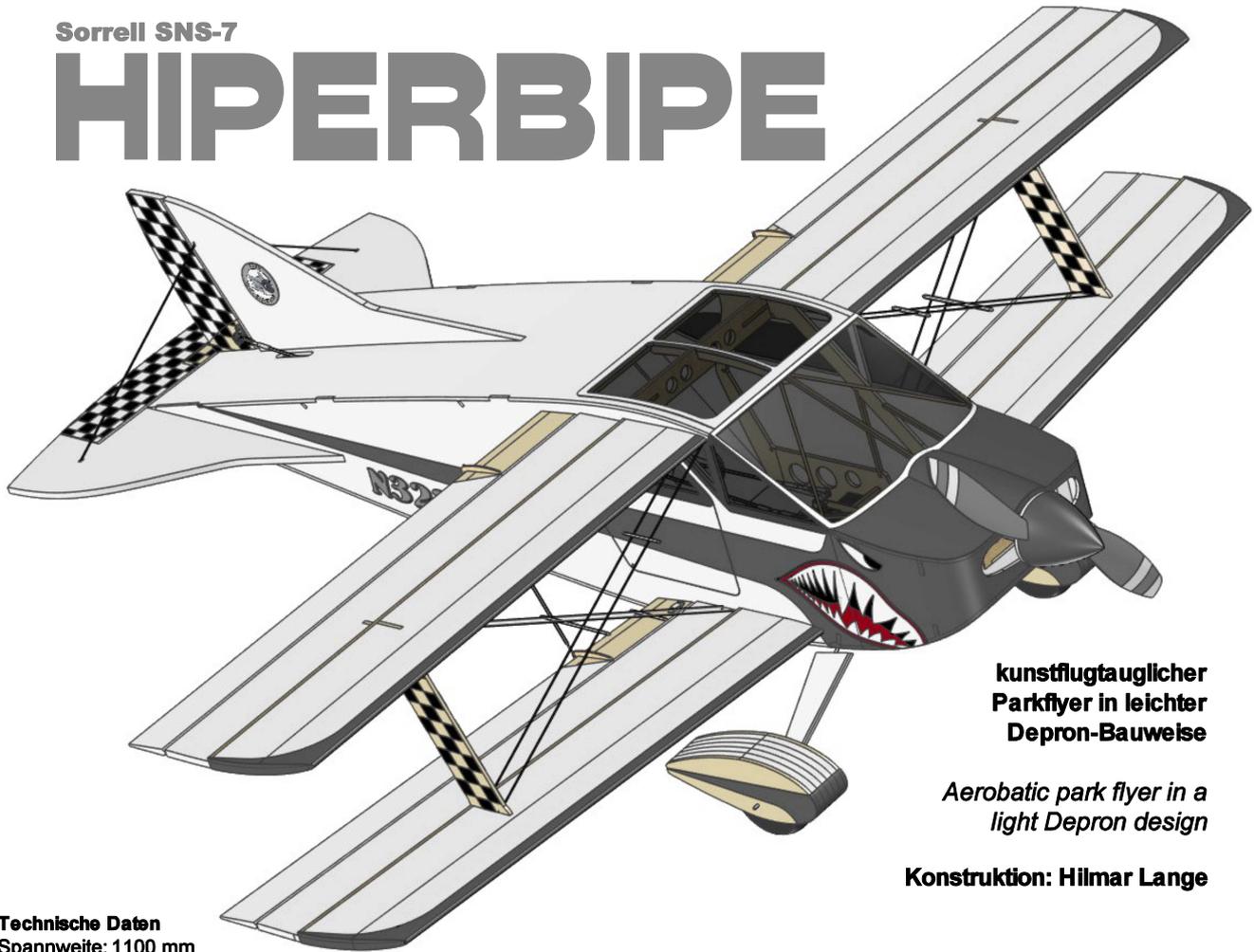


Sorrell SNS-7

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 1000-1700 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
EWD o/u: 1,5° / 1,5°
Sturz / Zug: 2,0° / 2,5°

**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

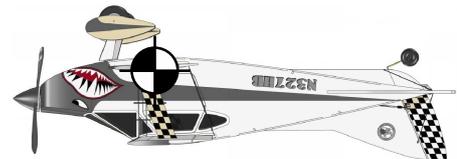
2x Schaumstoff-Leichtrad Ø 70 mm
1x Schaumstoff-Leichtrad Ø 40 mm

Spinner 57mm, Alu/Kunststoff,
weiss, Aeronaut # 7258/31

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

Ruderausschläge / deflections

QR / aileron: 20 mm
SR / rudder: 30 mm
HR / elevator: 20 mm
QR als Flaps: -15 mm (keine
Höhenruder-Kompensation nötig)
set ailerons as flaps 15 mm down.
No elevator compensation necessary.



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.

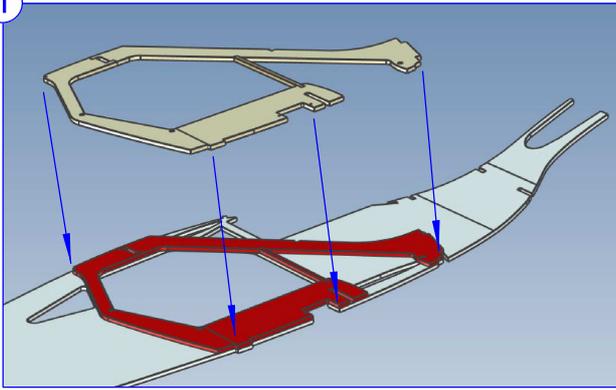
**The plan is written
chronologically.** The parts are
drawn where they are needed.
Each component has a number
which refers to the
corresponding construction
step and its illustration. Each
component has a number that
refers to the
associated construction step
and its illustration.

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private Zwecke zu nutzen. Für die gewerbliche Herstellung der
Bauplanmodelle oder von Teilen davon ist eine Genehmigung durch den
Verlag Wellhausen & Marquardt Medien erforderlich.

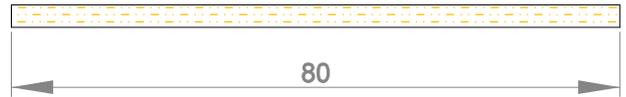


1

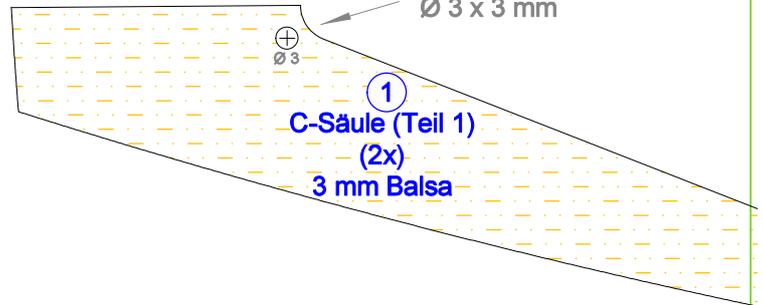


2	3	4	5	6
---	---	---	---	---

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



Magnet
Ø 3 x 3 mm



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!

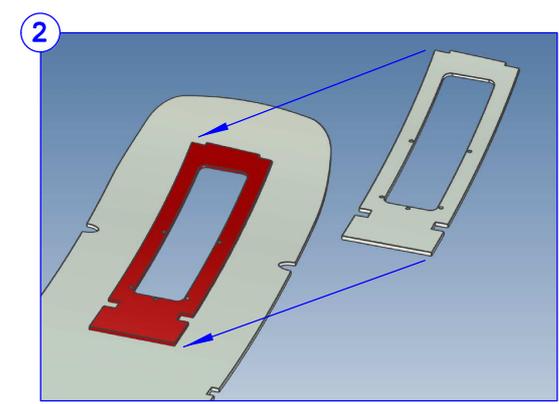
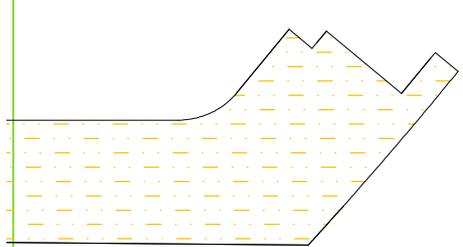
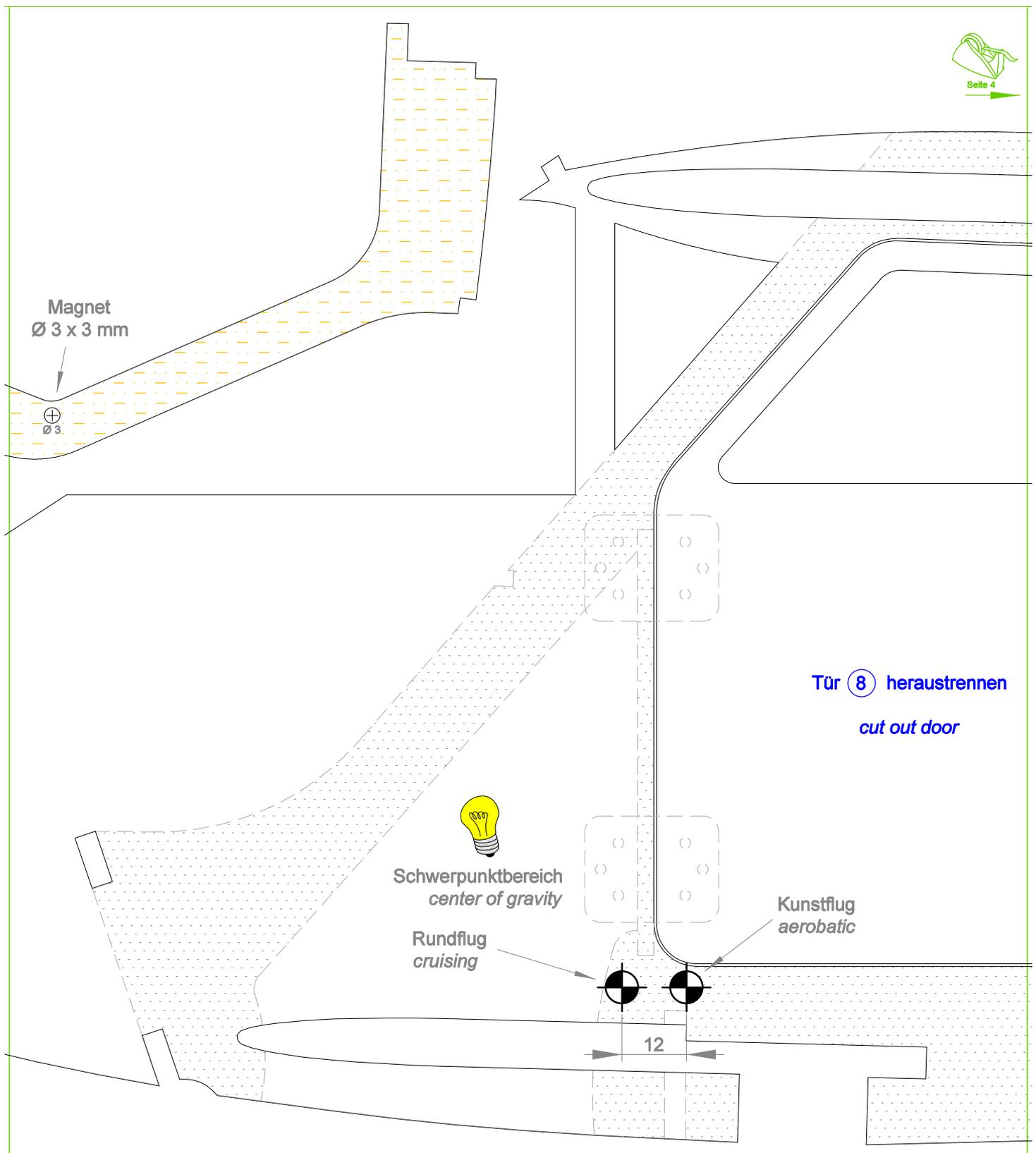
1 C-Säule (Teil 2)
(2x)
3 mm Balsa

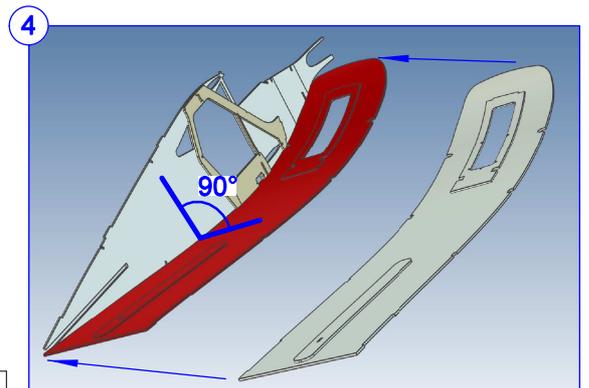
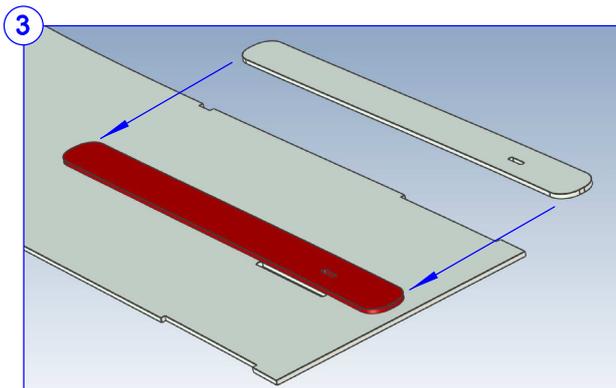
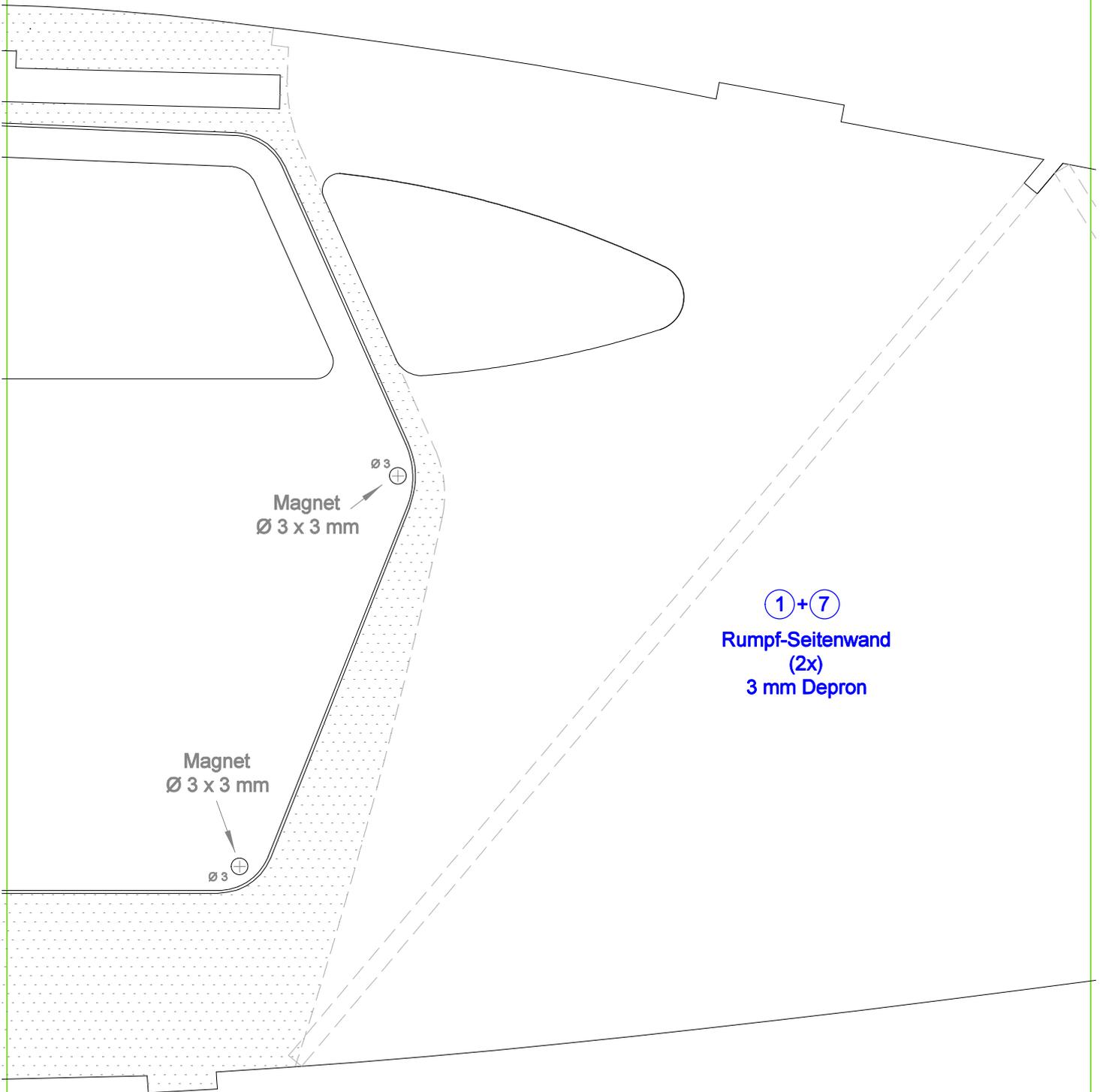
Servo:
22,5 x 11,5 mm

