aero-naut



TRIPLE NEO

SPEED
R.E.S.
THERMIC

Accesories for your model aeroplane:

For electric power:

CAMcarbon folding props

The top selling folding props

For decades aero-naut has been one of the leading companies regarding design and production of highly efficient folding props. Model aeroplane pilots all over the world rely on CAMcarbon folding props!

CAMcarbon blade design is synonymous with precision and efficiency. Our prop blades are produced using a mixure of carbon fibres and nylon which offers a high degree of strength and torsion-resistance.



For successful construction

We recommend aero-pick modeller´s pins for construction. Design and material of aero-pick pins have been chosen with the modeller in mind.
VE = 20 pcs.
Order-No. 7506/77



We recommend our balsa-ply building boards for wing construction.
Our building boards are made up of several layers of balsa which make it easy to position and fix model parts using aero-pick modeller´s pins.

size ca. 400 x 1.500 mm
thickness: 25 mm
Order-No. 7506/77









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Most wood parts of this kit are laser-cut and numbered. The included stripwood can be identified using the parts list at the end of this manual. Use a sharp modeller´s knife to remove parts from laser-cut sheets. Use sandpaper to remove residue resulting from the laser-cutting process as well as retaining tabs to achieve a good surface for gluing.
Always check that parts fit perfectly and correct, if necessary, before you glue. Give glue sufficient time to dry or cure, before your proceed to the next step.

Construction should be according to the step-by-step instructions provided in this manual. Remove only those parts from the laser sheets which are required for the current building step.

We recommend white glue (if not otherwise noted) for gluing, which offers good strength and low weight. White glue retains a certain degree of elasticity after the glue has cured and will stand up to any loads which occur during flying.

Building sections

Please identify and read thoroughly the sections relevant for you model version.

- Fuselage + tail unit
- Triple SPEED
- Triple R.E.S.
- Triple thermic
- Wing centre section

Tips & Notes

Attention! Please follow building instructions precisely.

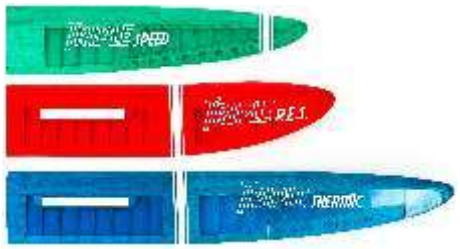
Note! Additional information for current building step.

To avoid damage to parts, use a sharp modeller´s knife to cut individual parts from laser sheets.

Carefully sand off retaining tabs for good results.

For construction we recommend our aero-pick modeller´s pins. Order.-No. 7855/02

Please use recommended glue.



Electric power

Motor	Ø 28-mm-outrunner, from ca. 150 W
ESC	from 20 A
Battery	3S-LiPo, up to ca. 2.500 mAh

Recommend components for electric power

CAMcarbon folding prop*	9×5" to 12×7"	
prop adapter*	motor shaft 3,00 mm	Order-No. 7124/23
	motor shaft 3,17 mm	Order-No. 7124/37
	motor shaft 4,00 mm	Order-No. 7124/04

Recommended RC components

servo for tail unit + ailerons, up to 11,5 mm wide
servo for spoiler, up to 10 mm wide

Recommended glues

Material	*Glue (Order-No.)*
wood/wood	Ponal Express (7638/10), UHU hart (7631/02)
wood/metal	UHU Plus sofortfest (7633/07)

Technical Data

	TRIPLE speed	*TRIPLE R.E.S.*	*TRIPLE thermic*
Order-No.:	1128/03	1128/04	1128/05
Wingspan:	1.810 mm	1.930 mm	2.580 mm
Length:	1.200 mm	1.200 mm	1.200 mm
Wing area:	ca. 29,5 dm²	ca. 36,3 dm²	ca. 47 dm²
Weight:	ca. 840 g	ca. 870 g	ca. 980 g
RC-functions:	ESC (opt.)	ESC (opt.)	ESC (opt.)
	elevator/rudder	elevator/rudder	elevator/rudder
	ailerons	spoilers	airlerons
			spoilers

* compare with data sheet of your motor

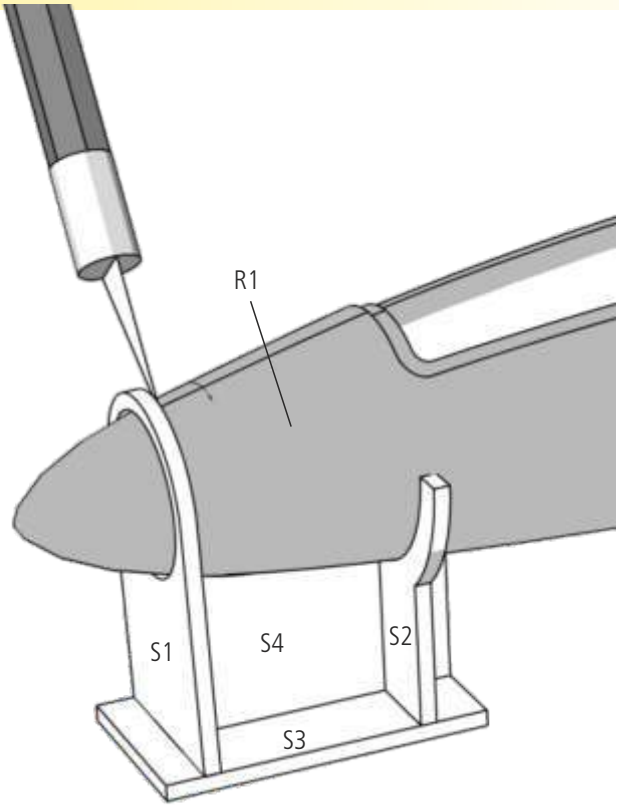
Fuselage

To use electric power in your Triple Neo the nose of the fuselage needs to be cut off with the help of a template. For the glider version skip building steps 1-6.

1 Glue together fuselage template from parts S1-S4. Leave to dry.

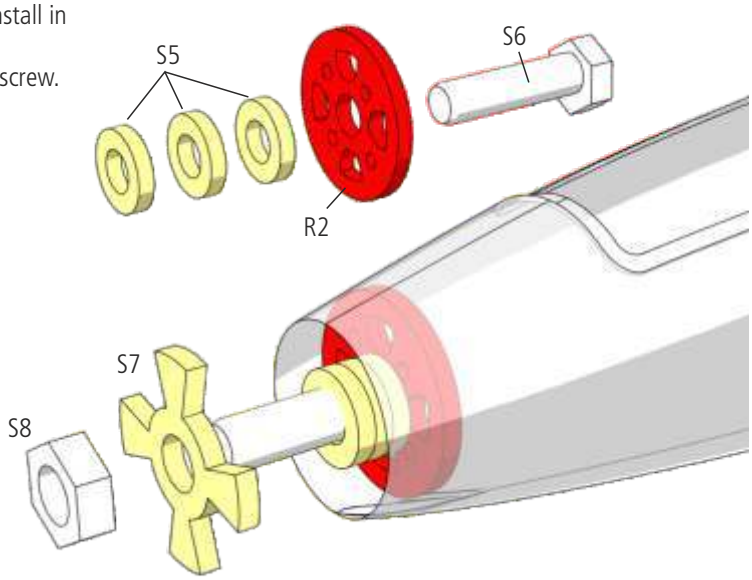
Slide fuselage R0 into template as shown. Please note that there is a small bump on the underside of the fuselage which fits into template exactly.

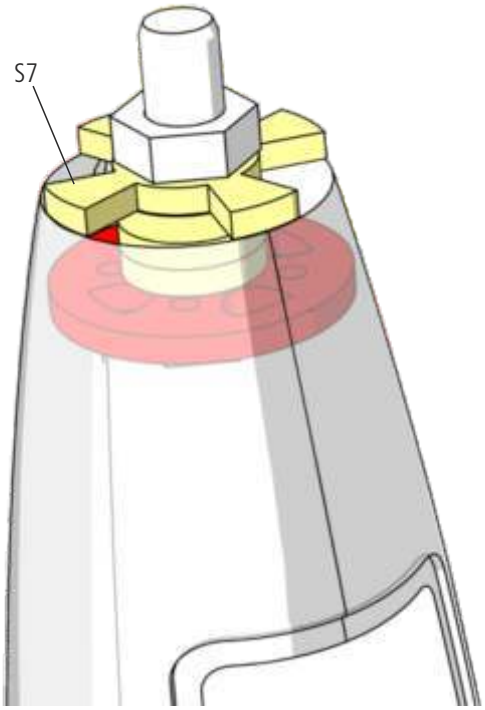
Run a sharp knife around the fuselage as shown to mark the cut-off line.
Remove the template and cut off the nose with a razor saw. For best results rotate the fuselage while you saw.



2 Install motor mount R2 using screw S6, spacers S5, installation tool S7 and nut S8.

Slide motor mount R2 and spacers S5 onto screw S6 and install in fuselage through cockpit opening.
From the outside slide installation tool S7 and nut S8 onto screw. Then tighten nut with your fingers.





3 Bring fuselage in a vertical position and glue motor mount in place. Make sure installation tool S7 is positioned correctly on the fuselage as shown.

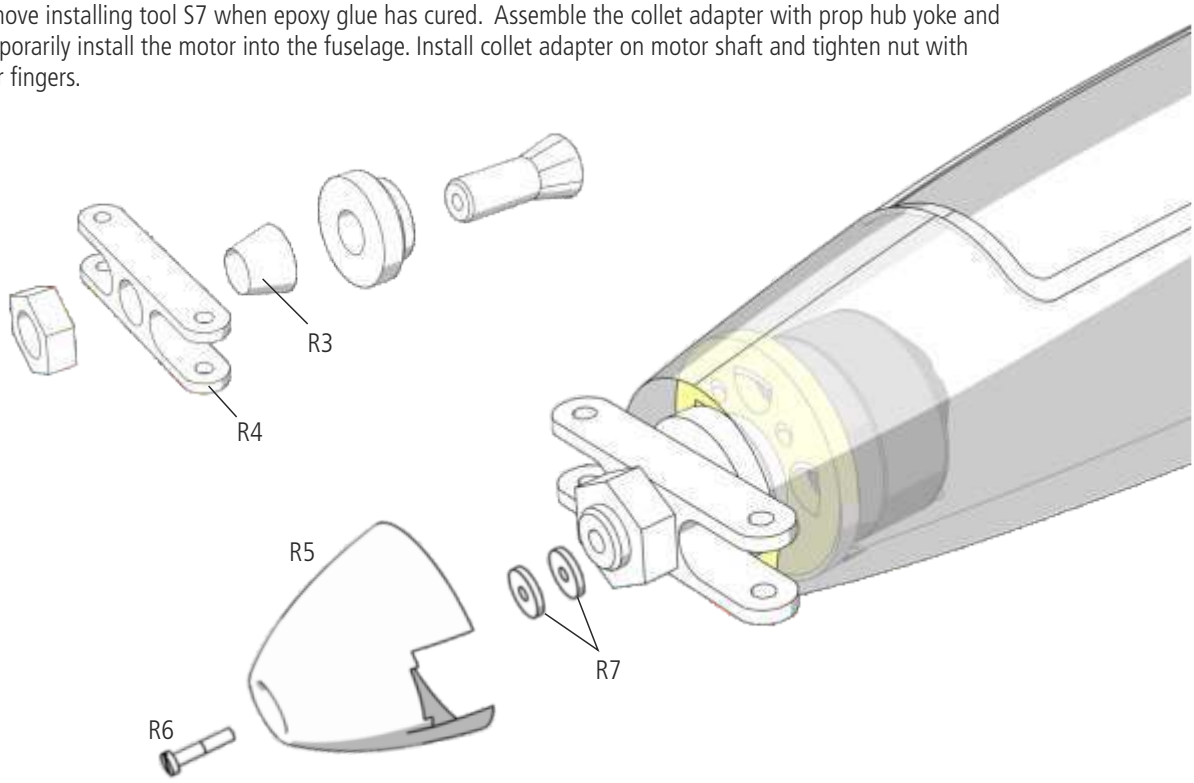
Please note that there is a small gap between motor mount R2 and the fuselage. This is necessary for the motor mount to be positioned correctly.

Tack-glue the motor mount in place with four drops of epoxy applied through the openings in S7.

Do not apply glue to completely glue the motor mount in place!

To complete the next building step you will need the collet prop adapter which is available as an accessory. Make sure the prop adapter fits the prop shaft of your motor (for Order-No. see page 2).

4 Remove installing tool S7 when epoxy glue has cured. Assemble the collet adapter with prop hub yoke and temporarily install the motor into the fuselage. Install collet adapter on motor shaft and tighten nut with your fingers.



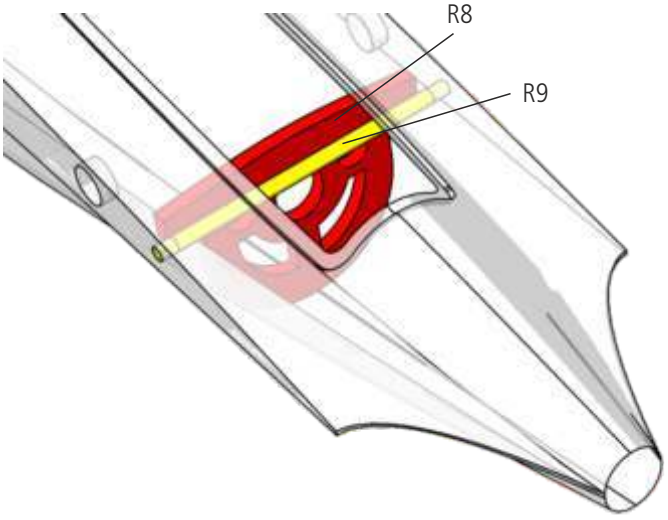
5 Install spinner R5 onto prop adapter using two washers R7 for correct spacing, insert and tighten screw R6. Check spinner for correct position in relation to fuselage. Correct, if necessary.

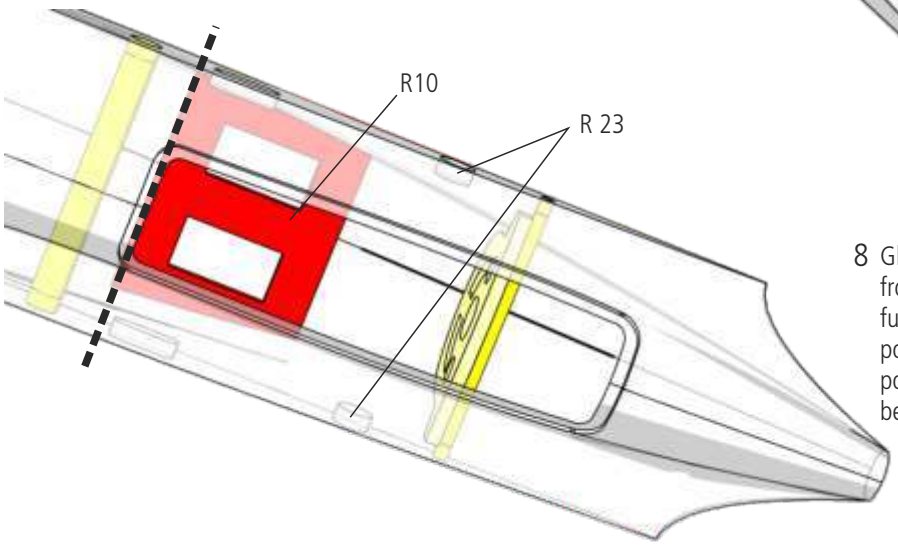
6 When spinner position is correct, disassemble/remove installed parts and glue motor mount in place with epoxy resin mixed with cotton flocks or chopped glass fibre strands. Leave to cure.

7 Glue in place brass tube R9 together with former R8 in fuselage. Trial-fit R8 before you glue and - if necessary - correct contour of former to fit fuselage.

Fit and glue in place four magnets R23.
Attention: Make sure you check polarity of magnets if you have already built a set of wings for your Triple.

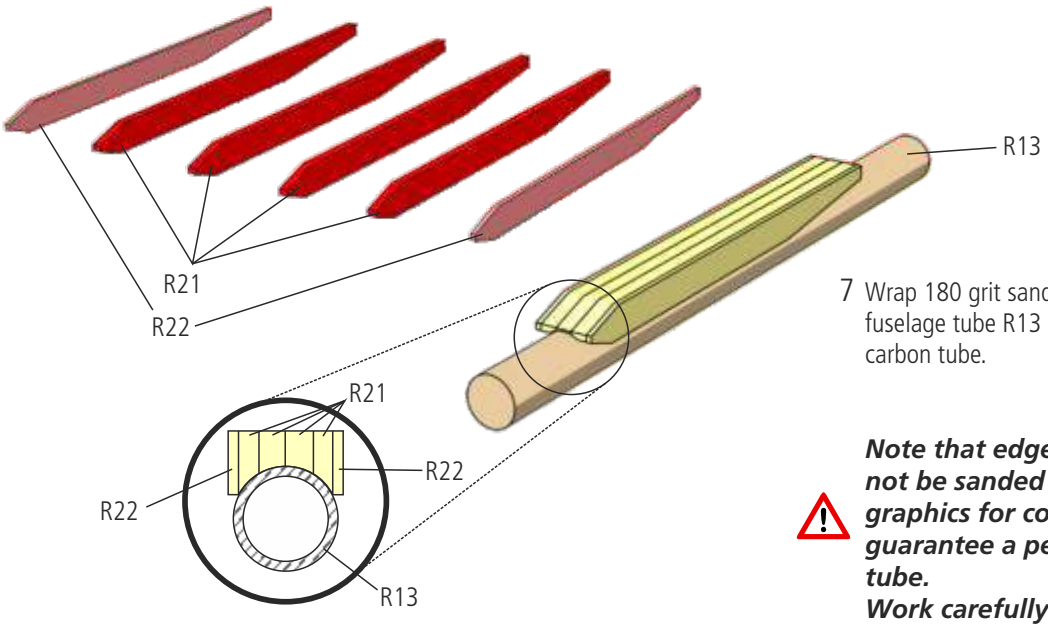
Use epoxy glue mixed with cotton flocks for gluing.





8 Glue in place servo tray R10. Please note that front end of tray is flush with opening in fuselage (see graphics). To get correct vertical position of tray, temporarily install servos, mark position of tray in fuselage and remove servos before you glue.

9 Glue together balsa parts R21 and plywood parts R22 to form the tailplane support.

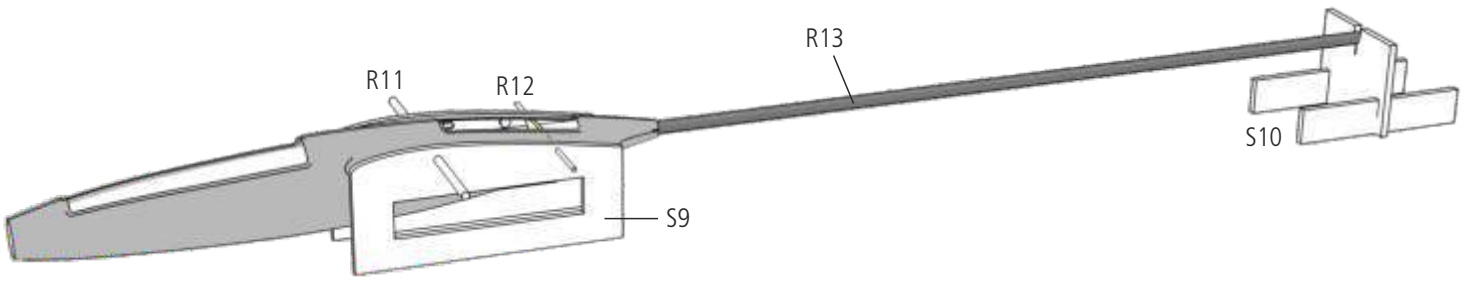


7 Wrap 180 grit sandpaper around the carbon fuselage tube R13 and sand tailplane support to fit carbon tube.

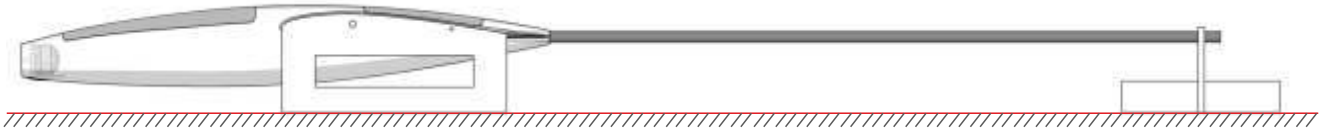
Note that edges of plywood parts must not be sanded down. See enlarged graphics for correct result. This will guarantee a perfect fit on the fuselage tube.
Work carefully and glue support to fuselage tube with epoxy. Make sure it is absolutely straight and horizontal.

10 Use templates S9 and S10 to install the fuselage tube. Insert wing joiner R11 and torsion rod R12 in corresponding sleeves in fuselage and slide templates S9 onto R11/R12.
Insert fuselage tube R13 into fuselage and rear former. Place end of tube in template S10 as shown to find correct position for tube.

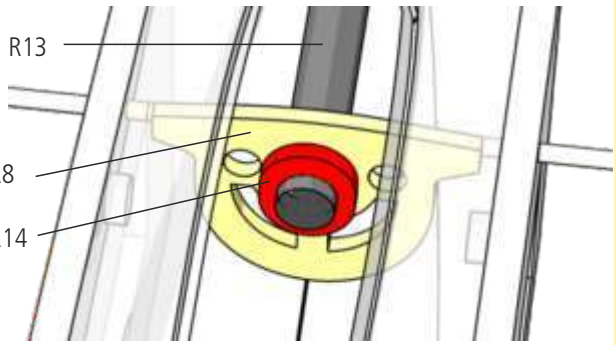
Do not glue tube to fuselage at this stage!

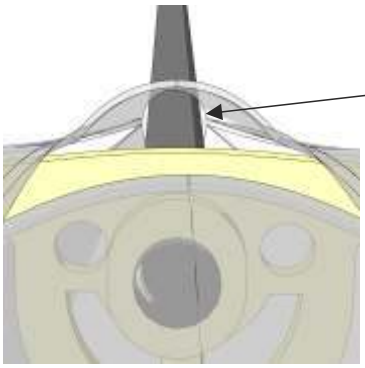


Make sure you place templates on a horizontal and even surface!

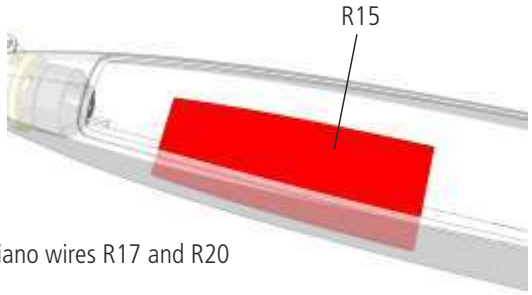


11 Slightly sand front end of carbon tube R13. Apply epoxy resin to oblong opening in former R8. Then glue plywood ring R14 to tube and former. The tube will automatically be aligned in a perfectly horizontal position by using the templates. Leave to cure.



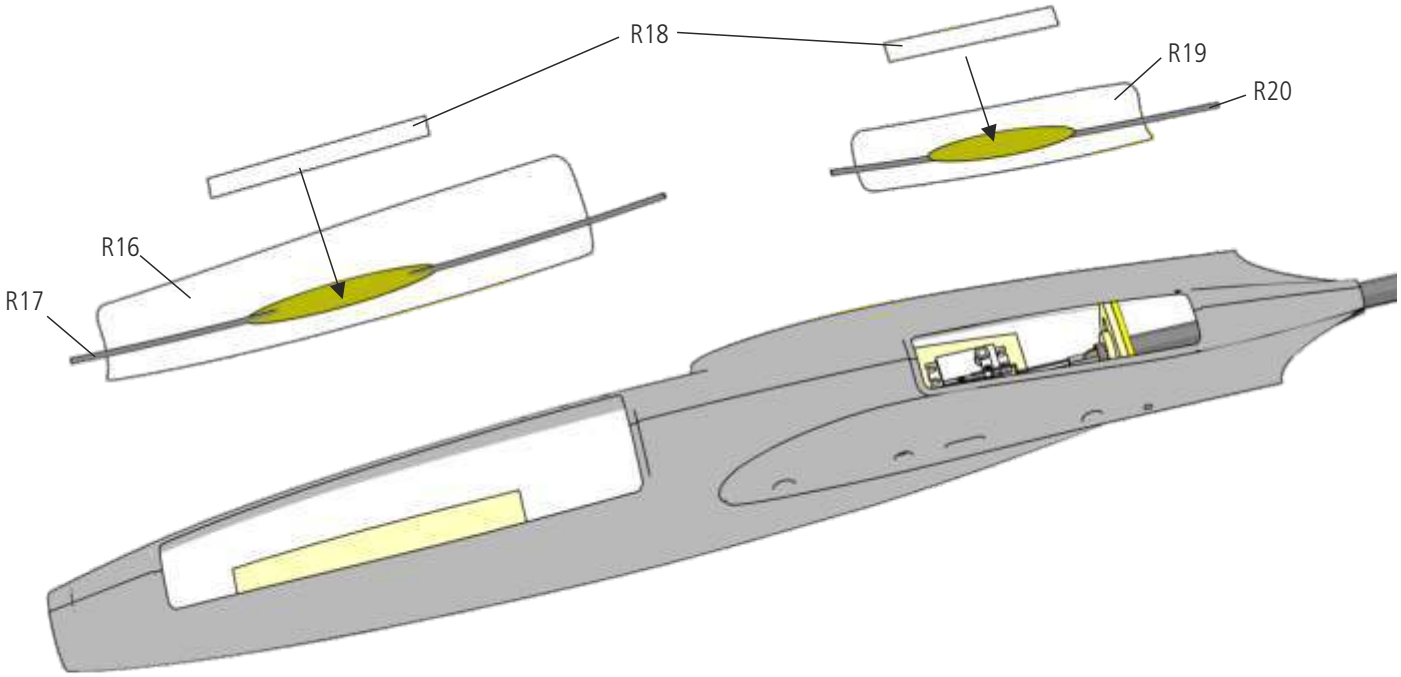


12 Bring fuselage in a vertical position and apply epoxy resin to opening in fuselage around tube.



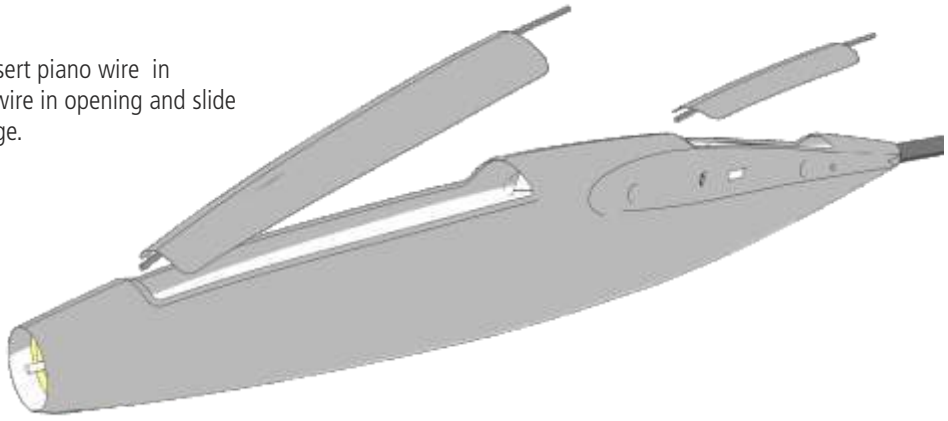
13 Sand left and right edges of battery tray R15 to fit contour of fuselage sides and glue in place with epoxy resin.

14 Slightly sand inner surface of canopy R16 and fuselage cover R19. Glue in place piano wires R17 and R20 with epoxy resin; reinforce with fabric R18. Leave to cure.



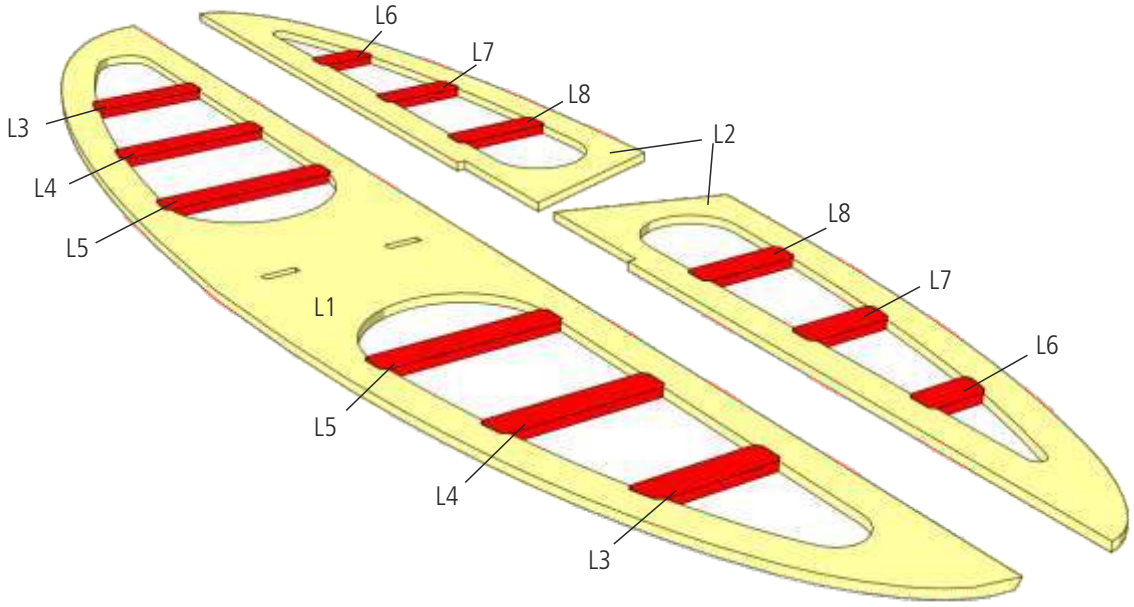
15 To place canopy and cover on fuselage, insert piano wire in opening, slide forward, insert rear end of wire in opening and slide canopy/cover in correct position on fuselage.

Paint canopy as desired.

