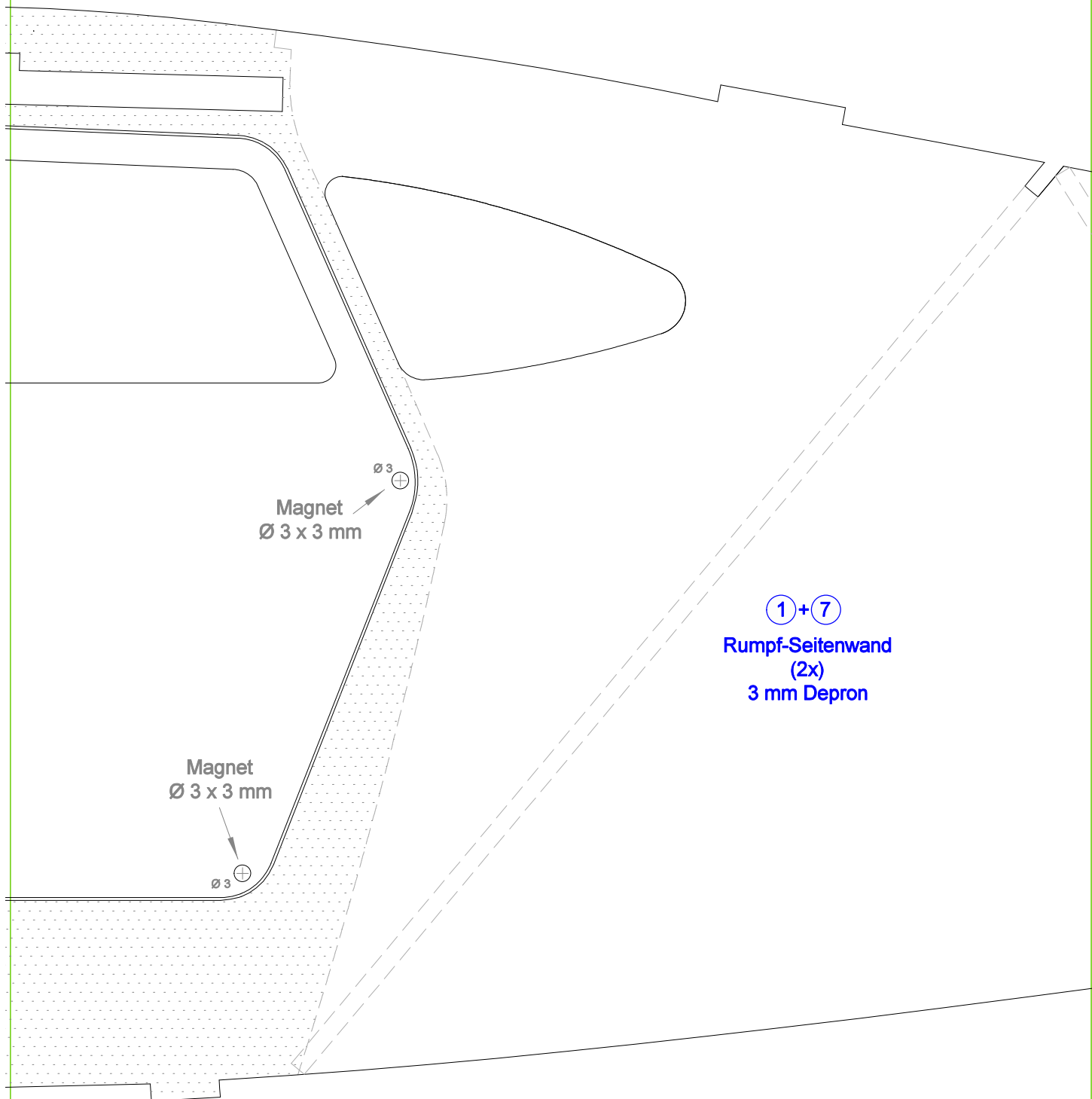


Schwerpunktbereich
center of gravity

12

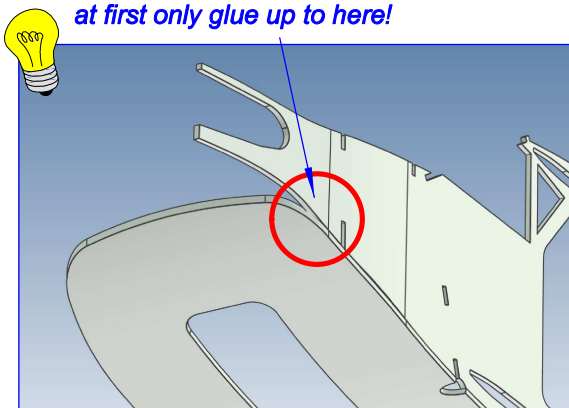
2





③ Seitenfinnen-Anschlag
3 mm Depron

zunächst nur bis hier verleimen!
at first only glue up to here!



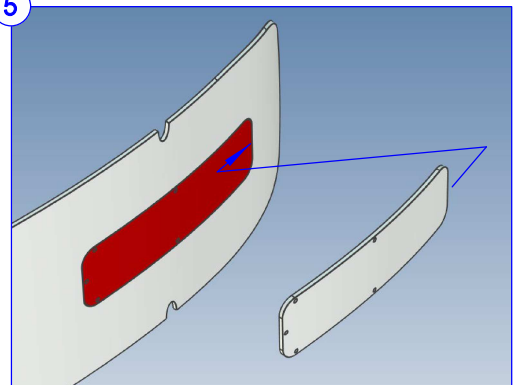
rechts
right

links
left

Akkuklappe
anscharnieren

*hinge battery
compartment lid*

5



5x Magnet
Ø 3 x 3 mm

2

Akkufach-
Rahmen
3 mm Depron



- | |
|----|
| 7 |
| 8 |
| 9 |
| 10 |

links
left

rechts
right

Akkuklappe 5 herausschrauben
cut out battery compartment lid

5x Magnet
Ø 3 x 3 mm



Seite 8



4

Rumpfboden
3 mm Depron

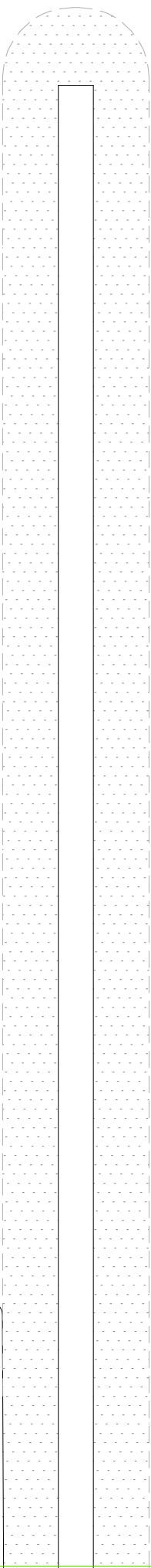


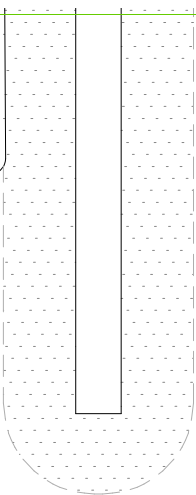
Seite 8



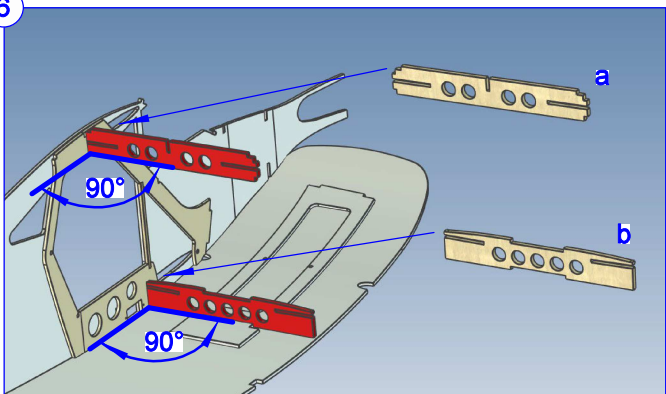
Seite 10

Durchführung für HLW-
(auf LINKER Seite)

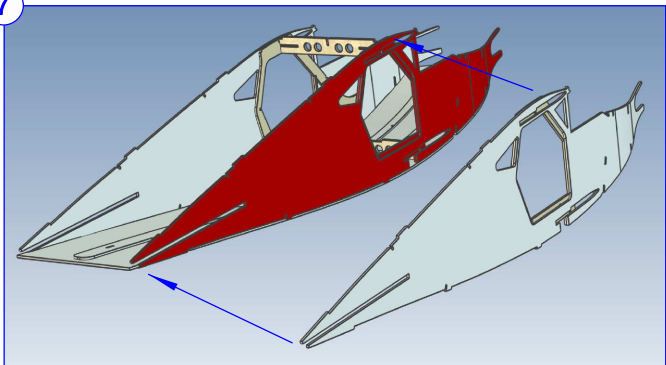




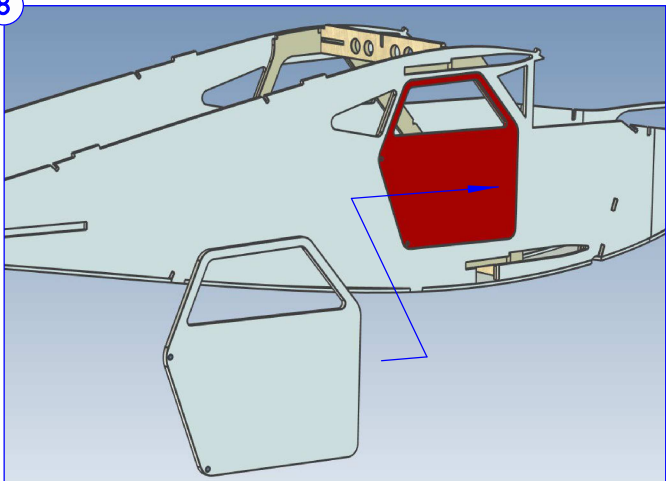
6



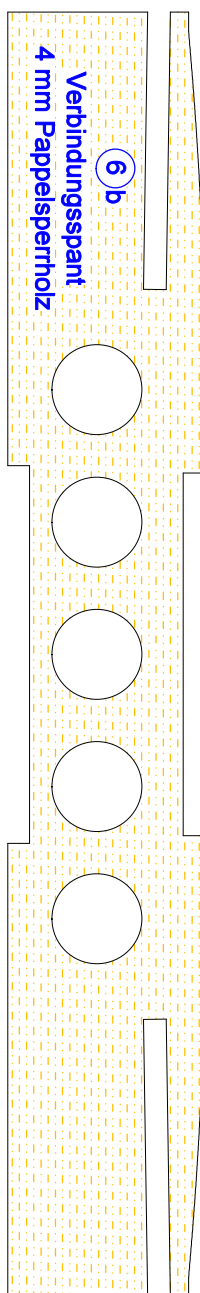
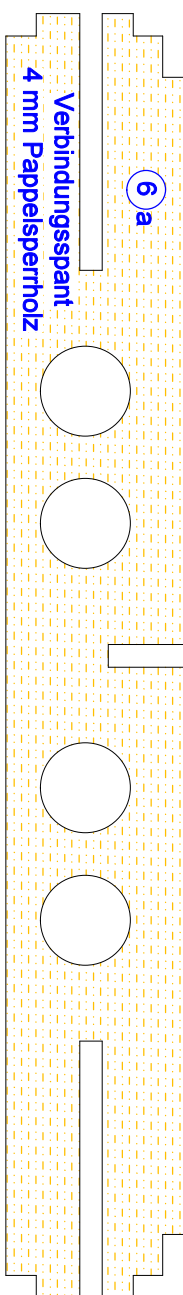
7