Ø 1

Ø 1

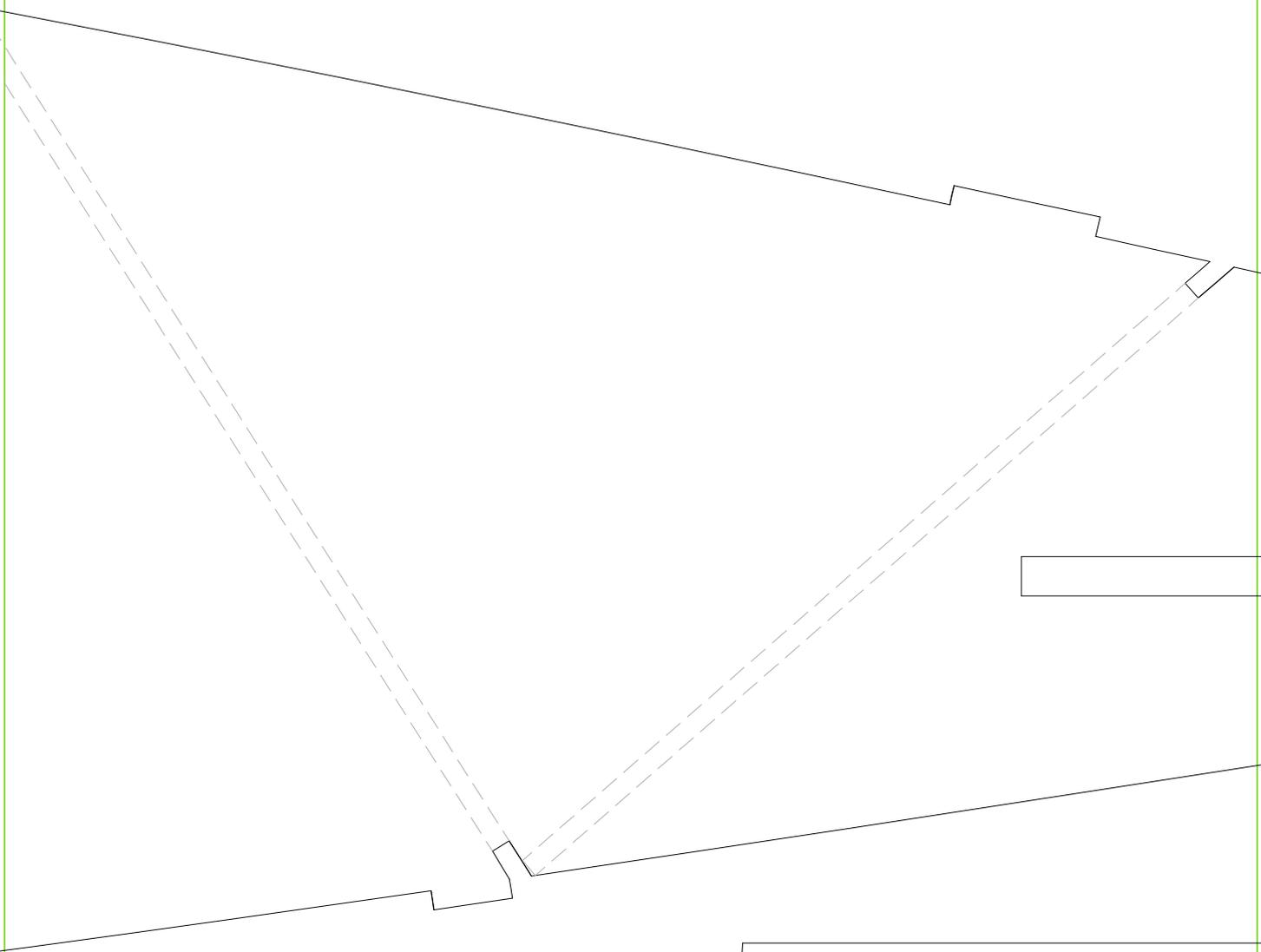
1 B-Säule
(2x)
3 mm Balsa



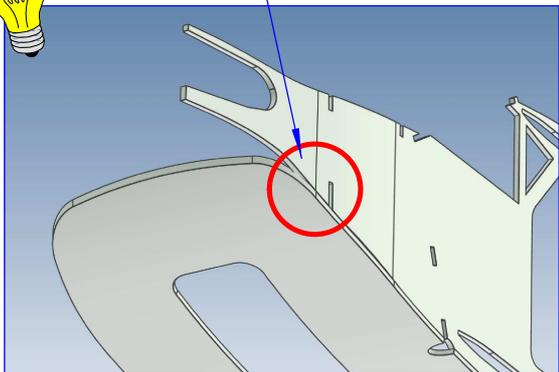




③ Seitenfinnen-Anschlag
3 mm Depron



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

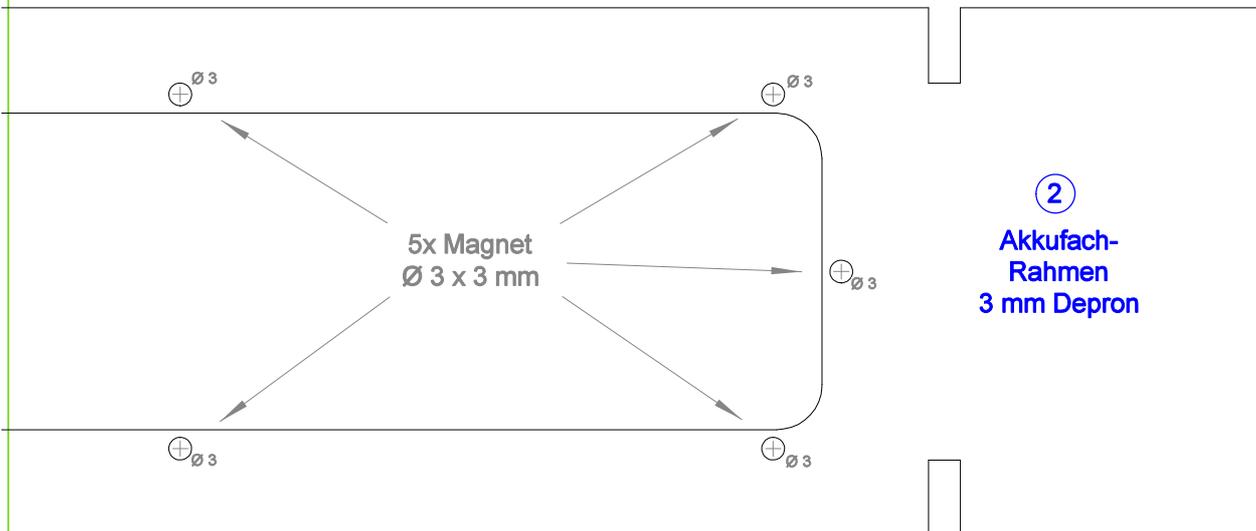
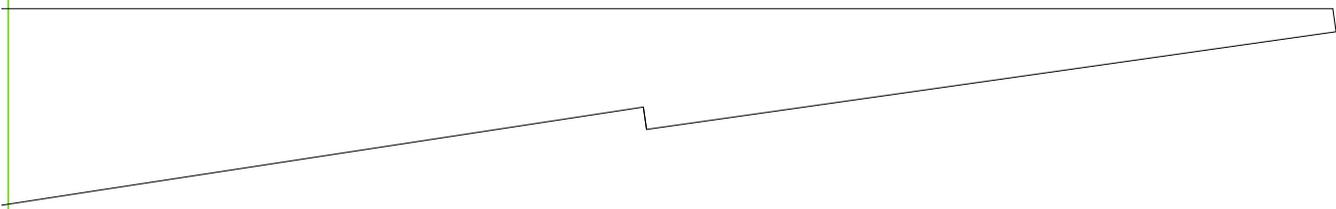
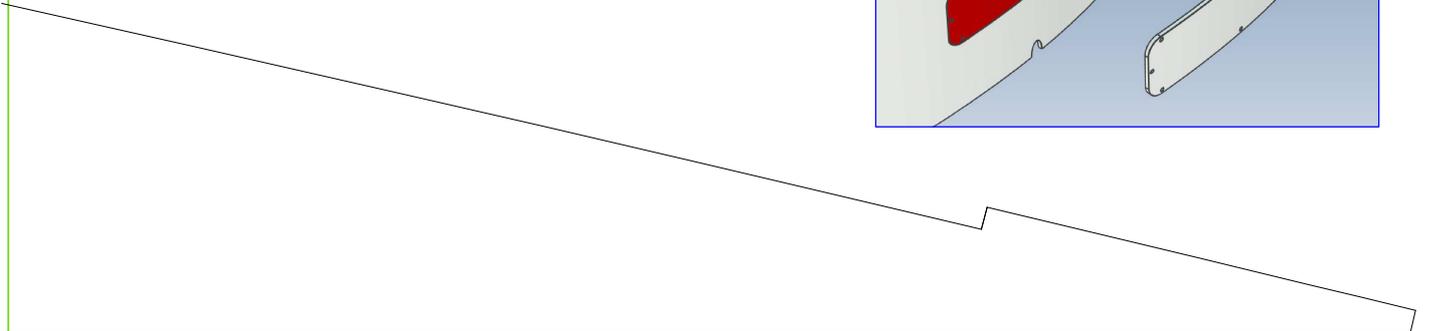
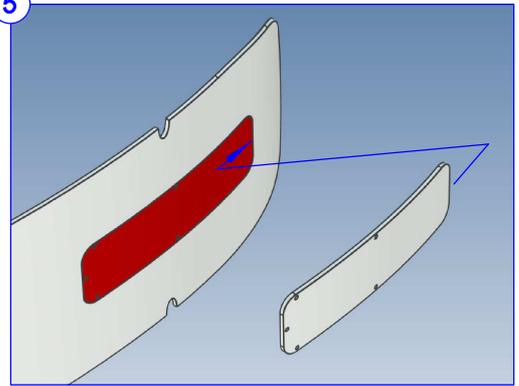


rechts
right

links
left



5
Akkuklappe
anschnarieren
*hinge battery
compartment lid*

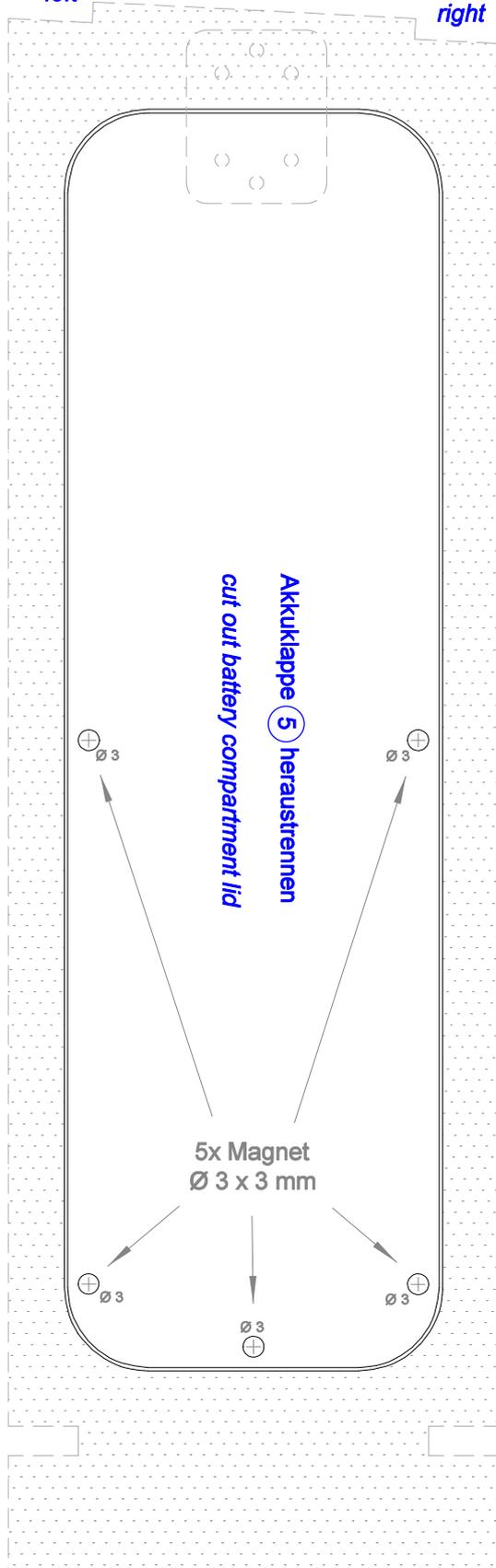




- 7
- 8
- 9
- 10

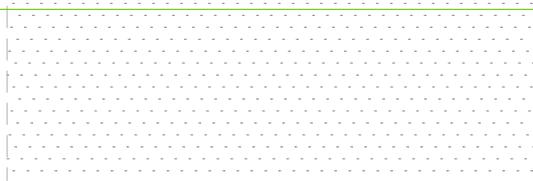
links
left

rechts
right



Akkuklappe 5 herausstreichen
cut out battery compartment lid

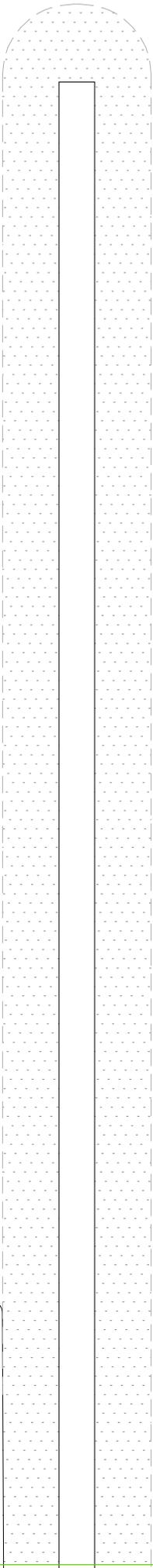
5x Magnet
Ø 3 x 3 mm



4

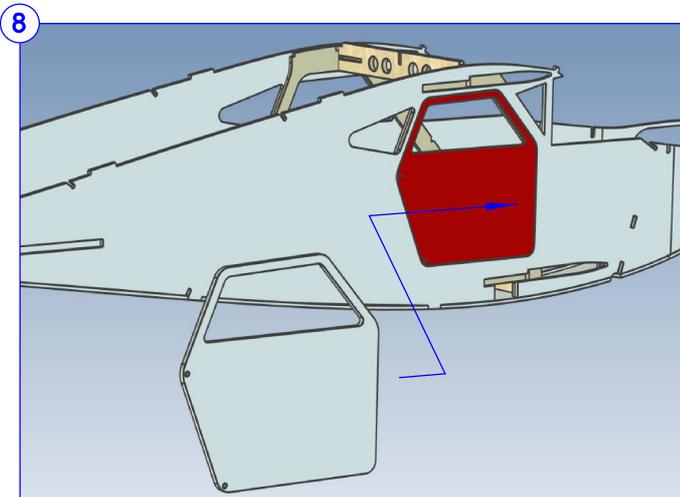
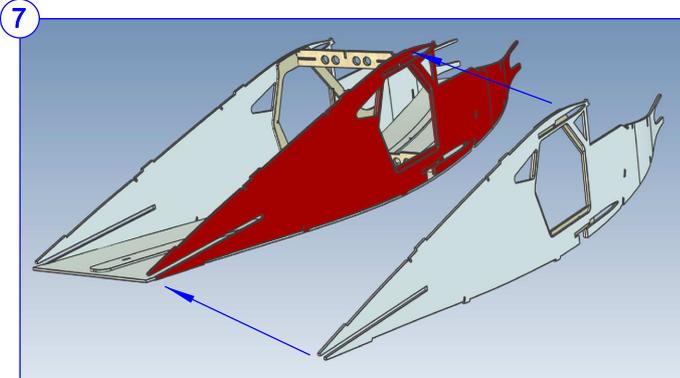
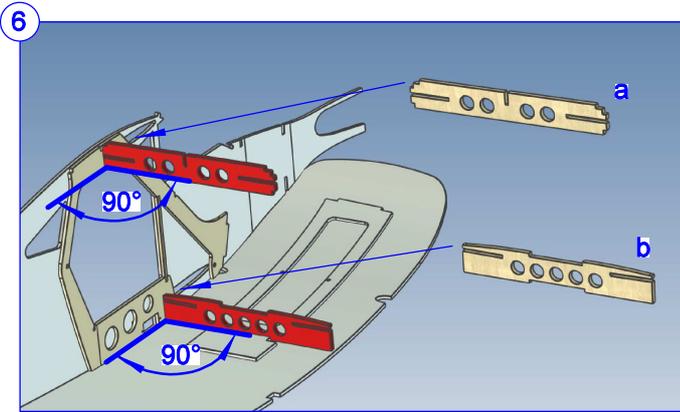
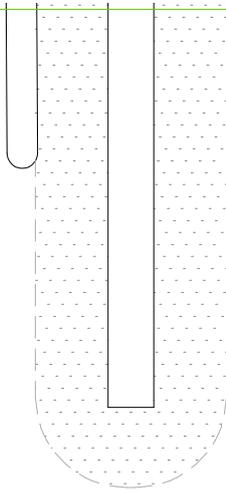
Rumpfboden
3 mm Depron



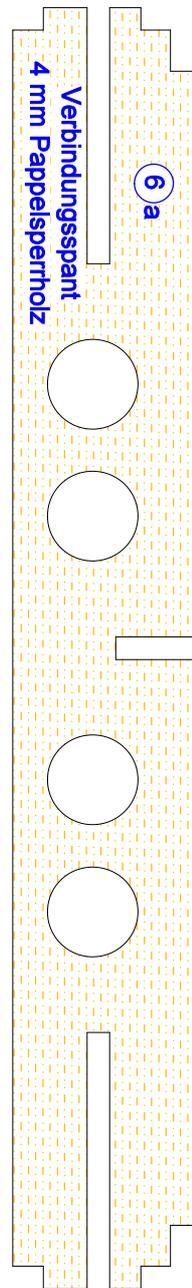
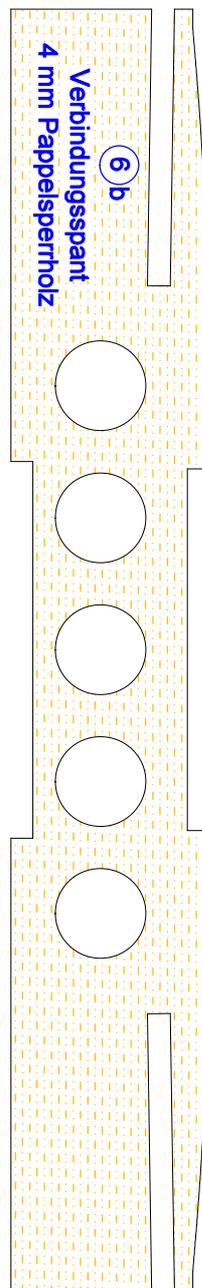


