Piper L4 “Grasshopper”

1/3 scale RC

PAOLO SEVERIN

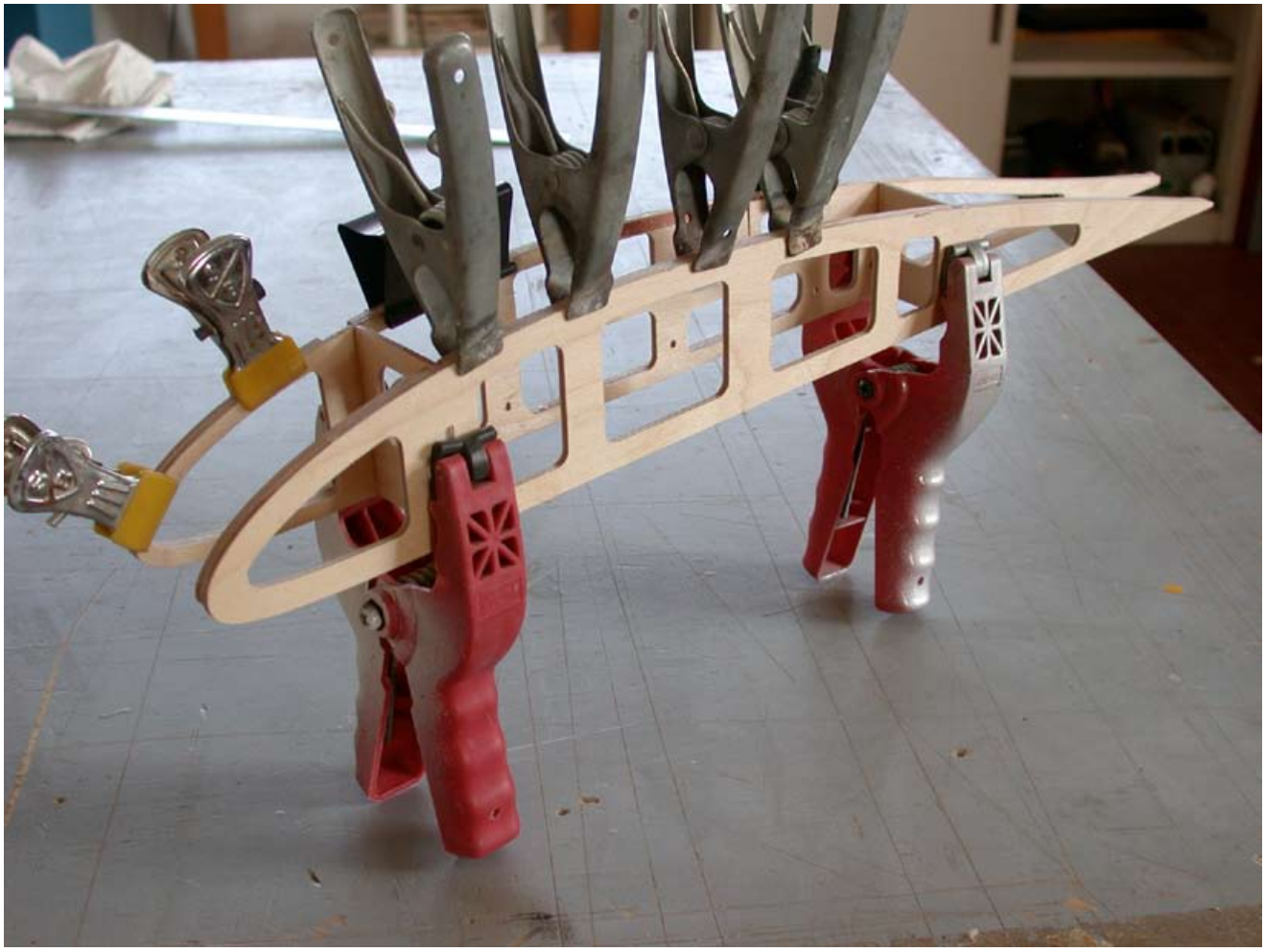
PHOTO MANUAL

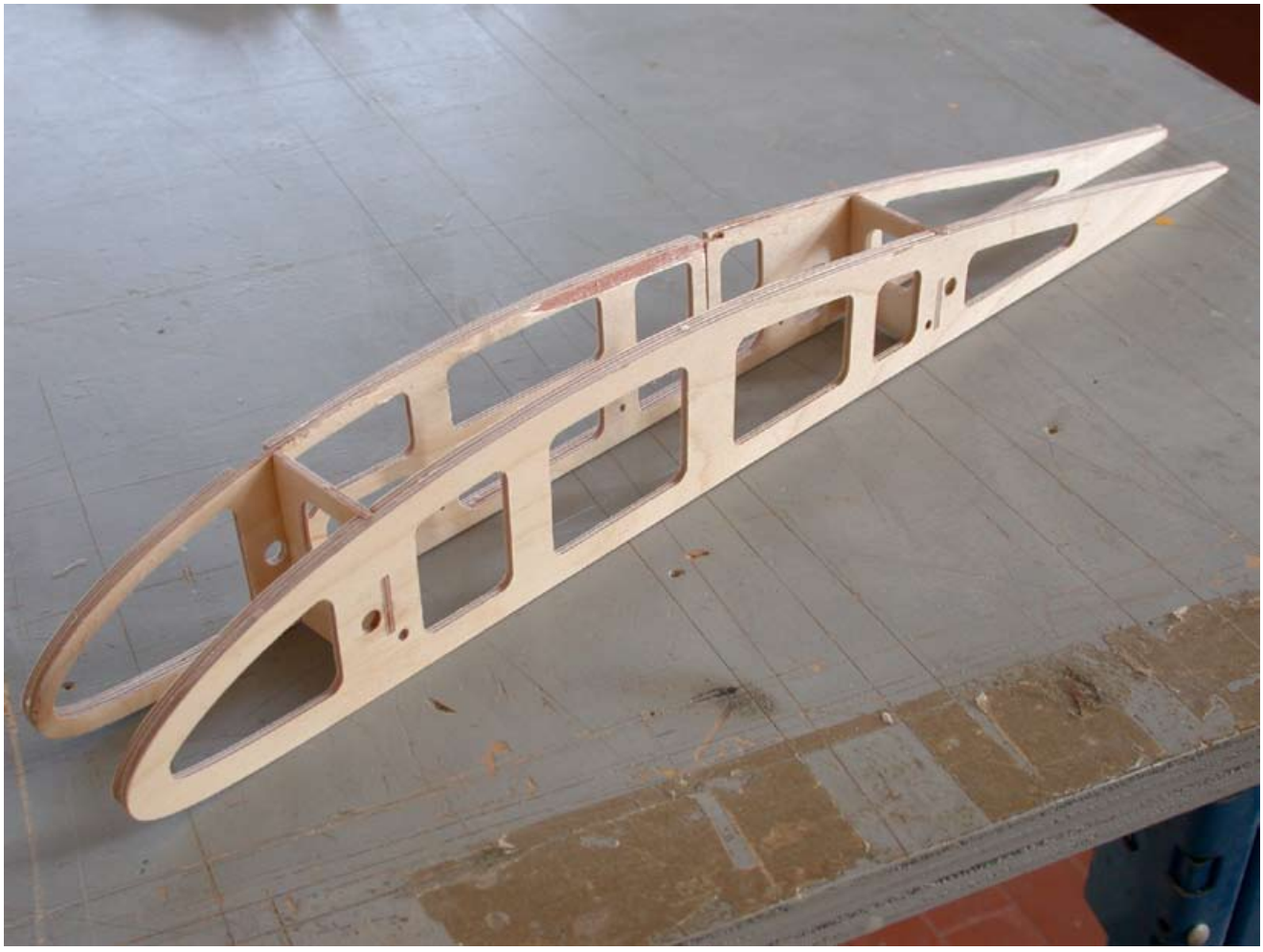
1. FUSELAGE

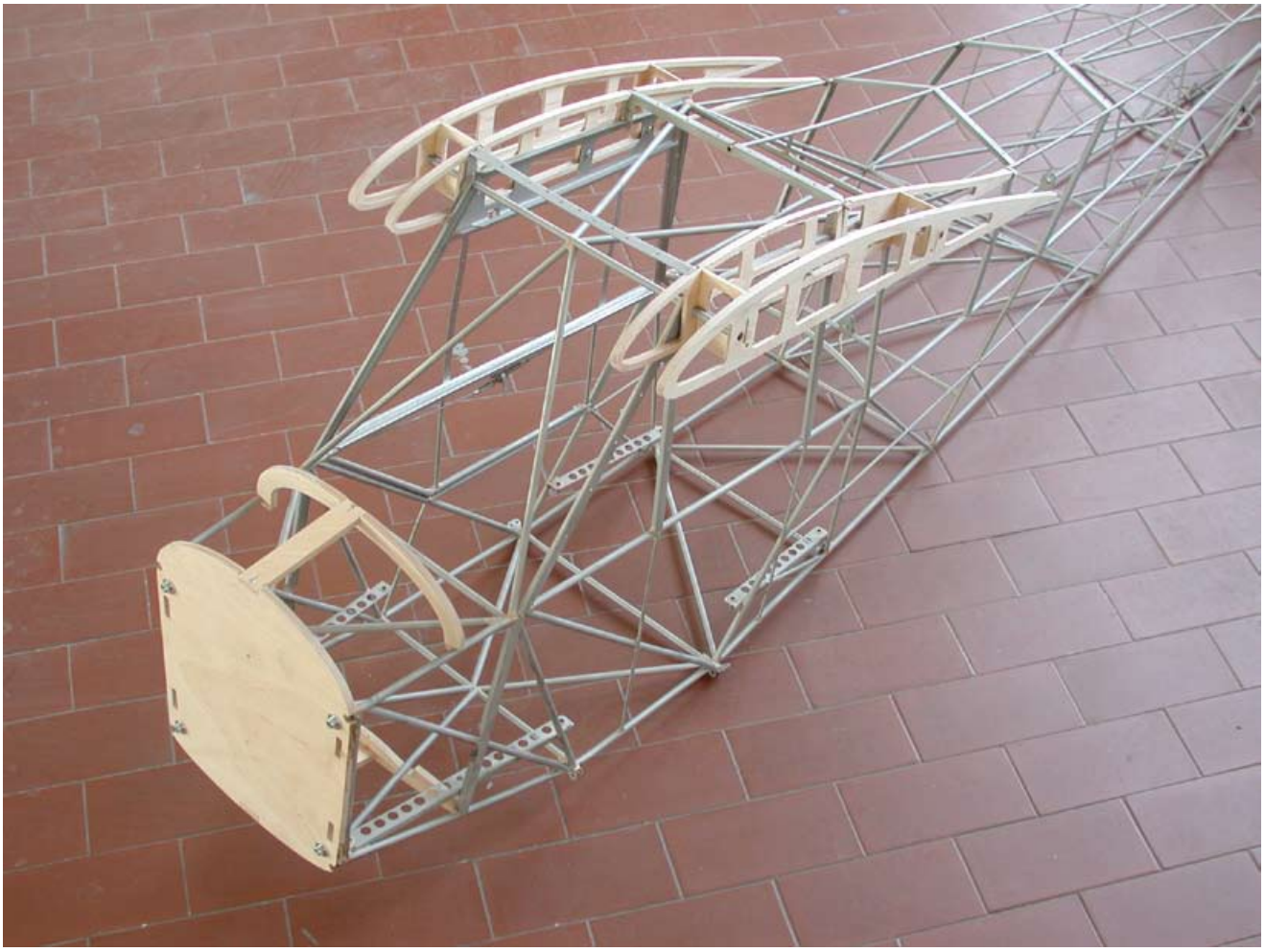
NOTE:

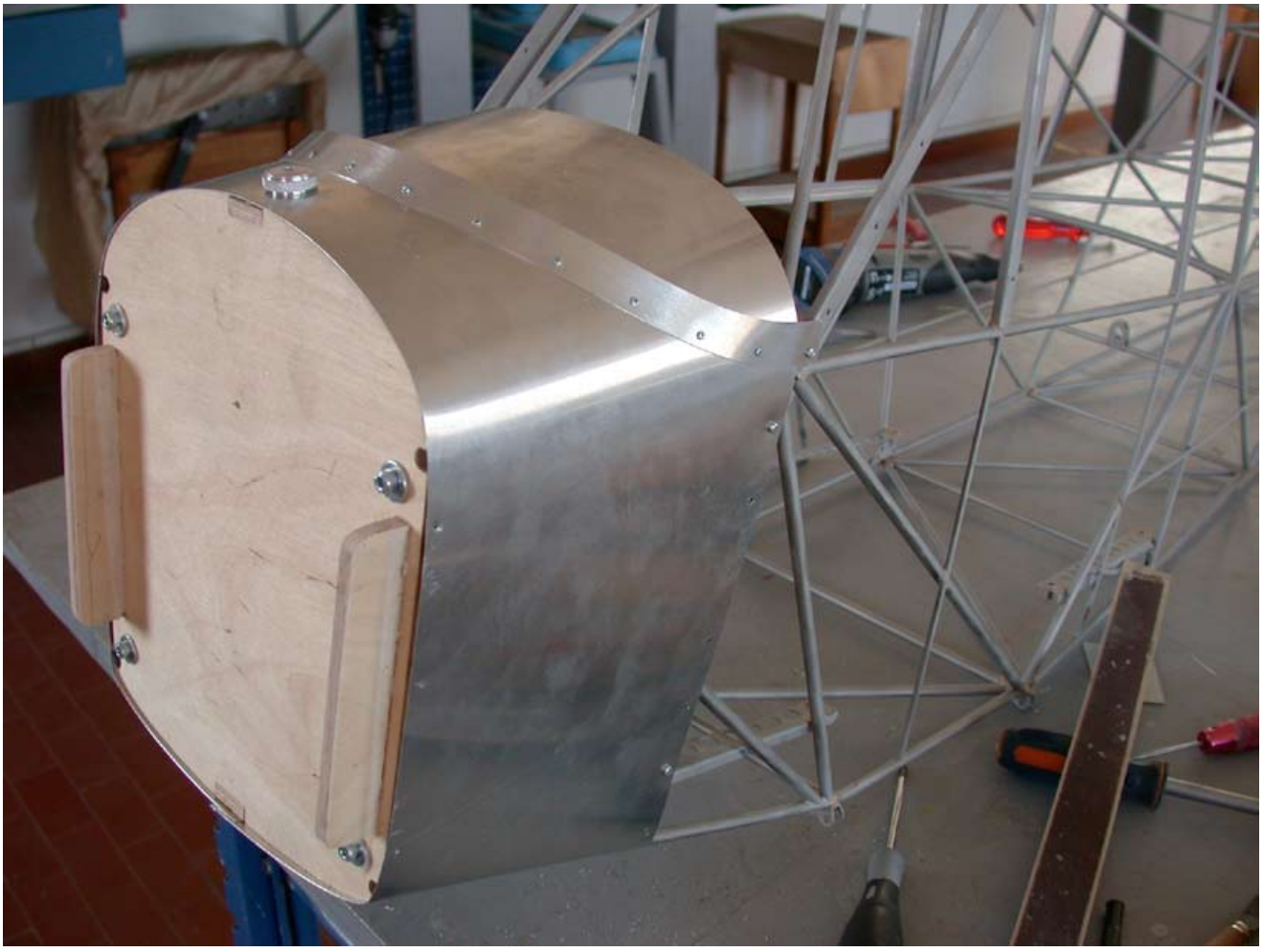
This kit represents the state of the art
in this type of construction.
Soon will be developed some accessories
as ribs lacing,
seats kit with functional yoke,
and fiberglass scale floats
(this fuselage is already with float fittings).

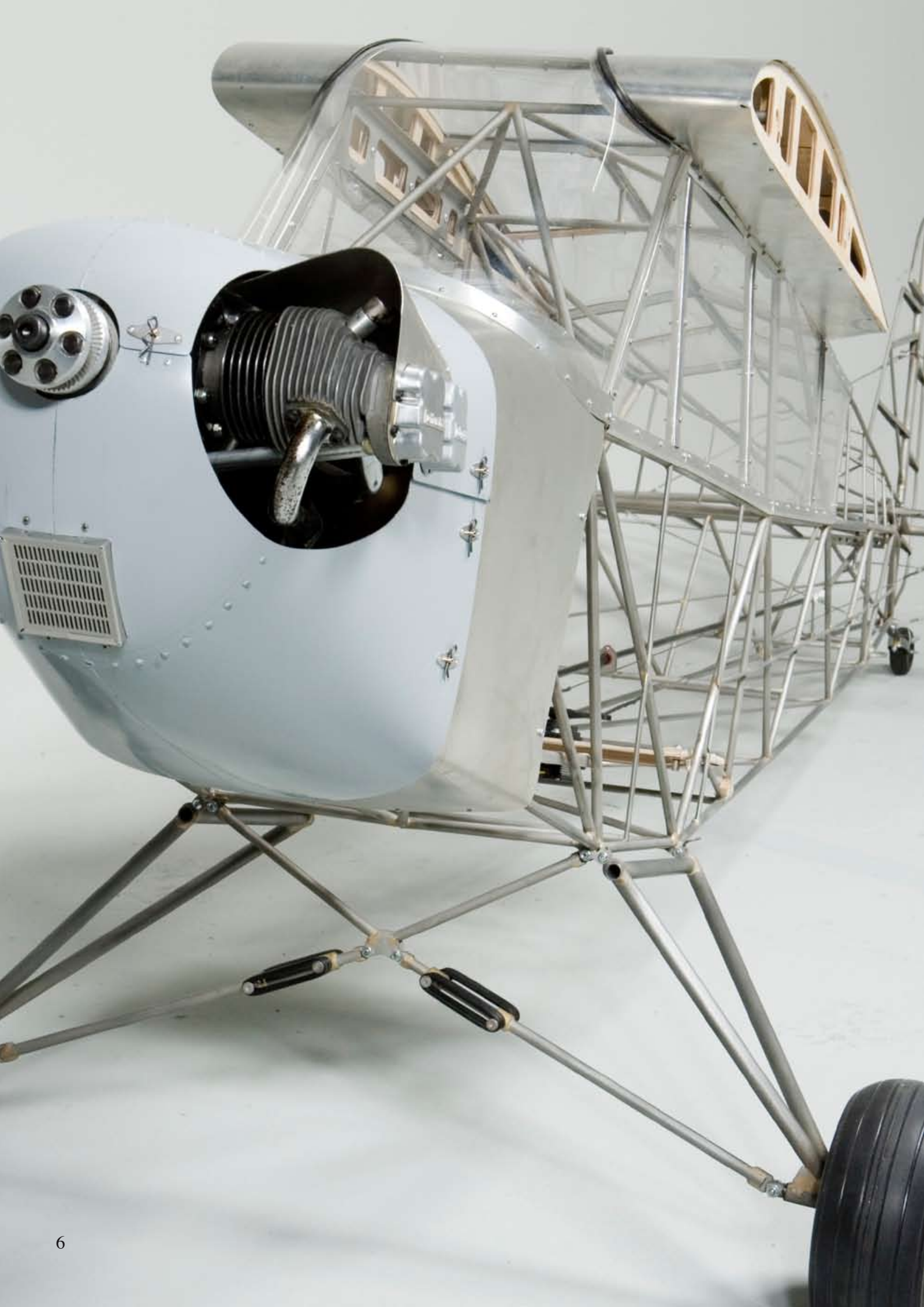
The pictures are of the prototype.
In the serial production we can have made
some improvements.