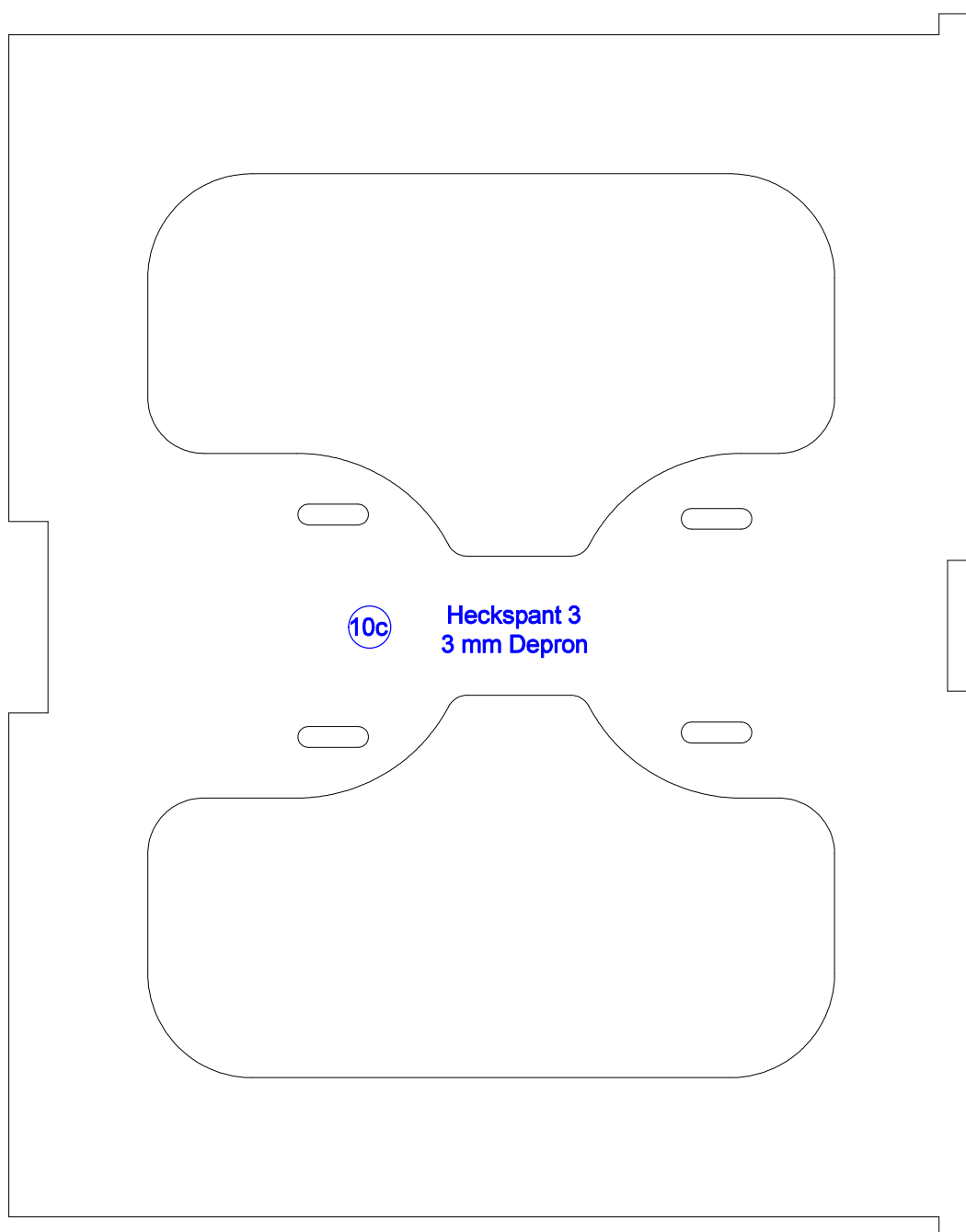
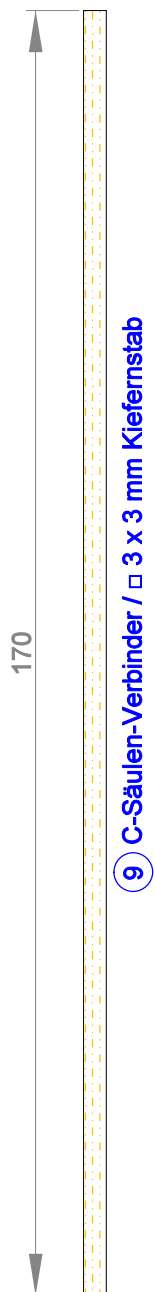
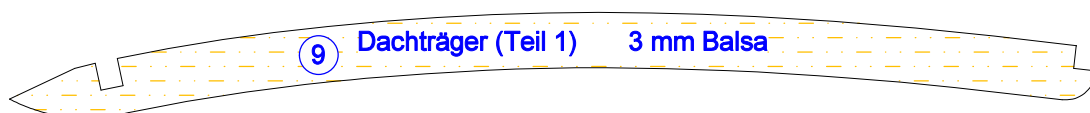
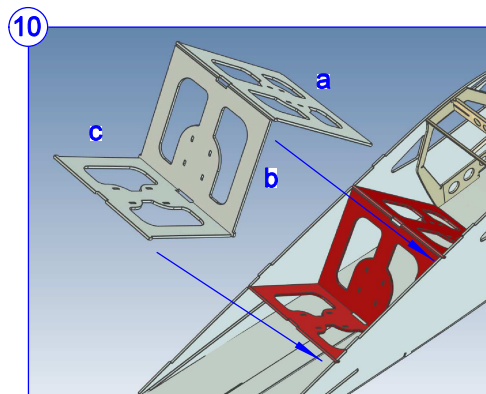
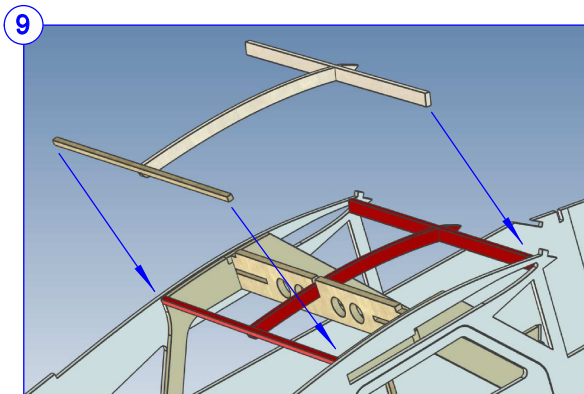


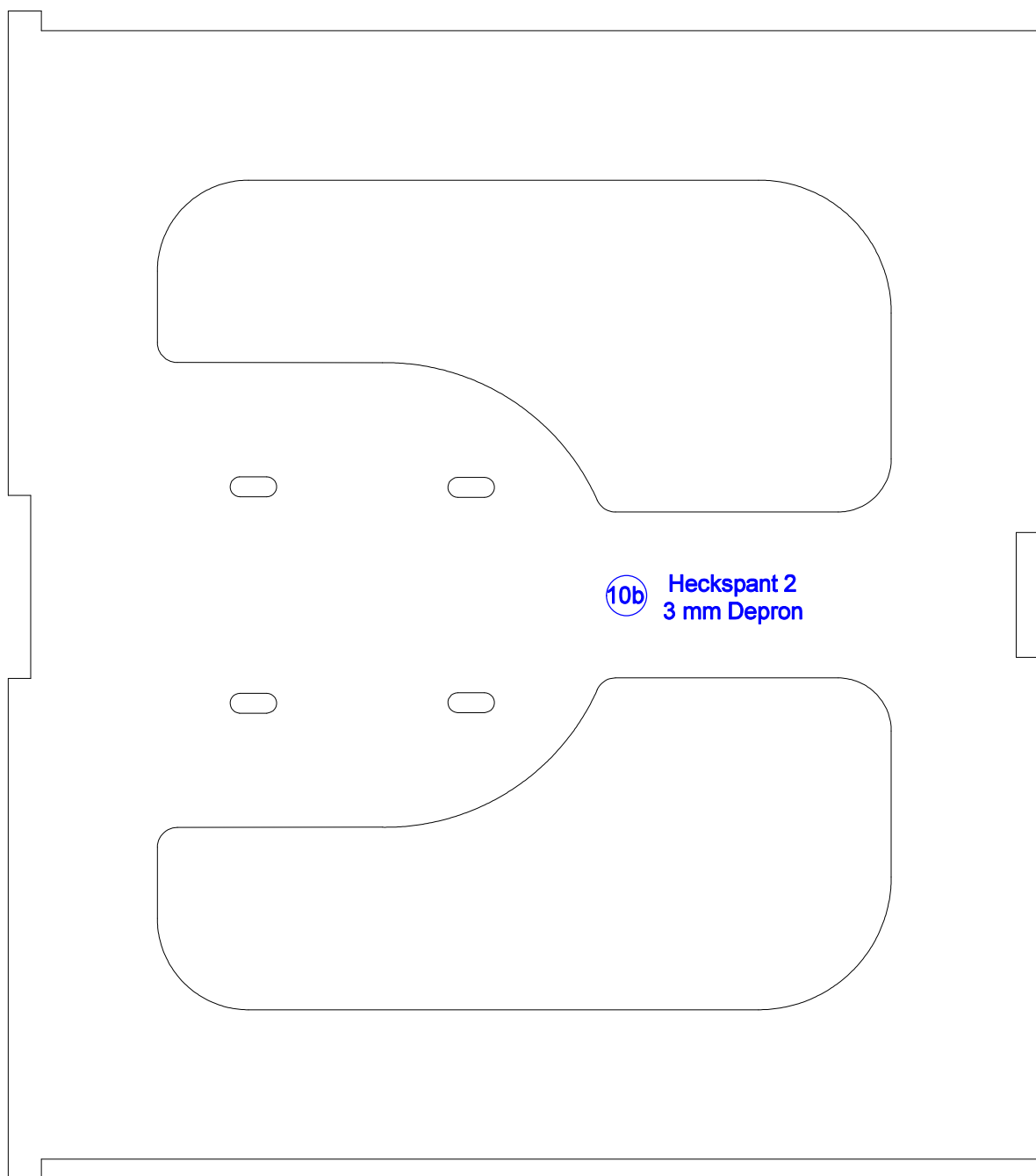
8



Türen anschamieren / hinge doors





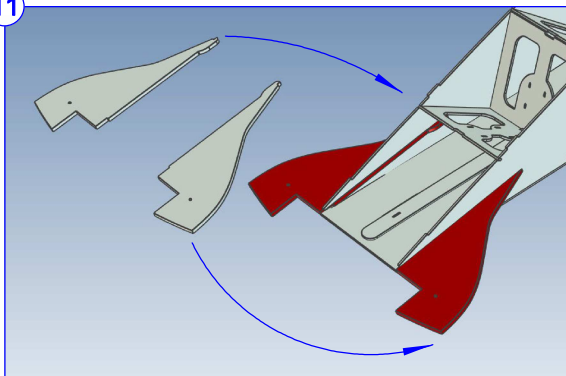


10a Heckspant 1
3 mm Depron

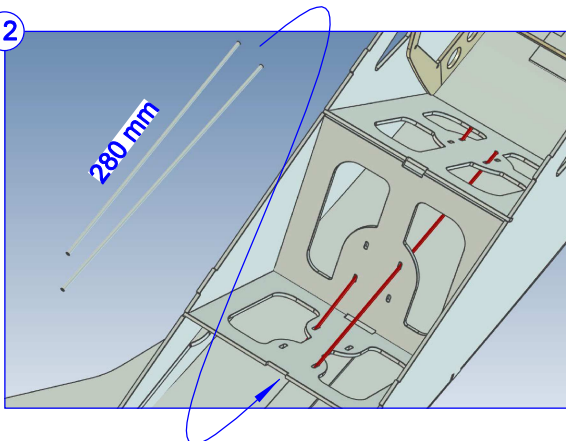
⑪

Höhenleitwerkshälfte
(2x)
6 mm Depron

⑪



⑫

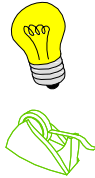
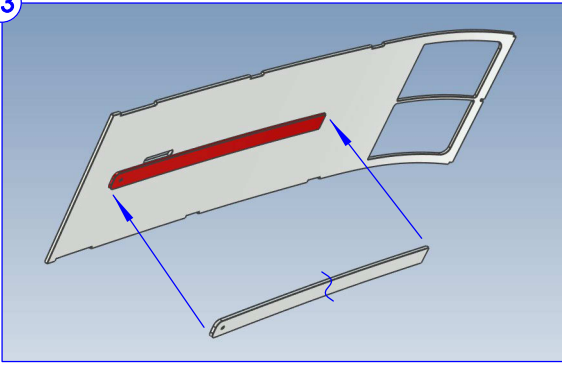


Bowdenzug-Außenrohre
PVC oder ABS
innen-Ø 2,1 mm / außen-Ø 3 mm

rechts = Seitenruder = obere Löcher
links = Höhenruder = untere Löcher

right = rudder = upper holes
left = elevator = lower holes

13

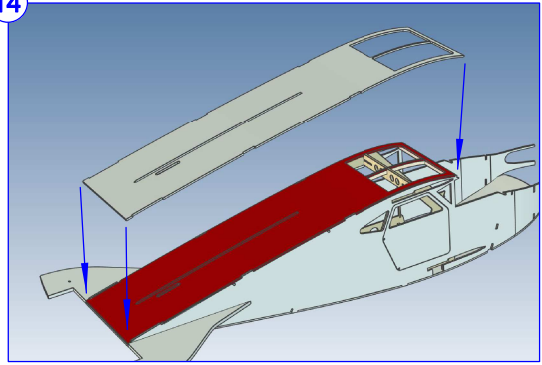


15

16

17

14

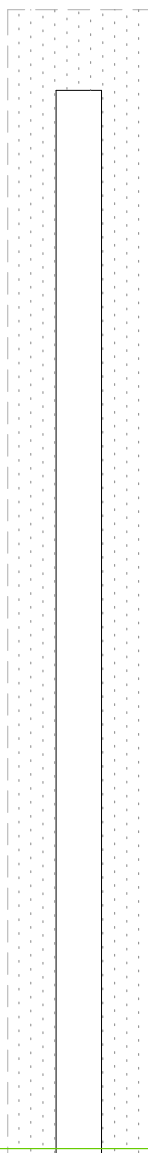


13 Seitenleitwerks-Anschlag
3 mm Depron

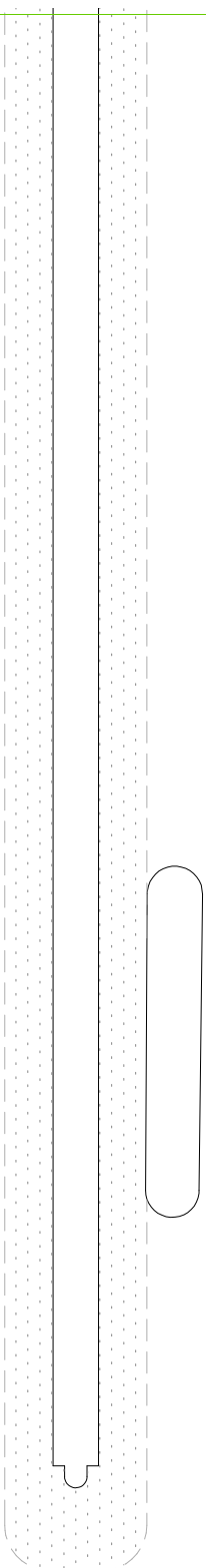
Seitenleitwerks-Anschlag 13
3 mm Depron

13

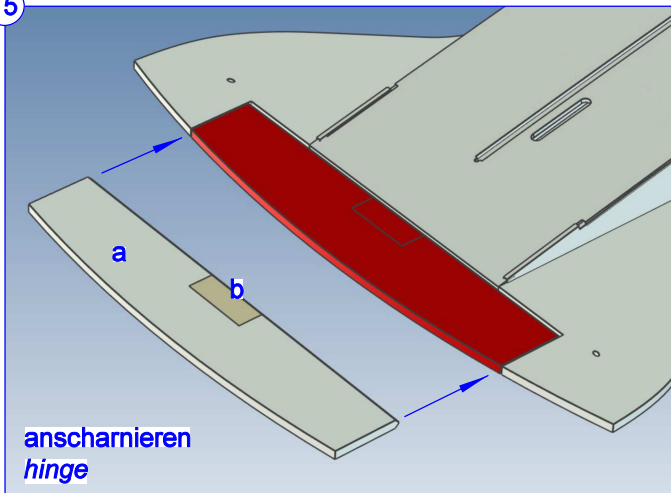
Rumpfücken
3 mm Depron



Durchführung für SLW-Anlenkung
(auf RECHTER Seite!)