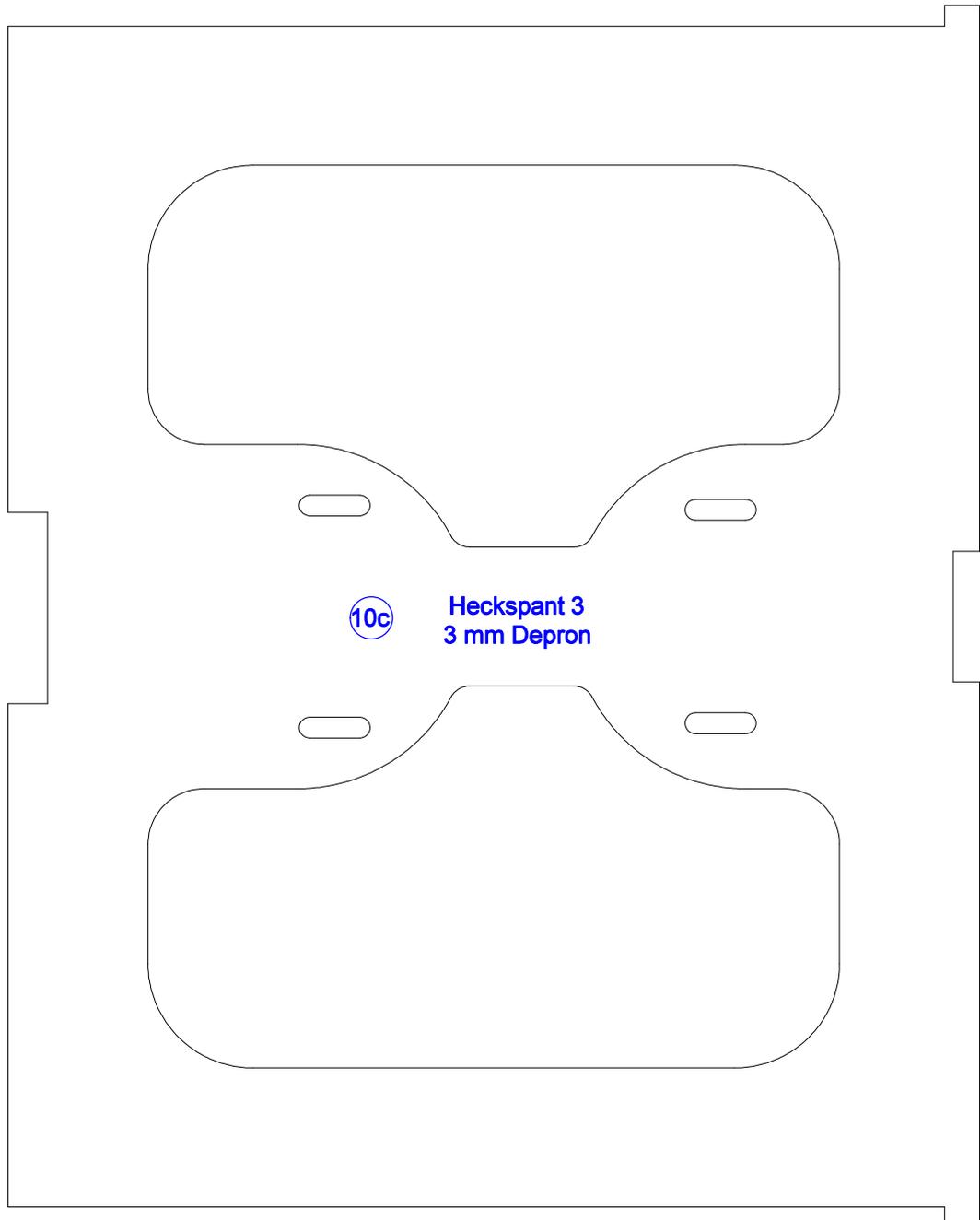
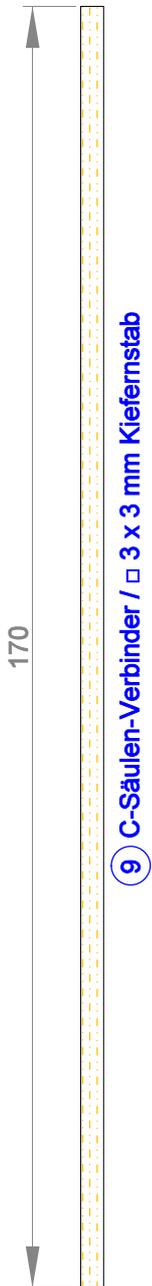
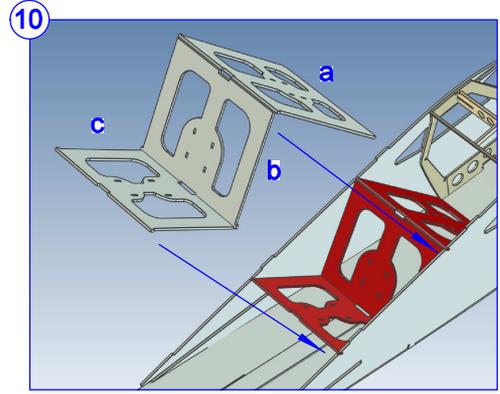
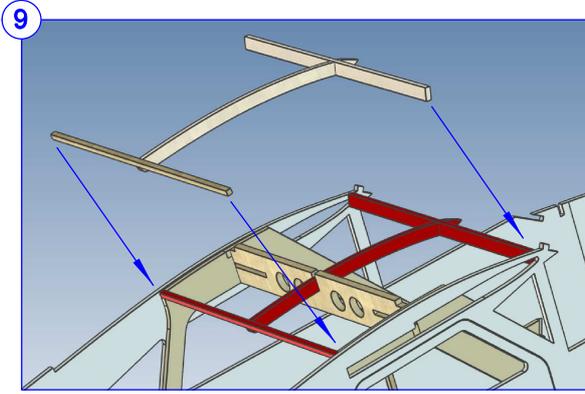
Durchführung für HLW-
(auf LINKER Seite)

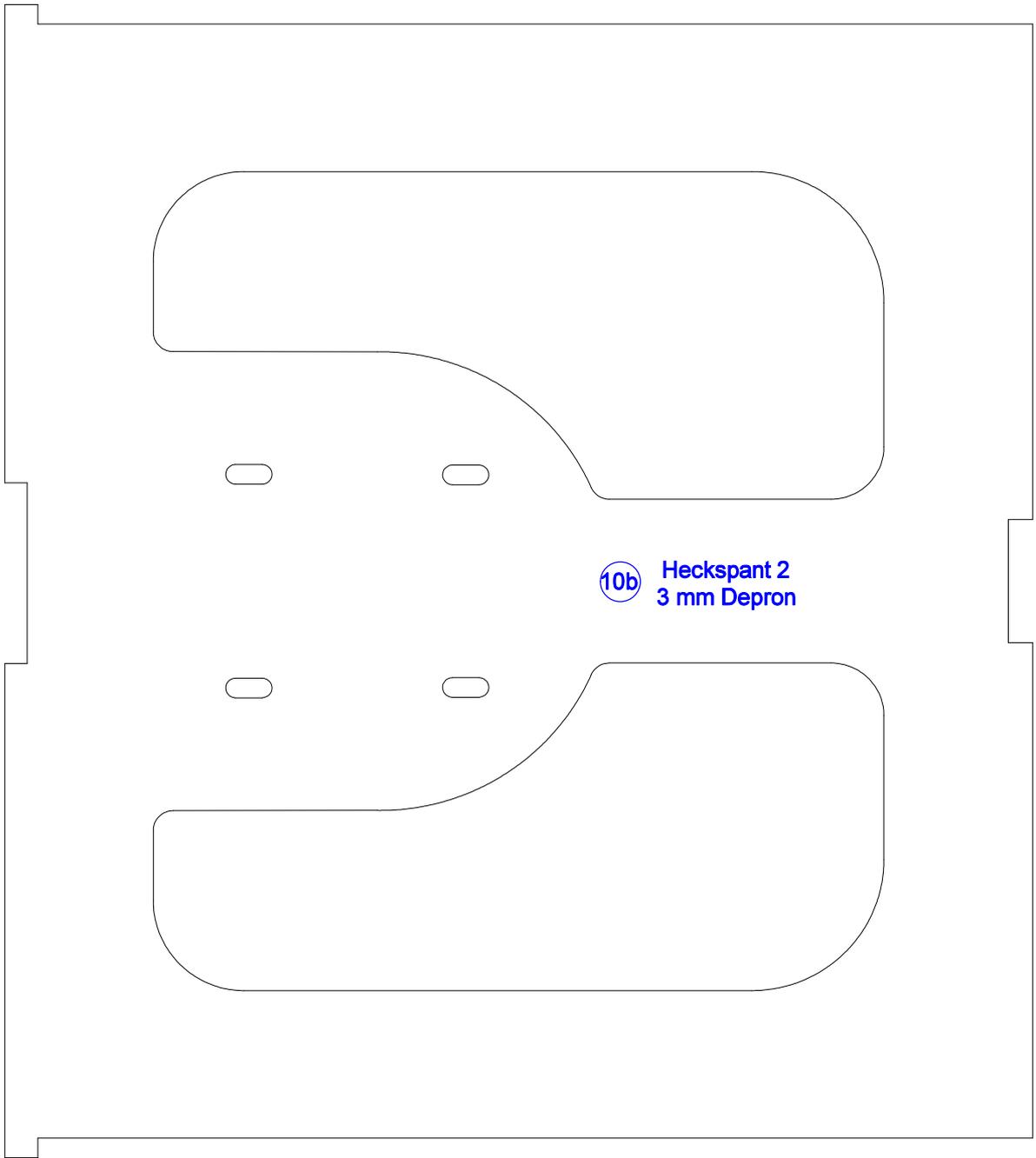




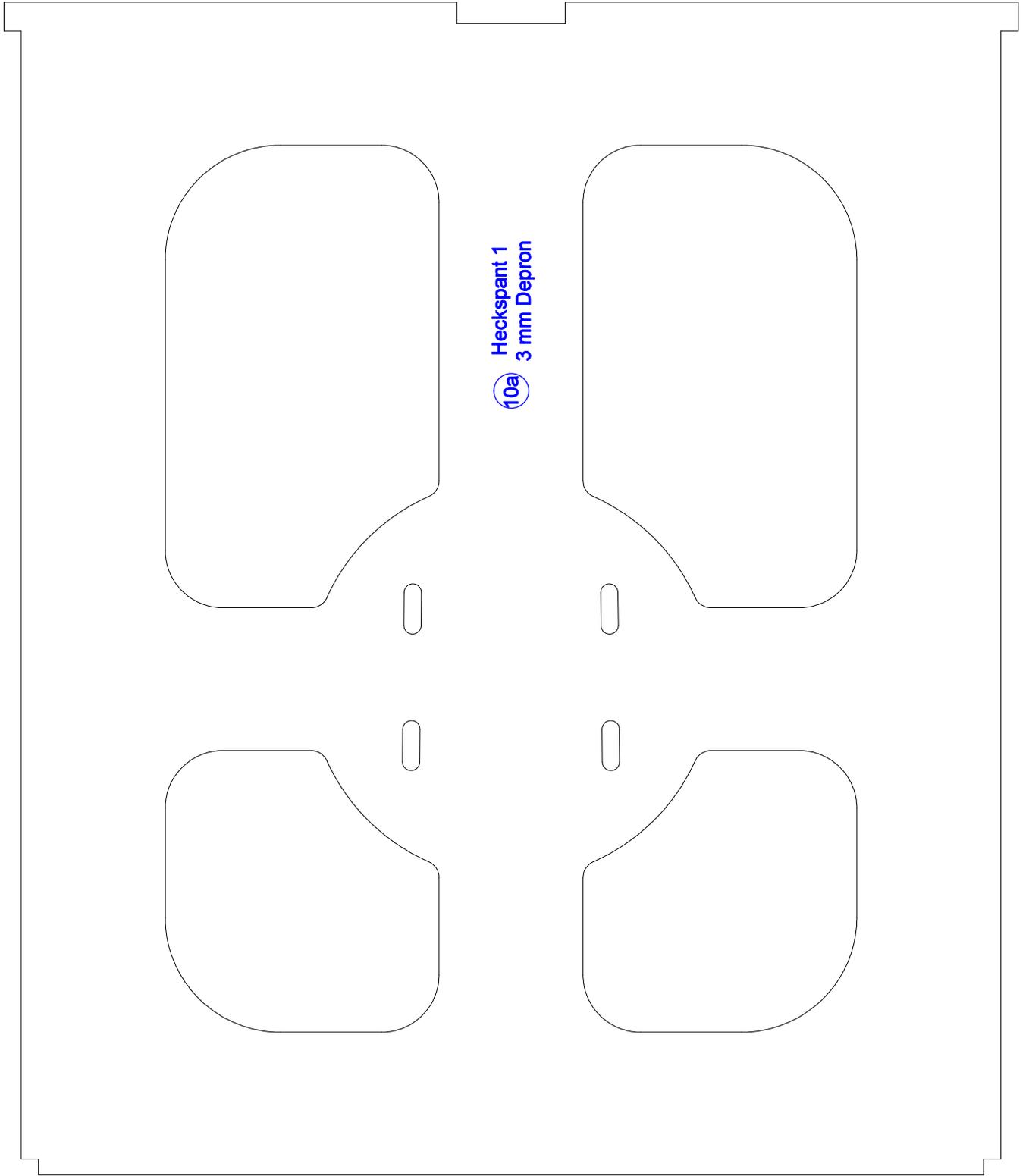
Türen anschamieren / hinge doors



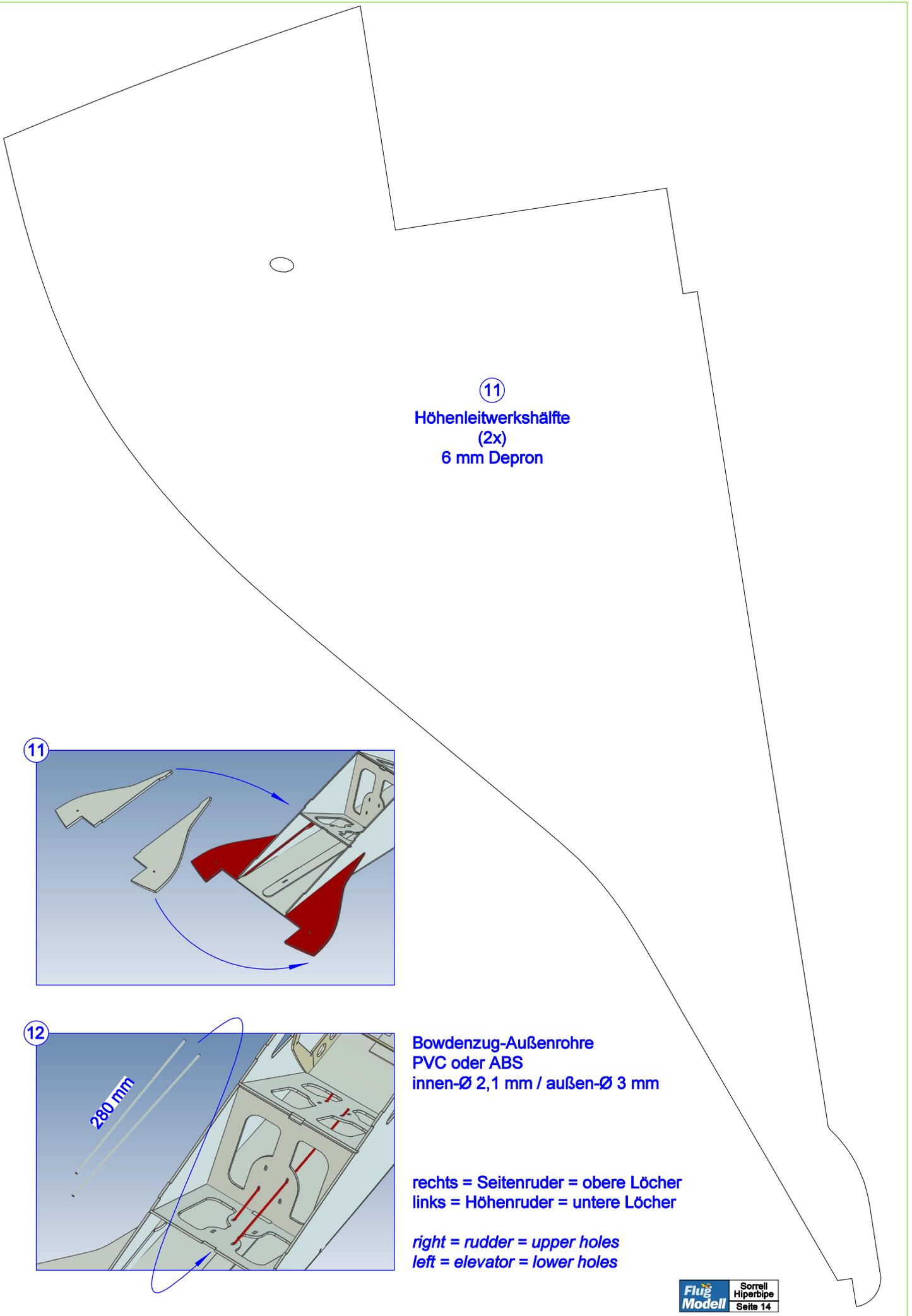




10b Heckspant 2
3 mm Depron



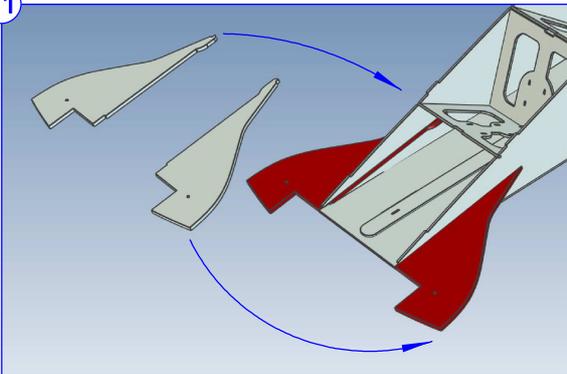
10a Heckspant 1
3 mm Depron



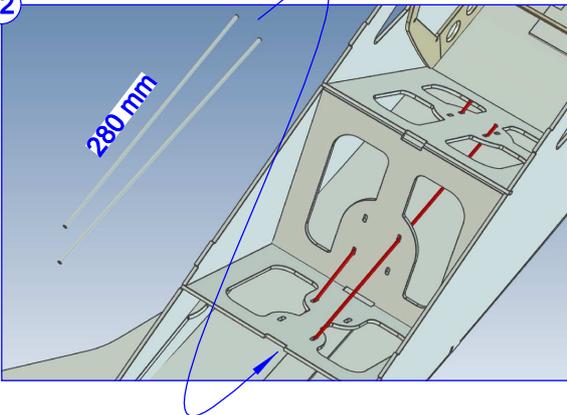
11

Höhenleitwerkshälfte
(2x)
6 mm Depron

11



12

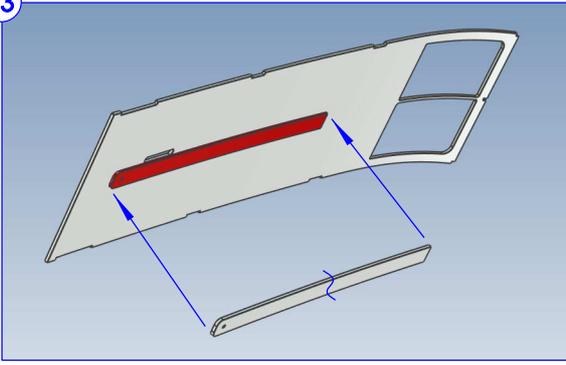


Bowdenzug-Außenrohre
PVC oder ABS
innen-Ø 2,1 mm / außen-Ø 3 mm

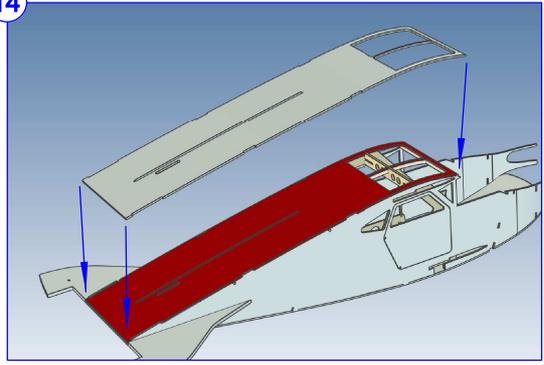
rechts = Seitenruder = obere Löcher
links = Höhenruder = untere Löcher