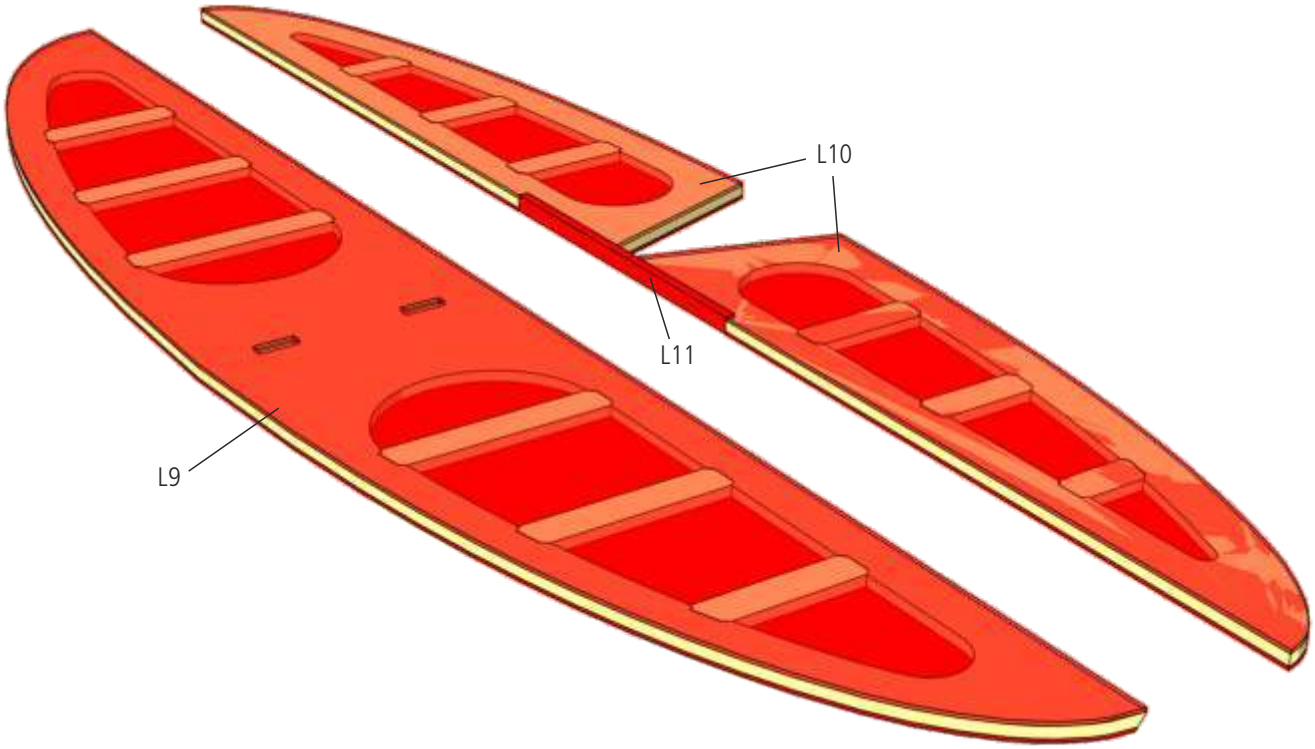


Tail Unit

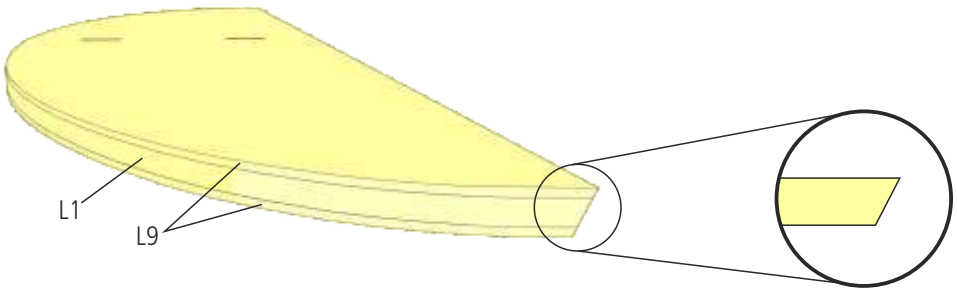
1 A flat surface or building board is required to build the tail unit. Protect building board with cling film so that tailplane parts will not stick to the surface of the building board.
Remove required parts from laser sheets and glue in place as shown.

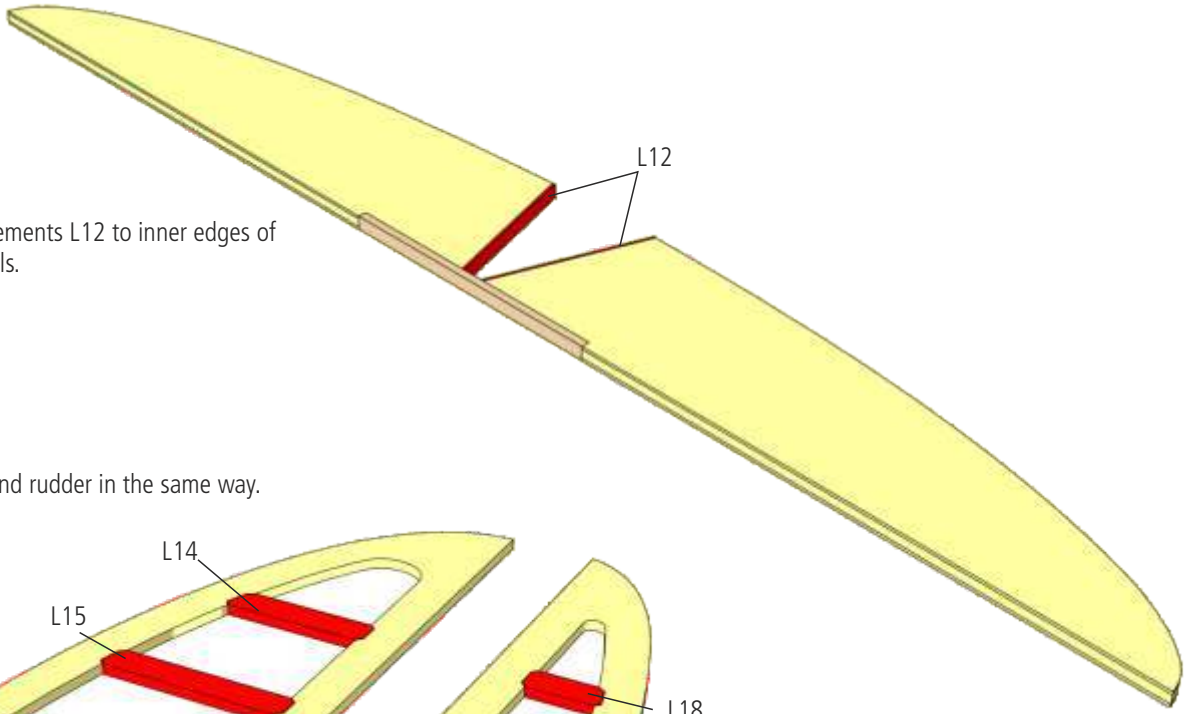


2 Use 1-mm-balsa to sheet the tail unit. Glue laser-cut sheeting material to either side of structure and weigh down evenly to avoid warping. When completey dry, round off edges with the exception of those where the elevator will be attached later on.
Glue spruce connector L11 to elevator panels.



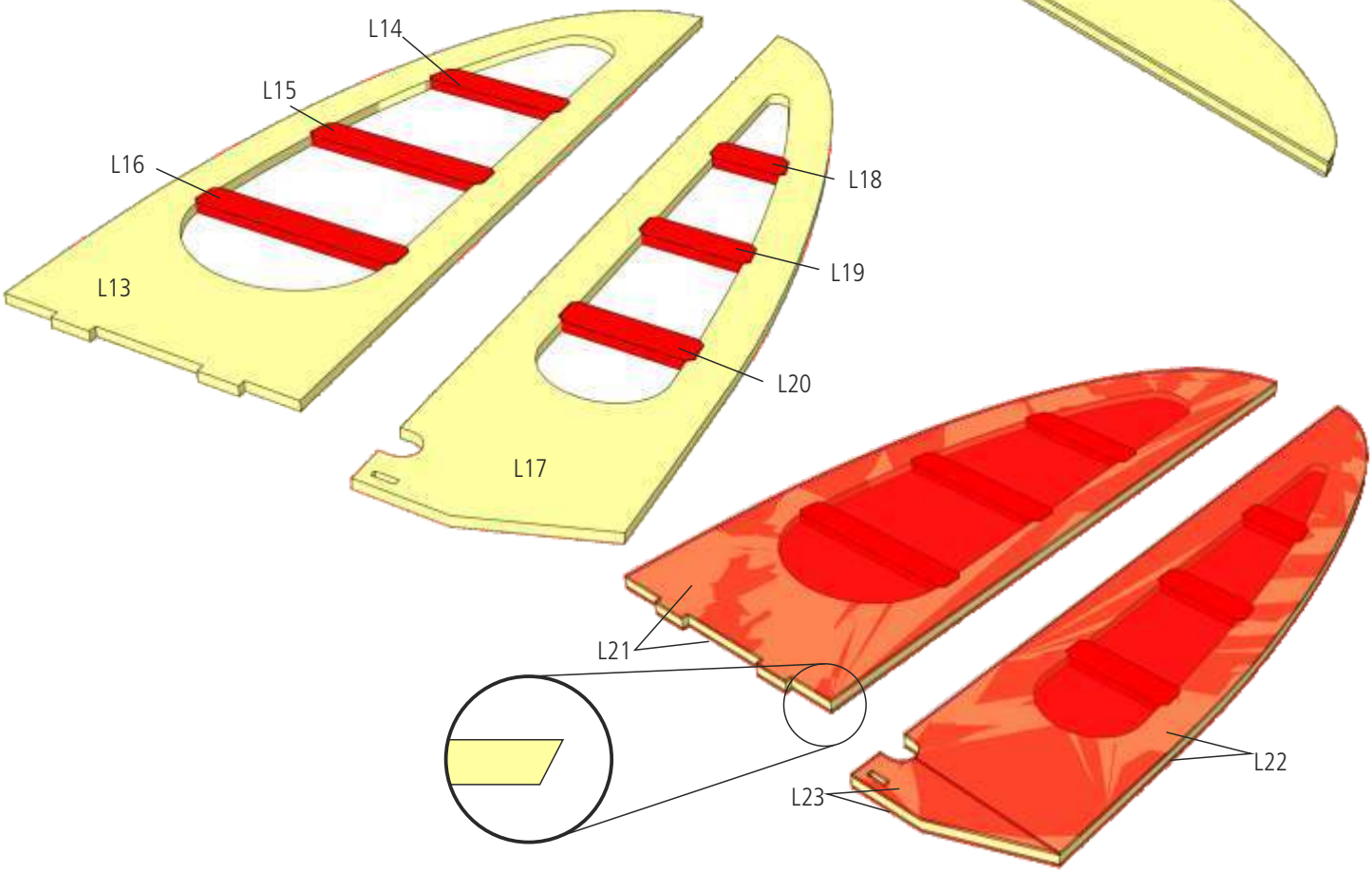
3 When sheetig material has dried completely, bevel off rear edge of tailplane to allow for sufficient control throw of elevator.

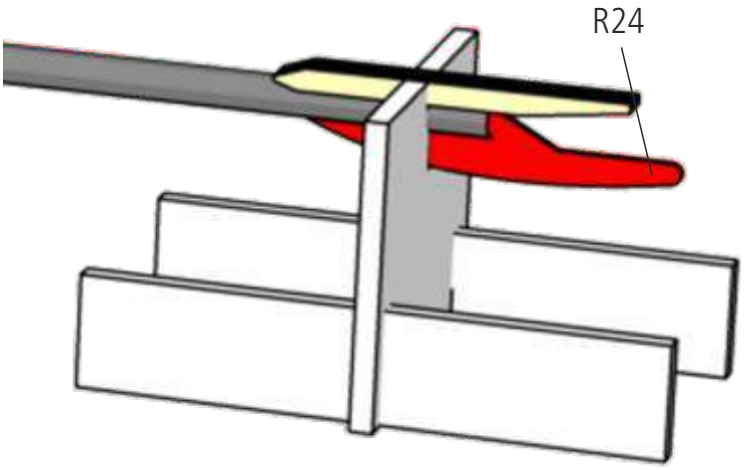




4 Glue reinforcements L12 to inner edges of elevator panels.

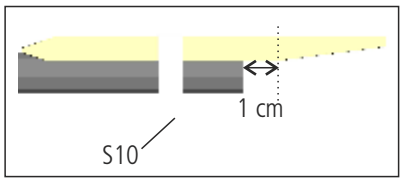
5 Build up fin and rudder in the same way.





8 Lightly sand rear end of carbon tube and glue tailplane support to carbon tube with epoxy. Use template S10 for proper alignment. See graphics for correct position of tailplane support.

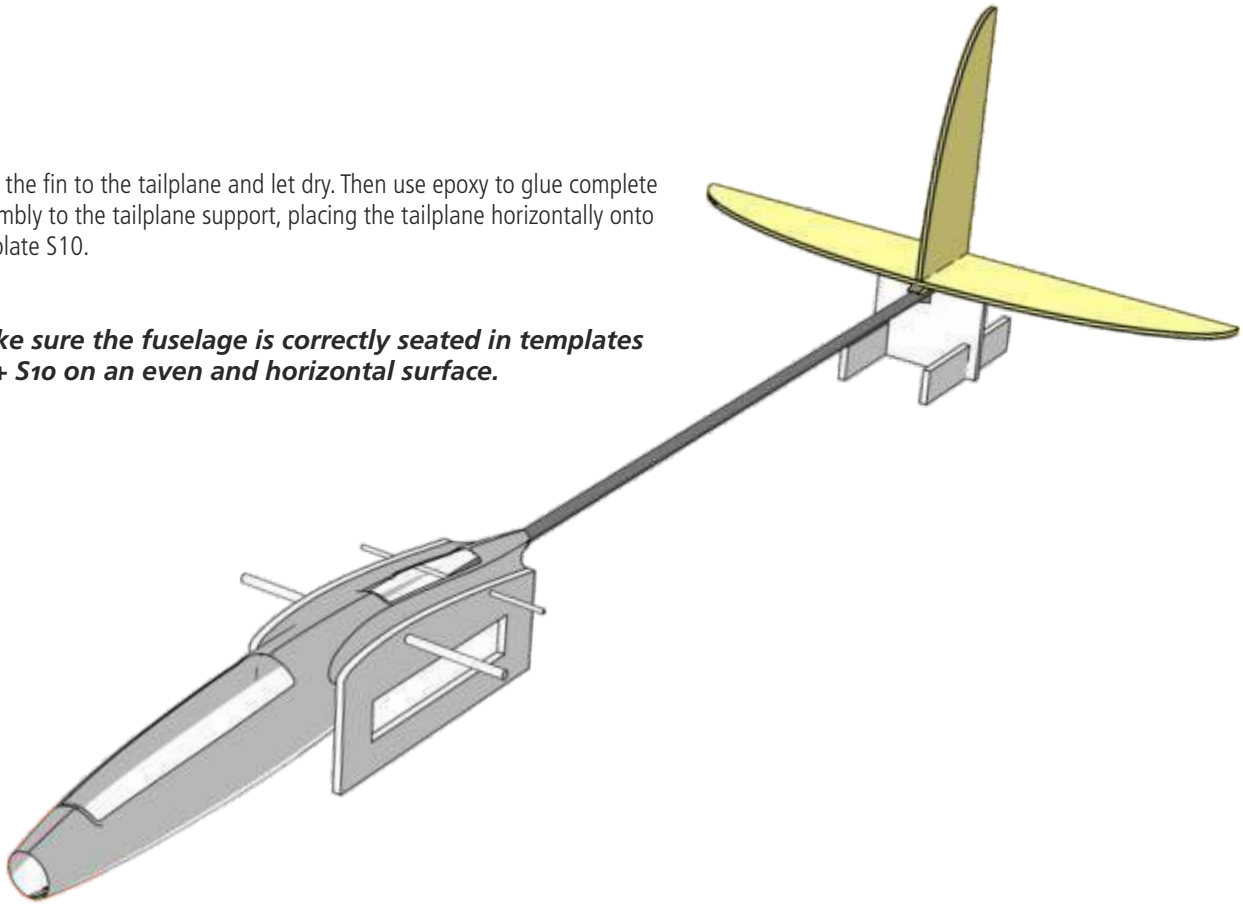
Glue tail skid R24 into carbon tube with epoxy. A slot in template S10 will accommodate the skid.



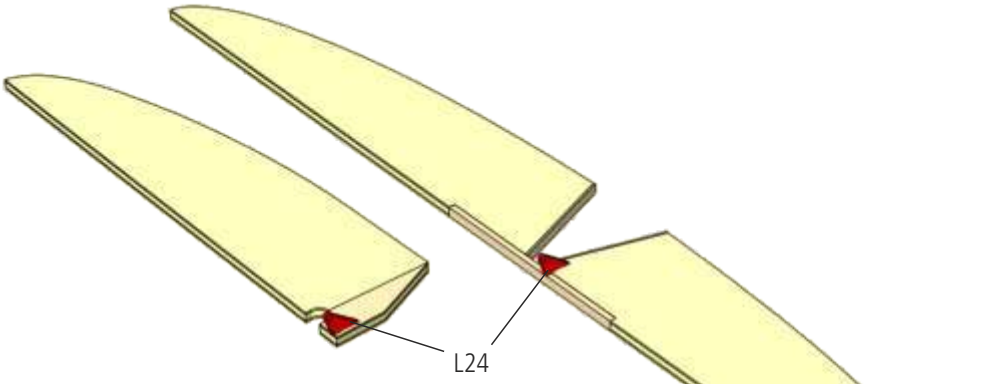
Make sure there is room for the bowden cables in the tube on either side of the tail skid.

9 Glue the fin to the tailplane and let dry. Then use epoxy to glue complete assembly to the tailplane support, placing the tailplane horizontally onto template S10.

Make sure the fuselage is correctly seated in templates S9 + S10 on an even and horizontal surface.

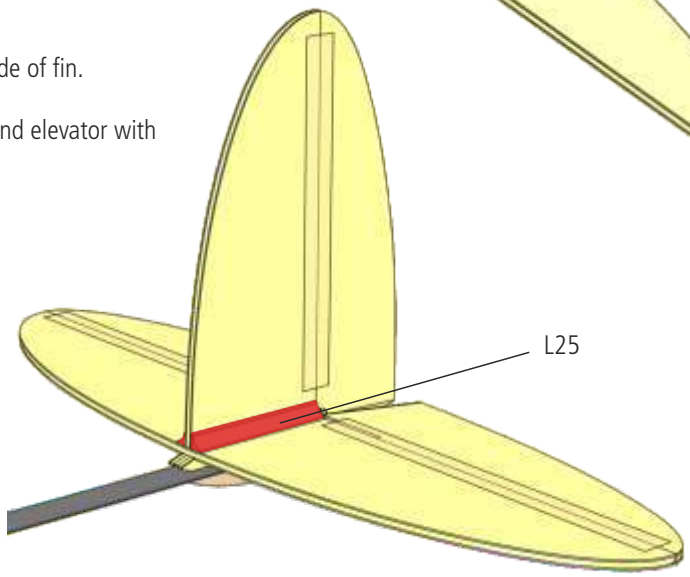


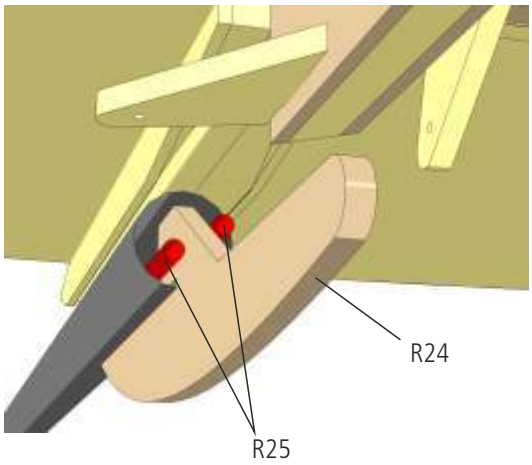
10 Glue control horns L24 into rudder and elevator.



10 Rounf off front of triangular stock L25 and glue to either side of fin.

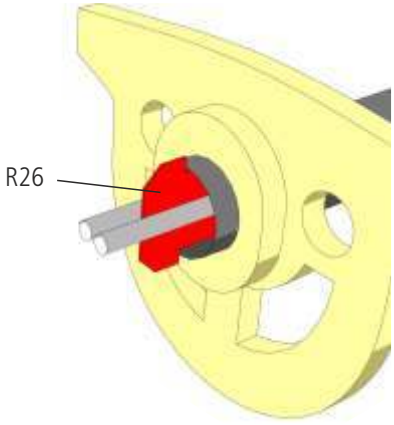
Apply covering material to the tail unit and attach rudder and elevator with hinge tape or equivalent.





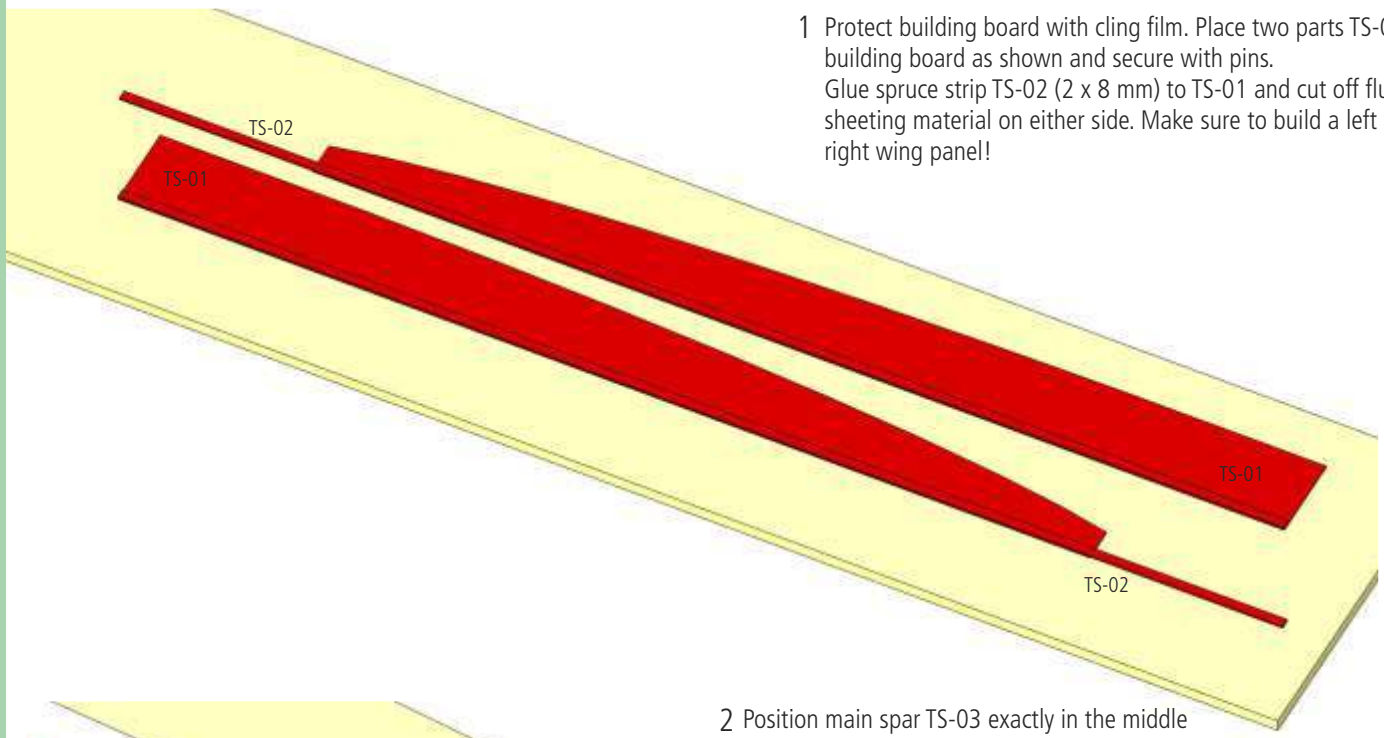
11 Slide bowden cables R25 into carbon tube on either side of tail skid R24. Glue bowden cable outers to skid with a drop of epoxy.

12 Install and glue part R26 to fuselage end of carbon tube between bowden cable outers R25. Glue cable outers to R26 with a drop of epoxy.

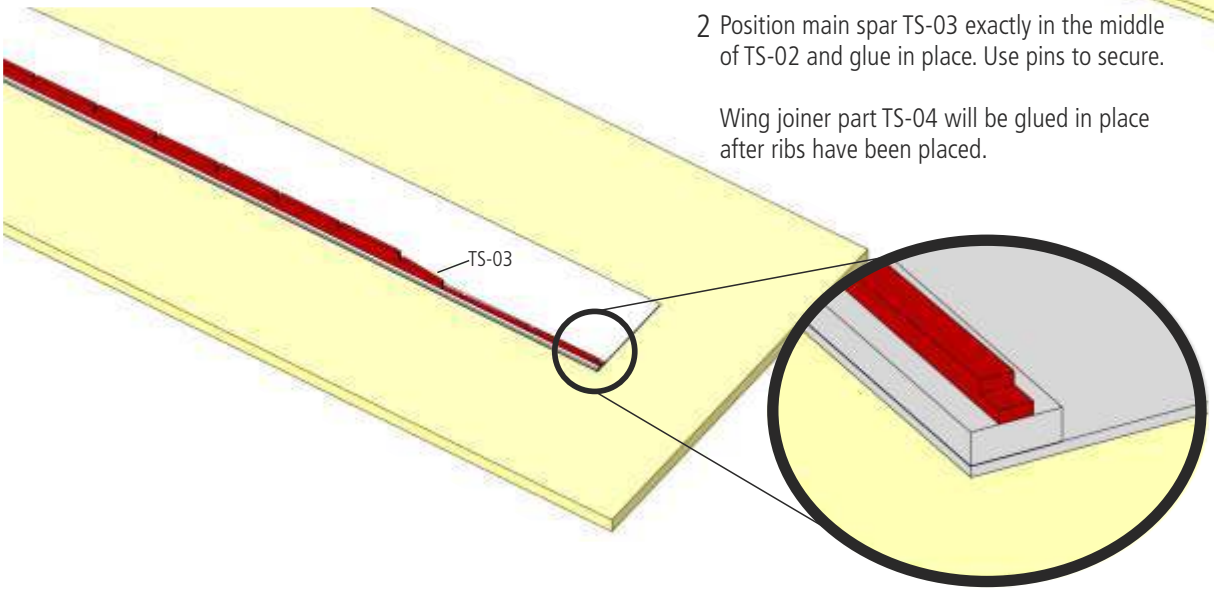


Section IV - Triple speed Wing

Attention: Make sure you build a left and a right wing panel. In this section construction of one wing panel is described. Build the opposite wing panel accordingly.



1 Protect building board with cling film. Place two parts TS-01 on building board as shown and secure with pins.
Glue spruce strip TS-02 (2 x 8 mm) to TS-01 and cut off flush with sheeting material on either side. Make sure to build a left and a right wing panel!

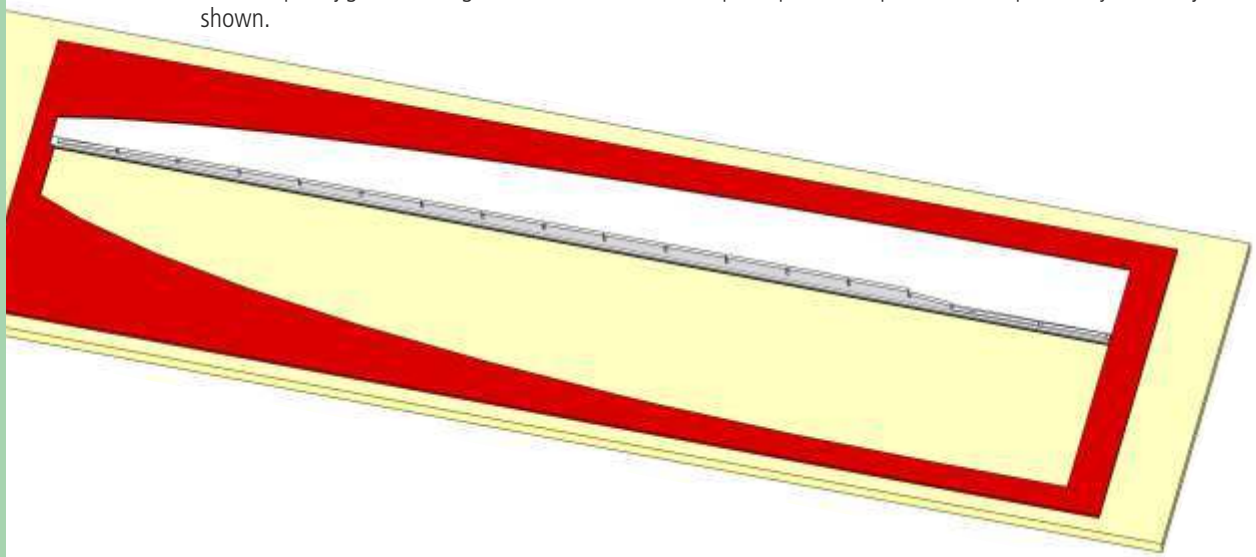


2 Position main spar TS-03 exactly in the middle of TS-02 and glue in place. Use pins to secure.

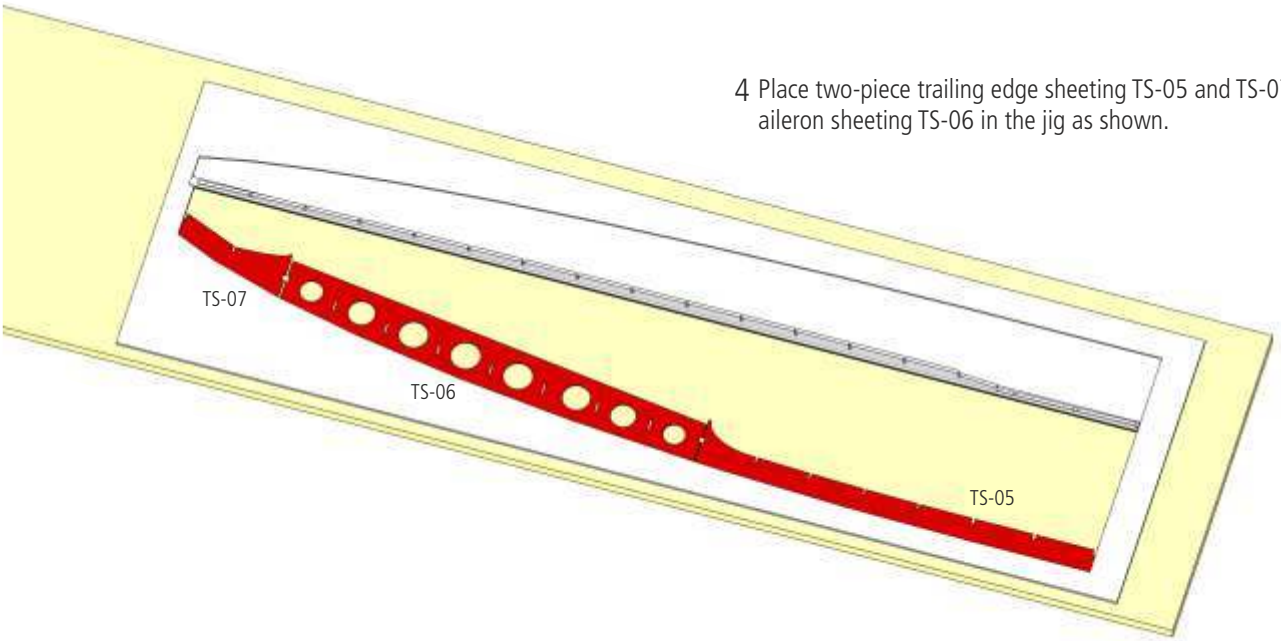
Wing joiner part TS-04 will be glued in place after ribs have been placed.