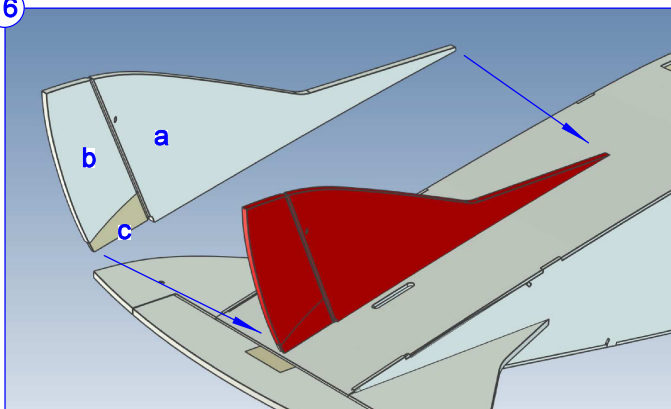
15



18

19

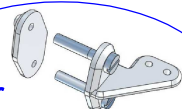
16



15a

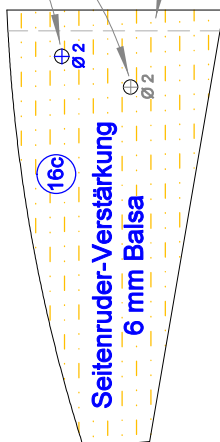
Höhenruder
6 mm Depron

beidseitig anschrägen / bevel on both sides



für
Ruderhorn Multiplex
Größe 1 / #703022

beidseitig anschrägen
bevel on both sides

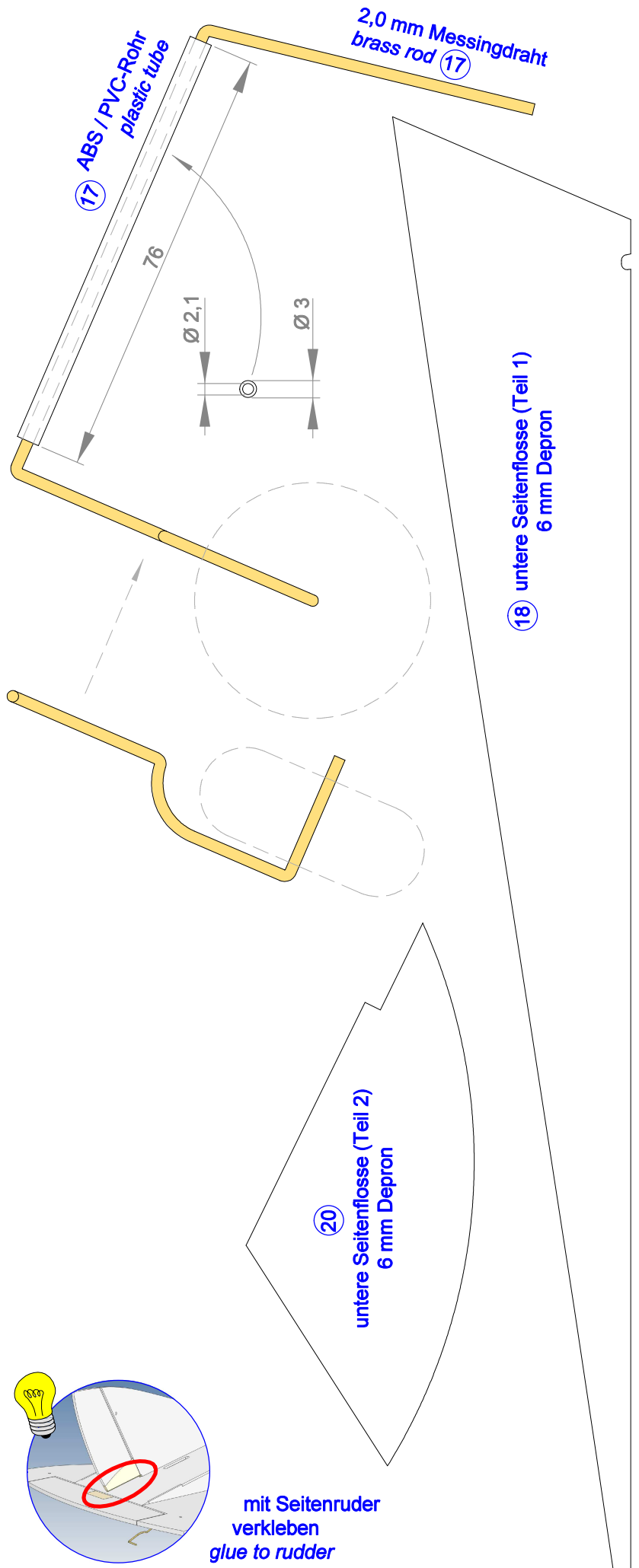
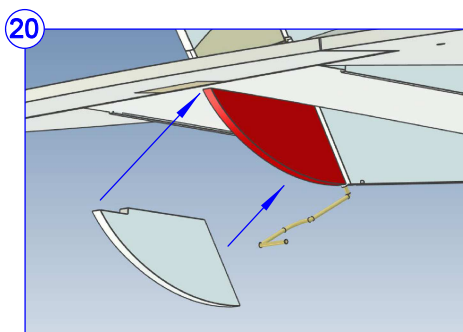
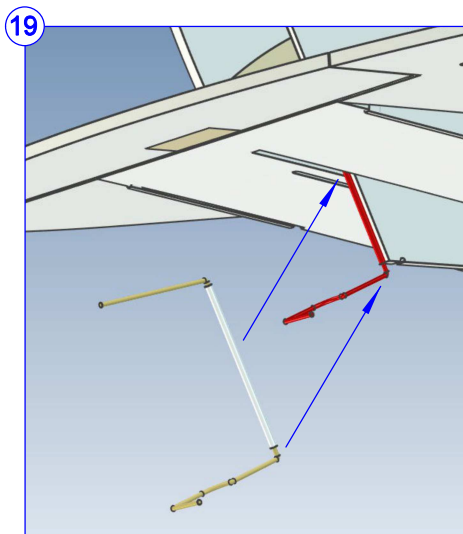
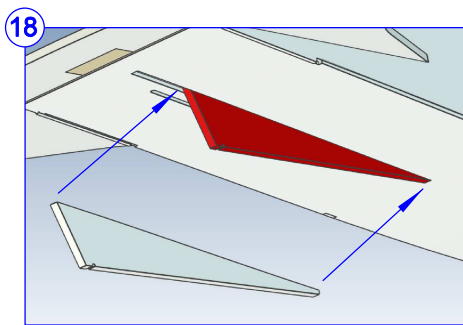
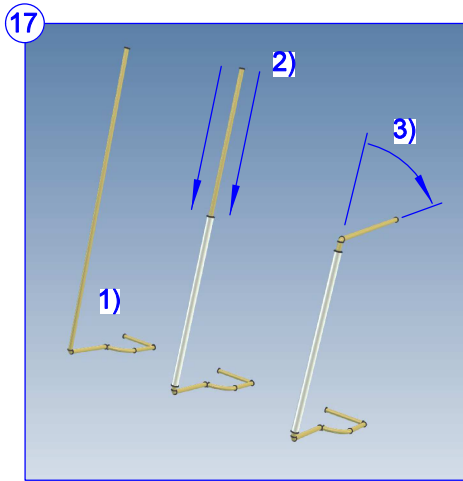


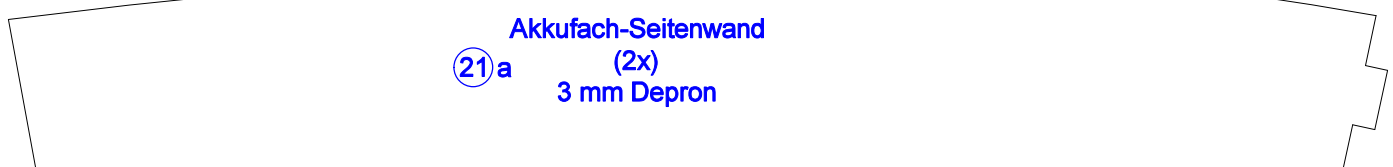
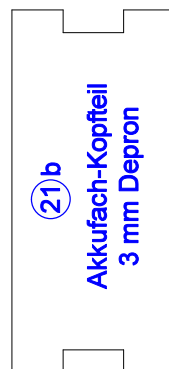
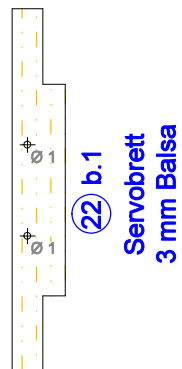
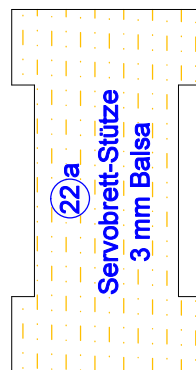
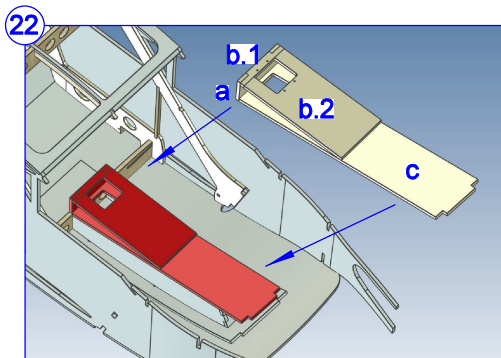
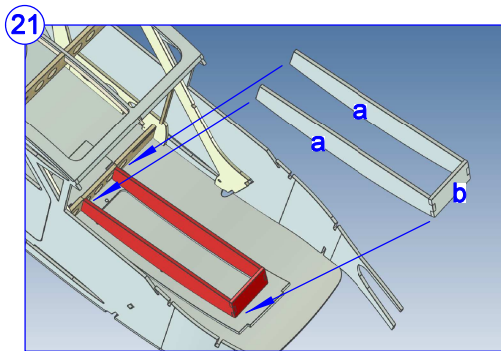
beidseitig anschrägen / bevel on both sides

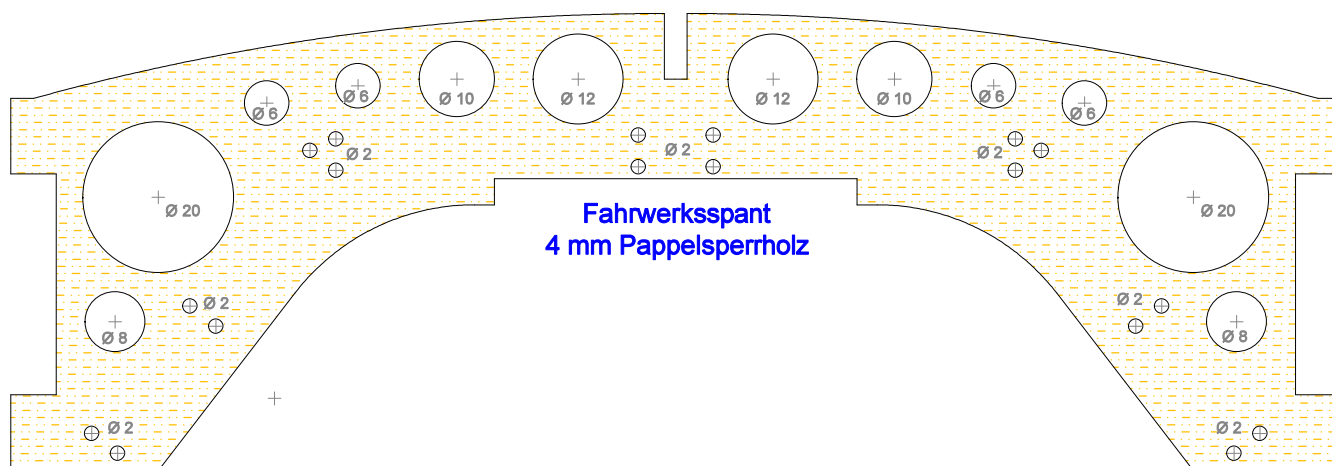
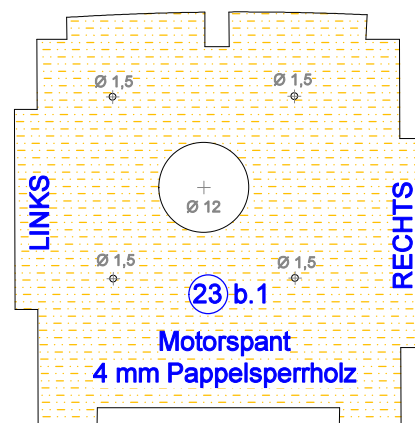
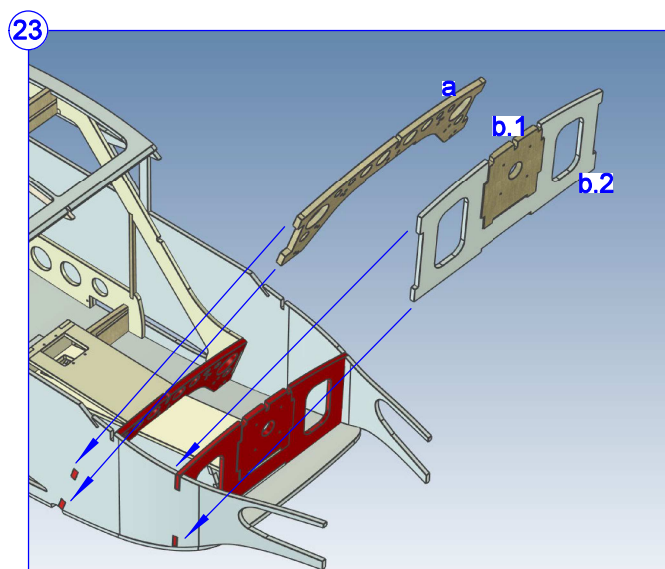
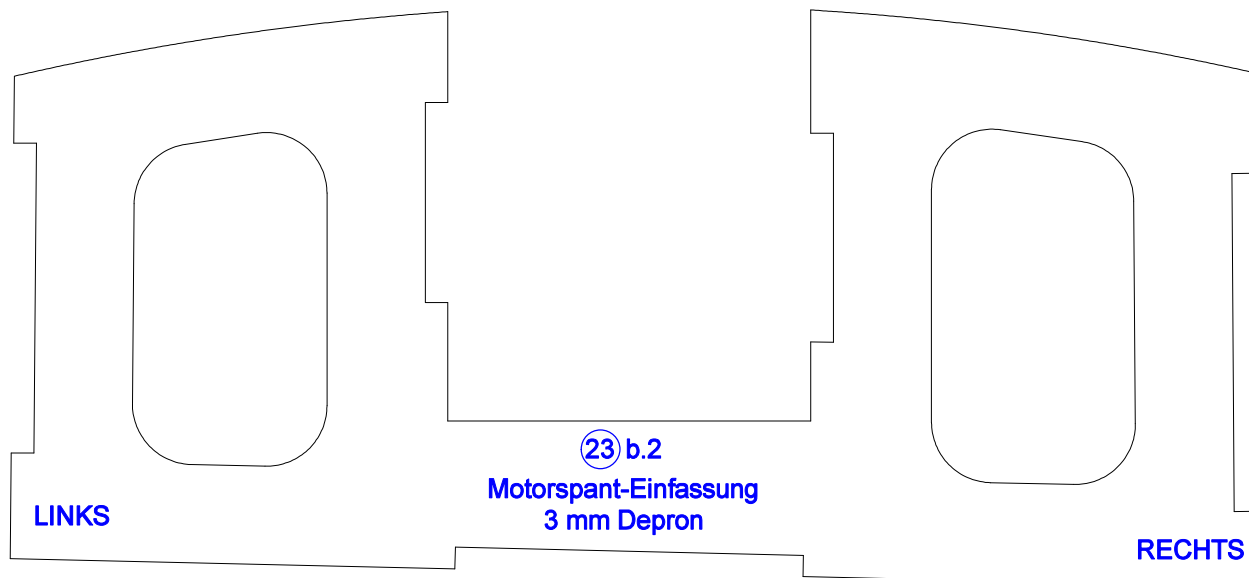