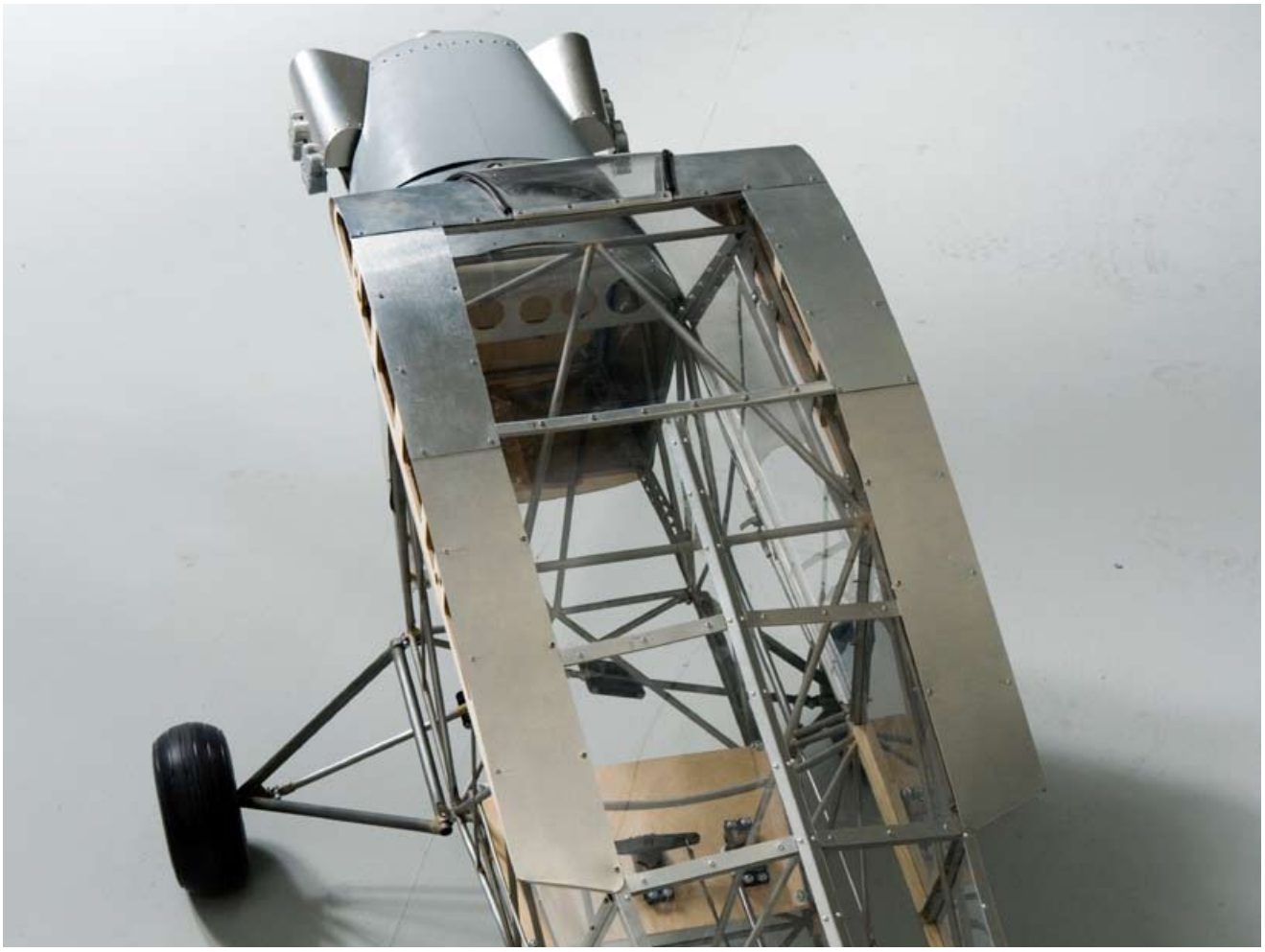


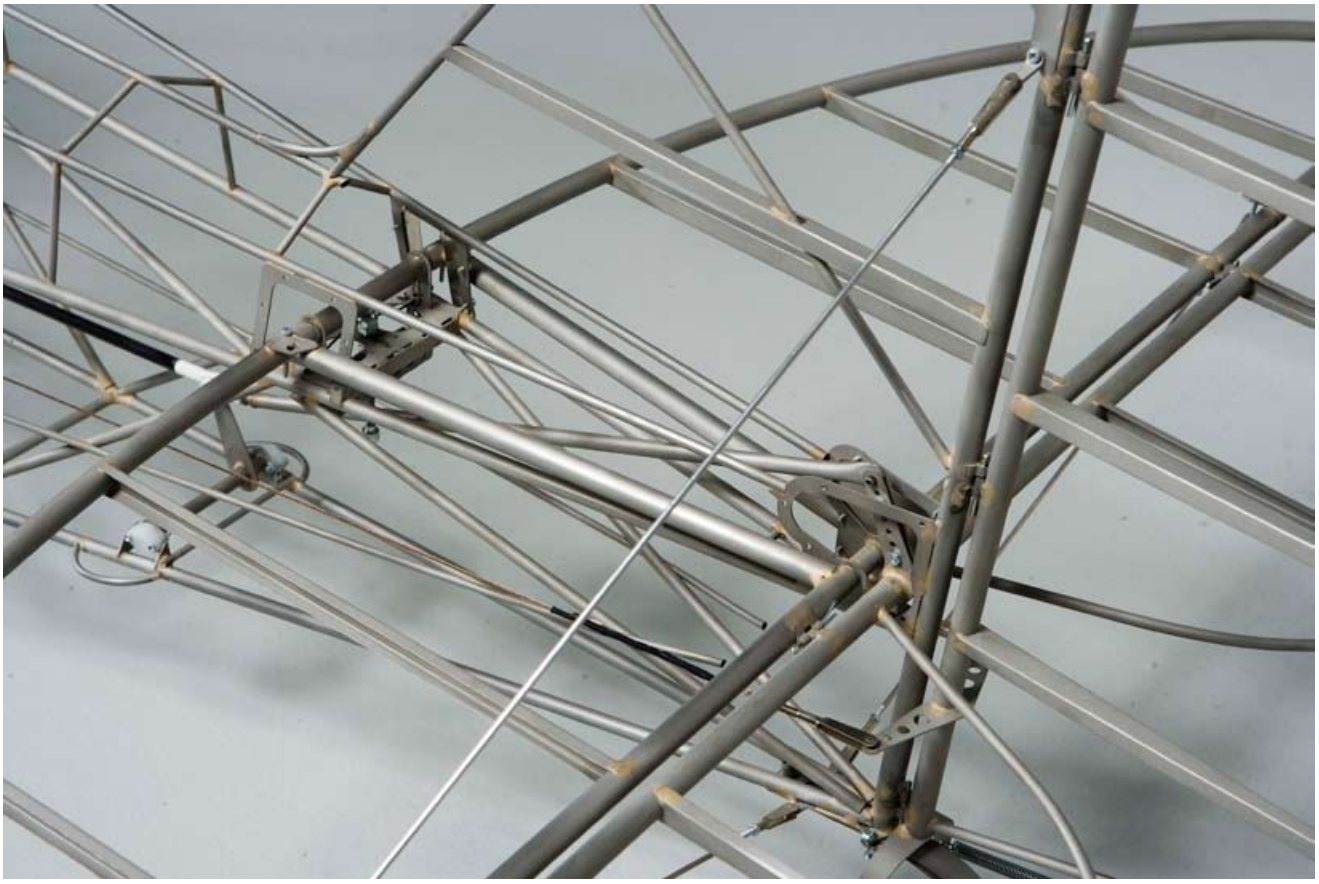


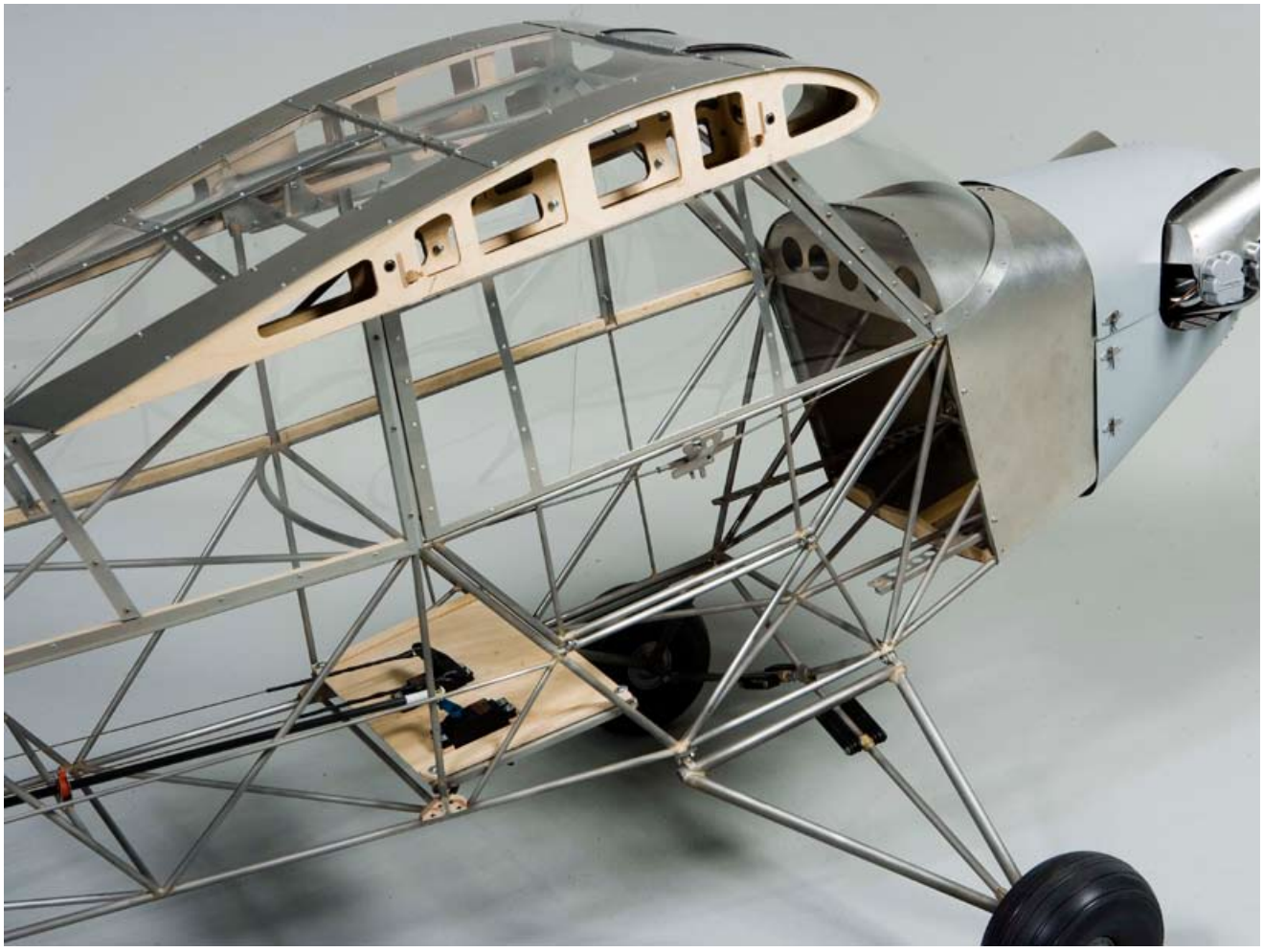


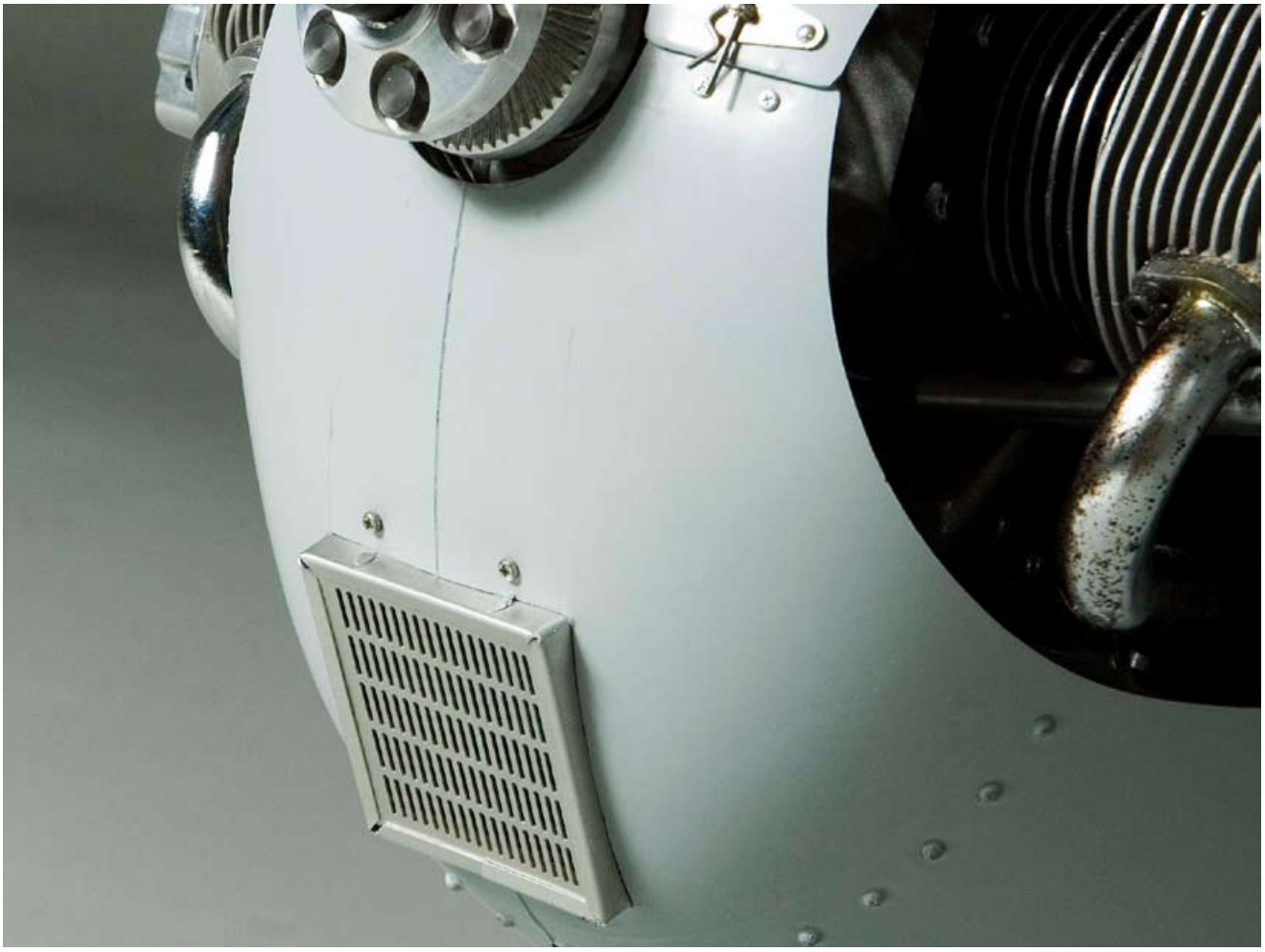








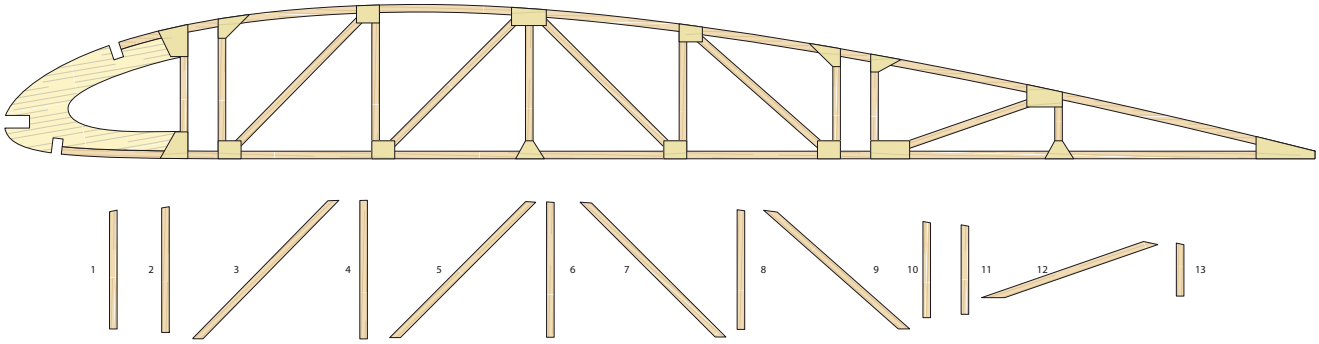




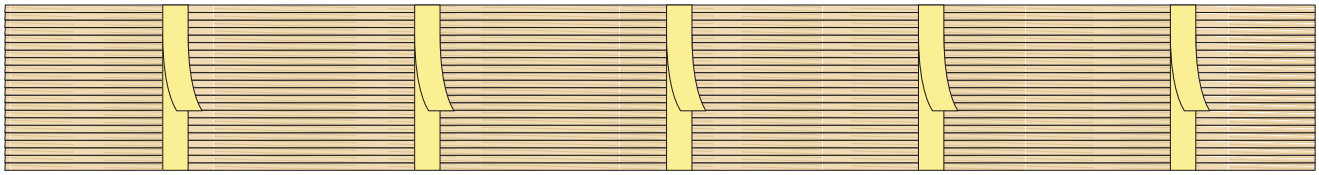

RPM
x100
ALTITUDE

2. WINGS

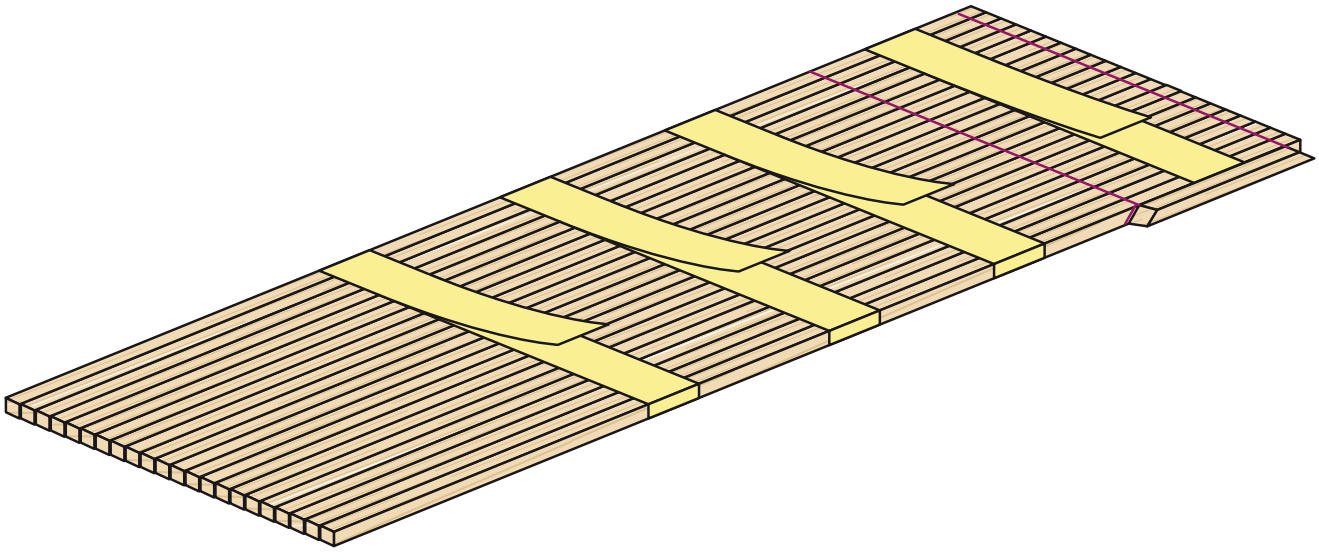
NOTE:
The pictures are of the prototype.
In the serial production we can have made some improvements.



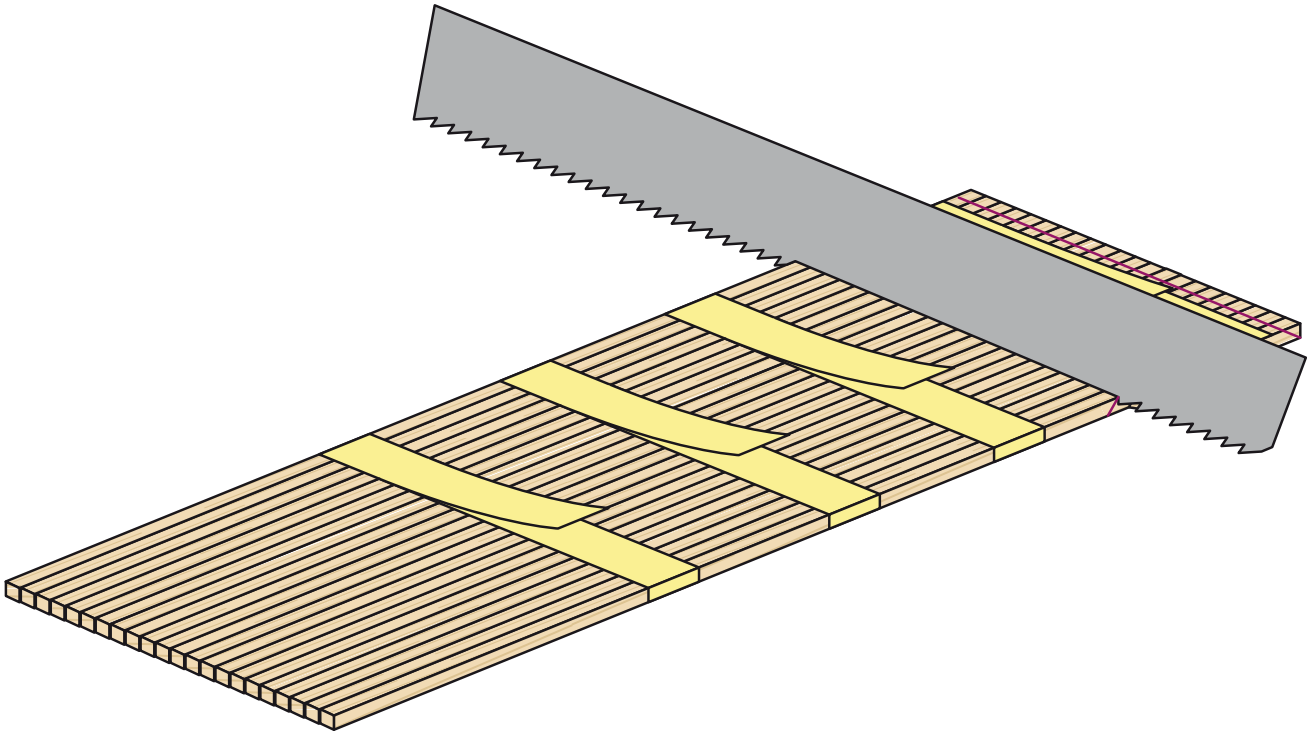
1.
Cut a set of bracing strips using the nylon mold as reference.



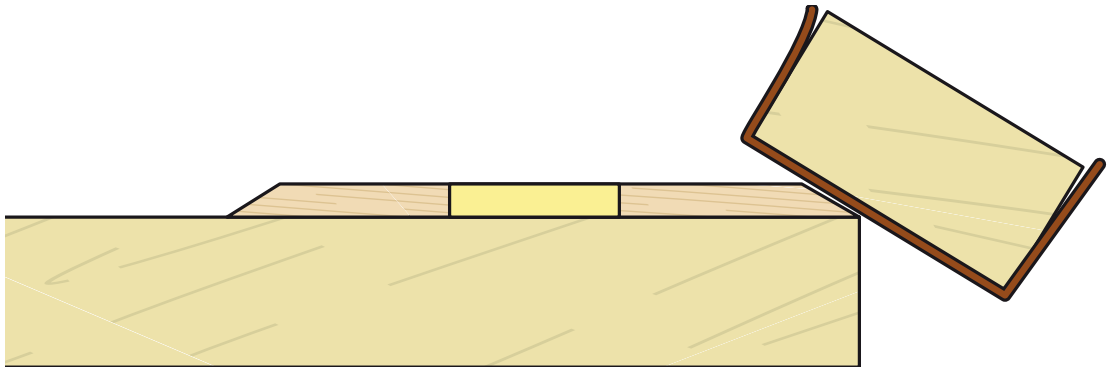
2.
Allign some strips and lock with some paper adhesive band.
The strips must be one for each rib that you need.



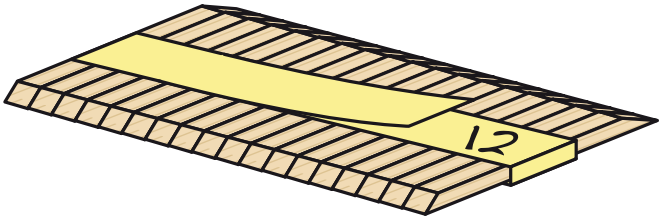
3.
Allign a bracing strip to side and trace the referring lines.



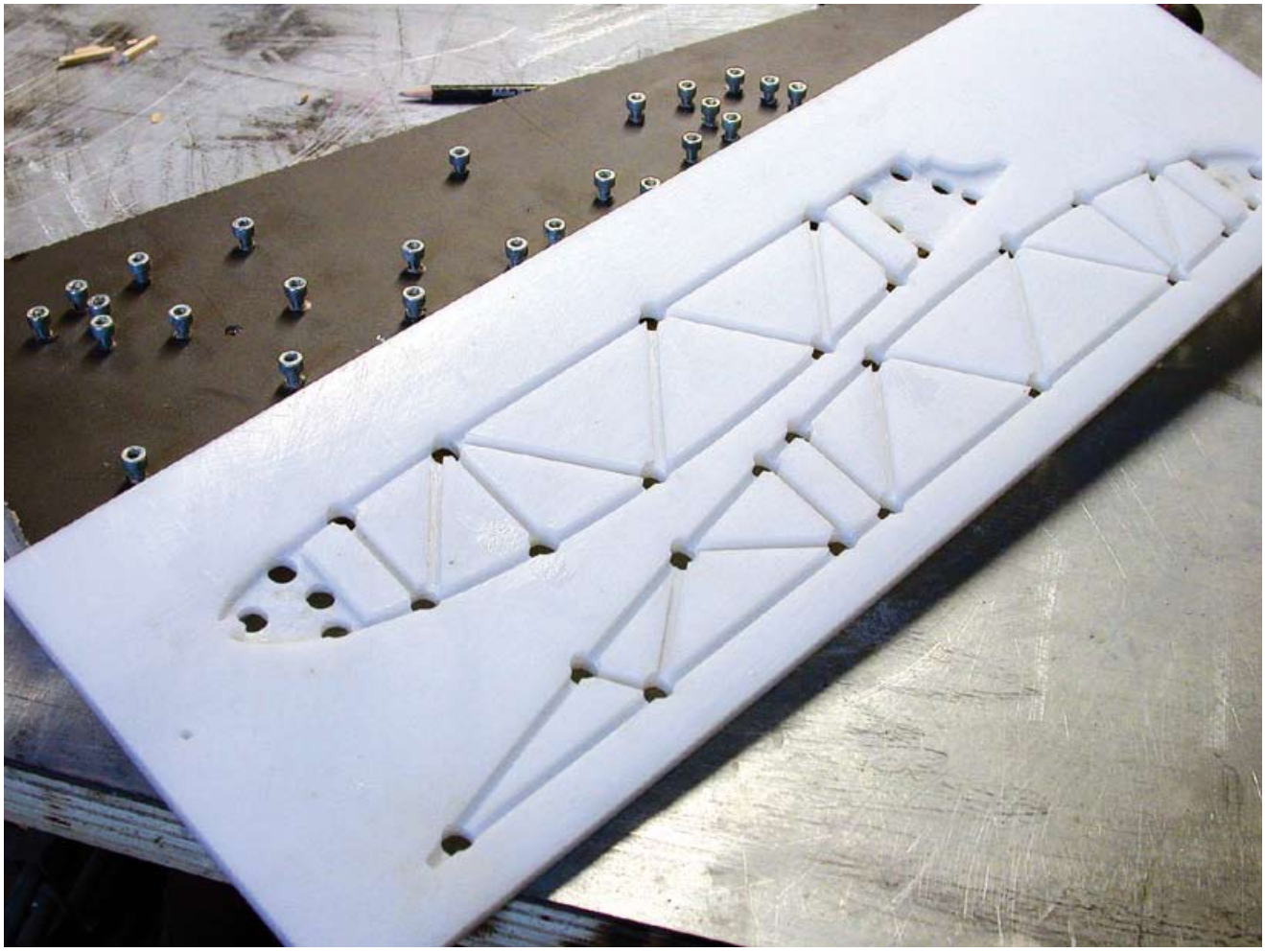
4.
Saw a complete set of bracing strips.
You can use also a disk saw with angle regulation.

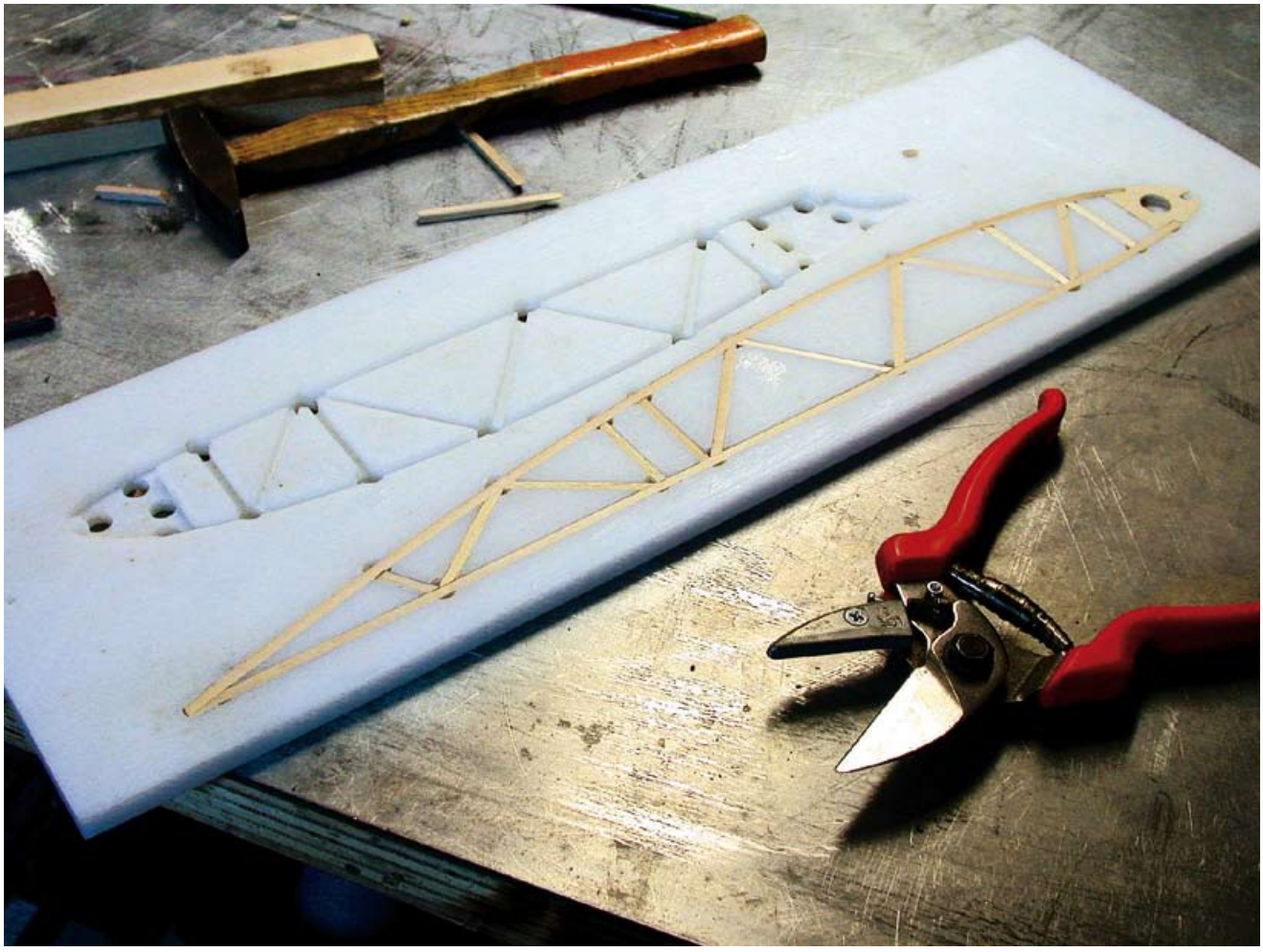


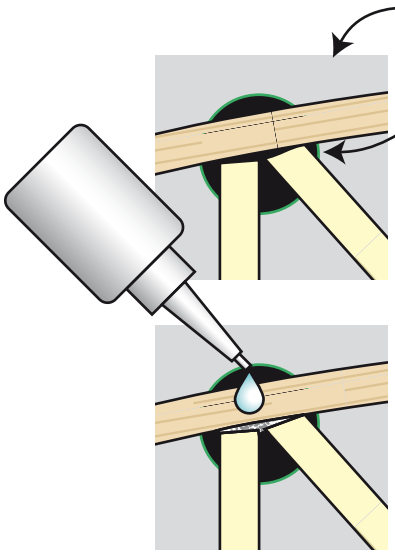
5.
Refine the angle with sandpaper.



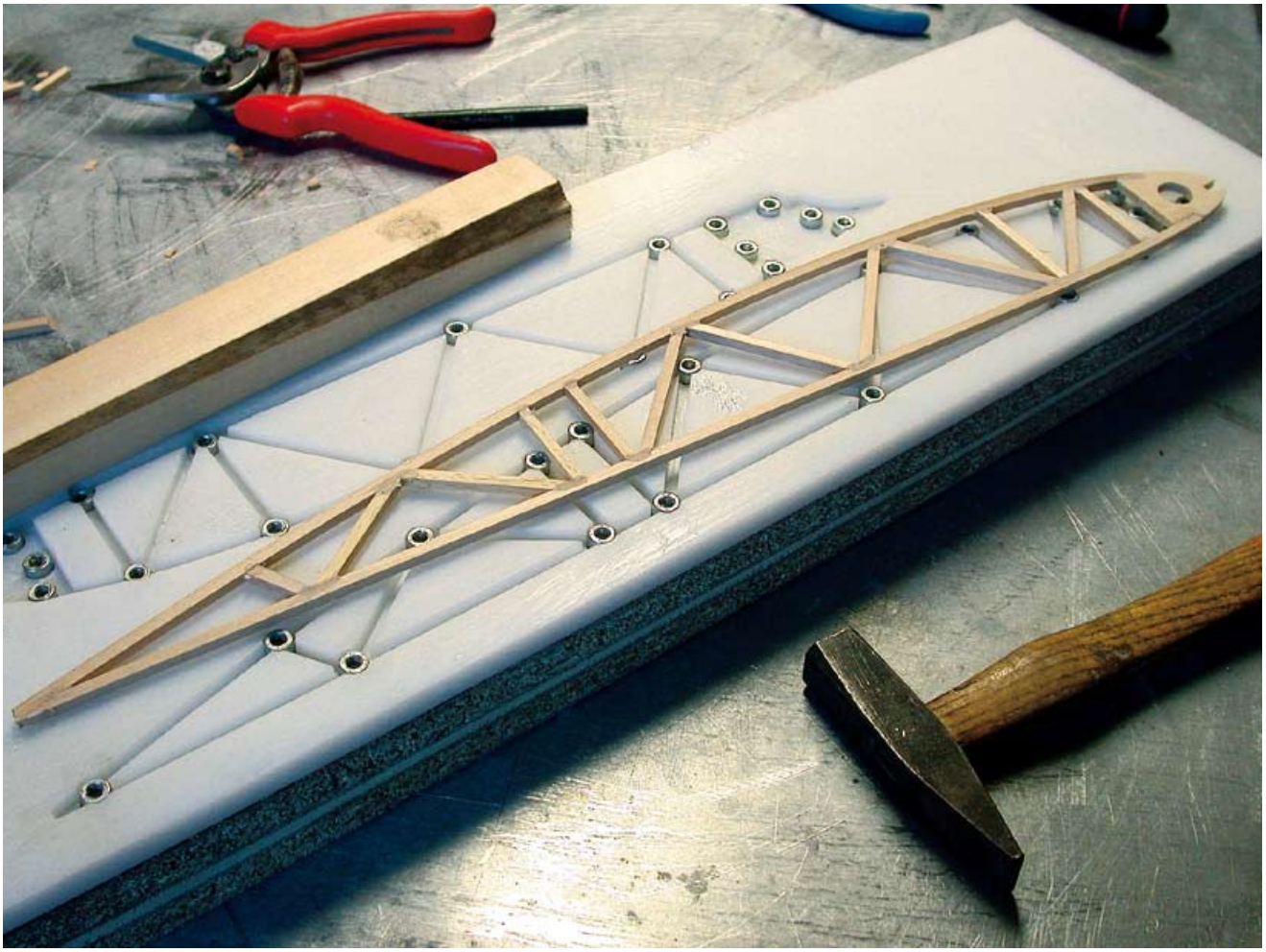
6.
Mark each set with a referring nr.

