



Alexander Schleicher

ASK13

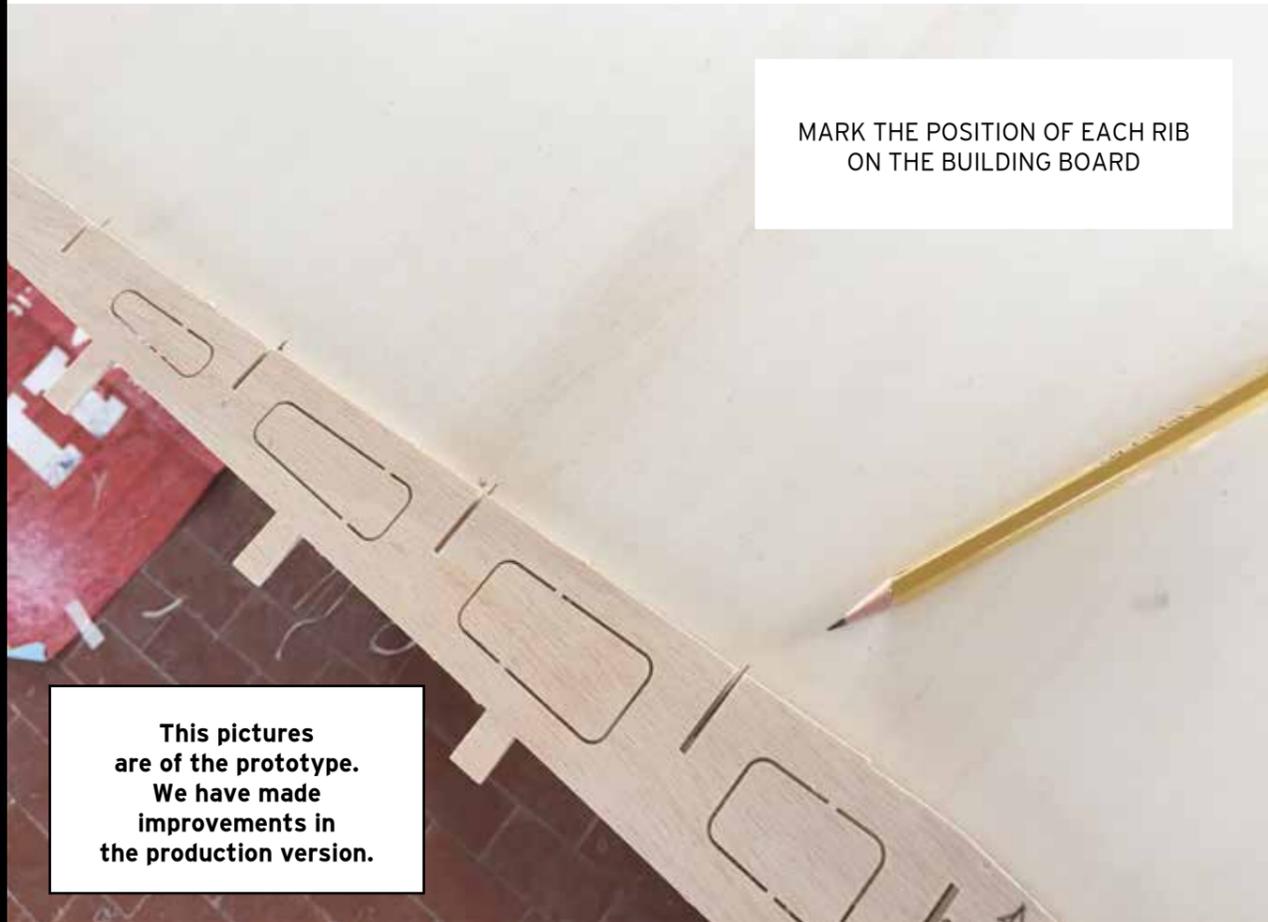
1/2.8 (35.7%) scale RC

1 S t . B A T C H

TAILPLANES

P H O T O B U I L D I N G M A N U A L





MARK THE POSITION OF EACH RIB ON THE BUILDING BOARD

This pictures are of the prototype. We have made improvements in the production version.



NAIL A 10x10 MM STRIP OF WOOD AT 3 MM FROM THE BOARD EDGE

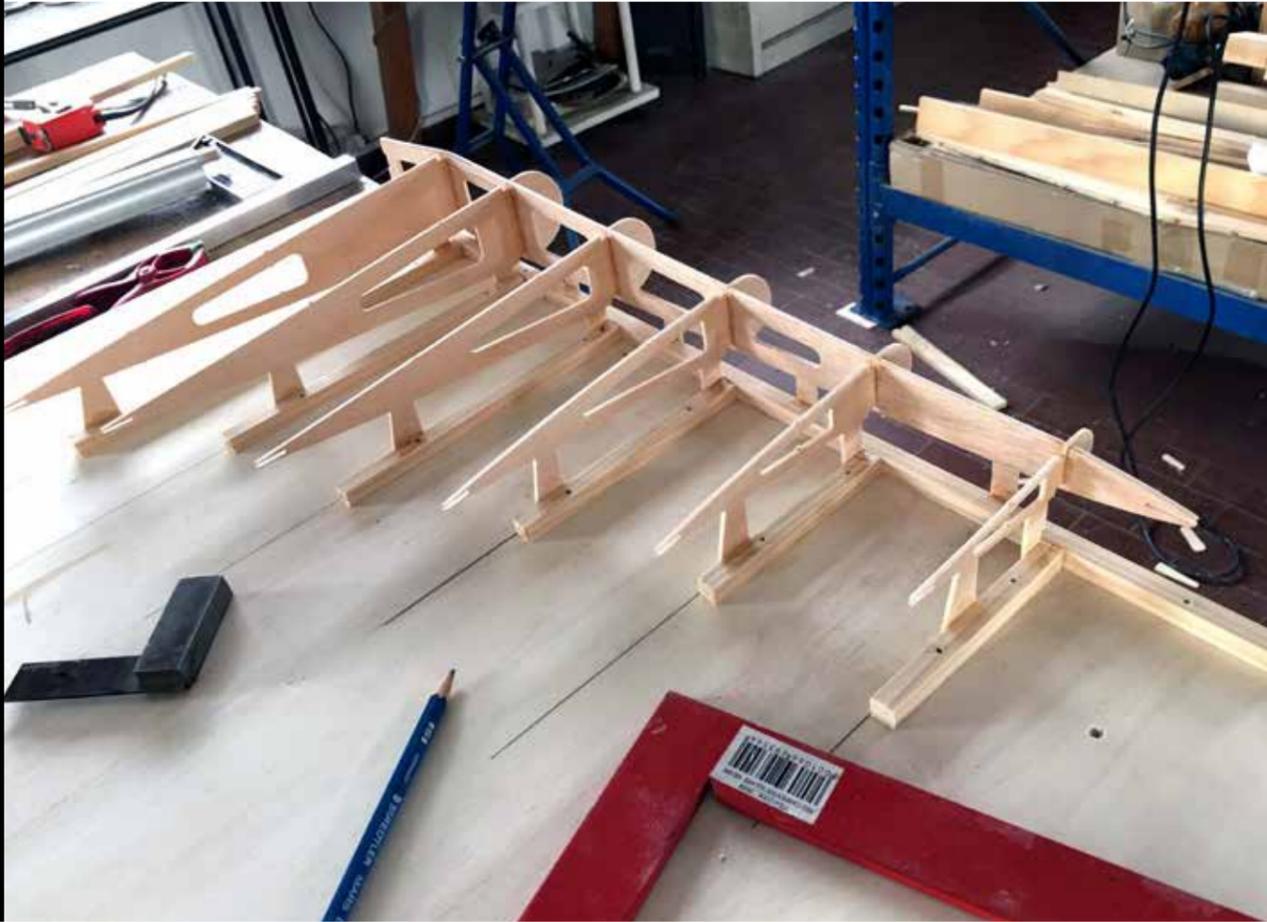


DRAW A LINE PERPENDICULAR TO THE BOARD EDGE



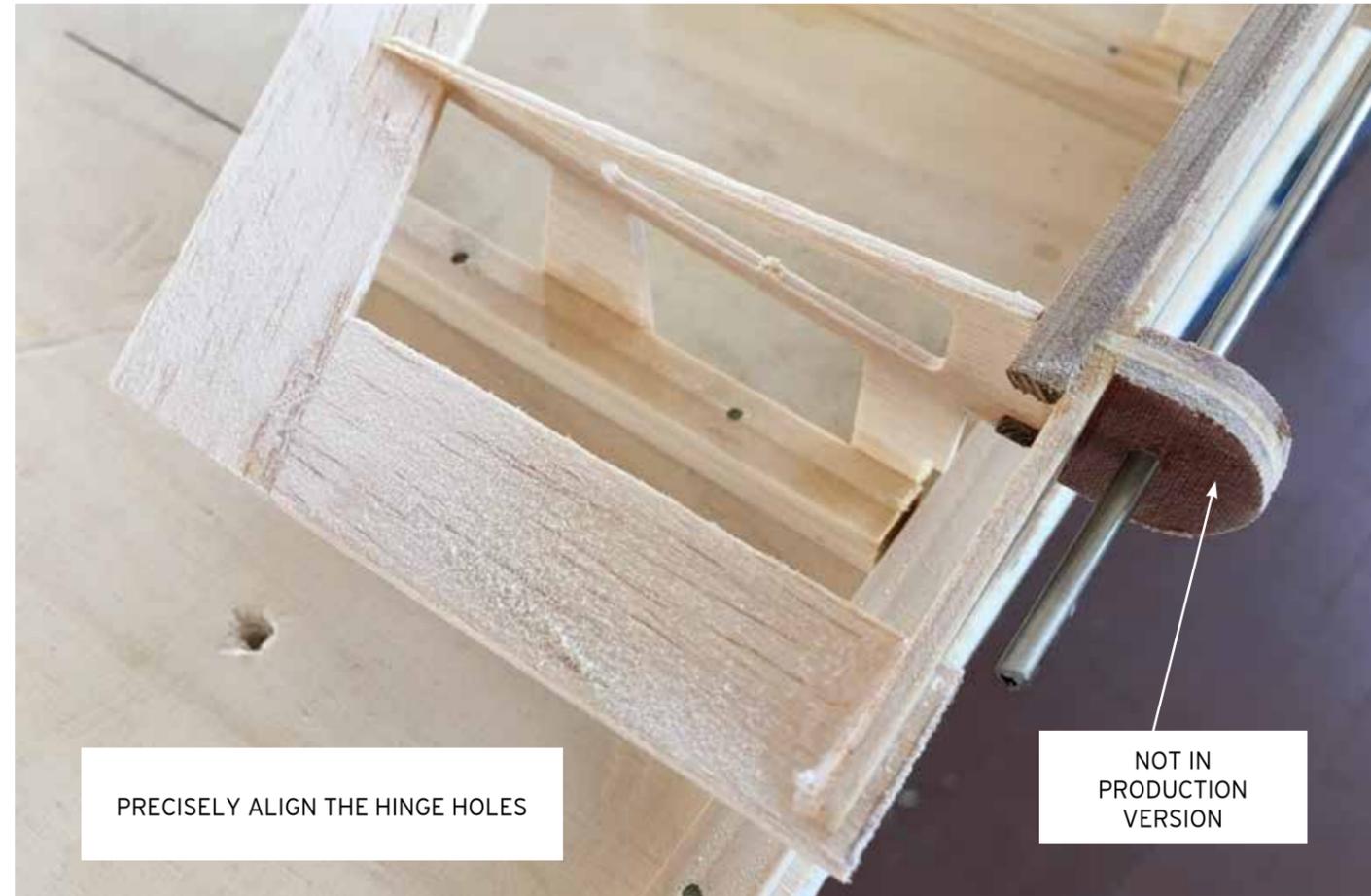
CLAMP THE RUDDER FRAME TO THE STRIP







CUT AND SAND THE TABS FROM THE FRAME



PRECISELY ALIGN THE HINGE HOLES

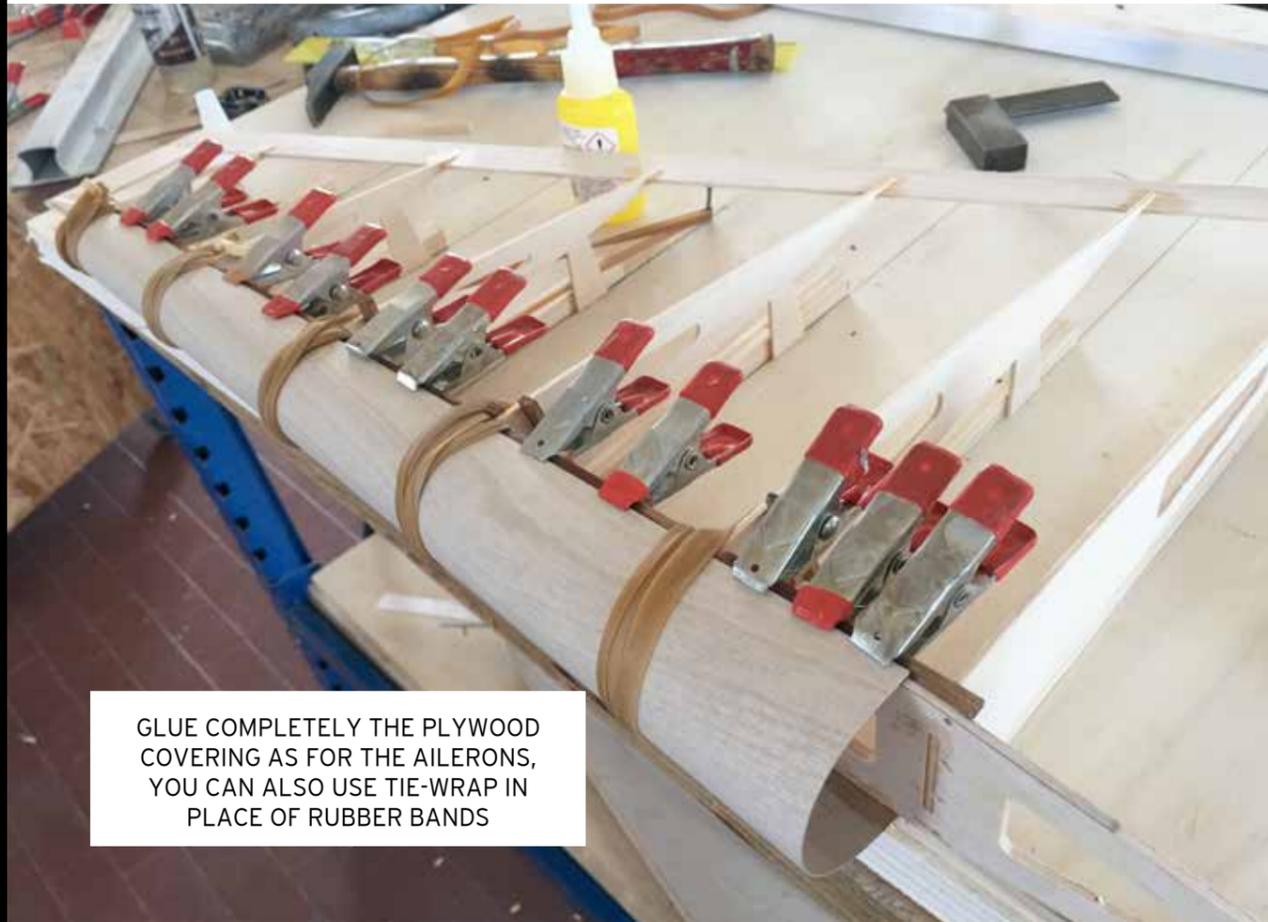
NOT IN PRODUCTION VERSION



GLUE THE Balsa TRAILING EDGE AND THE TUFNOL NOSE



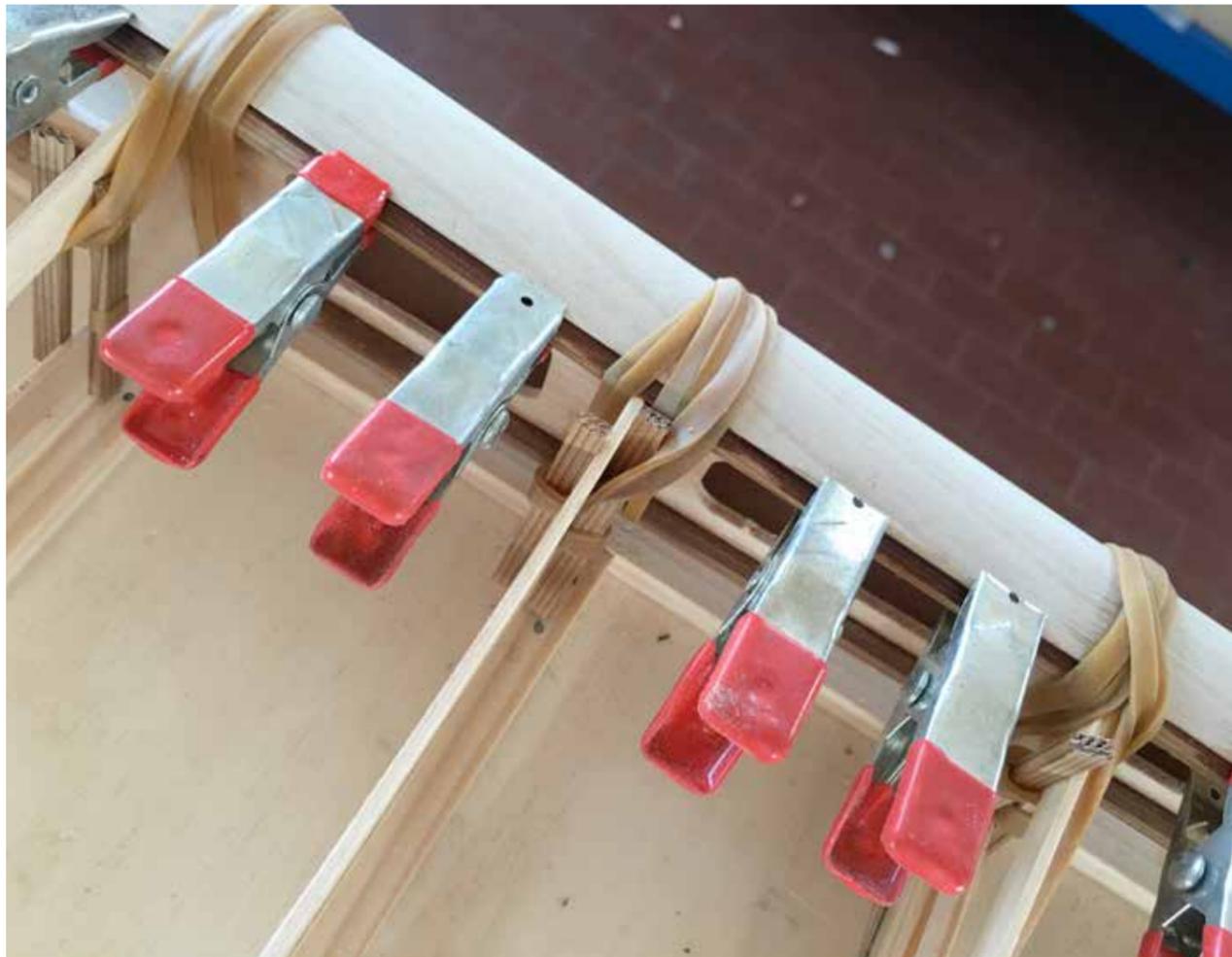
GLUE THE PLYWOOD COVERING UNDER THE RIGHT SPAR