Seite 19



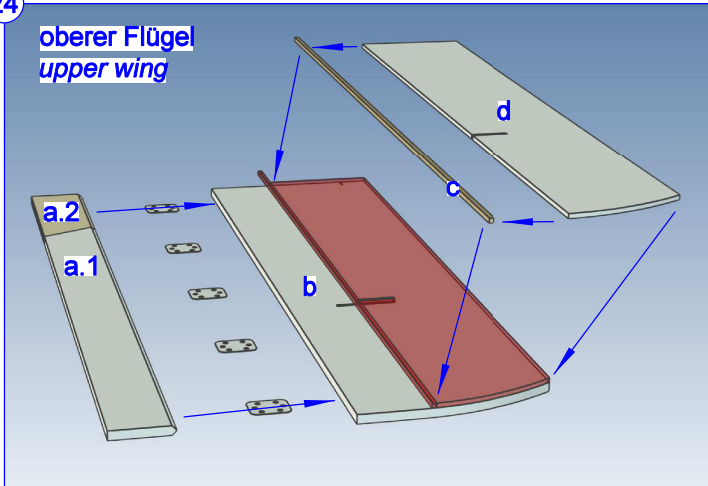






24

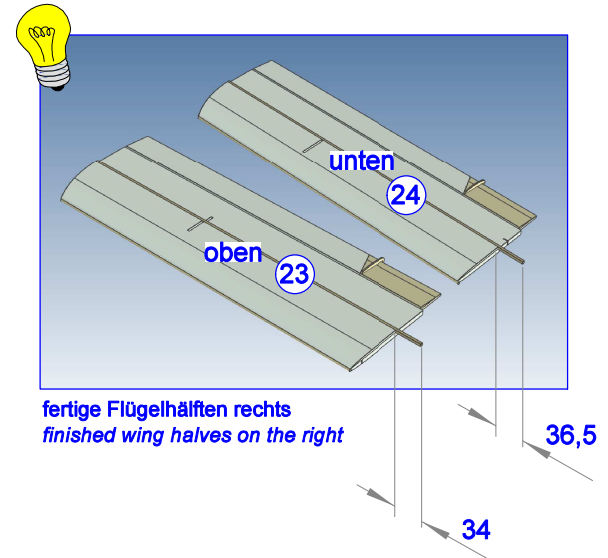
oberer Flügel
upper wing



- a.1 + a.2 - Querruder / aileron
- b - Flügel-Basisteil / wing base part
- c - Holm / wing spar
- d - Flügel-Aufdoppler / wing doubler

Abbildung links zeigt den oberen Flügel.
Vorsicht: verwechseln Sie nicht die oberen (23) und die unteren Teile (24)!

Left image shows the upper wing.
Caution: do not confuse the upper (23) and lower parts (24)!

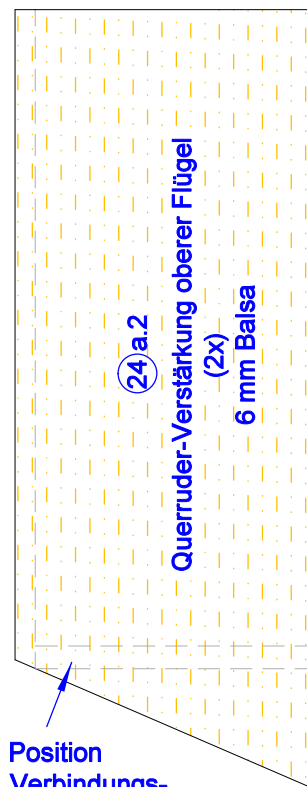


fertige Flügelhälften rechts
finished wing halves on the right

23

24

24 d
Flügelaufdoppler
oberer Flügel
(2x)
3 mm Depron



Position
Verbindungs-
horn (26)
Position of
connecting
horn (26)



Seite 23

②4a.1
Querruder
oberer Flügel
(2x)
6 mm Depron



25

26

24c

Holm oberer Flügel (2x)

□ 3 x 3 mm Kiefernstab

L=498 mm

24b

Flügelbasisteil
oberer Flügel

(2x)

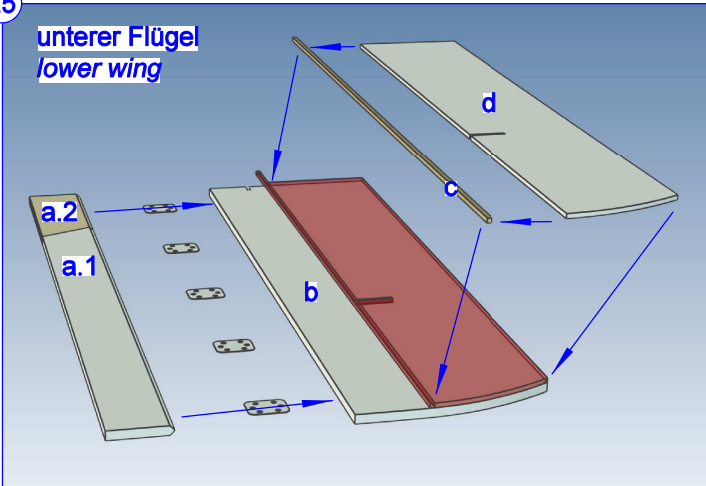
6 mm Depron





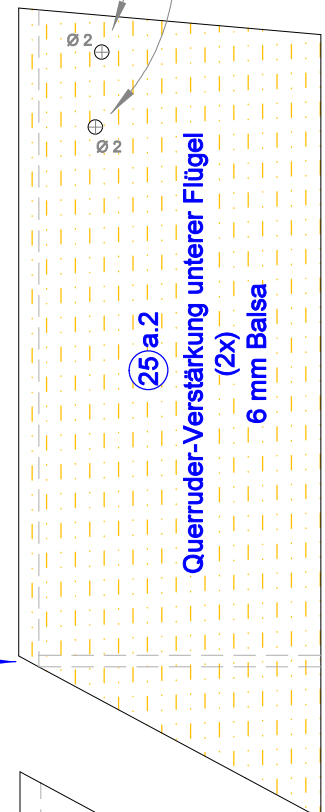
25

unterer Flügel
lower wing



27

28

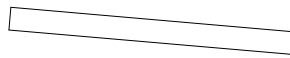


Position
Verbindungs-
horn (26)
Position of
connecting
horn (26)

25 d

Flügelauflappler
unterer Flügel
(2x)
3 mm Depron

25 a.1
Querruder
unterer Flügel
(2x)
6 mm Depron





29

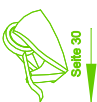
30

25c

Holm unterer Flügel (2x)
□ 3 x 3 mm Kiefernstab
L=498 mm

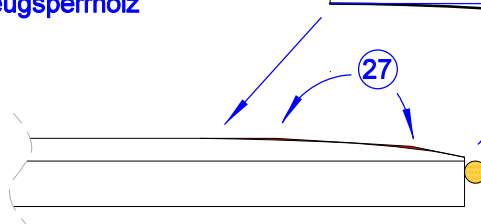
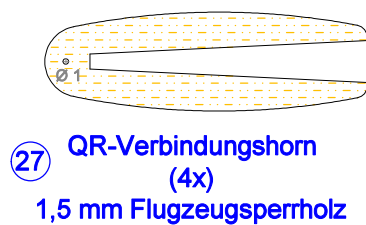
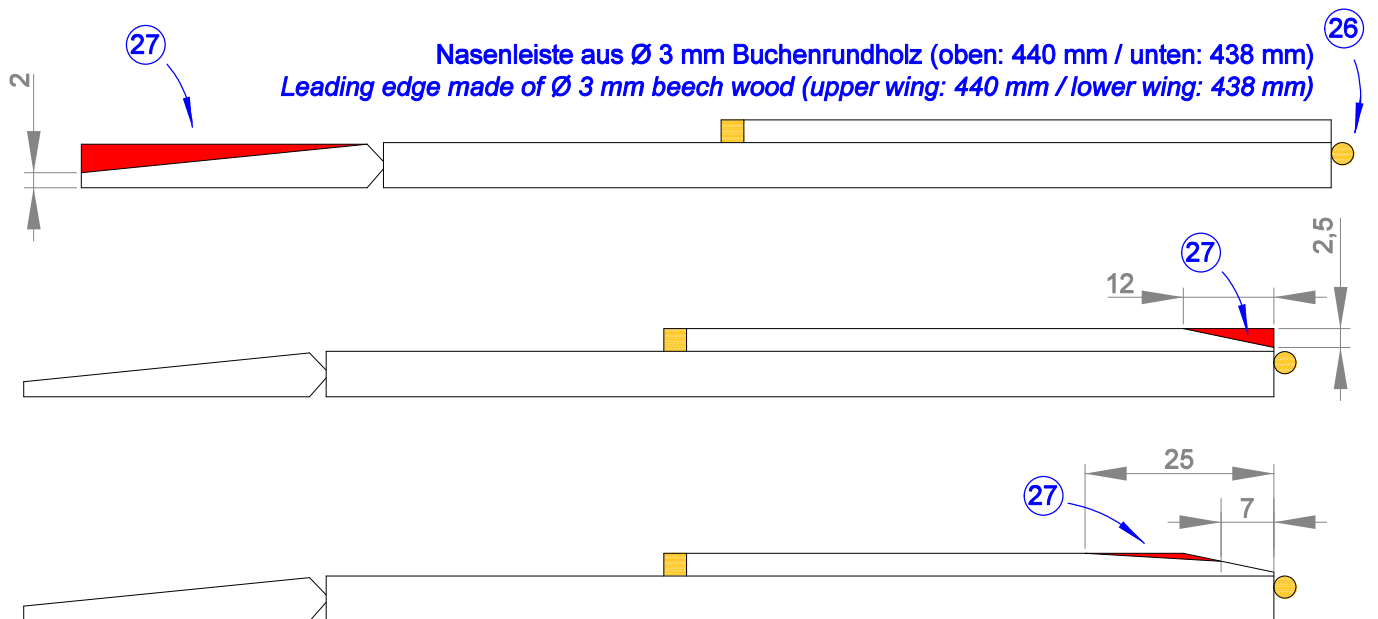
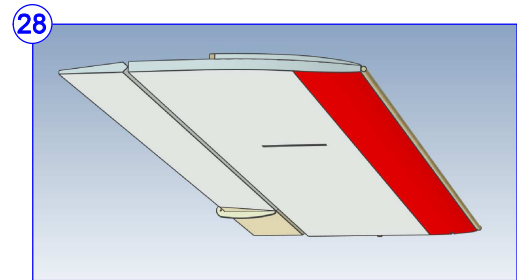
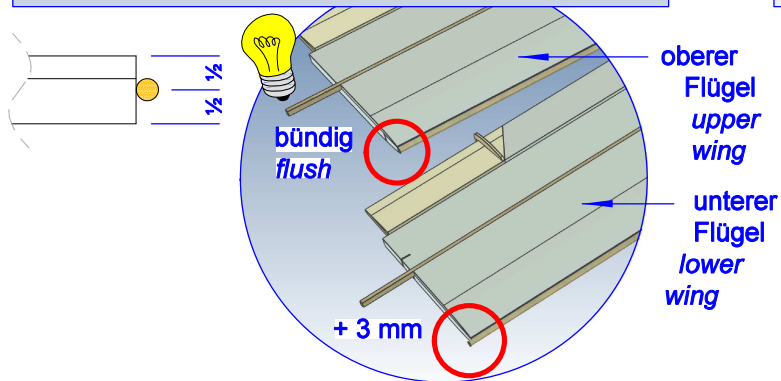
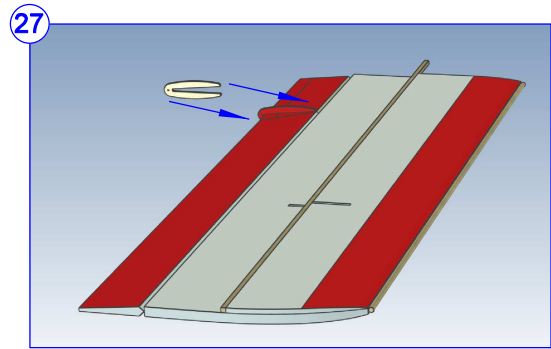
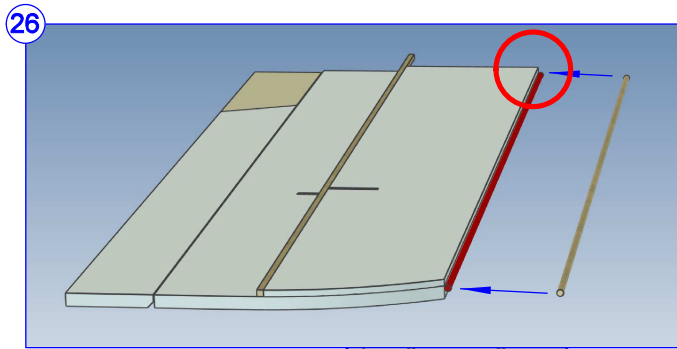
25b

Flügelbasisteil
unterer Flügel
(2x spiegelbildlich)
6 mm Depron



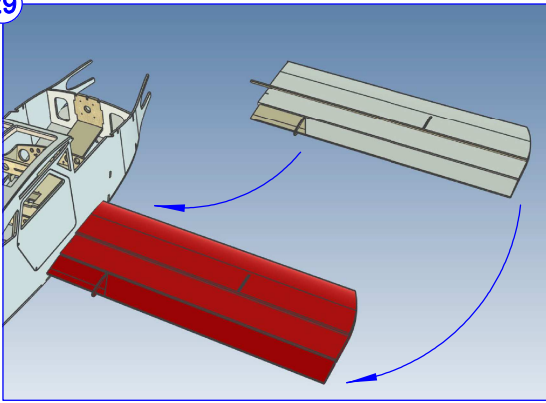
Seite 30
↓



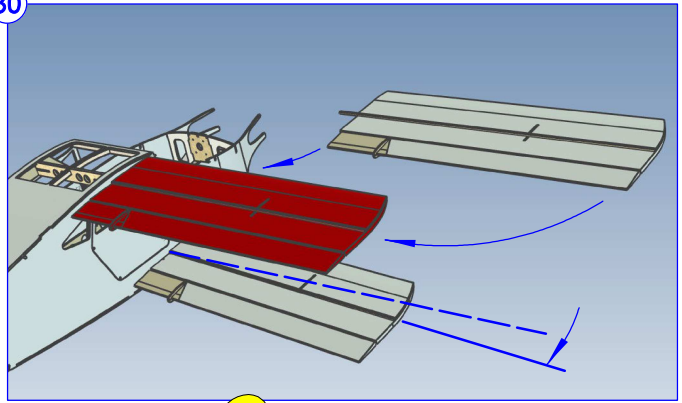


②⑧ Profilschliff an Unterseite wiederholen
Repeat profile sanding on the underside