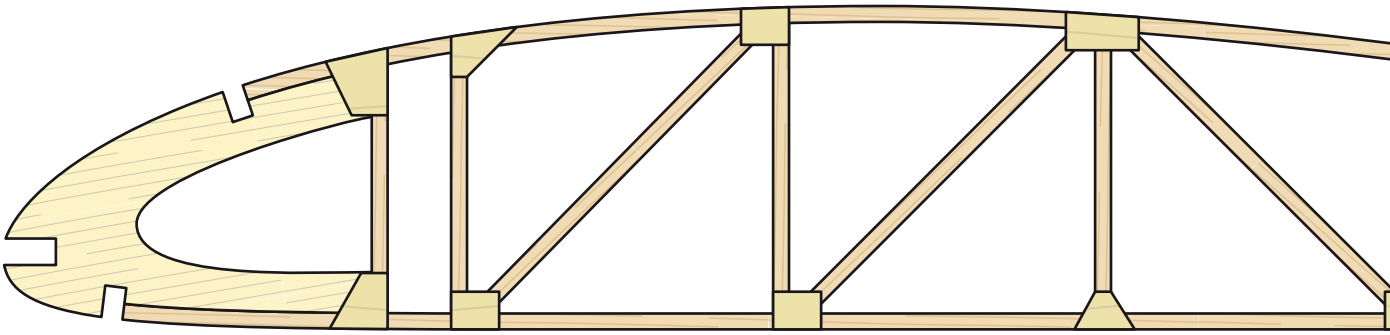


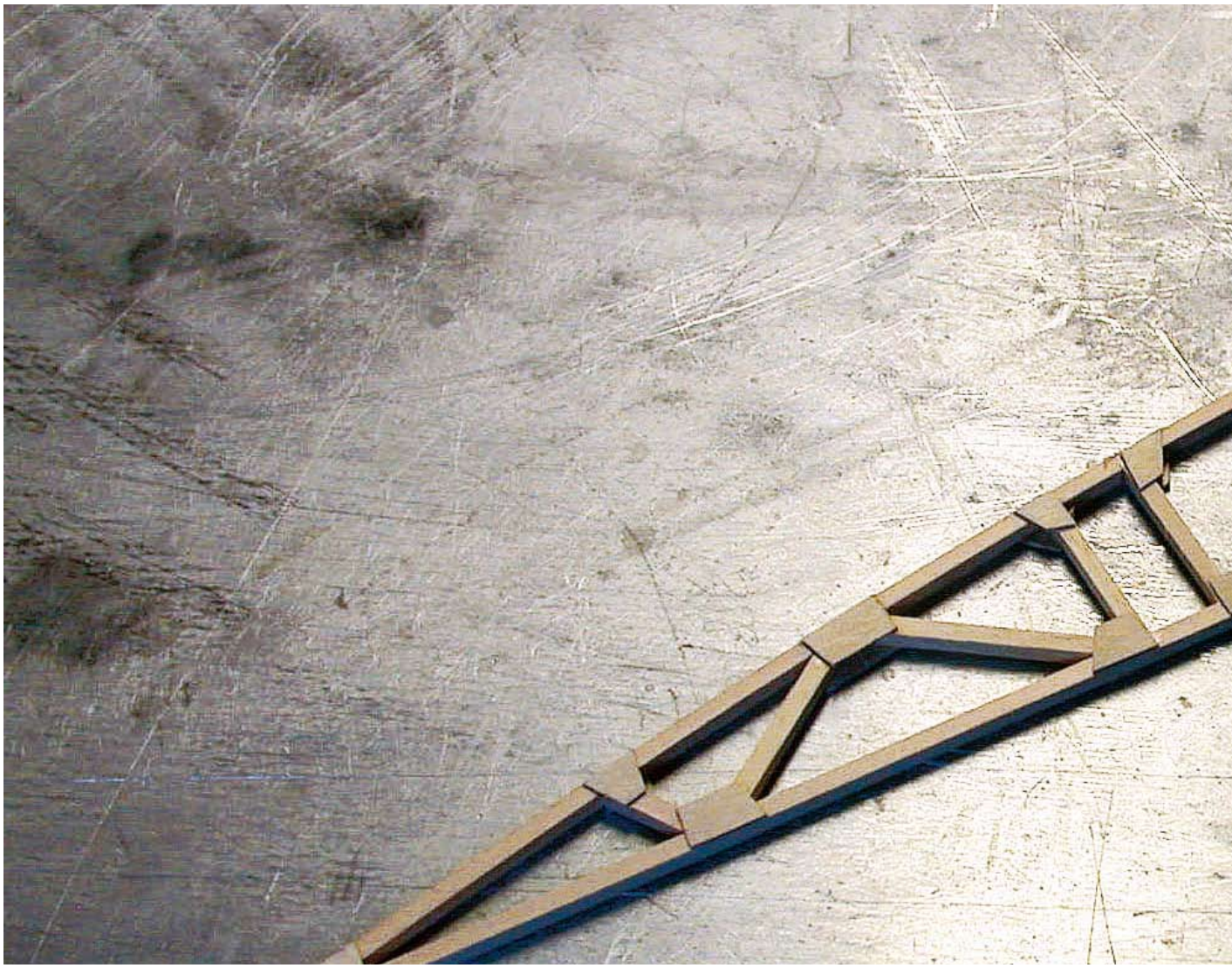


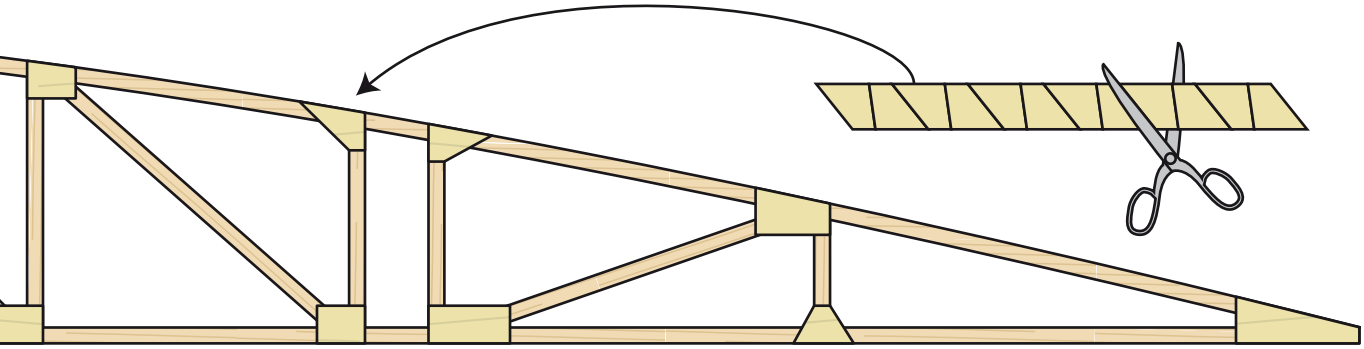


Note: the ribs shown are of the Bücker kit.
For the Piper ribs use the same procedure.

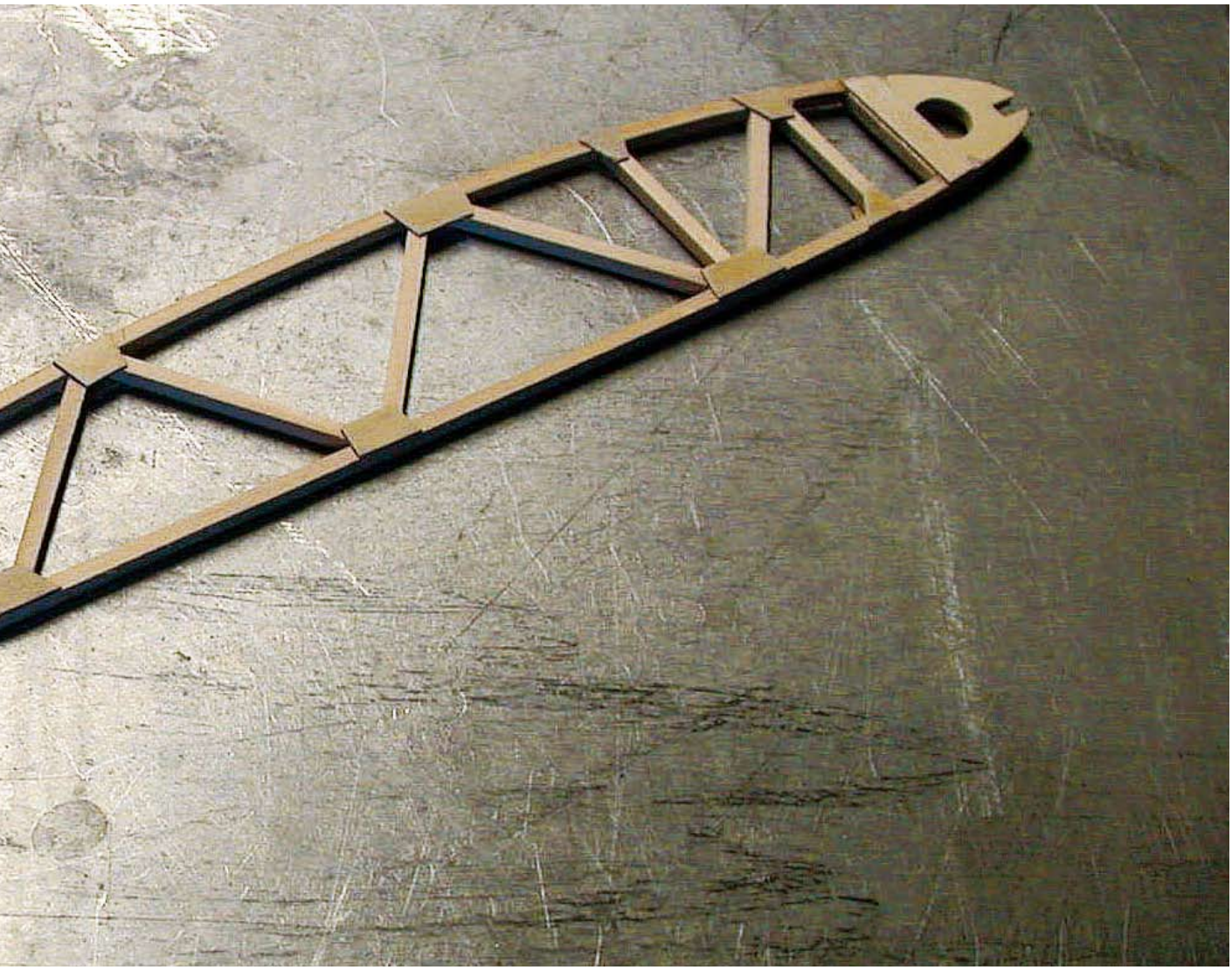




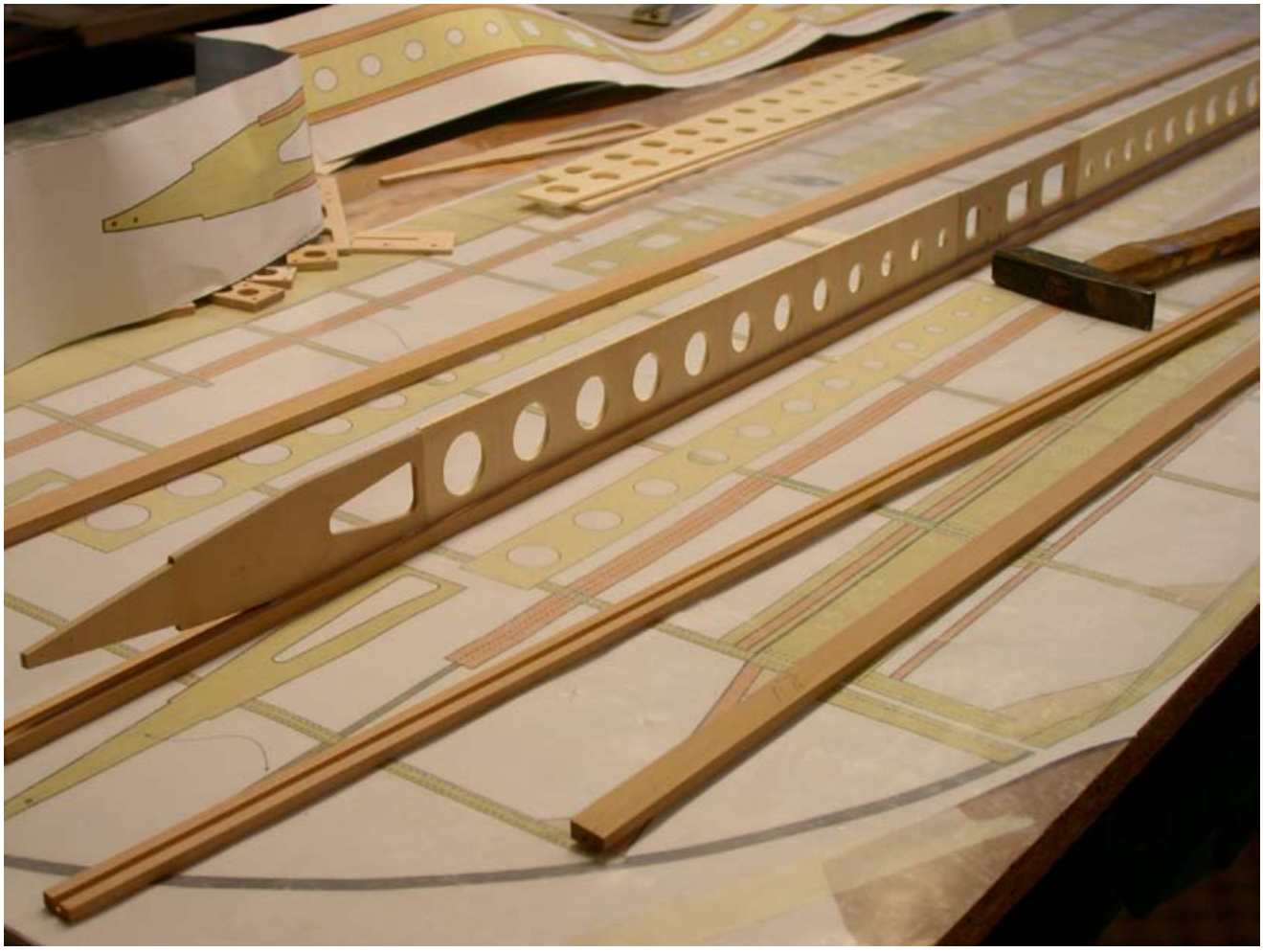


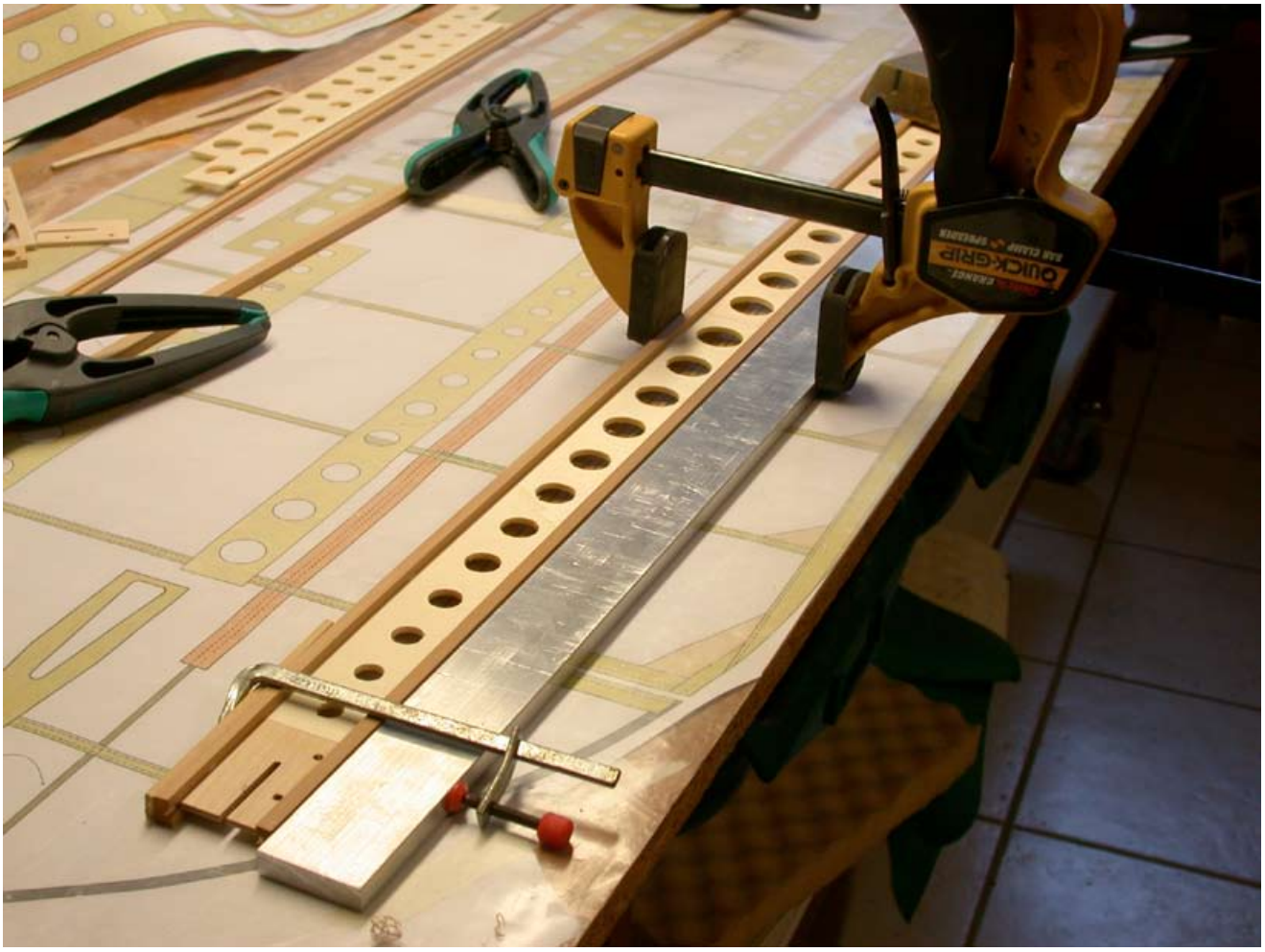


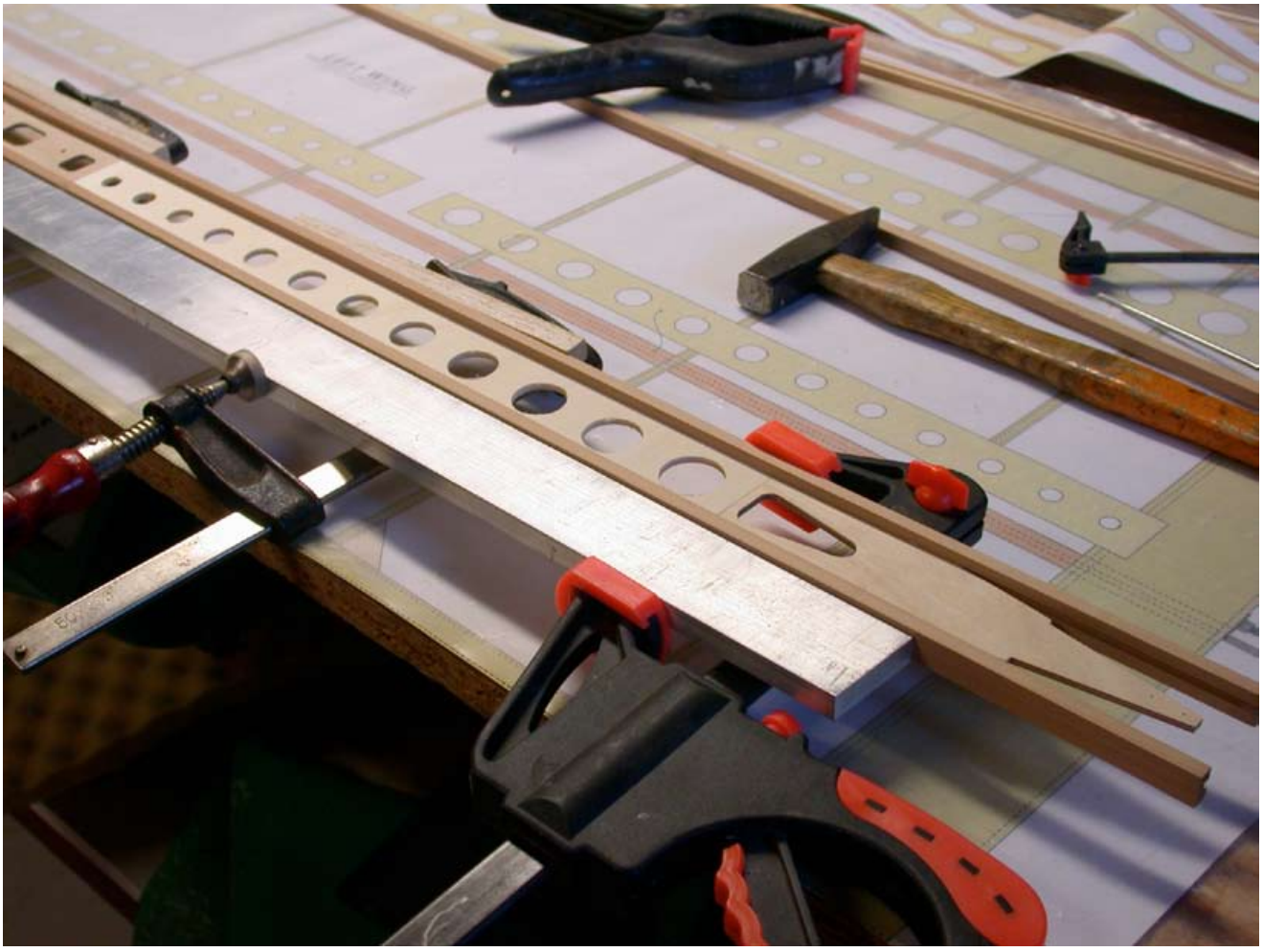
MAKE THE GUSSETS WIYH A 0,8 MM PLY STRIPS

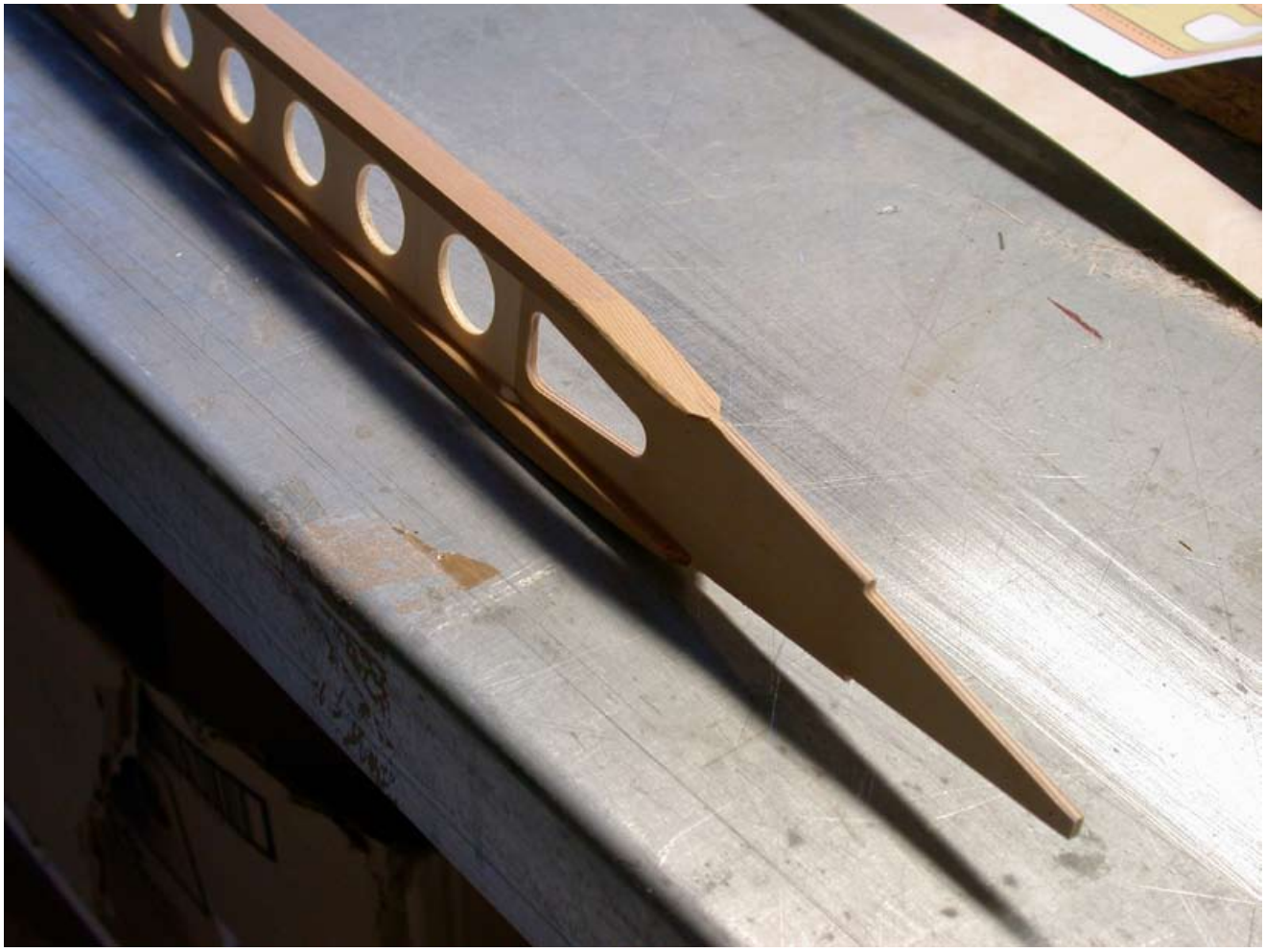


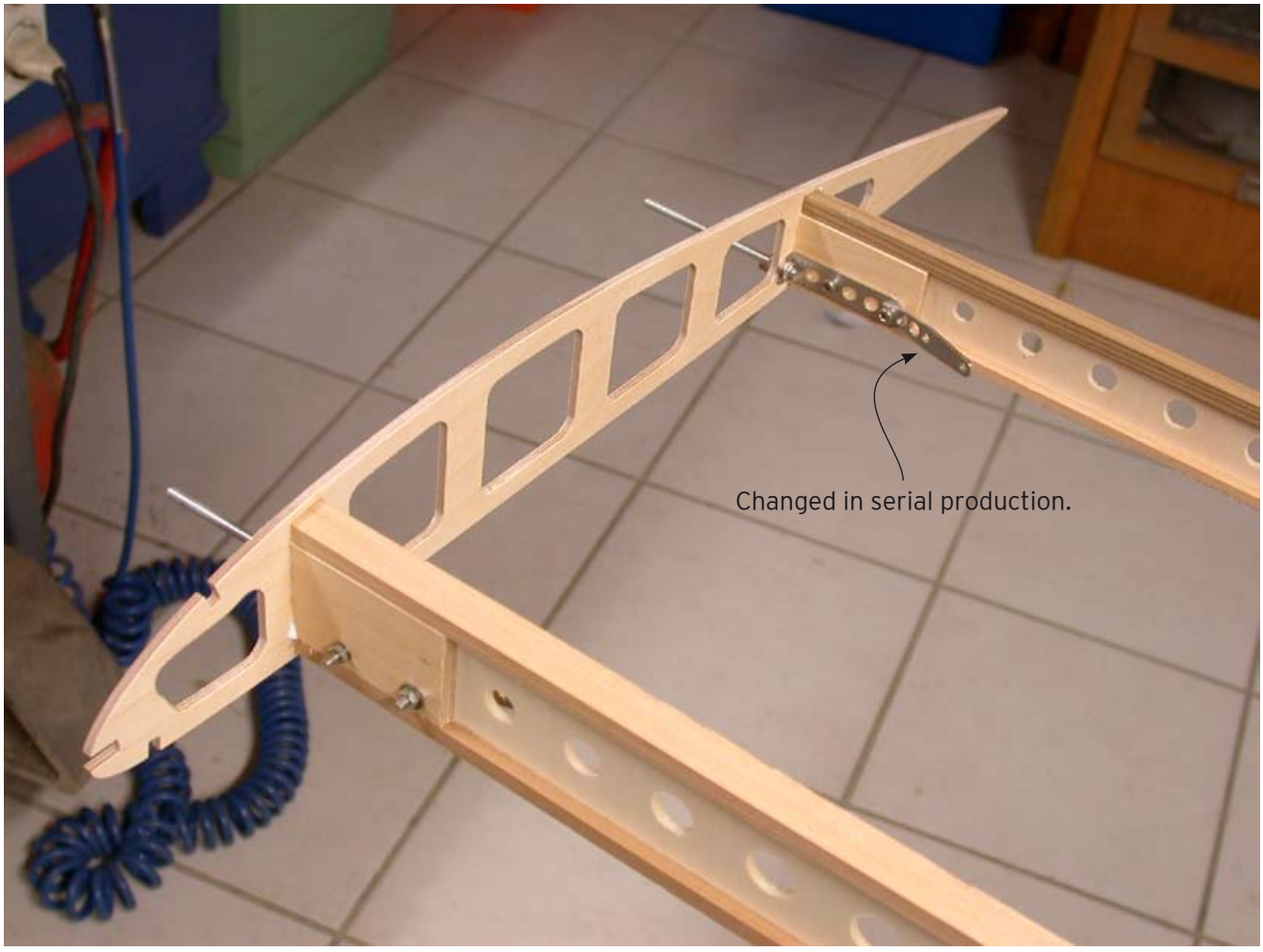
Don't hammering directly on the spar or on the diaphrams, use a strip of wood to protect.