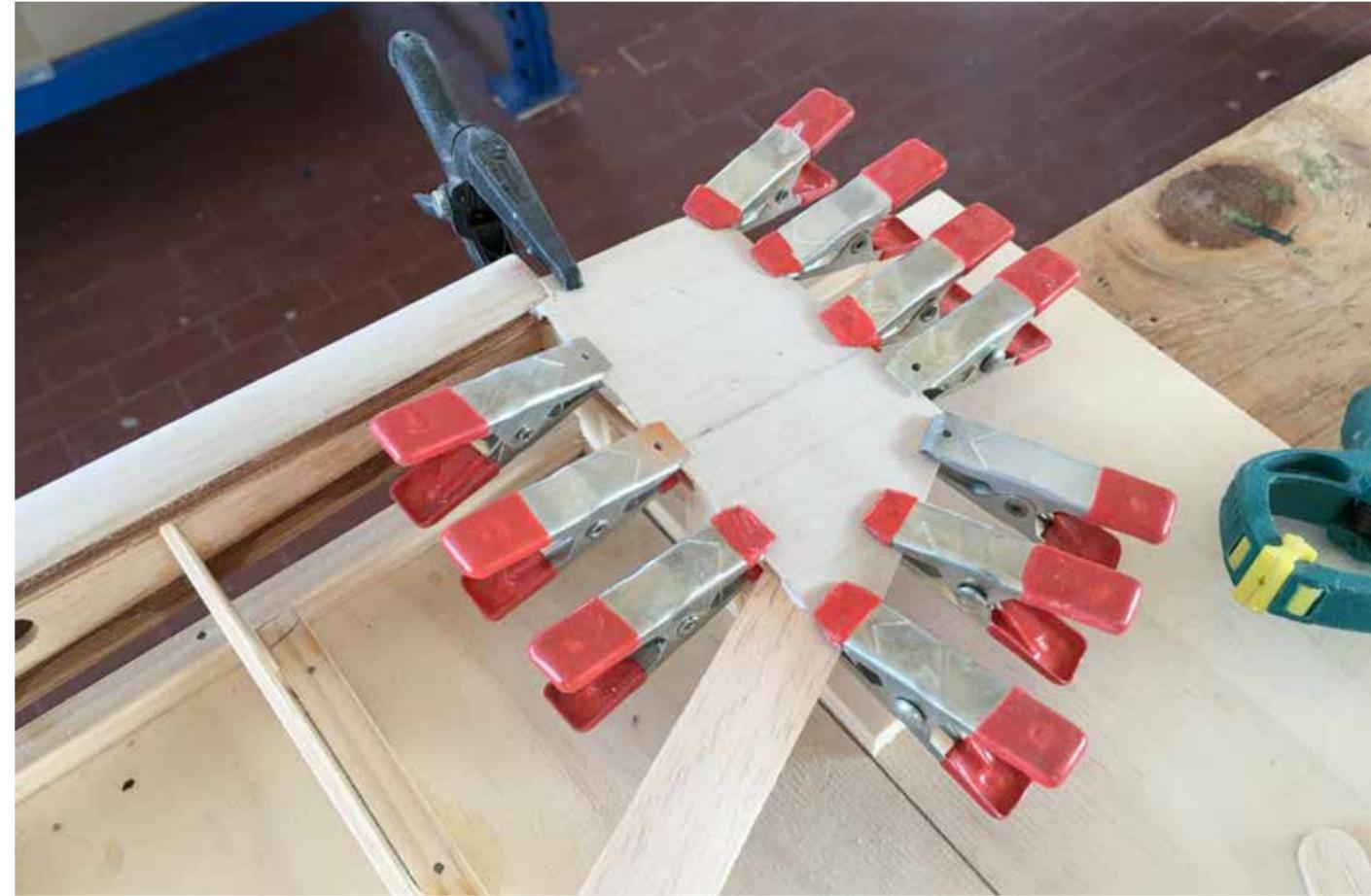


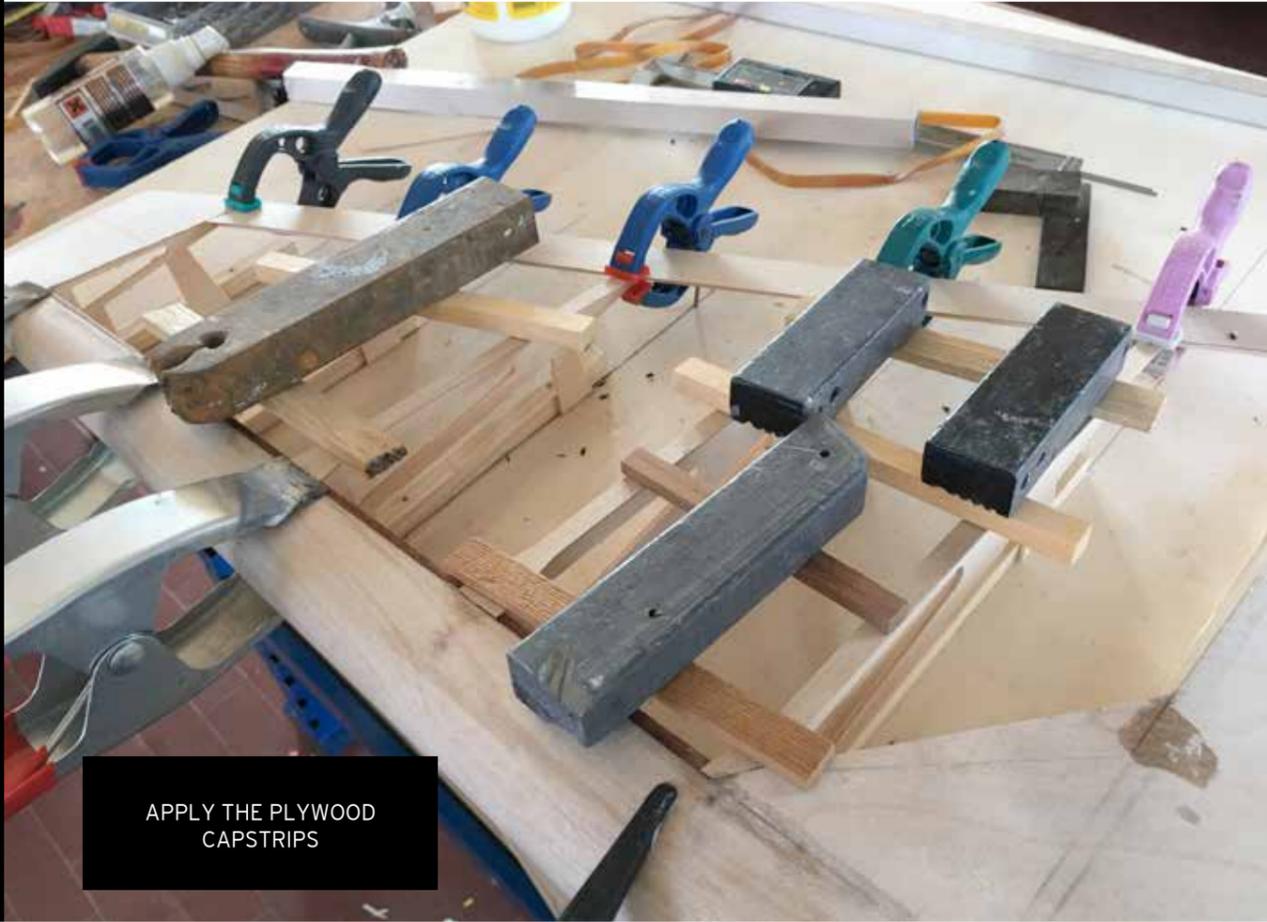
GLUE COMPLETELY THE PLYWOOD COVERING AS FOR THE AILERONS, YOU CAN ALSO USE TIE-WRAP IN PLACE OF RUBBER BANDS



PLACE A 36 MM WIDE STRIP UNDER THE TRAILING EDGE FOR SUPPORT AND SAND THE Balsa TRAILING EDGE









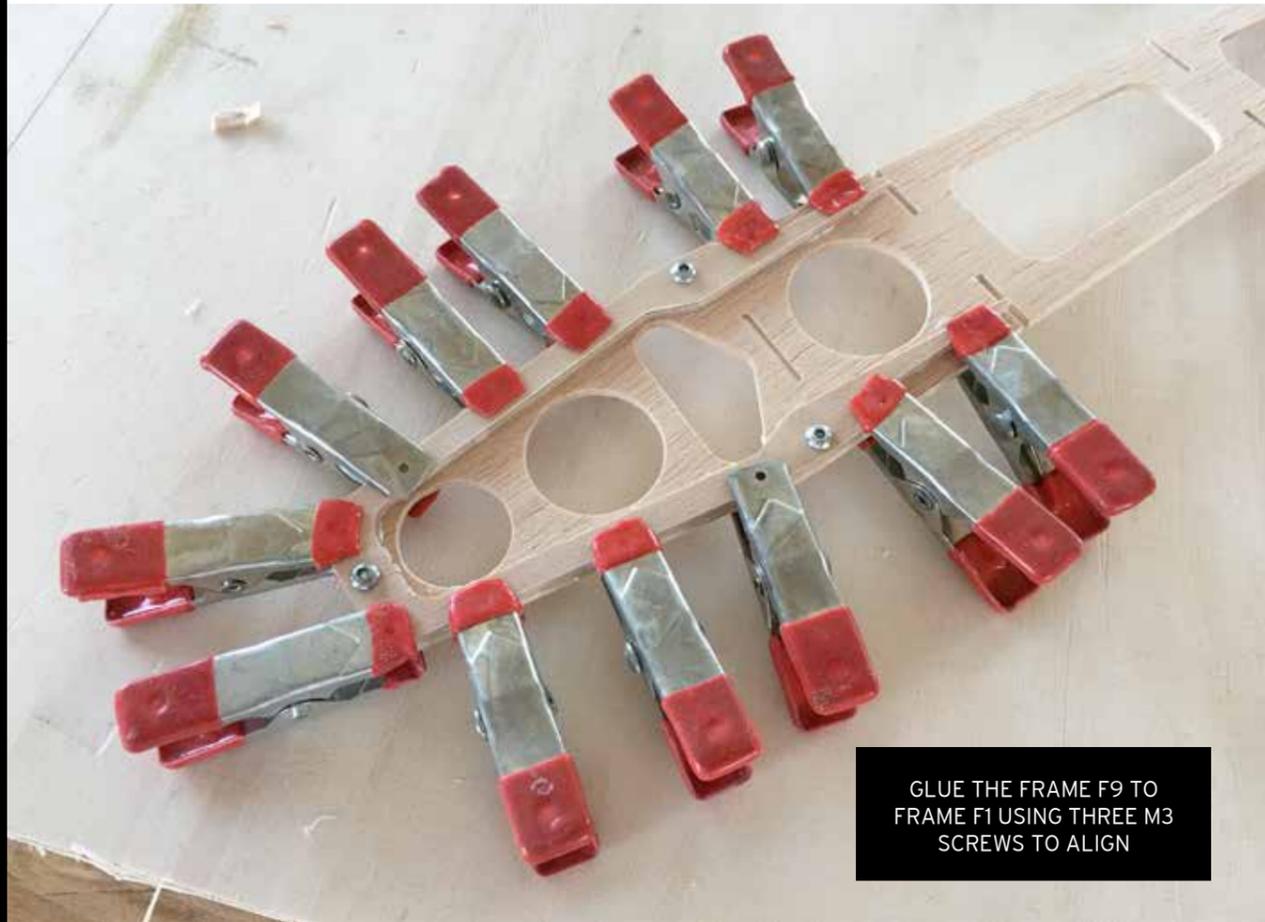
2 MM PLYWOOD SCRAP



2 MM PLYWOOD SCRAP

REMOVE THE BELLCRANK AND MOUNT AFTER COVERING





GLUE THE FRAME F9 TO
FRAME F1 USING THREE M3
SCREWS TO ALIGN



GLUE THE TUFNOL HINGE
TO THE FRAME F1



AS FOR THE RUDDER, USE
THE FRAME F1 TO MARK
THE RIBS POSITION AND
NAIL SOME STRIPS 10 x 10
TO THE BUILDING BOARD,
THEN CLAMP THE RIBS TO
THE STRIPS