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

13



14



15

16

17

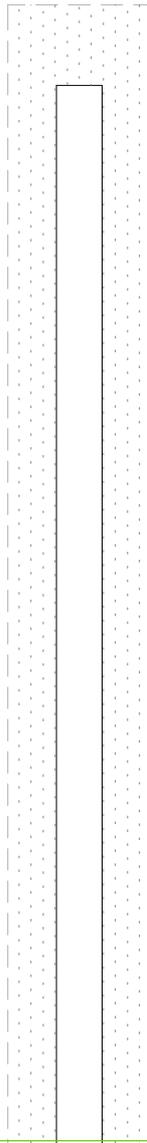
13 Seitenleitwerks-Anschlag
3 mm Depron

Seitenleitwerks-Anschlag 13
3 mm Depron

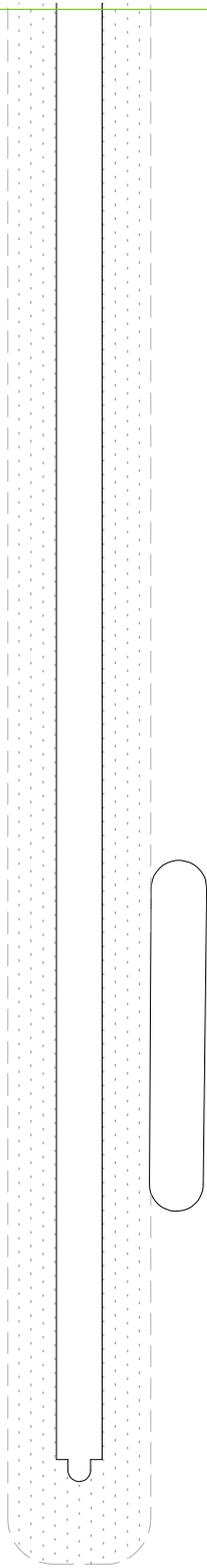


13

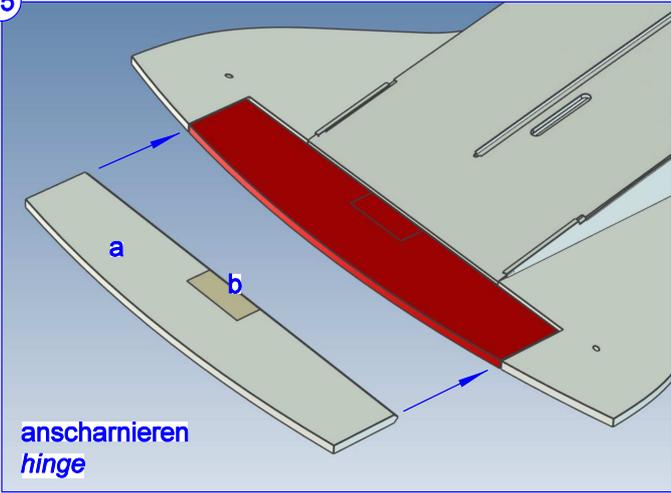
Rumpfrücken
3 mm Depron



Durchführung für SLW-Anlenkung
(auf RECHTER Seite!)

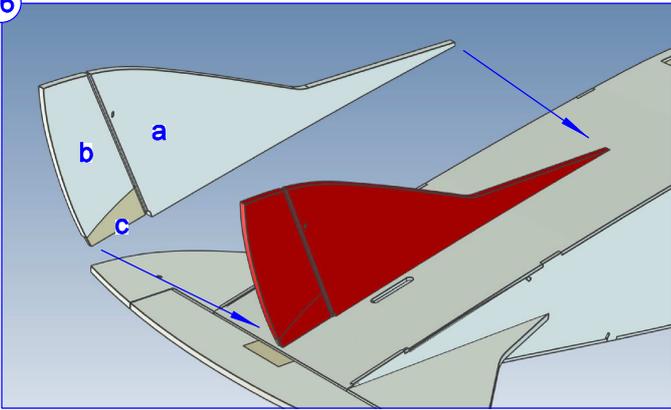


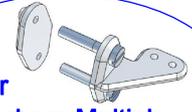
15

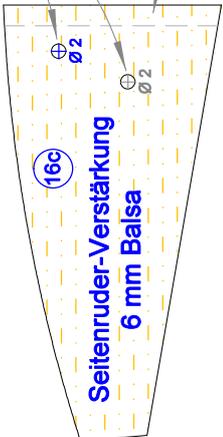


18
19

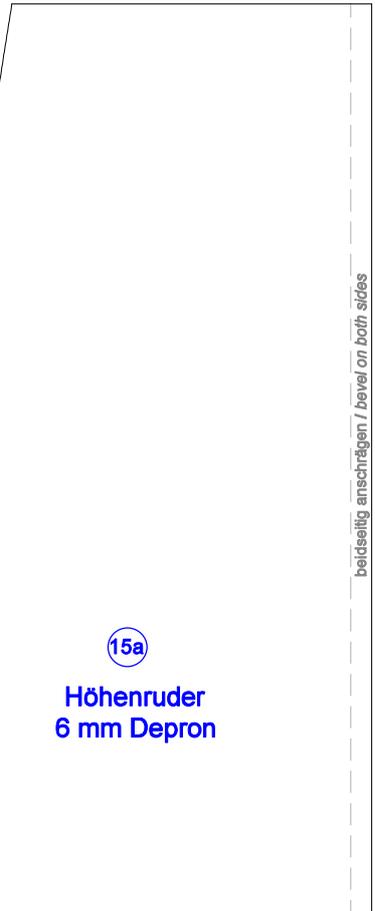
16





 für
Ruderhorn Multiplex
Größe 1 / #703022

beidseitig anschrägen
bevel on both sides



beidseitig anschrägen / bevel on both sides

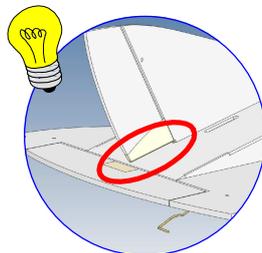
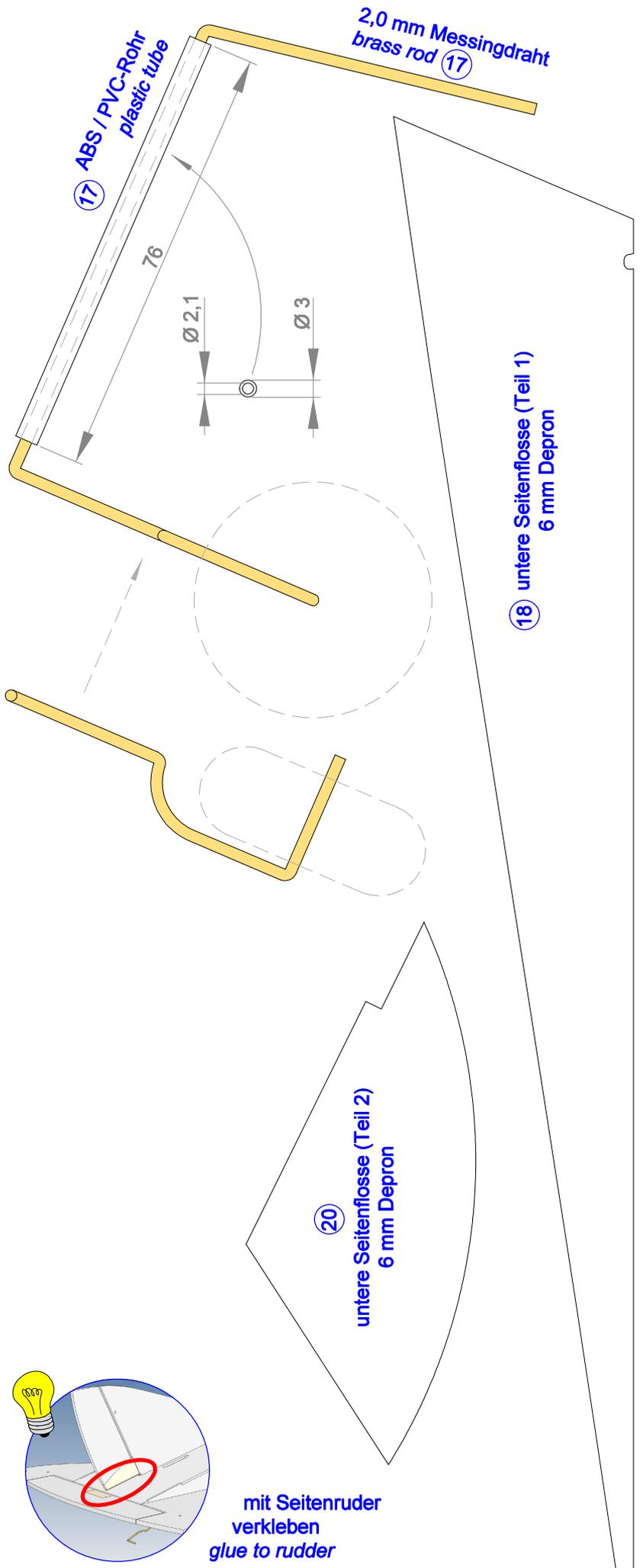
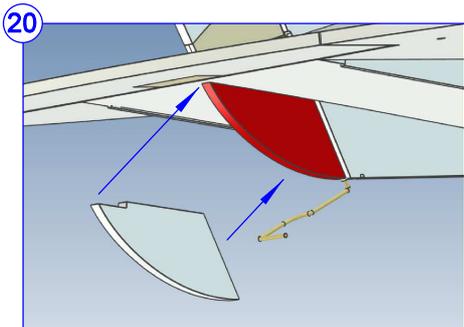
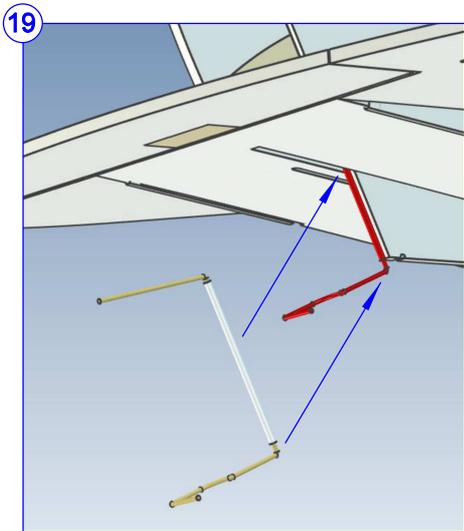
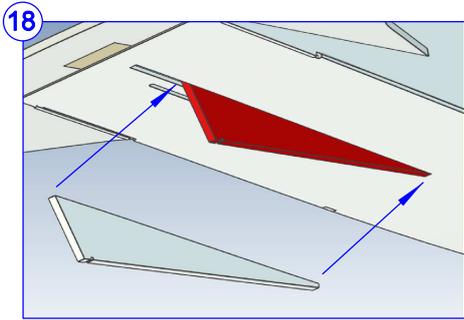
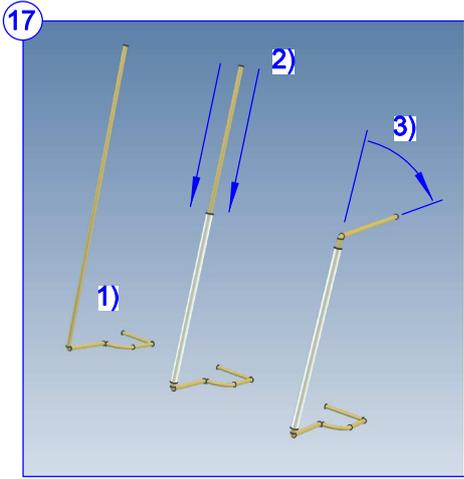
beidseitig anschrägen / bevel on both sides



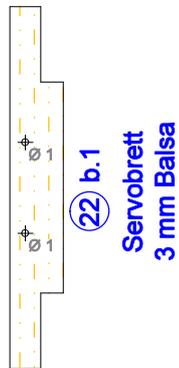
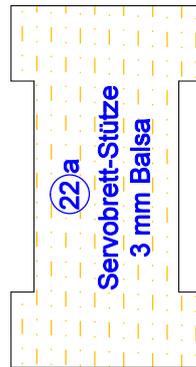
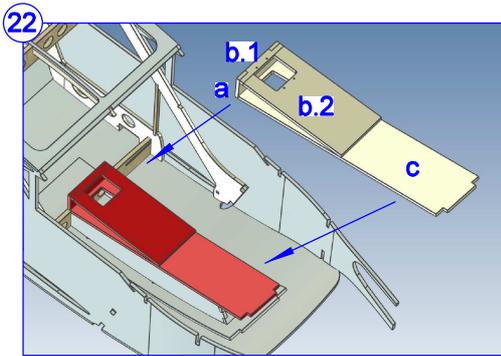
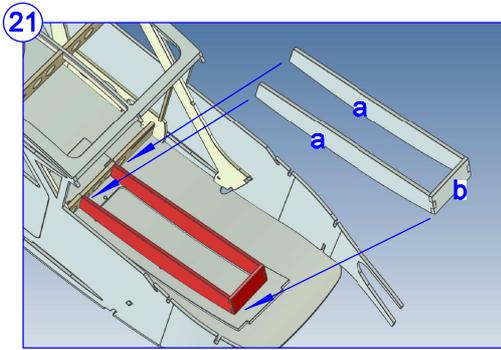
(16b)
Seitenruder
6 mm Depron

(16a)
Seitenflosse
6 mm Depron

beidseitig anschleifen / bevel on both sides

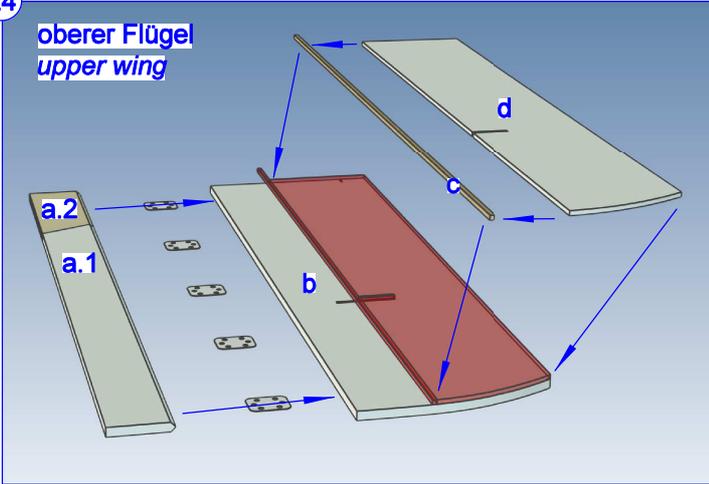


mit Seitenruder
verkleben
glue to rudder



24

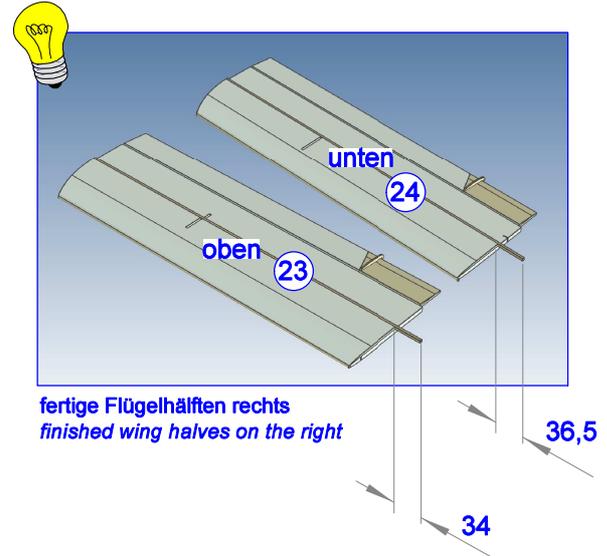
oberer Flügel
upper wing



- 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)