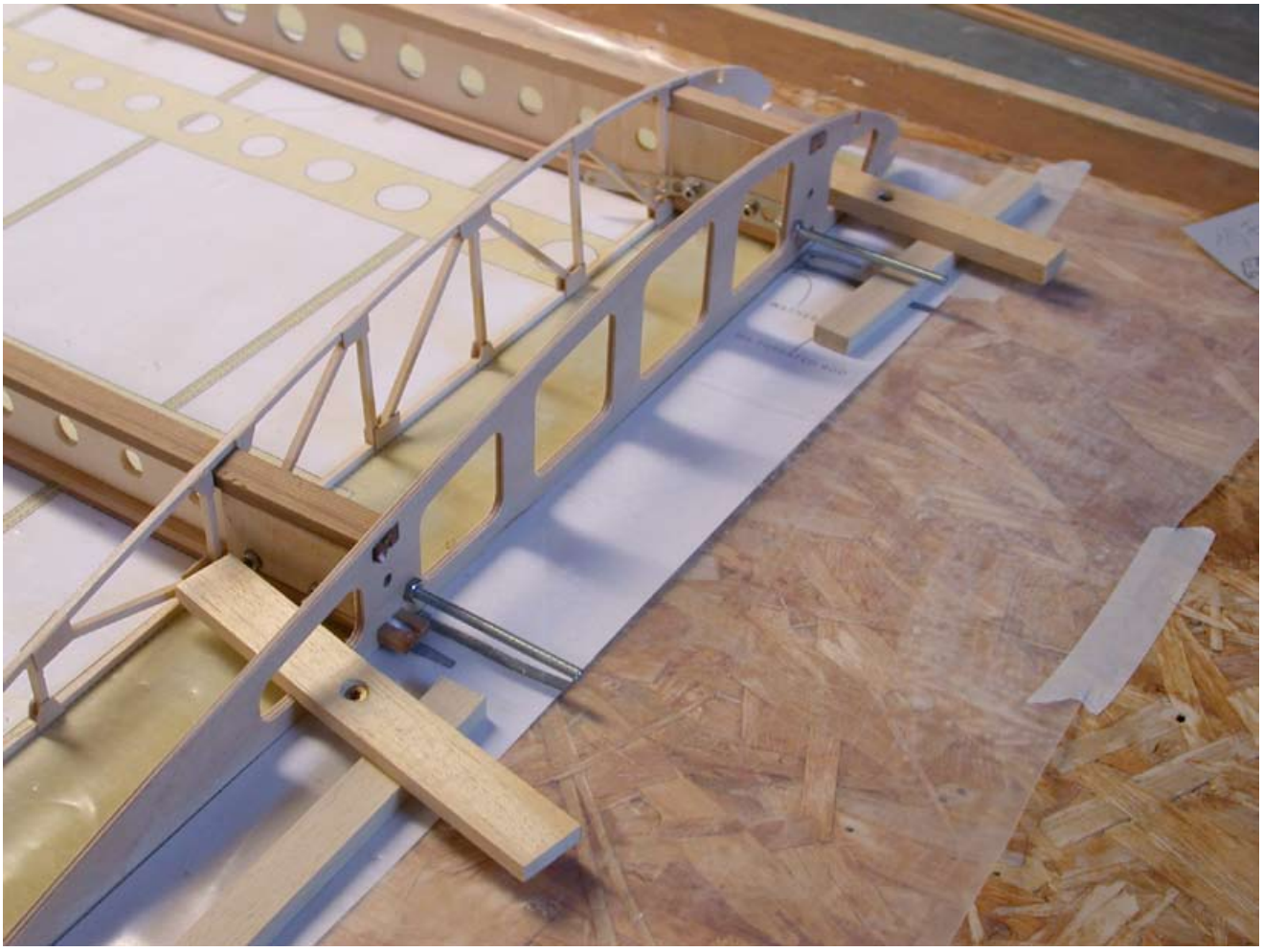


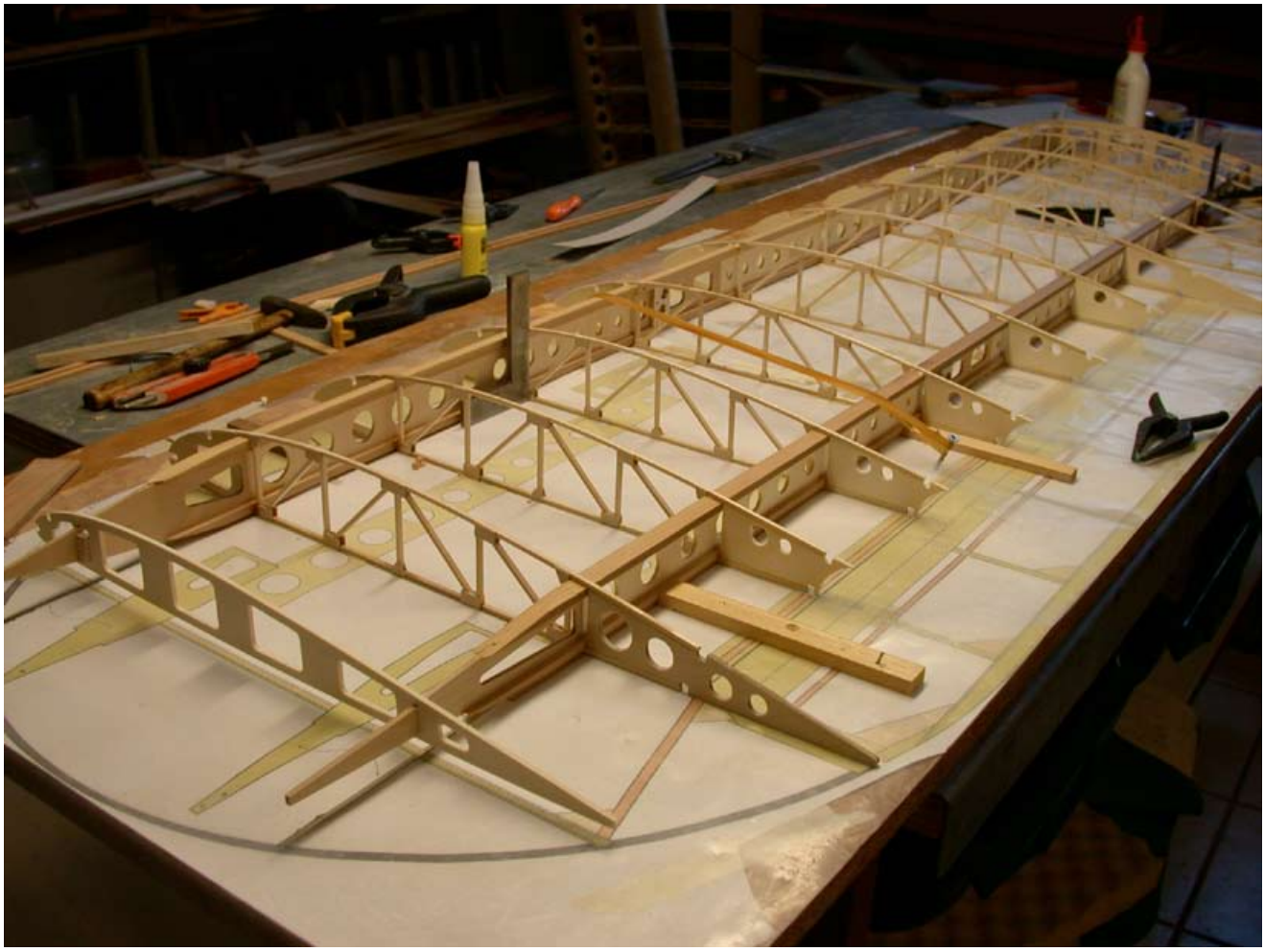

QUICK-GRIP

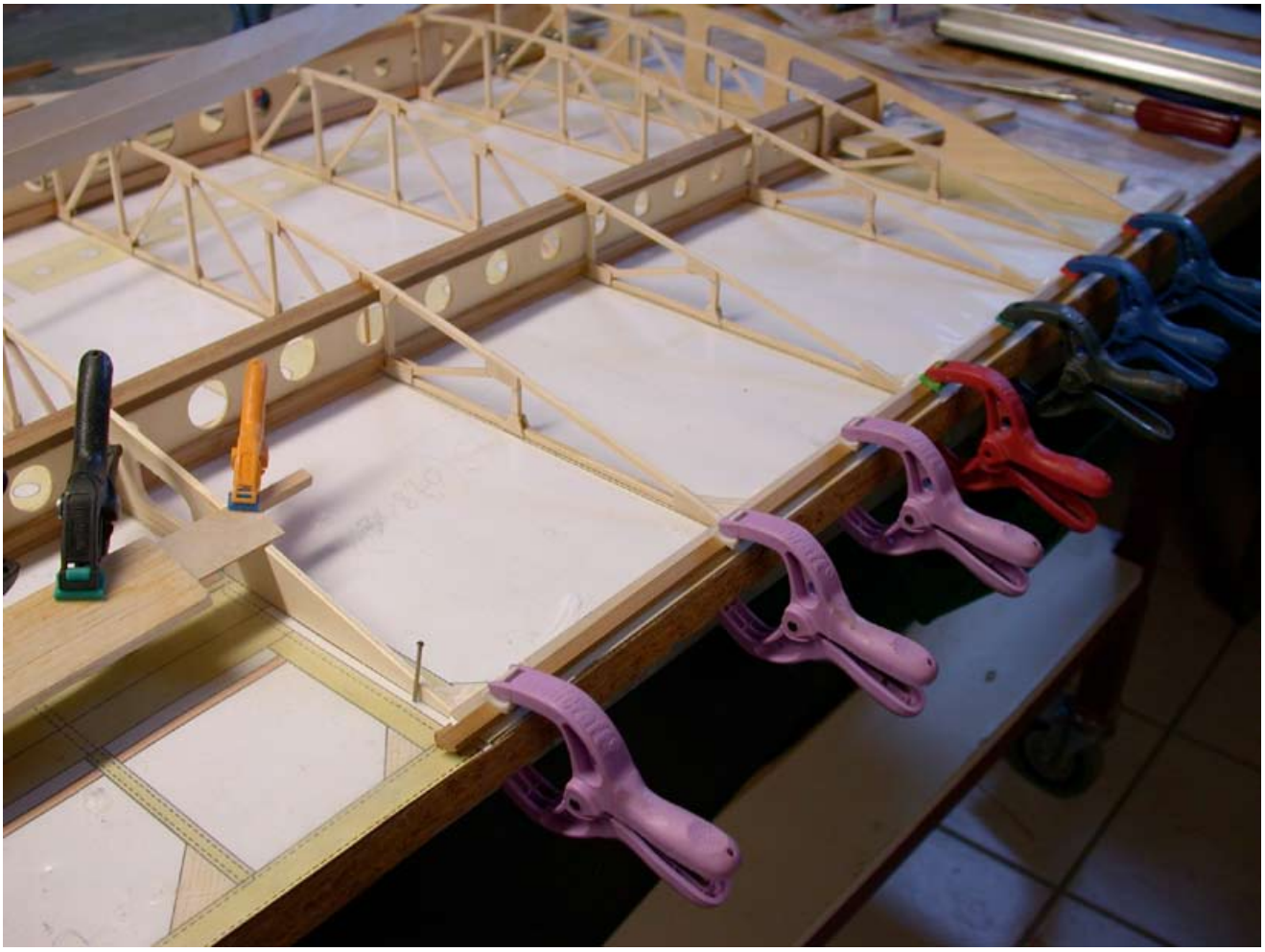


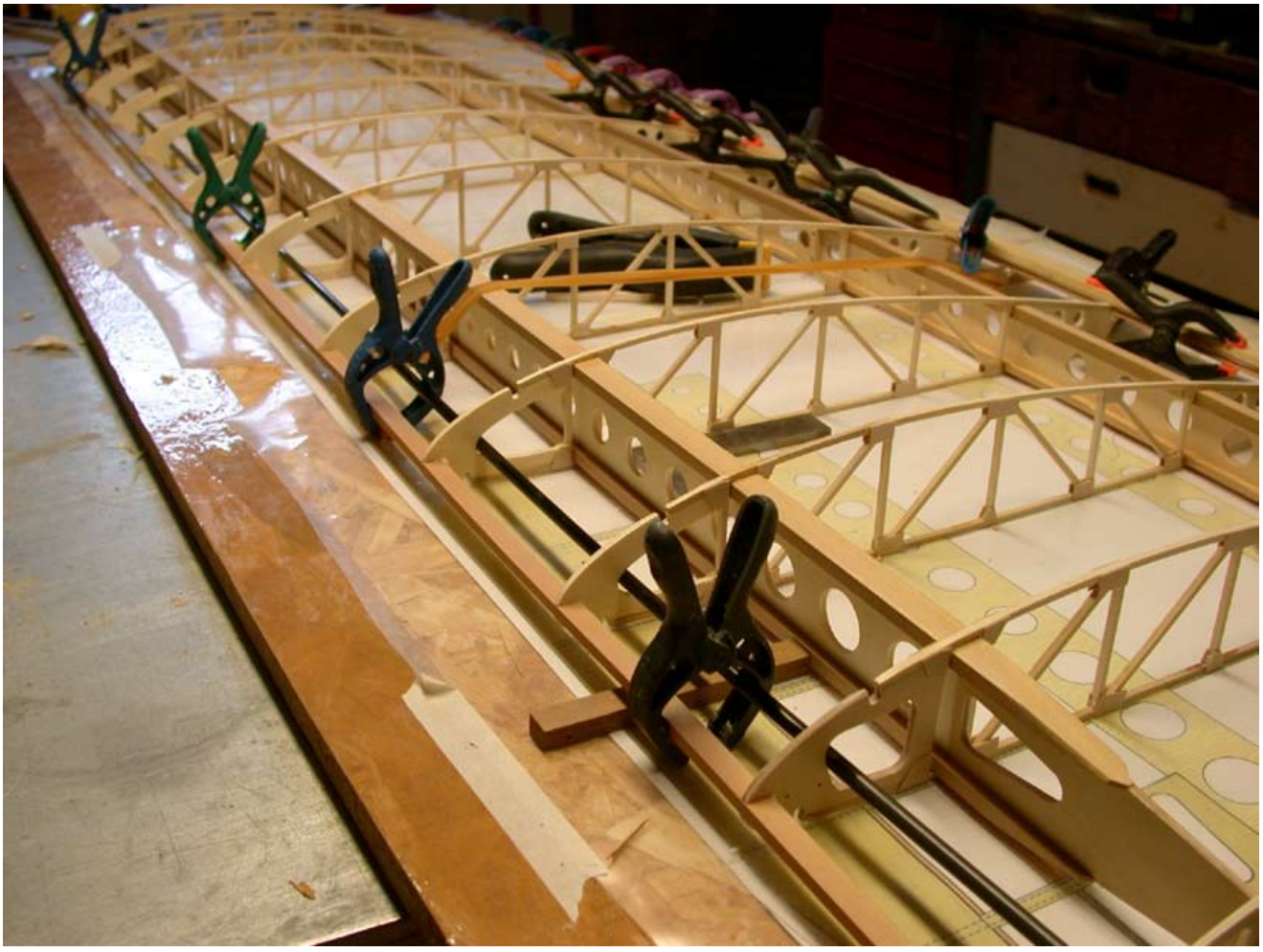


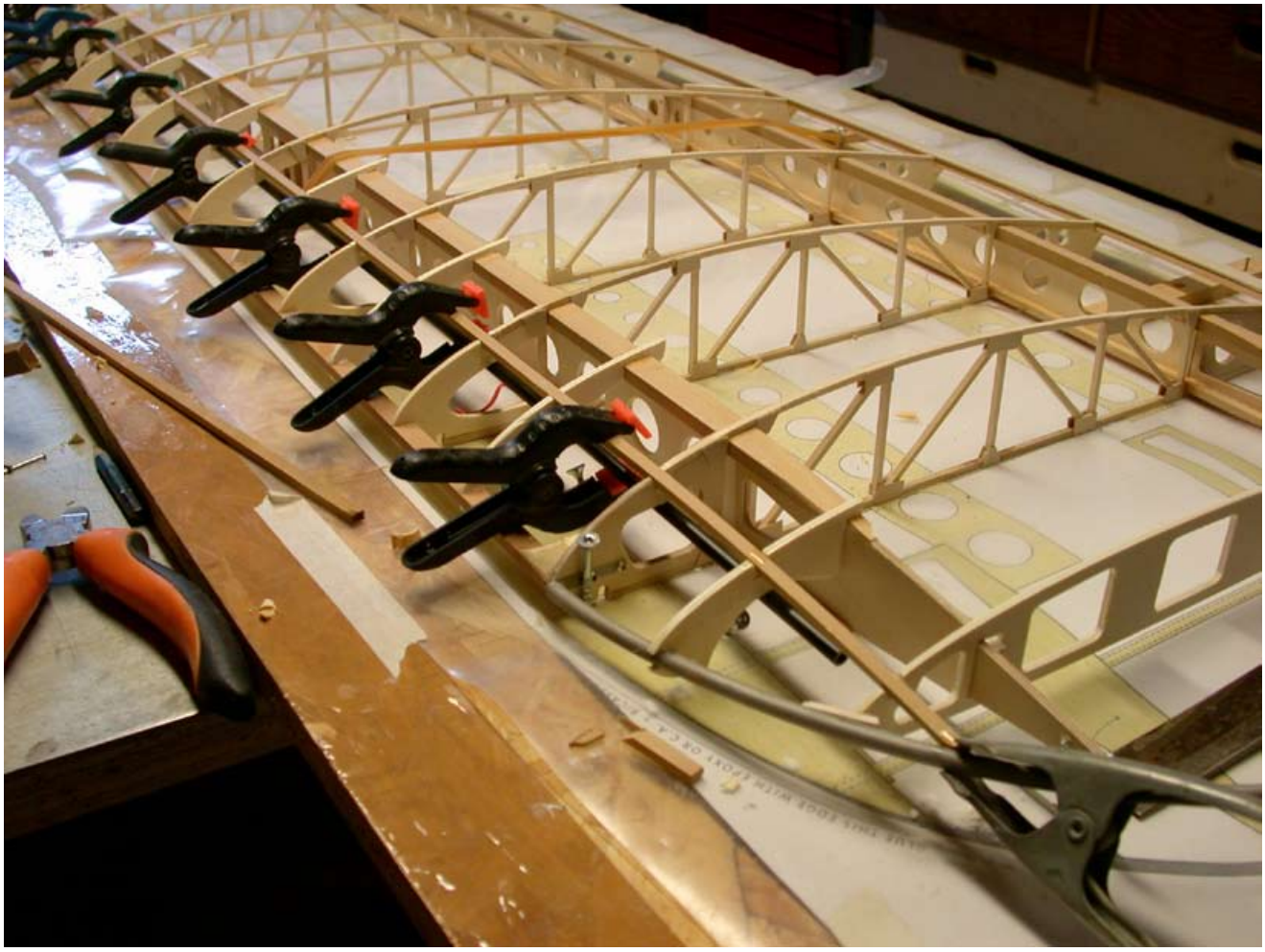

Changed in serial production.