APPLY THE REAR
REINFORCEMET

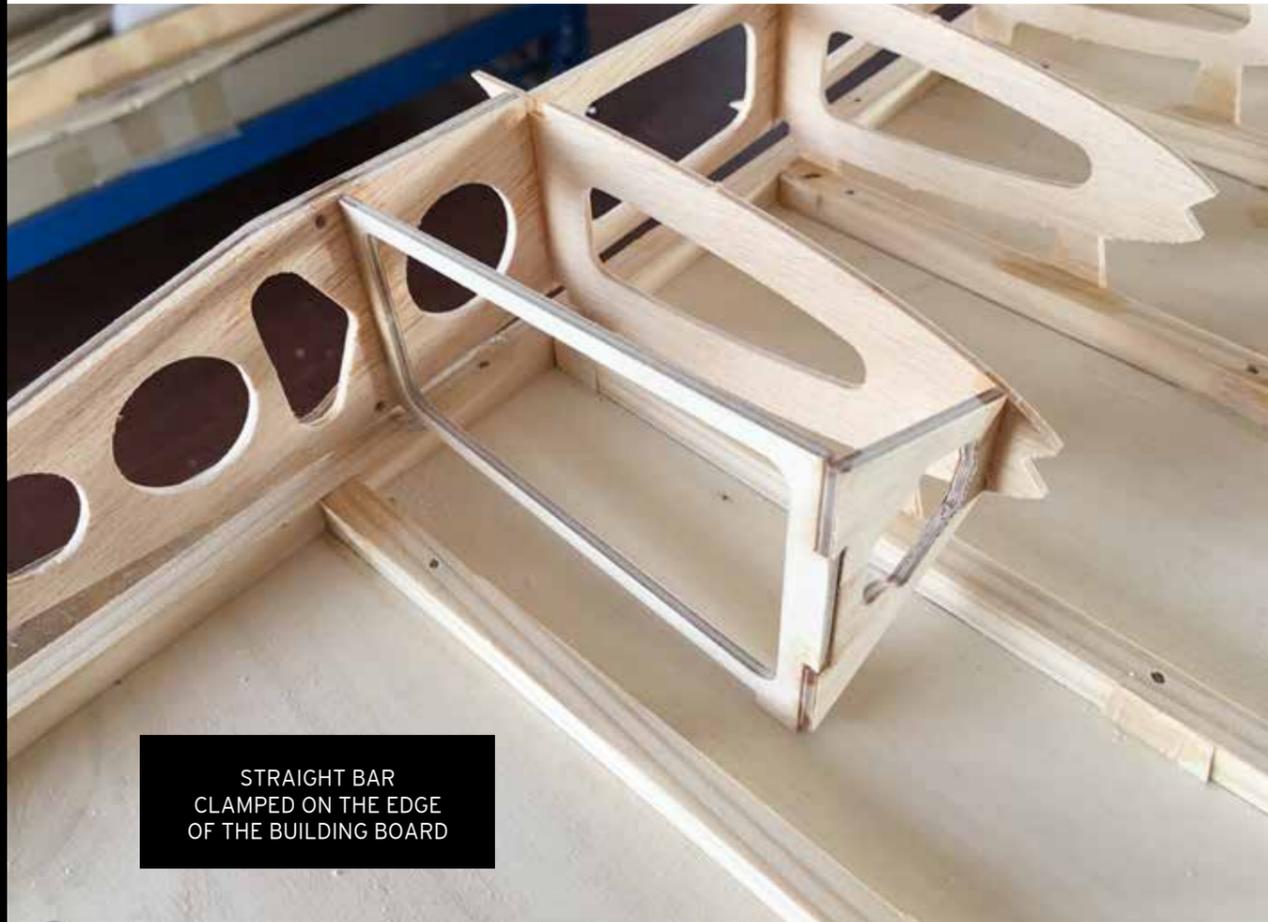


GLUE THE RIBS TO THE STRIPS WITH CYANO

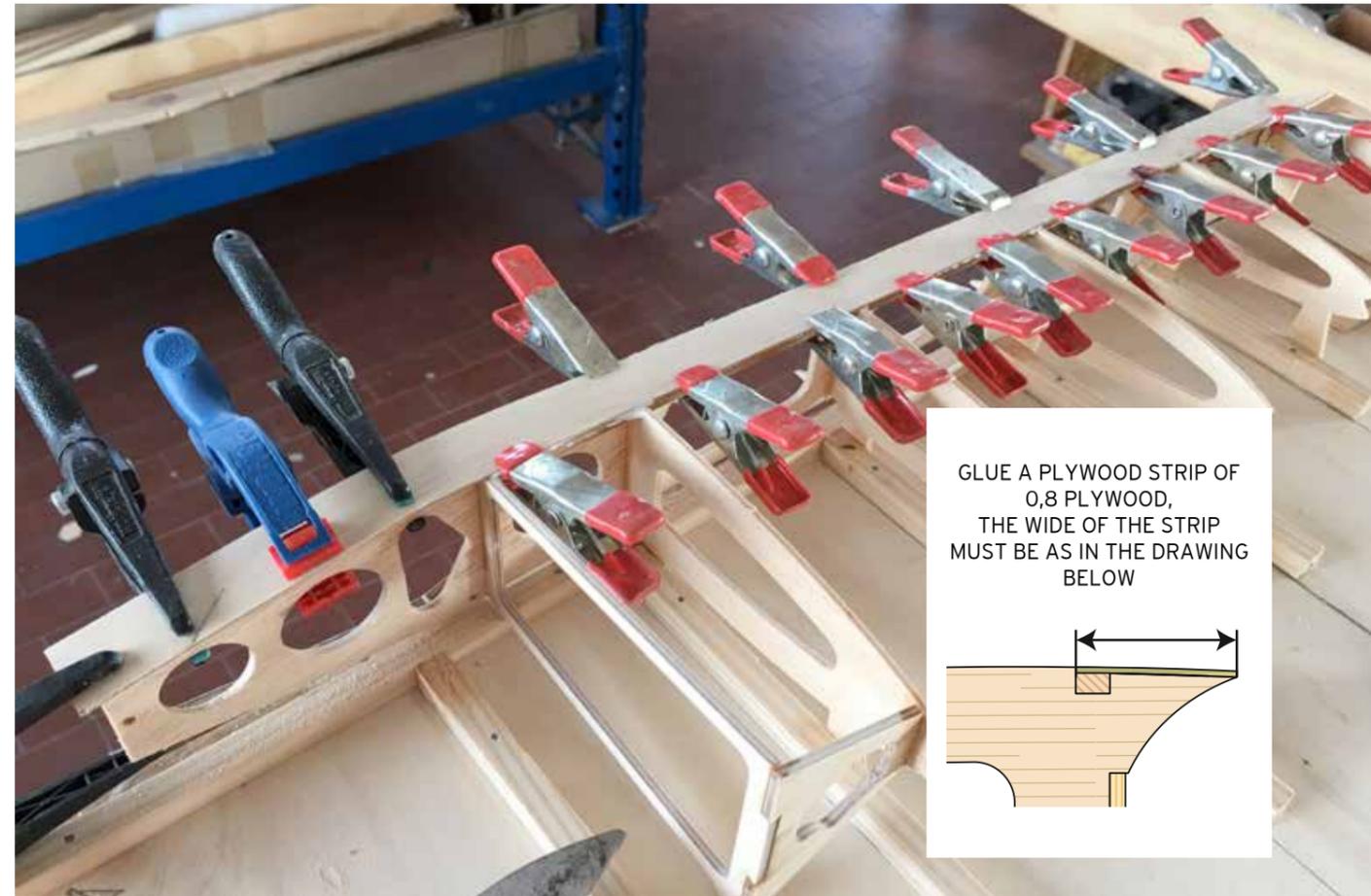


INSERT THE FRAME F1 ON THE RIBS AND GLUE WITH CYANO

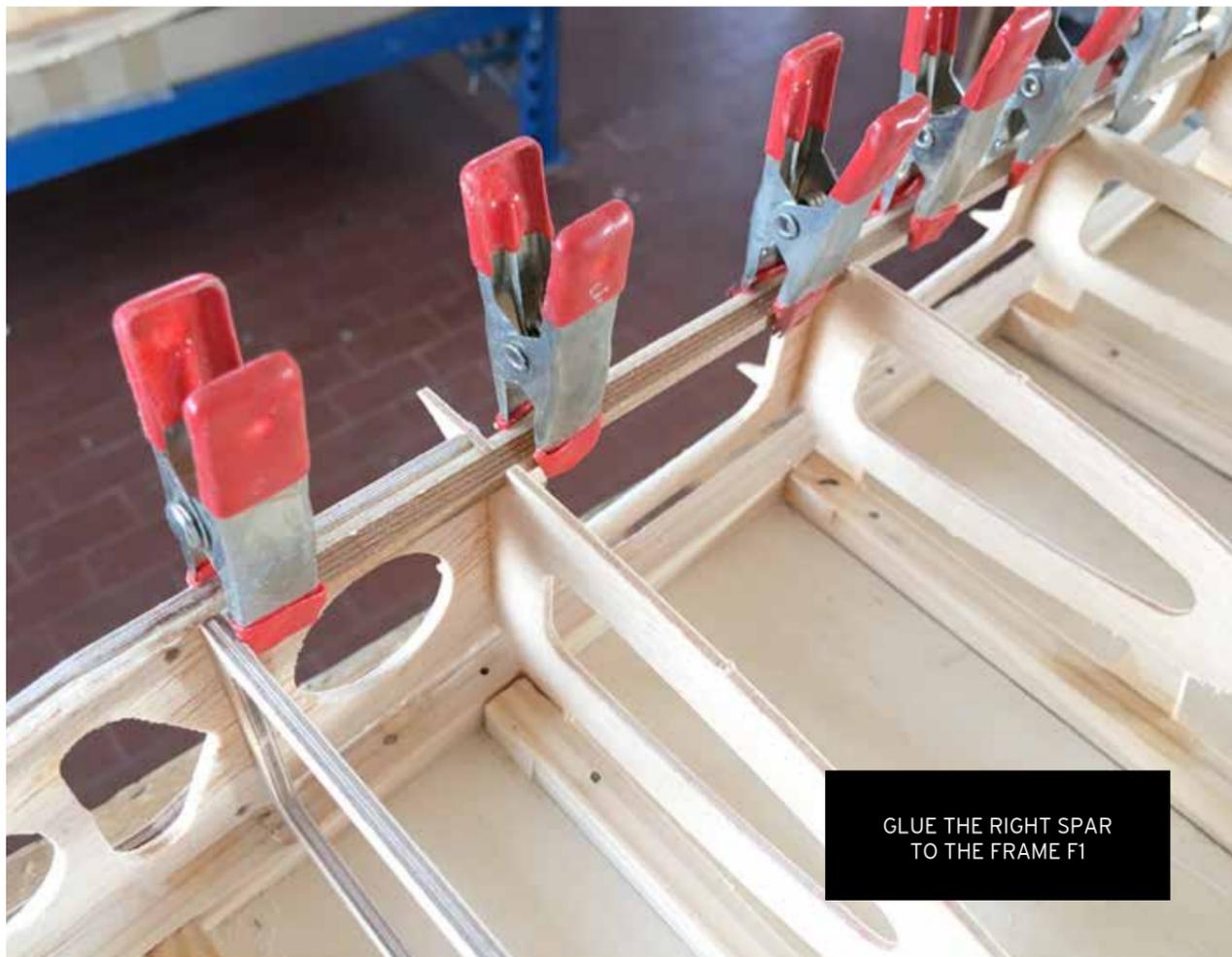
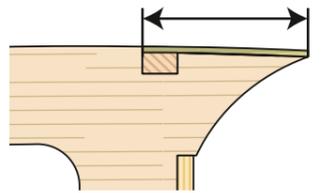




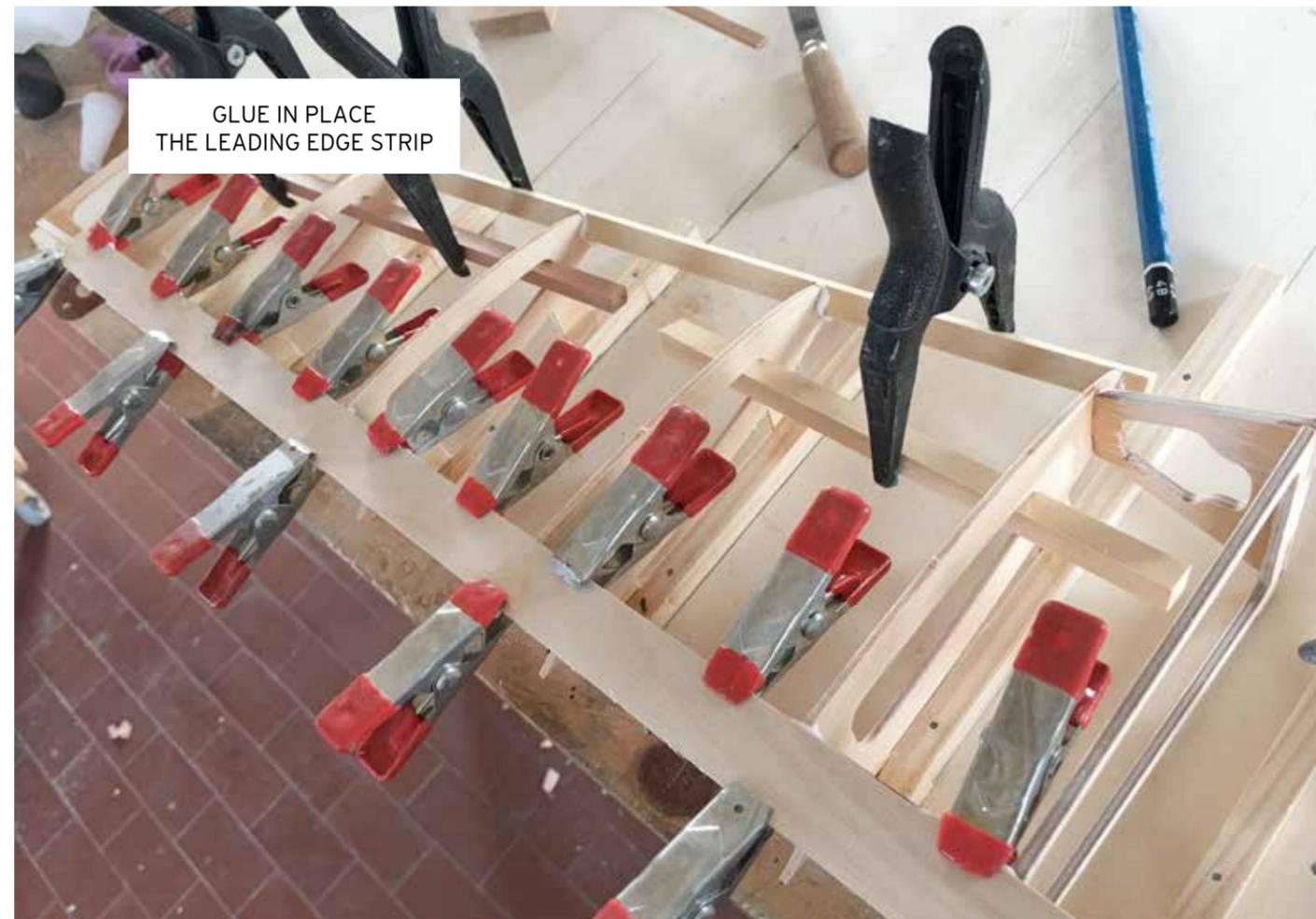
STRAIGHT BAR
CLAMPED ON THE EDGE
OF THE BUILDING BOARD



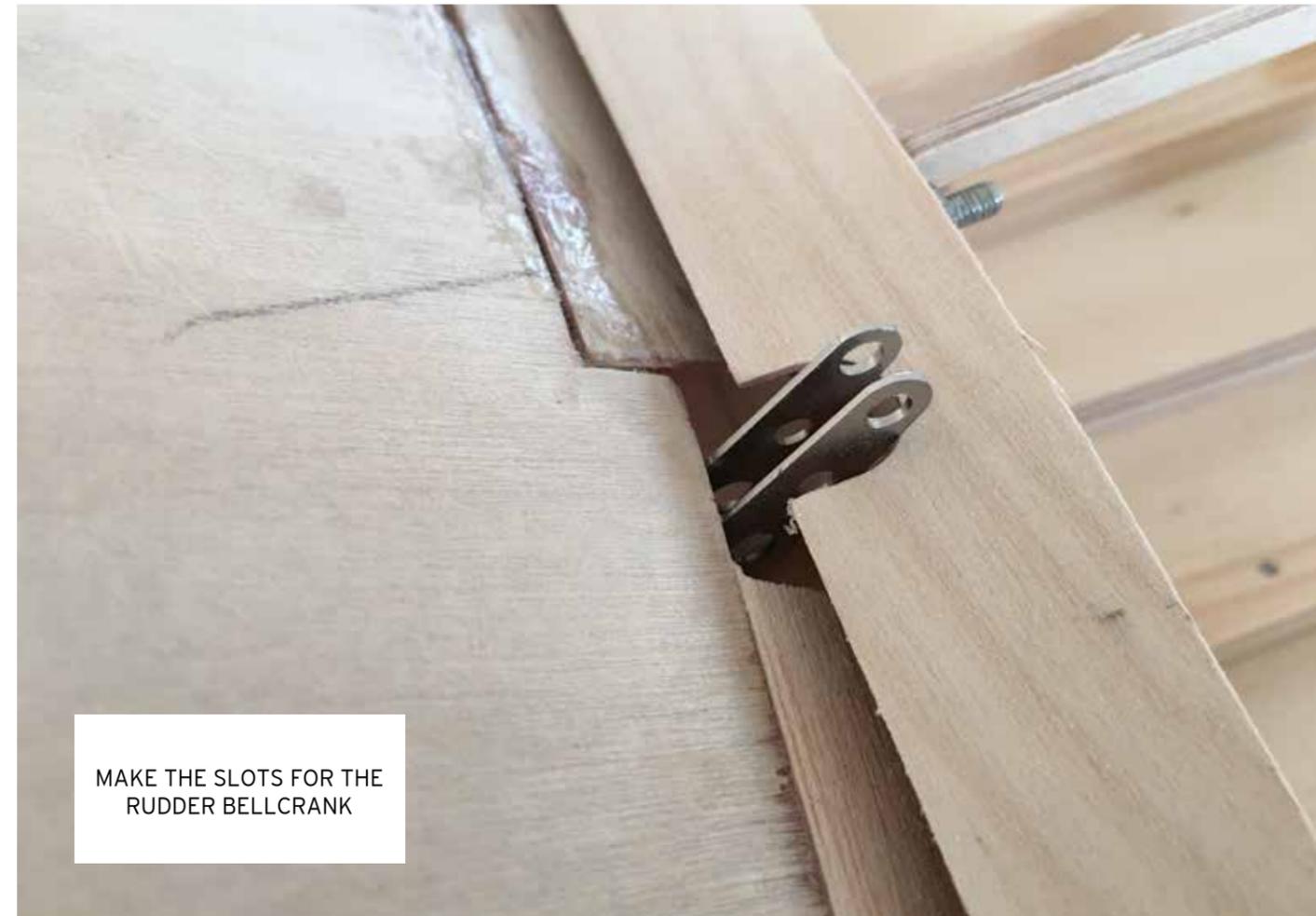
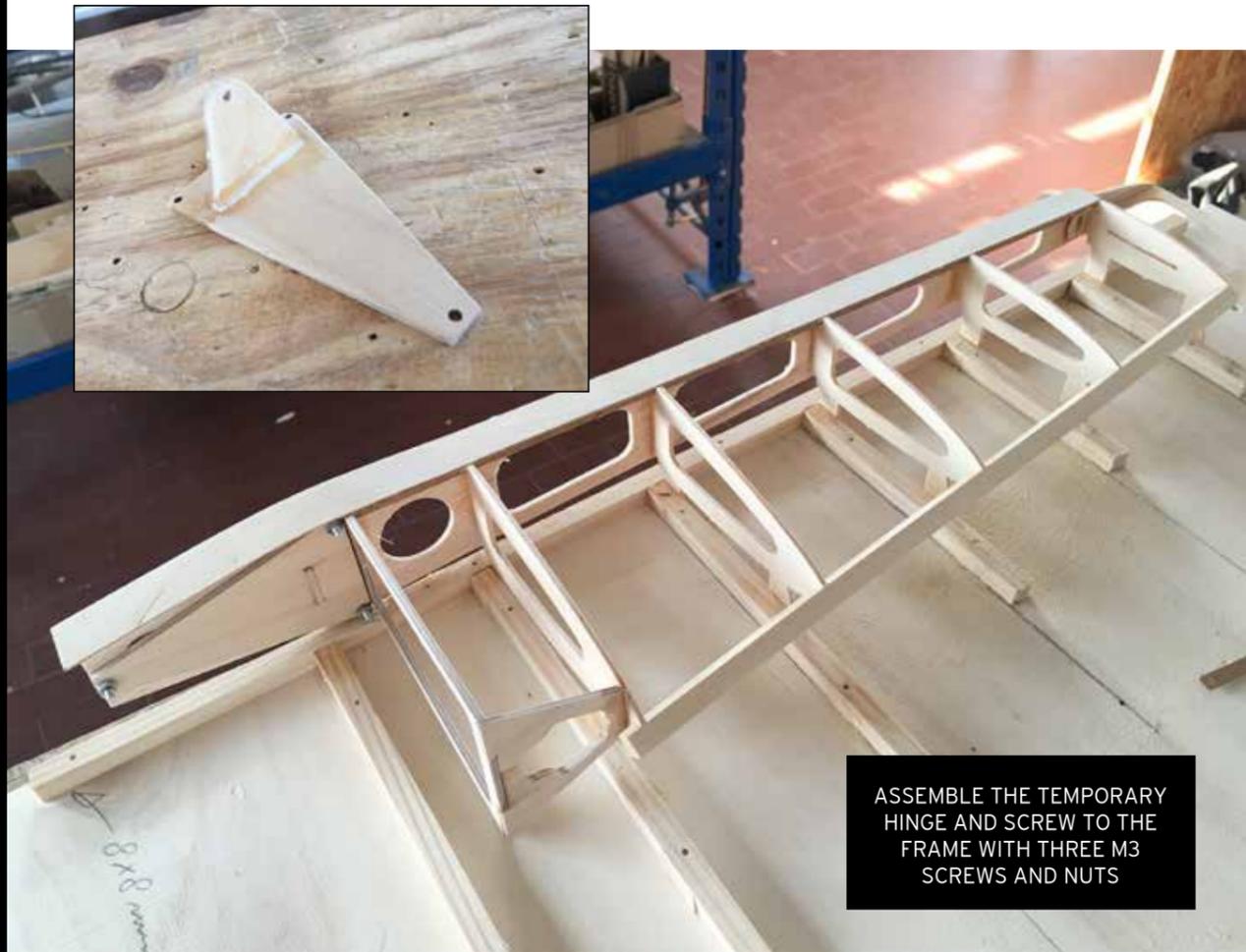
GLUE A PLYWOOD STRIP OF
0,8 PLYWOOD,
THE WIDE OF THE STRIP
MUST BE AS IN THE DRAWING
BELOW