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

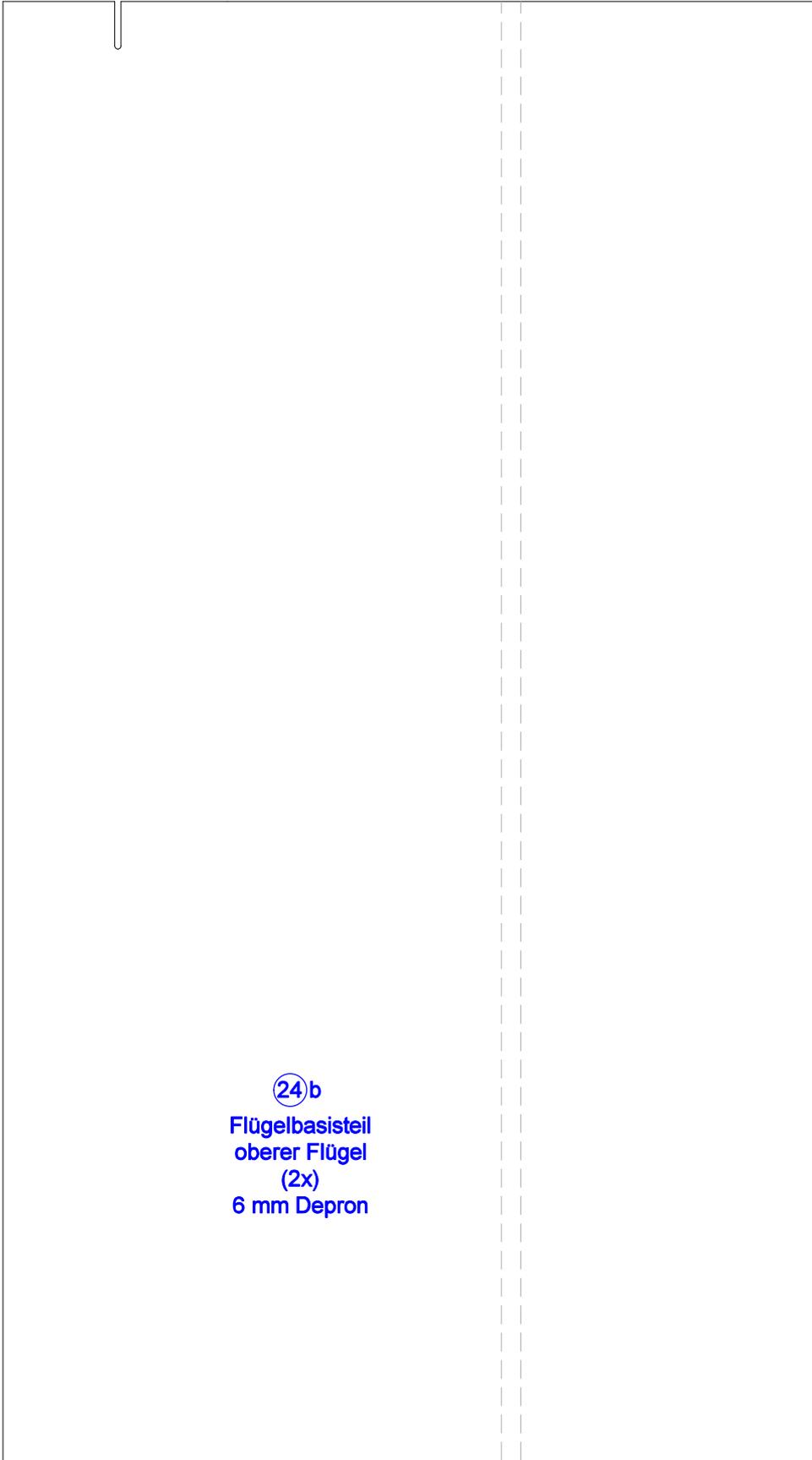


25

26

24c

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



24b

Flügelbasisteil
oberer Flügel
(2x)
6 mm Depron

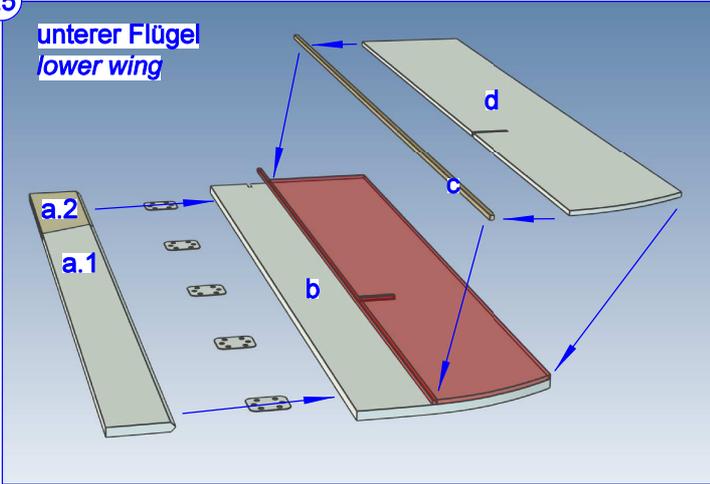


Seite 26



25

unterer Flügel
lower wing

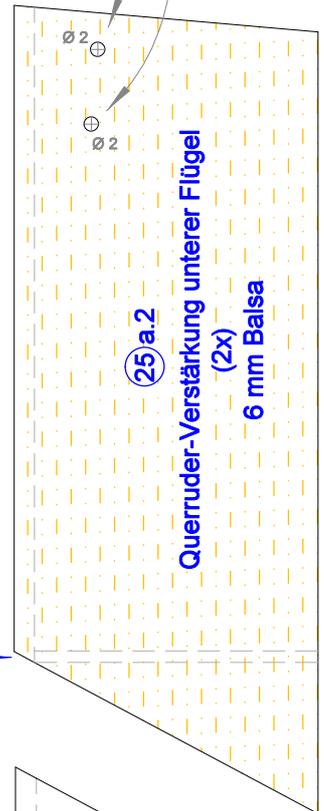
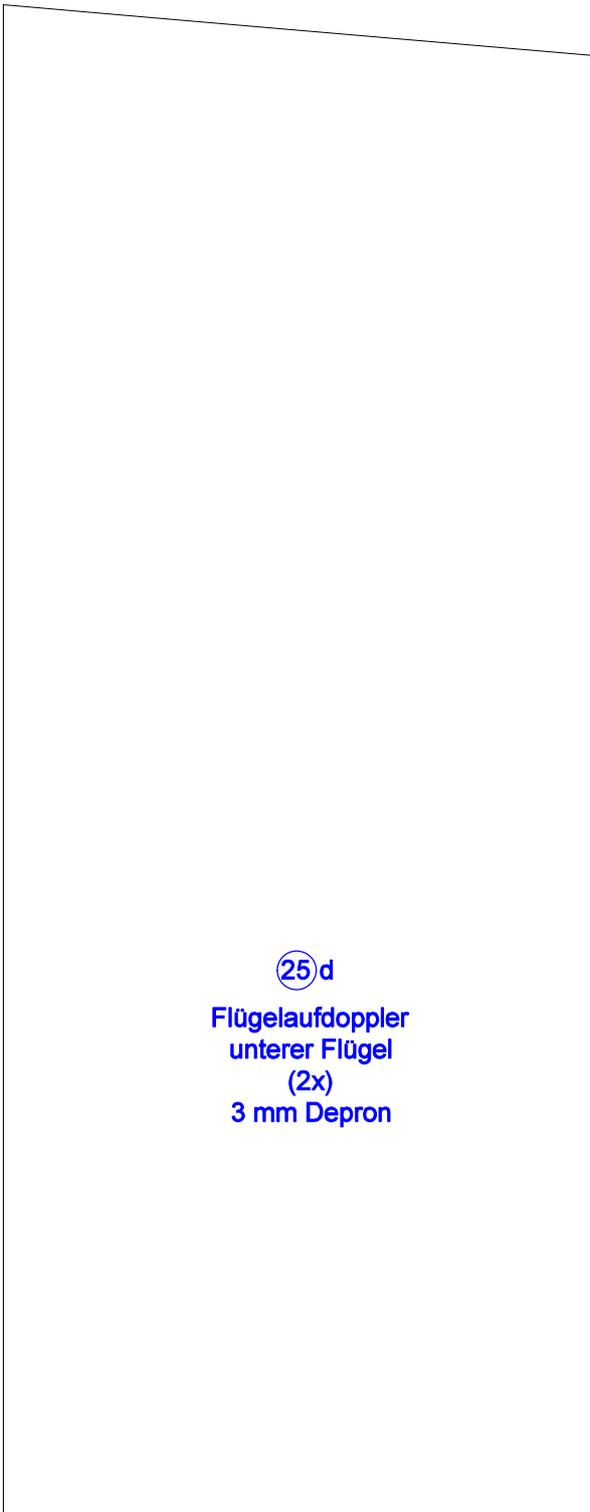


27

28



für
Ruderhorn Multiplex
Größe 1 / #703022



Querruder-Verstärkung unterer Flügel
(2x)
6 mm Balsa

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

25 d
Flügelaufdoppler
unterer Flügel
(2x)
3 mm Depron

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



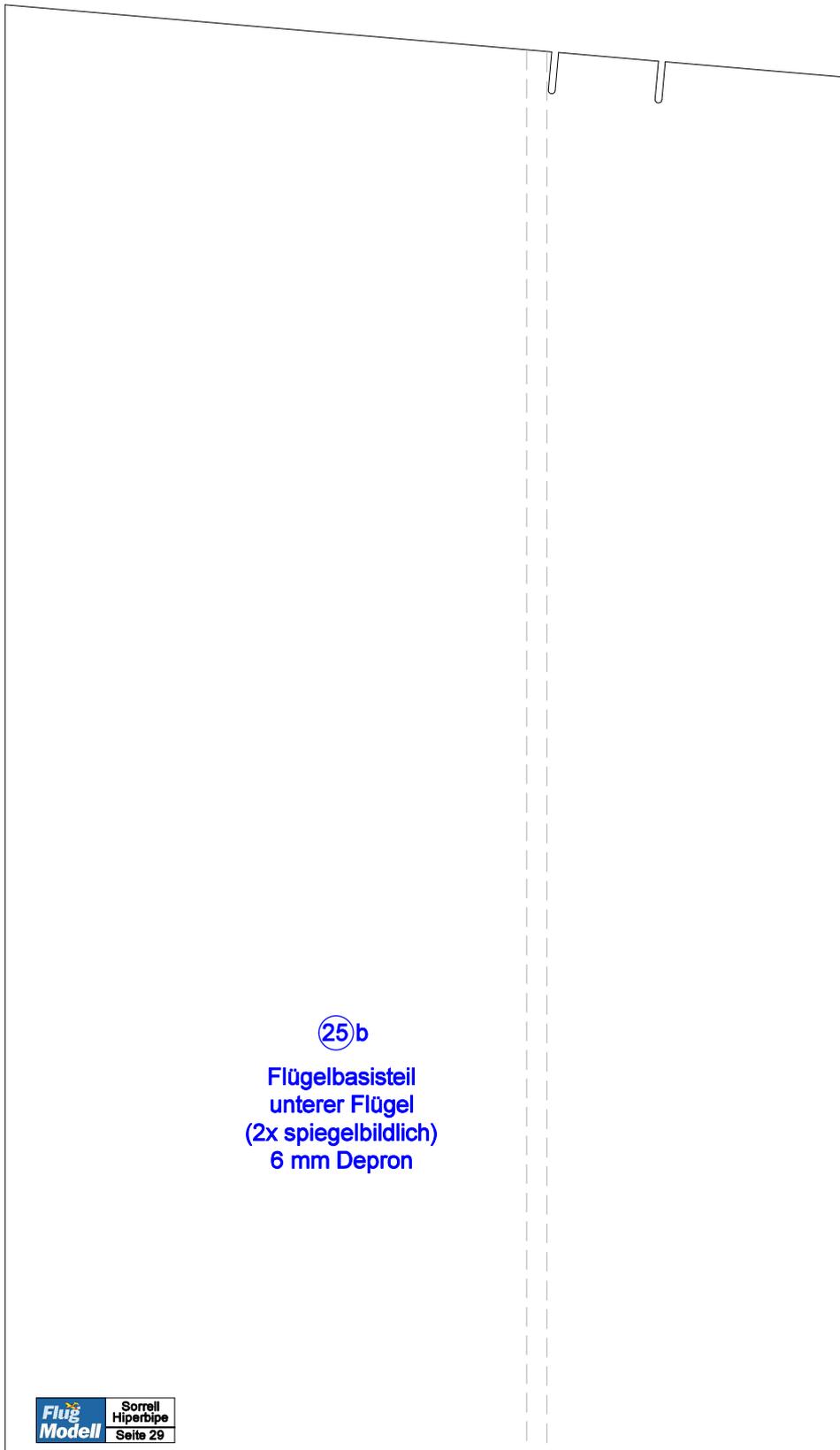


29

30

25c

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



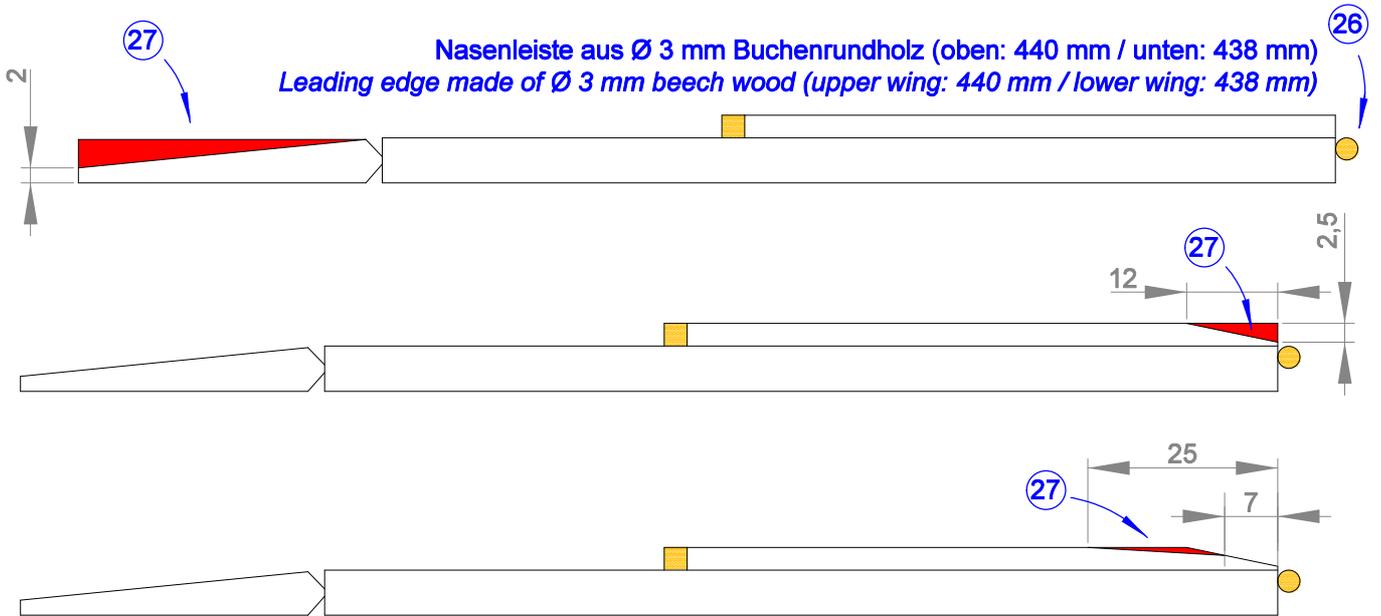
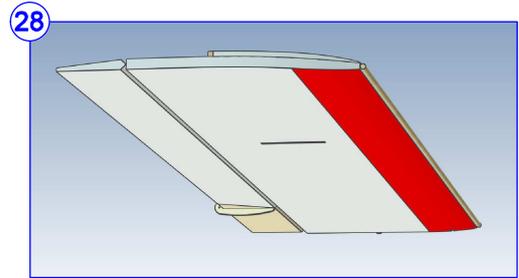
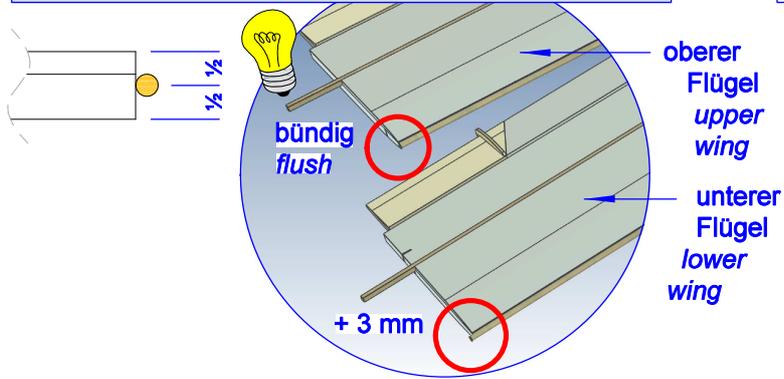
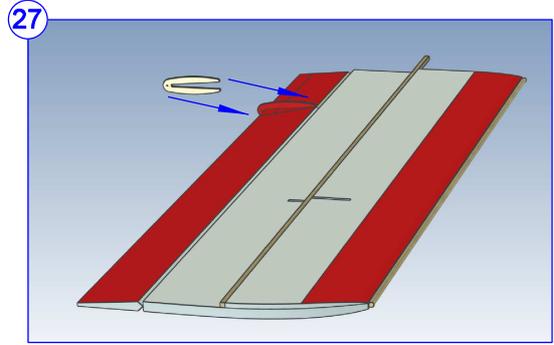
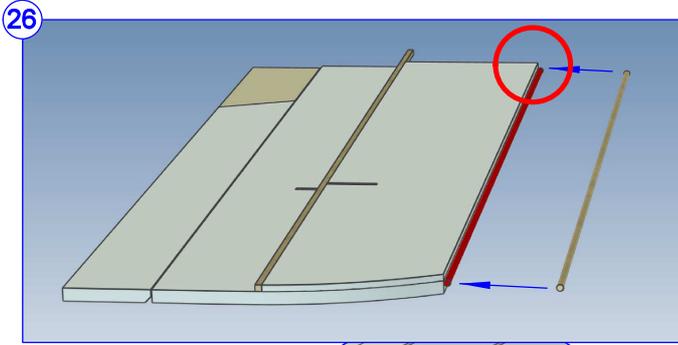
25b

Flügelbasisteil
unterer Flügel
(2x spiegelbildlich)
6 mm Depron

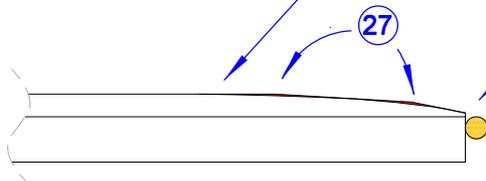


Seite 30



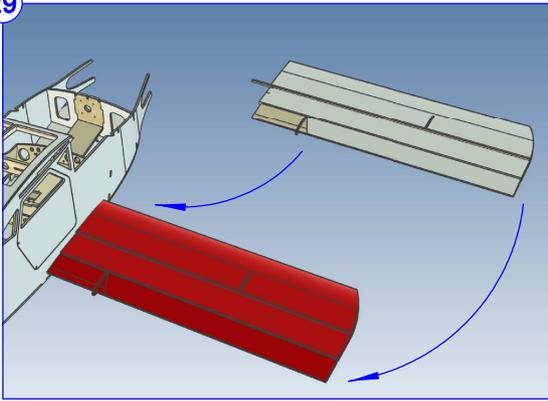


27 QR-Verbindungshorn
 (4x)
 1,5 mm Flugzeugsperrholz

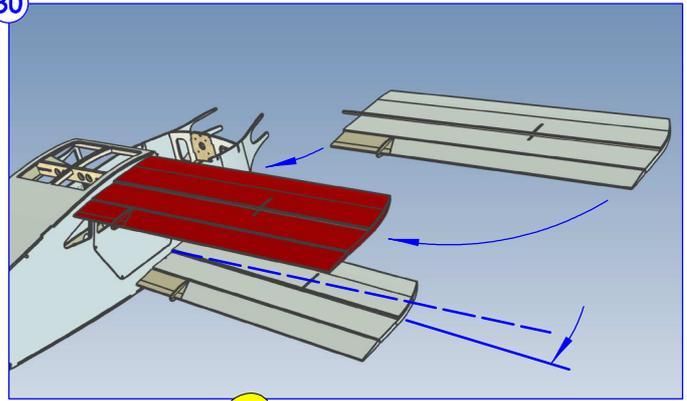


28 Profilschliff an Unterseite wiederholen
 Repeat profile sanding on the underside

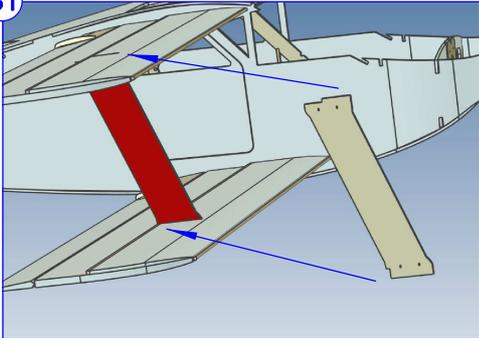
29



30

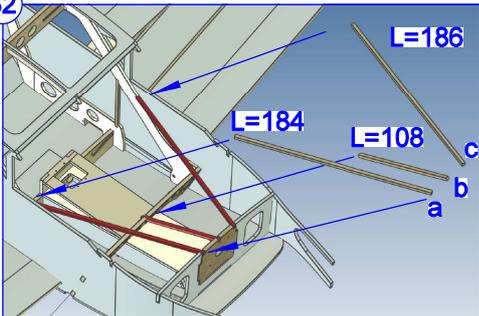


31

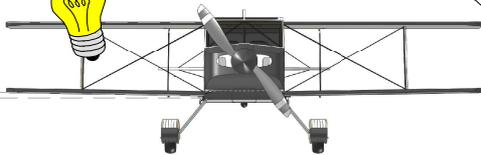


der untere Flügel ist zurückgepeilt.
Lower wing is swept back

32

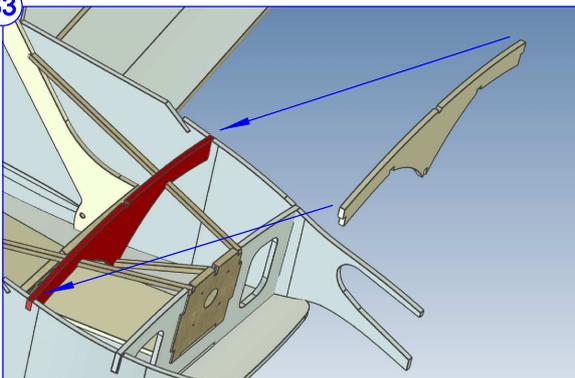


0°



1°

33



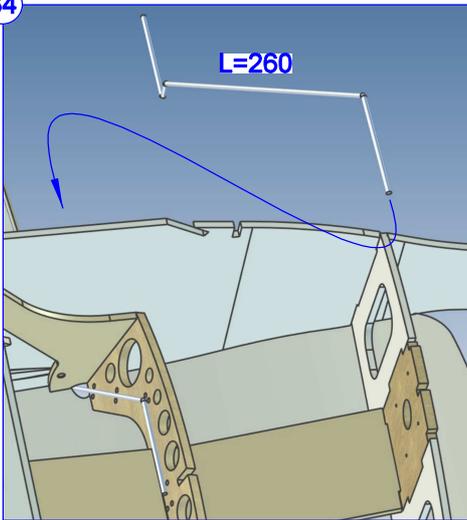
33
Motorhauben-
stütze
3 mm Balsa

31
Flügelstrebe
(2x)
3 mm Balsa

32 a b c

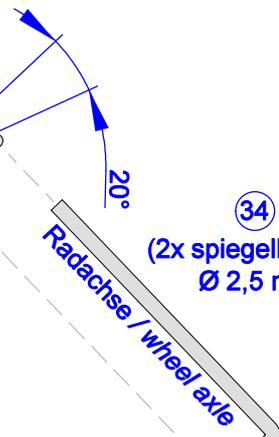
□ 3 x 3 mm Kiefernstab

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.