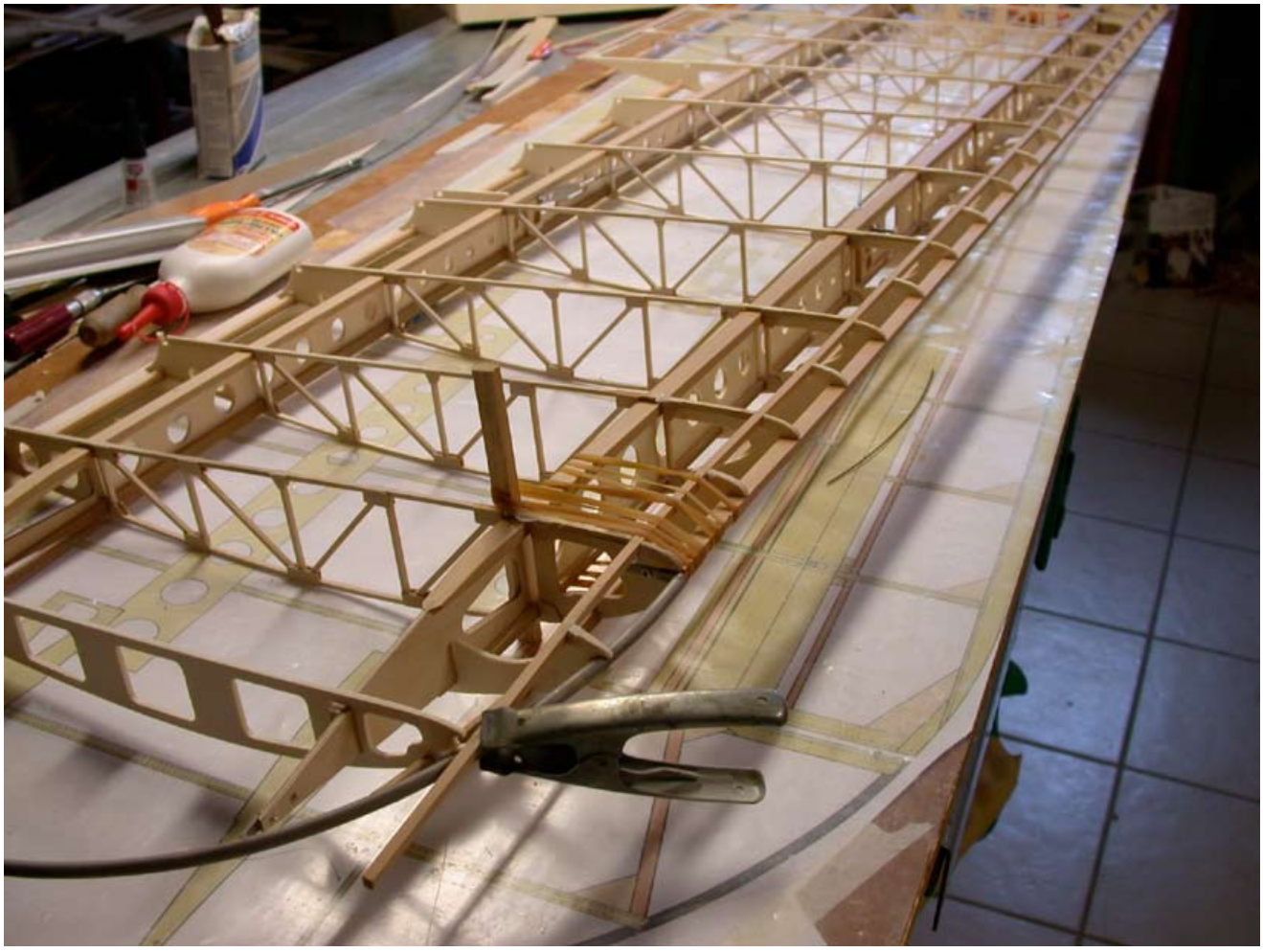


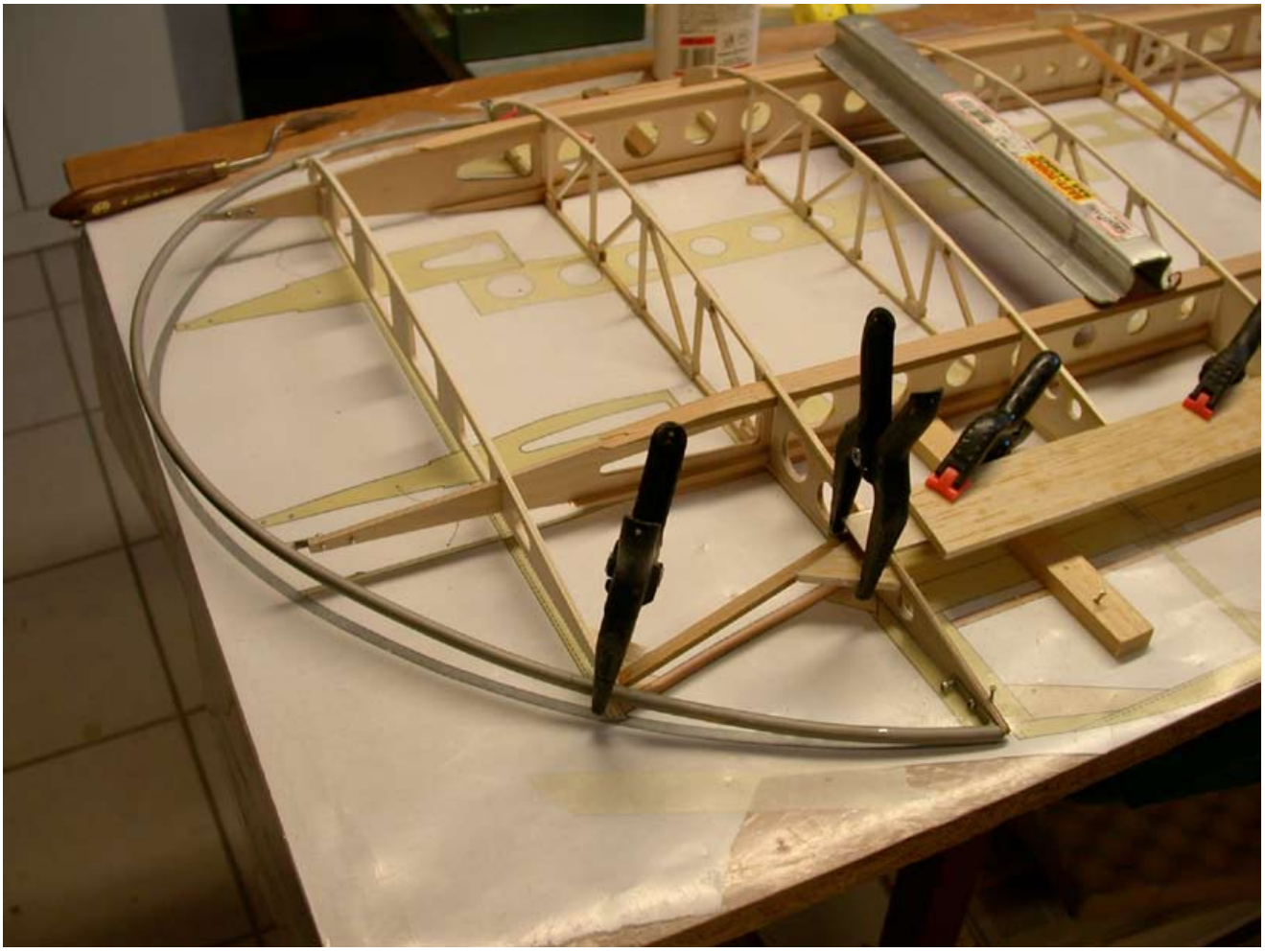


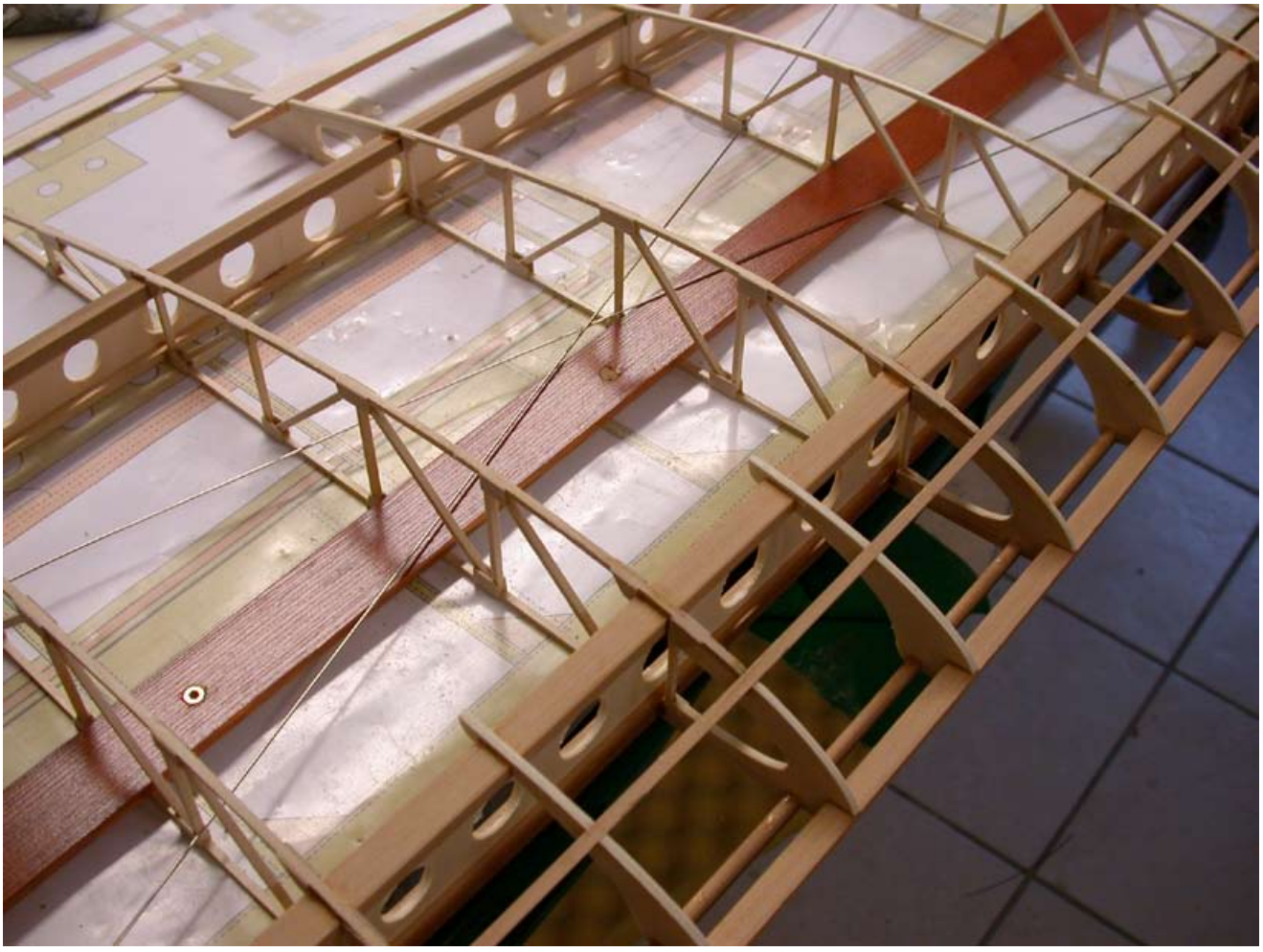


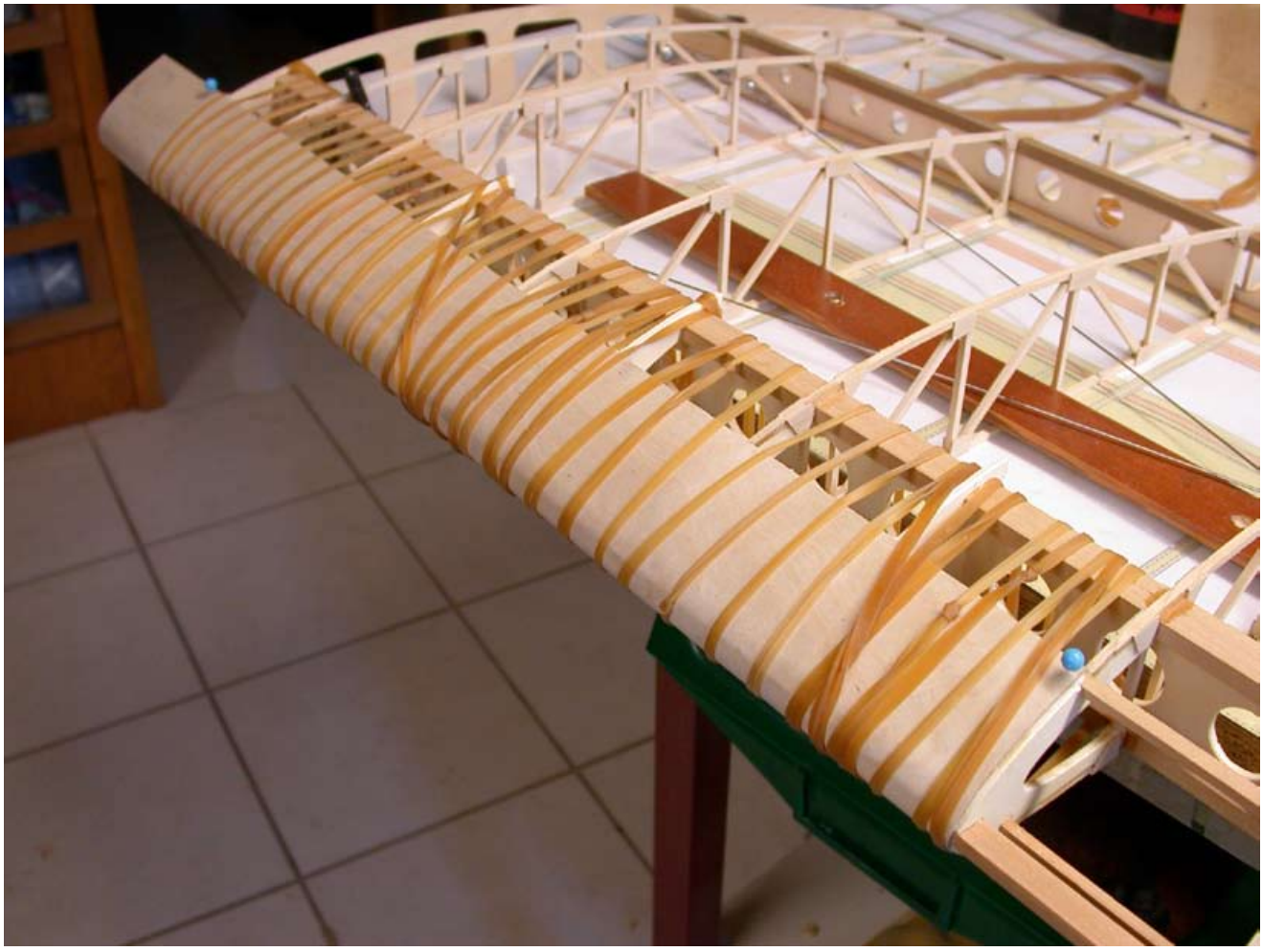


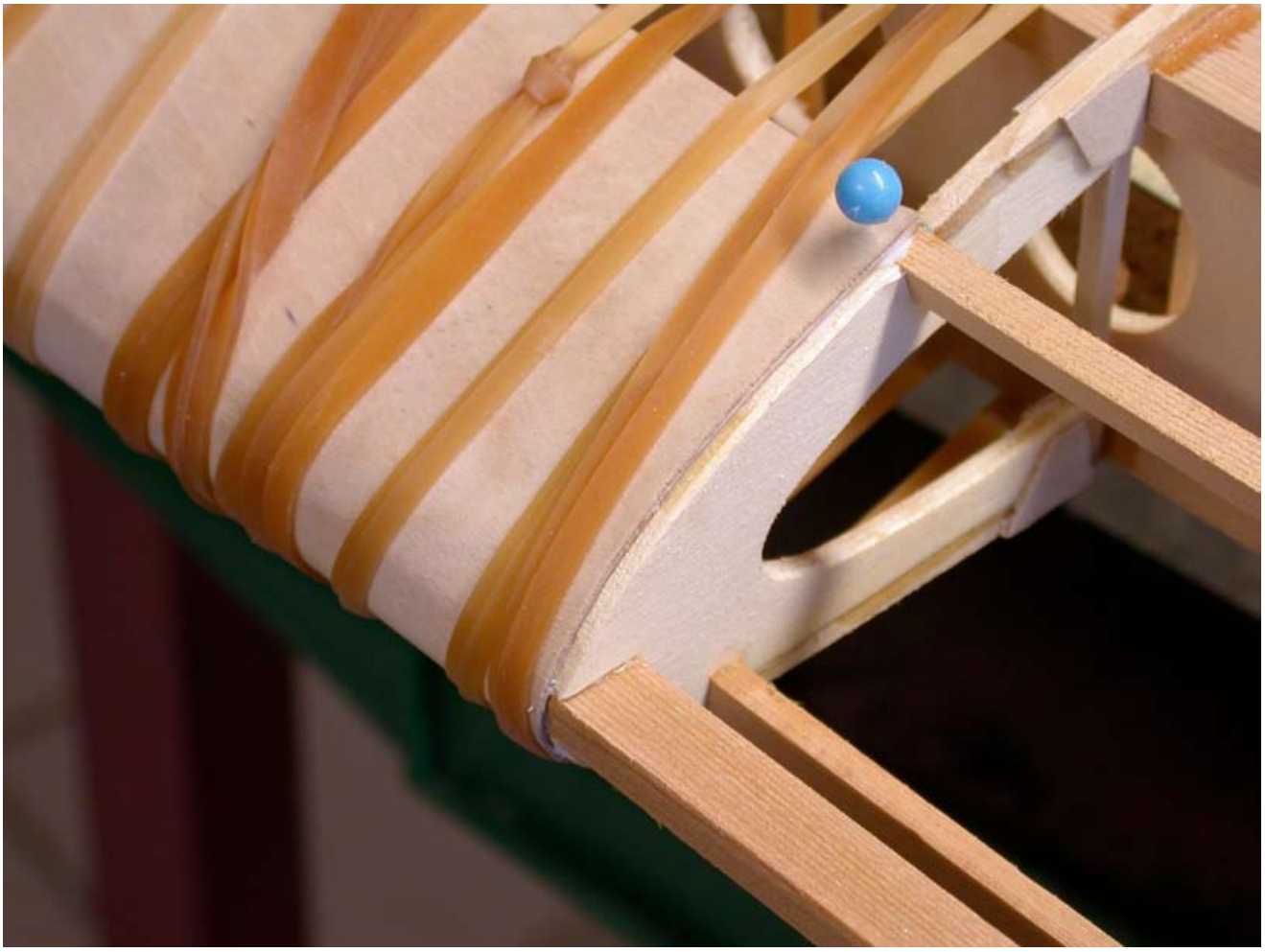


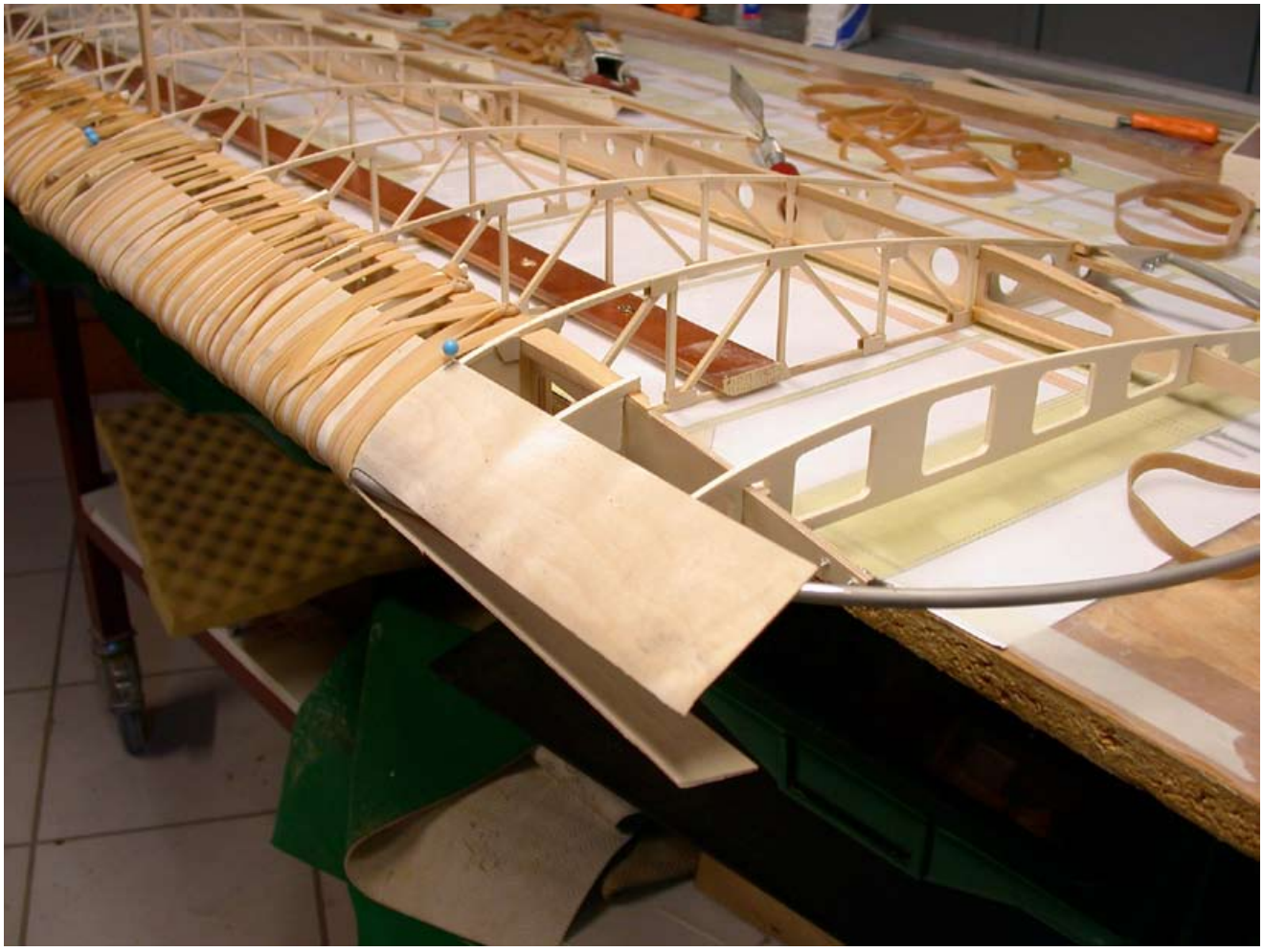


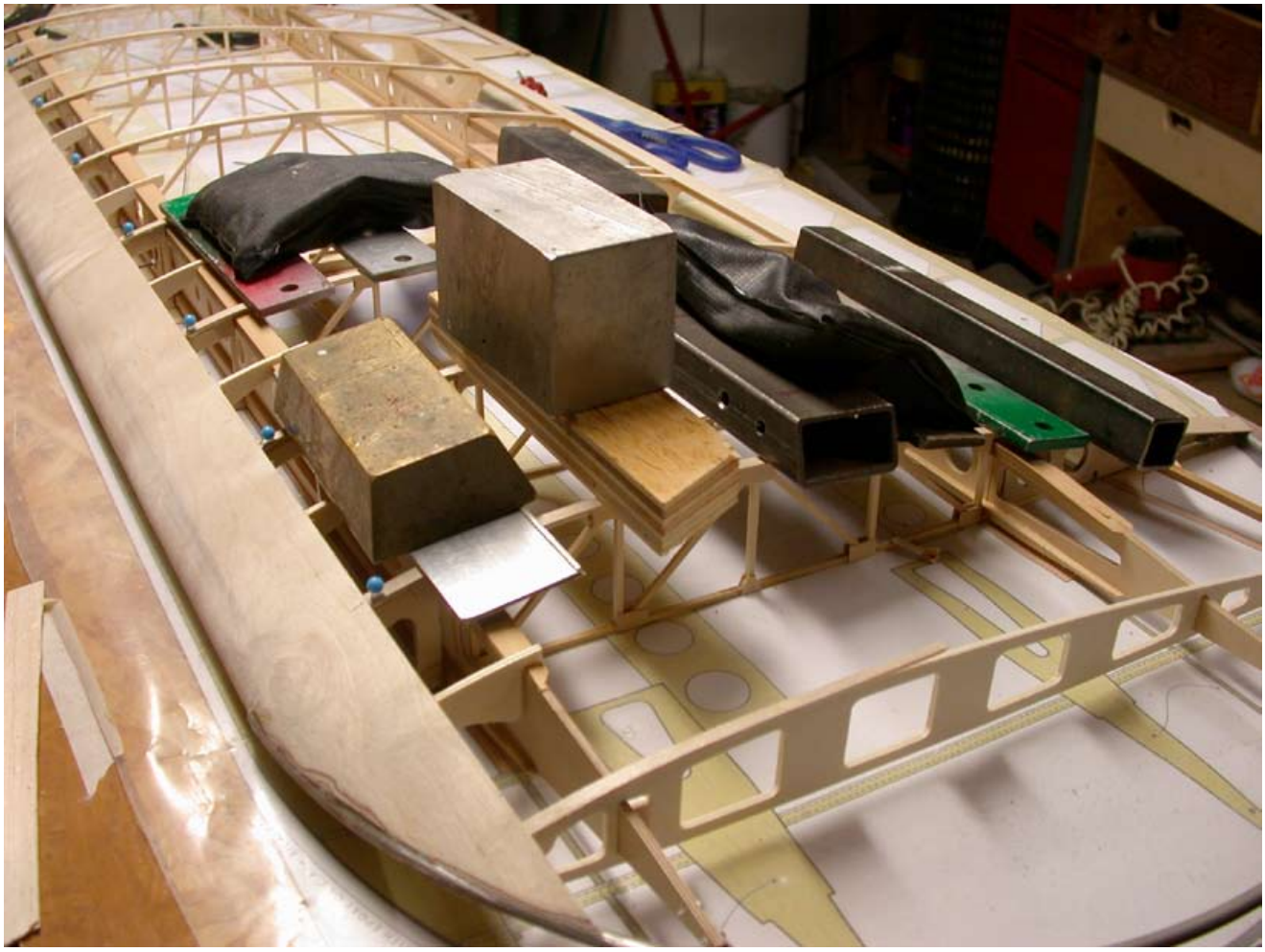


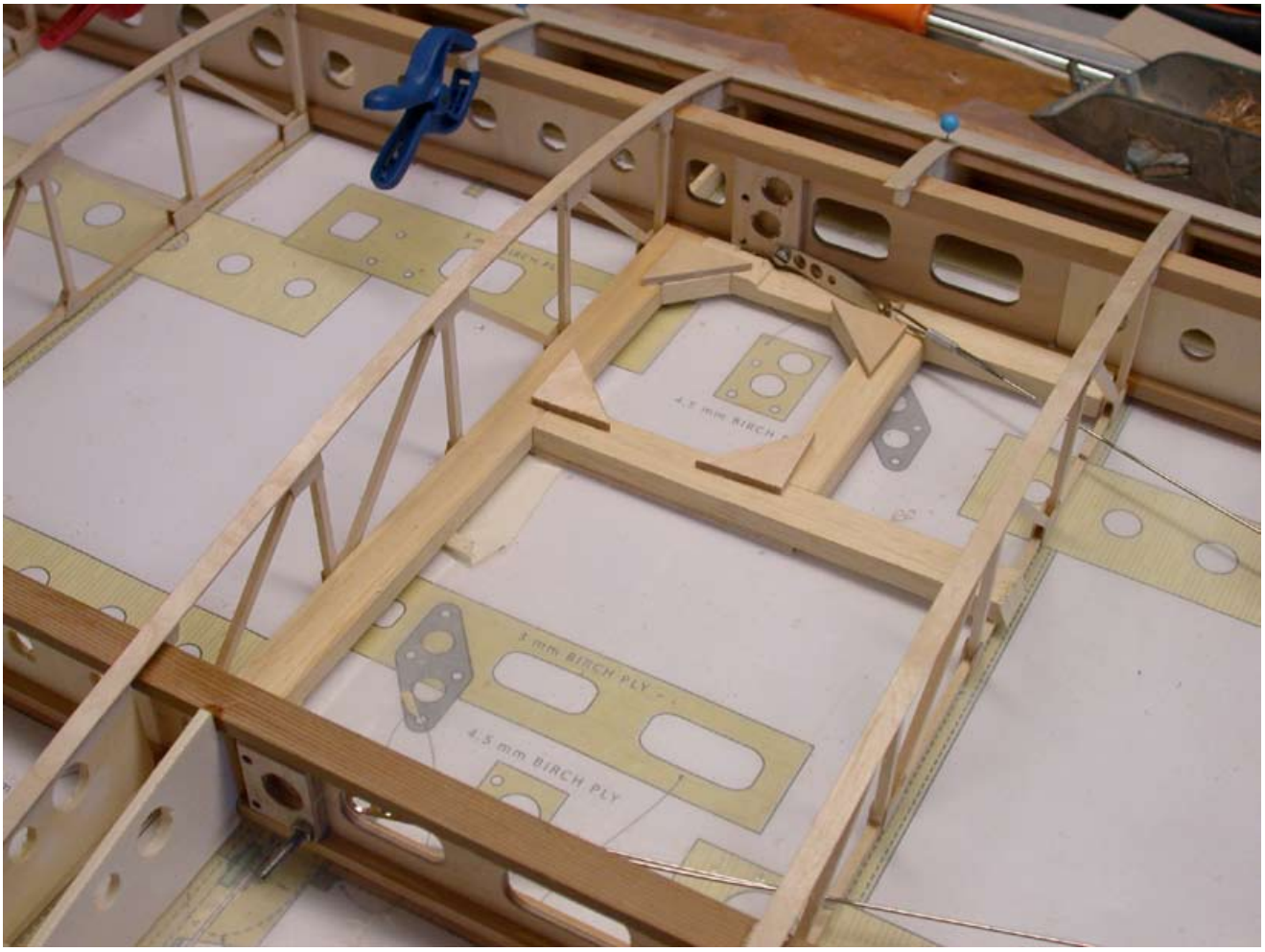


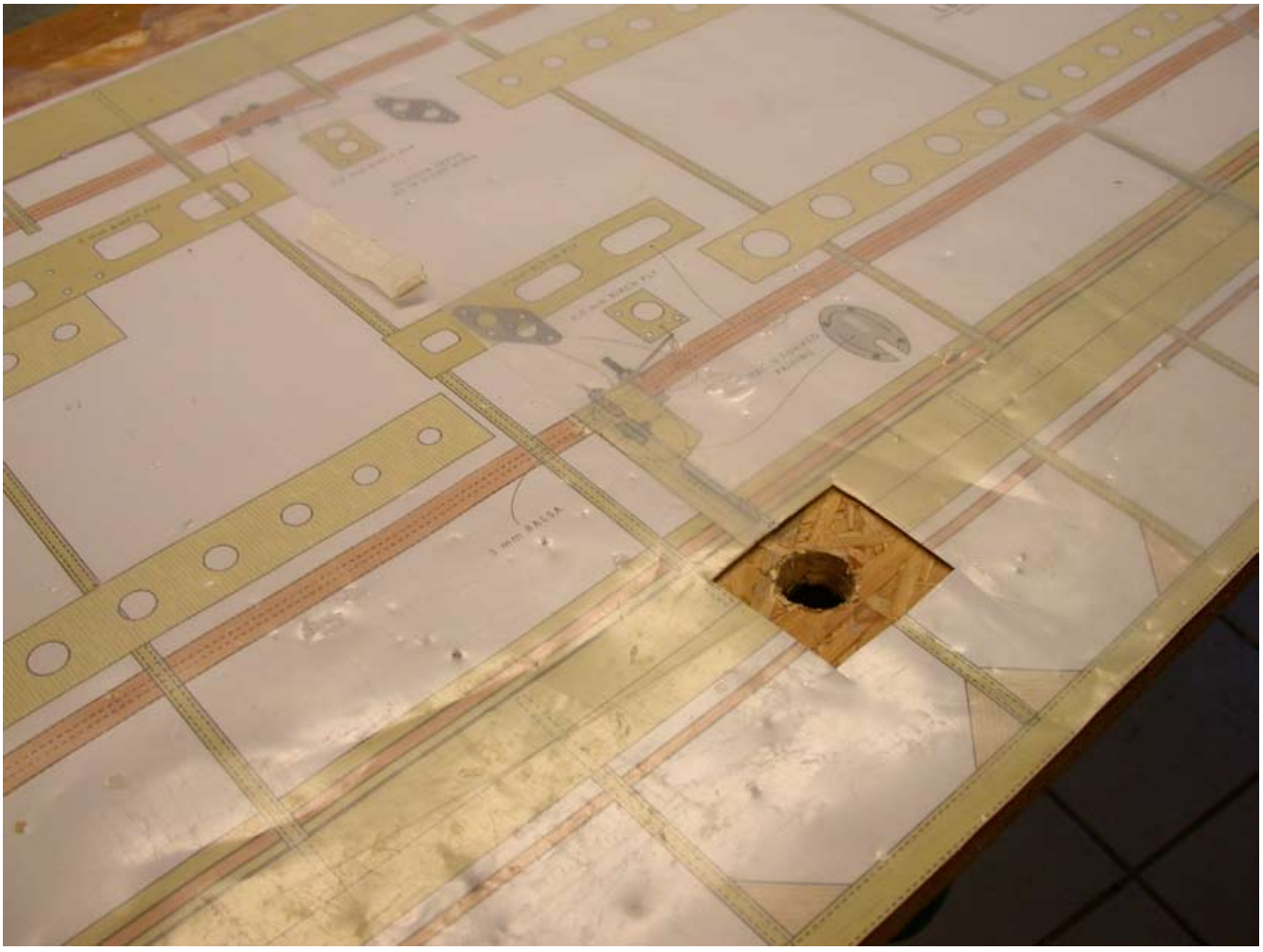