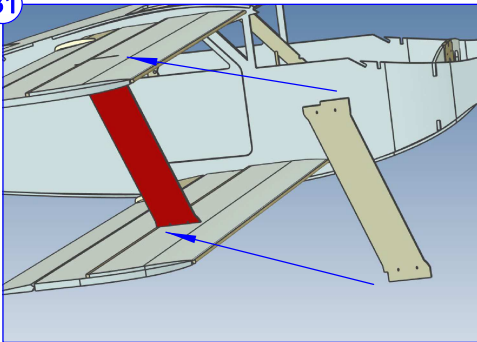
29



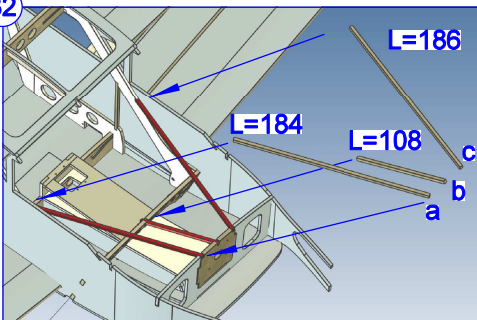
30



31



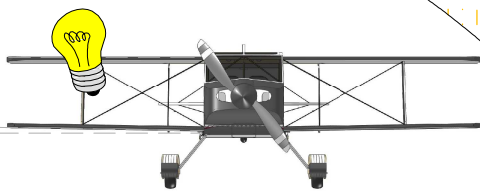
32



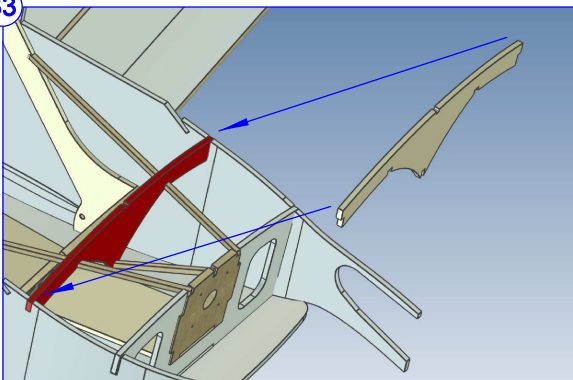
der untere Flügel ist zurückgefeilt.
Lower wing is swept back

0°

1°



33



33
Motorhauben-
stütze
3 mm Balsa

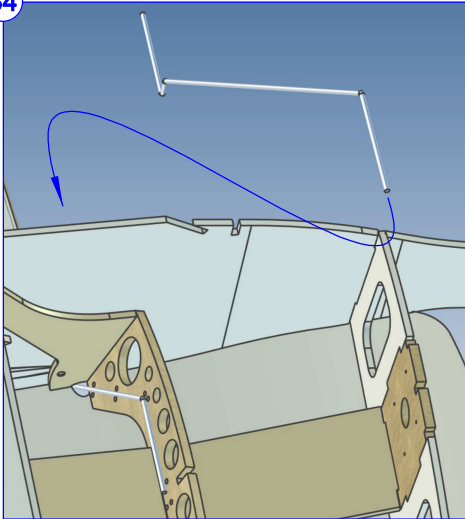
31
Flügelstrebe
(2x)
3 mm Balsa

32

a b c

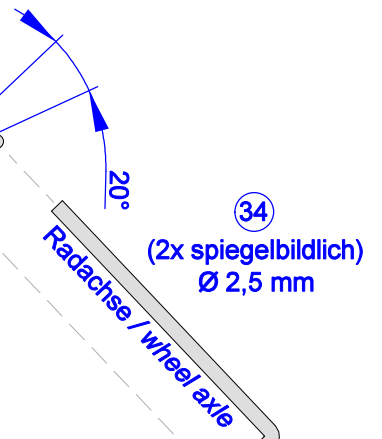
□ 3 x 3 mm Kiefernstab

34



Das Fahrwerk besteht aus 2 Drähten Ø 2,5 mm Federstahldraht, damit sie sich an ihre Position einfädeln lassen können.

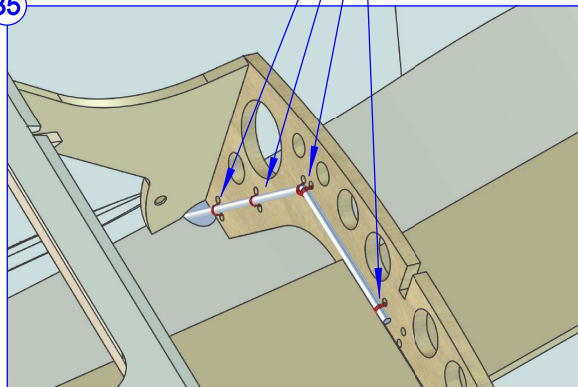
The landing gear consists of 2 parts Ø 2.5 mm spring steel wire so that they can be threaded into their position.



Festnähen und die Wicklungen mit Sekundenkleber tränken

Sew on and soak the windings with superglue

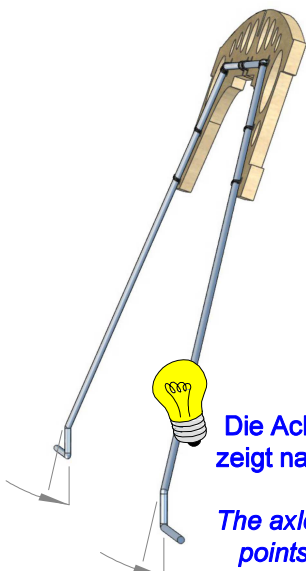
35



Nadel und Faden: verwenden Sie zum Einfädeln ein gebogenes Stück 0,8er Stahldraht.

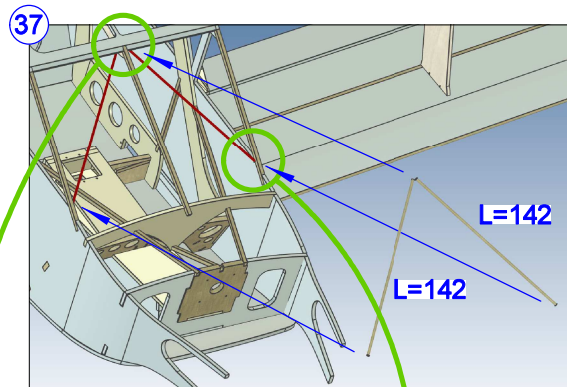
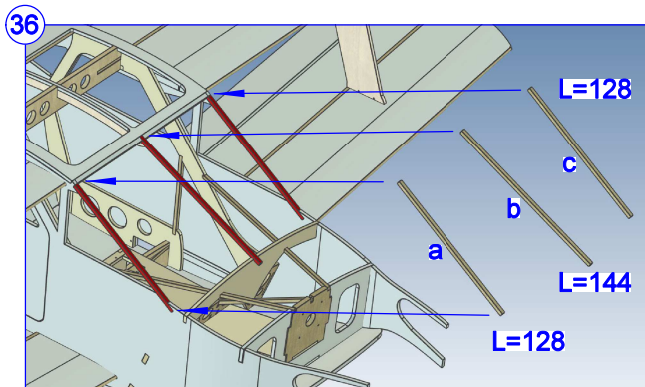
Needle and thread: use a bent piece of 0.8 steel wire for threading.

Flugrichtung
flight direction



Die Achsbiegung zeigt nach vorn

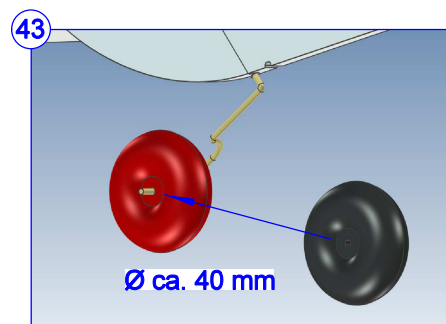
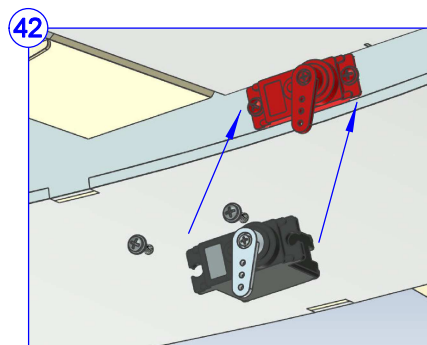
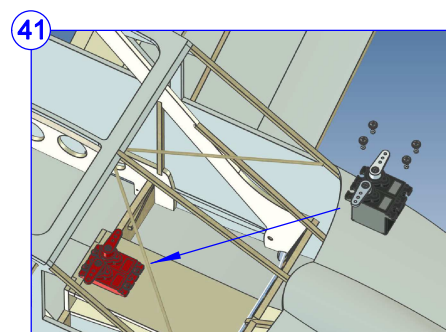
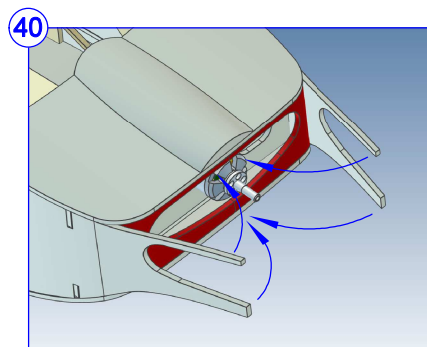
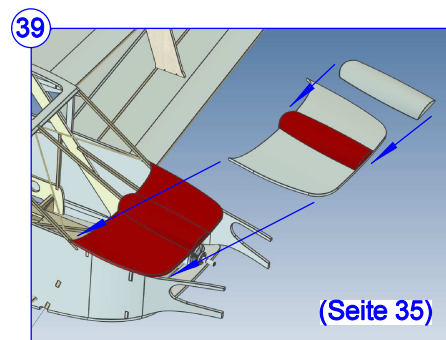
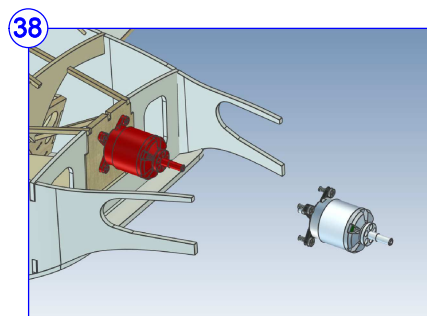
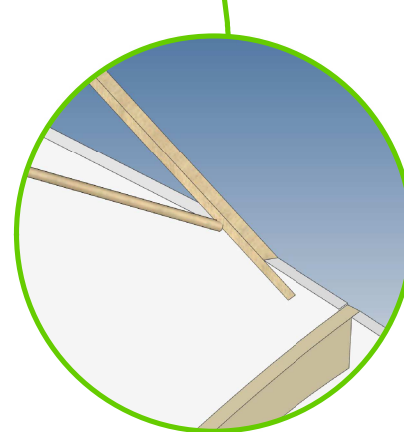
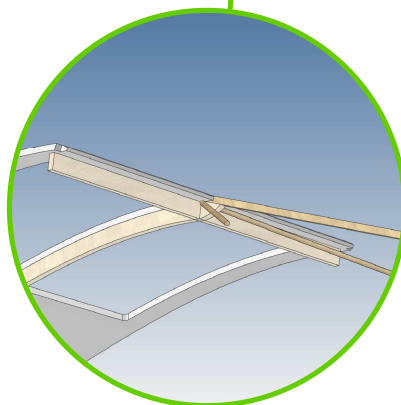
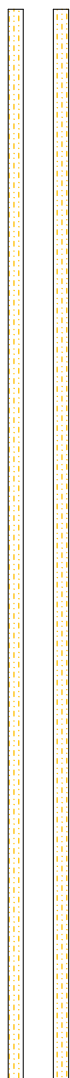
The axle bend points to the front