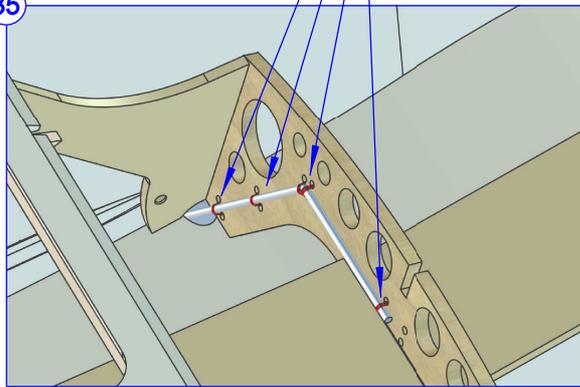
34

(2x spiegelbildlich)
Ø 2,5 mm

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 music wire for threading.

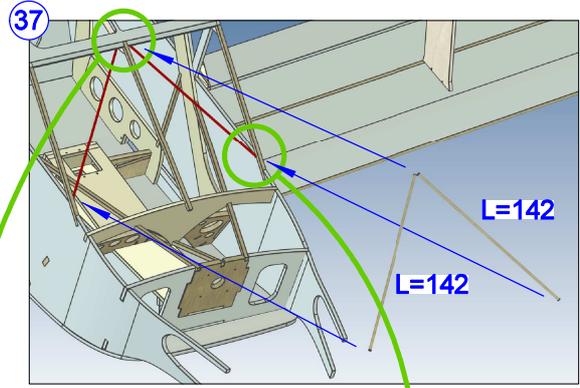
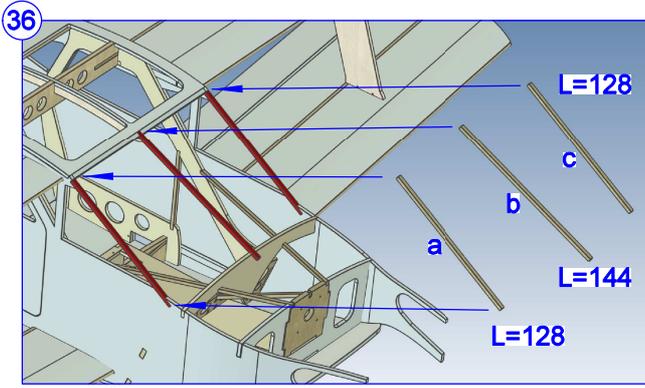


Die Achsbiegung zeigt nach vorn

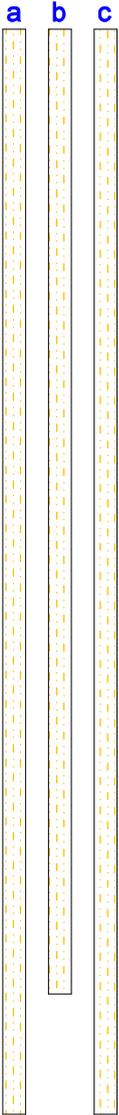
The axle bend points to the front

Flugrichtung
flight direction

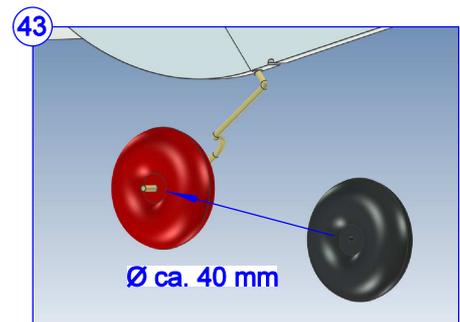
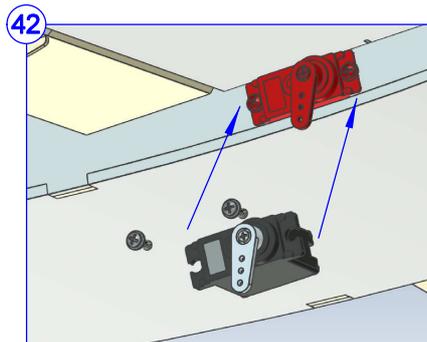
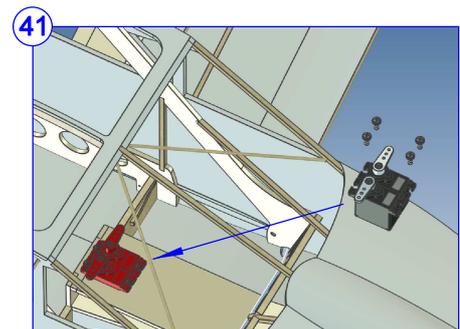
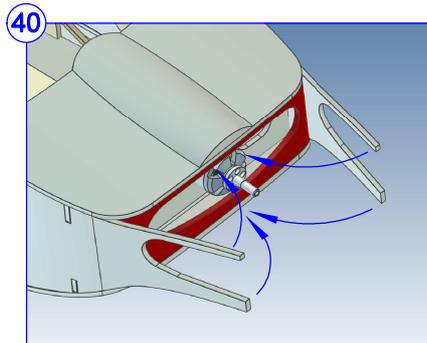
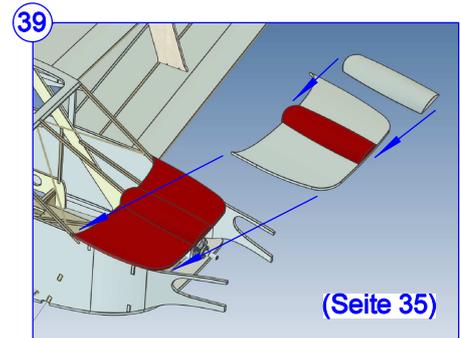
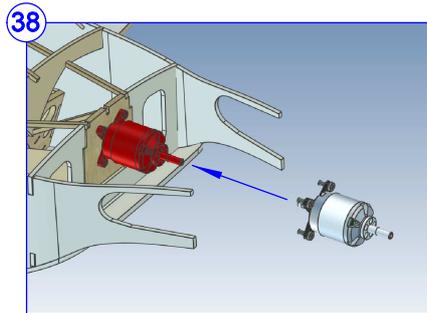
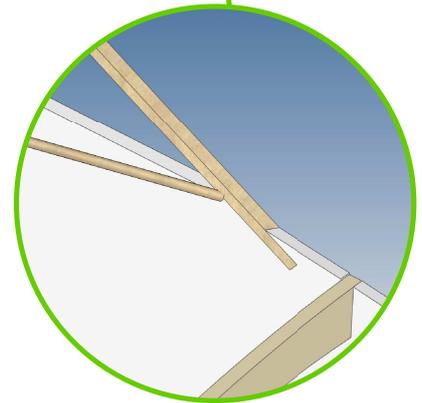
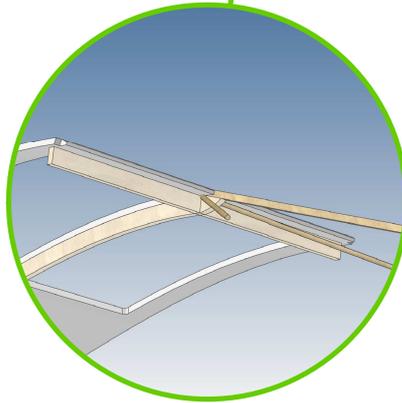


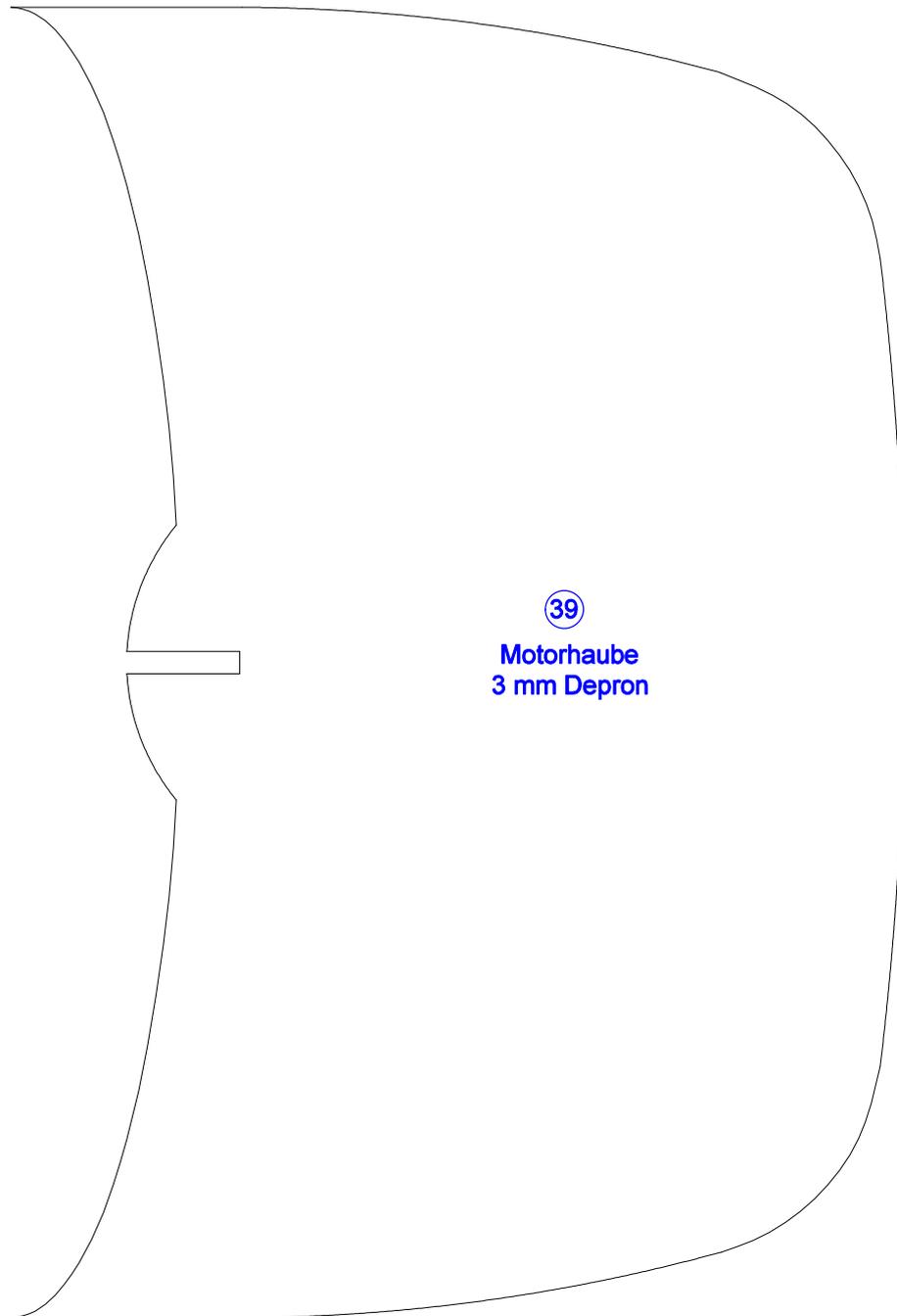


36 □ 3 x 3 mm Kiefernstab



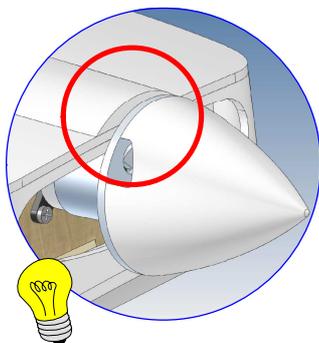
37 Ø 2 mm Buchenrundstab



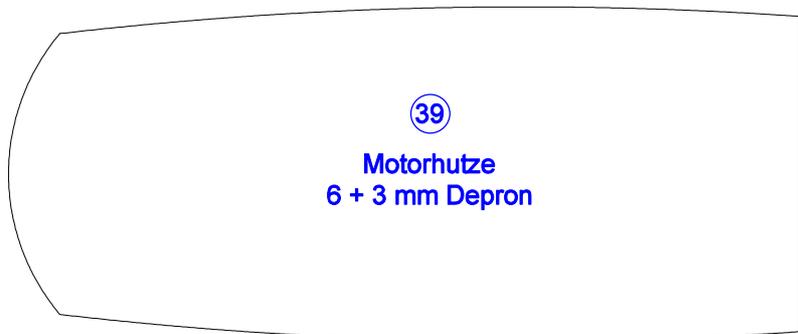


39

Motorhaube
3 mm Depron



Konturschablone hinten



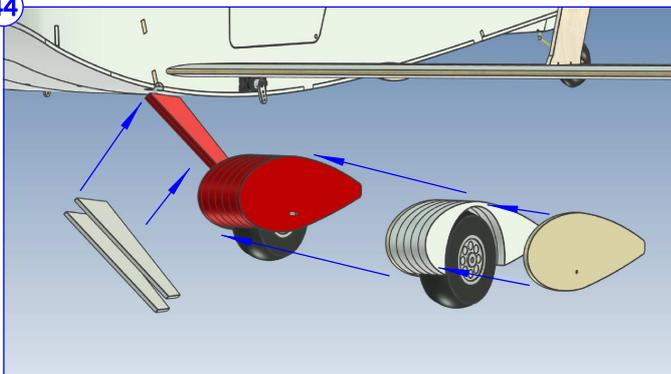
39

Motorhutze
6 + 3 mm Depron

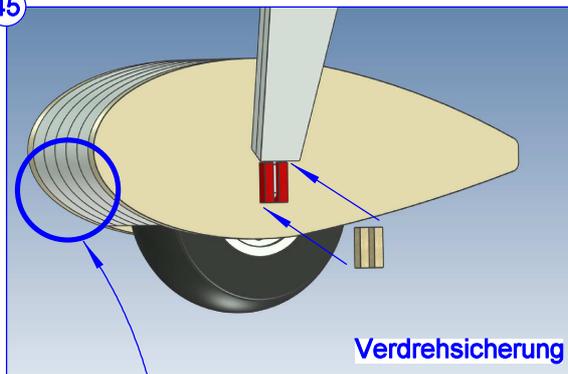
Konturschablone vorne

Oberfläche an Spinner-Durchmesser anpassen
sand surface according to contour of spinner base