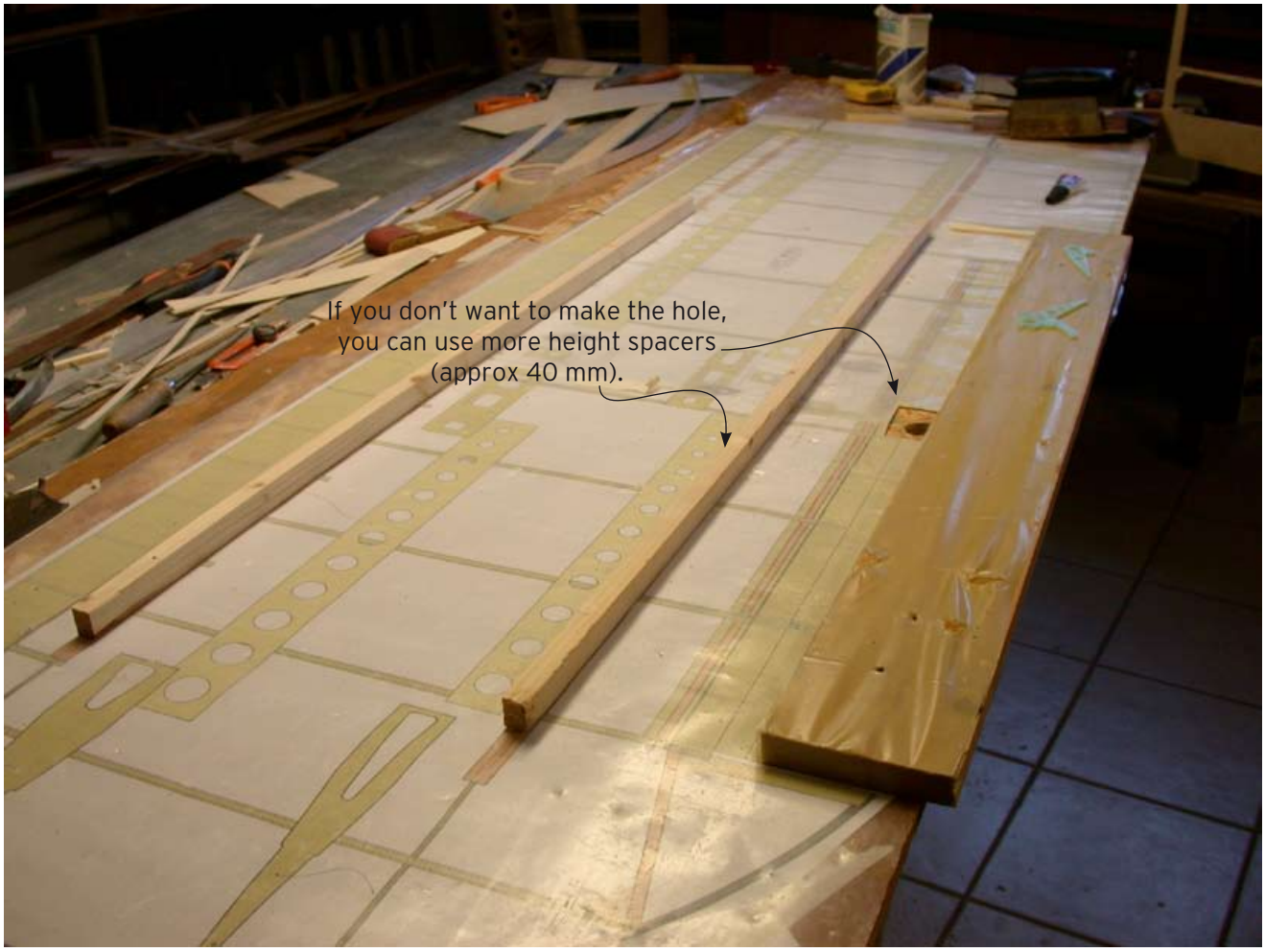


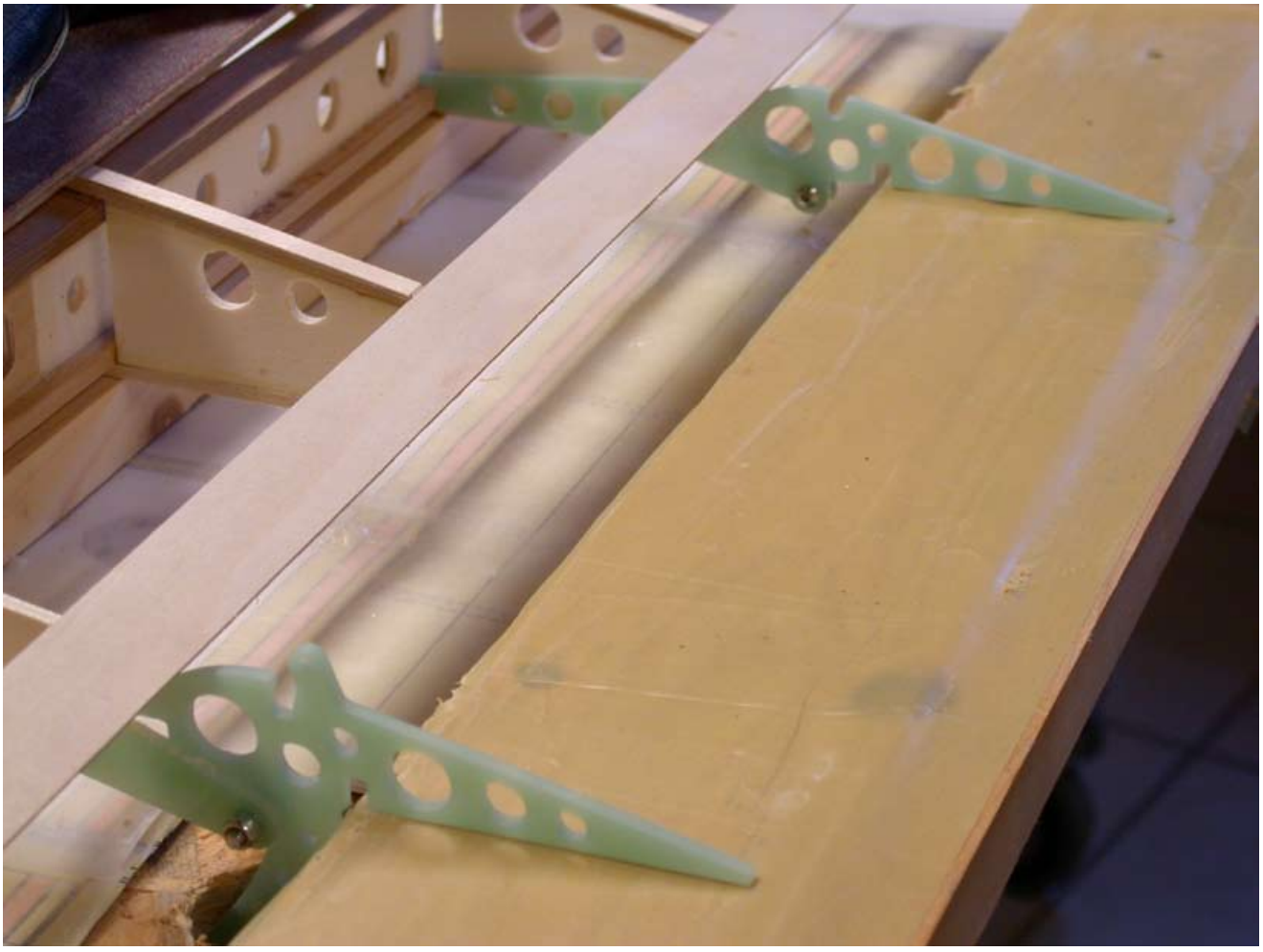


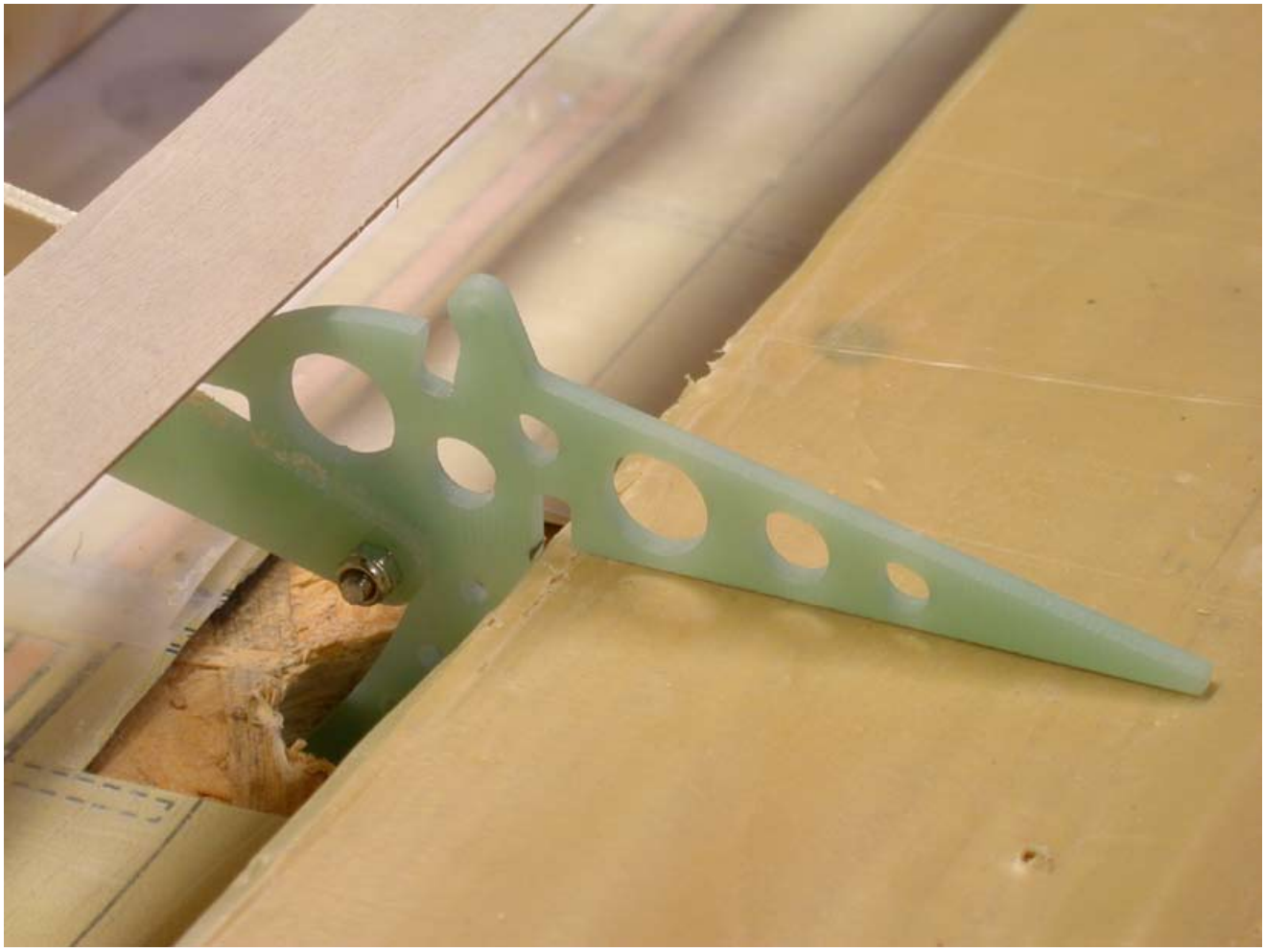


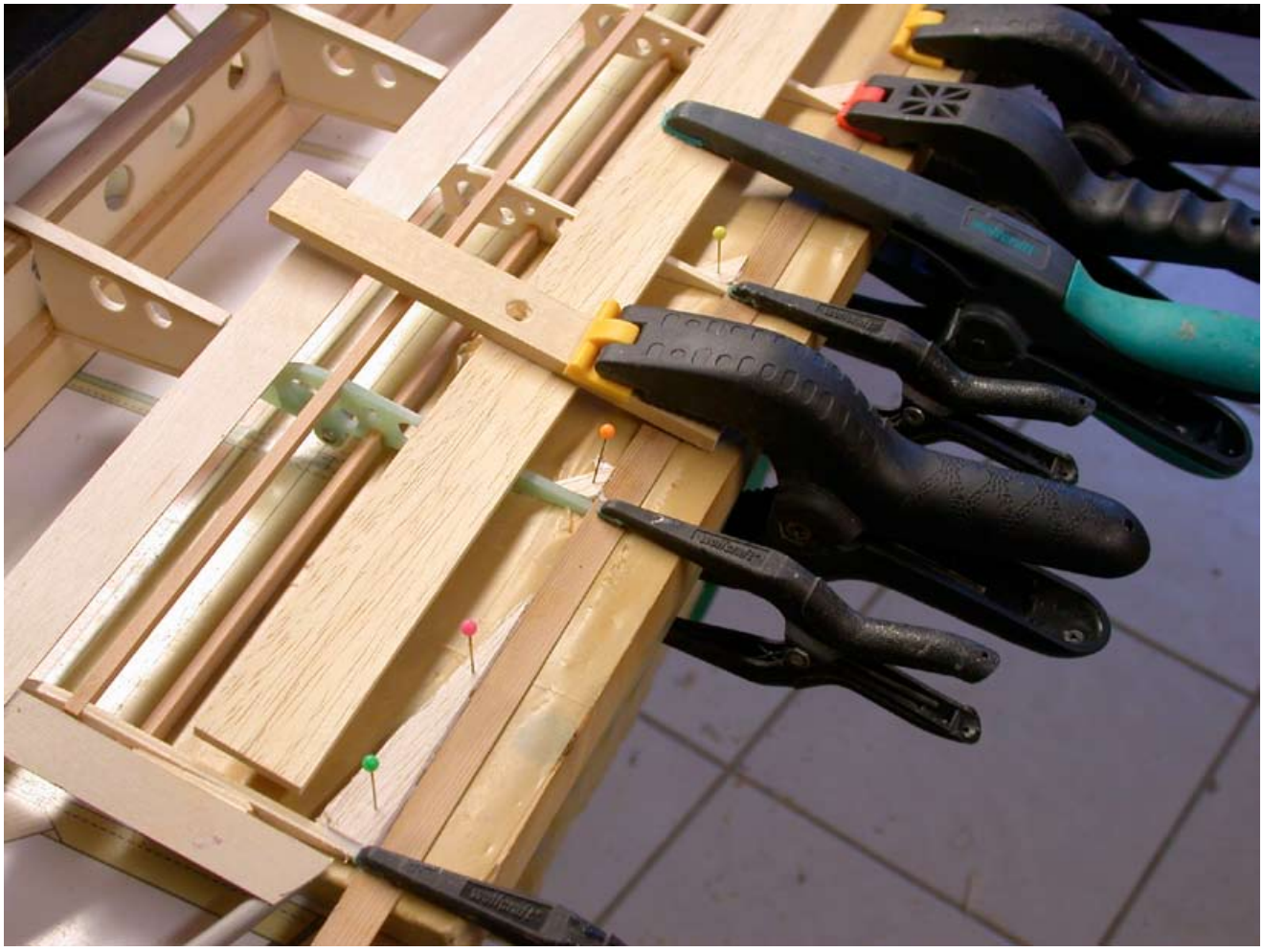

3 mm BIRCH PLY
4.5 mm BIRCH PLY

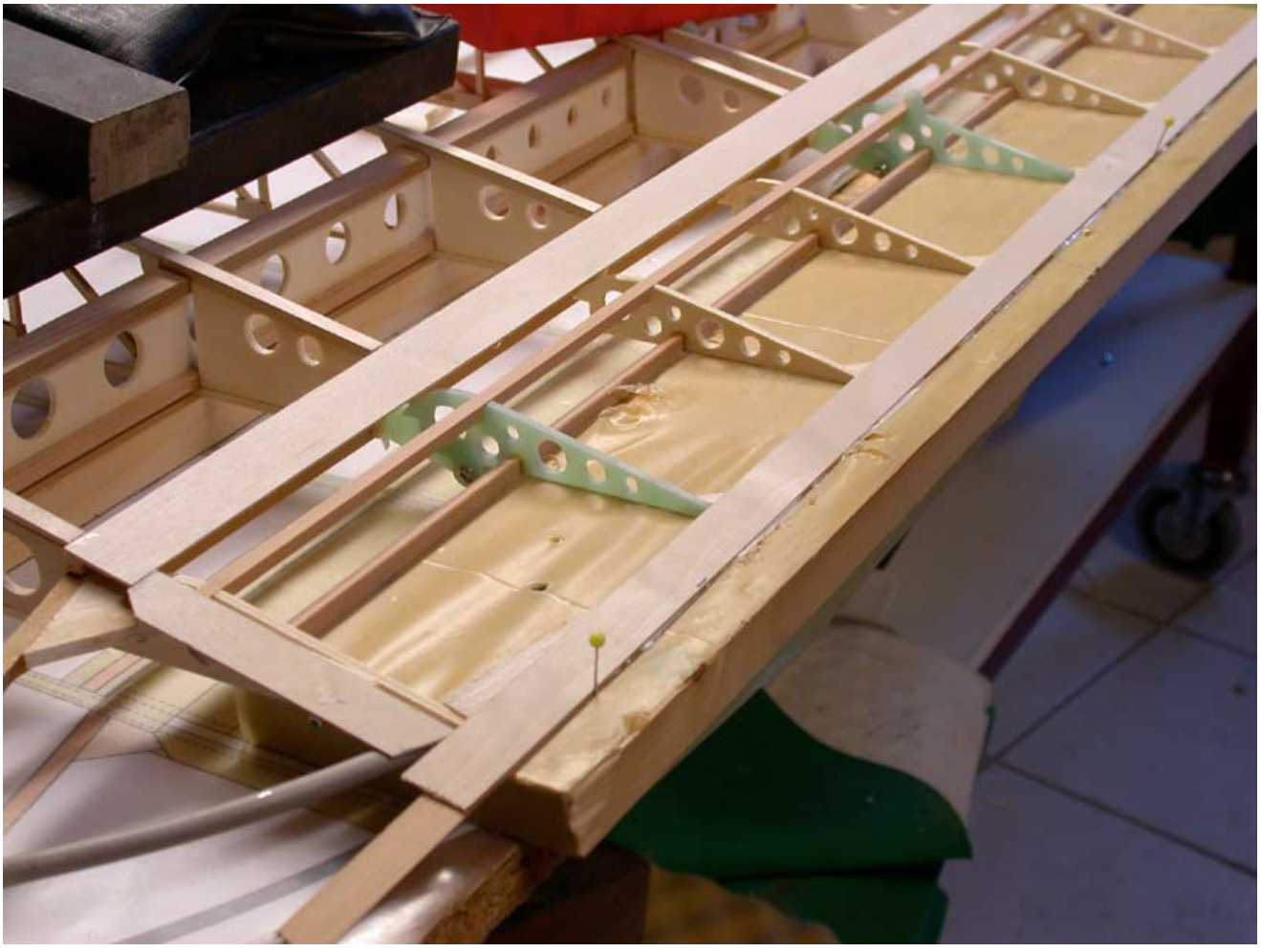


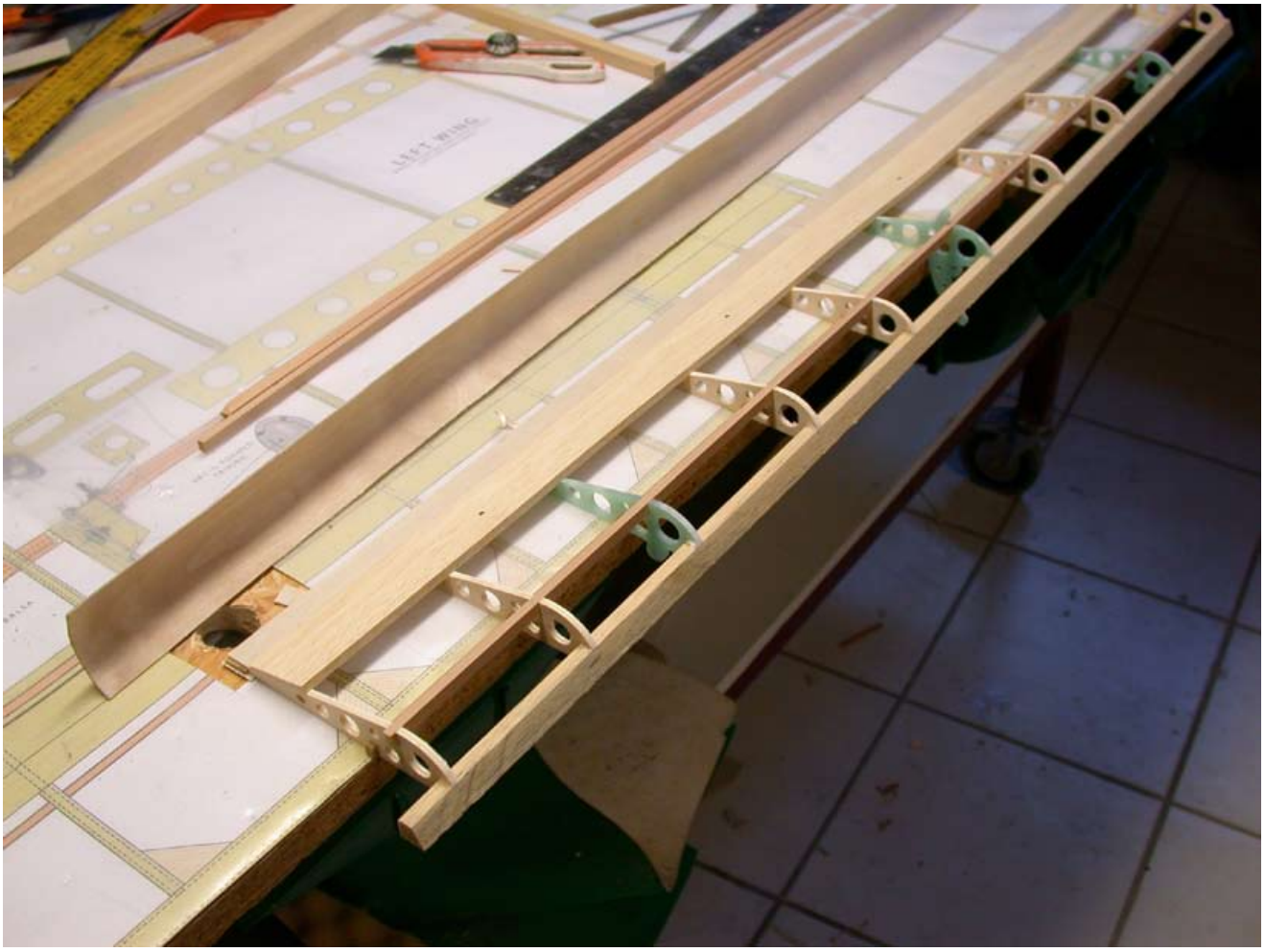

If you don't want to make the hole,
you can use more height spacers
(approx 40 mm).