GLUE THE RIGHT SPAR
TO THE FRAME F1

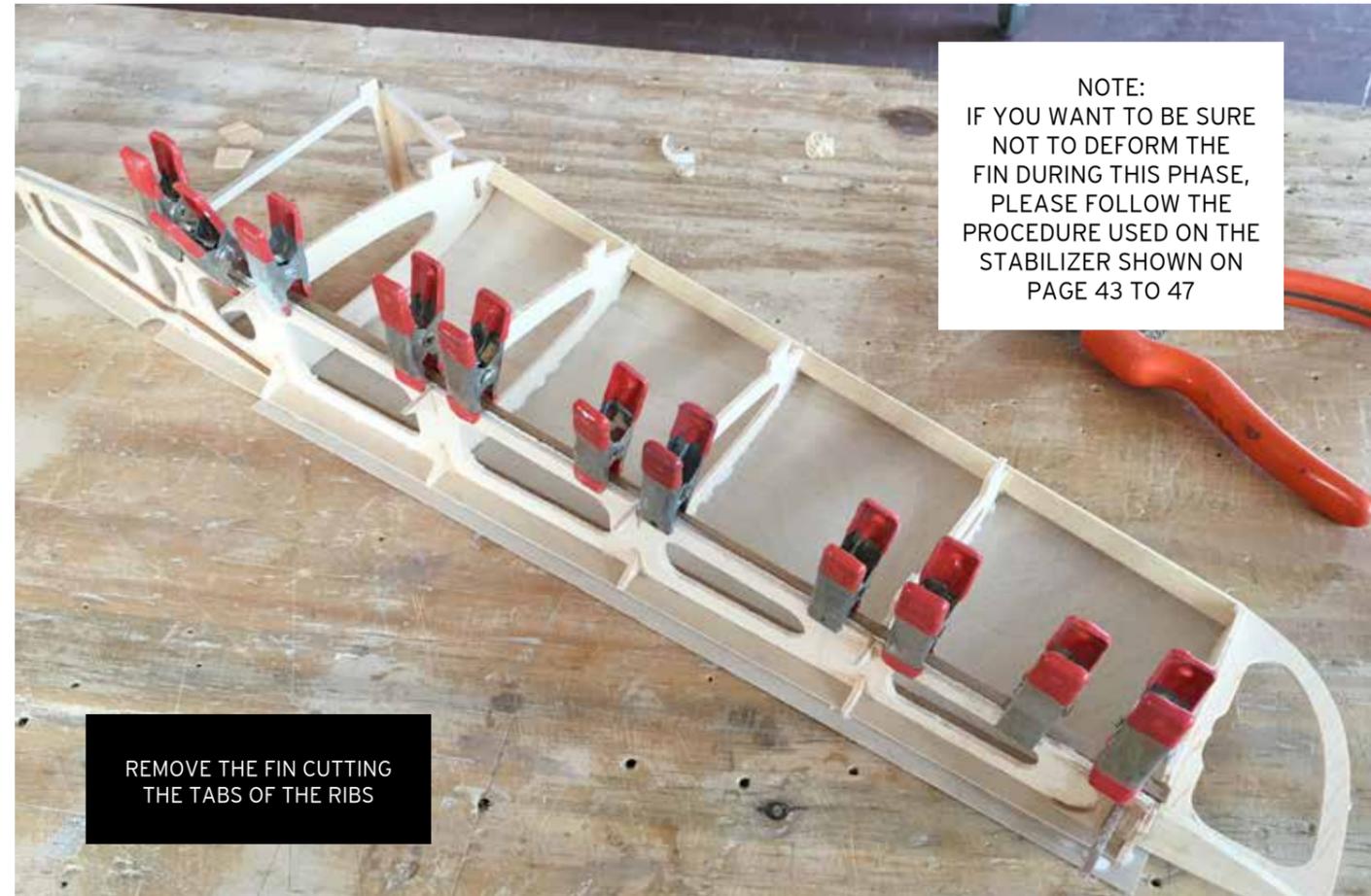


GLUE IN PLACE
THE LEADING EDGE STRIP



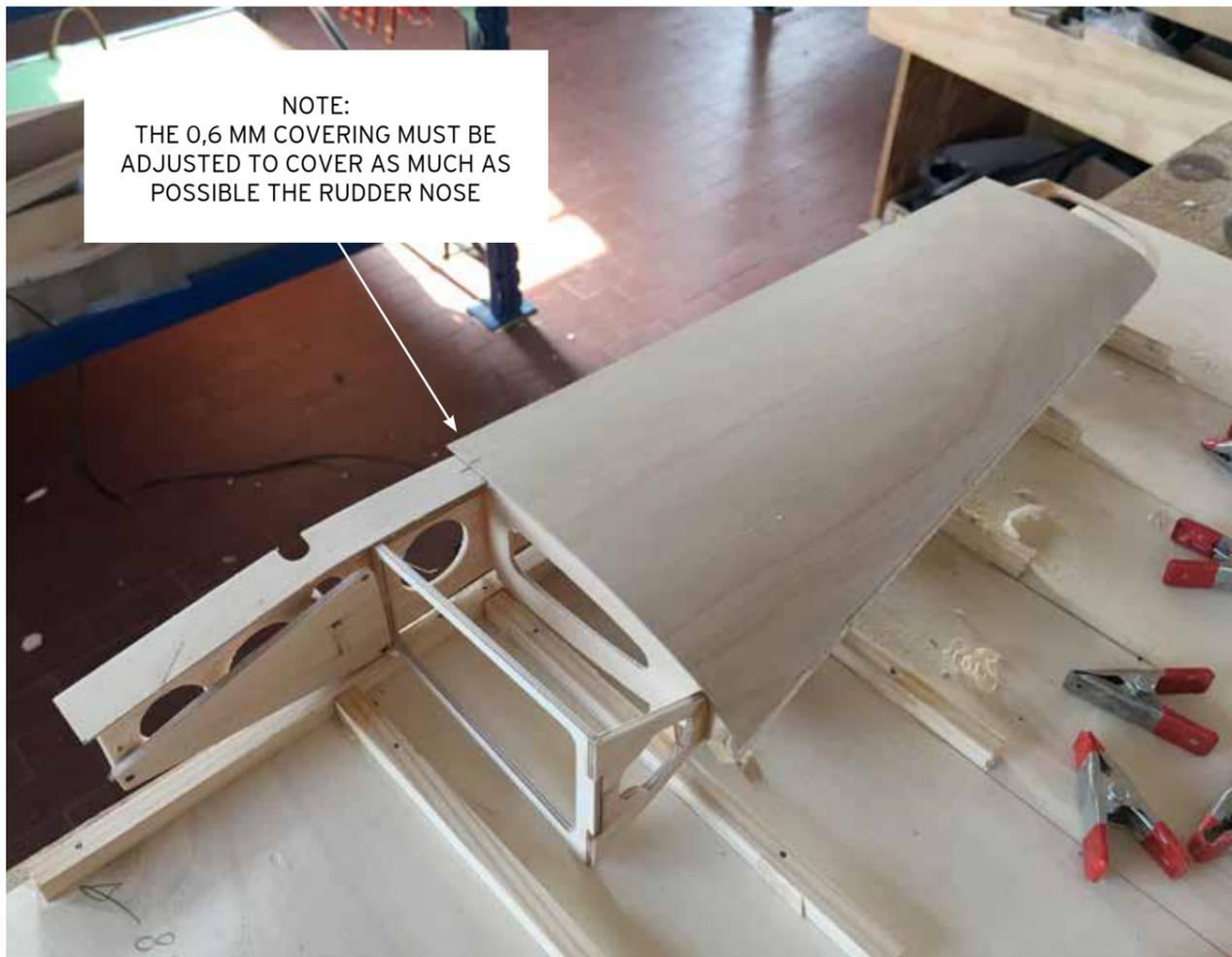


COVER WITH 0,6 MM
PLYWOOD



REMOVE THE FIN CUTTING
THE TABS OF THE RIBS

NOTE:
IF YOU WANT TO BE SURE
NOT TO DEFORM THE
FIN DURING THIS PHASE,
PLEASE FOLLOW THE
PROCEDURE USED ON THE
STABILIZER SHOWN ON
PAGE 43 TO 47



NOTE:
THE 0,6 MM COVERING MUST BE
ADJUSTED TO COVER AS MUCH AS
POSSIBLE THE RUDDER NOSE







TAPER THE EDGE OF A 0,8
MM PLYWOOD SHEET...



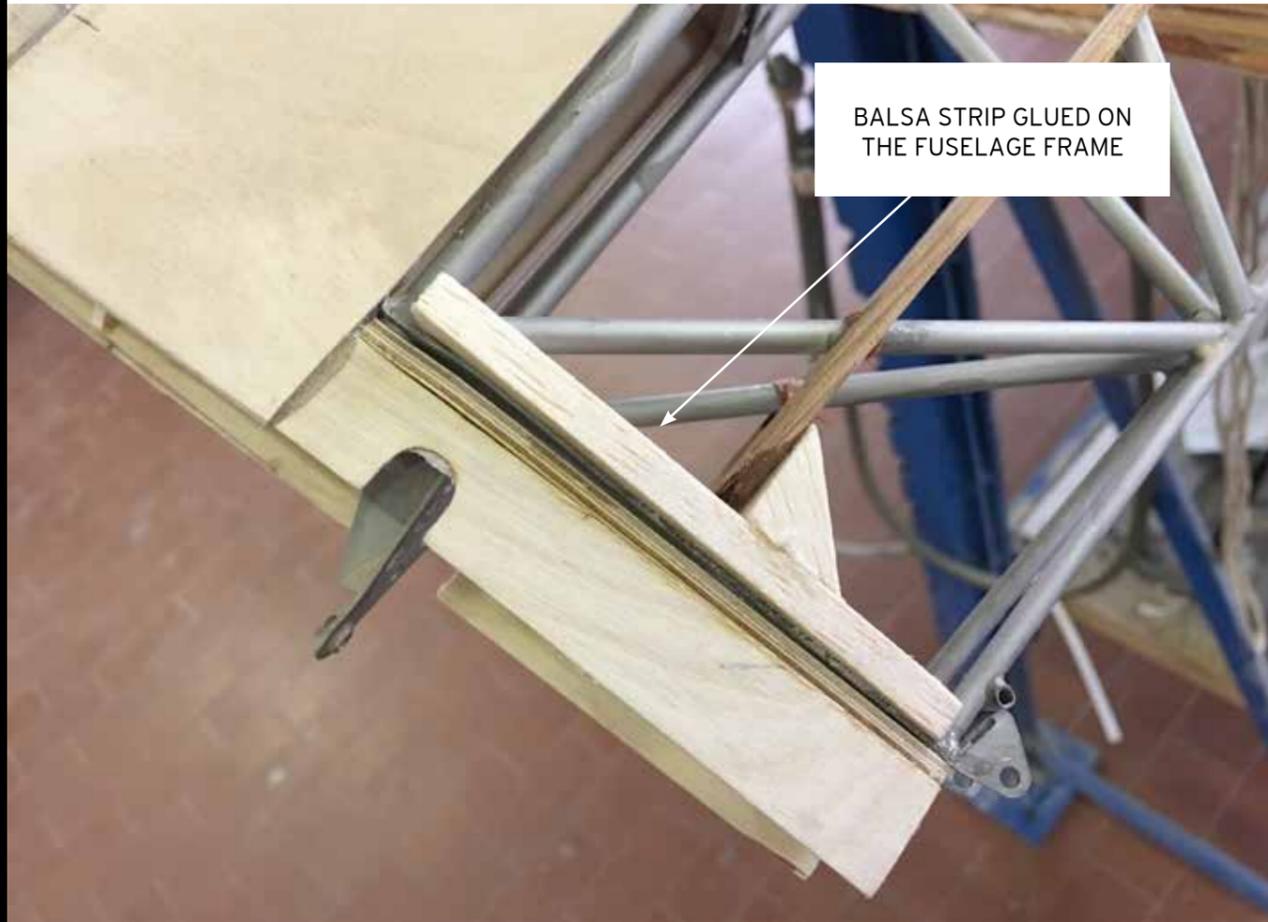
NOTE: DURING THIS GLUING
BE SURE THAT THE FIN IS
PERFECTLY ALIGNED WITH
THE FUSELAGE



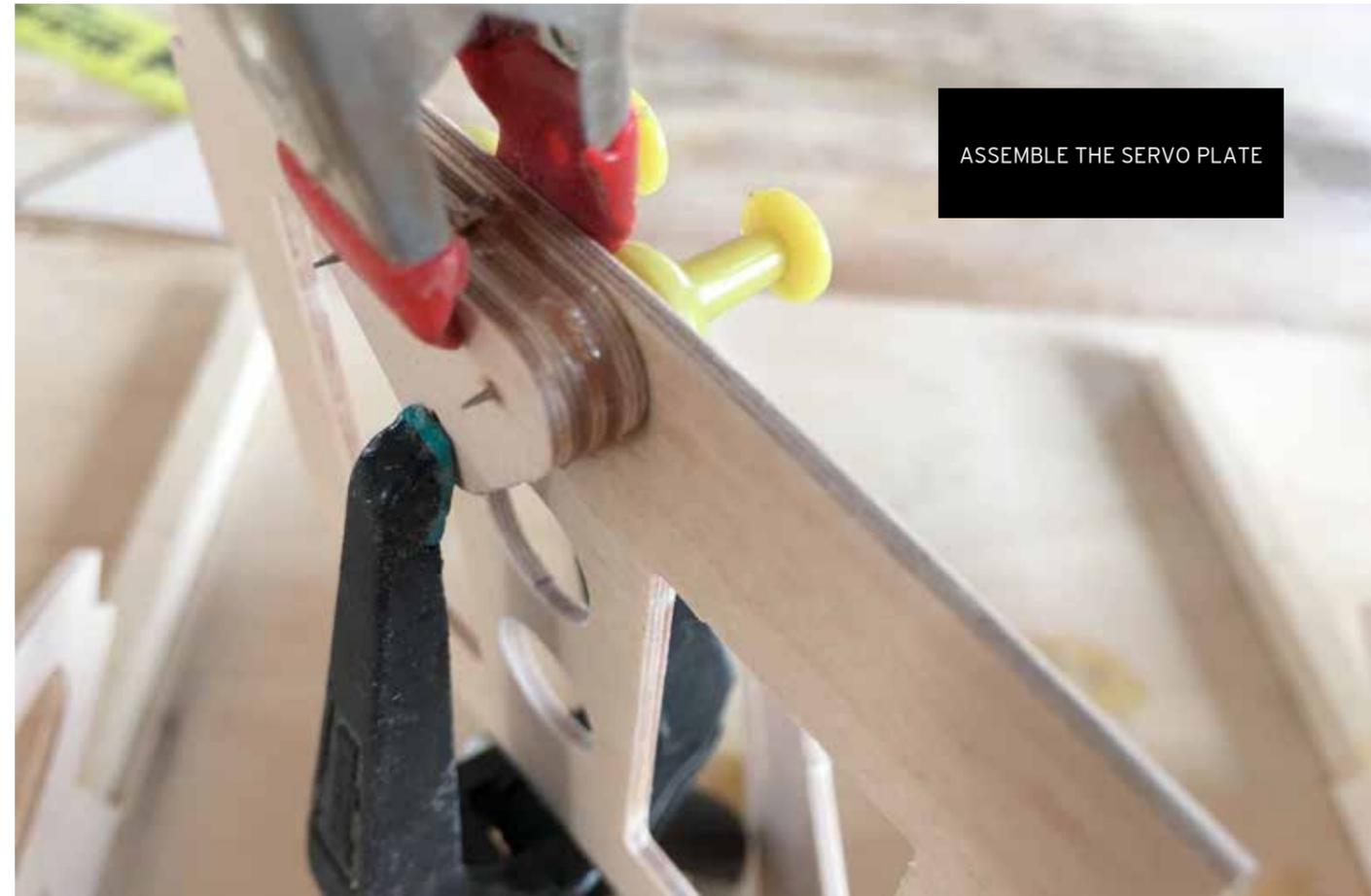
... AND GLUE ON THE BASE OF
THE FIN



NOTE:
THE FIN IS REMOVABLE FOR
EASY TRANSPORT, BUT IF
YOU PREFER, YOU CAN MAKE
IT FIXED AS ON THE FULL-
SIZE



AS FOR THE RUDDER, USE THE FRAME P8 TO MARK THE RIBS POSITION AND NAIL SOME STRIPS 10 x 10 TO THE BUILDING BOARD, THEN GLUE THE RIBS TO THE STRIPS