Enlarged view of main wing spar, glued on place on TS-02.

3 For the next building steps place the wing panel in the Depron building jig as shown to guarantee correct alignment of parts. Place Depron jig on building board and secure with tape or pins. Then place the components you have just built in the jig as shown.

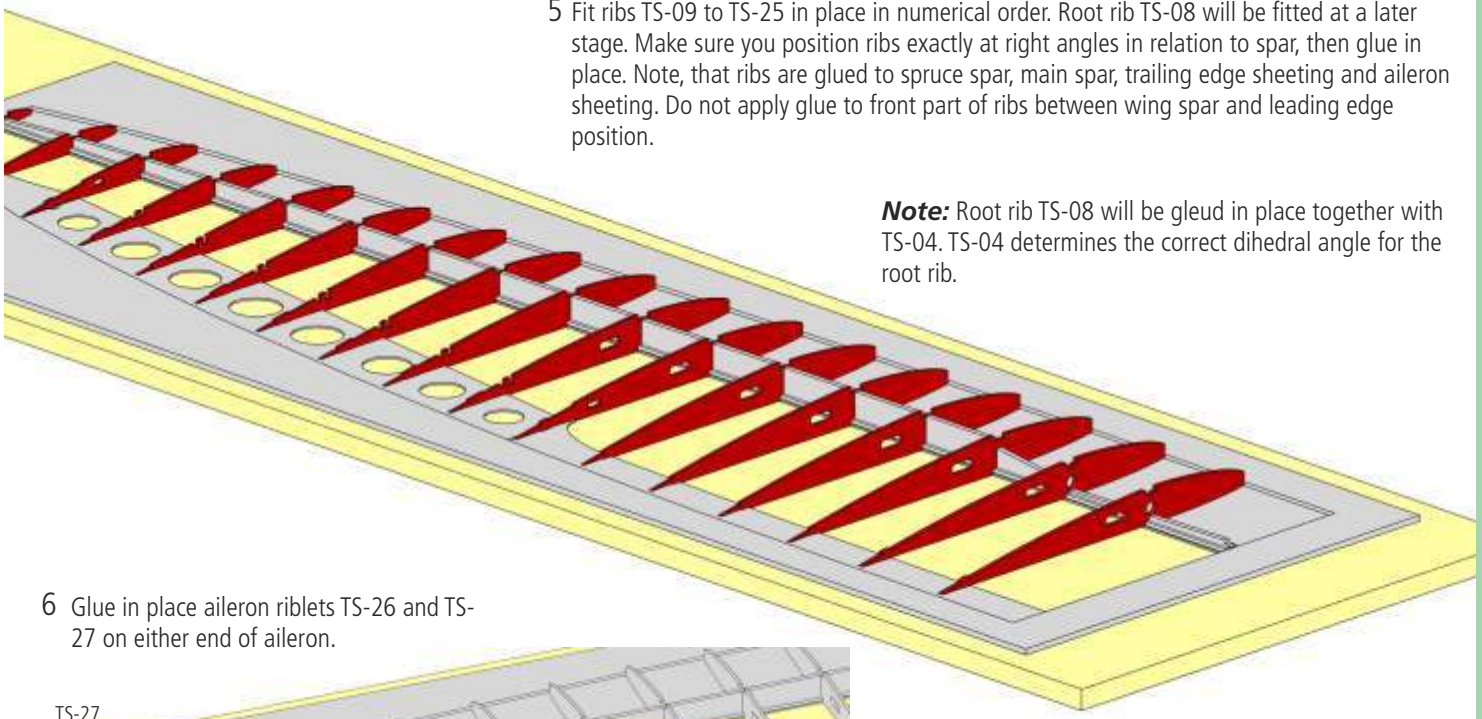


4 Place two-piece trailing edge sheeting TS-05 and TS-07 as well as aileron sheeting TS-06 in the jig as shown.

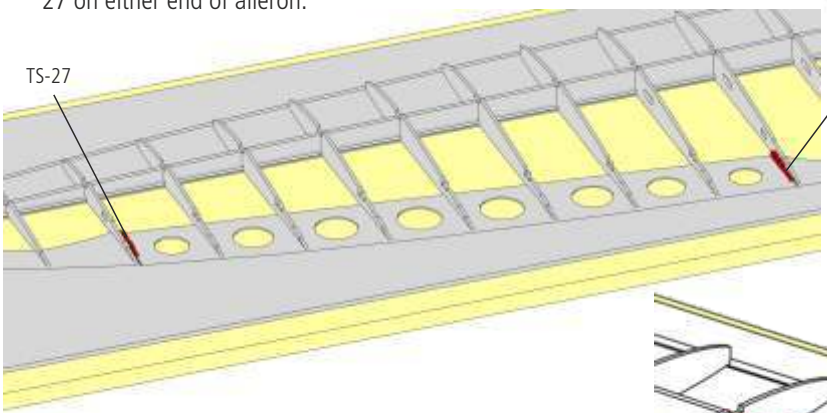


5 Fit ribs TS-09 to TS-25 in place in numerical order. Root rib TS-08 will be fitted at a later stage. Make sure you position ribs exactly at right angles in relation to spar, then glue in place. Note, that ribs are glued to spruce spar, main spar, trailing edge sheeting and aileron sheeting. Do not apply glue to front part of ribs between wing spar and leading edge position.

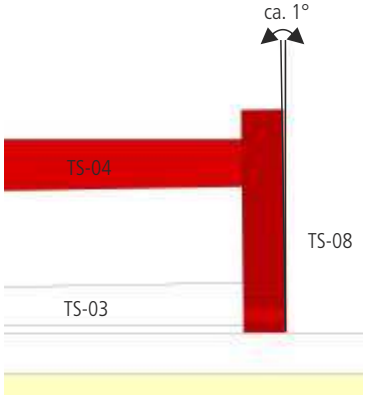
Note: Root rib TS-08 will be gleud in place together with TS-04. TS-04 determines the correct dihedral angle for the root rib.

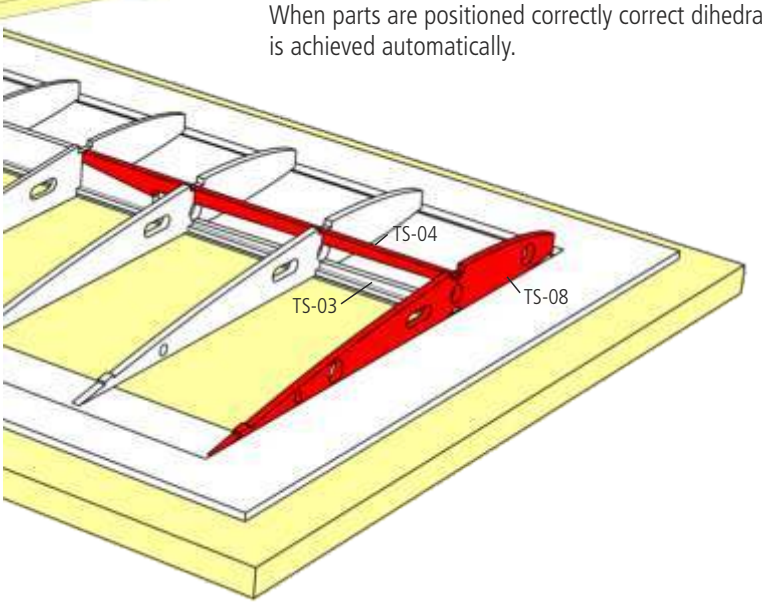


6 Glue in place aileron riblets TS-26 and TS-27 on either end of aileron.

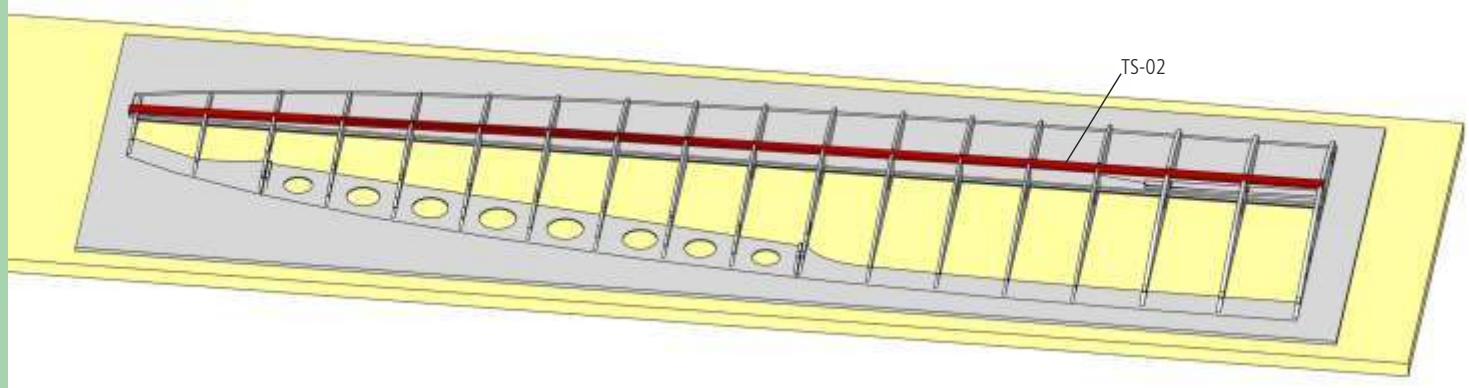


7 Glue in place TS-04 together with rib TS-08. Make sure TS-08 is slightly angled in accordance with dihedral of wing.
When parts are positioned correctly correct dihedral is achieved automatically.

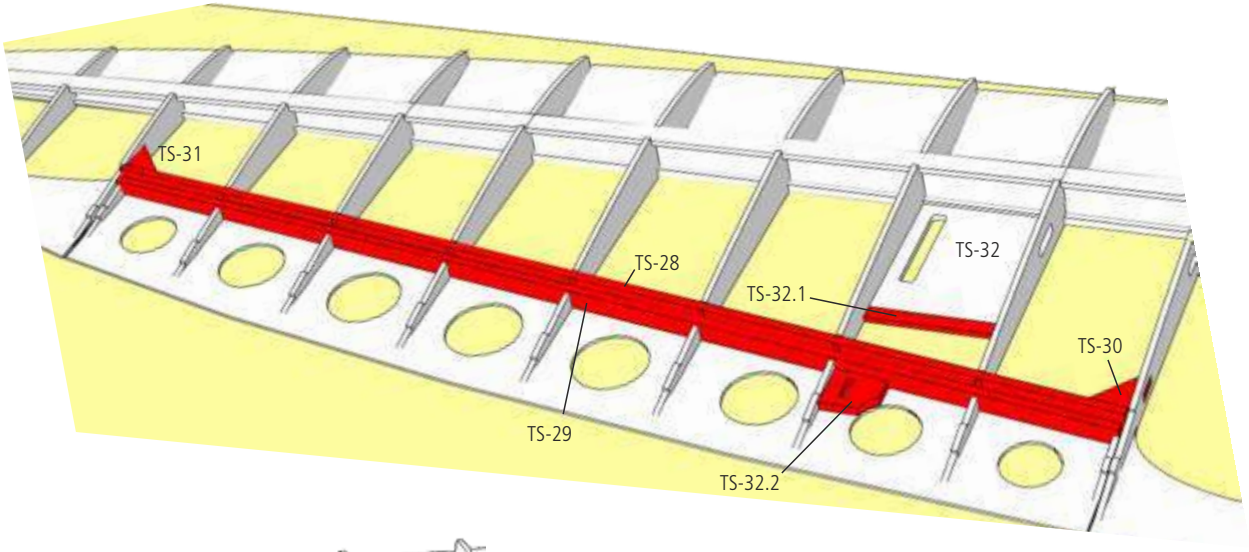


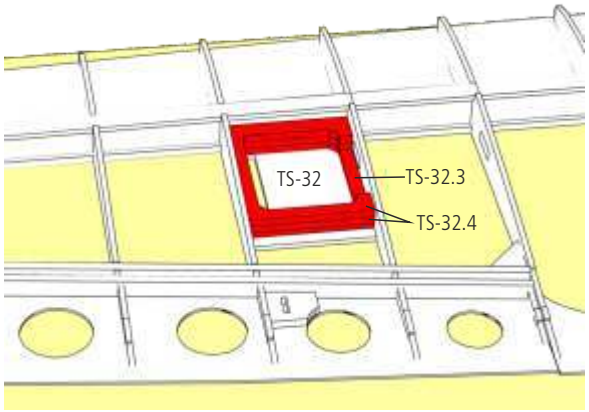


8 Cut to length upper spruce spar TS-02 (2 x 8 mm) and glue to ribs and main spar. Use suitable weigths to hold spar in place and leave to dry.



9 Glue in place aileron spar TS-28, aileron leading edge TS-29 as well as gussets TS-30 and TS-31. Insert servo tray TS-32 between ribs TS-16 and TS-17, flush with underside of ribs and against wing spar. Do not glue!
Glue end stop TS-32.1 to both ribs and glue reinforcement TS-32.2 in place on aileron.



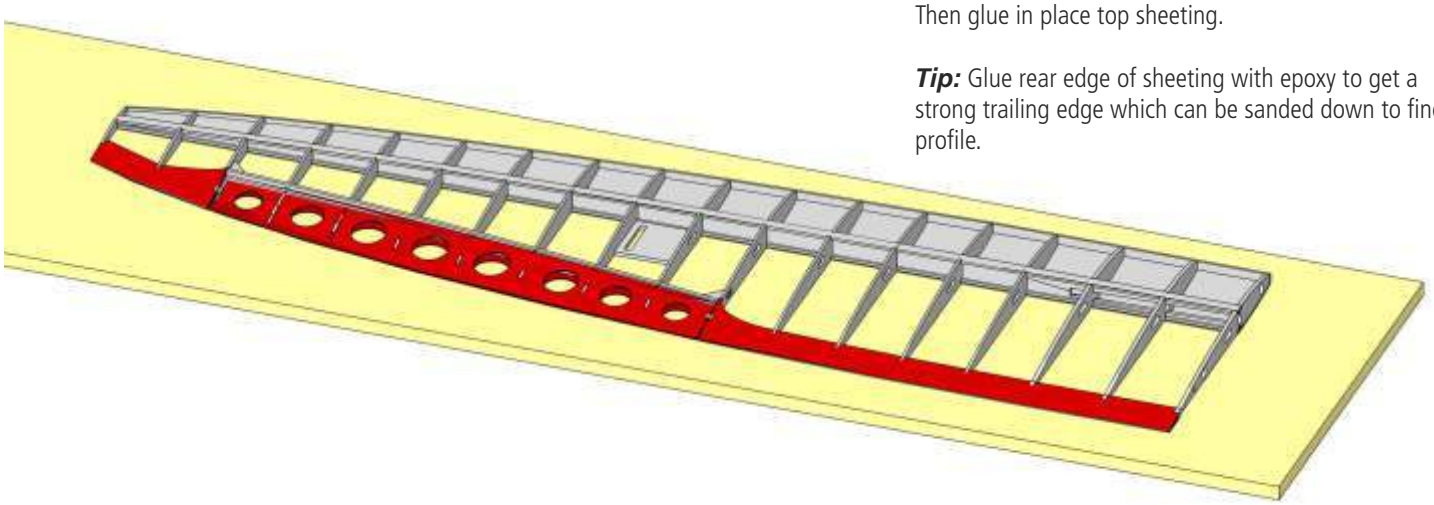


Glue together servo frames TS-32.3 and TS-32.4 as shown, and glue to spar and ribs. Make sure that hole for servo lead is not obstructed.

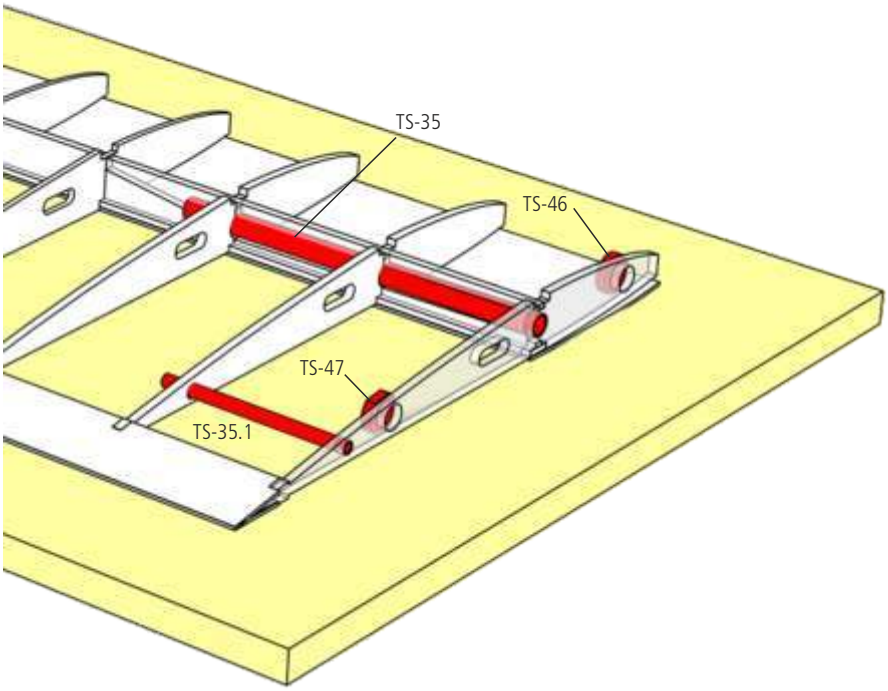
Attention: Do not glue frame to servo tray TS-32! TS-32 is merely used to position frame correctly.

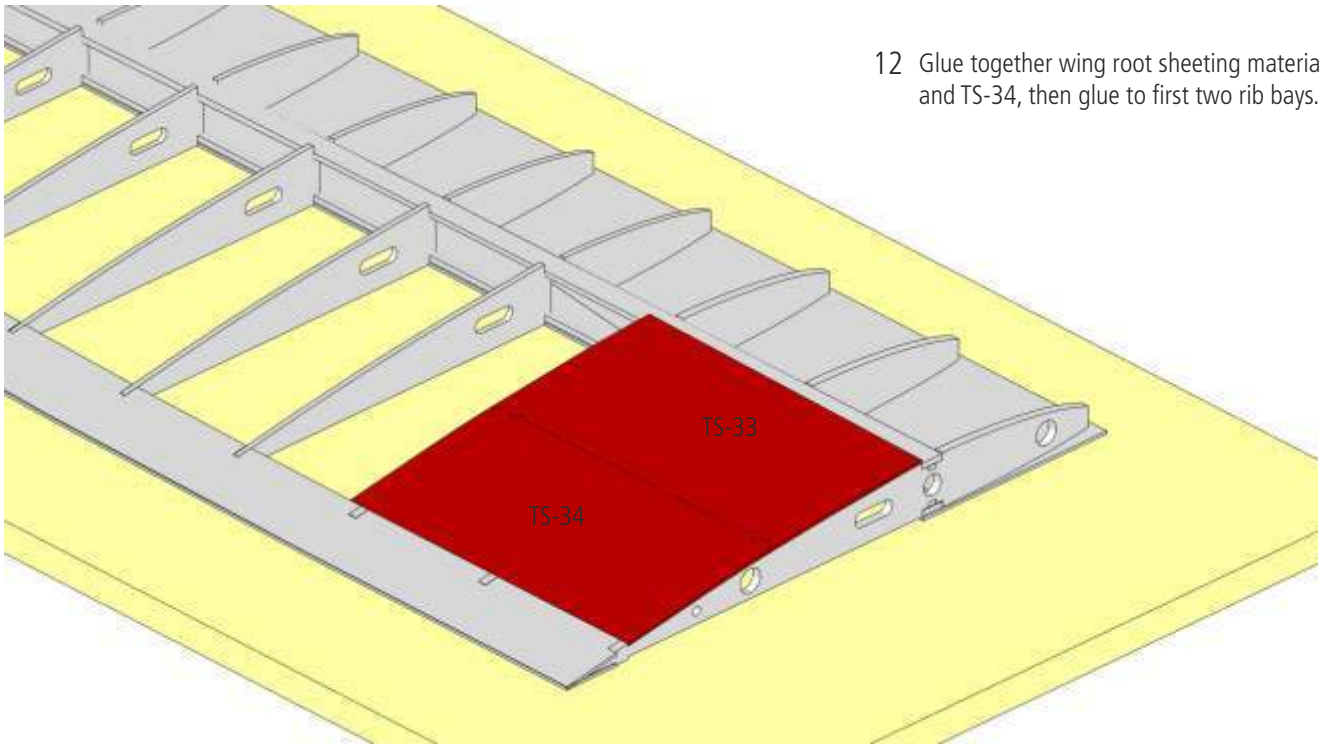
10 Slightly bevel the last 3 mm of trailing edge and aileron sheeting to establish a good contact surface for gluing. Then glue in place top sheeting.

Tip: Glue rear edge of sheeting with epoxy to get a strong trailing edge which can be sanded down to fine profile.



11 Carefully sand surface of wing joiner sleeve TS-35 and insert in wing root. Insert wing joiner R-40 into sleeve and make sure it moves freely and without binding. Then remove R-40 and glue sleeve in place with epoxy mixed with glass fibres. Repeat for TS-35.1.
Align magnet supports TS-46 and TS-47 with corresponding holes in rib TS-08, then glue to the inside of rib TS-08.

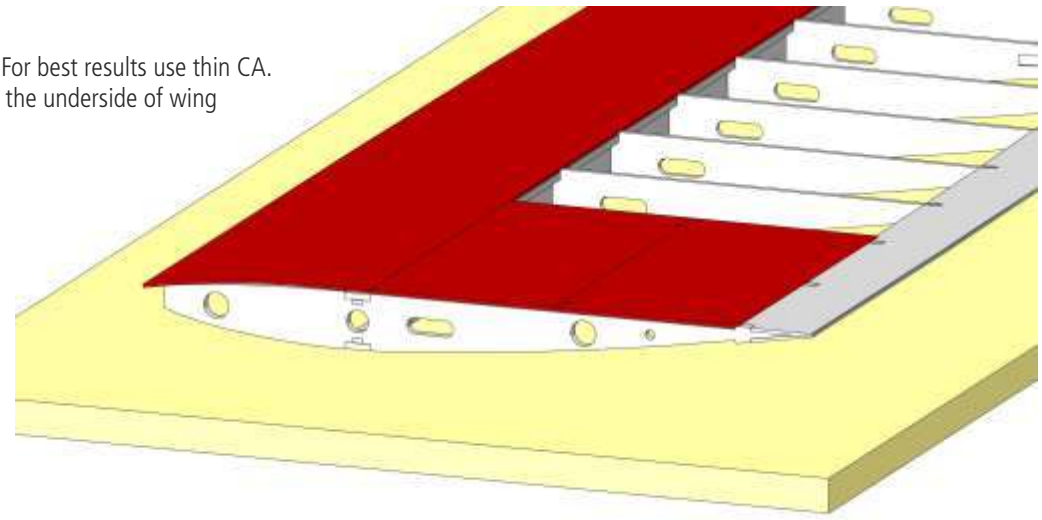




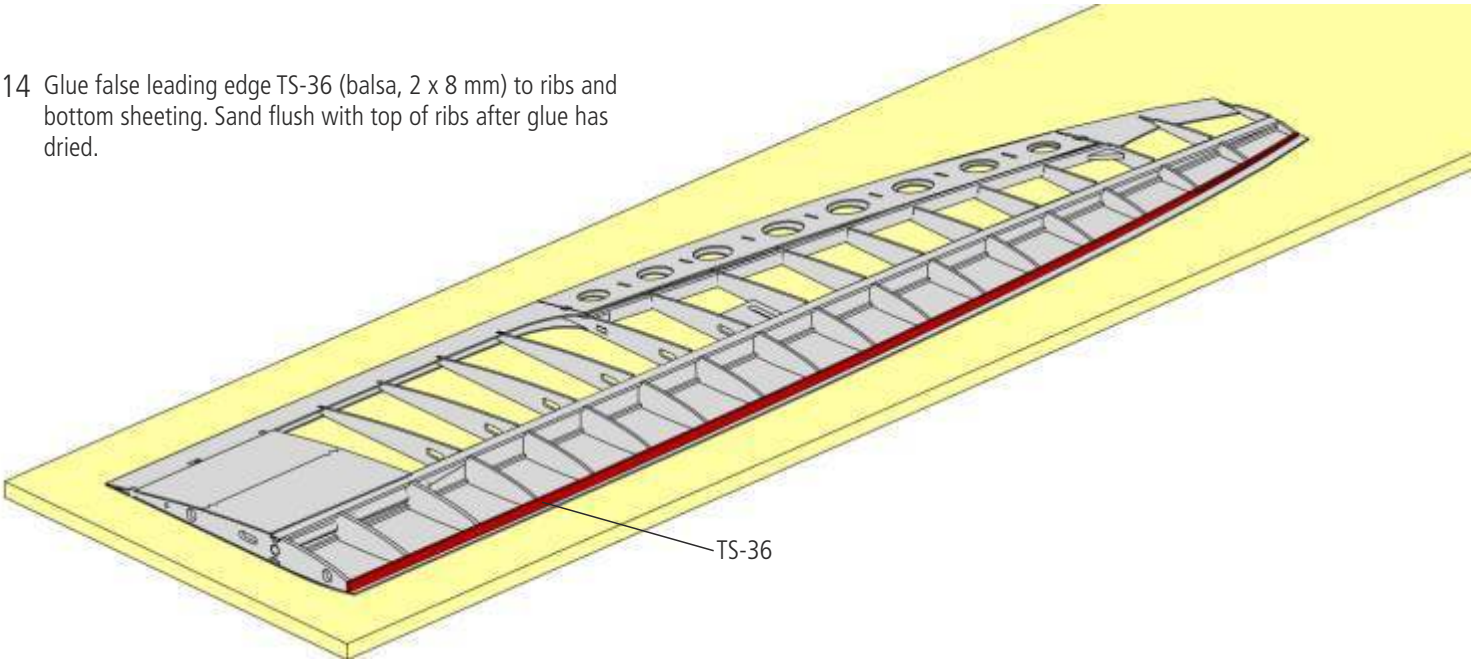
12 Glue together wing root sheeting material TS-33 and TS-34, then glue to first two rib bays.

13 Remove wing from building board. Please handle with care and always place on an even surface, as the wing has no tortional stability at this time.

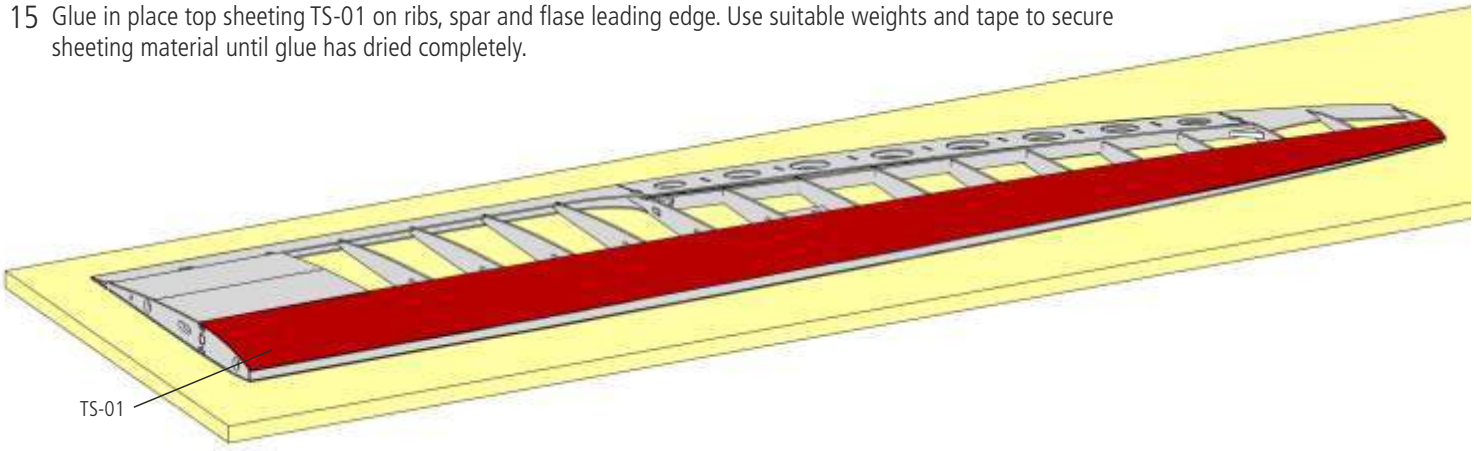
Glue bottom sheeting material to ribs. For best results use thin CA. Also glue in place sheeting material to the underside of wing root.