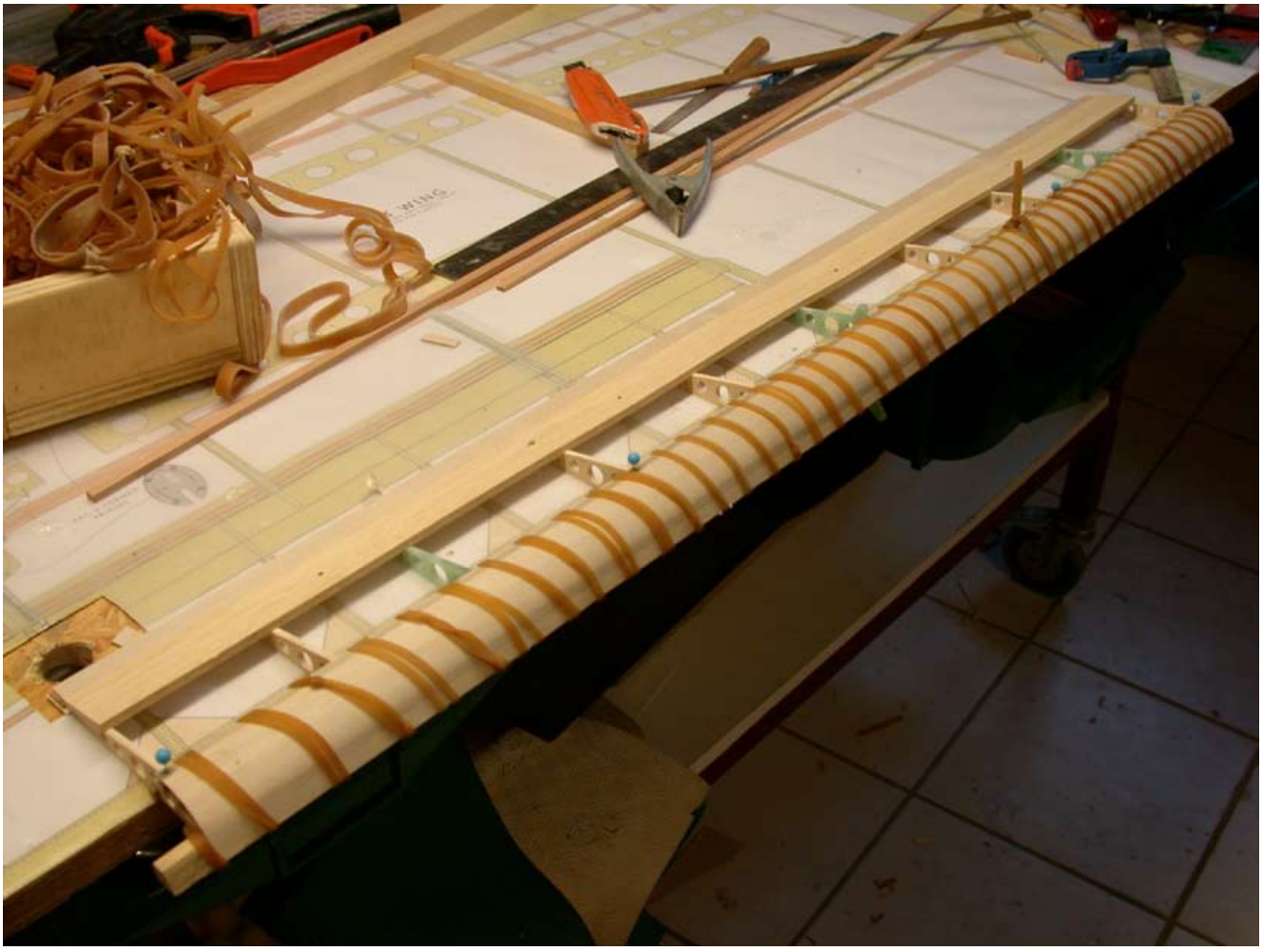


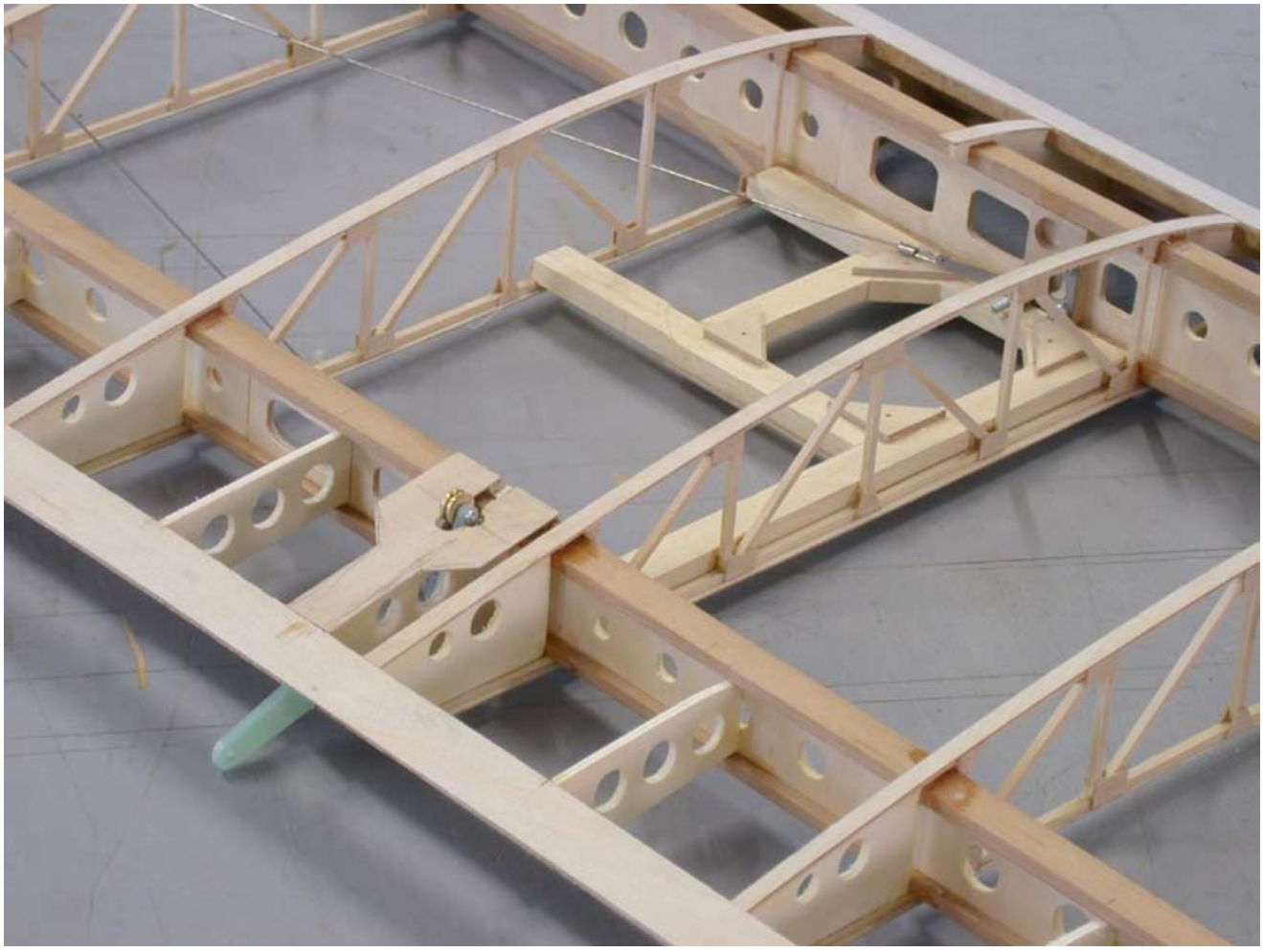


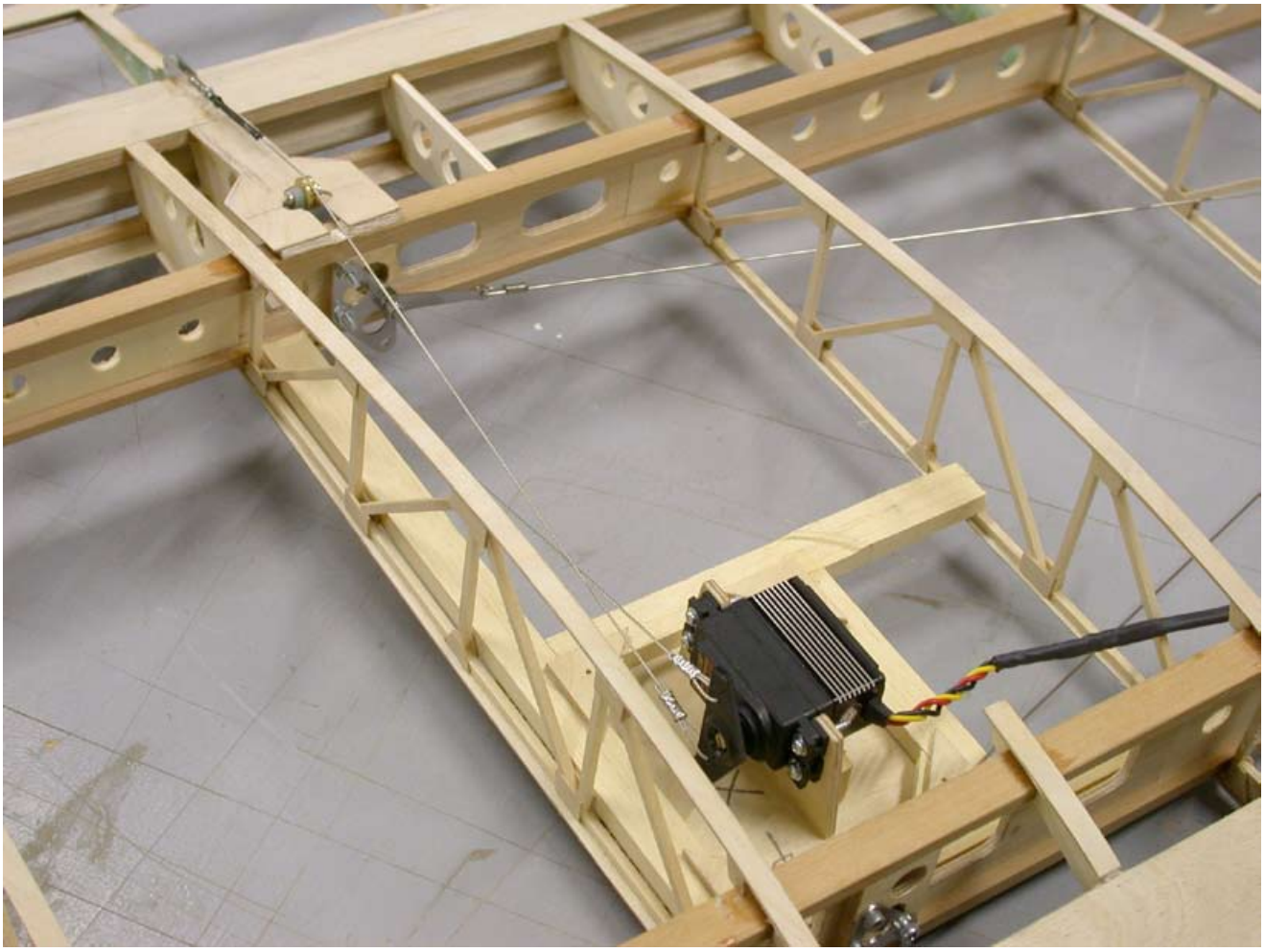


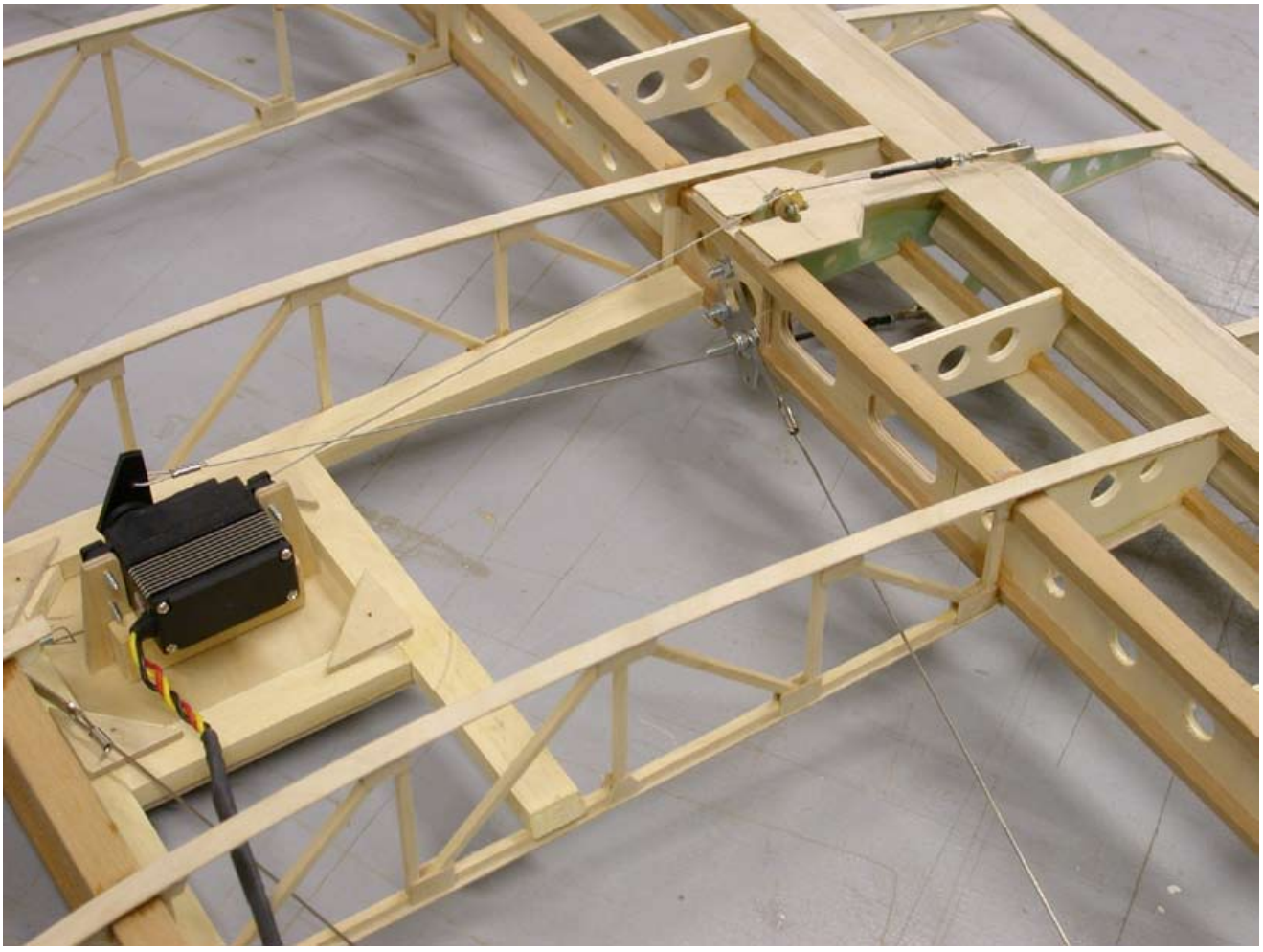


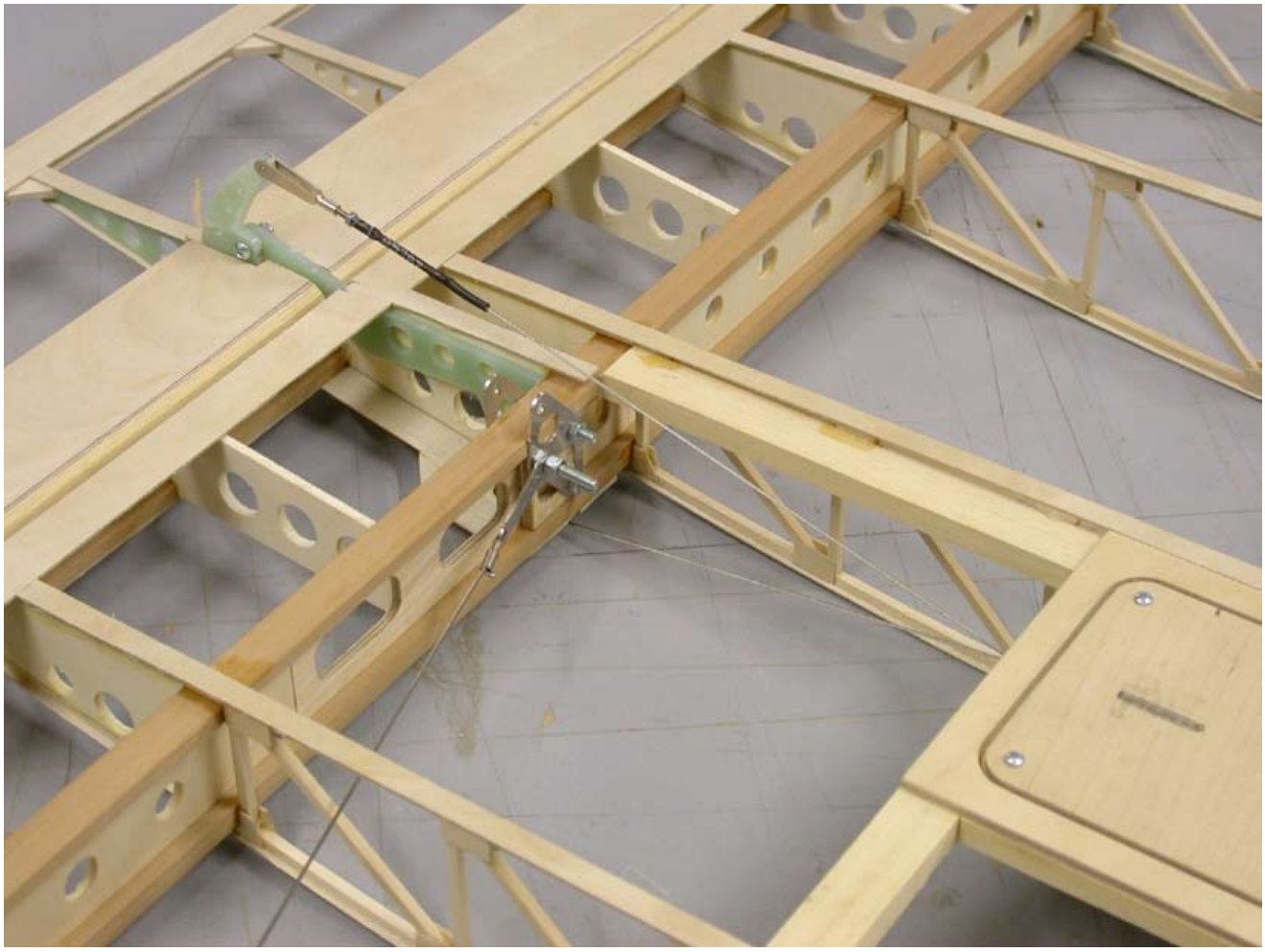


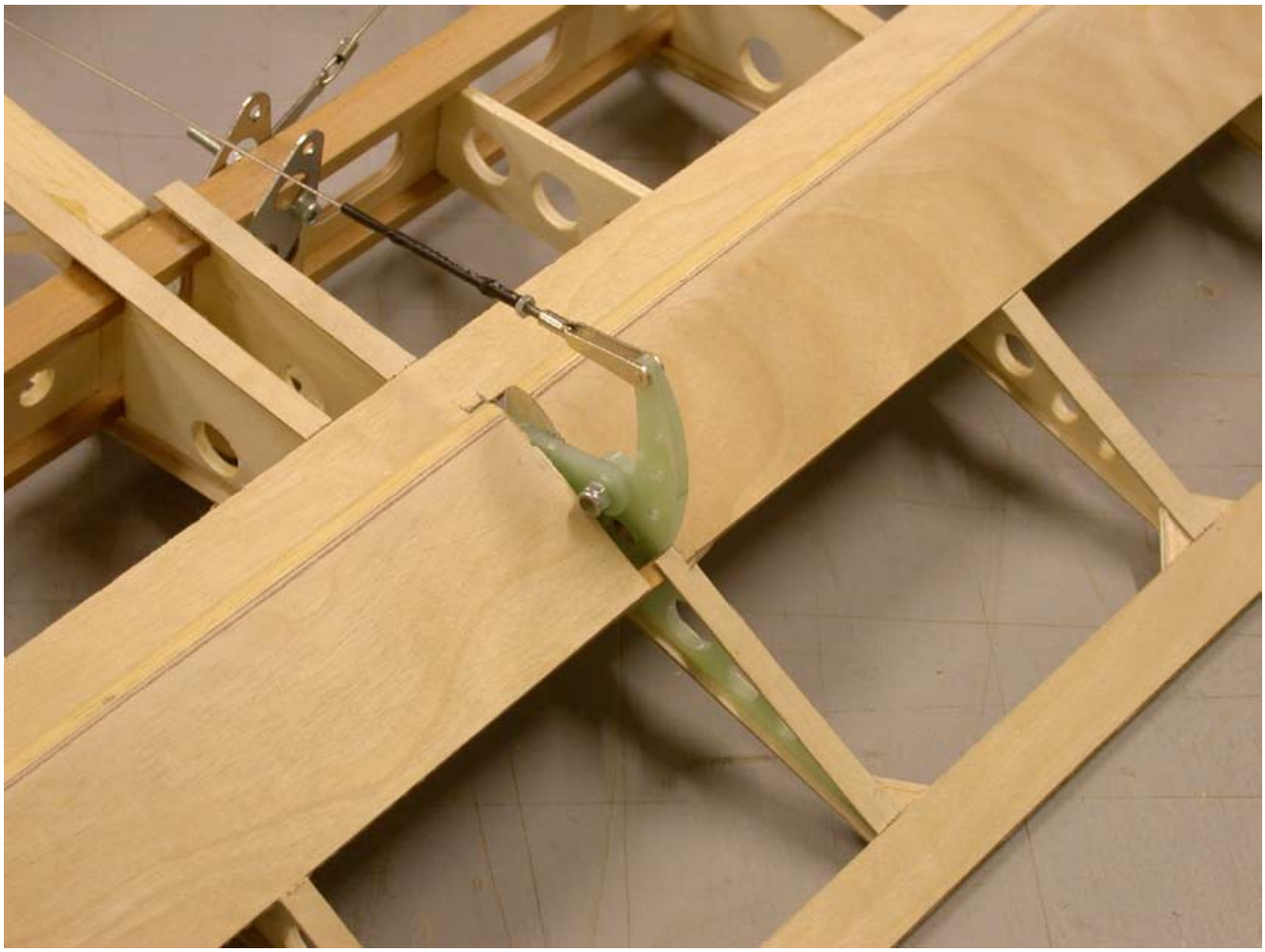


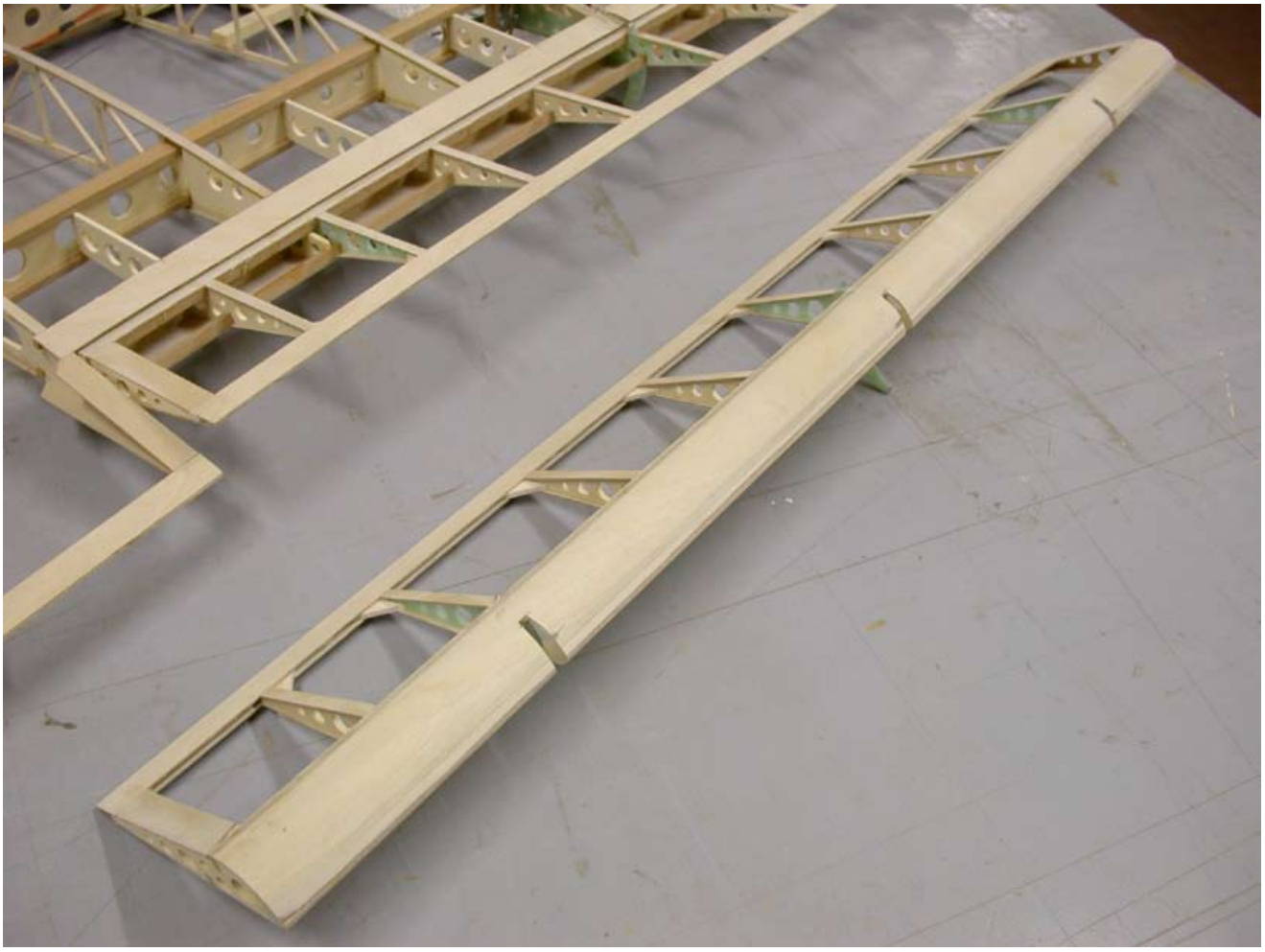


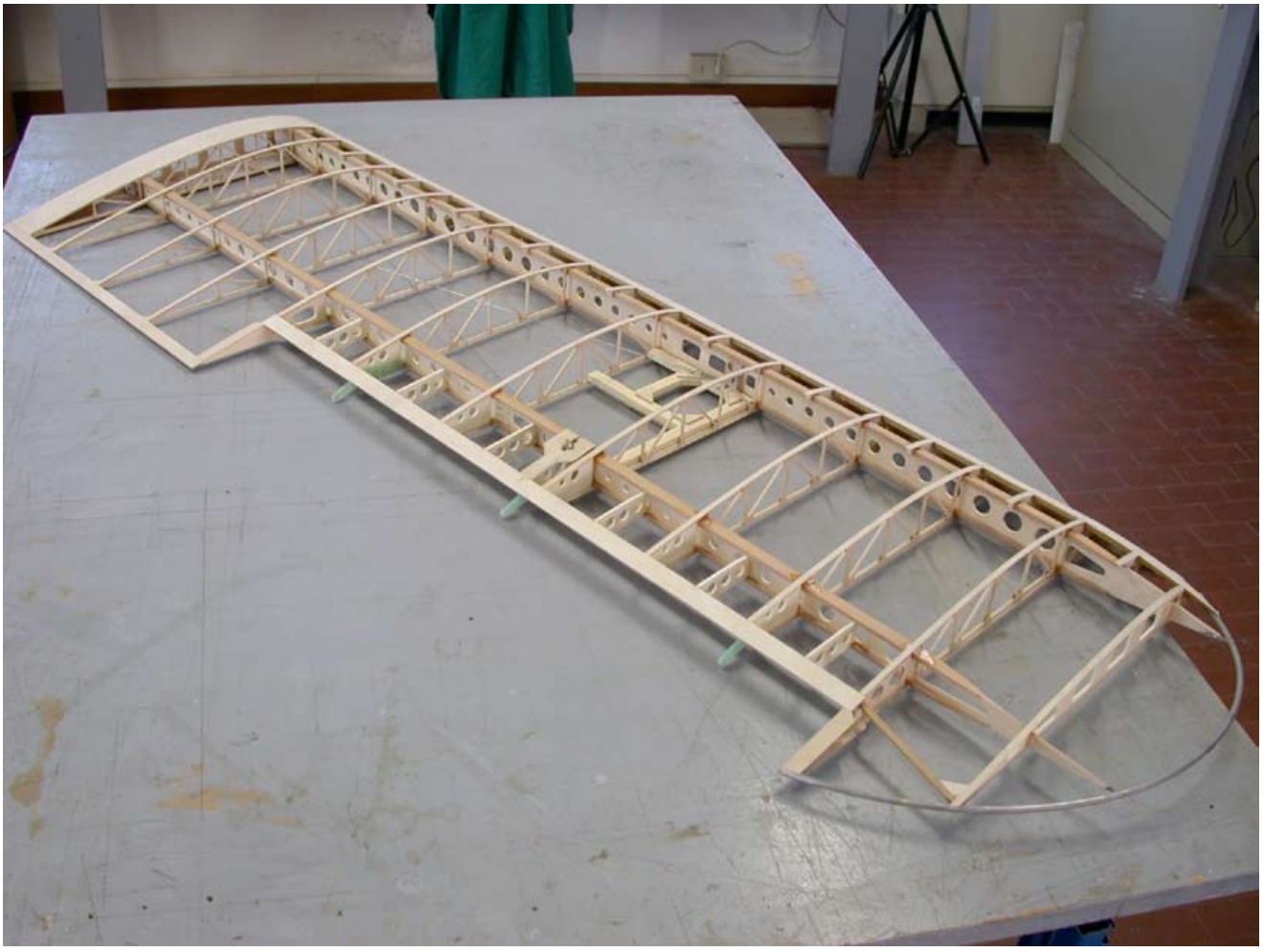


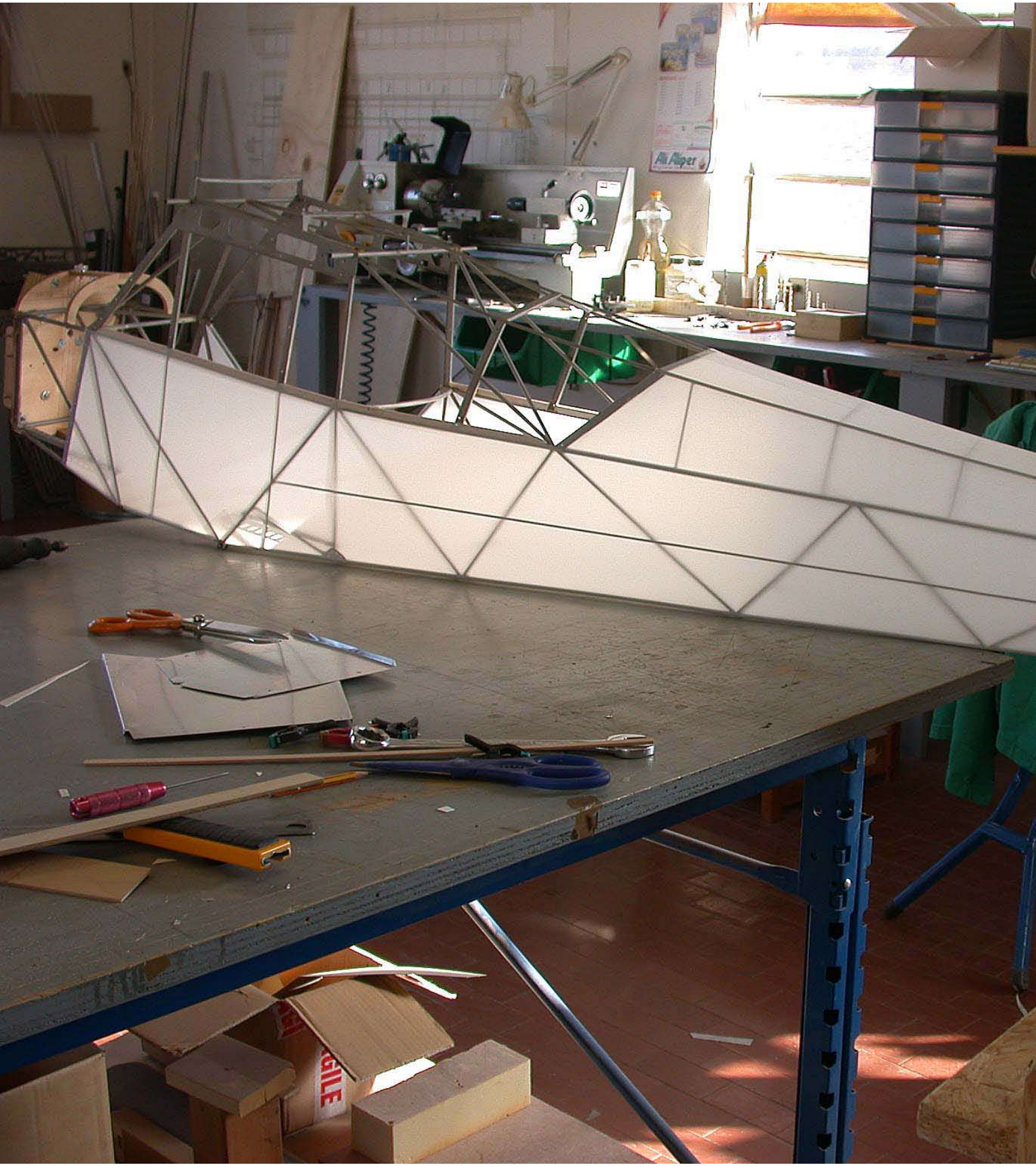




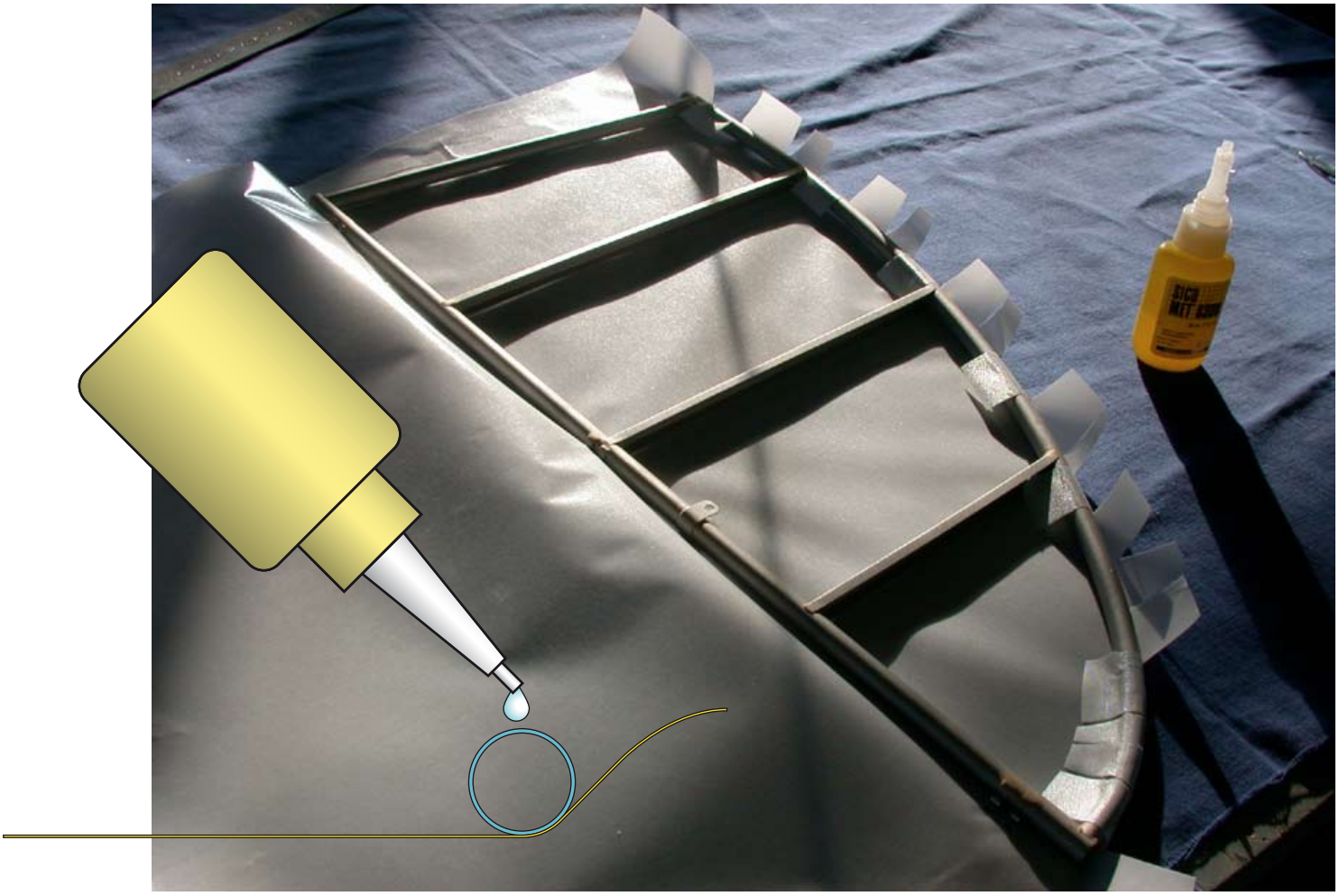


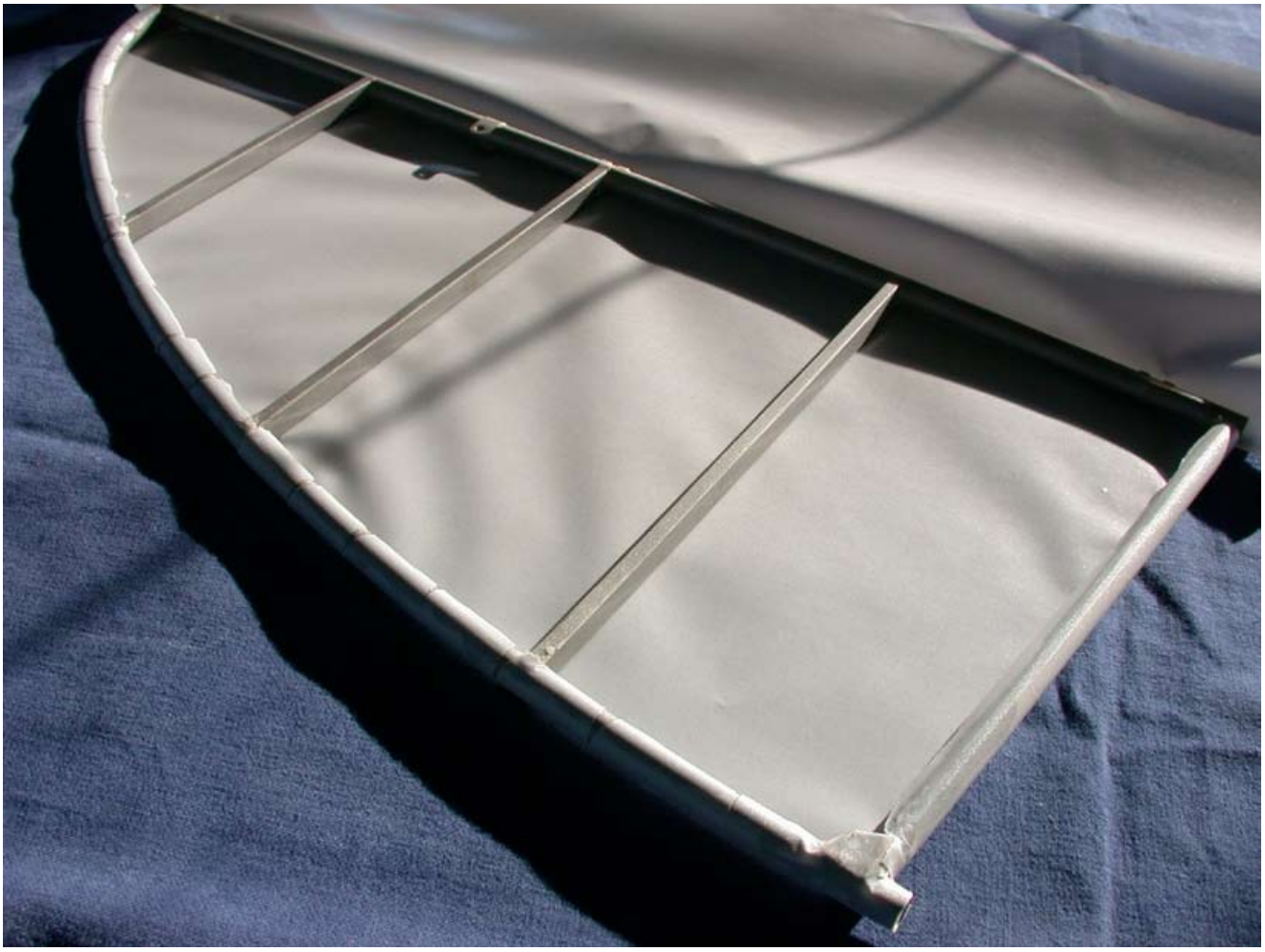