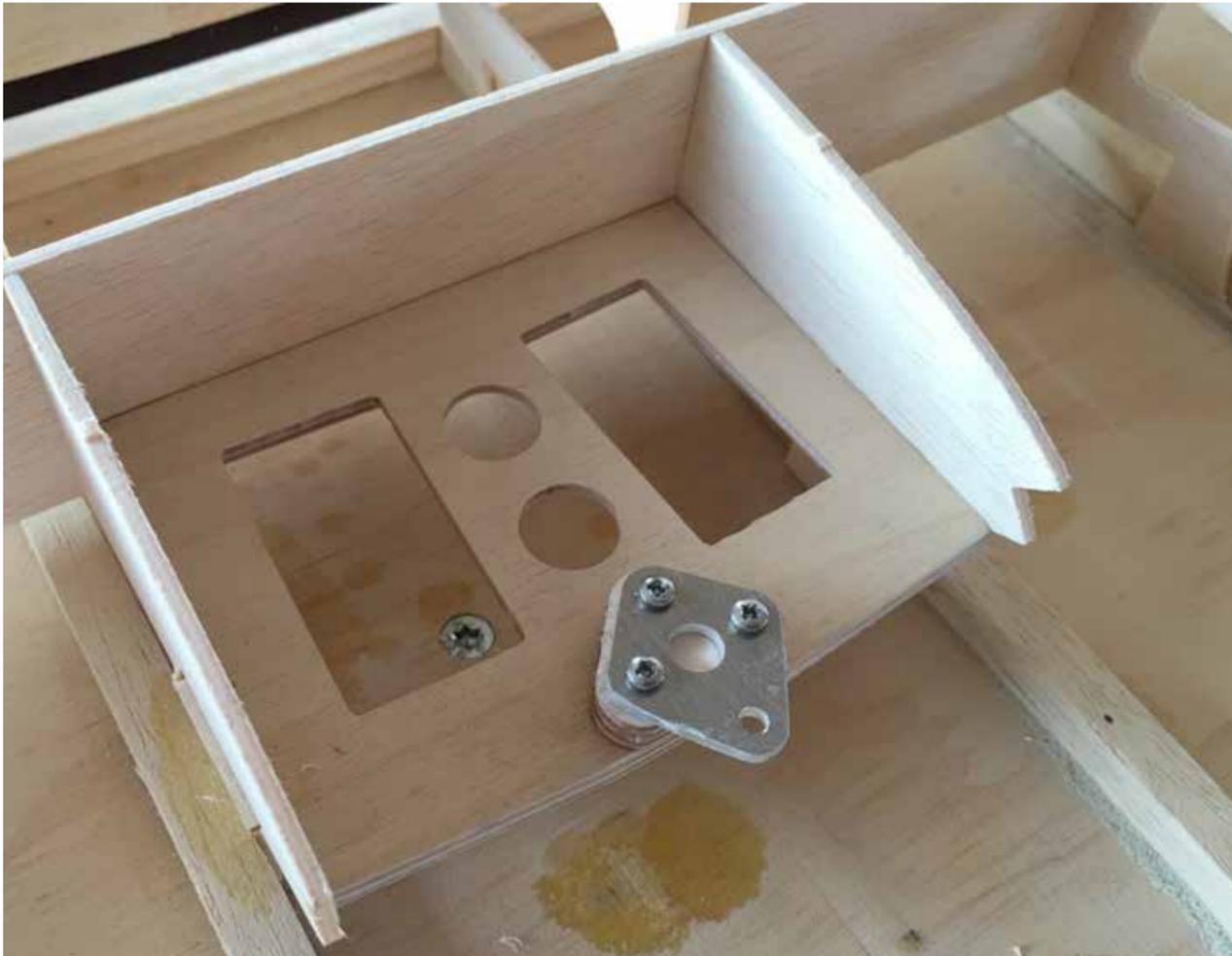


ASSEMBLE THE SERVO PLATE

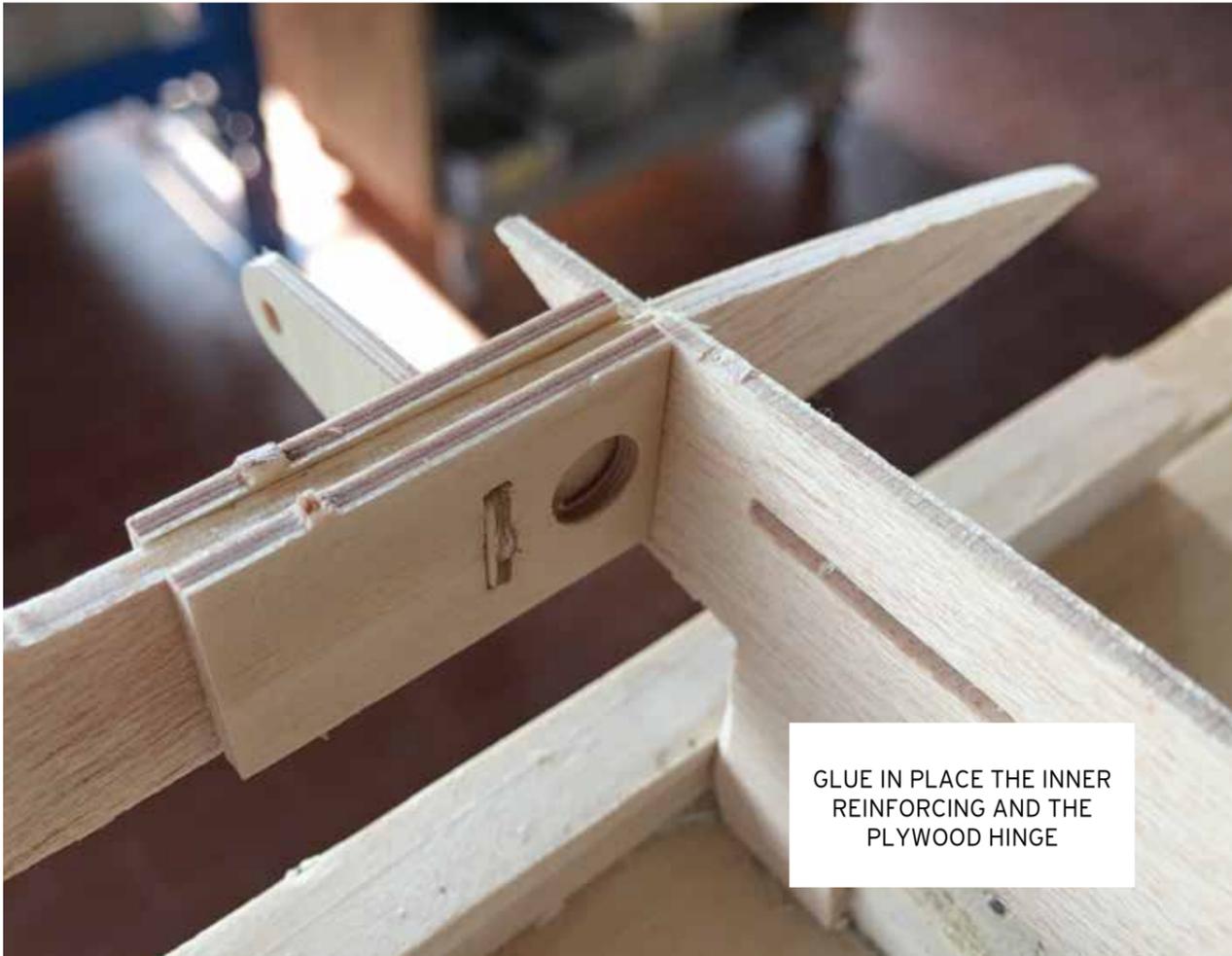
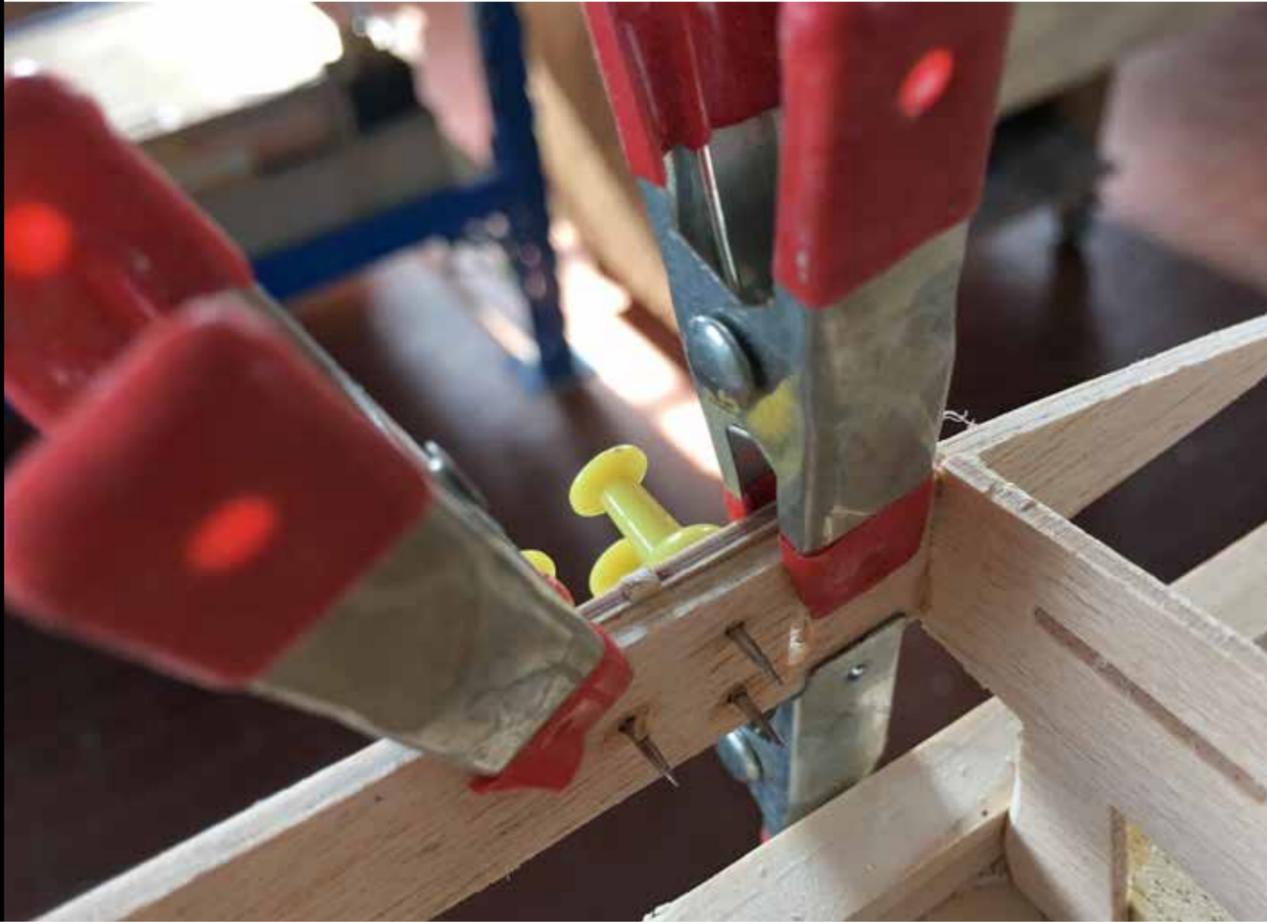




GLUE P7 AND P8 FRAMES AND
ADD THE CEDAR SPARS AS IN THE
DRAWING

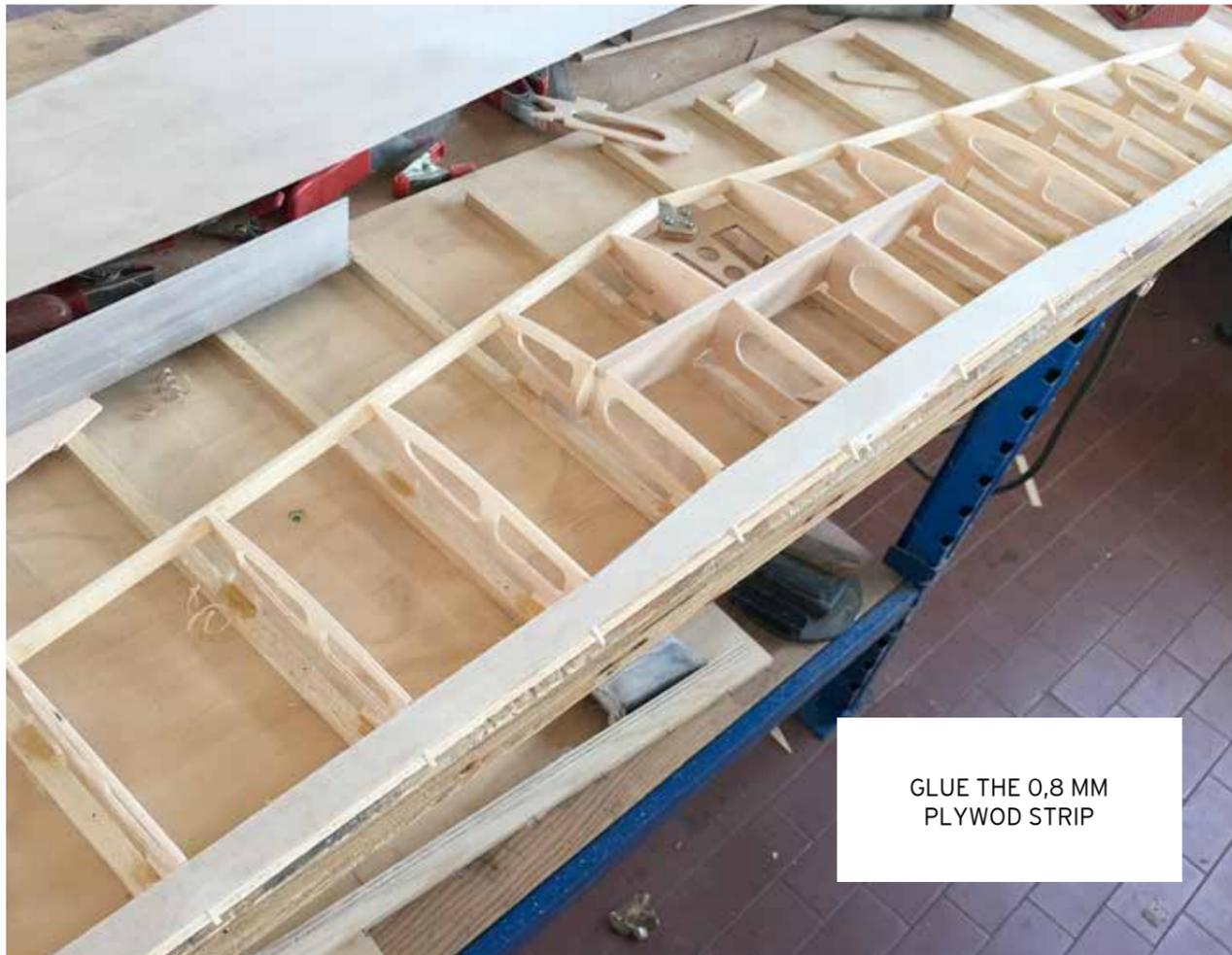
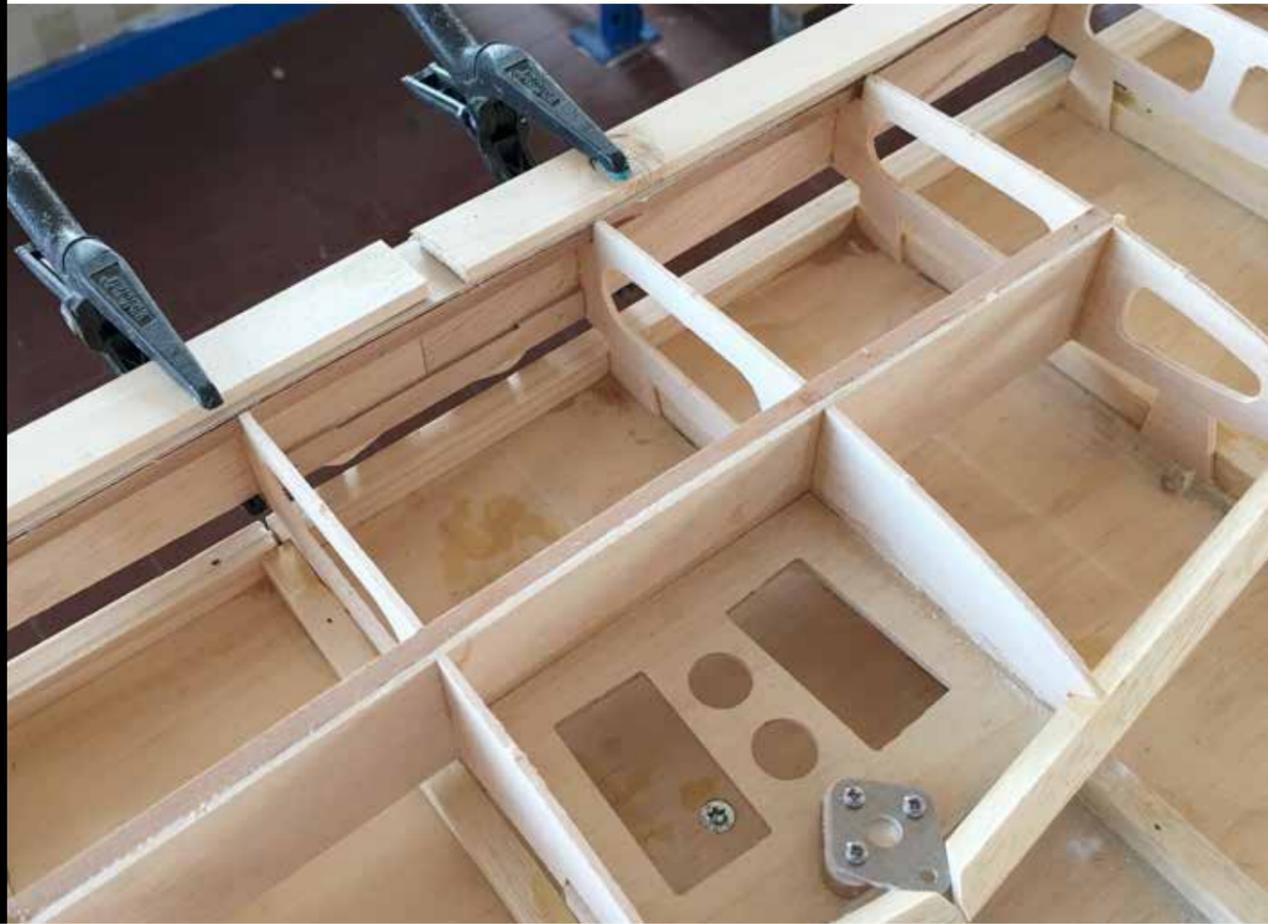