44



45

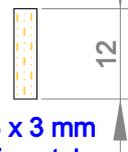


Verdrehsicherung

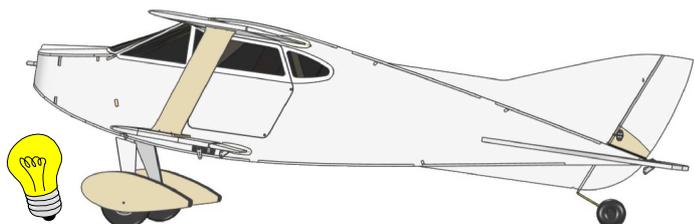
eventuell den
Stapel an die
Radbreite
anpassen

possibly adjust
the stack to the
wheel width

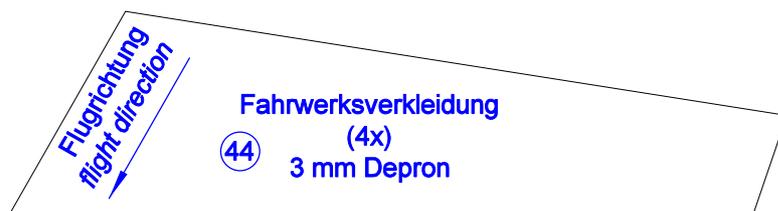
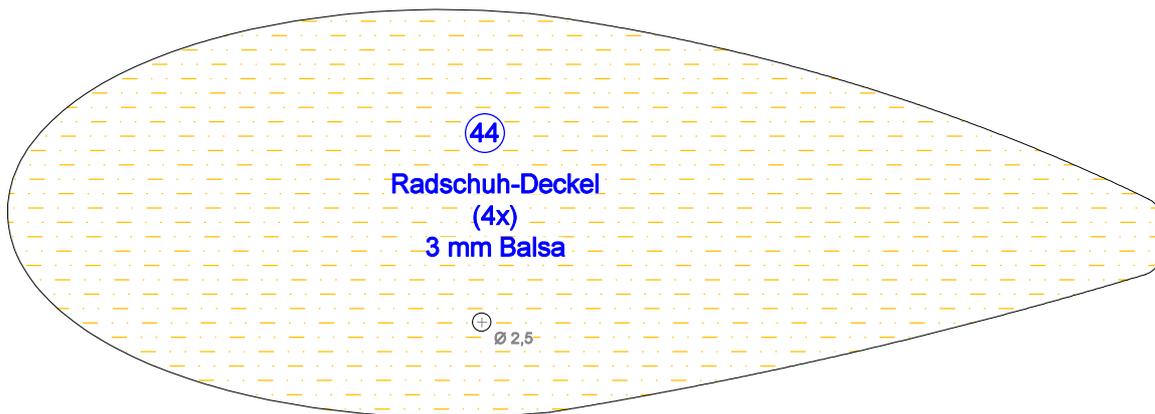
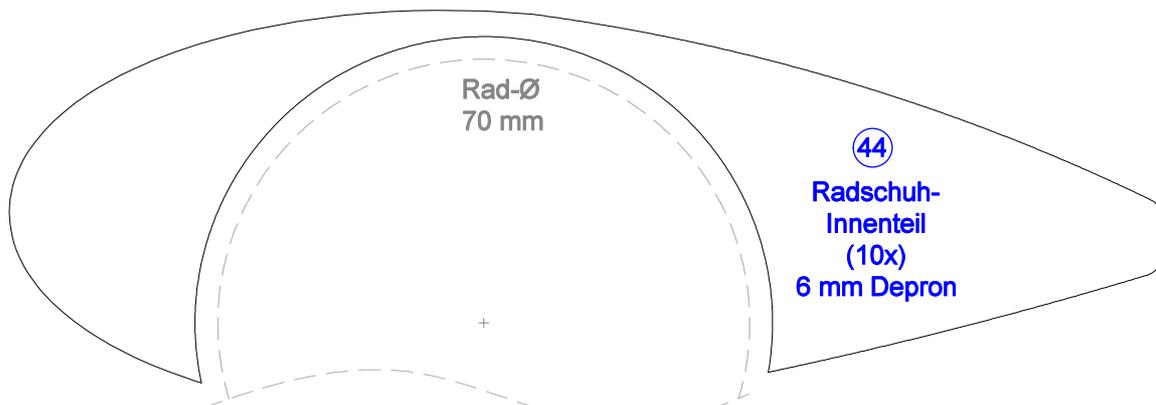
45 (4x)

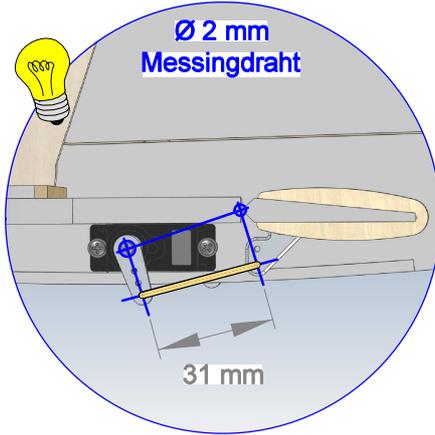
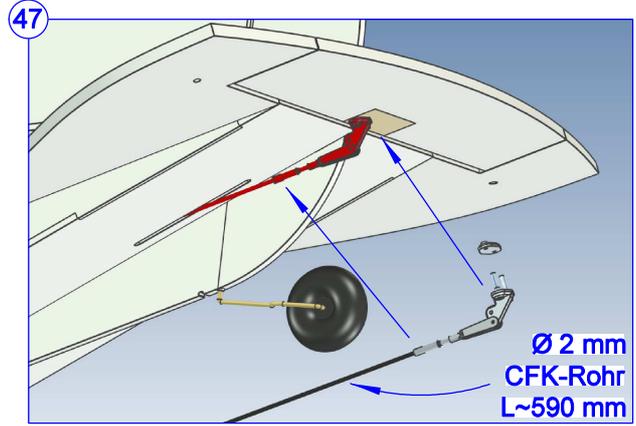
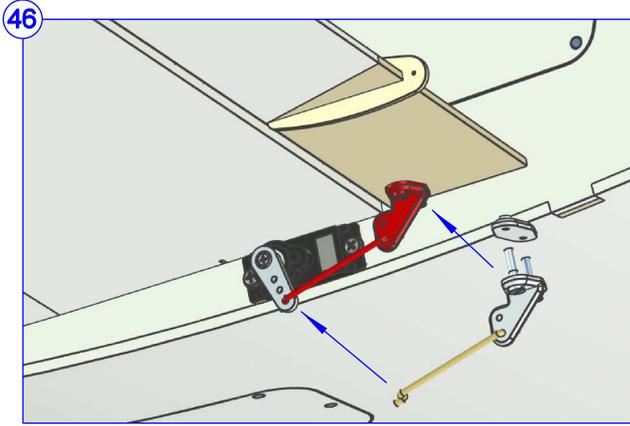


□ 3 x 3 mm
Kiefernstab



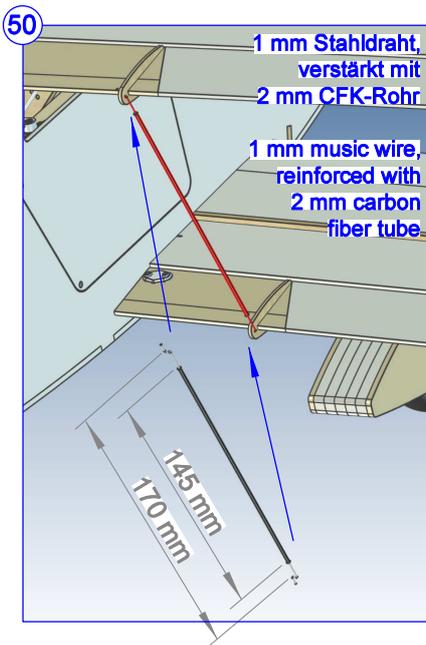
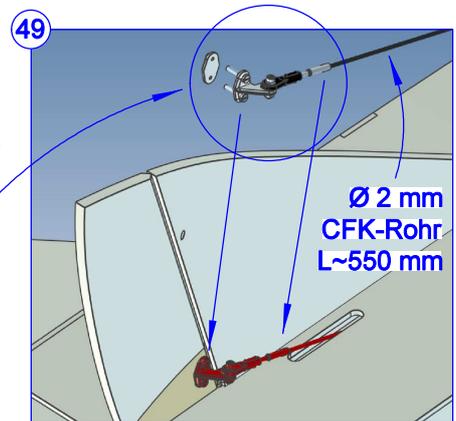
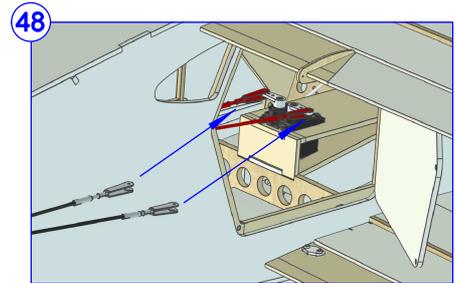
Ausrichtung der Radschuhe
Orientation of the wheel covers





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

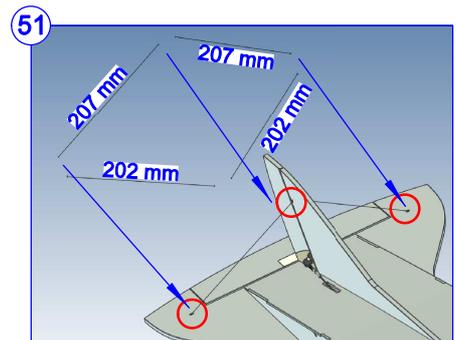


Hier ist eine Kugelkopf-Anlenkung ideal

A ball head linkage is ideal here

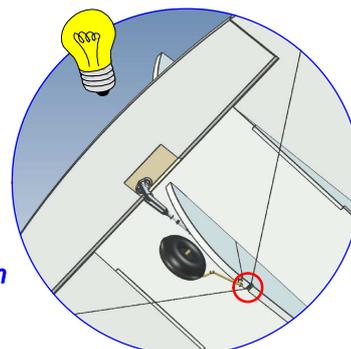
Bei einer Anlenkungslänge von 170 mm stehen die Querruder identisch.

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

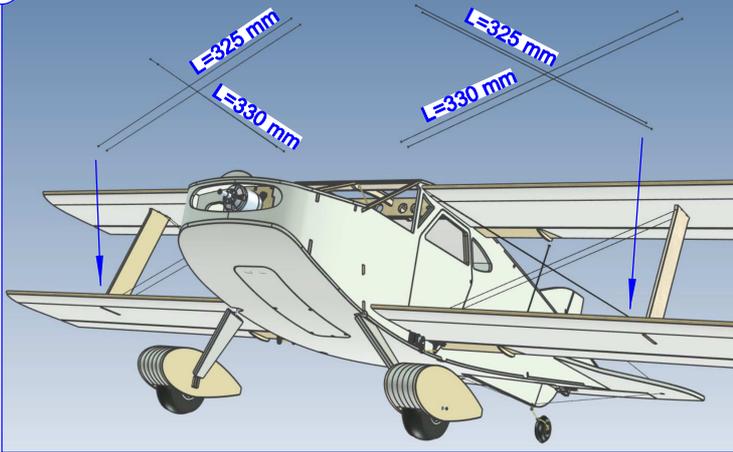


Kleben Sie die Leitwerksverstrebungen aus 1 mm CFK-Stäben an den gezeigten Positionen ein.

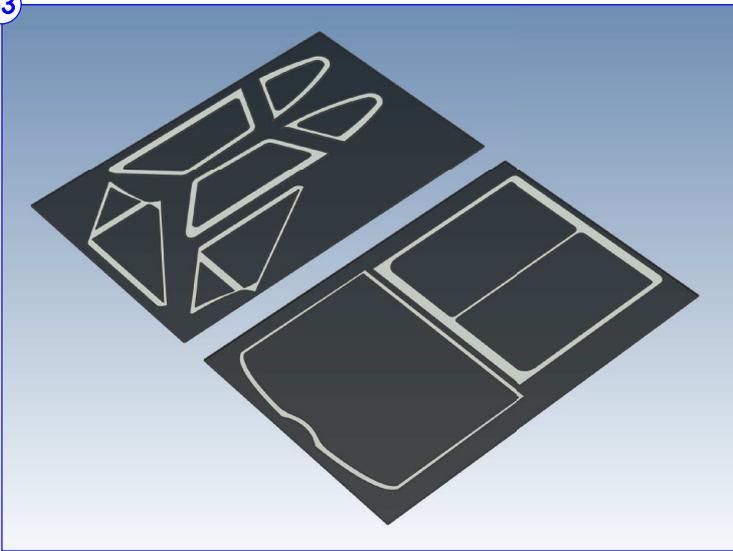
Glue in the tail struts made of 1 mm carbon fiber rods at the positions shown.



52

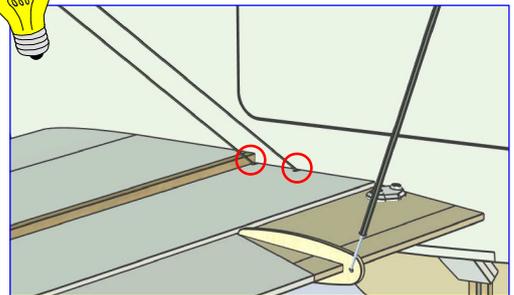
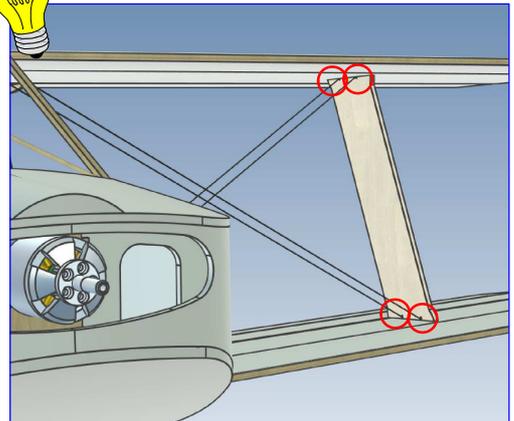
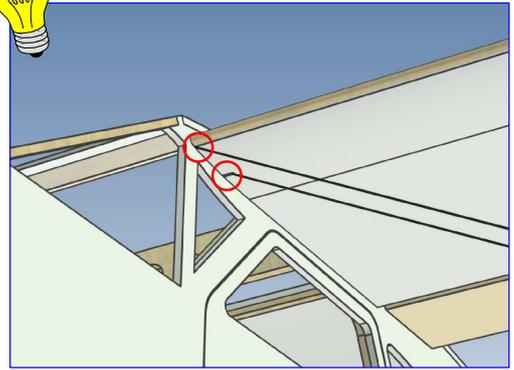
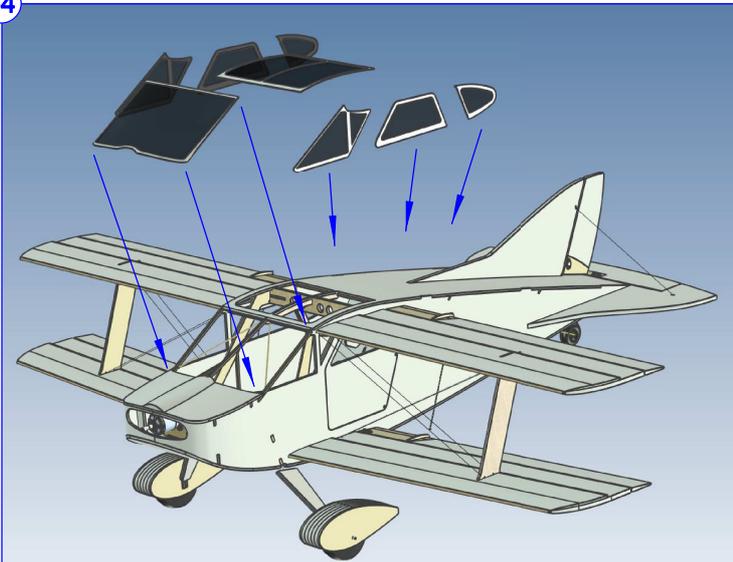


53



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.

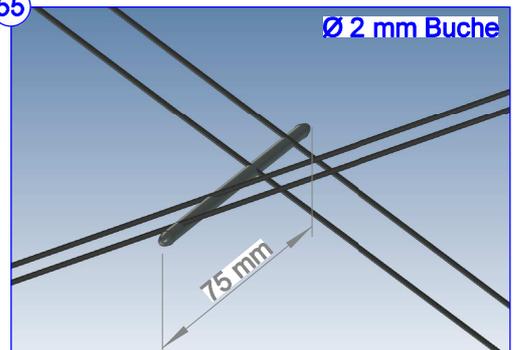
54



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.

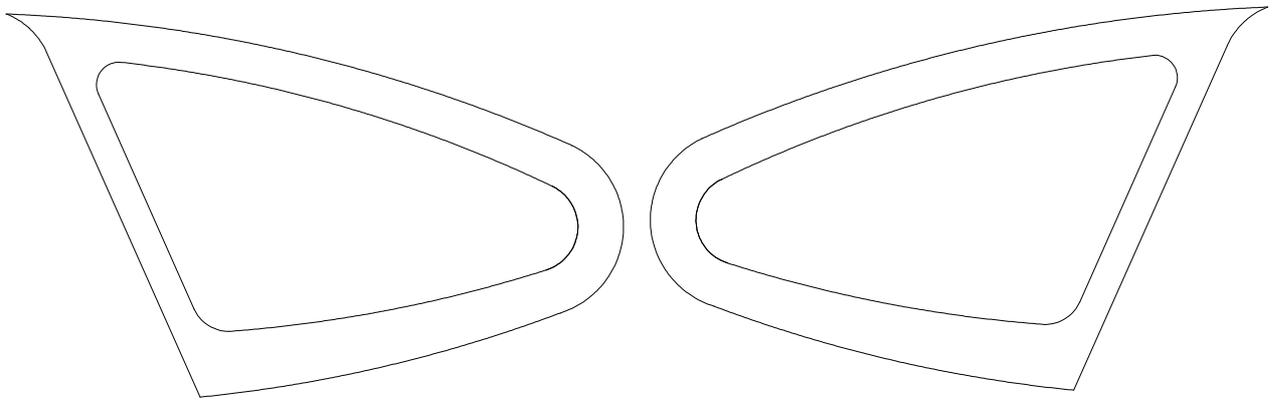
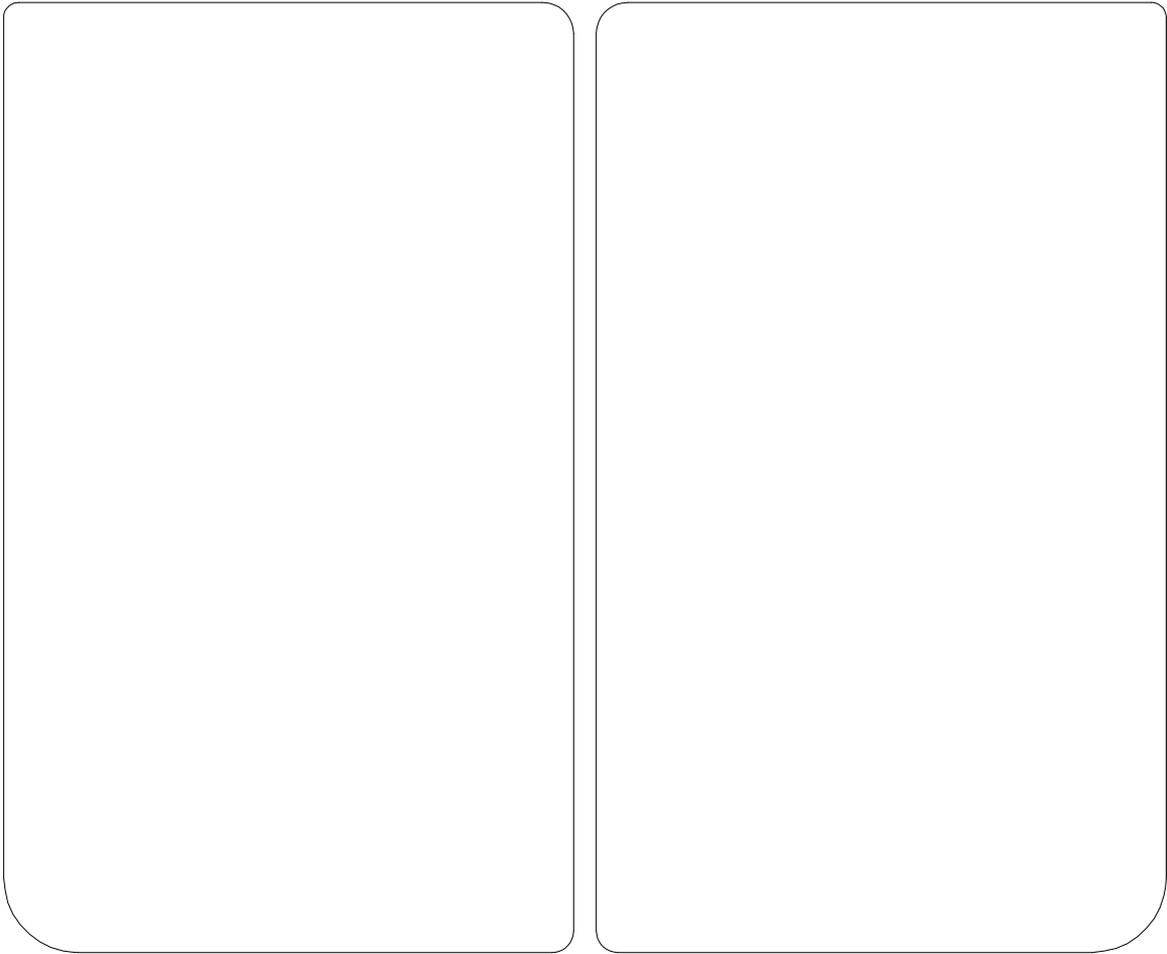
The wing bracing consists of 1 mm carbon fiber rods. Glue these in their intended positions and make sure that the upper wing is horizontal. The lower one will align itself automatically.