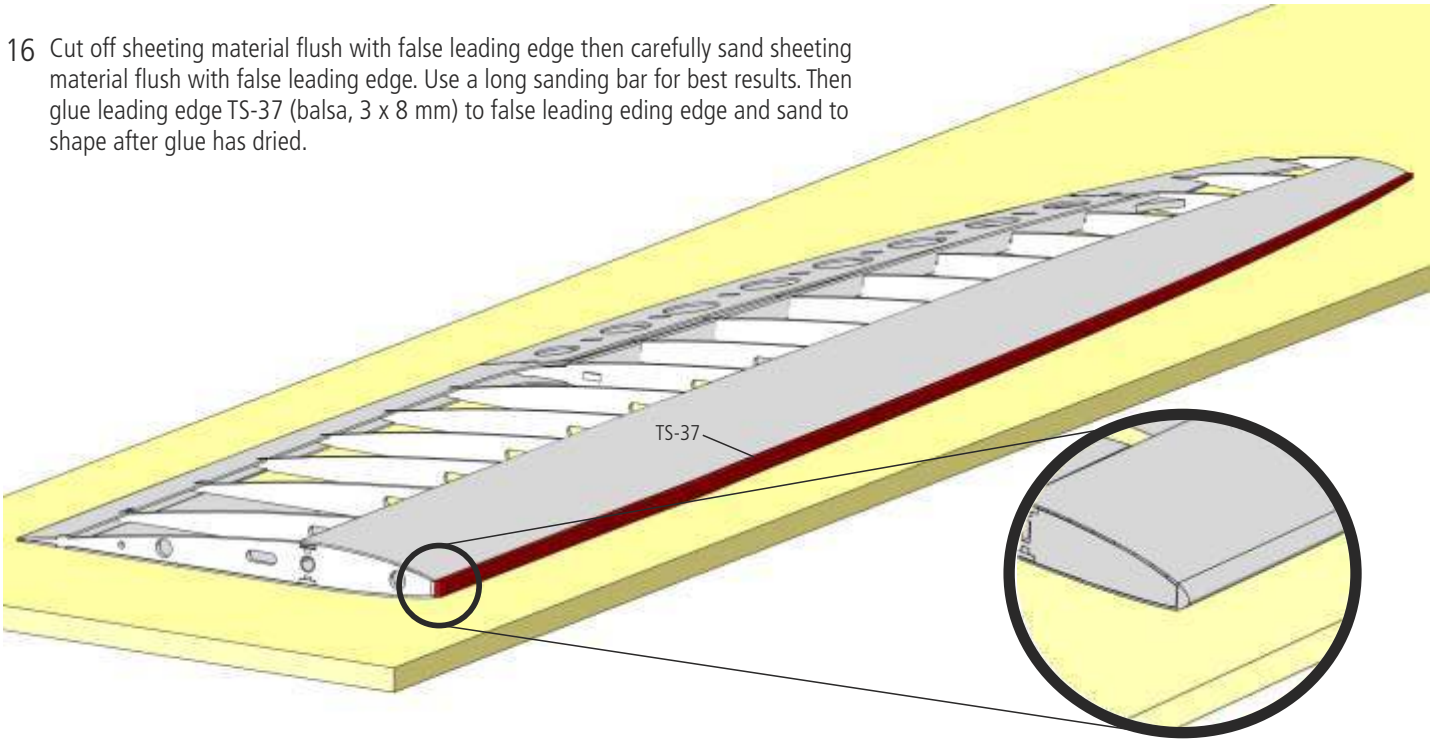
14 Glue false leading edge TS-36 (balsa, 2 x 8 mm) to ribs and bottom sheeting. Sand flush with top of ribs after glue has dried.



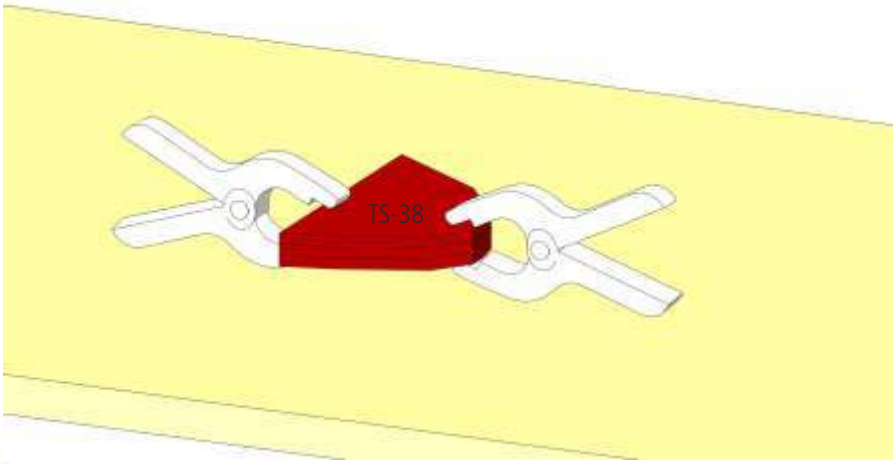
15 Glue in place top sheeting TS-01 on ribs, spar and flase leading edge. Use suitable weights and tape to secure sheeting material until glue has dried completely.

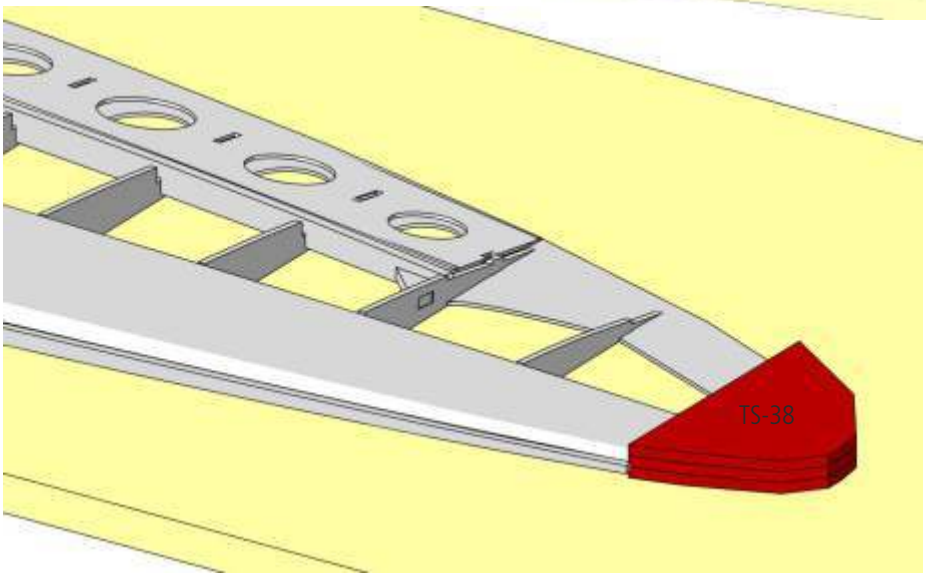


16 Cut off sheeting material flush with false leading edge then carefully sand sheeting material flush with false leading edge. Use a long sanding bar for best results. Then glue leading edge TS-37 (balsa, 3 x 8 mm) to false leading eding edge and sand to shape after glue has dried.



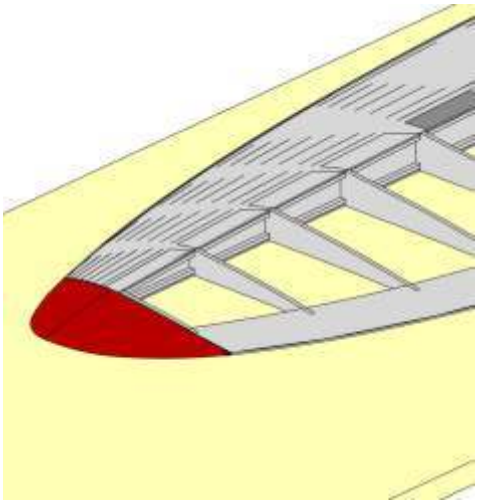
17 Make up wing tips from 3 parts TS-38 and secure with clamps until dry.

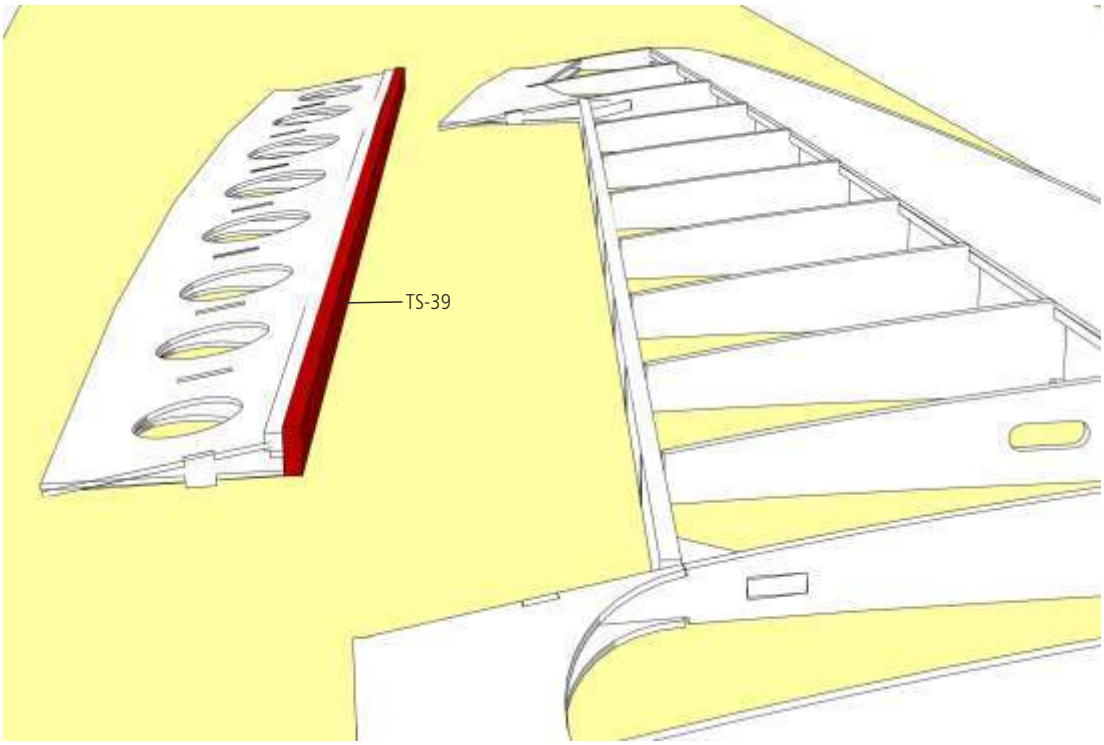




18 Sand sheeting material and spars flush with tip rib TS-25 and glue in place wing tip TS-38.

Then sand wing tip to fit planform of wing and shape of wing section.





19 Use a razor saw to cut out the aileron and carefully sand sheeting material flush with riblets on either side. Glue TS-39 to front of aileron and bevel off to allow for sufficient control throw. After covering attach aileron to wing with tape.

Tip: If you do not want to use tape, you can bevel off top and bottom of TS-39 and use small hinges to attach the aileron to the wing.



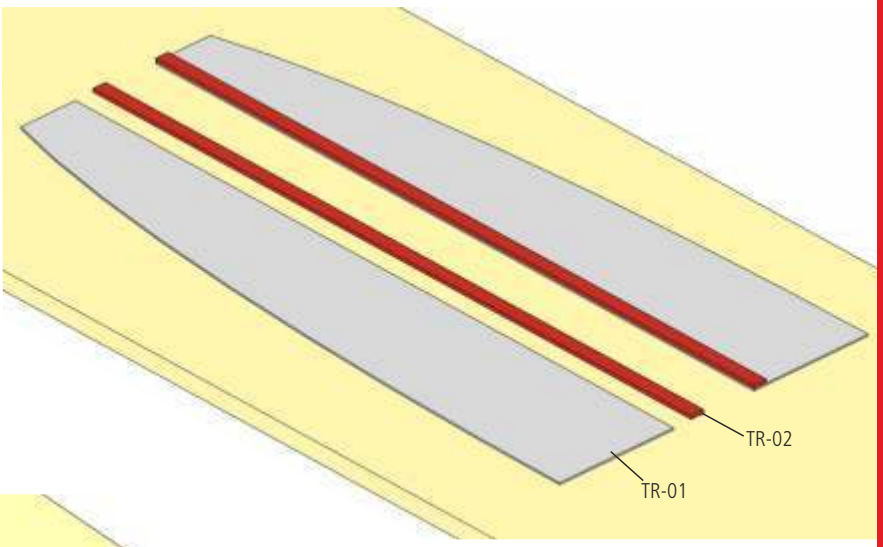
TRIPLE SPEED

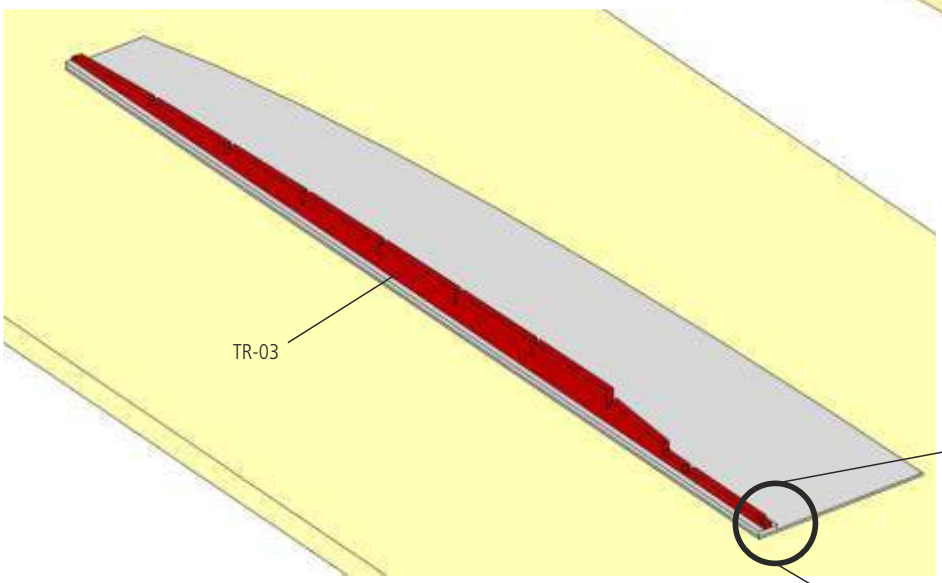


Section V - Triple R.E.S. Wing

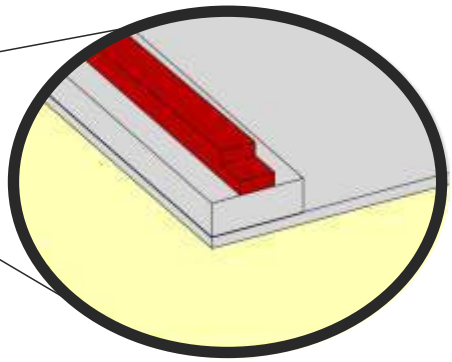
Attention: Make sure you build a left and a right wing panel. In this section construction of one wing panel is described. Build the opposite wing panel accordingly.

1 Protect building board with cling film. Place two parts TR-01 on building board as shown and secure with pins.
Glue spruce strip TR-02 (2 x 8 mm) to TR-01 and cut off flush with sheeting material on either side. Make sure to build a left and a right wing panel!

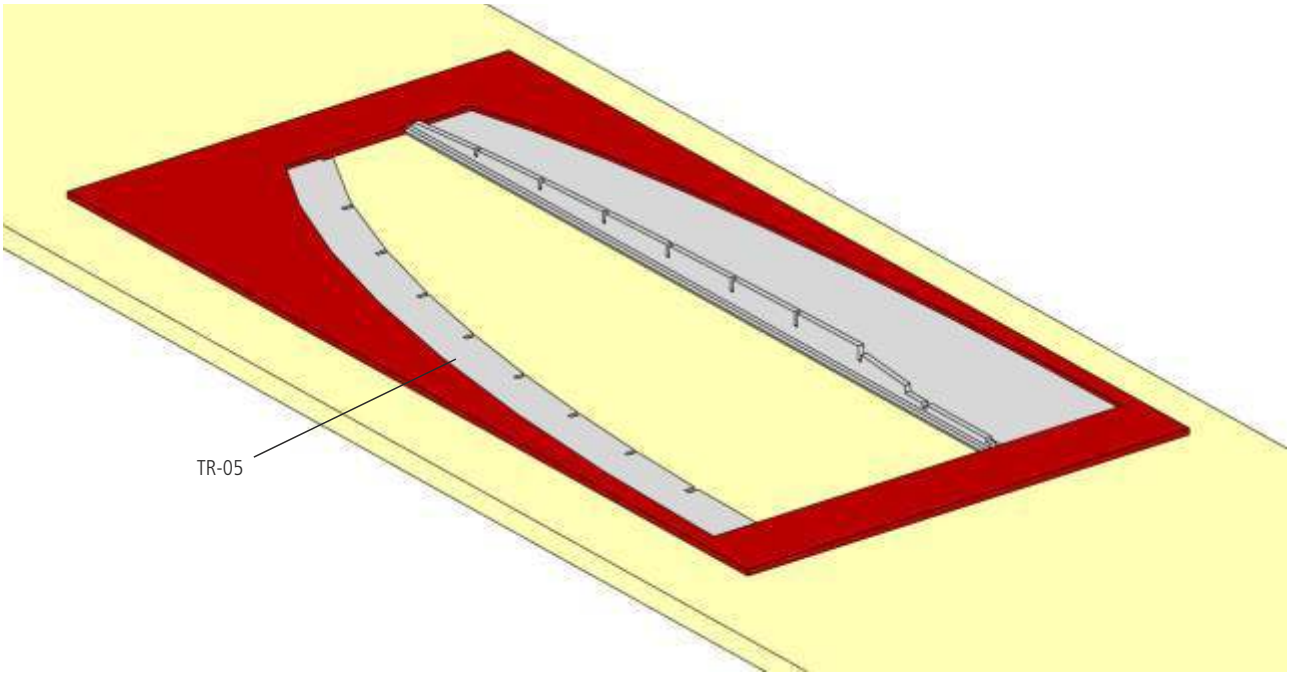




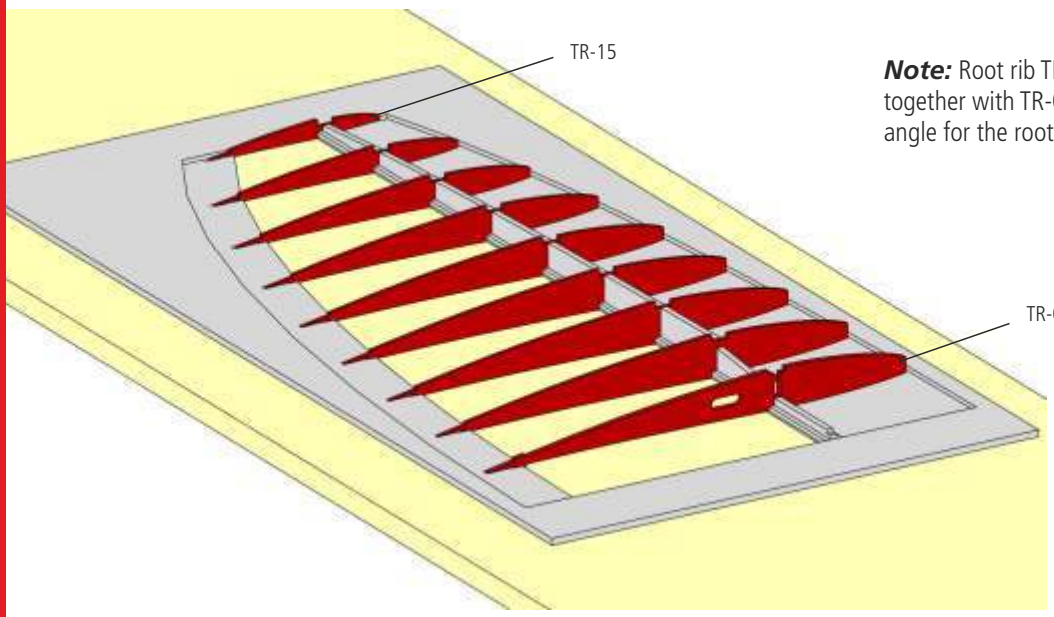
2 Position main spar TR-03 exactly in the middle of TR-02 and glue in place. Secure with pins until dry.
Wing joiner part TR-04 will be glued in place after ribs have been placed.



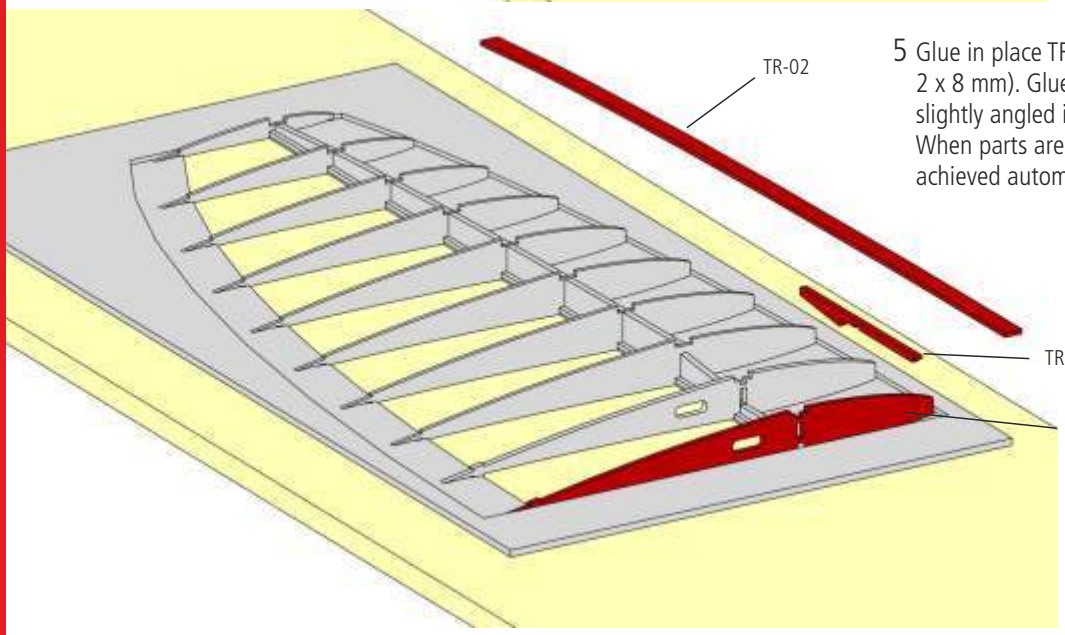
3 For the next building steps place the wing panel in the Depron building jig as shown to guarantee correct alignment of parts.
Place Depron jig on building board and secure with tape or pins. Then place the components you have just built as well as trailong edge sheeting TR-05 in the jig as shown.



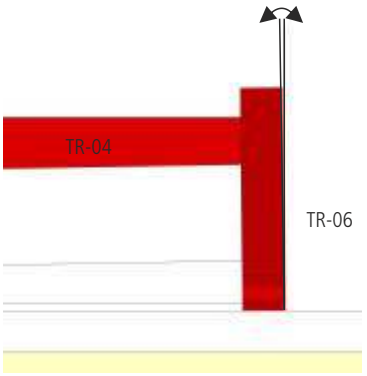
4 Fit ribs TR-07 to TR-15 in place in numerical order. Notches in Spar and trailing edge help to position the ribs correctly. Note, that ribs are glued to spruce spar, main spar and trailing edge sheeting TR-05. Do not apply glue to front part of ribs between wing spar and leading edge position.



Note: Root rib TR-06 will be fitted at a later stage together with TR-04. TR-04 determines the correct dihedral angle for the root rib.

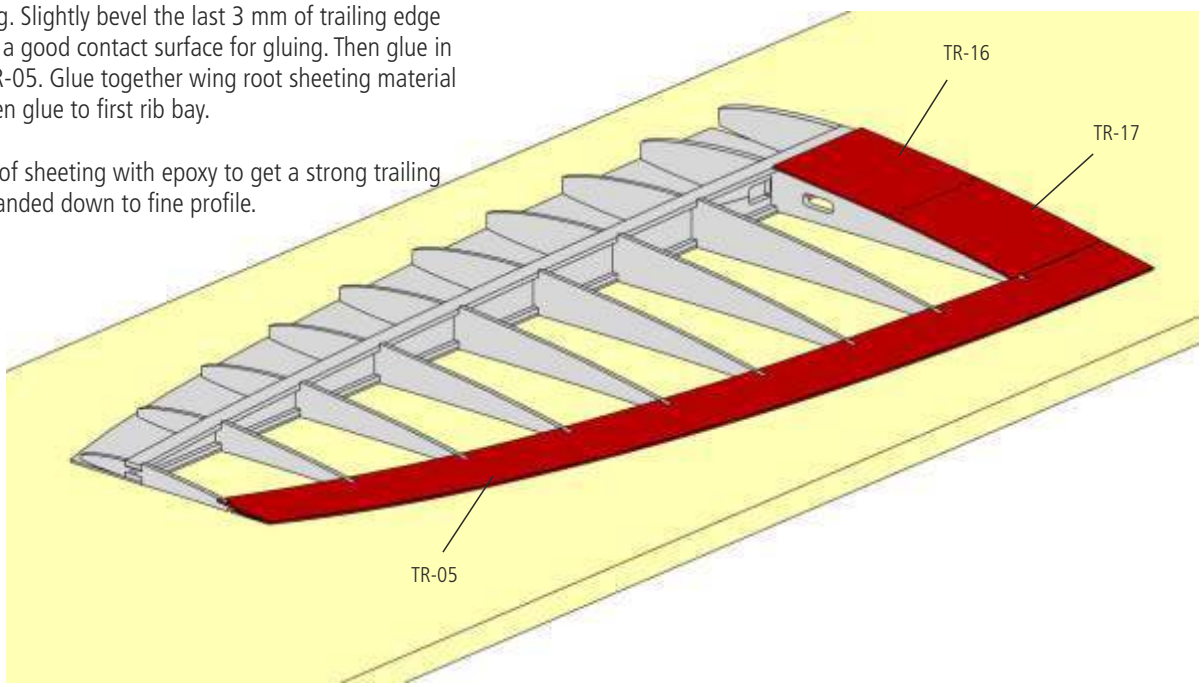


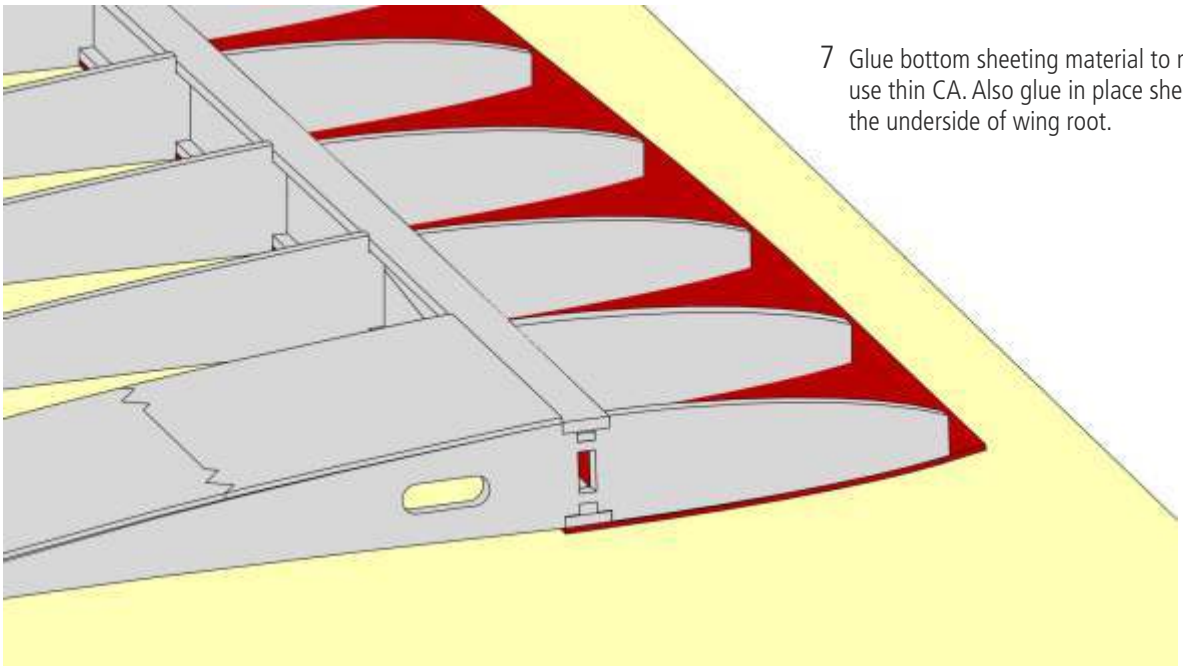
5 Glue in place TR-04 together with top spar TR-02 (spruce, 2 x 8 mm). Glue in place rib TR-06 and make sure it is slightly angled in accordance with dihedral of wing. When parts are positioned correctly correct dihedral is achieved automatically.



6 Remove wing from jig. Slightly bevel the last 3 mm of trailing edge sheeting to establish a good contact surface for gluing. Then glue in place top sheeting TR-05. Glue together wing root sheeting material TR-16 and TR-17, then glue to first rib bay.

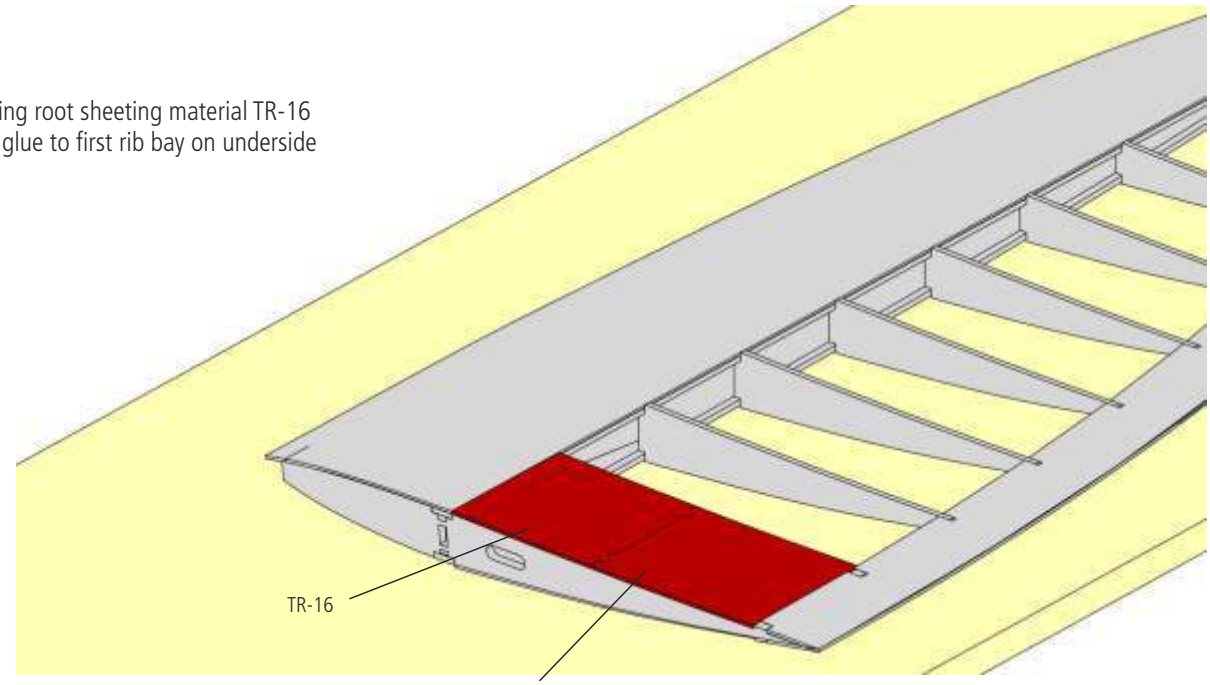
Tip: Glue rear edge of sheeting with epoxy to get a strong trailing edge which can be sanded down to fine profile.