GLUE IN PLACE THE
HOLED REINFORCING FOR
THE HINGE, USING THREE
PINS TO ALIGN



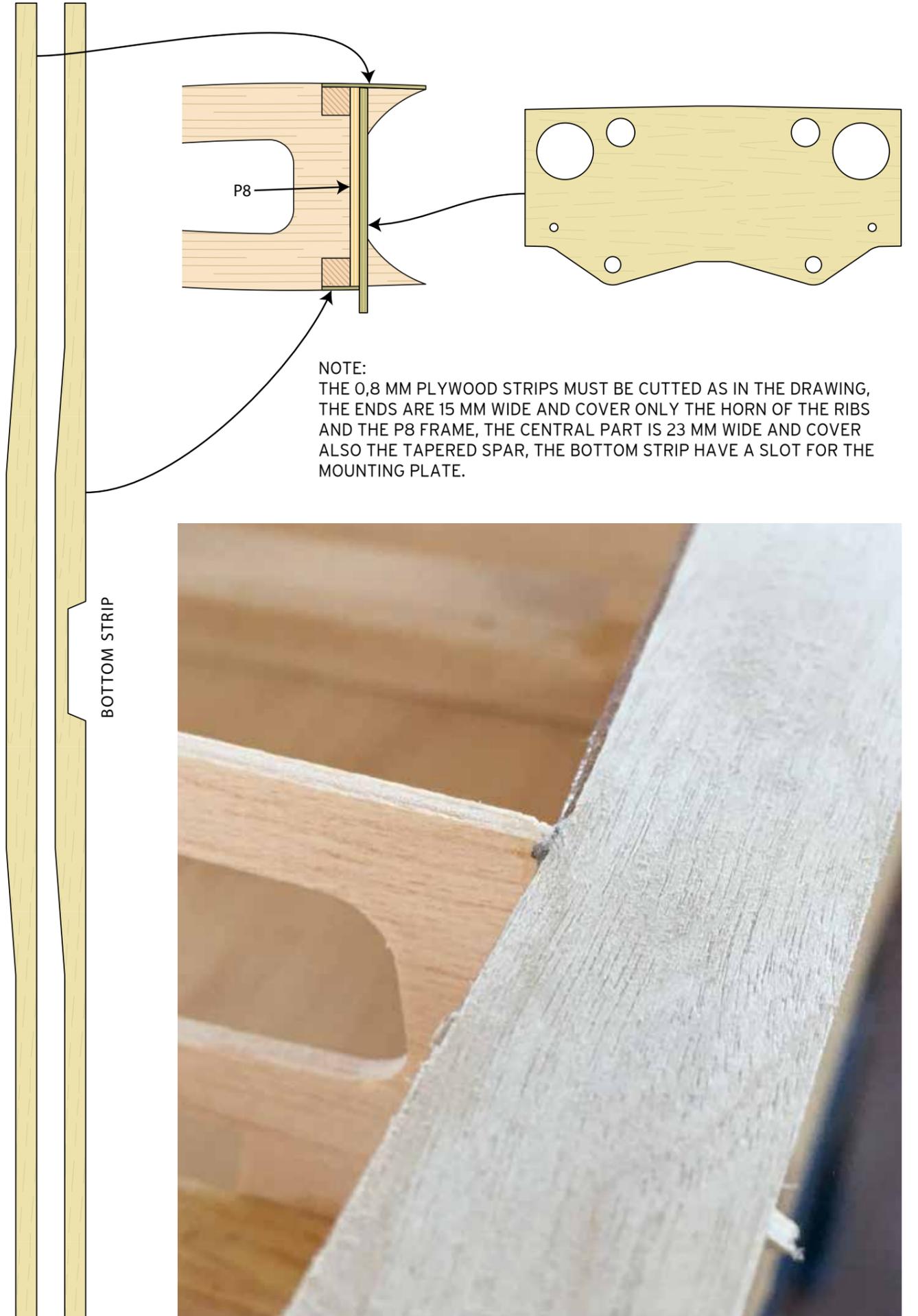
GLUE IN PLACE THE INNER REINFORCING AND THE PLYWOOD HINGE





TOP STRIP

BOTTOM STRIP





COVER WITH 0,6 MM PLYWOOD

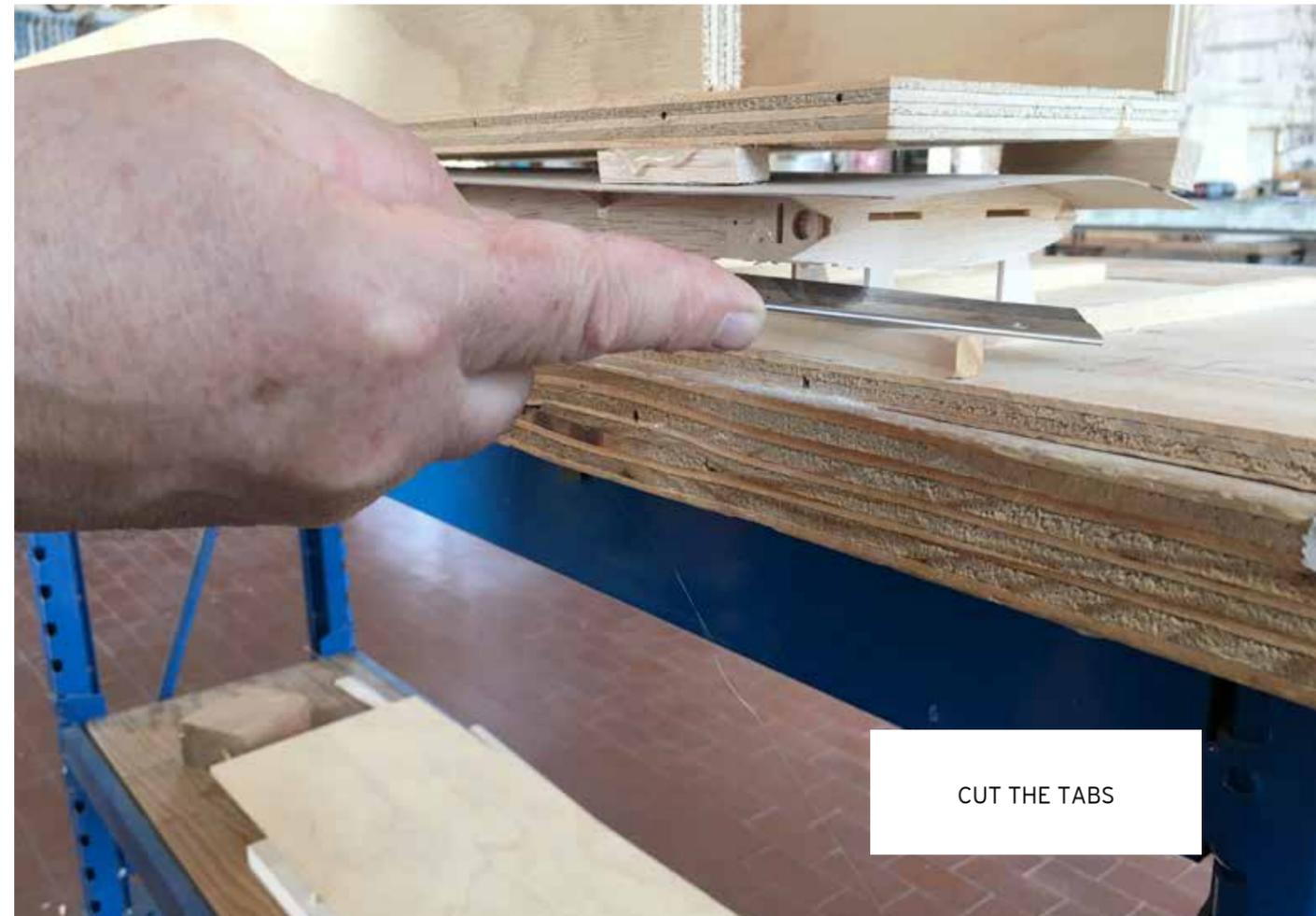


MAKE A SOLID PLYWOOD BOARD WITH APPROX. THE SAME SHAPE AS THE STABILIZER



PLACE THE BOARD ON THE STABILIZER

NOTE:
I ADDED TWO STRIP TO REINFORCE THE BOARD, IT IS NOT NECESSARY IF THE BOARD IS STRONG ENOUGH

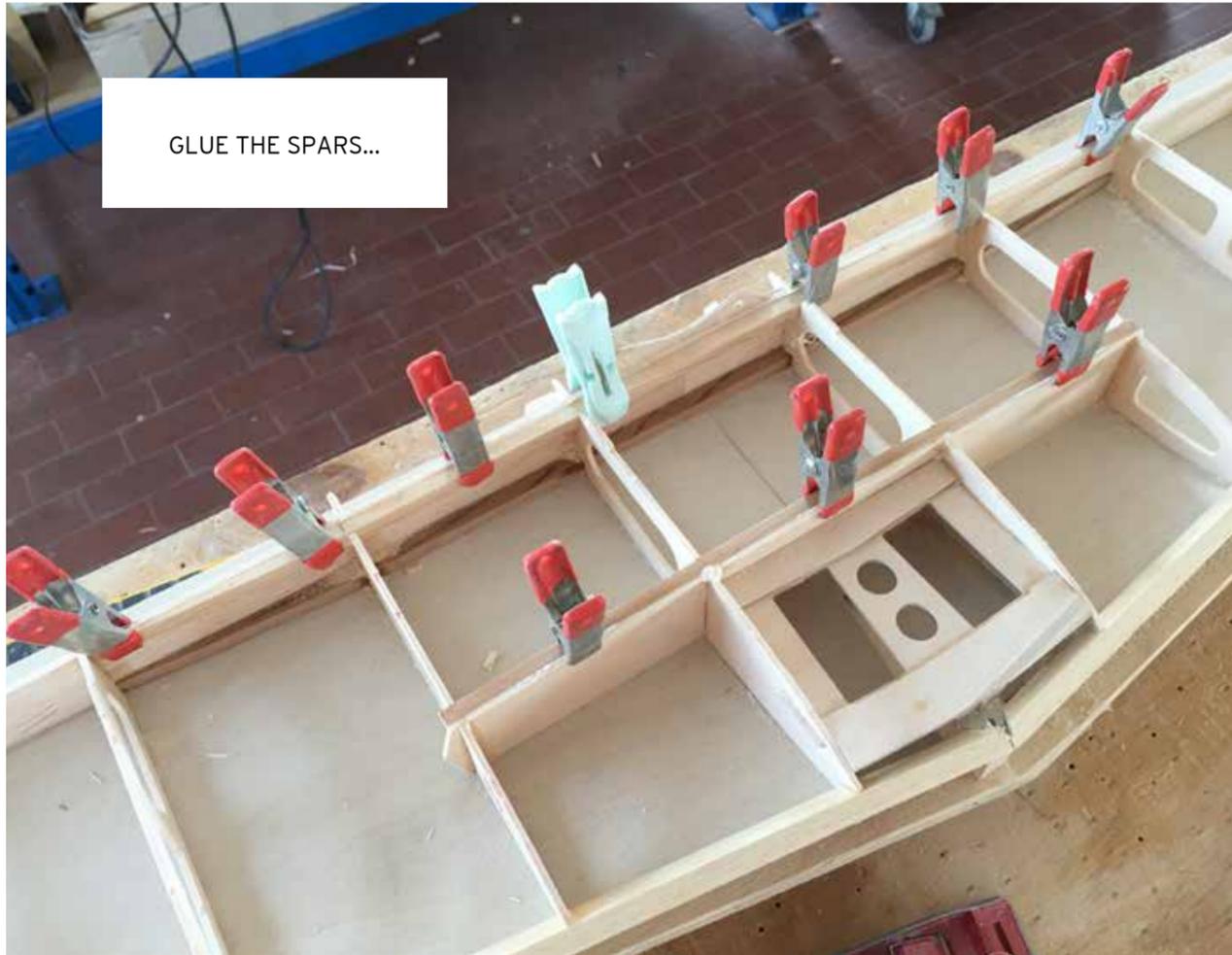




NOW THE STABILIZER IS LOCKED IN STRAIGHT POSITION ON THE BOARD, YOU CAN COVER THE BOTTOM WITHOUT DANGER OF DEFORMING



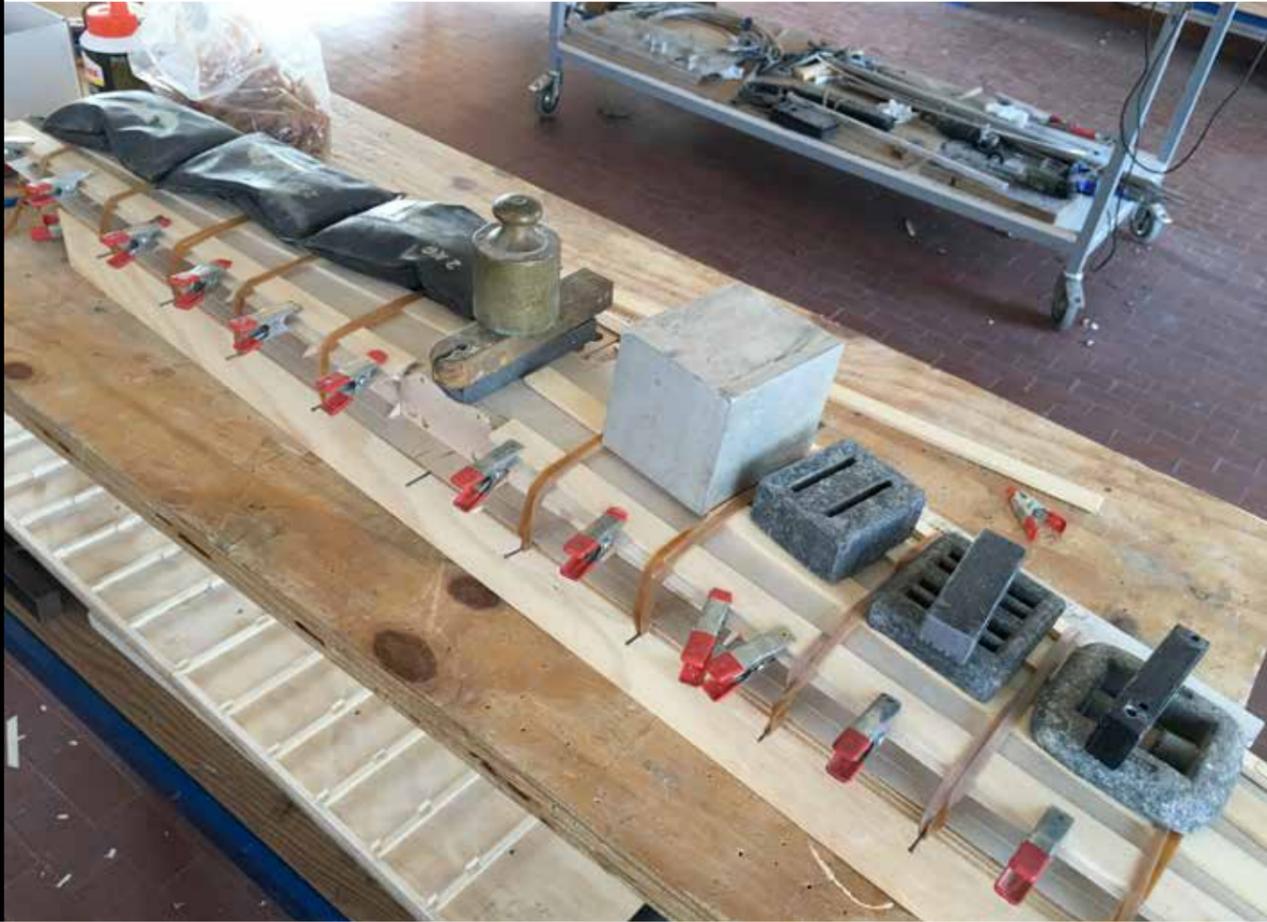
...AND THE PLYWOOD STRIPS



GLUE THE SPARS...



THEN COVER WITH 0,6 MM PLYWOOD



NOW THE "BOX" IS LOCKED AND IT IS IMPOSSIBLE TO DEFORM, YOU CAN REMOVE THE BOARD, CUT THE BALSA SCRAPS AND CLEAN THE TOP FROM THE HOT GLUE