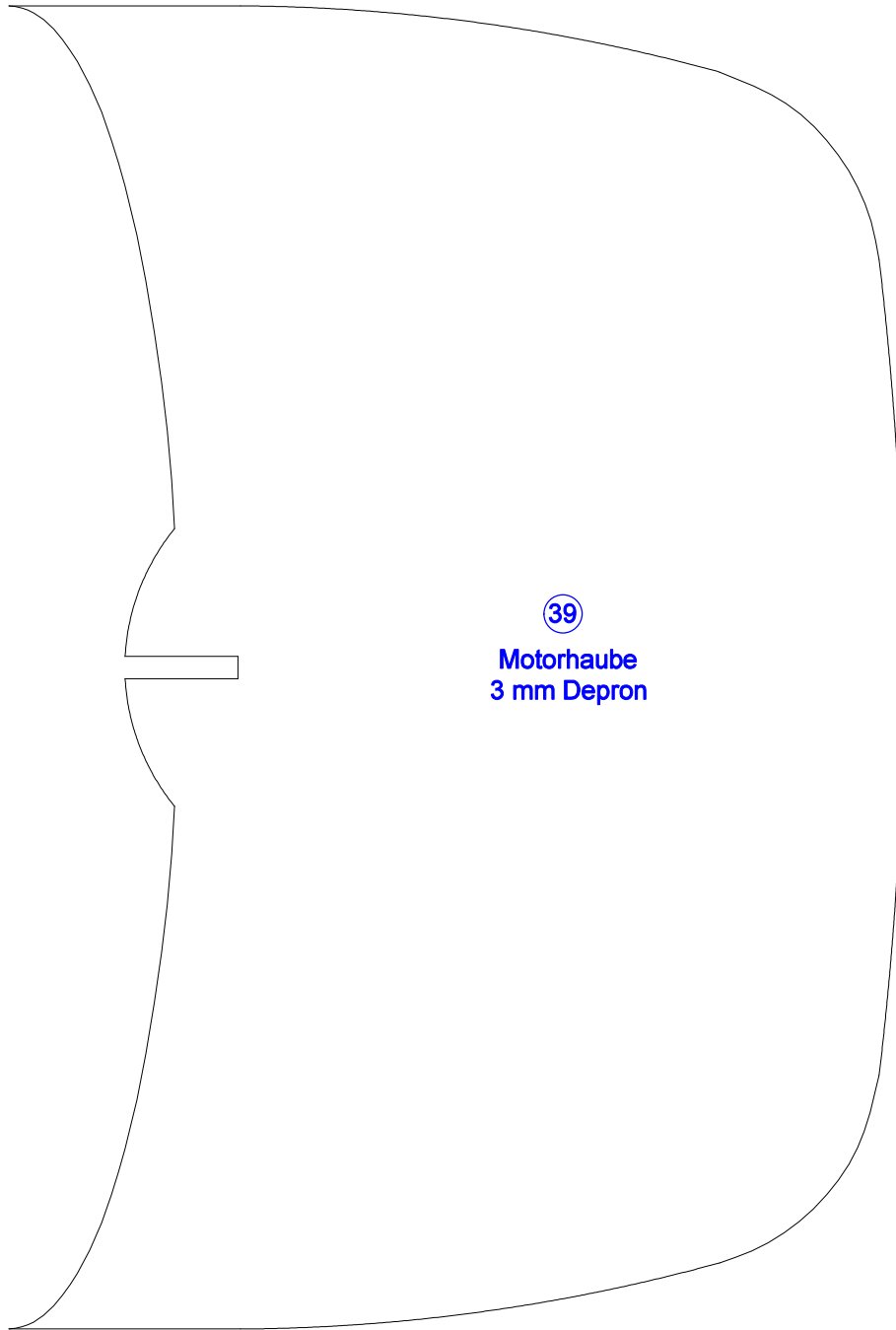


36 □ 3 x 3 mm Kiefernstab



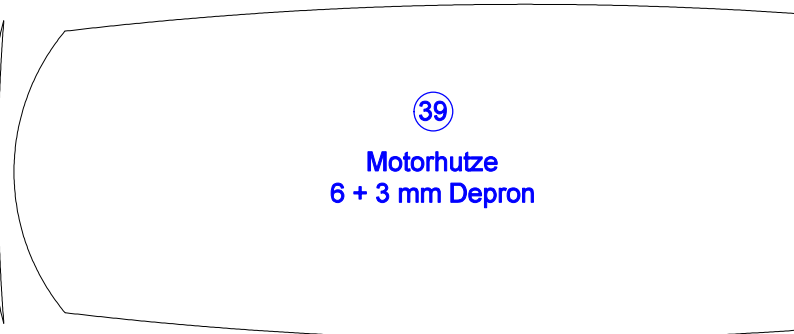
37 Ø 2 mm
Buchenrundstab





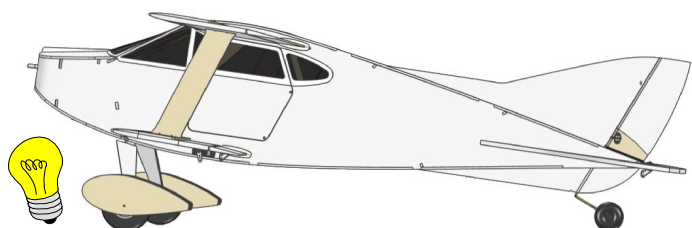
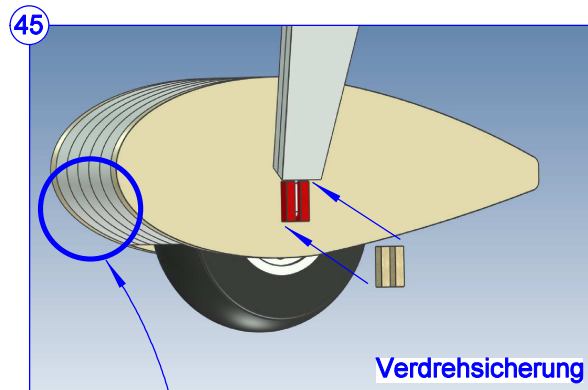
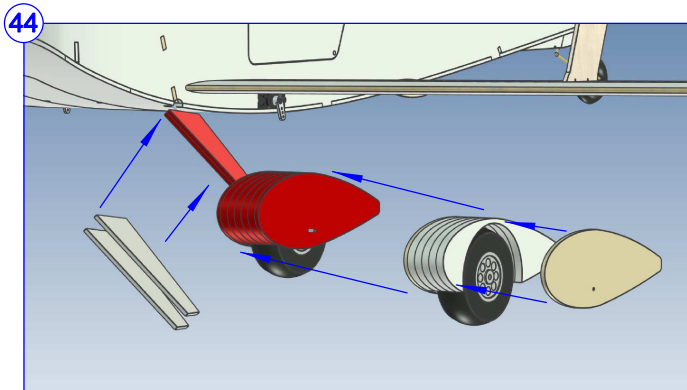
**Motorhaube
3 mm Depron**

Konturschablone hinten



**Motorhutze
6 + 3 mm Depron**

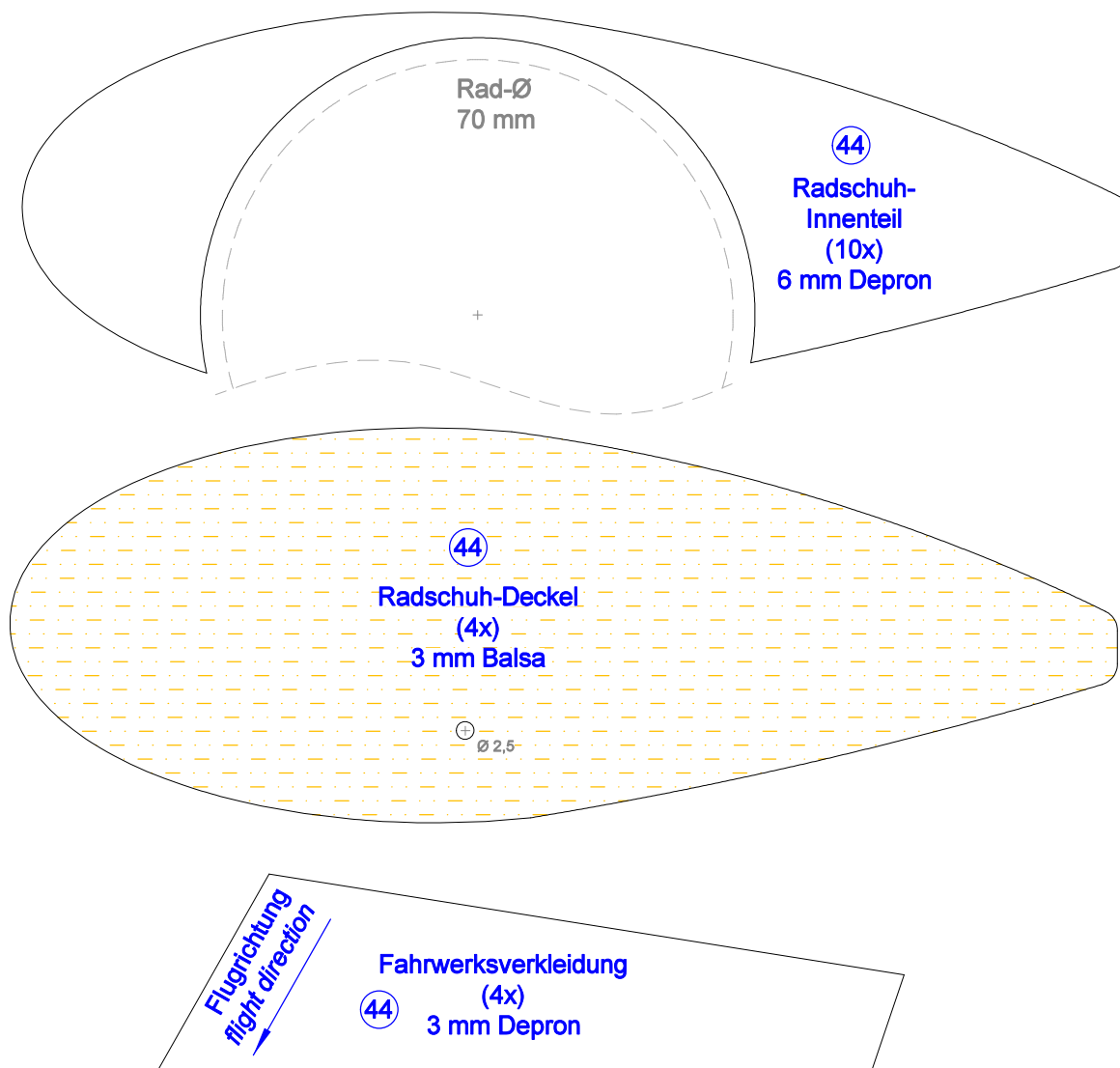
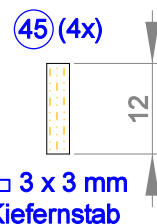
Konturschablone vorne



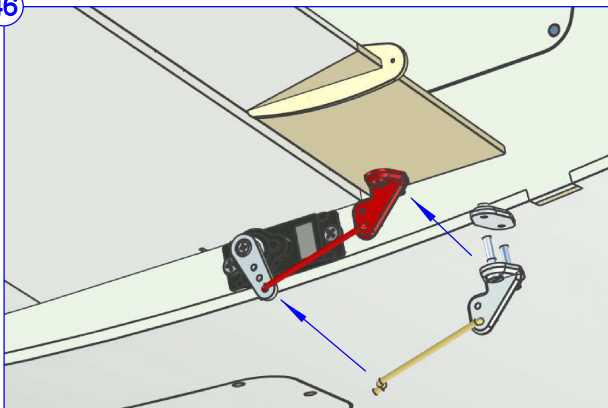
Ausrichtung der Radschuhe
Orientation of the wheel covers

eventuell den
Stapel an die
Radbreite
anpassen

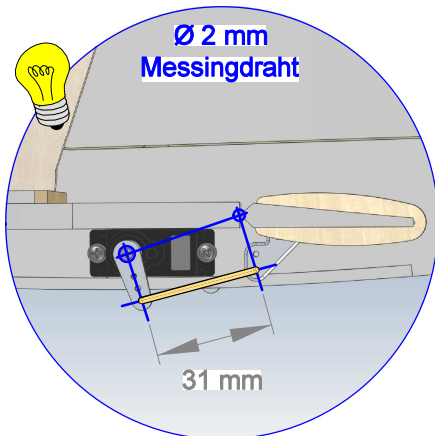
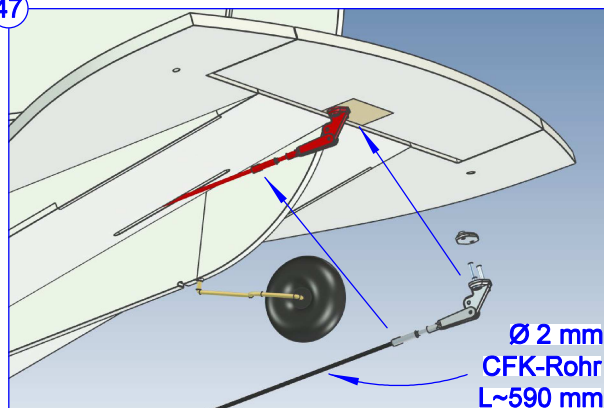
possibly adjust
the stack to the
wheel width



46



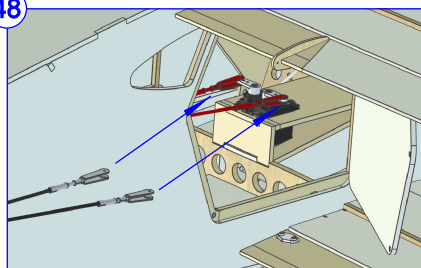
47



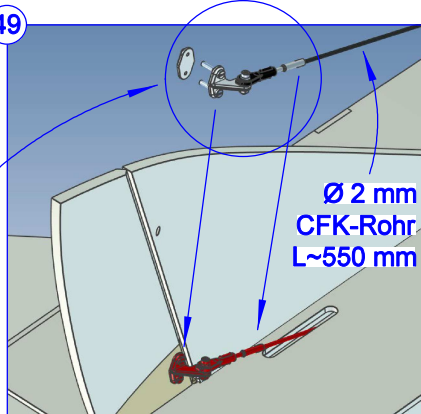
Bei Verwendung der vorgeschlagenen Multiplex-Ruderhörner und deren Einbauposition stellt sich eine optimale Anlenkungsgeometrie ein. Länge des Anlenkungsgestänges: 31 mm

When using the proposed multiplex control horns and their installation position, an optimal linkage geometry is achieved. Linkage rod length: 31 mm

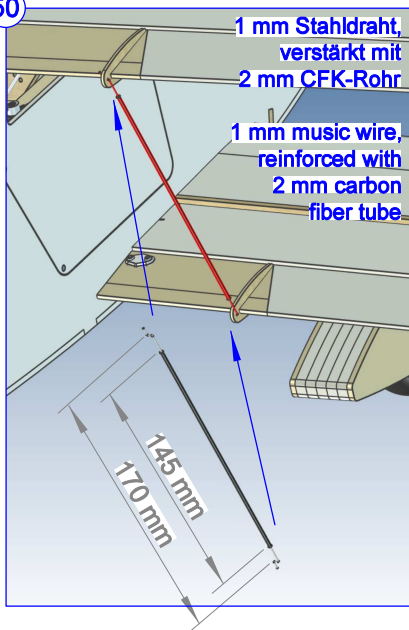
48



49



50



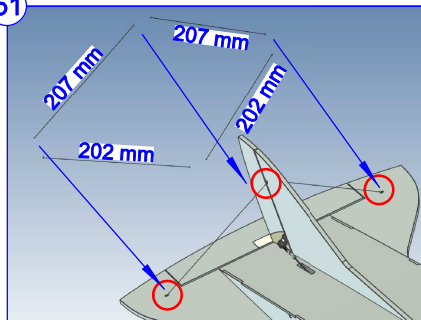
Hier ist eine Kugelkopf-Anlenkung ideal

A ball head linkage is ideal here

Bei einer Anlenkungslänge von 170 mm stehen die Querruder identisch.

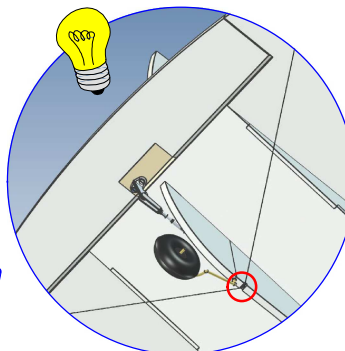
With a linkage length of 170 mm, the ailerons are identical.

51

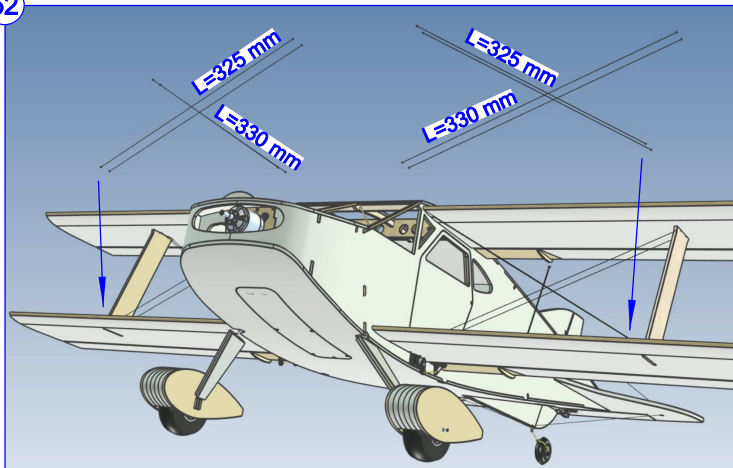


Kleben Sie die Leitwerksverstrebungen aus 1 mm CFK-Stäben an den gezeigten Positionen ein.