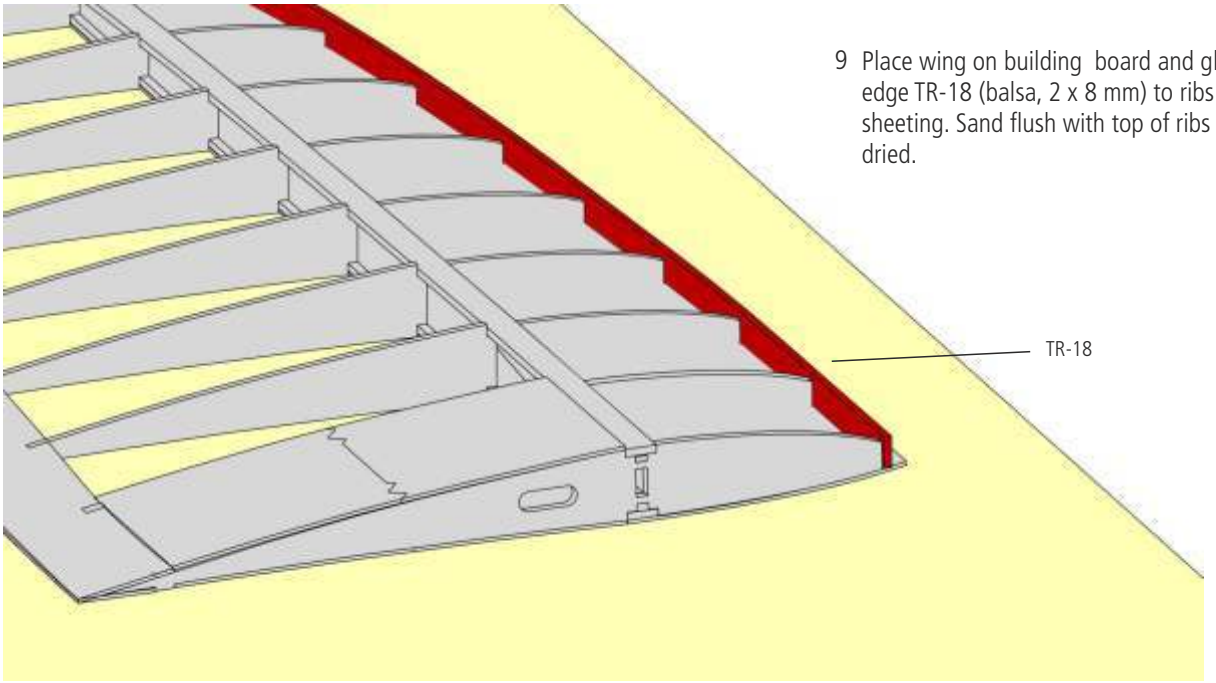




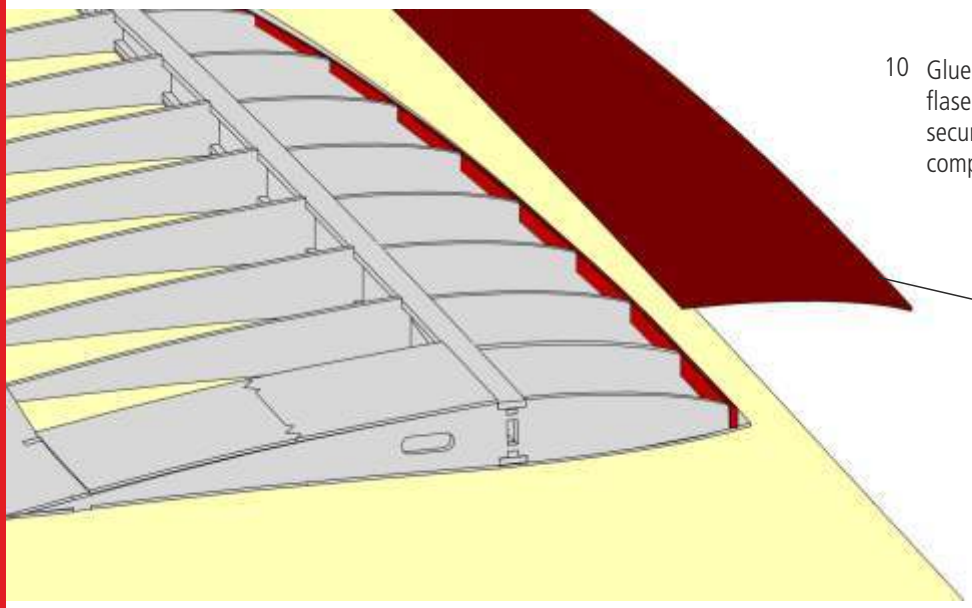
7 Glue bottom sheeting material to ribs. For best results use thin CA. Also glue in place sheeting material to the underside of wing root.

8 Glue together wing root sheeting material TR-16 and TR-17, then glue to first rib bay on underside of wing.

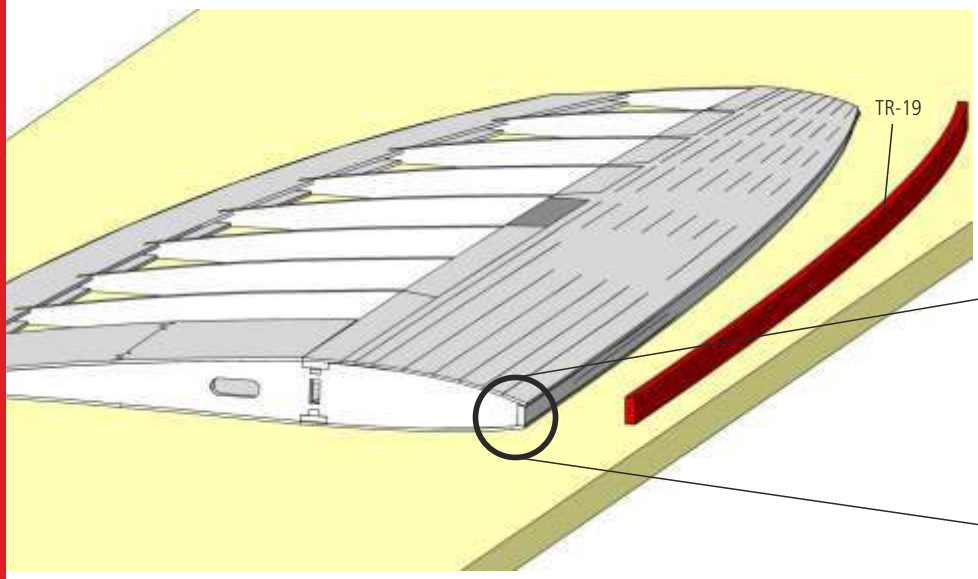




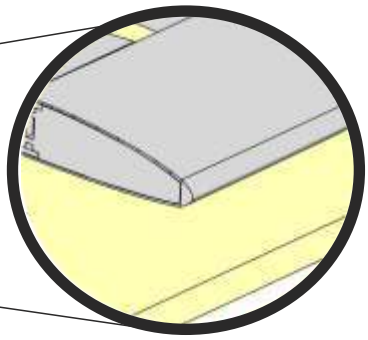
9 Place wing on building board and glue false leading edge TR-18 (balsa, 2 x 8 mm) to ribs and bottom sheeting. Sand flush with top of ribs after glue has dried.



10 Glue in place top sheeting TR-01 on ribs, spar and flase leading edge. Use suitable weights and tape to secure sheeting material until glue has dried completely.

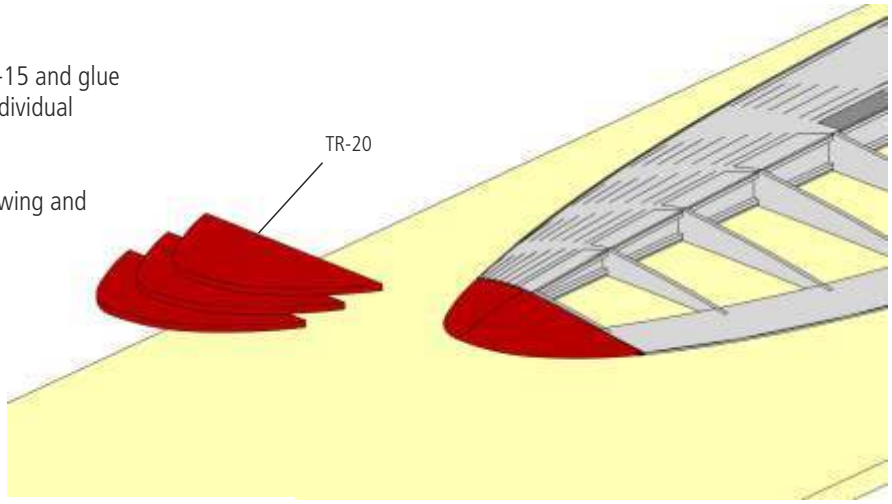


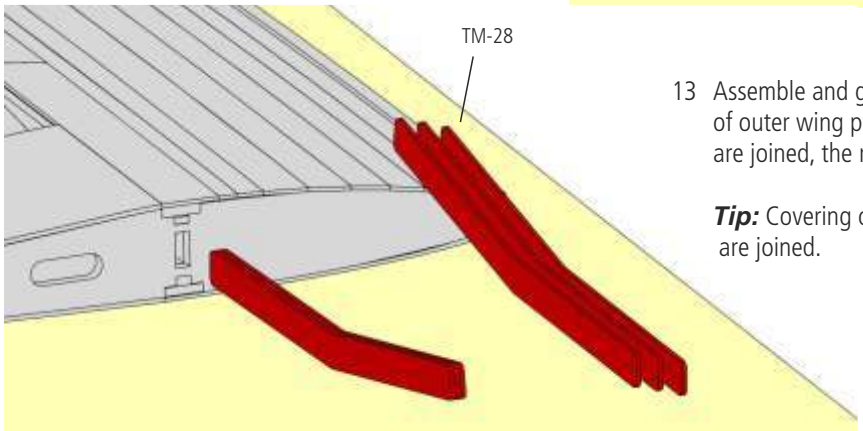
11 Cut off sheeting material flush with false leading edge then carefully sand sheeting material flush with false leading edge. Use a long sanding bar for best results. Then glue leading edge TR-19 (balsa, 3 x 8 mm) to false leading eding edge and sand to shape after glue has dried.



12 Sand sheeting material and spars flush with tip rib TR-15 and glue in place wing tip TR-20. The tip is made up of three individual parts.

When glue has dries, sand wing tip to fit planform of wing and shape of wing section.





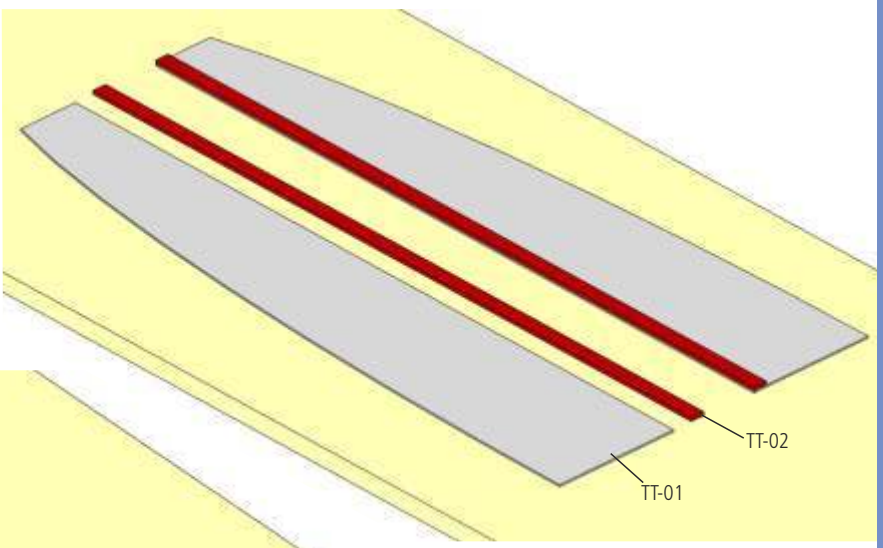
13 Assemble and glue together wing joiner parts TM-28. Carefully fit into slot of outer wing panel then glue in place. When centre and outer wing panels are joined, the root ribs will be glued together as well.

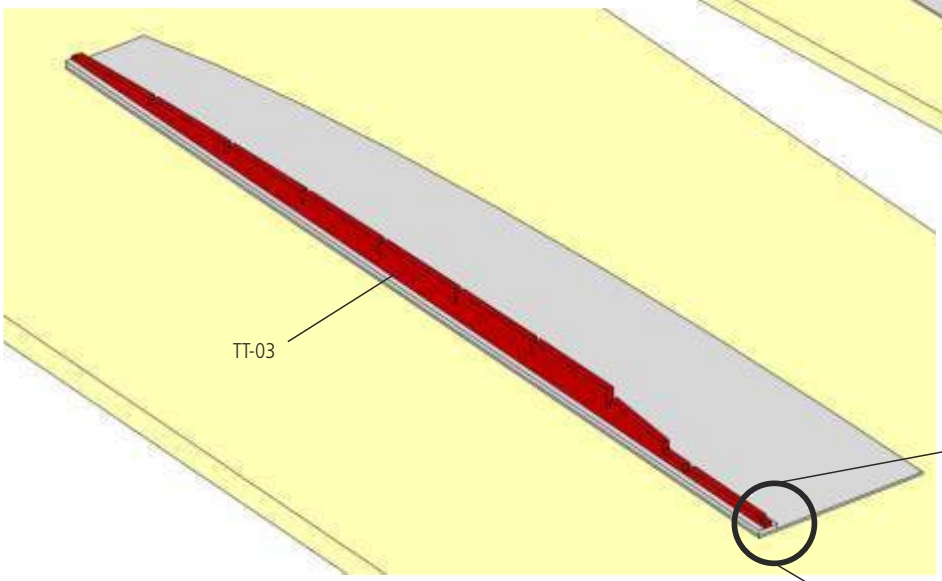
Tip: Covering of wing panels will be easier when done before wing panels are joined.

Section VI - Triple thermic Wing

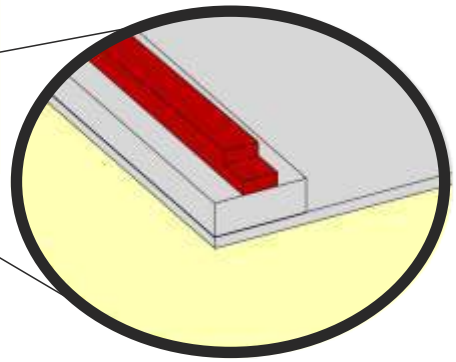
Attention: Make sure you build a left and a right wing panel. In this section construction of one wing panel is described. Build the opposite wing panel accordingly.

1 Protect building board with cling film. Place two parts TT-01 on building board as shown and secure with pins.
Glue spruce strip TT-02 (2 x 8 mm) to TT-01 and cut off flush with sheeting material on either side. Make sure to build a left and a right wing panel!

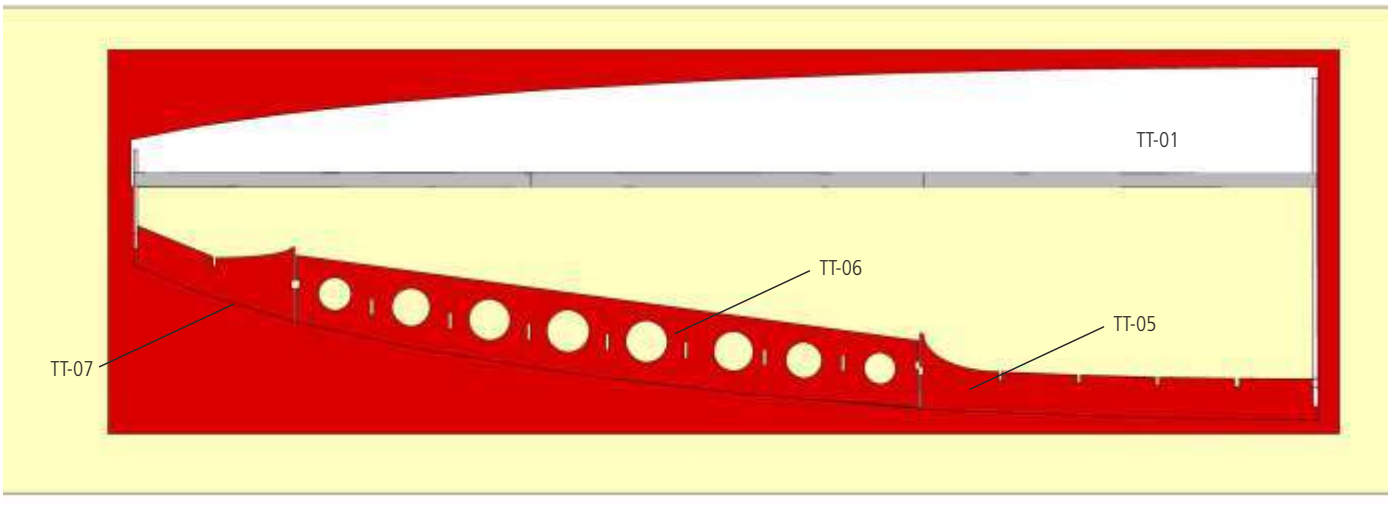




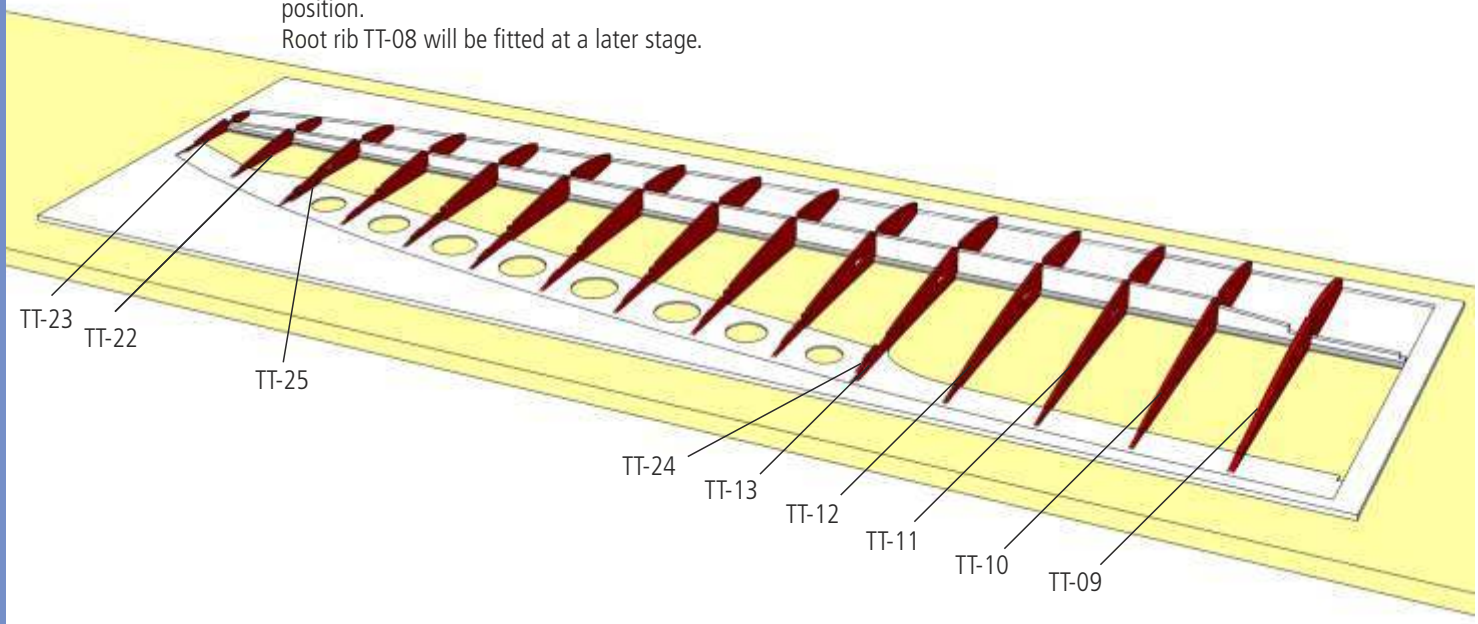
2 Position main spar TT-03 exactly in the middle of TR-02 and glue in place. Secure with pins until dry.
Wing joiner part TT-04 will be glued in place after ribs have been placed.

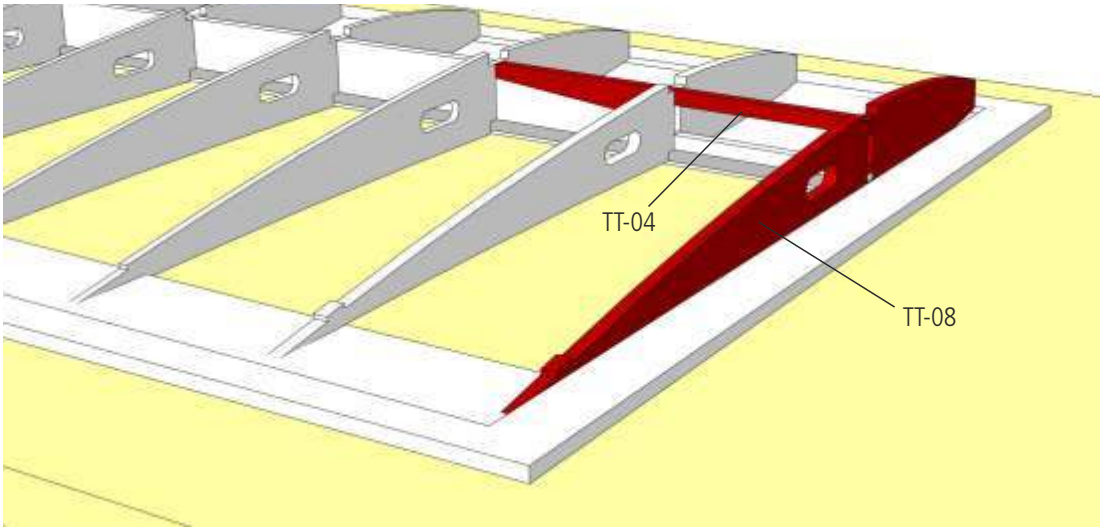


3 For the next building steps place the wing panel in the Depron building jig as shown to guarantee correct alignment of parts.
Place Depron jig on building board and secure with tape or pins. Then place TT-01 and trailing edge sheeting TT-05, TT-06, TT-07 in the jig as shown.

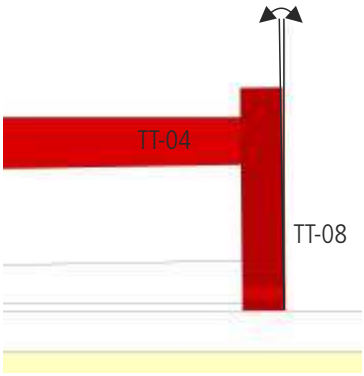


4 Fit ribs TT-09 to TS-23 in place in numerical order. Glue in place aileron riblets TT-24 and TT-25. Make sure you position ribs exactly at right angles in relation to spar, then glue in place. Note, that ribs are glued to spruce spar, main spar, trailing edge sheeting and aileron sheeting. Do not apply glue to front part of ribs between wing spar and leading edge position.
Root rib TT-08 will be fitted at a later stage.

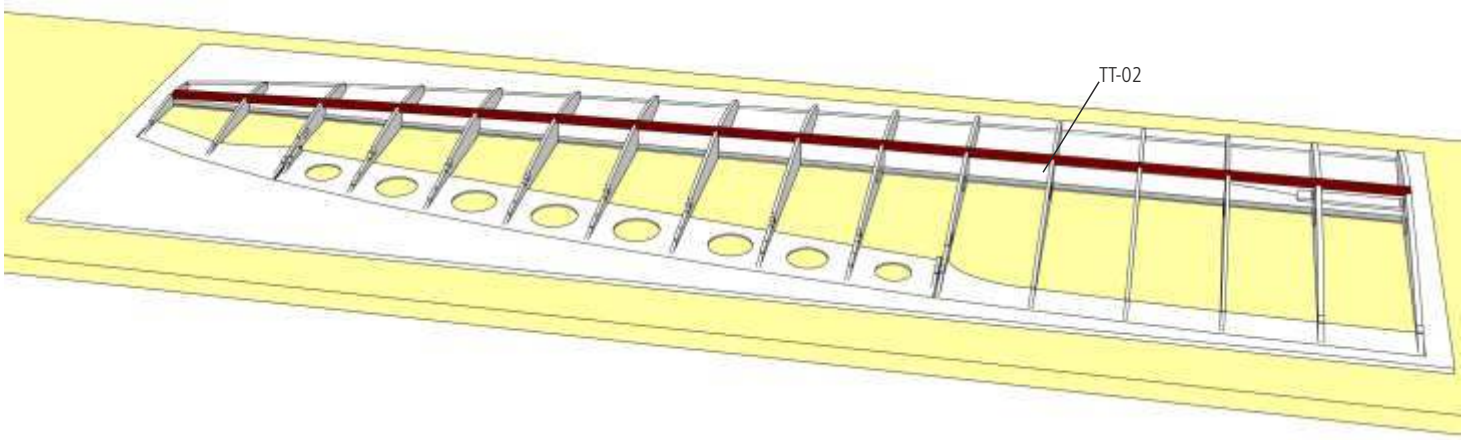




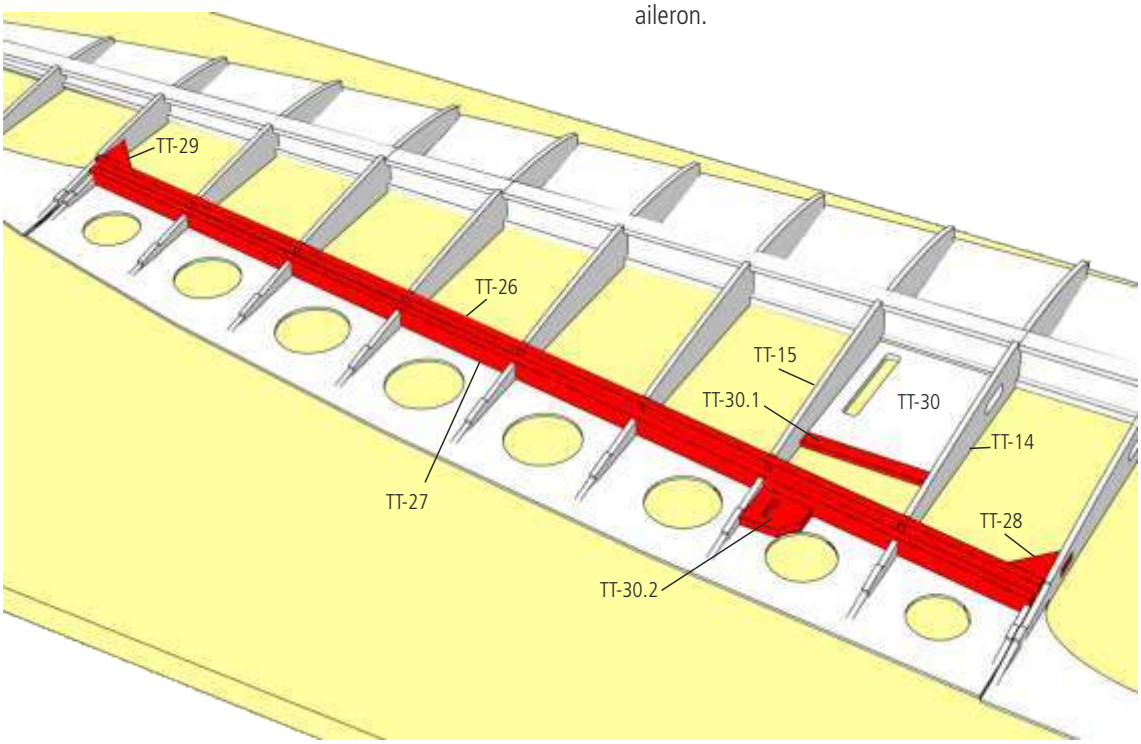
5 Now glue in place TT-04 and root rib TT-08.
Make sure root rib is slightly angled in accordance with dihedral of wing.

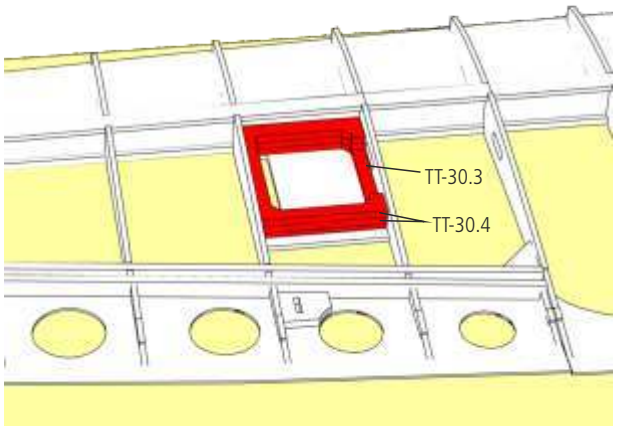


6 Cut to length upper spruce spar TT-02 (2 x 8 mm) and glue to ribs and main spar. Use suitable weigths to hold spar in place and leave to dry.