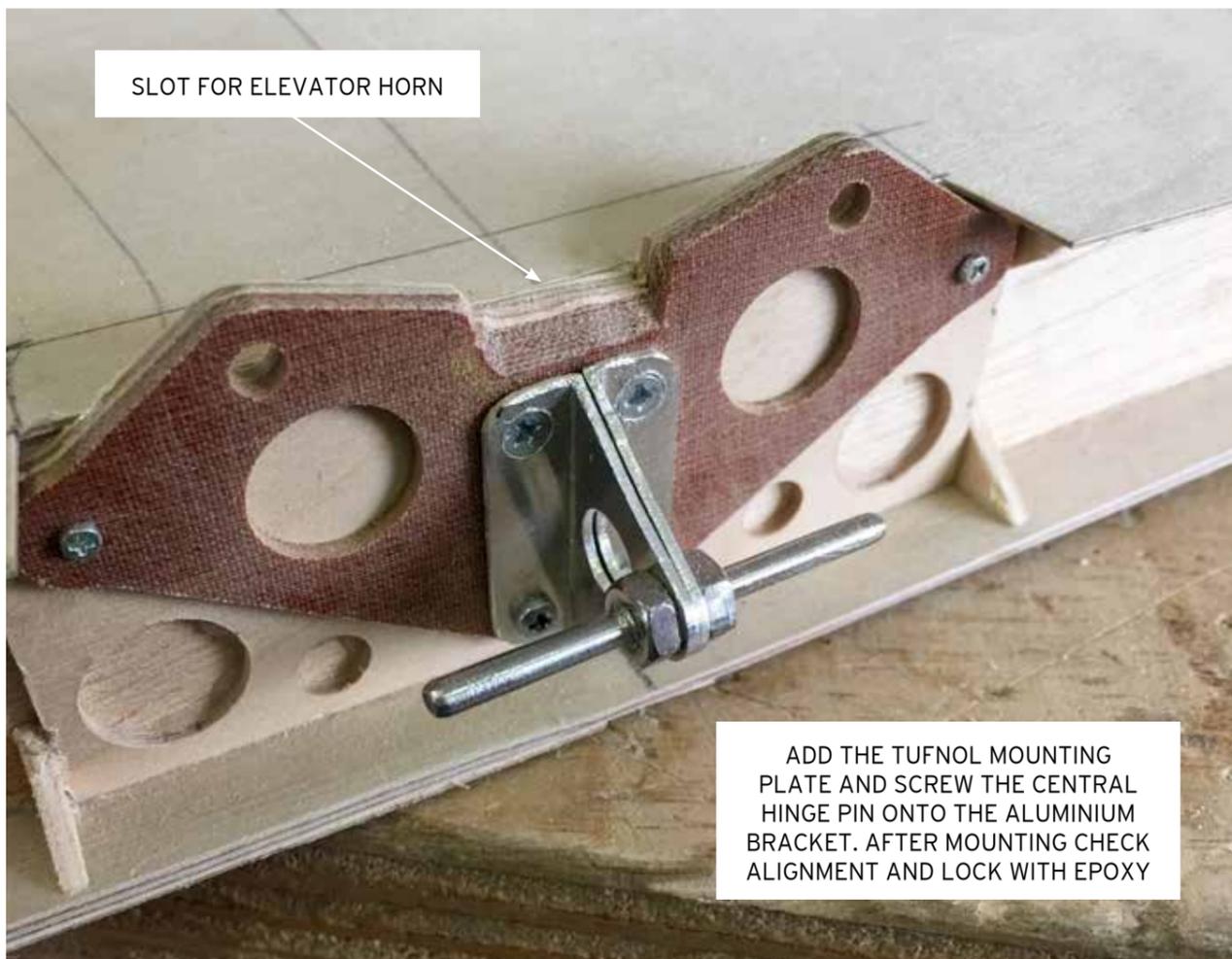
SCREW IN PLACE THE ALUMINIUM BRACKET AND LOCK WITH EPOXY



LOCK WITH EPOXY ALSO THE PIN, MAKE SURE THAT THE HOLE IS VERTICAL



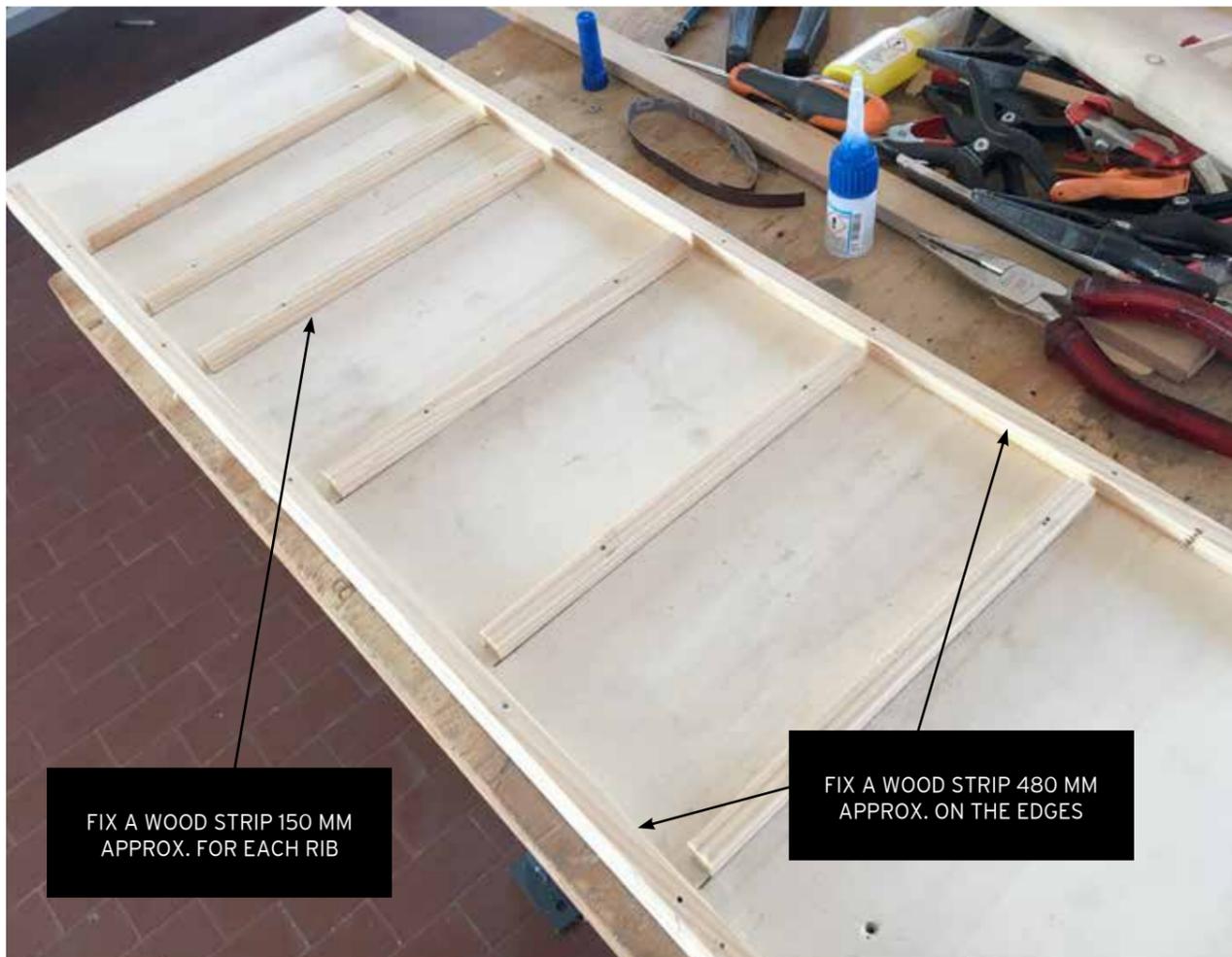
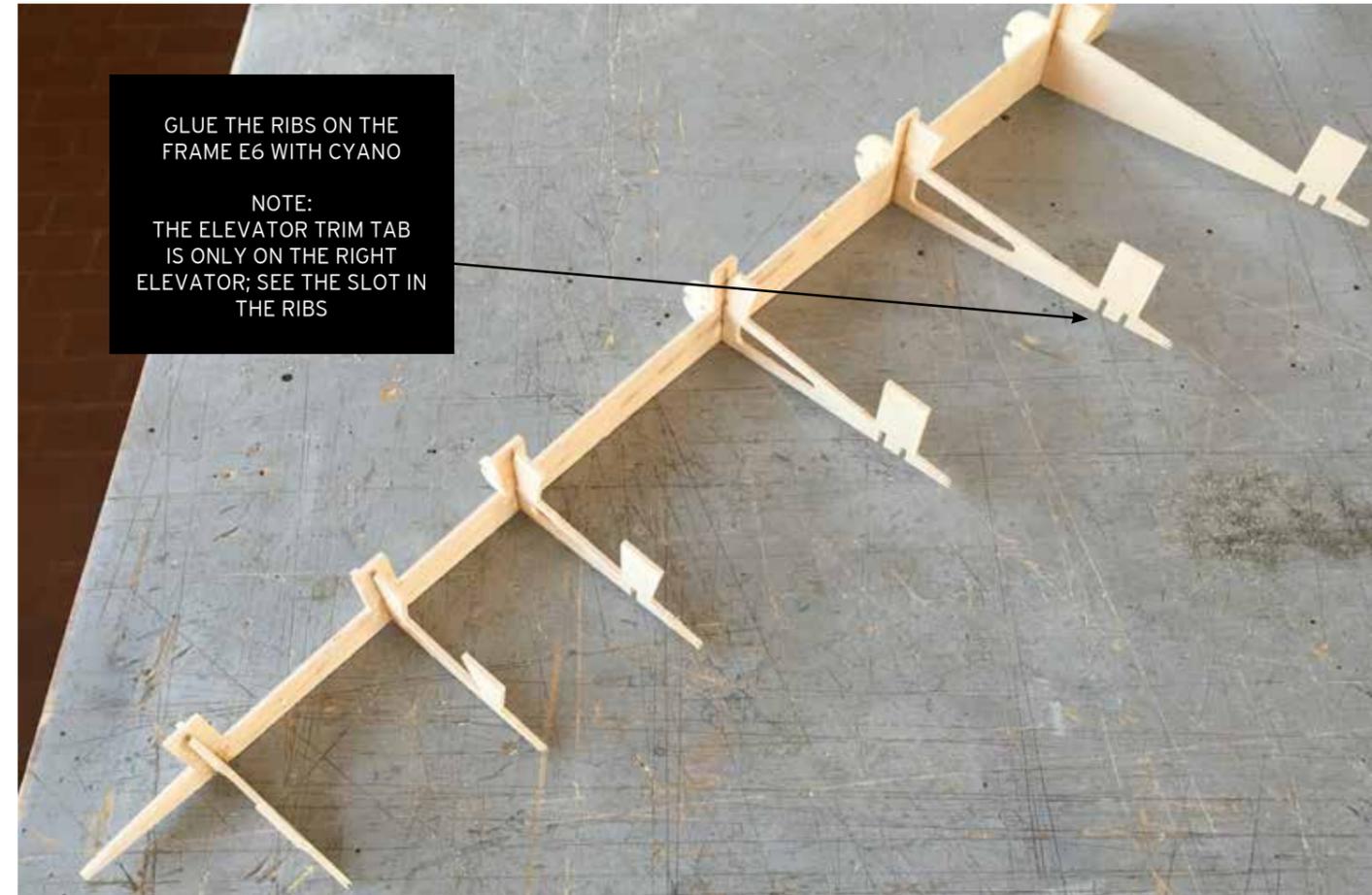
ADD THE PLYWOOD ENDS
AND MAKE THE Balsa TIPS



SLOT FOR ELEVATOR HORN

ADD THE TUFNOL MOUNTING
PLATE AND SCREW THE CENTRAL
HINGE PIN ONTO THE ALUMINIUM
BRACKET. AFTER MOUNTING CHECK
ALIGNMENT AND LOCK WITH EPOXY



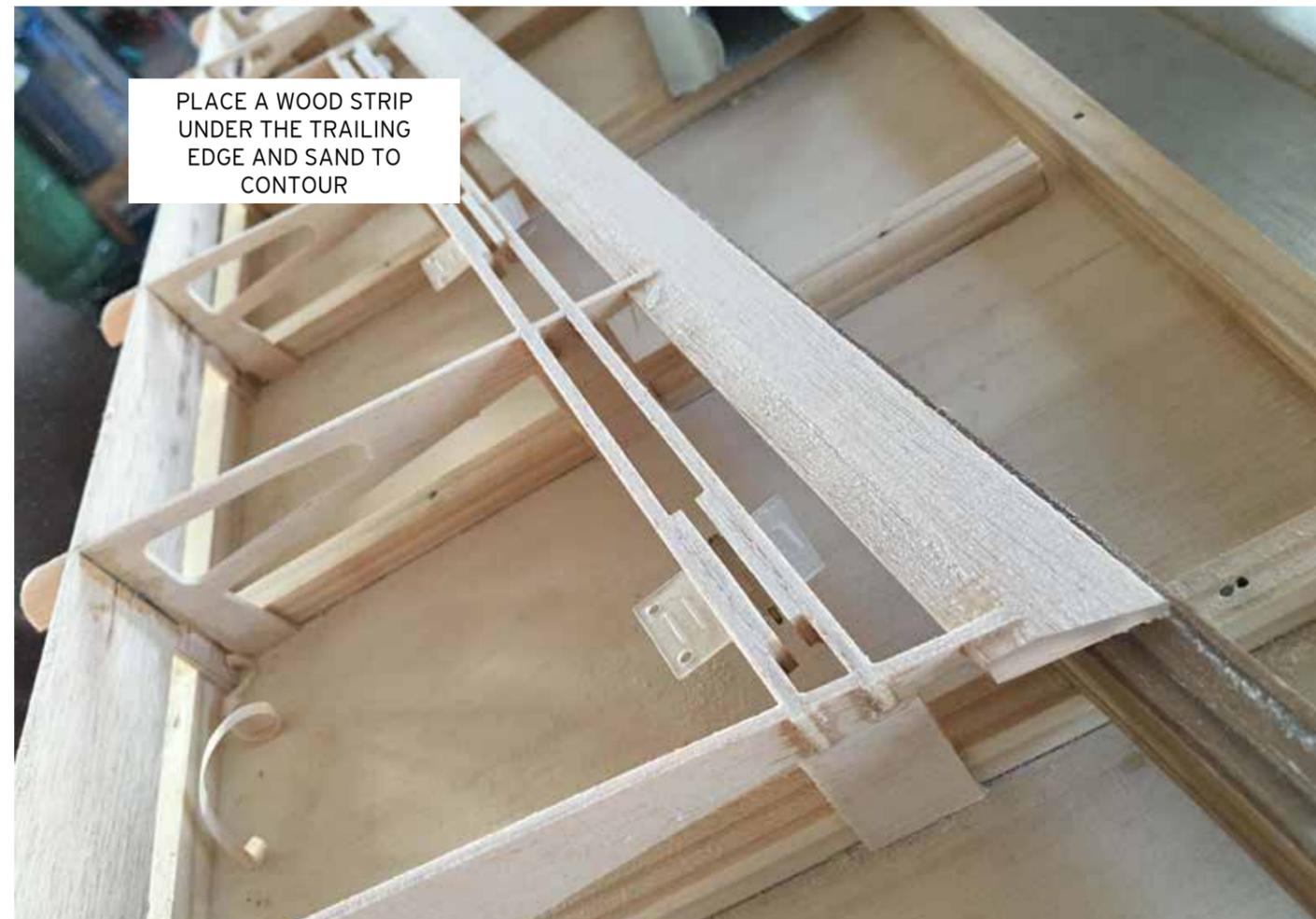




ASSEMBLE THE ELEVATOR TRIM TAB PLYWOOD SPARS



GLUE THE SPARS AND THE Balsa TRAILING EDGE, DON'T FORGET TO INSERT THE NYLON HINGES BETWEEN THE SPARS (WITHOUT GLUE)



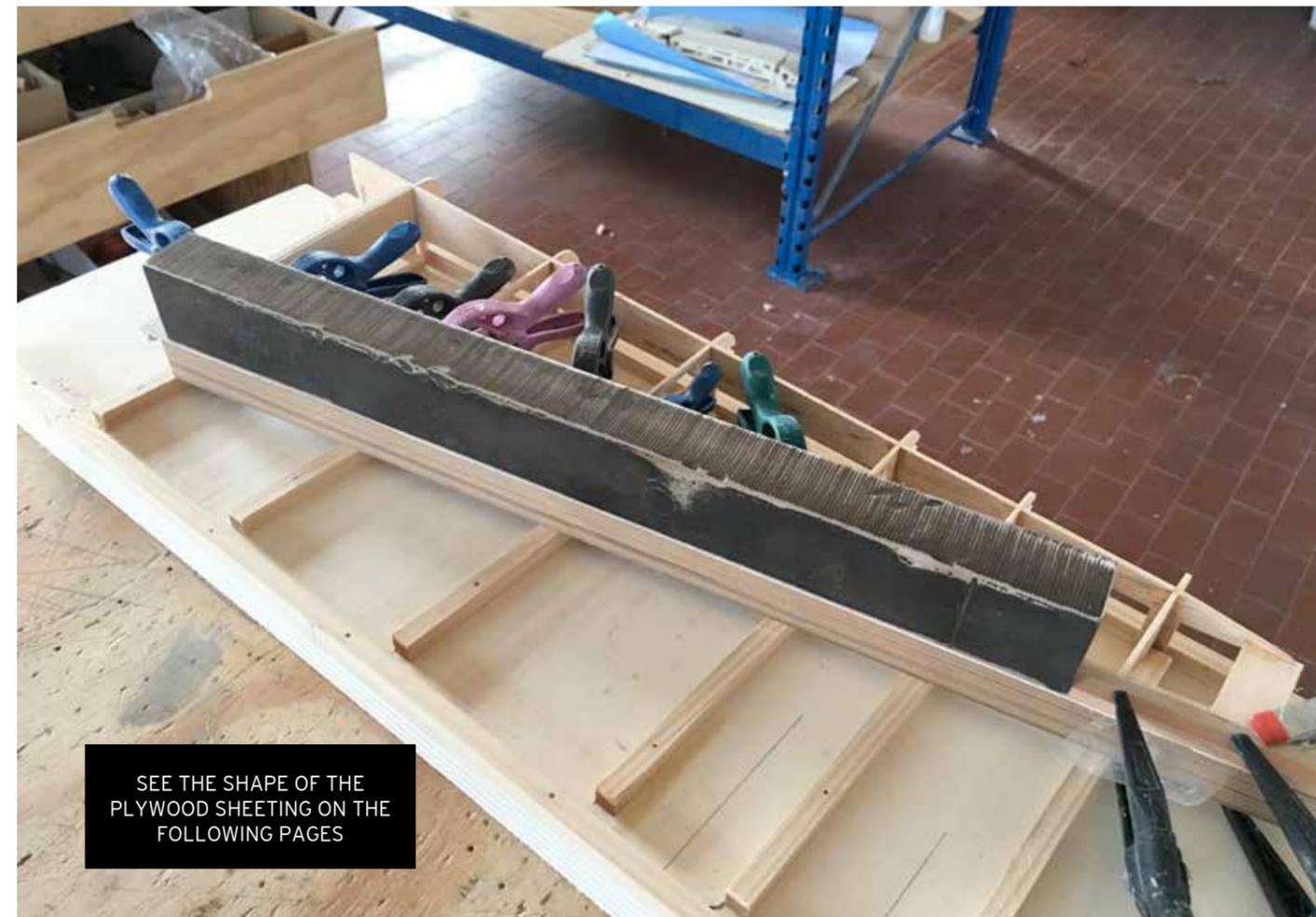
PLACE A WOOD STRIP UNDER THE TRAILING EDGE AND SAND TO CONTOUR



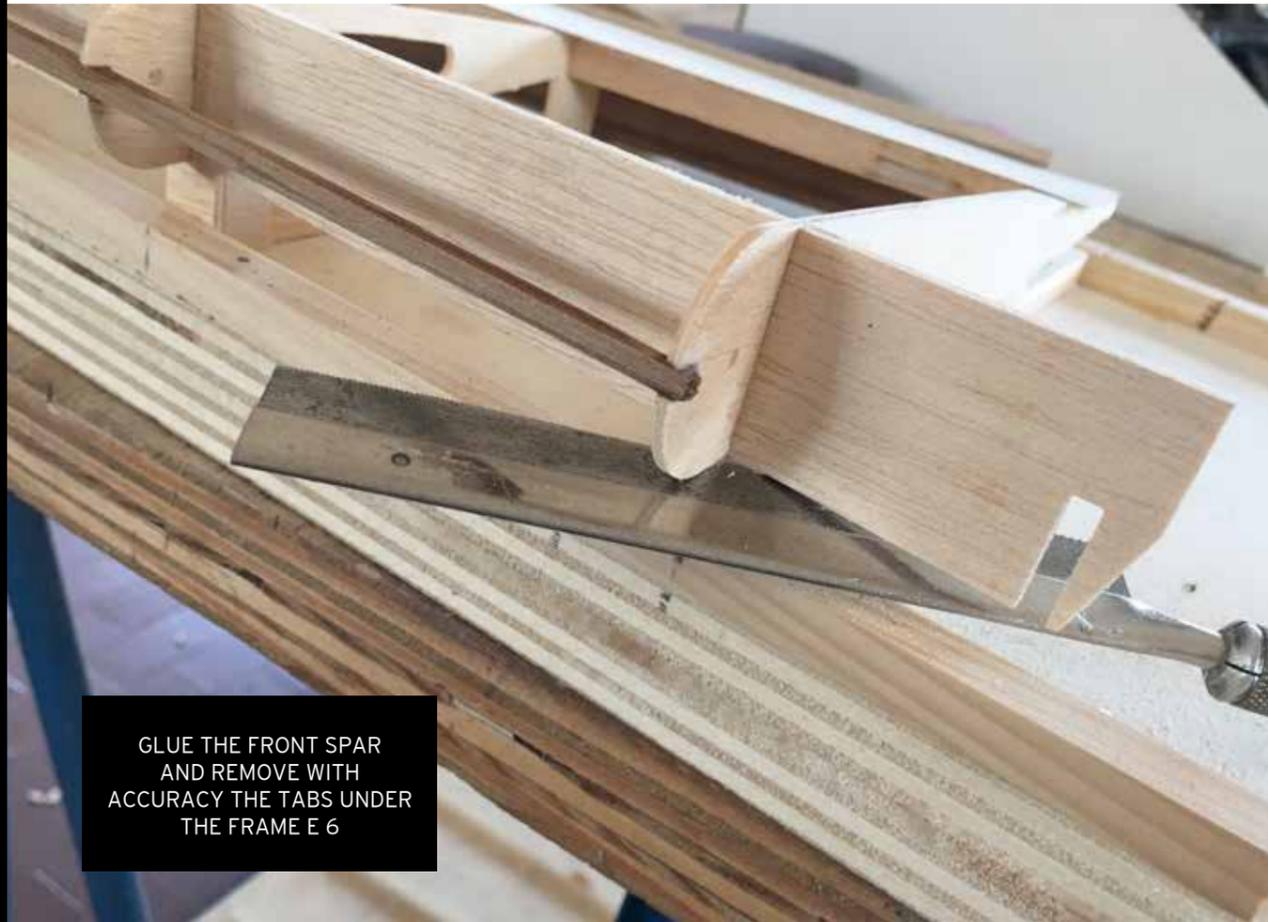
GLUE THE 0.6 MM PLYWOOD SHEETING ON THE ELEVATOR TRIM TAB AND ON THE TRAILING EDGE