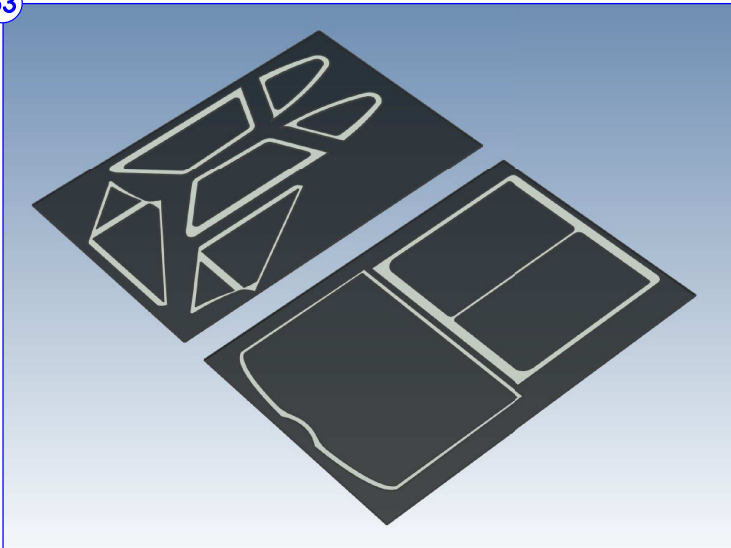
Glue in the tail struts made of 1 mm carbon fiber rods at the positions shown.



52

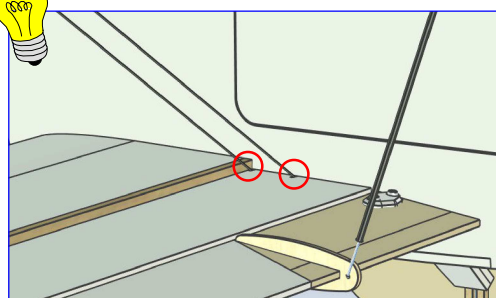
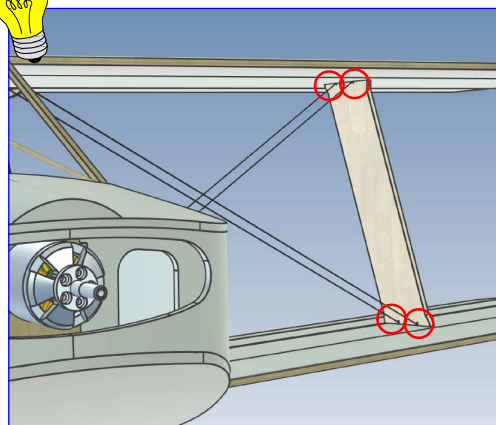
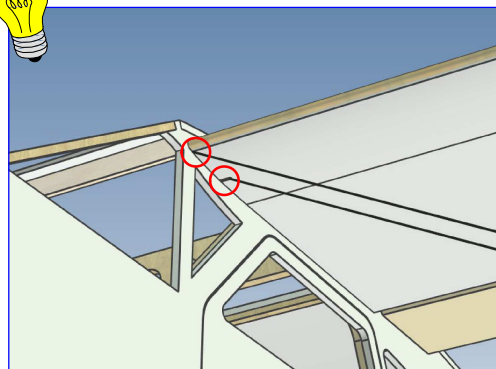
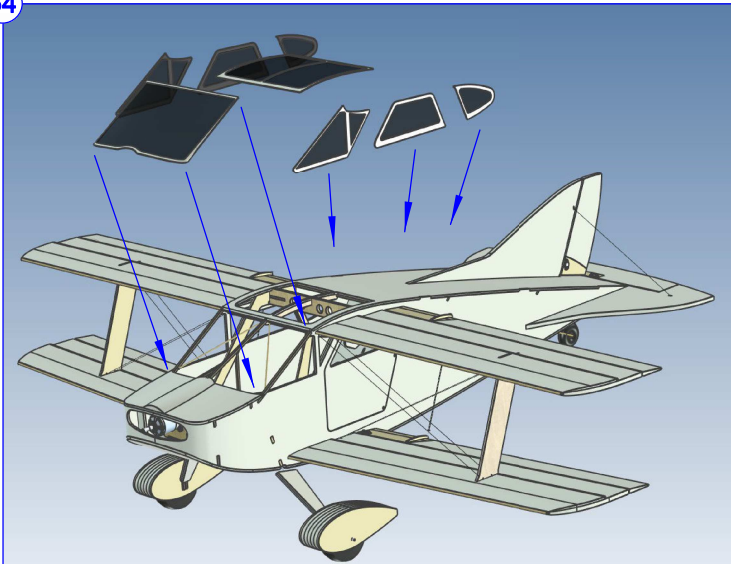


53



Fensterkonturen (S. 39-41) auf Folie aufkleben und Außenkonturen ausschneiden. Danach alle Fenster in Position kleben.
stick the window contours (p. 39-41) to foil and cut out the outlines. Then glue all windows in place.

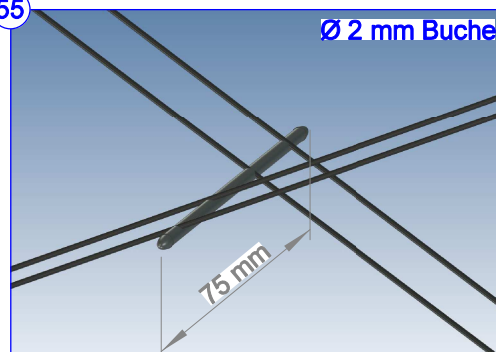
54



Die Flügelverspannung besteht aus 1 mm CFK-Stäben. Kleben Sie diese an ihre vorgesehene Positionen, und achten Sie darauf, dass der obere Flügel horizontal steht. Der untere richtet sich automatisch passend aus.

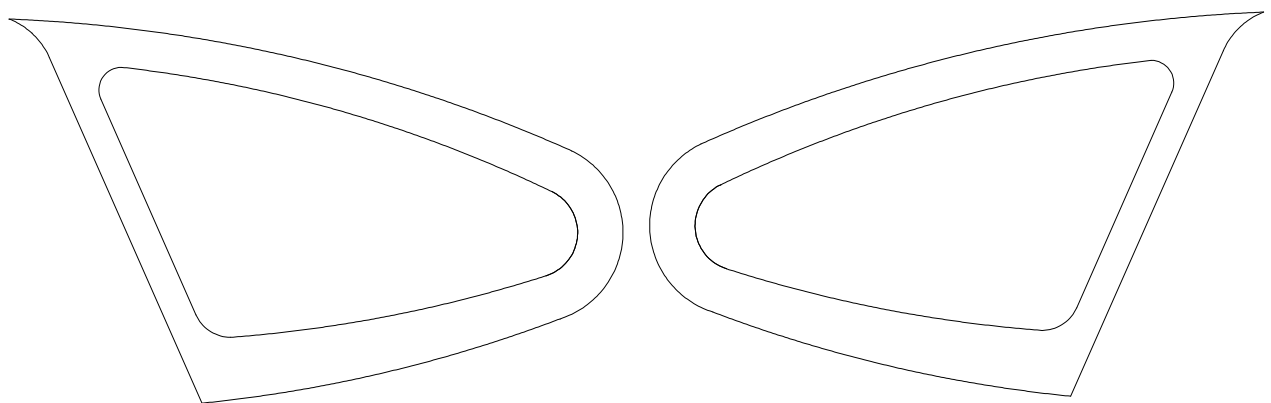
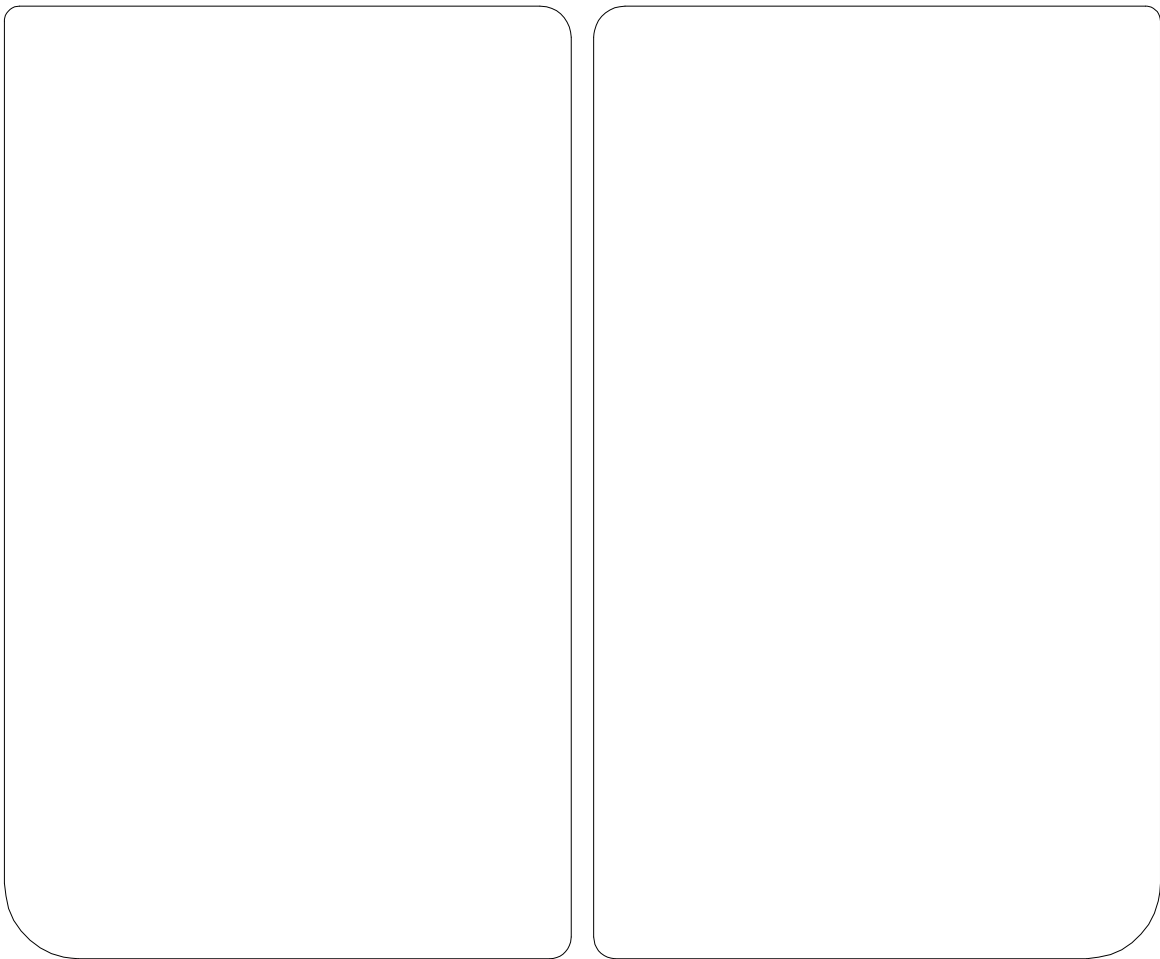
The wing bracing consists of 1 mm carbon fiber rods. Glue these in their intended positions and make sure that the upper wing is horizontal. The lower one will align itself automatically.