7 Glue in place aileron spar TT-26, aileron leading edge TT-27 as well as gussets TT-28 and TT-29. Insert servo tray TT-30 between ribs TT-14 and TT-15 flush with underside of ribs and against wing spar. Do not glue!
Glue end stop TT-30.1 to both ribs and glue reinforcement TT-30.2 in place on aileron.



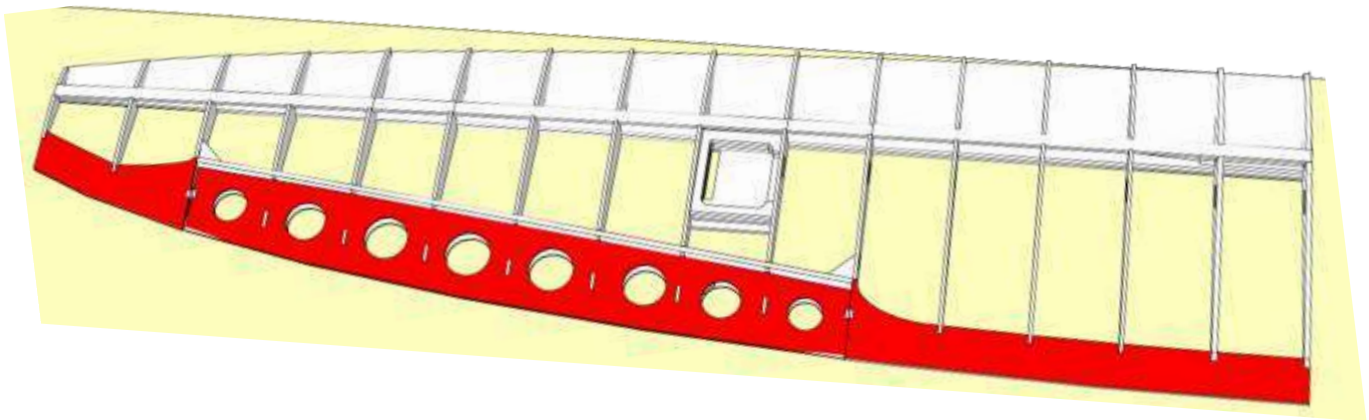


Glue together servo frames TT-30.3 and TT-30.4 as shown, and glue to spar and ribs. Make sure that hole for servo lead is not obstructed.

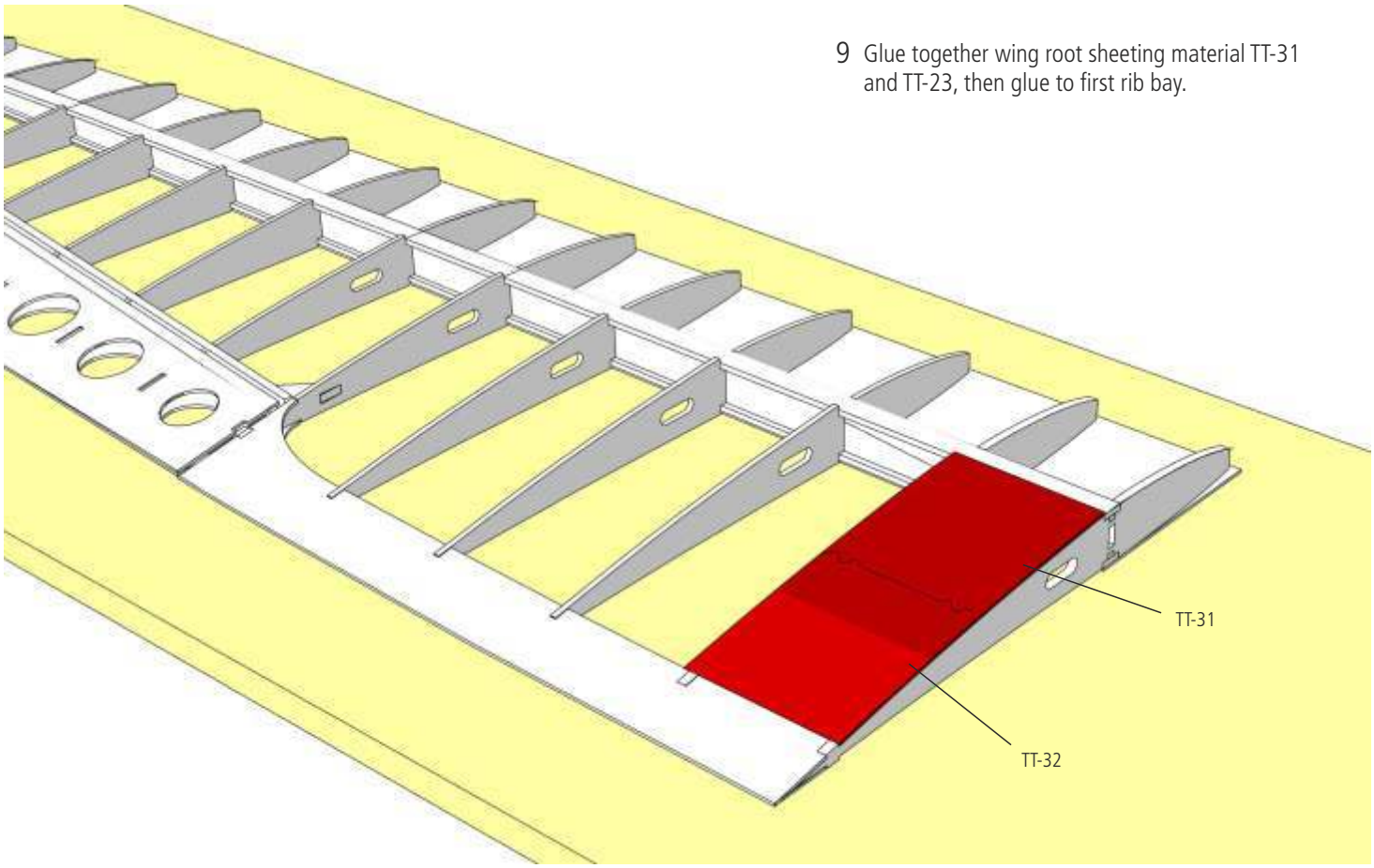
Attention: Do not glue frame to servo tray TT-30! TS-32 is merely used to position frame correctly.

8 Slightly bevel the last 3 mm of trailing edge and aileron sheeting to establish a good contact surface for gluing. Then glue in place top sheeting. Fit aileron top sheeting in place and achieve a good joint with leading edge TT-27.

Tip: Glue rear edge of sheeting with epoxy to get a strong trailing edge which can be sanded down to fine profile.

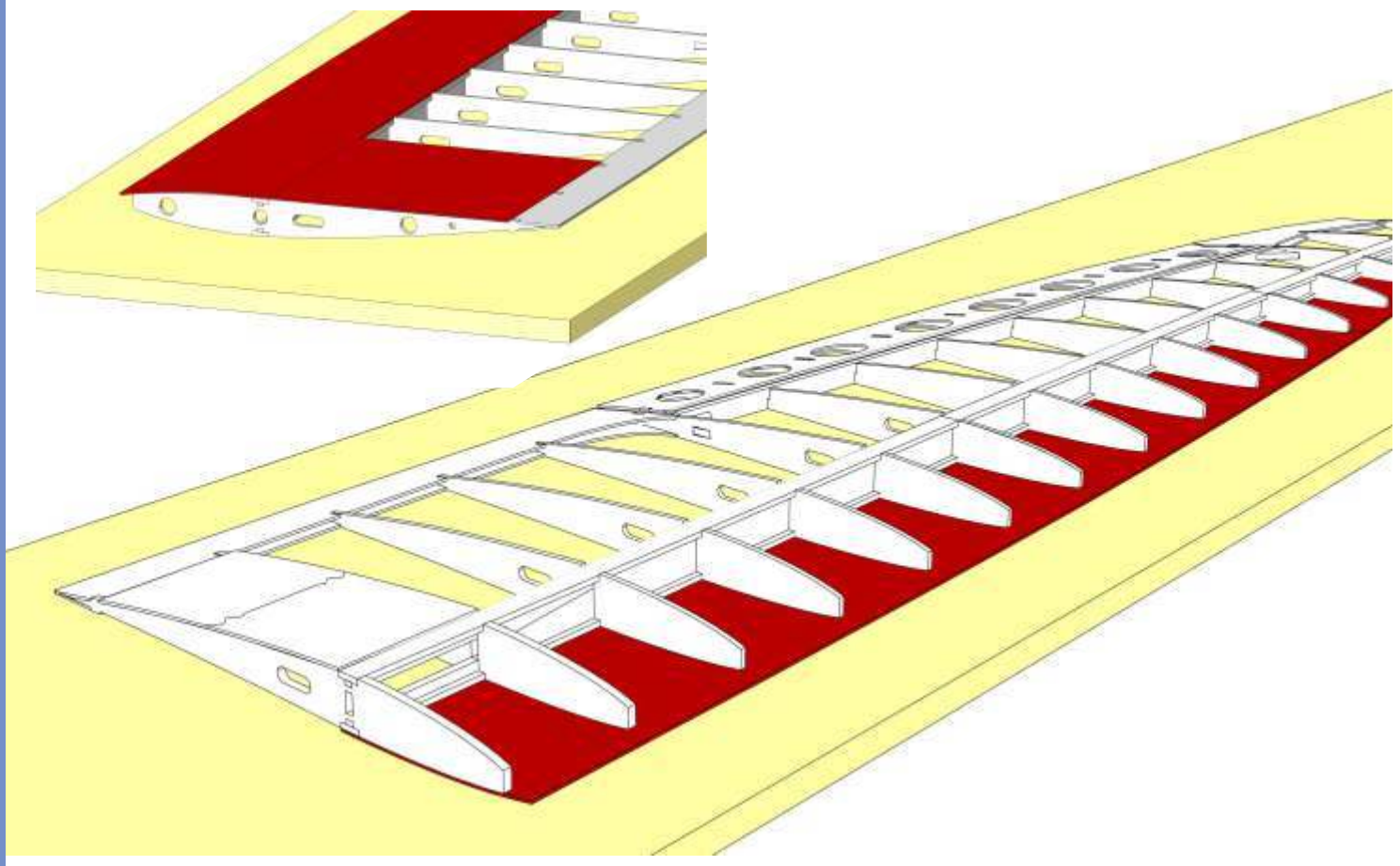


9 Glue together wing root sheeting material TT-31 and TT-23, then glue to first rib bay.

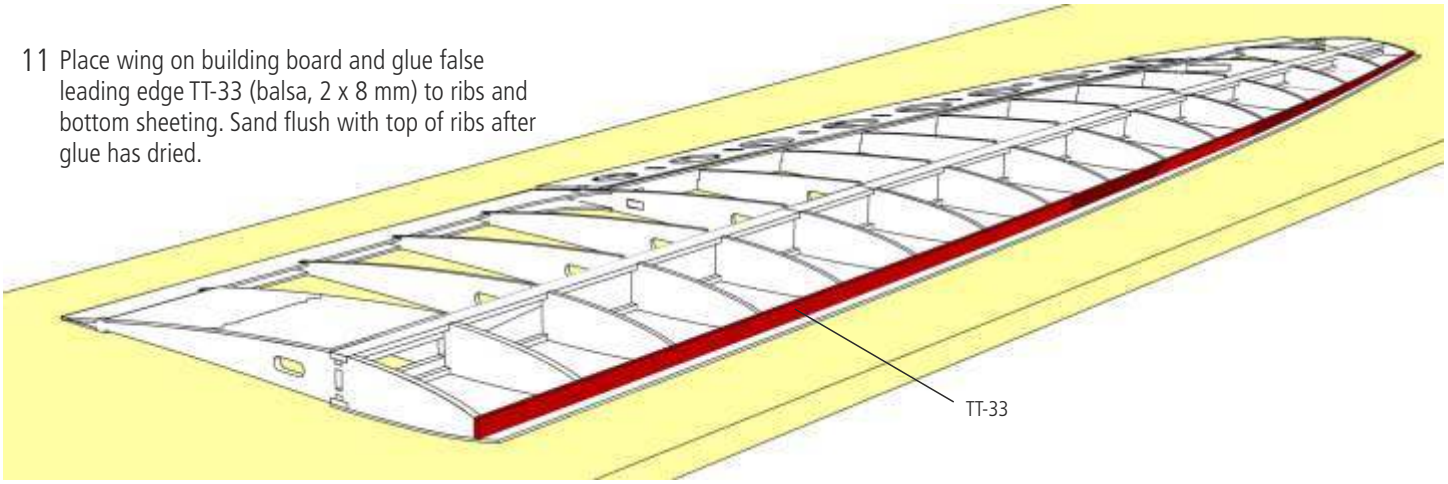


10 Remove wing from building board. Please handle with care and always place on an even surface, as the wing has no tortional stability at this time.

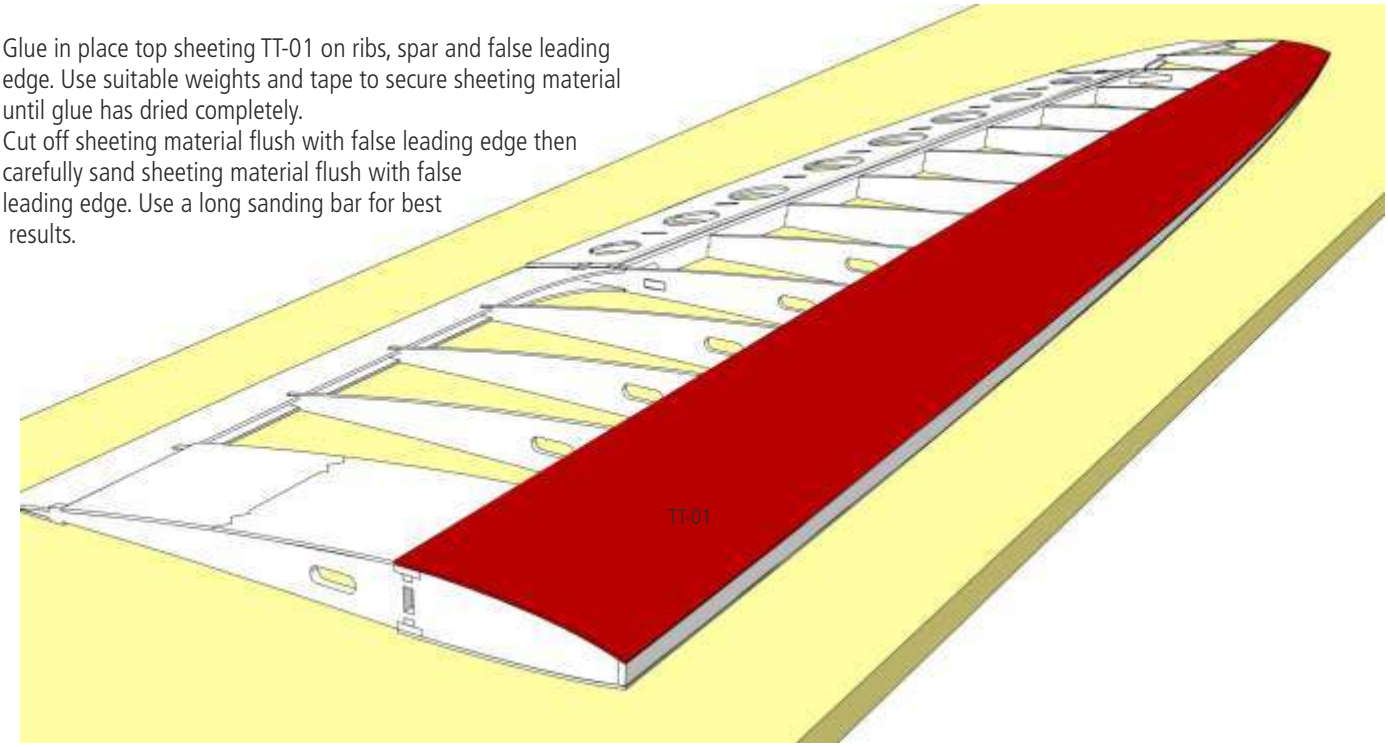
Glue bottom sheeting material to ribs. For best results use thin CA. Also glue in place sheeting material to the underside of wing root.



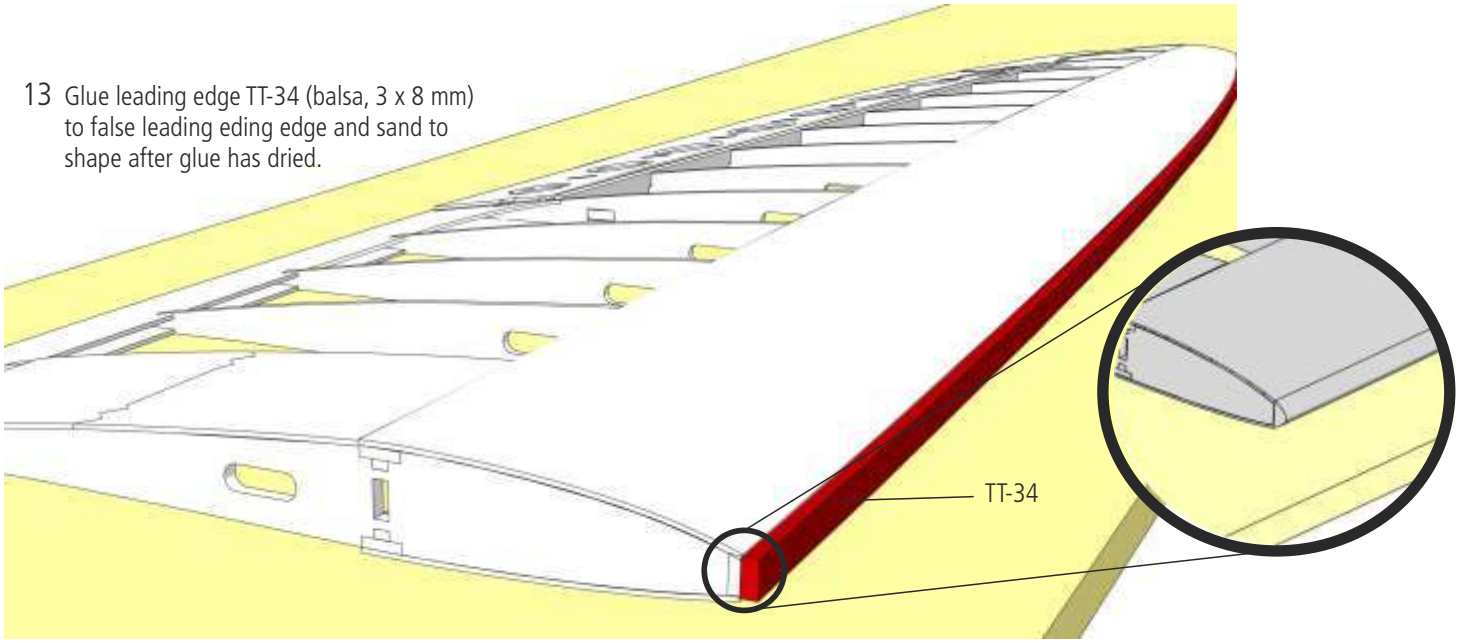
11 Place wing on building board and glue false leading edge TT-33 (balsa, 2 x 8 mm) to ribs and bottom sheeting. Sand flush with top of ribs after glue has dried.



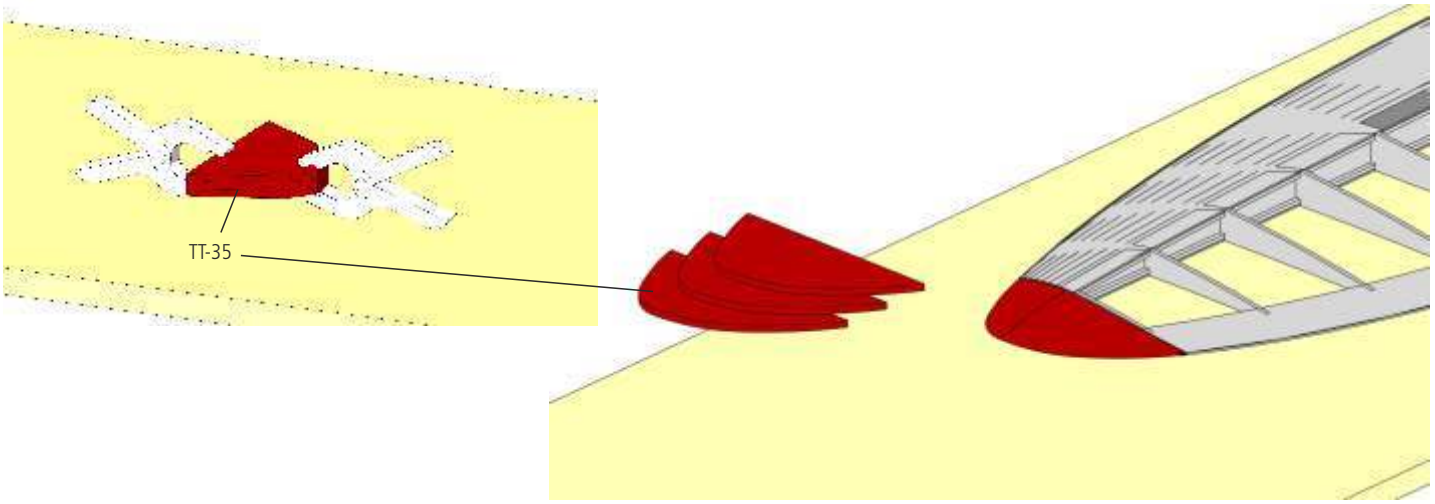
12 Glue in place top sheeting TT-01 on ribs, spar and false leading edge. Use suitable weights and tape to secure sheeting material until glue has dried completely.
Cut off sheeting material flush with false leading edge then carefully sand sheeting material flush with false leading edge. Use a long sanding bar for best results.



13 Glue leading edge TT-34 (balsa, 3 x 8 mm) to false leading eding edge and sand to shape after glue has dried.

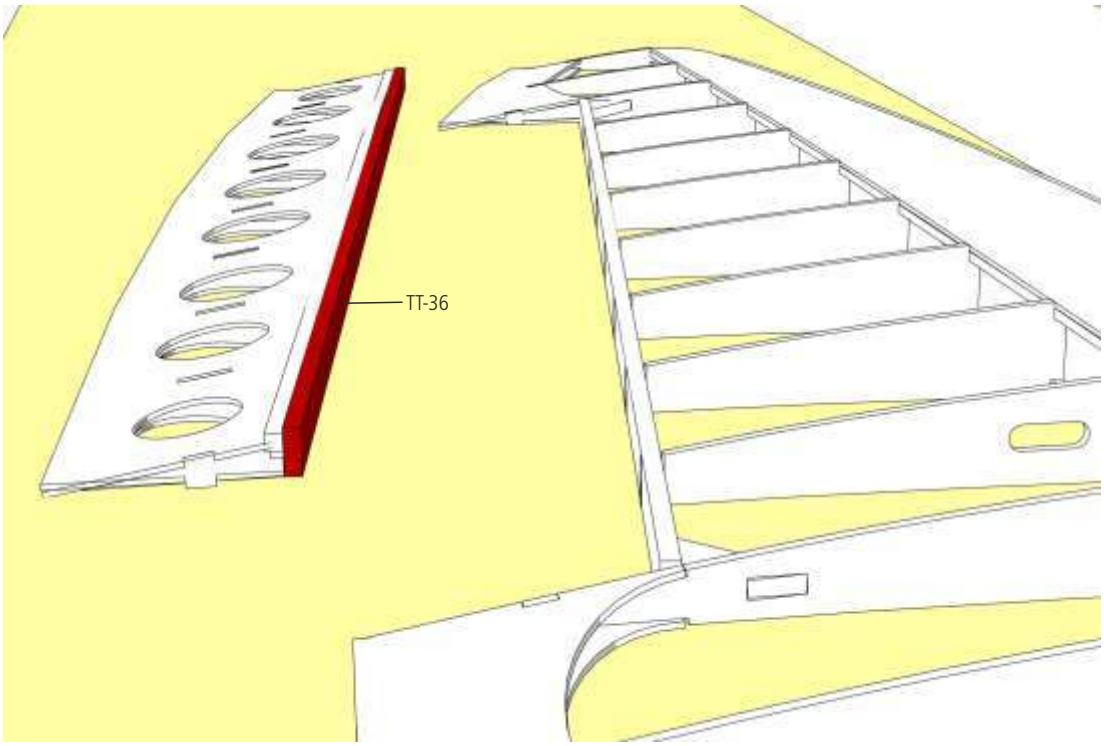


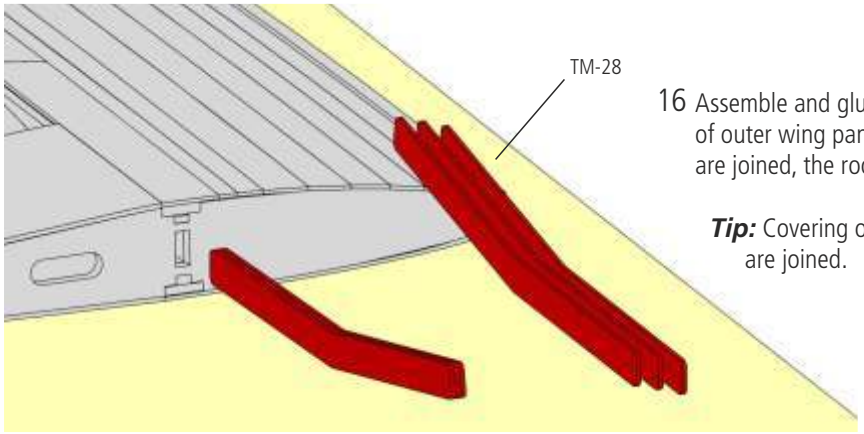
14 Make up wing tips from 3 parts TT-35 and secure with clamps until dry. Sand sheeting material and spars flush with tip rib TT-23 and glue in place wing tip TT-35.
Then sand wing tip to fit planform of wing and shape of wing section.



15 Use a razor saw to cut out the aileron and carefully sand sheeting material flush with riblets on either side. Glue TT-36 to front of aileron and bevel off to allow for sufficient control throw. After covering attach aileron to wing with tape.

Tip: If you do not want to use tape, you can bevel off top and bottom of TT-36 and use small hinges to attach the aileron to the wing.





16 Assemble and glue together wing joiner parts TM-28. Carefully fit into slot of outer wing panel then glue in place. When centre and outer wing panels are joined, the root ribs will be glued together as well.

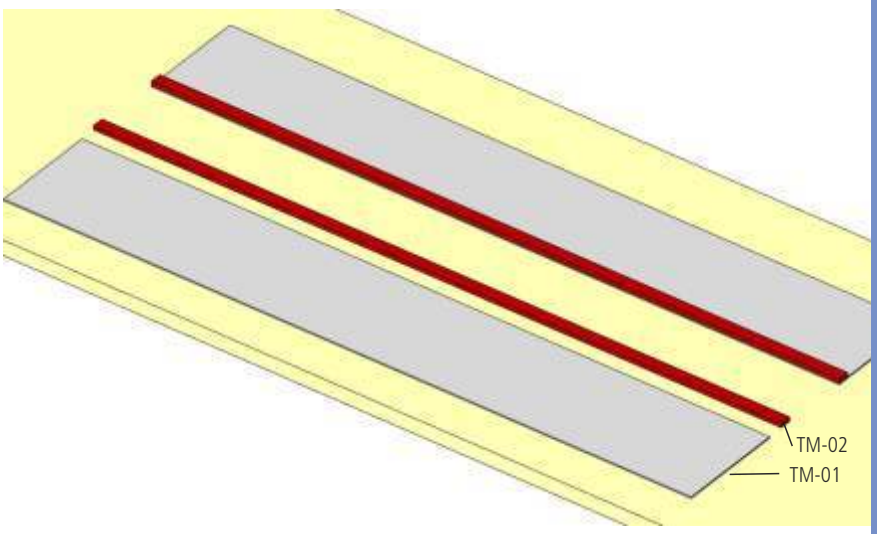
Tip: Covering of wing panels will be easier when done before wing panels are joined.

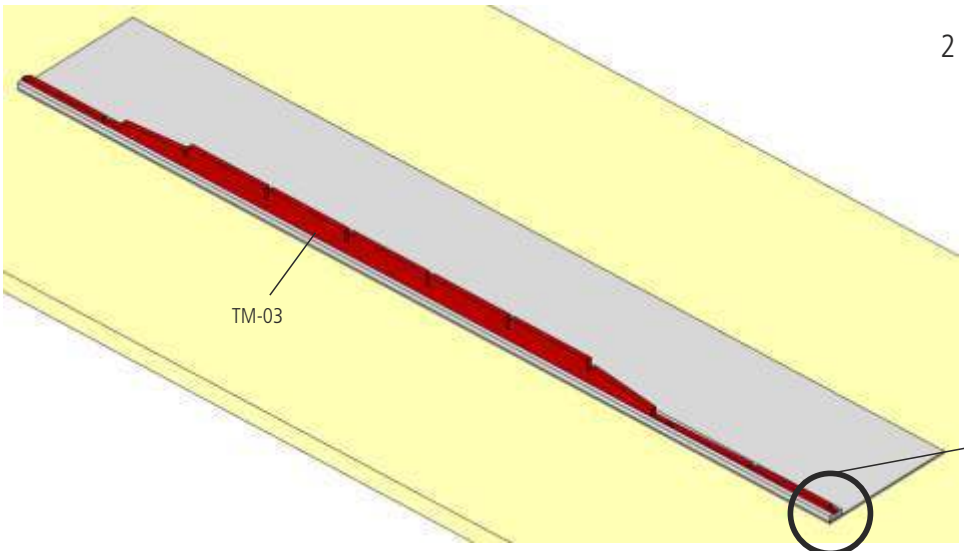
A final sanding will make the wing panel ready to cover.

Section VII - R.E.S. and thermic Centre Section

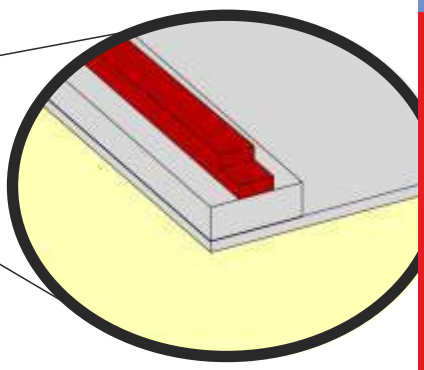
Attention: Make sure you build a left and a right wing panel. In this section construction of one wing panel is described. Build the opposite wing panel accordingly.