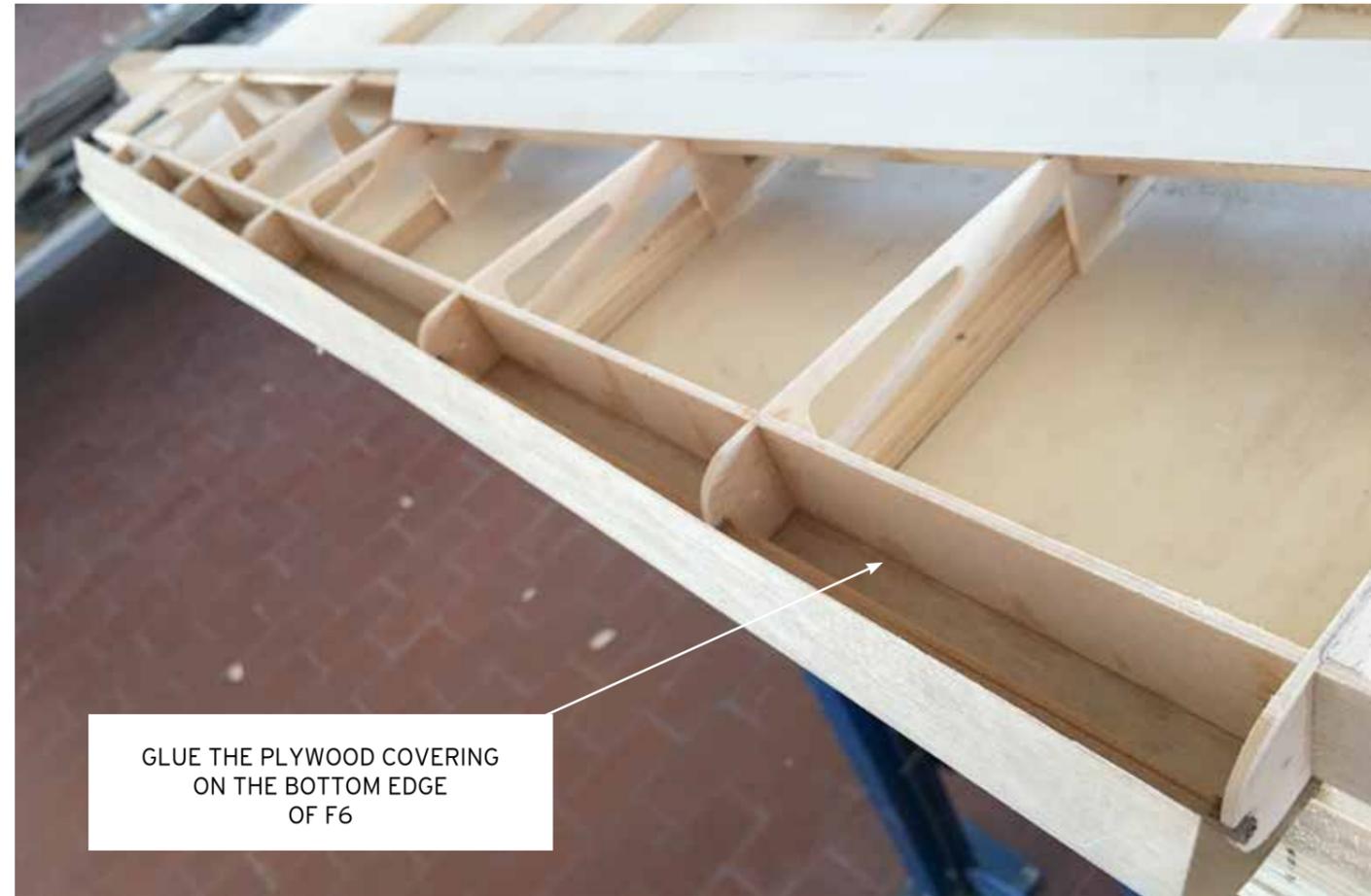
GLUE A 5 MM BALSA STRIP ON THE 1 ST. RIB



SEE THE SHAPE OF THE PLYWOOD SHEETING ON THE FOLLOWING PAGES



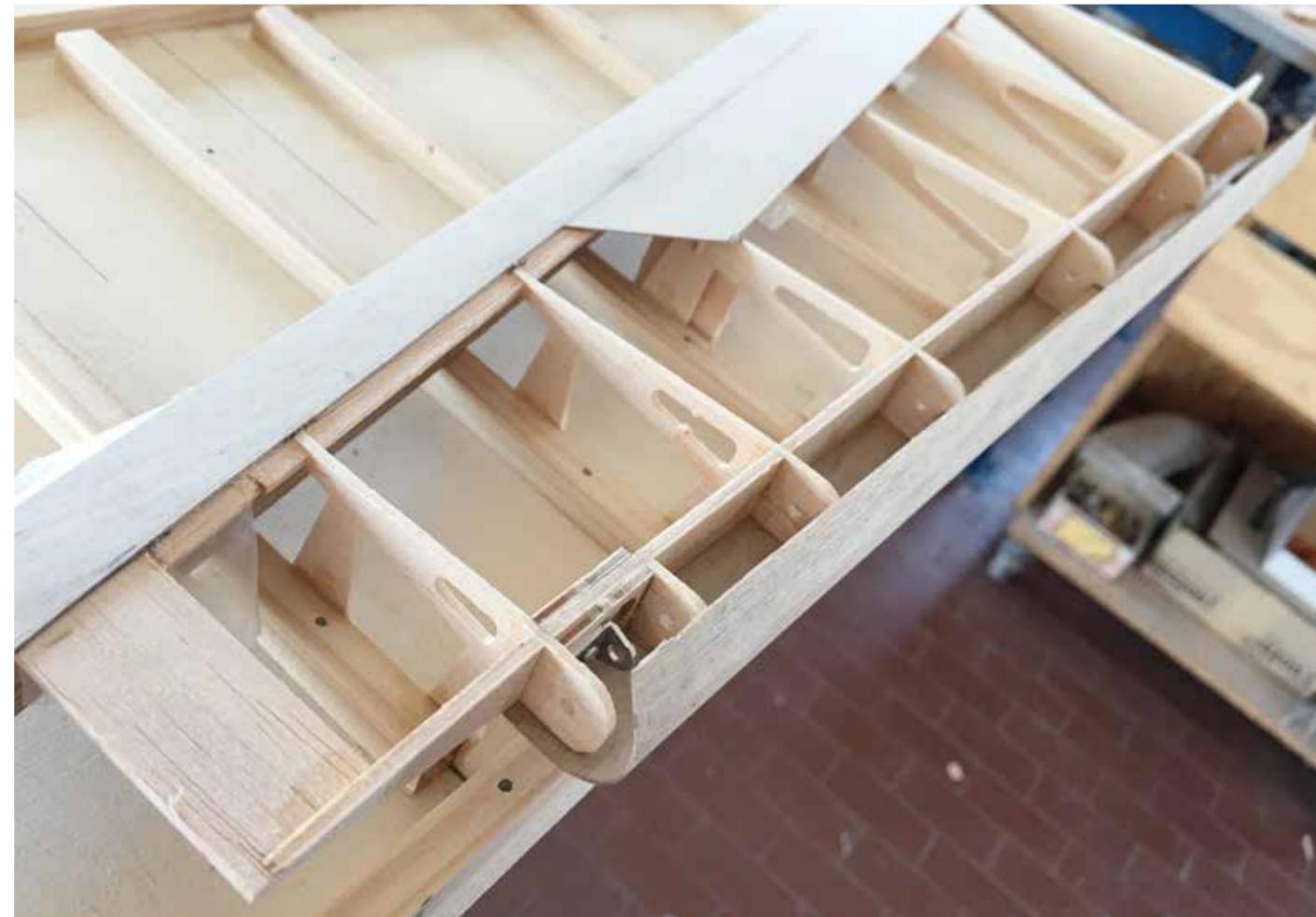
GLUE THE FRONT SPAR AND REMOVE WITH ACCURACY THE TABS UNDER THE FRAME E 6



GLUE THE PLYWOOD COVERING ON THE BOTTOM EDGE OF F6



SCREW IN PLACE THE ALUMINIUM BRACKET; LOCK WITH EPOXY AFTER CHECKING THE ASSEMBLY





WHEN DRY, GLUE THE PLYWOOD COVERING ONTO THE RIBS AND ON THE OTHER EDGE OF F6





CUT ALL THE TABS AND REMOVE THE ELEVATOR



USE THE HOLES AS A REFERENCE TO DRAW THE TRIM TAB DIMENSIONS



MAKE SOME HOLE WITH PINS BETWEEN THE SPARS



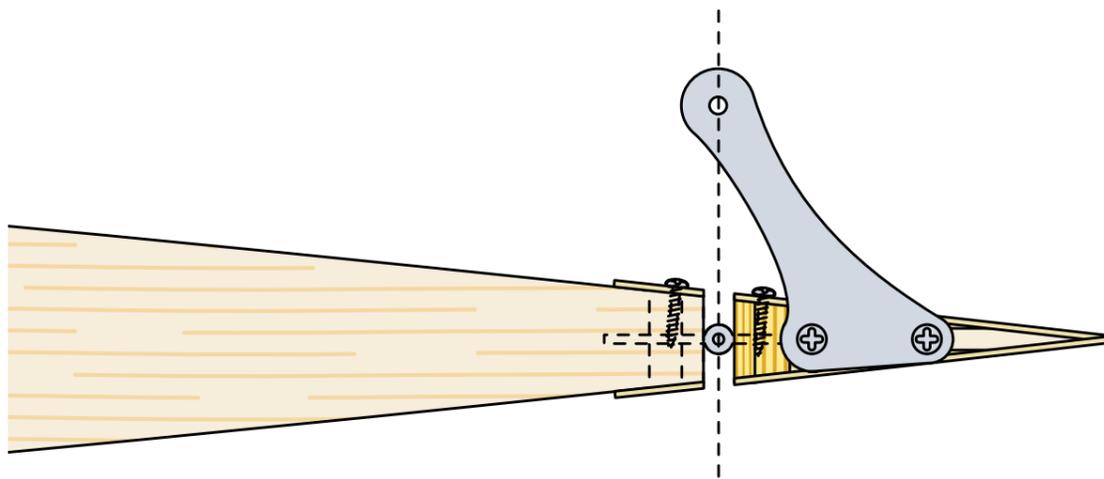
GLUE THE BOTTOM PLYWOOD COVERING, CLAMP WITH TWO STRAIGHT BARS



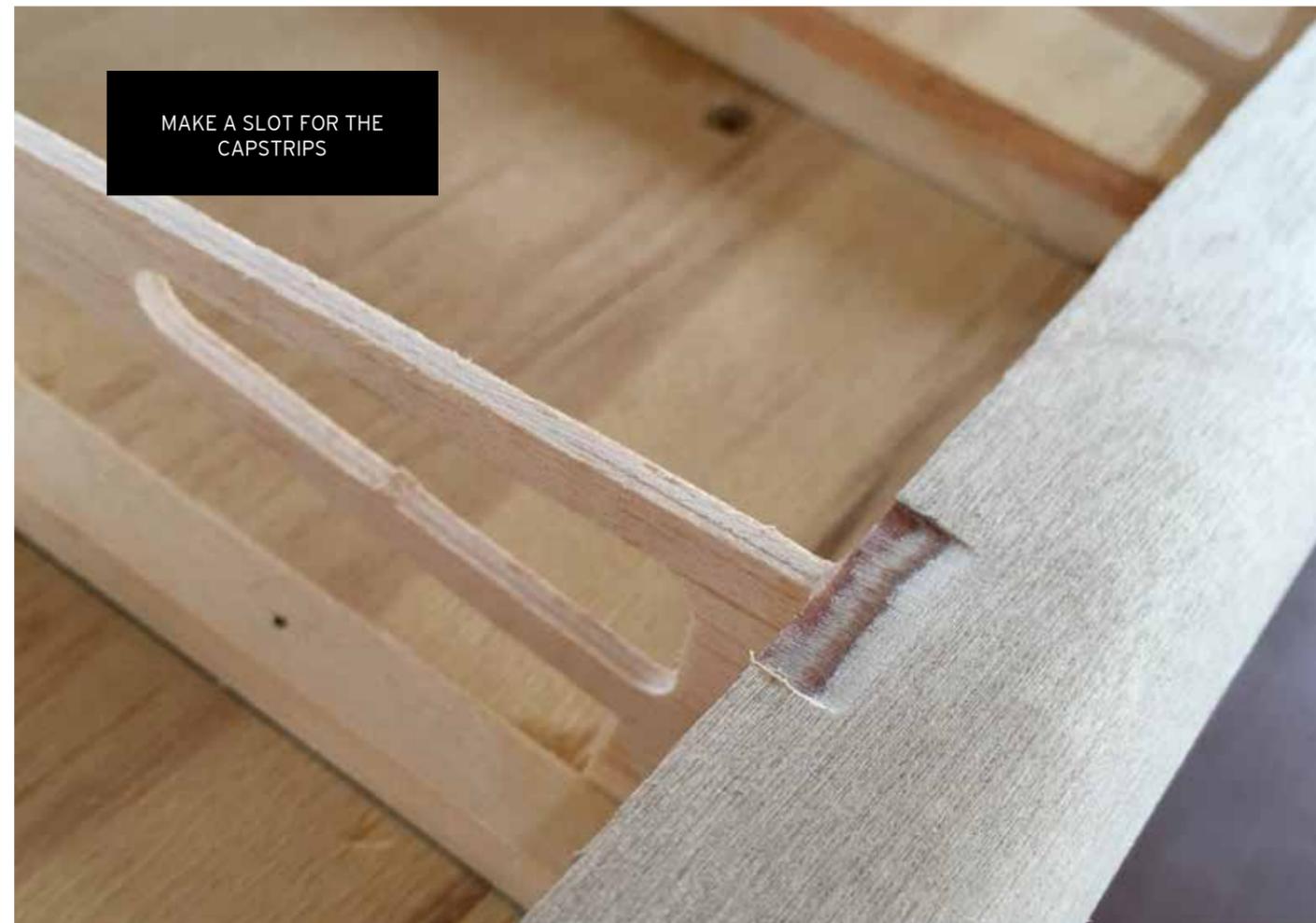
CUT A SLOT OF APPROX. 2.5MM IN THE PLYWOOD AND LOCK THE HINGES WITH SIX Ø1,8 X 8 TAPPING SCREWS



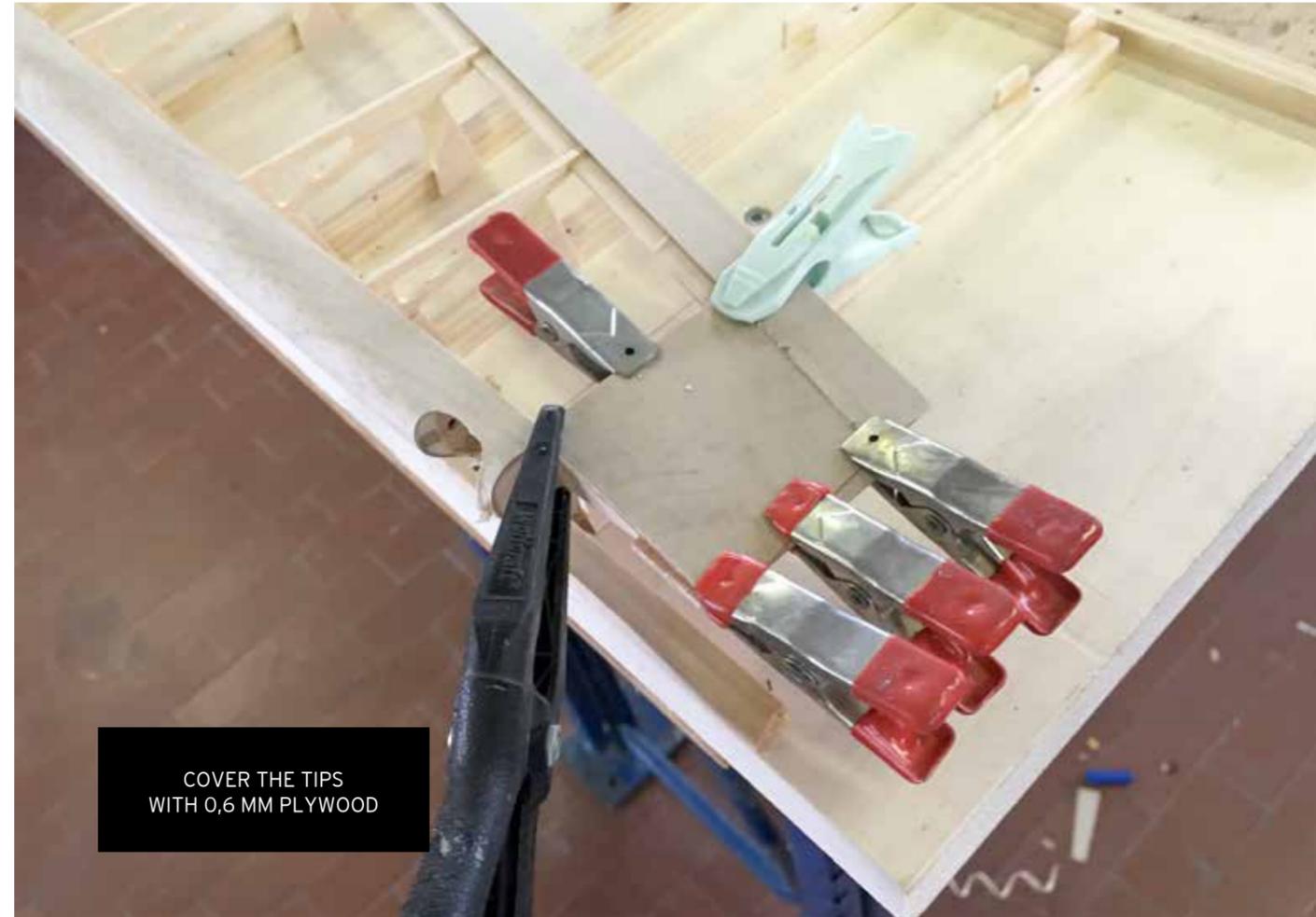
MAKE THE LEFT ELEVATOR



SCREW THE ALUMINIUM TRIM TAB HORN WITH TWO Ø1,8 X 8 TAPPING SCREWS LOCK WITH EPOXY AFTER FABRIC COVERING



MAKE A SLOT FOR THE CAPSTRIPS



COVER THE TIPS
WITH 0,6 MM PLYWOOD