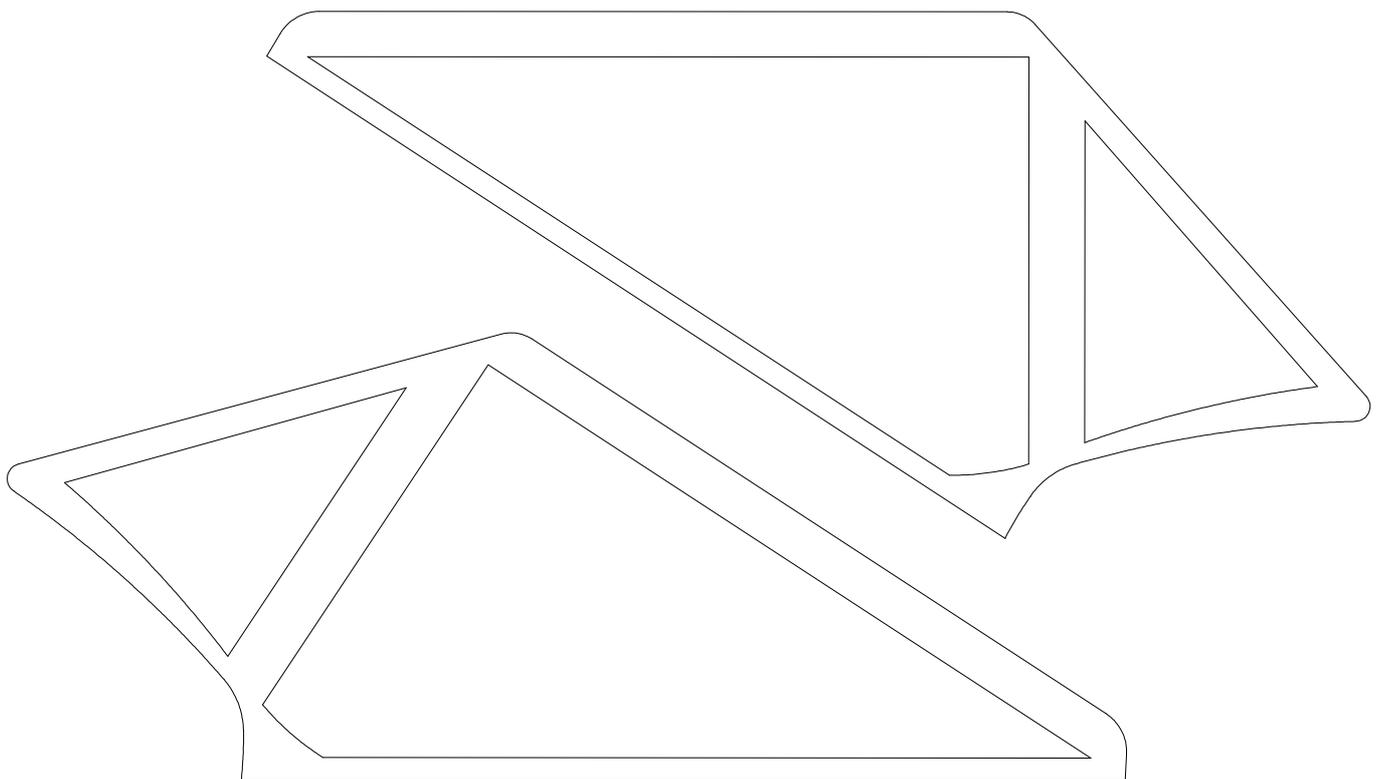
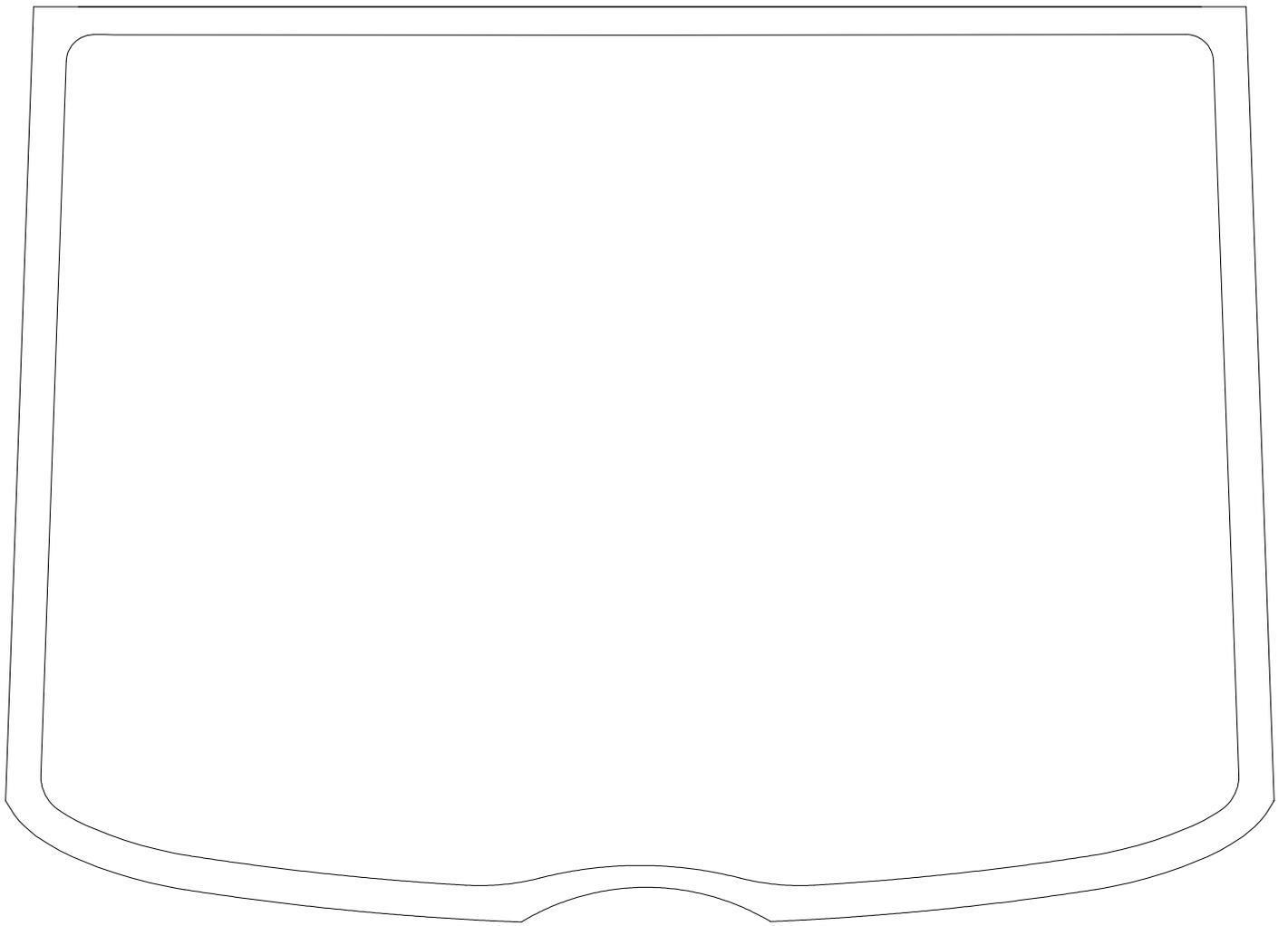
55

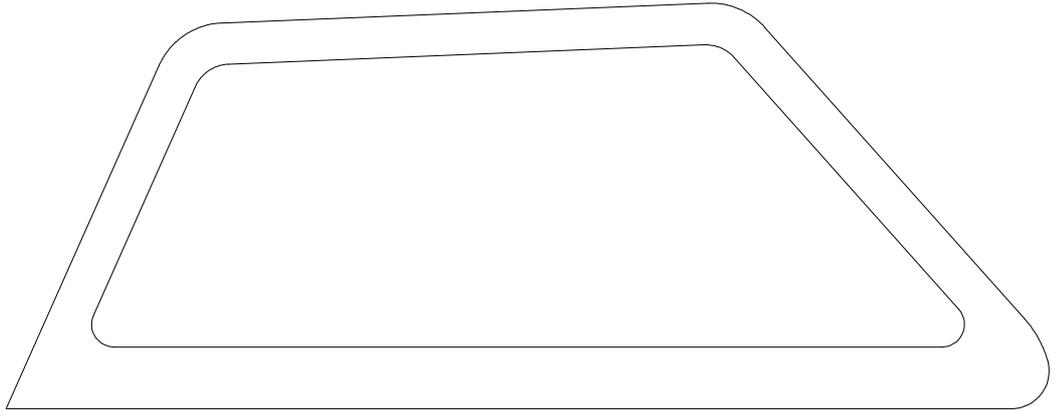
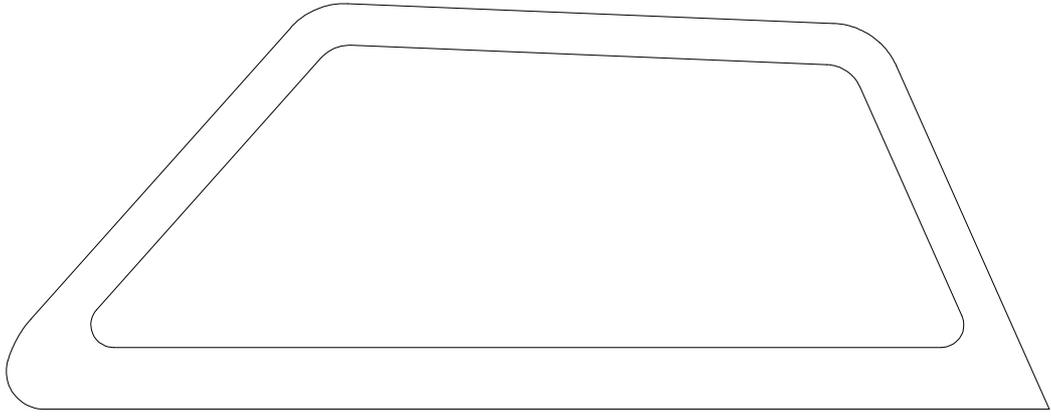


Kreuzungsverbinder
crossing connector

Flugrichtung
flight direction

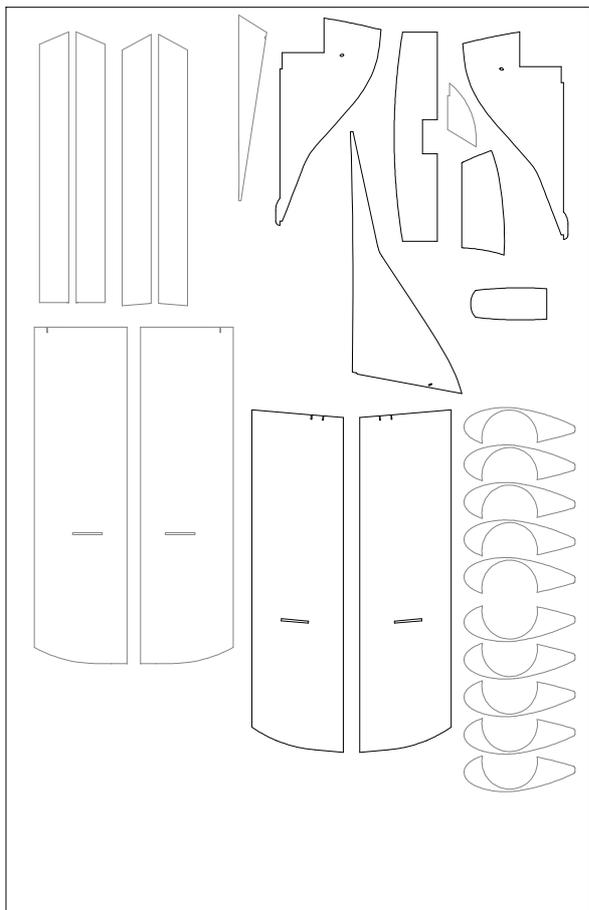




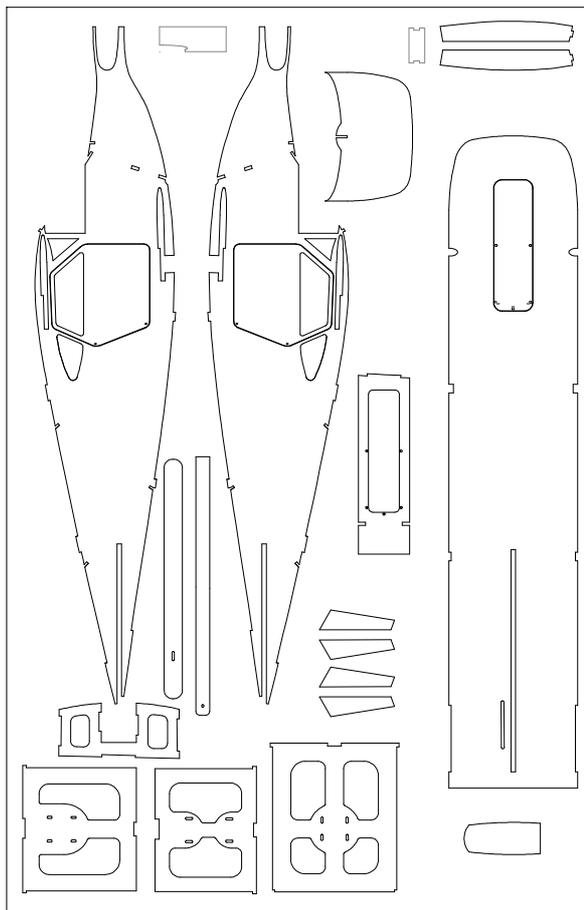


Anhang: Materialebedarf / -Zuschnitt

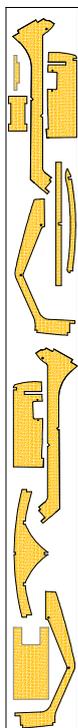
Material	Anzahl	Abmessungen [mm]	benötigt in Bauschritt
3 mm Depron	2 Platten	1250 x 800	diverse
6 mm Depron	1 Platte	1250 x 800	diverse
3 mm Balsa (mittelhart)	2 Brettchen	1000 x 100	diverse
6 mm Balsa (mittelhart)	1 Brettchen	300 x 100	diverse
4 mm Pappelsper Holz	1 Platte	200 x 200	diverse
1,5 mm Flugzeugsperrholz	1 Platte (Reststück)	100 x 50	(27)
Vierkantstab □ 3 x 3 mm Kiefer	4x	498	(24) (25)
	1x	186	(32)
	1x	184	(32)
	1x	108	(32)
	2x	144	(36)
	1x	128	(36)
	1x	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	260	(34)
Messingdraht Ø 2 mm	1x	250	(17)
	2x	50	(46)
Kunststoffrohr, außen-Ø 3 / innen-Ø 2,1 mm	2x	280	(12)
	1x	76	(17)
Federstahldraht Ø 1 mm	2x	190	(50)
	1x	90	(35)
CFK-Rohr, außen-Ø 2 / innen-Ø 1 mm	1x	590	(47)
	1x	550	(49)
	2x	145	(50)
CFK-Stab Ø 1 mm	2x	202	(51)
	2x	207	(51)
	4x	330	(52)
	4x	325	(52)



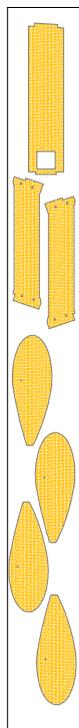
6 mm Depron



3 mm Depron



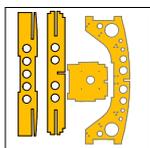
3 mm Balsa



3 mm Balsa



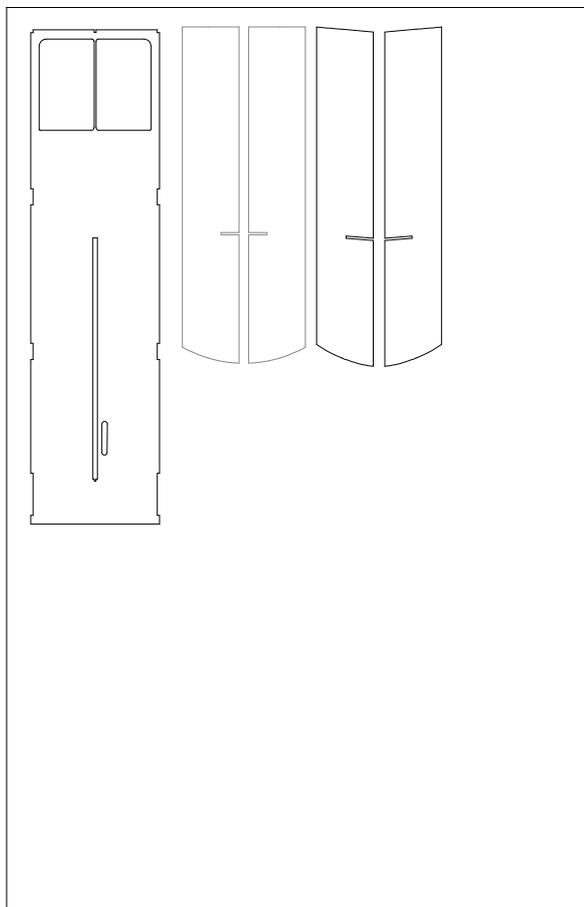
6 mm Balsa



4 mm Pappelsperholz



1,5 mm Flugzeugsperrholz



3 mm Depron