1 Protect building board with cling film. Place two parts TM-01 on building board as shown and secure with pins.
Glue spruce strip TM-02 (3 x 8 mm) to TM-01 and cut off flush with sheeting material on either side.
Make sure to build a left and a right wing panel!

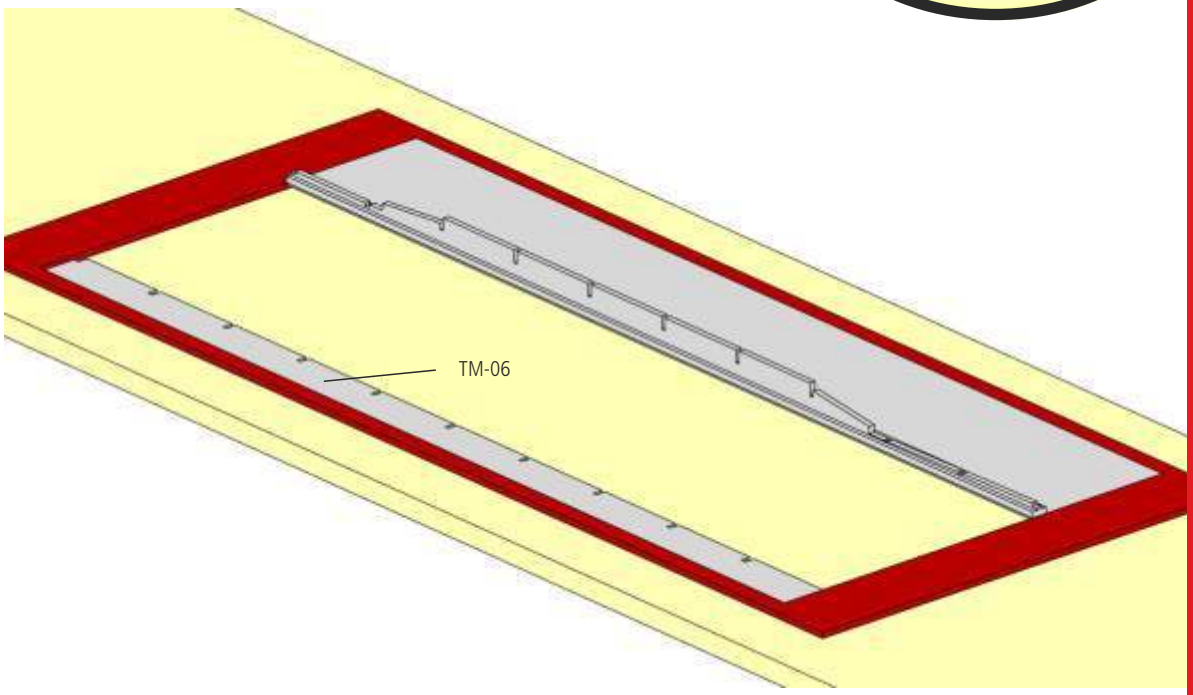




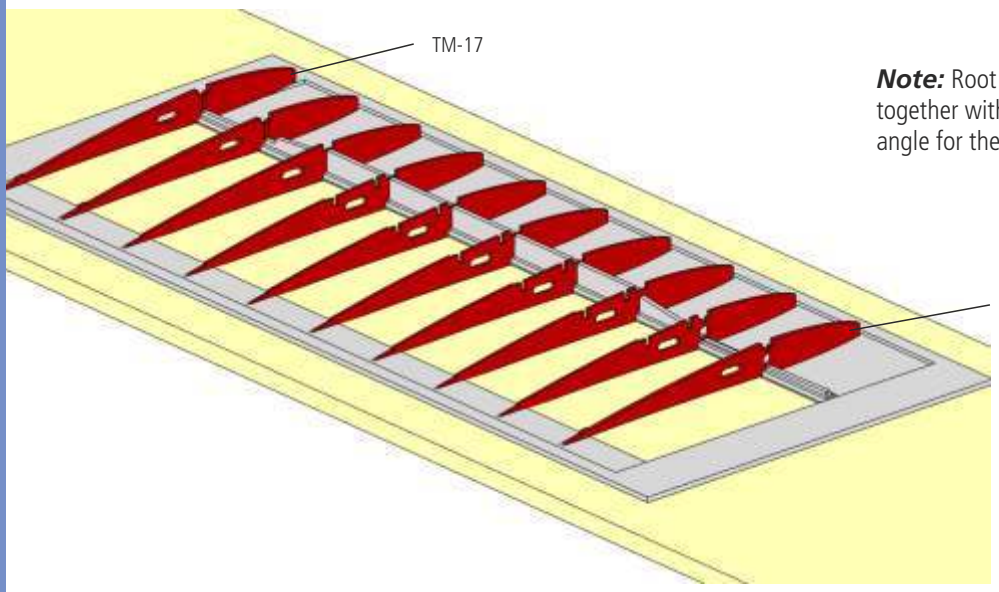
2 Position main spar TM-03 exactly in the middle of TM-02 and glue in place. Secure with pins until dry.
Wing joiner parts TM-04 and TM-05 will be glued in place after ribs have been placed.



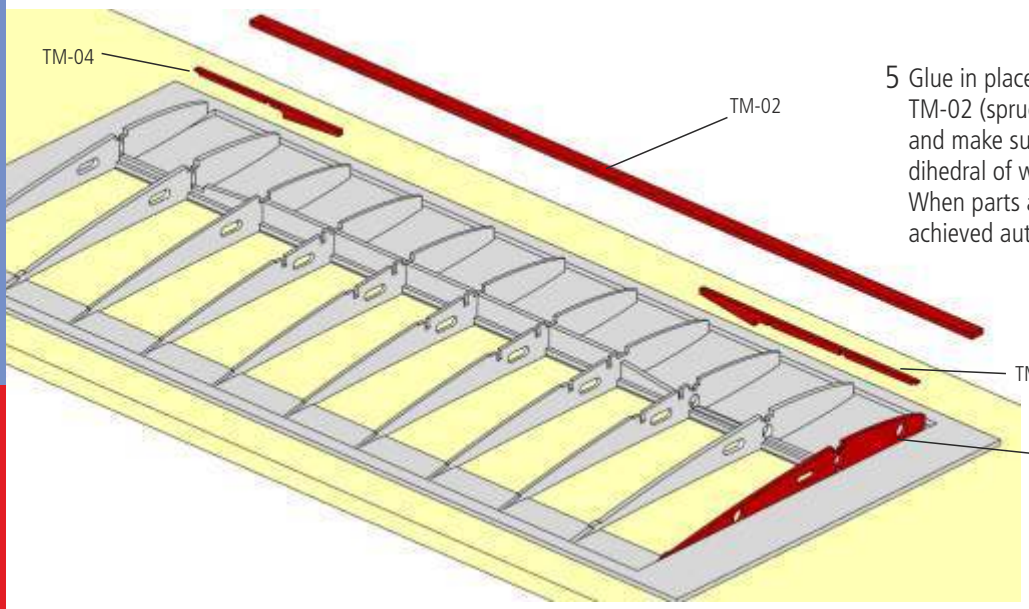
3 For the next building steps place the wing panel in the Depron building jig as shown to guarantee correct alignment of parts.
Place Depron jig on building board and secure with tape or pins. Then place TM-01 and trailing edge sheeting TM-06 in the jig as shown.



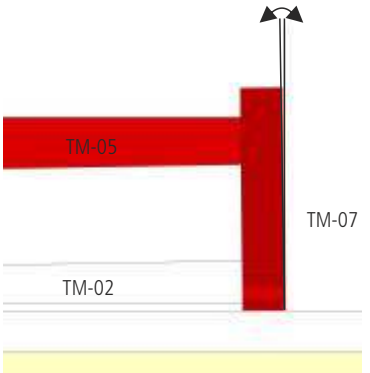
4 Fit ribs TM-08 to TM-17 in place. Make sure you position ribs exactly at right angles in relation to spar, then glue in place. Note, that ribs are glued to spruce spar, main spar and trailing edge sheeting. Do not apply glue to front part of ribs between wing spar and leading edge position.

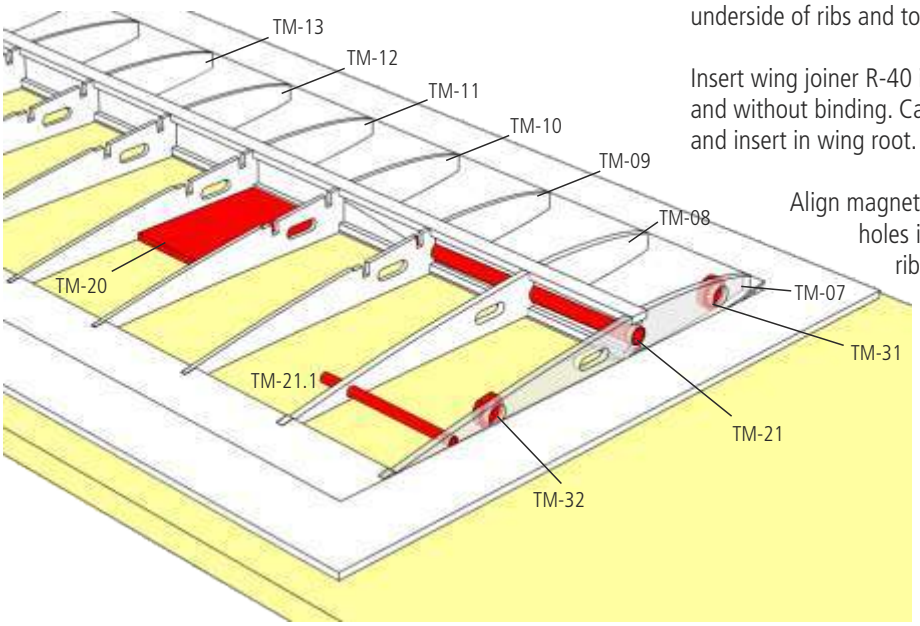


Note: Root rib TM-07 will be fitted at a later stage together with TM-05. TM-05 determines the correct dihedral angle for the root rib.



5 Glue in place TM-04 and TM-05 together with top spar TM-02 (spruce, 3 x 8 mm). Glue in place root rib TM-07 and make sure it is slightly angled in accordance with dihedral of wing.
When parts are positioned correctly correct dihedral is achieved automatically.



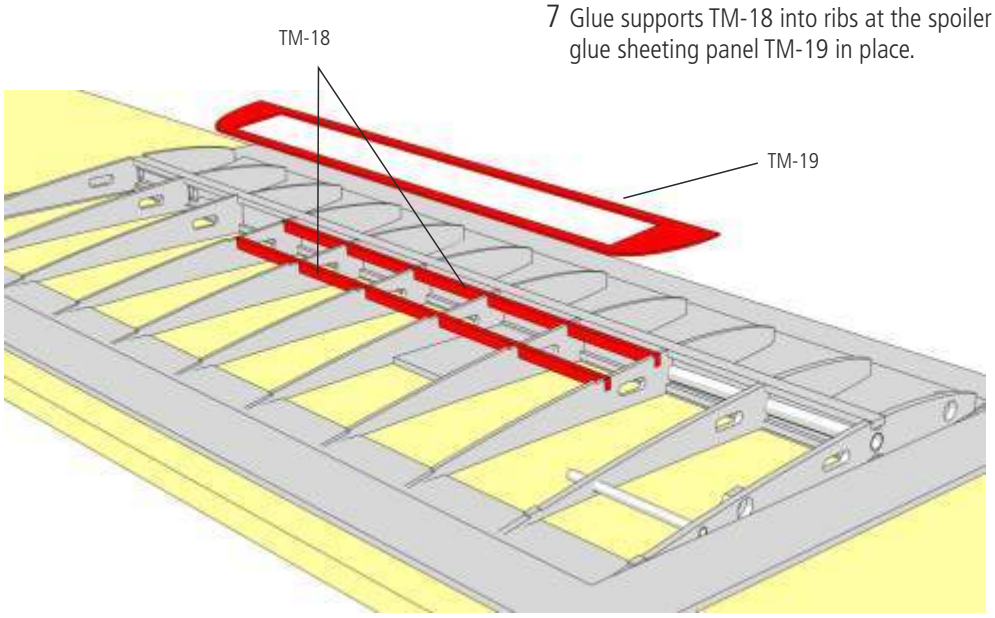


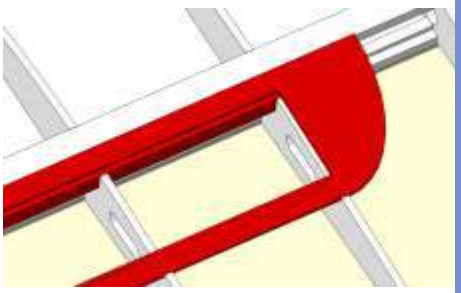
6 Insert servo tray TM-20 between ribs in 4th rib bay and glue flush with underside of ribs and to wing spar.

Insert wing joiner R-40 into sleeve TM-21 and make sure it moves freely and without binding. Carefully sand surface of wing joiner sleeve TM-21 and insert in wing root. Glue with epoxy mixed with glass fibres.

Align magnet supports TM-31 and TM-32 with corresponding holes in root rib TM-07, then glue to the inside of root rib.

7 Glue supports TM-18 into ribs at the spoiler position and glue sheeting panel TM-19 in place.

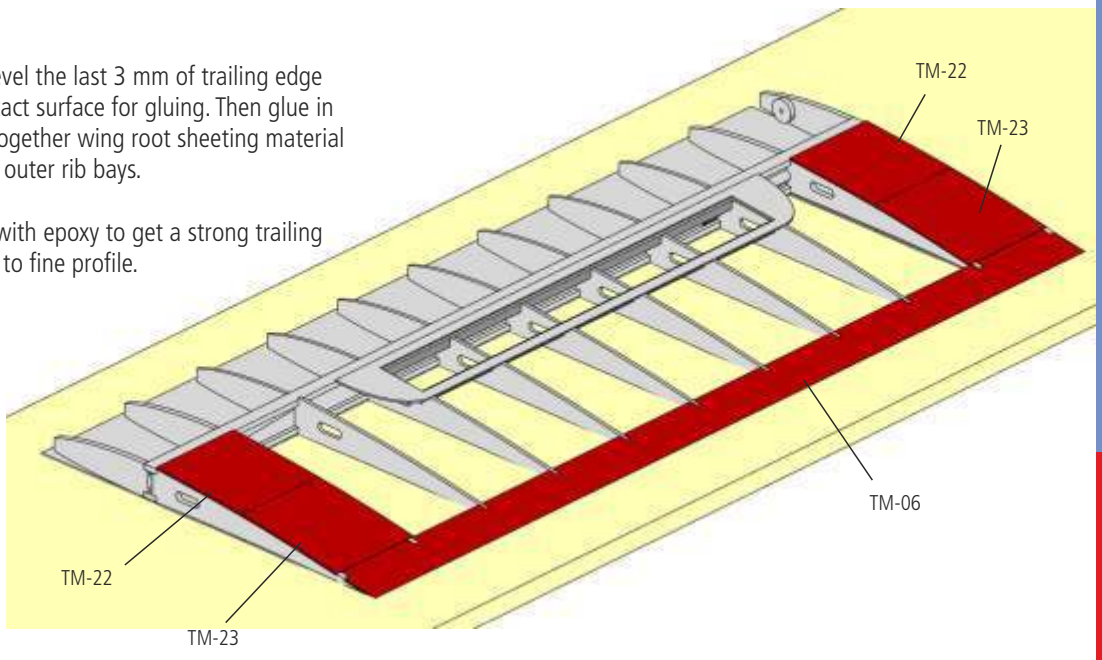


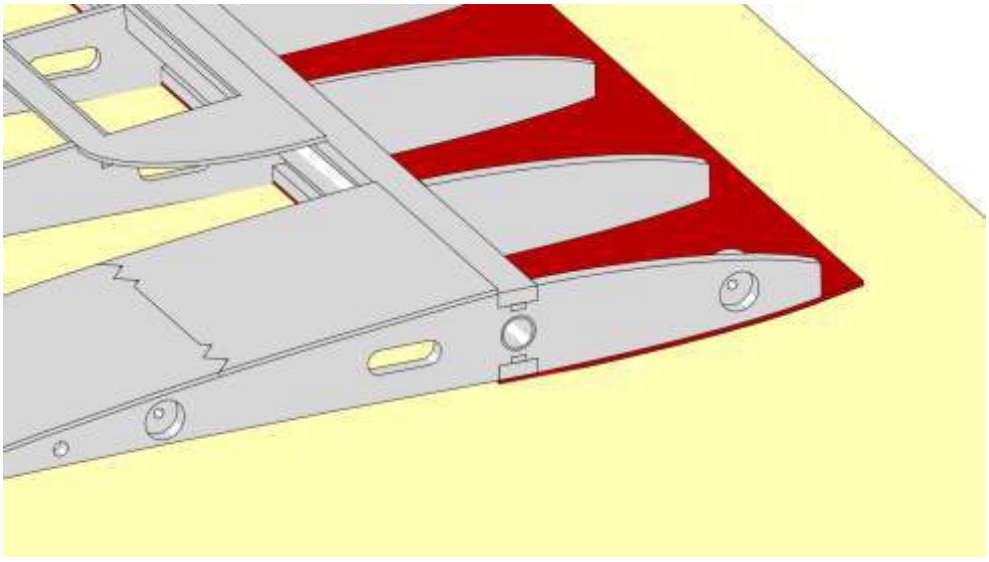


Note that sheeting is centred on supports and ribs which act as an e stop for the spoiler.

8 Remove wing from jig. Slightly bevel the last 3 mm of trailing edge sheeting to establish a good contact surface for gluing. Then glue in place top sheeting TM-06. Glue together wing root sheeting material TM-122 and TM-23, then glue to outer rib bays.

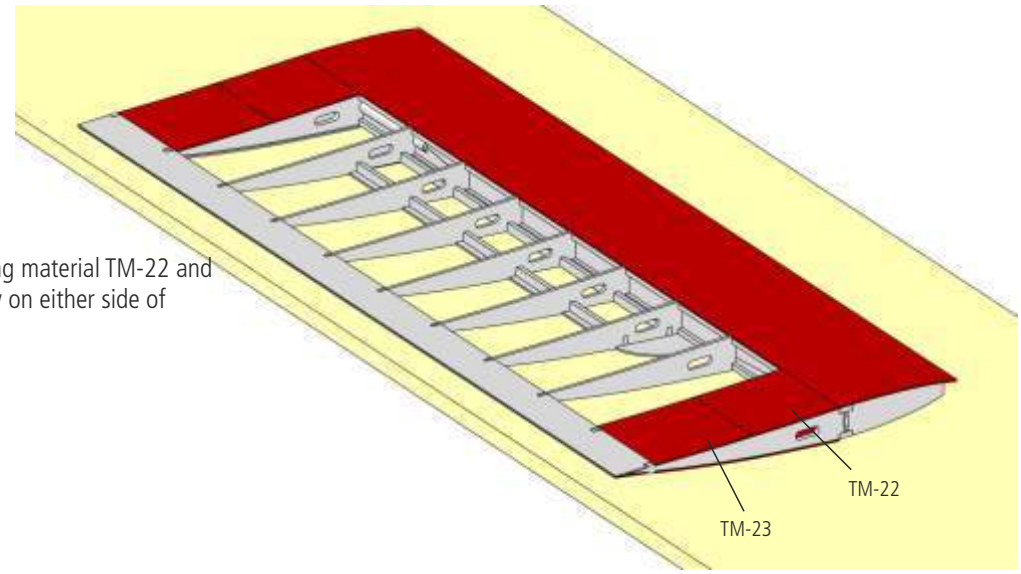
Tip: Glue rear edge of sheeting with epoxy to get a strong trailing edge which can be sanded down to fine profile.



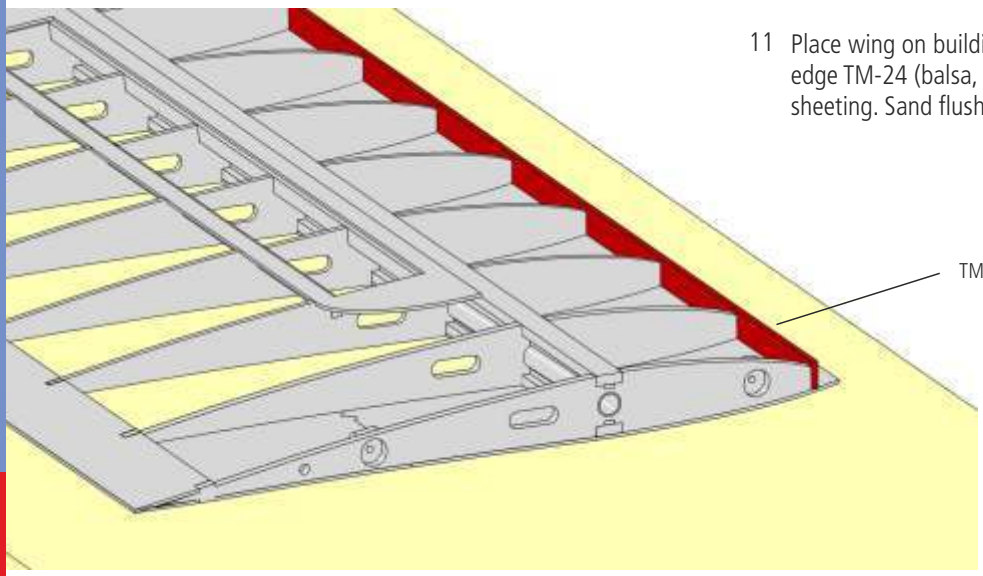


9 Glue bottom sheeting material to ribs. For best results use thin CA.

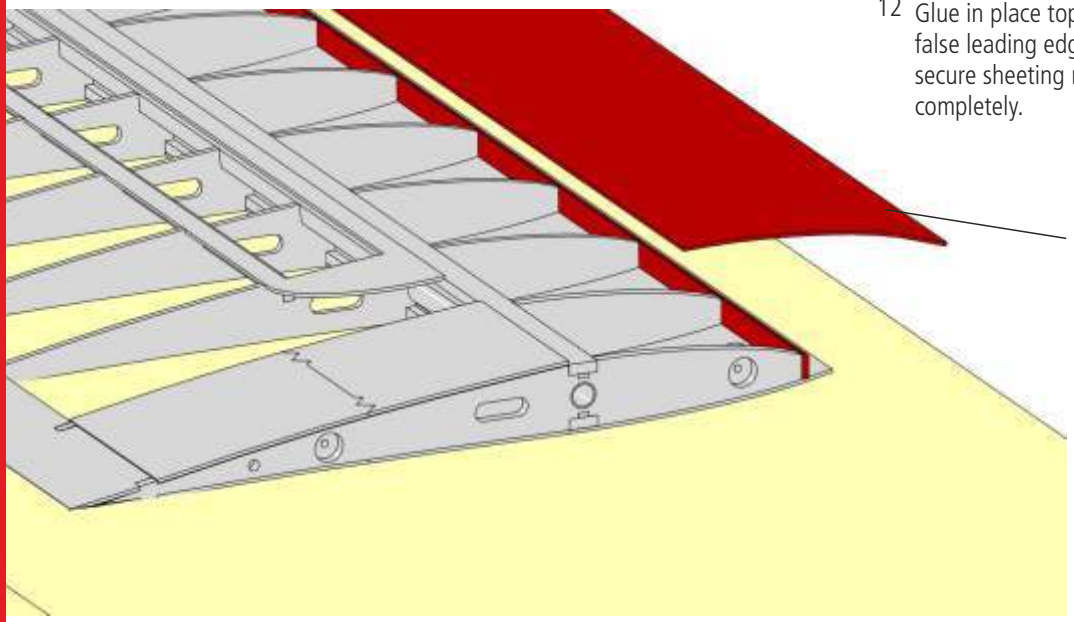
10 Glue together wing root sheeting material TM-22 and TM-23, then glue to first rib bay on either side of wing.



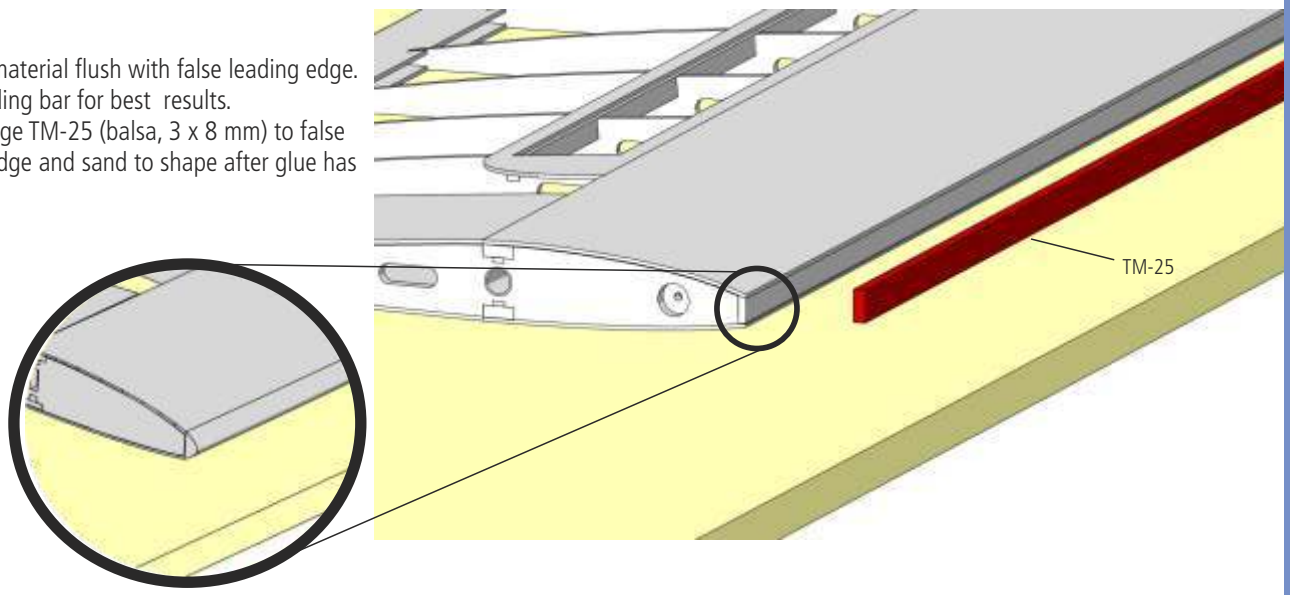
11 Place wing on building board and glue false leading edge TM-24 (balsa, 2 x 8 mm) to ribs and bottom sheeting. Sand flush with top of ribs after glue has dried.

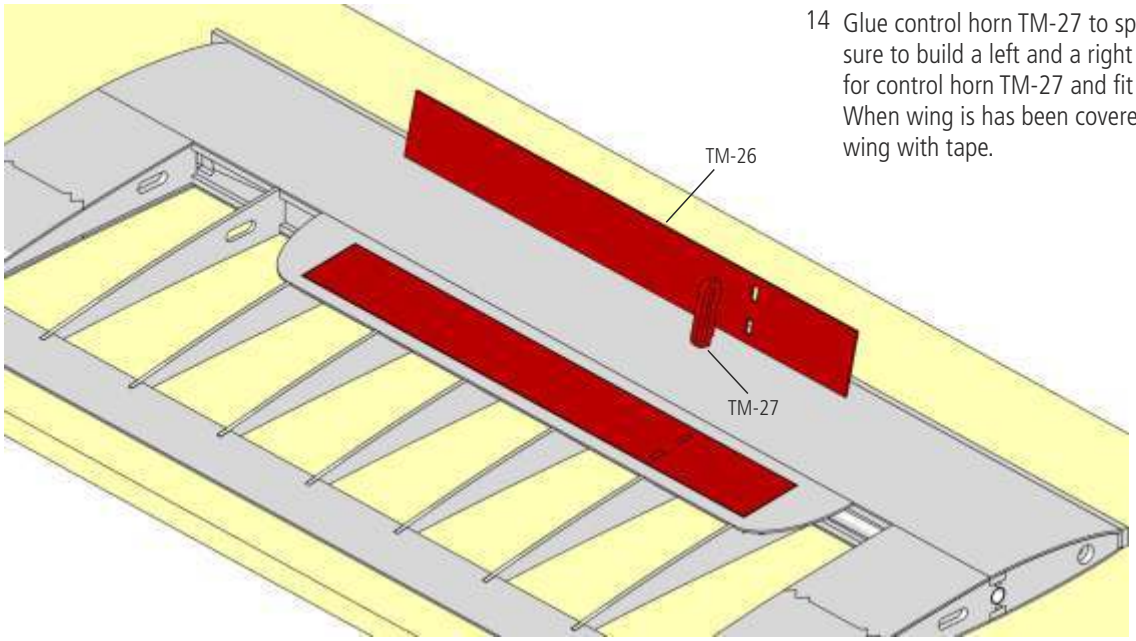


12 Glue in place top sheeting TM-01 on ribs, spar and false leading edge. Use suitable weights and tape to secure sheeting material until glue has dried completely.



13 Sand sheeting material flush with false leading edge. Use a long sanding bar for best results.
Glue leading edge TM-25 (balsa, 3 x 8 mm) to false leading eding edge and sand to shape after glue has dried.