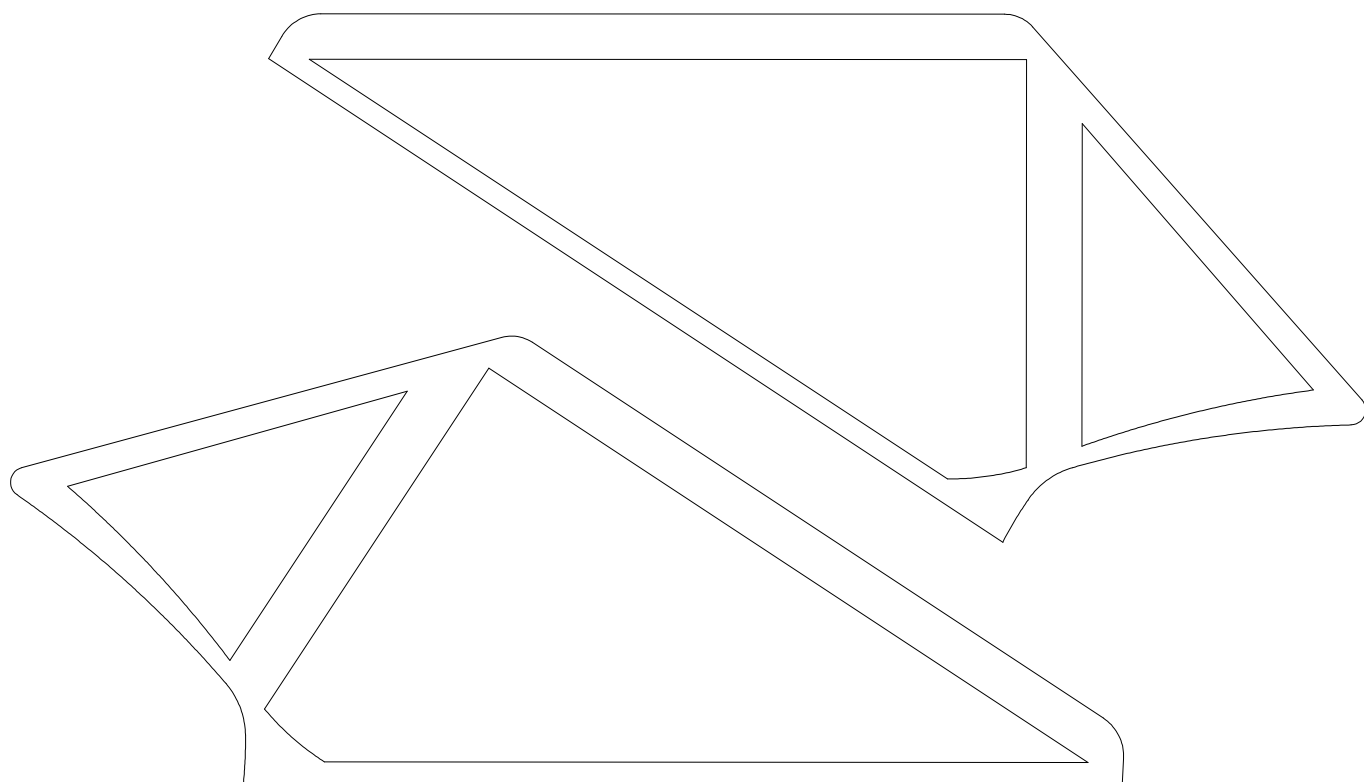
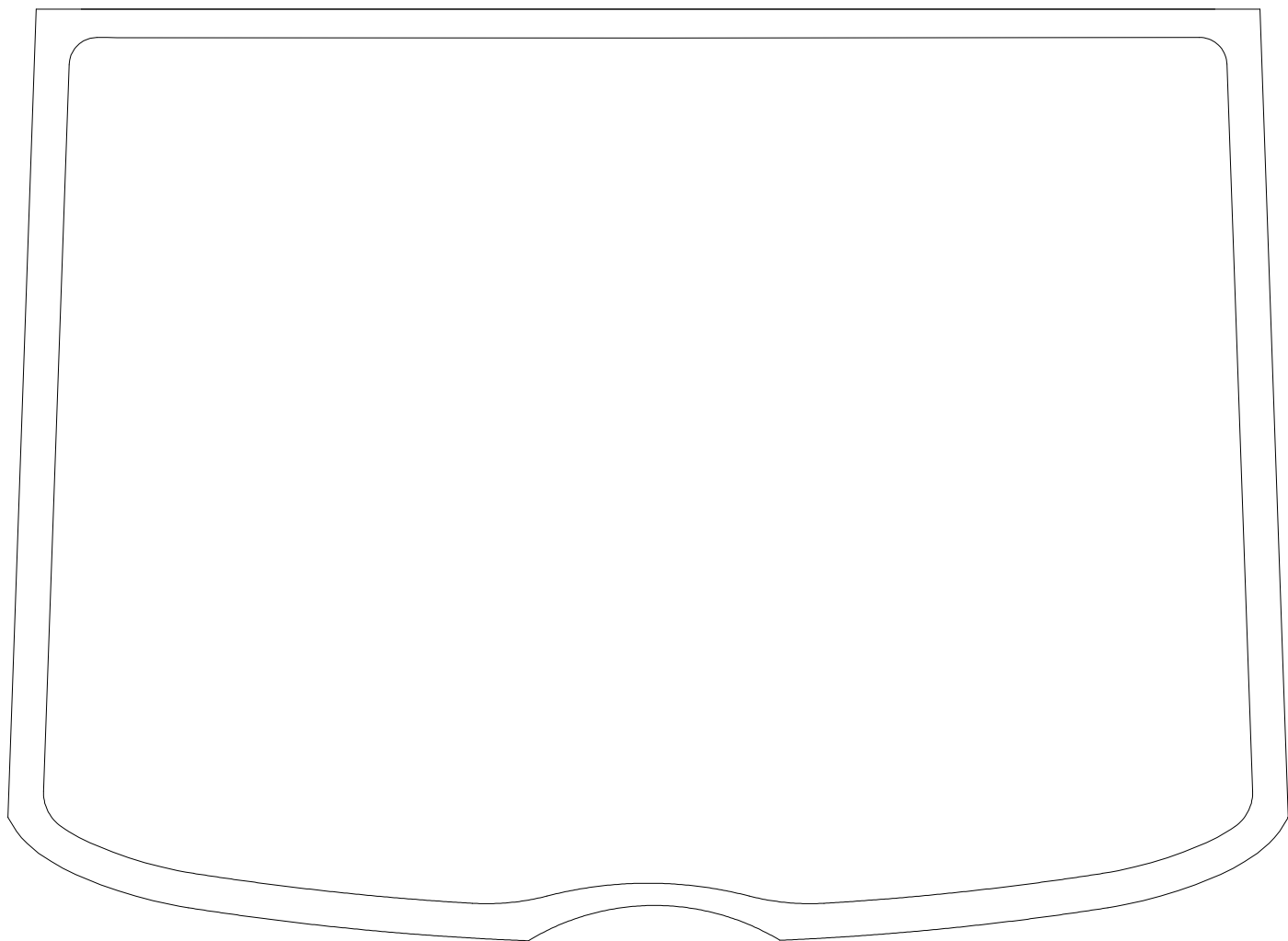
55

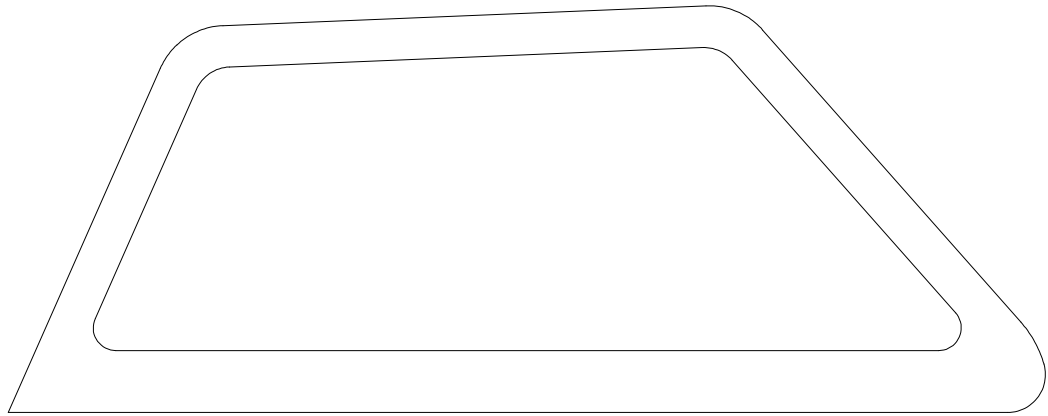
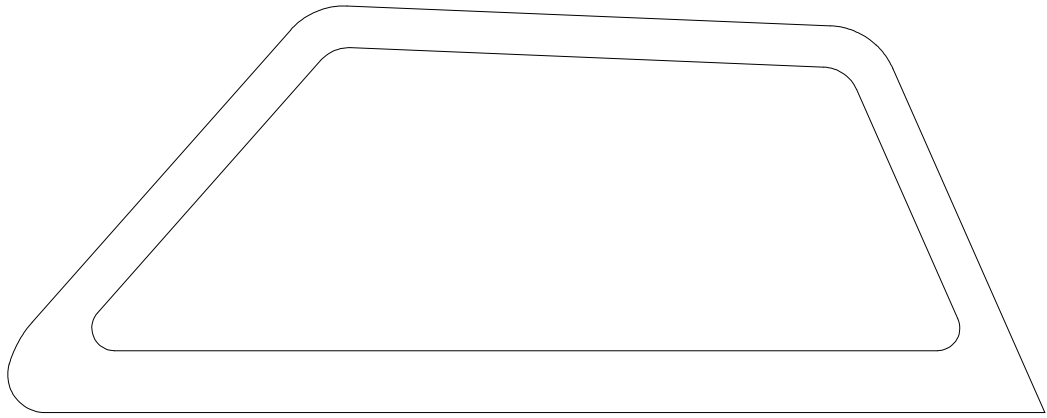


Kreuzungsverbinder
crossing connector

Flugrichtung
flight direction

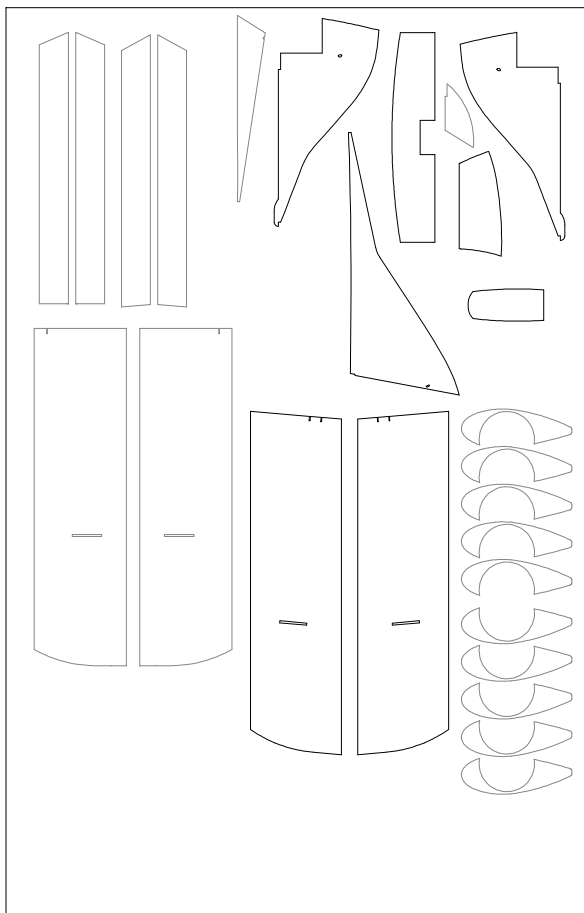




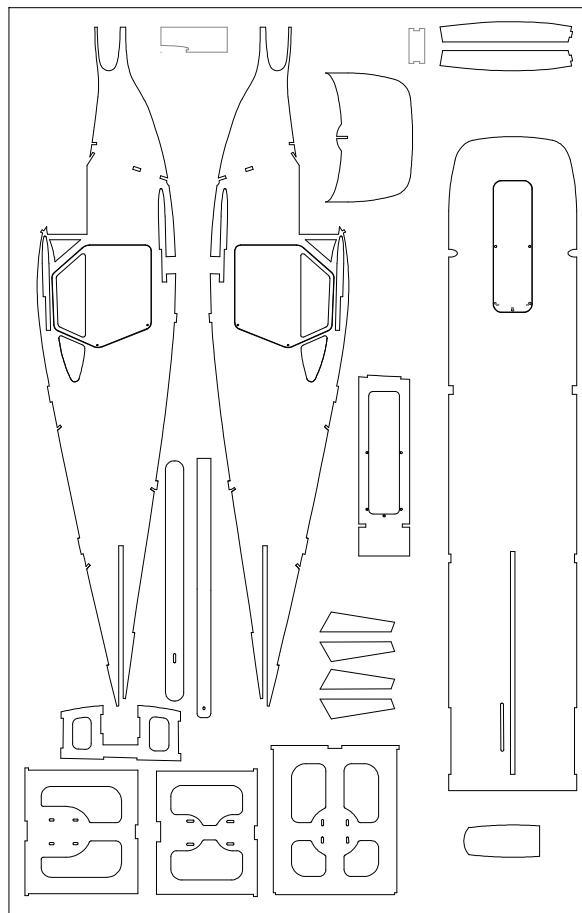


Anhang: Materialebedarf / -Zuschnitt

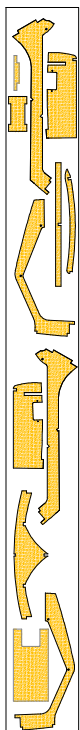
| Material | Anzahl | Abmessungen [mm] | benötigt in Bauschritt |
|--|----------------------|------------------|------------------------|
| 3 mm Depron | 2 Platten | 1250 x 800 | diverse |
| 6 mm Depron | 1 Platte | 1250 x 800 | diverse |
| 3 mm Balsa (mittelhart) | 2 Brettchen | 1000 x 100 | diverse |
| 6 mm Balsa (mittelhart) | 1 Brettchen | 300 x 100 | diverse |
| 4 mm Pappelsper Holz | 1 Platte | 200 x 200 | diverse |
| 1,5 mm Flugzeugsperrholz | 1 Platte (Reststück) | 100 x 50 | (27) |
| Vierkantstab □ 3 x 3 mm Kiefer | 4x | 498 | (24) (25) |
| | | 186 | (32) |
| | | 184 | (32) |
| | | 108 | (32) |
| | 2x | 144 | (36) |
| | | 128 | (36) |
| | | 170 | (9) |
| | 4x | 12 | (45) |
| Rundholzstab Ø 2 mm Buche | 2x | 142 | (37) |
| | 2x | 75 | (55) |
| Rundholzstab Ø 3 mm Buche | 2x | 440 | (26) |
| | 2x | 438 | (26) |
| Federstahldraht Ø 2,5 mm | 2x | 280 | (34) |
| Messingdraht Ø 2 mm | | 250 | (17) |
| | 2x | 50 | (46) |
| Kunststoffrohr, außen-Ø 3 / innen-Ø 2,1 mm | 2x | 280 | (12) |
| | | 76 | (17) |
| Federstahldraht Ø 1 mm | 2x | 190 | (50) |
| | | 90 | (35) |
| CFK-Rohr, außen-Ø 2 / innen-Ø 1 mm | | 590 | (47) |
| | | 550 | (49) |
| | 2x | 145 | (50) |
| CFK-Stab Ø 1 mm | 2x | 202 | (51) |
| | 2x | 207 | (51) |
| | 4x | 330 | (52) |
| | 4x | 325 | (52) |



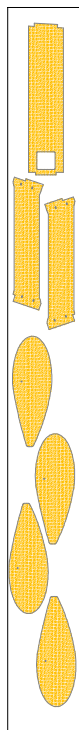
6 mm Depron



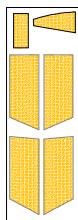
3 mm Depron



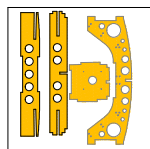
3 mm Balsa



3 mm Balsa



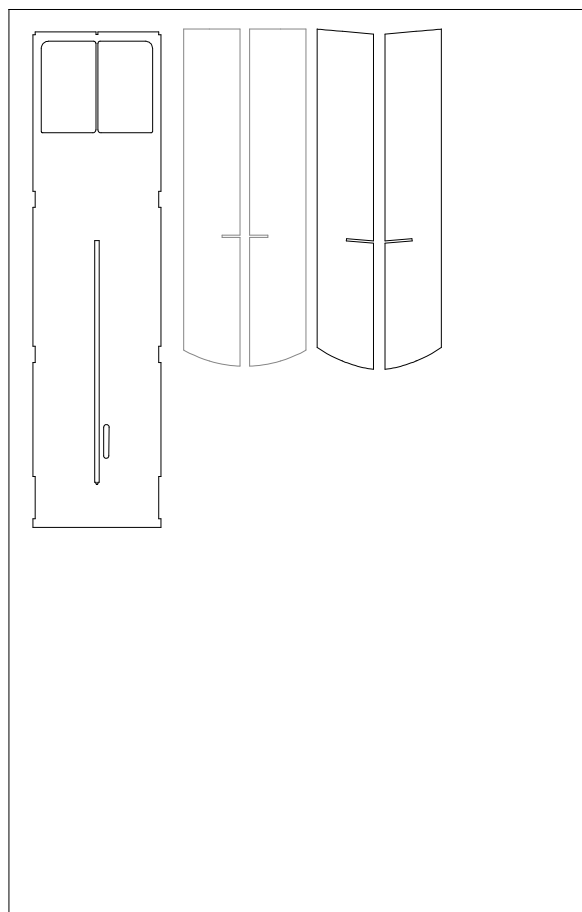
6 mm Balsa



3 mm Pappelsper Holz



1,5 mm Flugzeugsperrholz



3 mm Depron