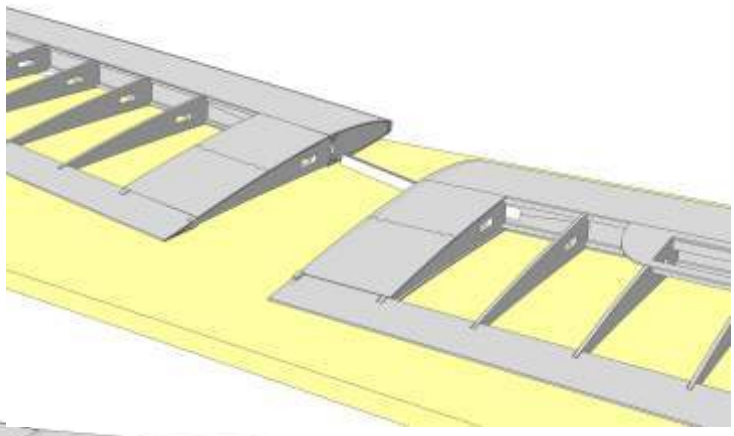


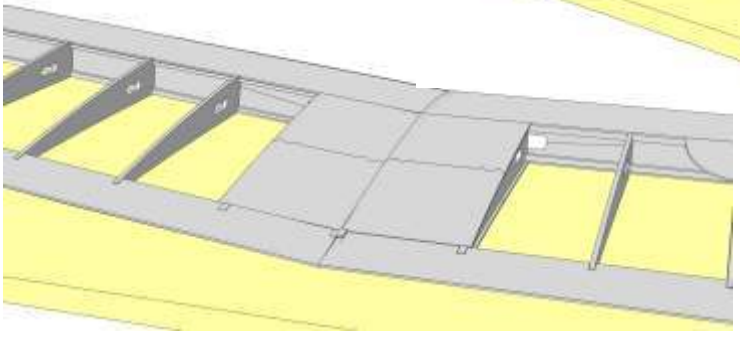
14 Glue control horn TM-27 to spoiler TM-26. Make sure to build a left and a right spoiler! File a notch for control horn TM-27 and fit spoiler in place. When wing is has been covered, attach spoiler to wing with tape.

A final sanding will make the inner wing panel ready to cover. Wing joiner TM-28, wing locator dowel TM-29 and magnets TM-30 are glued in place after finish is complete.
Make sure that inner wing panels and outer wing panels fit together well. Root ribs should fit together without a gap. Correct, if necessary, to achieve a perfect fit.

Note for Triple thermic: Route aileron servo leads through ribs of inner wing panel before inner wing panel is covered!

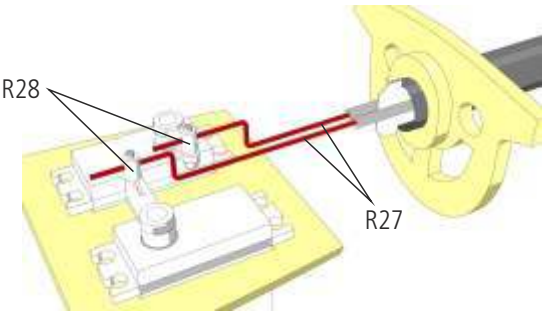
15 When covering is complete, glue inner wing panels and outer wing panels together. Protect covering material next to contact surfaces with tape.
Apply a liberal amount of epoxy to wing joiners and ribs. Insert wing joiners in slots andpress wing panels together. Secure with tape until glue has cured.

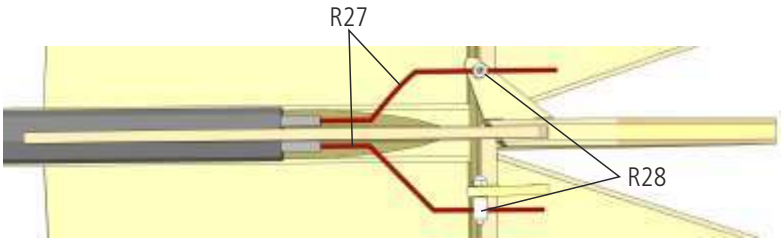




Completing the Model

1 Install servos in fuselage. Install connectors R28 on control horns and connect piano wires. Bend wires R27 to fit connectors on control horns and make sure they move freely and without binding. See graphics for details.

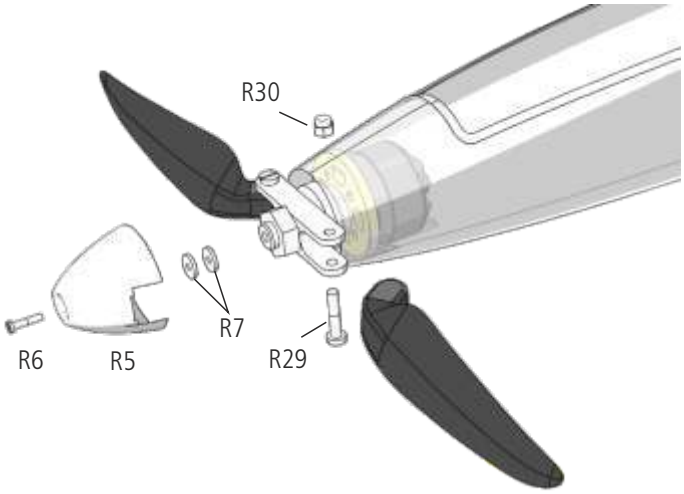




2 Install radio equipment and battery and connect servos. Secure battery with hook and loop tape on battery tray. This will help you adjust the centre of gravity by moving battery to the correct position.

Install folding prop and spinner on motor.

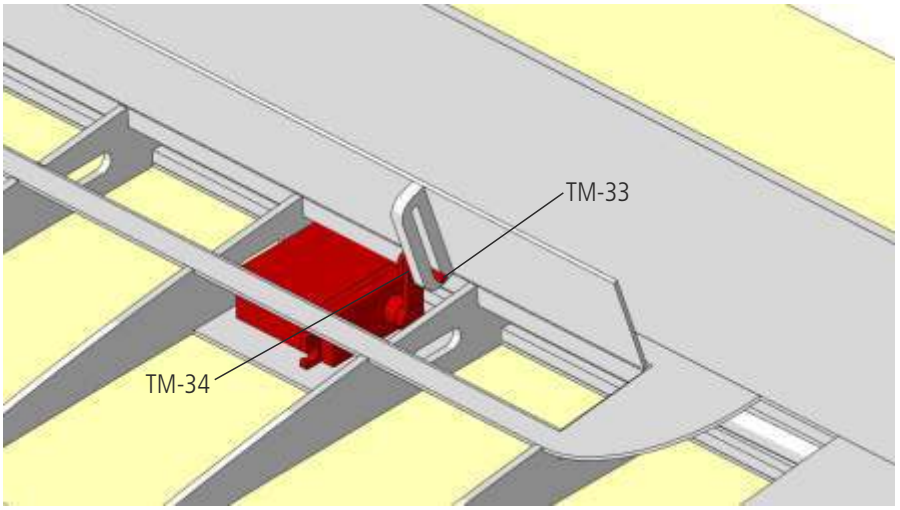
Attention: Always disconnect battery when you work on motor and prop!



3 ***Triple Neo R.E.S. and thermic:***

For spoiler control use servos with a maximum width of 10 mm. On Triple thermic route aileron servo lead between spoiler servo and spar. If necessary use file or similar tool to enlarge opening in ribs for routing the cable.
Install M2 screw TM-33 with nut TM-34 in outer-most position on servo arm. Connect servo to spoiler and position servo on servo tray . If necessary cut off part of TM-33. Temporarily attach spoiler to wing and check control throw. Mark position of servo on servo tray and glue servo in place.

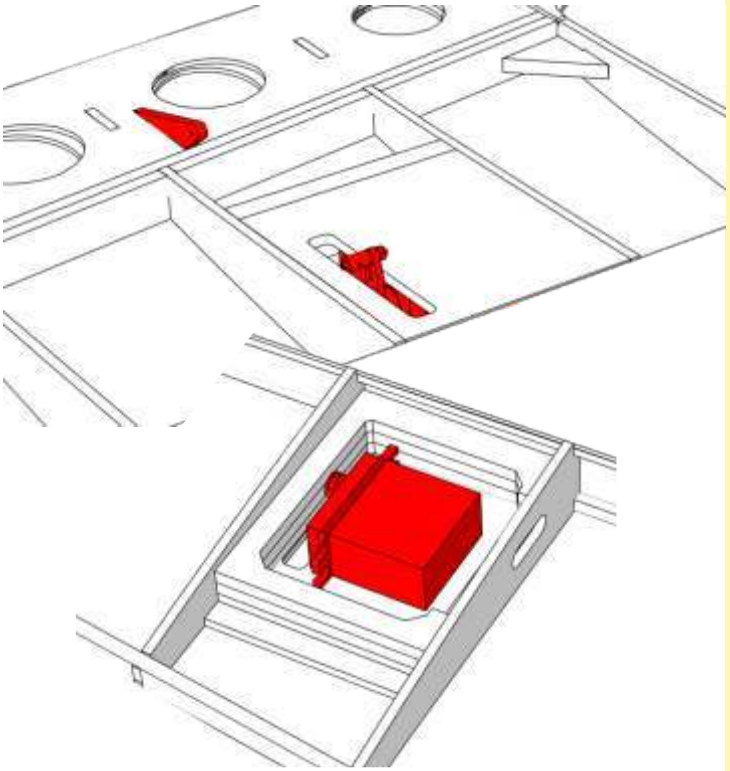
Install servo in opposite wing accordingly.



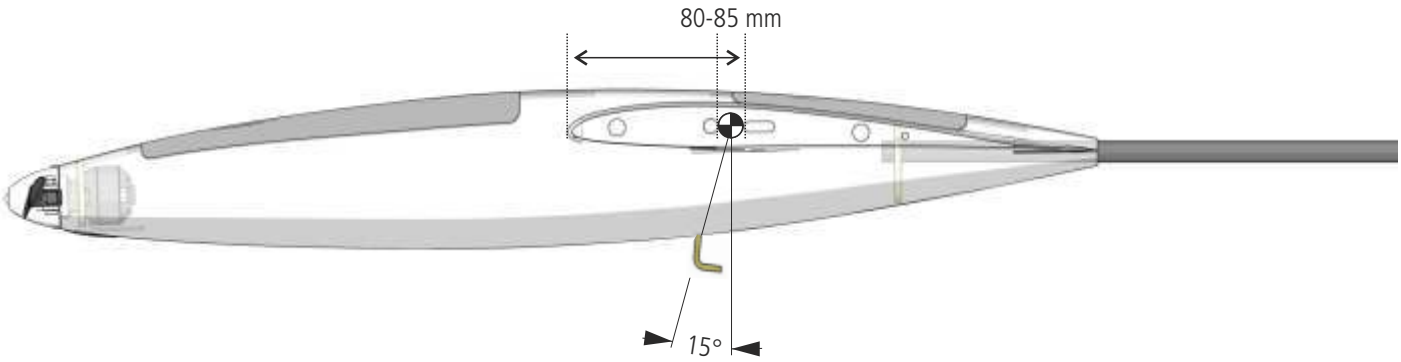
4 ***Triple Neo speed und thermic:***

For aileron control use servos with a maximum width of 11,5 mm.
Install connector in outer-most position on servo arm and move servo arm to neutral position.
Place servo on servo tray. Establish and mark position of aileron horn. Cut piano wire TS-43 / TT-38 to length and make a Z-bend at one end. Glue servo in place and retract servo arm into wing before covering.
When attaching the aileron, first insert piano wire in control horn, then insert other end in connector on servo arm and attach aileron with hinge tape.

Install servo in opposite wing accordingly. Please also refer to the instruction manual of your radio equipment for information.



5 Balance completed model carefully and move RC equipment to achieve correct balance point.



6 Install tow hook if required. Correct position is approximately 15° in front of centre of gravity. Please make sure to glue suitable hardwood strip inside the fuselage to screw tow hook to.

7 ***Settings***

Centre of gravity:	ca. 80-85 mm behind leading edge
Angle of incidence and dihedral:	built into laser-cut parts
Control throws	(taken at rear end of control surfaces)
Rudder:	ca: 20 mm left/right
Elevator:	ca. 20 mm up/down
Ailerons:	15/10 mm up/down
Spoilers:	maximum travel

Tips for Flying

The Triple series of models is intended to be flown in light-wind condtions. Triple Neo R.E.S. and Triple Neo thermic are particularly suited for thermal soaring, Triple Neo speed can also be used for moderate slope soaring.
The settings given above can be used for initial flights and may be adapted to the pilot´s individual requirements. Triple Neo speed is he most agile model of the Triple Neo series. We recommend you start with limited aileron throws until you get a feel for the model and adapt control throws to your needs step by step.
Please note that the models of the Triple Neo series are faster than the Triples with conventional wooden fuselages. Please bear that in mind when you change from a conventional Triple to a model of the Triple Neo series.

Always observe local regulations applicable for model aeroplanes. We recommend to contact a local flying club for additonal advice.

Parts lists

Parts list Triple NEO fuselage + tail

No	Item	Qty	Material	Laser sheet	Type	Dimensions
S-1	template motor mount	1	birch ply	1-1	laser cut	3 mm
S-2	template motor mount	1	birch ply	1-1	laser cut	3 mm
S-3	template motor mount	1	birch ply	1-1	laser cut	3 mm
S-4	template motor mount	1	birch ply	1-1	laser cut	3 mm
S-5	spacer	3	birch ply	1-1	laser cut	3 mm
S-6	screw	1	metal		ready made	M8
S-7	installation tool	1	birch ply	1-1	laser cut	3 mm
S-8	nut	1	metal		ready made	M8
S-9	template	1	Depron		laser cut	3 mm
S-10	template	1	Depron		laser cut	3 mm
R-1	fuselage	1	GRP		ready made	
R-2	motor mount	1	birch ply	1-1	laser cut	3 mm
R-3	spacer	1	aluminium		ready made	
R-4	yoke	1	aluminium		ready made	
R-5	spinner	1	plastic		ready made	M8
R-6	screw	1	metal		ready made	
R-7	washer	2	plastic		ready made	
R-8	former	1	birch ply	1-1	laser cut	3 mm
R-9	brass sleeve	1	brass		cut part	Ø 4/3 x 62 mm
R-10	servo tray	1	birch ply	1-1	laser cut	3 mm
R-11	wing joiner	1	composite material		cut part	Ø 6 x 255 mm
R-12	torsion rod	1	composite material		cut part	Ø 3 x 125 mm
R-13	fuselage tube	1	composite material		cut part	Ø 10/9 x 690 mm
R-14	reinforcement ring	1	birch ply	1-1	laser cut	3 mm
R-15	battery tray	1	birch ply	1-1	laser cut	3 mm
R-16	canopy	1	GRP		ready made	
R-17	canopy retainer	1	piano wire		cut part	Ø 1,5 x 240 mm
R-18	fabric strip	2	fabric		cut part	100 mm
R-19	fuselage cover	1	GRP		ready made	
R-20	fuselage cover retainer	1	piano wire		cut part	Ø 1,5 x 140 mm
R-21	tailplane support	4	balsa	2-1	laser cut	2 mm
R-22	tailplane support	1	birch ply	1-3	laser cut	1 mm
R-23	magnet	4	magnet		ready made	Ø 8 x 3 mm
R-24	tail skid	1	birch ply	1-2	laser cut	2 mm
R-25	bowden cable	2	plastic		ready made	
R-26	partitioner	1	birch ply	1-3	laser cut	1 mm
R-27	bowden cable	2	piano wire		cut part	0,8 x 1000 mmm
R-28	connector	4	metal		ready made	
R-29	retaining screw/folding prop	2	metal		ready made	
R-30	lock nut	2	metal		ready made	
L-1	tailplane	1	balsa	2-1	laser cut	2 mm
L-2	elevator	2	balsa	2-1 + 2-2	laser cut	2 mm
L-3	brace	2	balsa	2-1	laser cut	2 mm
L-4	brace	2	balsa	2-1	laser cut	2 mm
L-5	brace	2	balsa	2-1	laser cut	2 mm
L-6	brace	2	balsa	2-1	laser cut	2 mm
L-7	brace	2	balsa	2-1	laser cut	2 mm
L-8	brace	2	balsa	2-1	laser cut	2 mm
L-9	sheeting	2	balsa	3-3	laser cut	1 mm
L-10	sheeting	4	balsa	3-1	laser cut	1 mm
L-11	connector	1	spruce		cut part	4 x 4 x 100 mm
L-12	reinforcement	2	birch ply	1-3	laser cut	1 mm
L-13	fin	1	balsa	2-3	laser cut	2 mm
L-14	brace	1	balsa	2-3	laser cut	2 mm
L-15	brace	1	balsa	2-3	laser cut	2 mm
L-16	brace	1	balsa	2-3	laser cut	2 mm
L-17	rudder	1	balsa	2-2	laser cut	2 mm
L-18	brace	1	balsa	2-2	laser cut	2 mm
L-19	brace	1	balsa	2-2	laser cut	2 mm
L-20	brace	1	balsa	2-2	laser cut	2 mm
L-21	sheeting	2	balsa	3-2	laser cut	1 mm
L-22	sheeting	2	balsa	3-4	laser cut	1 mm
L-23	reinforcement	2	birch ply	1-3	laser cut	1 mm
L-24	control horn	2	birch ply	1-2	laser cut	2 mm
L-25	reinforcement	2	balsa		cut part	8 x 8 x 85 mm

Parts list wings „speed"

P q0	Item	Pieces	Material	Laser sheet	Type	Dimensions
VU/23	sheeting	4	balsa	7	laser cut	1 mm
VU/24	spruce spar	4	spruce		cut part	2 x 8 x 1,000 mm
VU/25	main spar	2	light ply	10	laser cut	3 mm
VU/26	wing joiner brace	2	light ply	10	laser cut	3 mm
VU/27	trailing edge sheeting	4	balsa	5	laser cut	1 mm
VU/28	aileron sheeting	4	balsa	5	laser cut	1 mm
VU/29	trailing edge sheeting	4	balsa	7	laser cut	1 mm
VU/2:	root rib	2	light ply	10	laser cut	3 mm
VU/2;	wing rib	2	light ply	10	laser cut	3 mm
VU/32	wing rib	2	light ply	10	laser cut	3 mm
VU/33	wing rib	2	balsa	9	laser cut	2 mm
VU/34	wing rib	2	balsa	9	laser cut	2 mm
VU/35	wing rib	2	balsa	9	laser cut	2 mm
VU/36	wing rib	2	balsa	9	laser cut	2 mm
VU/37	wing rib	2	balsa	9	laser cut	2 mm
VU/38	wing rib	2	balsa	9	laser cut	2 mm
VU/39	wing rib	2	balsa	9	laser cut	2 mm
VU/3:	wing rib	2	balsa	9	laser cut	2 mm
VU/3;	wing rib	2	balsa	9	laser cut	2 mm
VU/42	wing rib	2	balsa	9	laser cut	2 mm
VU/43	wing rib	2	balsa	9	laser cut	2 mm
VU/44	wing rib	2	balsa	9	laser cut	2 mm
VU/45	wing rib	2	balsa	9	laser cut	2 mm
VU/46	wing rib	2	balsa	9	laser cut	2 mm
VU/47	wing rib	2	balsa	9	laser cut	2 mm
VU/48	aileron riblet	2	balsa	9	laser cut	2 mm
VU/49	aileron riblet	2	balsa	9	laser cut	2 mm
VU/4:	aileron spar	2	balsa	8	laser cut	3 mm
VU/4;	aileron leading edge	2	balsa	8	laser cut	3 mm
VU/52	gusset	2	balsa	8	laser cut	3 mm
VU/53	gusset	2	balsa	8	laser cut	3 mm
VU/54	servo tray	2	birch ply	11	laser cut	2 mm
VU/5403	servo tray end stop	2	birch ply	11	laser cut	2 mm
VU/5404	reiniforcement	2	birch ply	11	laser cut	2 mm
VU/5405	servo frame	2	birch ply	11	laser cut	2 mm
VU/5406	servo frame	4	birch ply	11	laser cut	2 mm
VU/55	front root sheeting	4	balsa	4	laser cut	1 mm
VU/56	rear root sheeting	4	balsa	6	laser cut	1 mm
VU/57	wing joiner sleeve	2	brass		cut part	Ø7/6 x 110 mm
VU/5703	wing location sleeve	2	brass		cut part	Ø4/3 x 60 mm
VU/58	false leading edge	2	balsa	8	laser cut	3 mm
VU/59	leading edge	2	balsa	8	laser cut	3 mm
VU/5:	wing tip	6	balsa	8	laser cut	3 mm
VU/5;	aileron leading edge doubler	2	balsa	8	laser cut	3 mm
VU/62	control horn	2	plywood	11	laser cut	1 mm
VU/63	wing locator dowel	1	expoxy		cut part	Ø3 x 120 mm
VU/64	wing retainer	4	magnet		ready made	Ø8 x 3 mm
VU/65	snake	1	piano wire		cut part	Ø 0.8 x 250 mm
VU/68	front magnet support	2	balsa	8	laser cut	3 mm
VU/69	rear magnet support	2	balsa	8	laser cut	3 mm

parts list wings „R.E.S."

P q0	Item	Pieces	Material	Laser sheet	Type	Dimensions
VO/23	sheeting	4	balsa	7	laser cut	1 mm
VO/24	spruce spar	4	spruce		cut part	3 x 8 x 495 mm
VO/25	main spar	2	light ply	10	laser cut	3 mm
VO/26	wing joiner brace	2	light ply	10	laser cut	3 mm
VO/27	wing joiner brace	2	light ply	10	laser cut	3 mm
VO/28	trailing edge sheeting	4	balsa	5	laser cut	1 mm
VO/29	root rib	2	light ply	10	laser cut	3 mm
VO/2:	wing rib (spoiler position)	2	light ply	10	laser cut	3 mm
VO/2;	wing rib (spoiler position)	2	balsa	9	laser cut	2 mm
VO/32	wing rib (spoiler position)	2	balsa	9	laser cut	2 mm
VO/33	wing rib (spoiler position)	2	balsa	9	laser cut	2 mm
VO/34	wing rib (spoiler position)	2	balsa	9	laser cut	2 mm
VO/35	wing rib (spoiler position)	2	balsa	9	laser cut	2 mm
VO/36	wing rib (spoiler position)	2	balsa	9	laser cut	2 mm
VO/37	wing rib	2	balsa	9	laser cut	2 mm
VO/38	wing rib	2	light ply	10	laser cut	3 mm
VO/39	wing rib	2	light ply	10	laser cut	3 mm
VO/3:	spoiler support	4	balsa	8	laser cut	3 mm
VO/3;	spoiler sheeting	2	balsa	5	laser cut	1 mm
VO/42	servo tray	2	ply wood		laser cut	1 mm
VO/43	wing joiner sleeve	2	aluminium		cut part	Ø 7/6 x 125 mm
VO/43Œ	wing locating sleeve	2	brass		cut part	Ø4/3 x 60 mm
VO/44	front root sheeting	8	balsa	4	laser cut	1 mm
VO/45	rear root sheeting	8	balsa	4	laser cut	1 mm
VO/46	false leading edge	2	balsa		cut part	2 x 8 x 495 mm
VO/47	leading edge	2	balsa		cut part	3 x 8 x 495 mm
VO/48	spoiler	2	plywood	11	laser cut	1 mm
VO/49	control horn	2	plywood	10	laser cut	3 mm
VO/4:	wing joiner	6	plywood	11	laser cut	1 mm
VO/4;	wing locating dowel	1	composite material		cut part	Ø 3 x 120 mm
VO/52	wing retainer	4	magnet		ready made	Ø 8 x 3 mm
VO/53	front magnet support	2	balsa	8	laser cut	3 mm
VO/54	rear magnet support	2	balsa	8	laser cut	3 mm
VO/55	M2 screw	2	metal		ready made	M2
VO/56	M2 nut	2	metal		ready made	M2
VT/23	sheeting	4	balsa	6.1	laser cut	1 mm
TR-02	spruce spar	4	spruce		cut part	2 x 8 x 495 mm
TR-03	main spar	2	light ply	10	laser cut	3 mm
TR-04	wing joiner brace	2	light ply	10	laser cut	3 mm
TR-05	trailing egde sheeting	4	balsa	6.3	laser cut	1 mm
TR-06	root rib	2	light ply	10	laser cut	3 mm
TR-07	wing rib	2	light ply	10	laser cut	3 mm
TR-08	wing rib	2	balsa	9	laser cut	2 mm
TR-09	wing rib	2	balsa	9	laser cut	2 mm
TR-10	wing rib	2	balsa	9	laser cut	2 mm
TR-11	wing rib	2	balsa	9	laser cut	2 mm
TR-12	wing rib	2	balsa	9	laser cut	2 mm
TR-13	wing rib	2	balsa	9	laser cut	2 mm
TR-14	wing rib	2	balsa	9	laser cut	2 mm
TR-15	wing rib	2	balsa	4	laser cut	2 mm
TR-16	front root sheeting	4	balsa	6.2	laser cut	1 mm
TR-17	rear root sheeting	4	balsa	6.2	laser cut	1 mm
TR-18	false leading edge	2	balsa		cut part	2 x 8 x 495 mm
TR-19	leading edge	2	balsa		cut part	3 x 8 x 495 mm
TR-20	wing tip	6	balsa	8	laser cut	3 mm
H-01	wing jig centre section	1	depron		laser cut	3 mm
H-02	wing jig outer wing panel	1	depron		laser cut	3 mm

parts list wings „thermic"

P q0	Item	Pieces	Material	Laser sheet	Type	Dimensions
VO723	sheeting	4	balsa	7	laser cut	1 mm
VO724	spruce spar	4	spruce		cut part	3 x 8 x 495 mm
VO725	main spar	2	light ply	12	laser cut	3 mm
VO726	wing joiner brace	2	light ply	12	laser cut	3 mm
VO727	wing joiner brace	2	light ply	12	laser cut	3 mm
VO728	trailing edge sheeting	4	balsa	6	laser cut	1 mm
VO729	root rib	2	light ply	12	laser cut	3 mm
VO72:	wing rib (spoiler position)	2	light ply	12	laser cut	3 mm
VO72;	wing rib (spoiler position)	2	balsa	11.1	laser cut	2 mm
VO732	wing rib (spoiler position)	2	balsa	11.1	laser cut	2 mm
VO733	wing rib (spoiler position)	2	balsa	11.1	laser cut	2 mm
VO734	wing rib (spoiler position)	2	balsa	11.1	laser cut	2 mm
VO735	wing rib (spoiler position)	2	balsa	11.1	laser cut	2 mm
VO736	wing rib (spoiler position)	2	balsa	11.1	laser cut	2 mm
VO737	wing rib	2	balsa	11.1	laser cut	2 mm
VO738	wing rib	2	light ply	12	laser cut	3 mm
VO739	wing rib	2	light ply	12	laser cut	3 mm
VO73:	spoiler support	4	balsa	10	laser cut	3 mm
VO73;	spoiler sheeting	2	balsa	5	laser cut	1 mm
VO742	servo tray	2	ply wood		laser cut	1 mm
VO743	wing joiner sleeve	2	brass		cut part	Ø 7/6 x 110 mm
VO743Ø8	wing locating sleeve	2	brass		cut part	Ø4/3 x 60 mm
VO744	front root sheeting	8	balsa	4.1	laser cut	1 mm
VO745	rear root sheeting	8	balsa	4.2	laser cut	1 mm
VO746	false leading edge	2	balsa		cut part	2 x 8 x 495 mm
VO747	leading edge	2	balsa		cut part	3 x 8 x 495 mm
VO748	spoiler	2	plywood	9	laser cut	1 mm
VO749	control horn	2	plywood	12	laser cut	3 mm
VO74:	wing joiner	6	plywood	9	laser cut	1 mm
VO74;	wing locating dowel	1	composite material		cut part	Ø 3 x 120 mm
VO752	wing retainer	4	magnet		ready made	Ø 8 x 3 mm
VO753	front magnet support	2	balsa	10	laser cut	3 mm
VO754	rear magnet support	2	balsa	10	laser cut	3 mm
VO755	M2 screw	2	metal		ready made	M2
VO756	M2 nut	2	metal		ready made	M2
VW23	sheeting	4	balsa	8.1	laser cut	1 mm
VW24	spruce spar	4	spruce		cut part	2 x 8 x 750 mm
VW25	main spar	2	light ply	12	laser cut	3 mm
VW26	wing joiner brace	2	light ply	12	laser cut	3 mm
VW27	trailing edge sheeting	4	balsa	8.1	laser cut	1 mm
VW28	aileron sheeting	4	balsa	6	laser cut	1 mm
VW29	trailing edge sheeting	4	balsa	6	laser cut	1 mm
VW2:	root rib	2	light ply	12	laser cut	3 mm
VW2;	wing rib	2	light ply	12	laser cut	3 mm
VW32	wing rib	2	balsa	11.1	laser cut	2 mm
VW33	wing rib	2	balsa	11.1	laser cut	2 mm
VW34	wing rib	2	balsa	11.1	laser cut	2 mm
VW35	wing rib	2	balsa	11.1	laser cut	2 mm
VW36	wing rib	2	balsa	11.1	laser cut	2 mm
VW37	wing rib	2	balsa	11.2	laser cut	2 mm
VW38	wing rib	2	balsa	11.2	laser cut	2 mm
VW39	wing rib	2	balsa	11.2	laser cut	2 mm
VW3:	wing rib	2	balsa	11.2	laser cut	2 mm
VW3;	wing rib	2	balsa	11.2	laser cut	2 mm
VW42	wing rib	2	balsa	11.2	laser cut	2 mm
VW43	wing rib	2	balsa	11.2	laser cut	2 mm
VW44	wing rib	2	balsa	11.2	laser cut	2 mm
VW45	wing rib	2	balsa	11.2	laser cut	2 mm
VW46	aileron riblet	2	balsa	11.1	laser cut	2 mm
VW47	aileron riblet	2	balsa	11.2	laser cut	2 mm
VW48	aileron spar	2	balsa	10	laser cut	3 mm
VW49	aileron leading edge	2	balsa	10	laser cut	3 mm
VW4:	gusset	2	balsa	10	laser cut	3 mm
VW4;	gusset	2	balsa	10	laser cut	3 mm
VW52	servo tray	2	birch ply	16	laser cut	2 mm
VW5203	servo tray end stop	2	birch ply	16	laser cut	2 mm
VW5204	reinforcement	2	birch ply	16	laser cut	2 mm
VW5205	servo frame	2	birch ply	16	laser cut	2 mm
VW5206	servo frame	4	birch ply	16	laser cut	2 mm
VW53	front root sheeting	4	balsa	8.2	laser cut	1 mm
VW54	rear root sheeting	4	balsa	8.2	laser cut	1 mm
VW55	false leading edge	2	balsa		cut part	2 x 8 x 750 mm
VW56	leading edge	2	balsa		cut part	3 x 8 x 750 mm
VW57	wing tip	6	balsa	10	laser cut	3 mm
VW58	aileron leading edge doubler	2	balsa	10	laser cut	3 mm
VW59	control horn	2	plywood	9	laser cut	1 mm
VW5:	aileron pushrod	1	piano wire		cut part	Ø 0.8 x 250 mm
J /23	wing jig centre section	1	depron		laser cut	3 mm
J /24	wing jig outer wing panel	1	depron		laser cut	3 mm

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