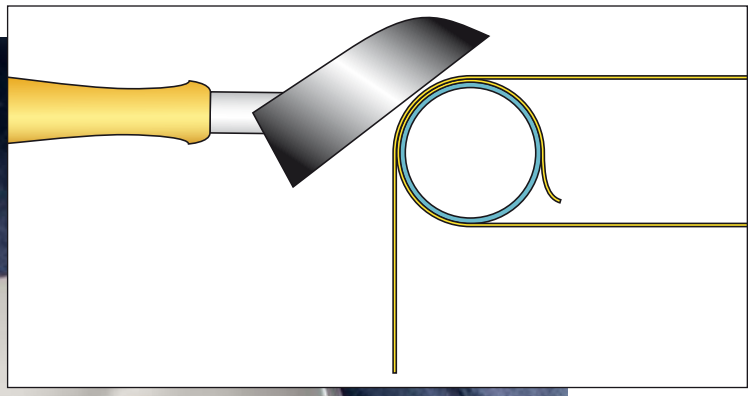



Ali Alpes
FRAGILE

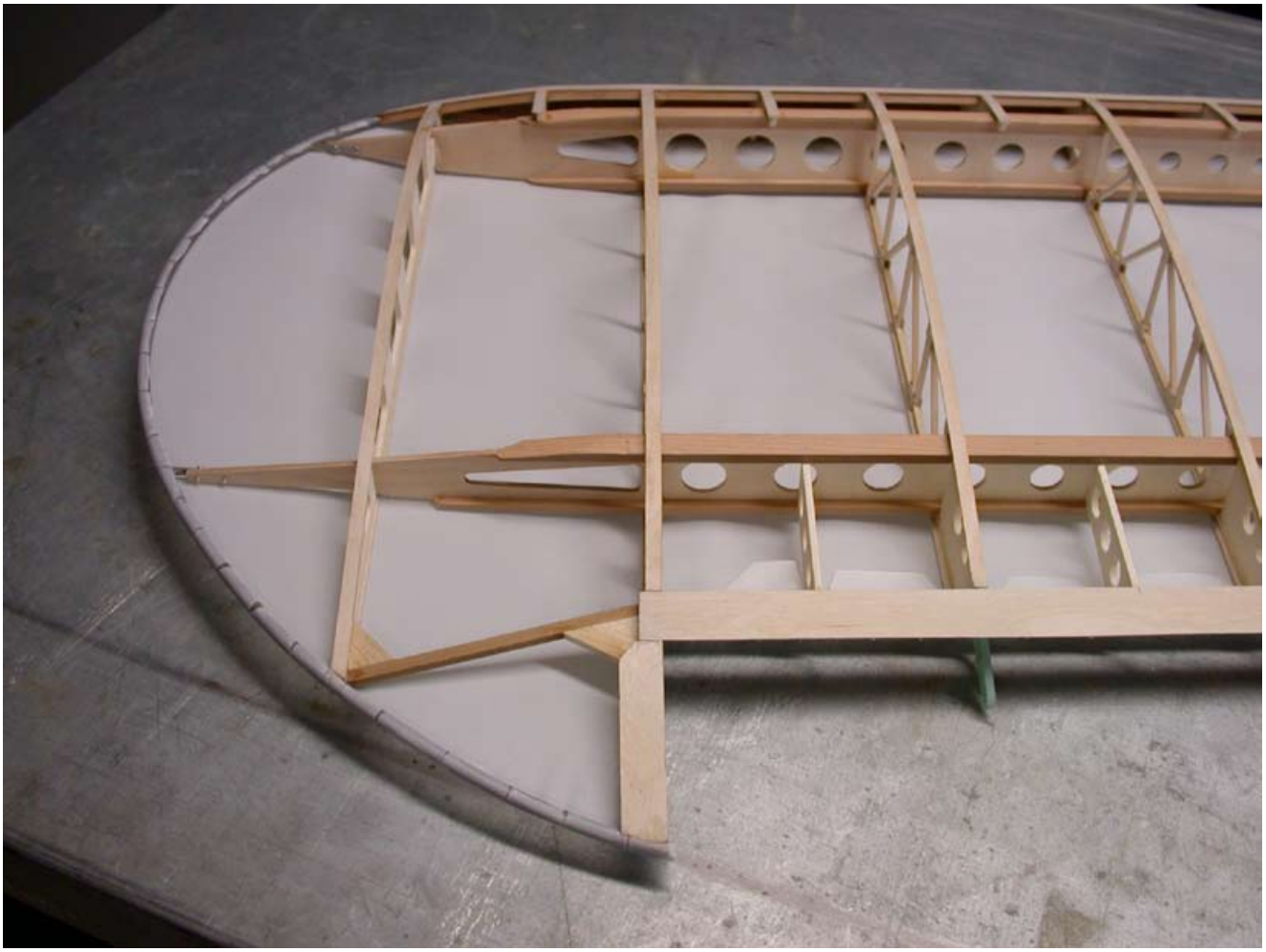
3. COVERING

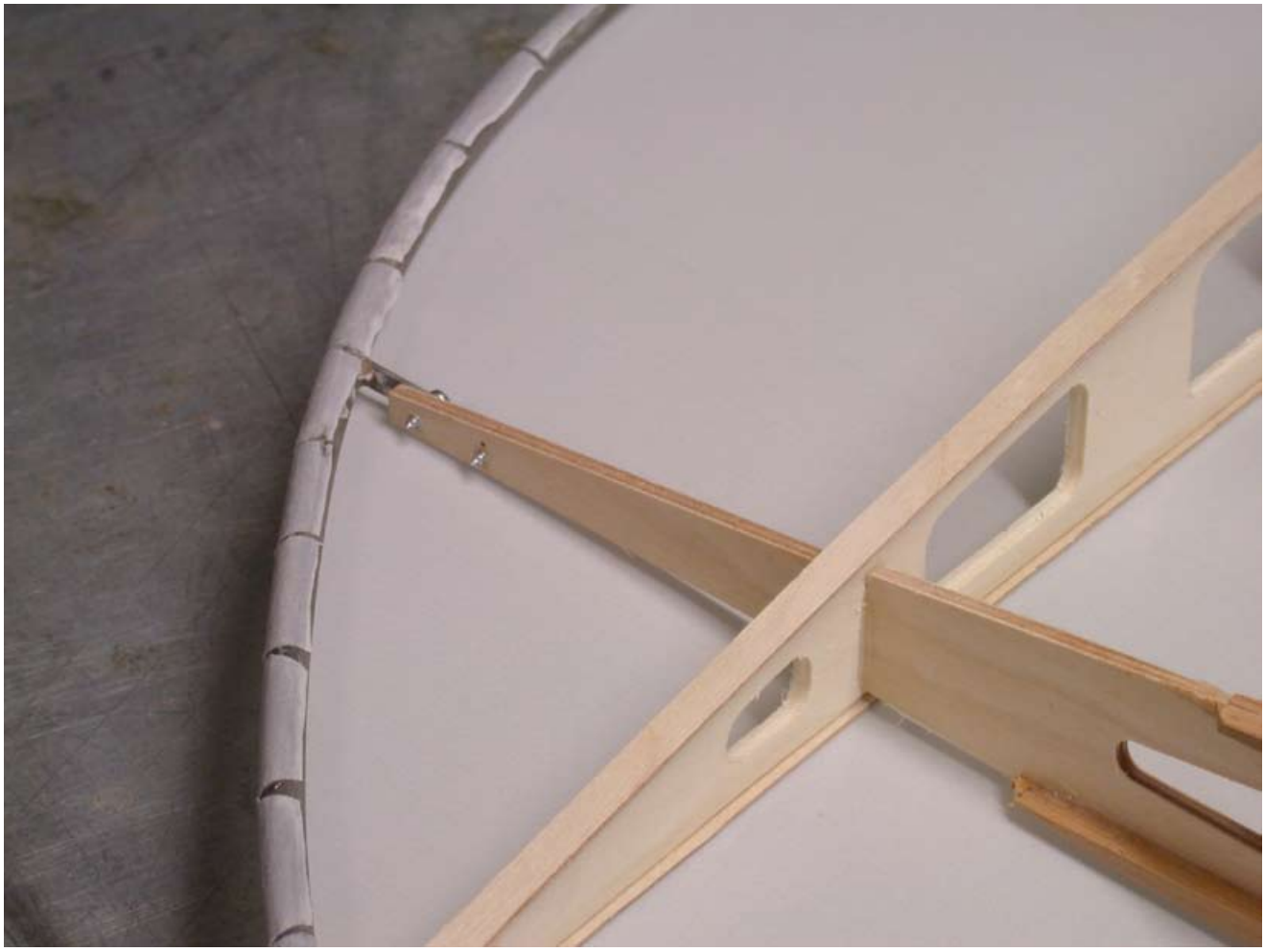




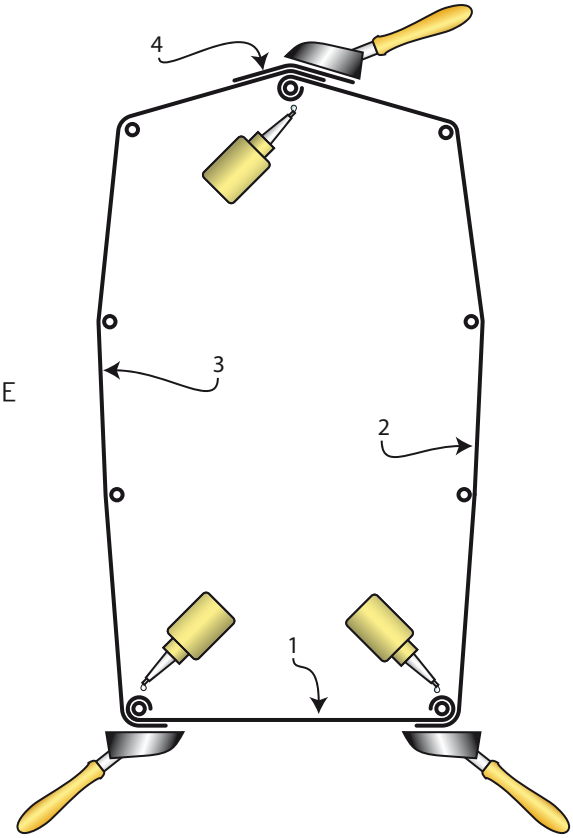


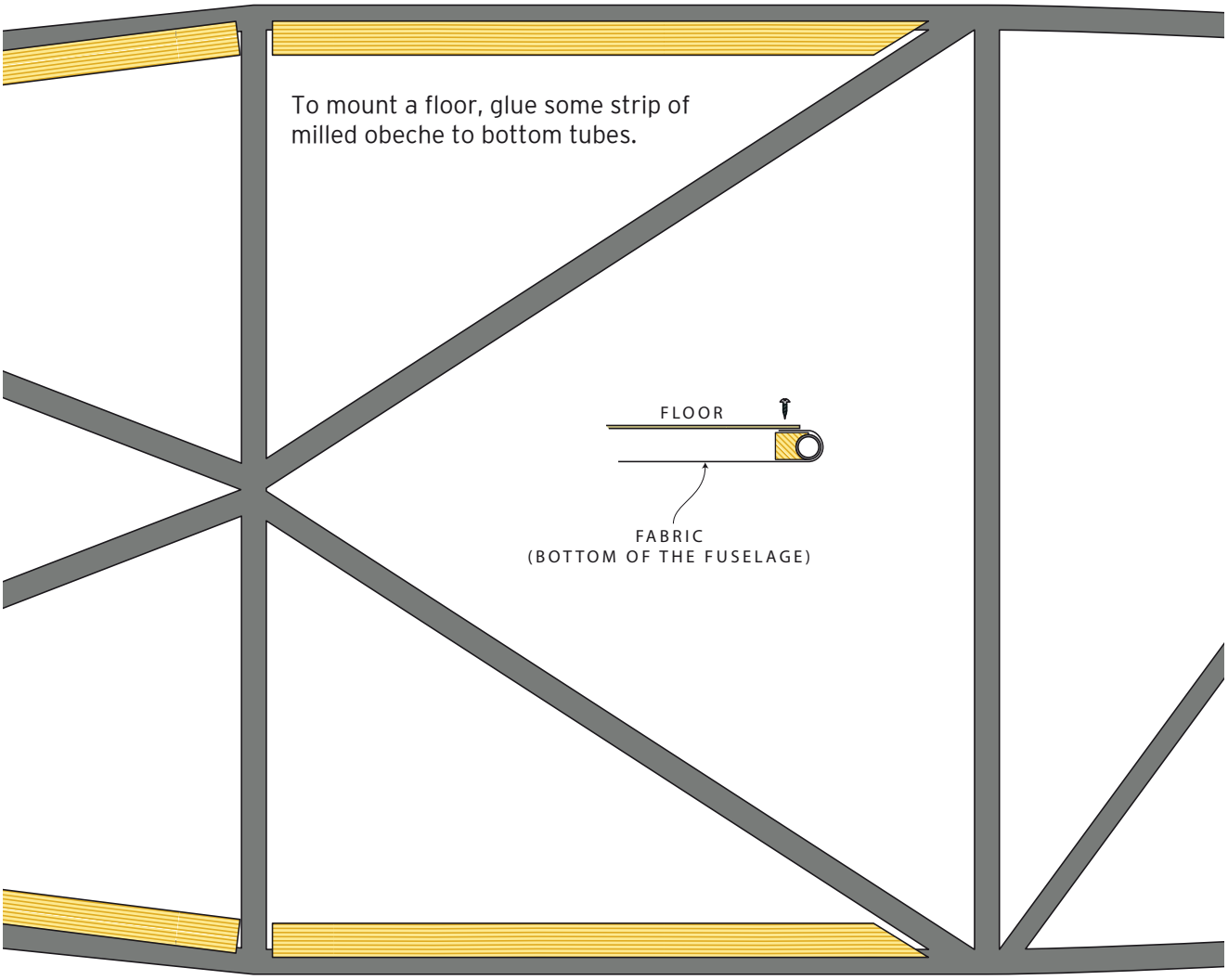

Lacing ribs not included.
(Soon available as optional)

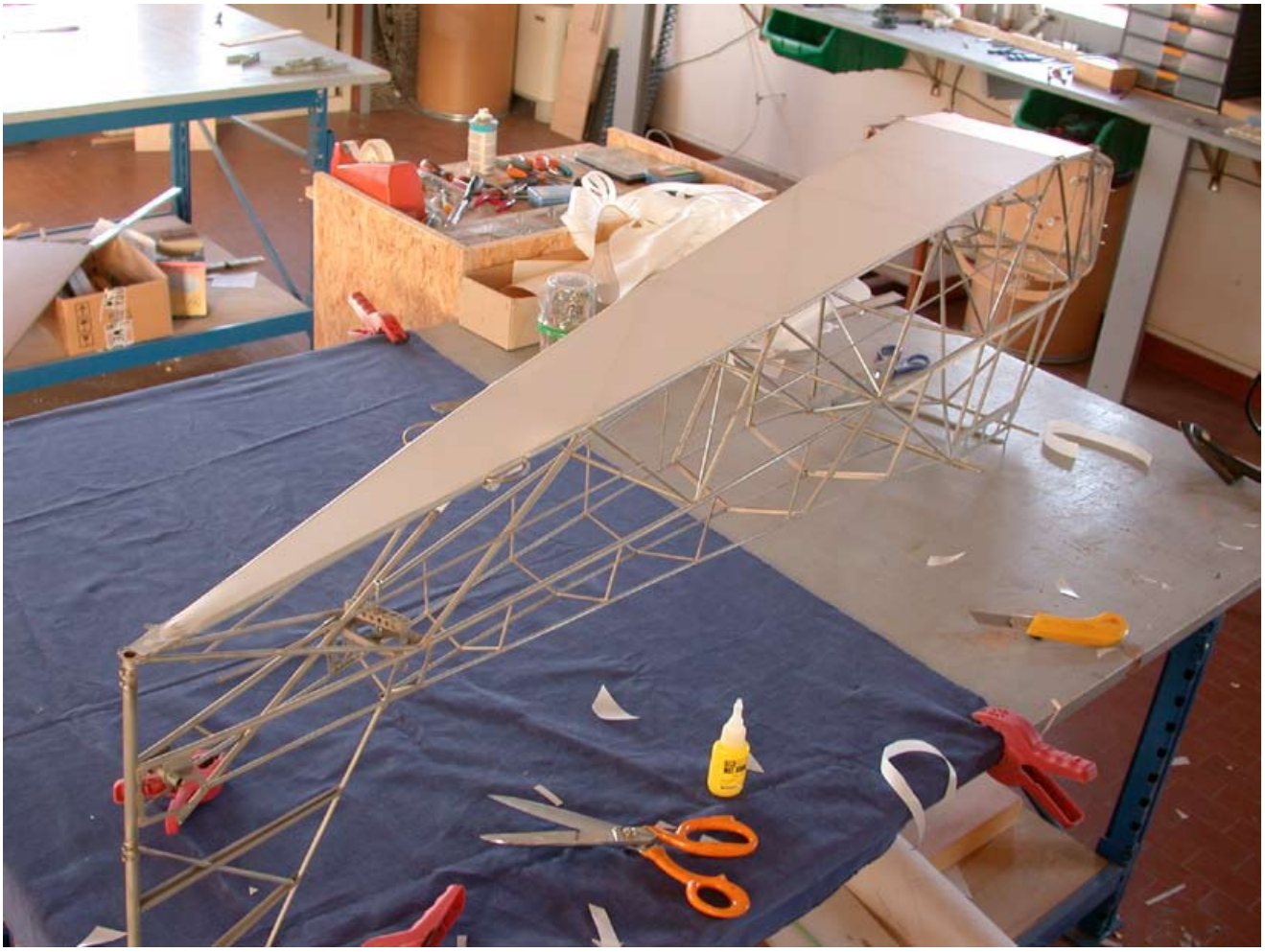


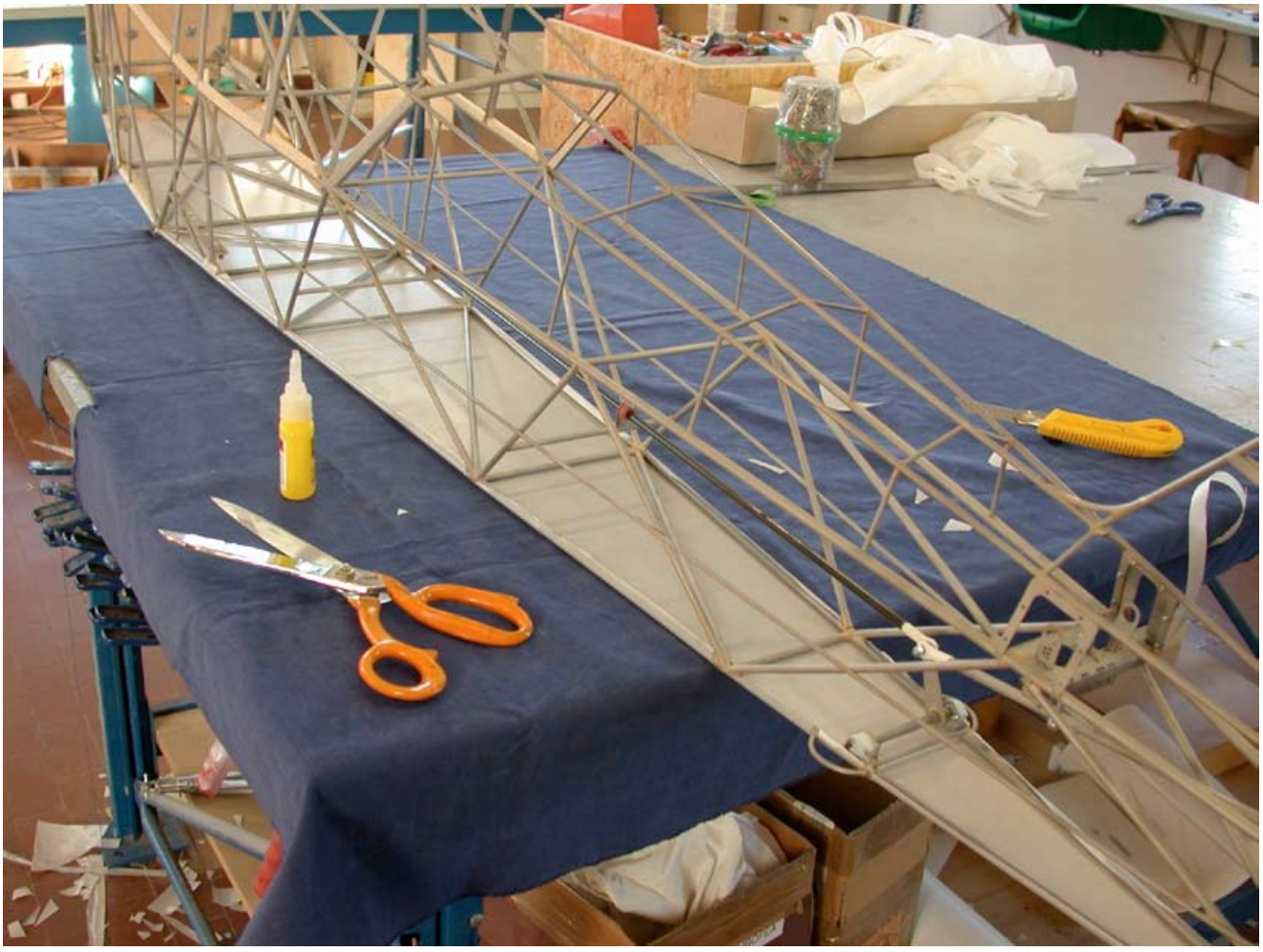


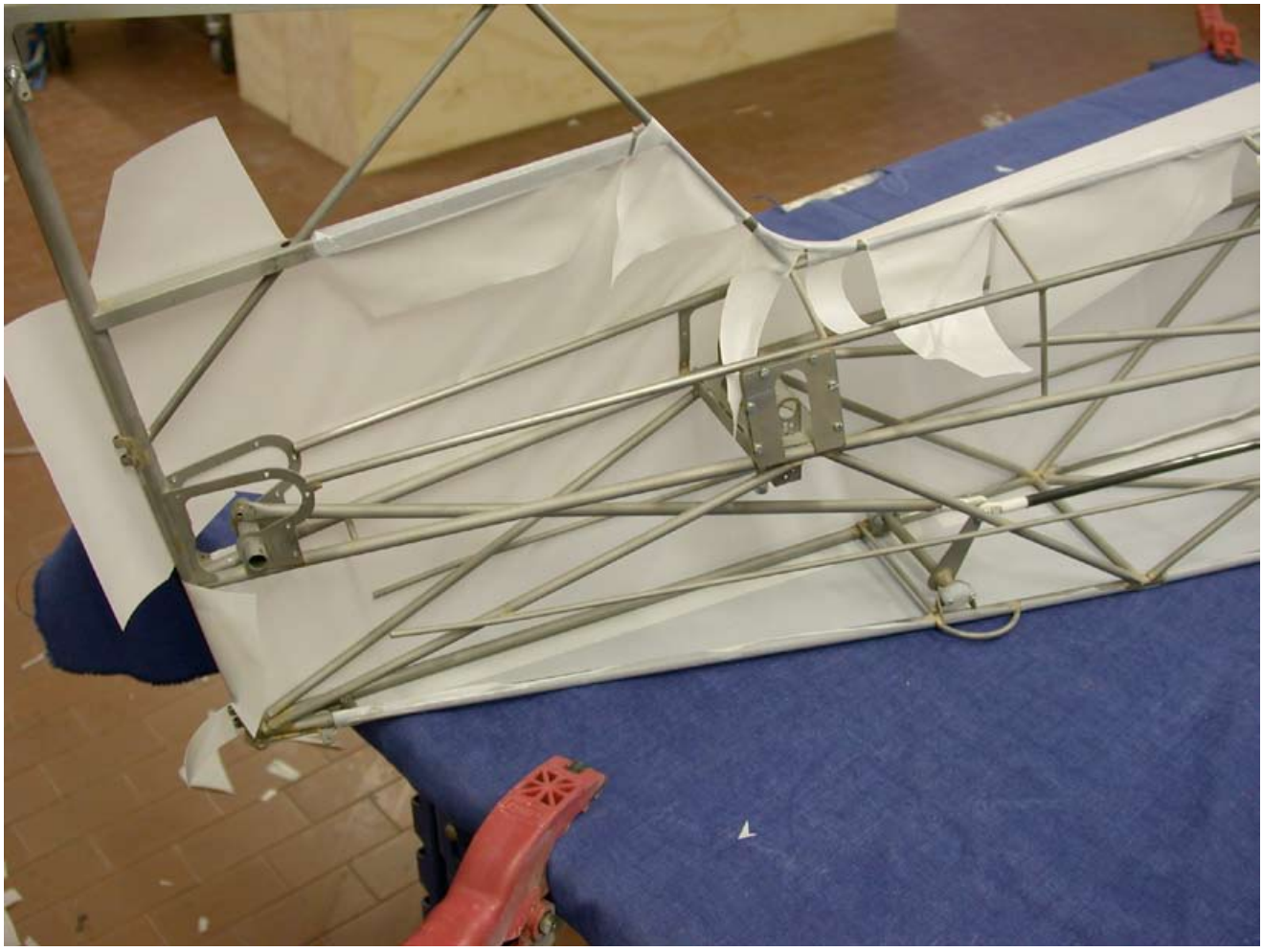
FUSELAGE COVERING SEQUENCE

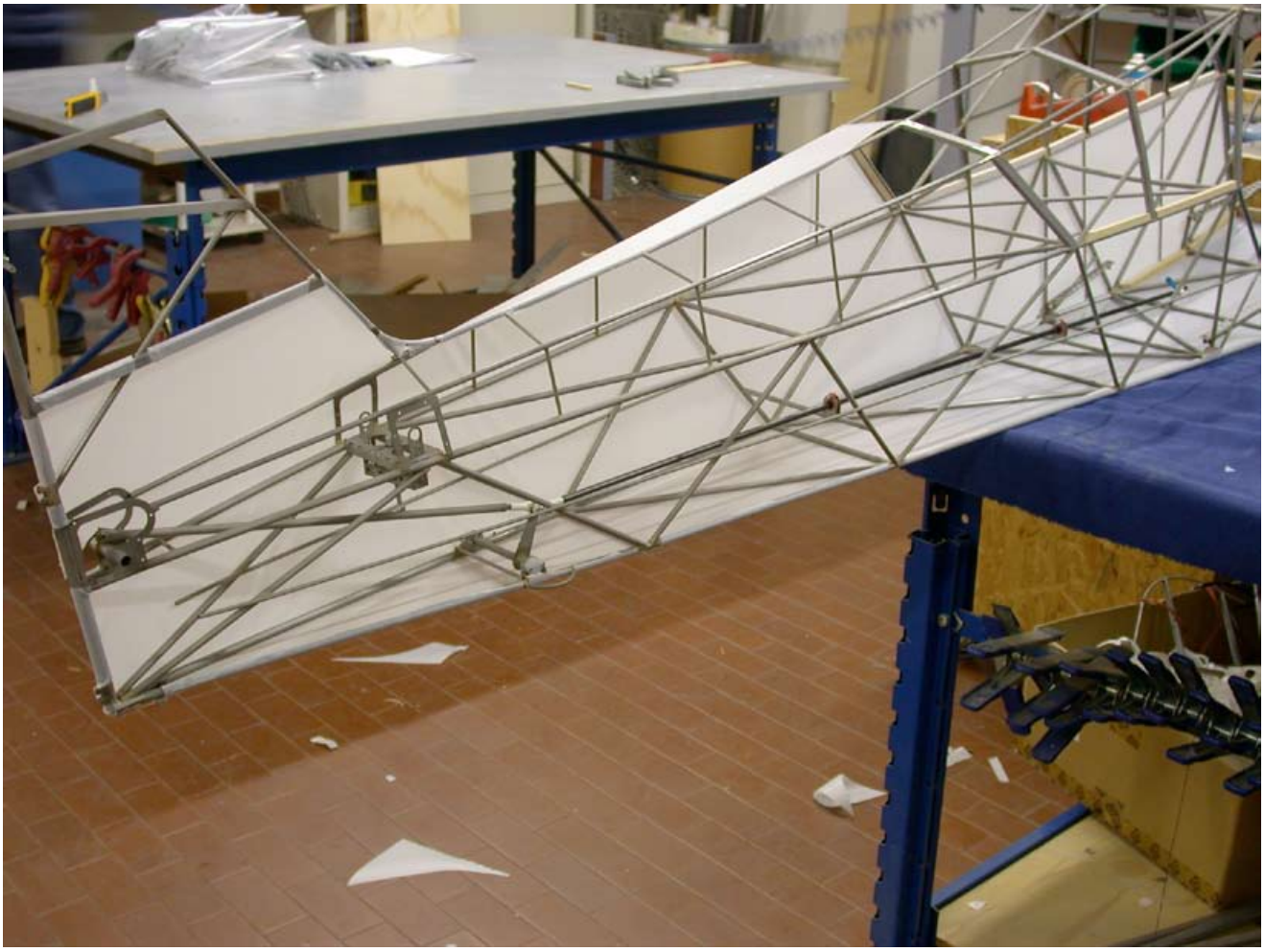


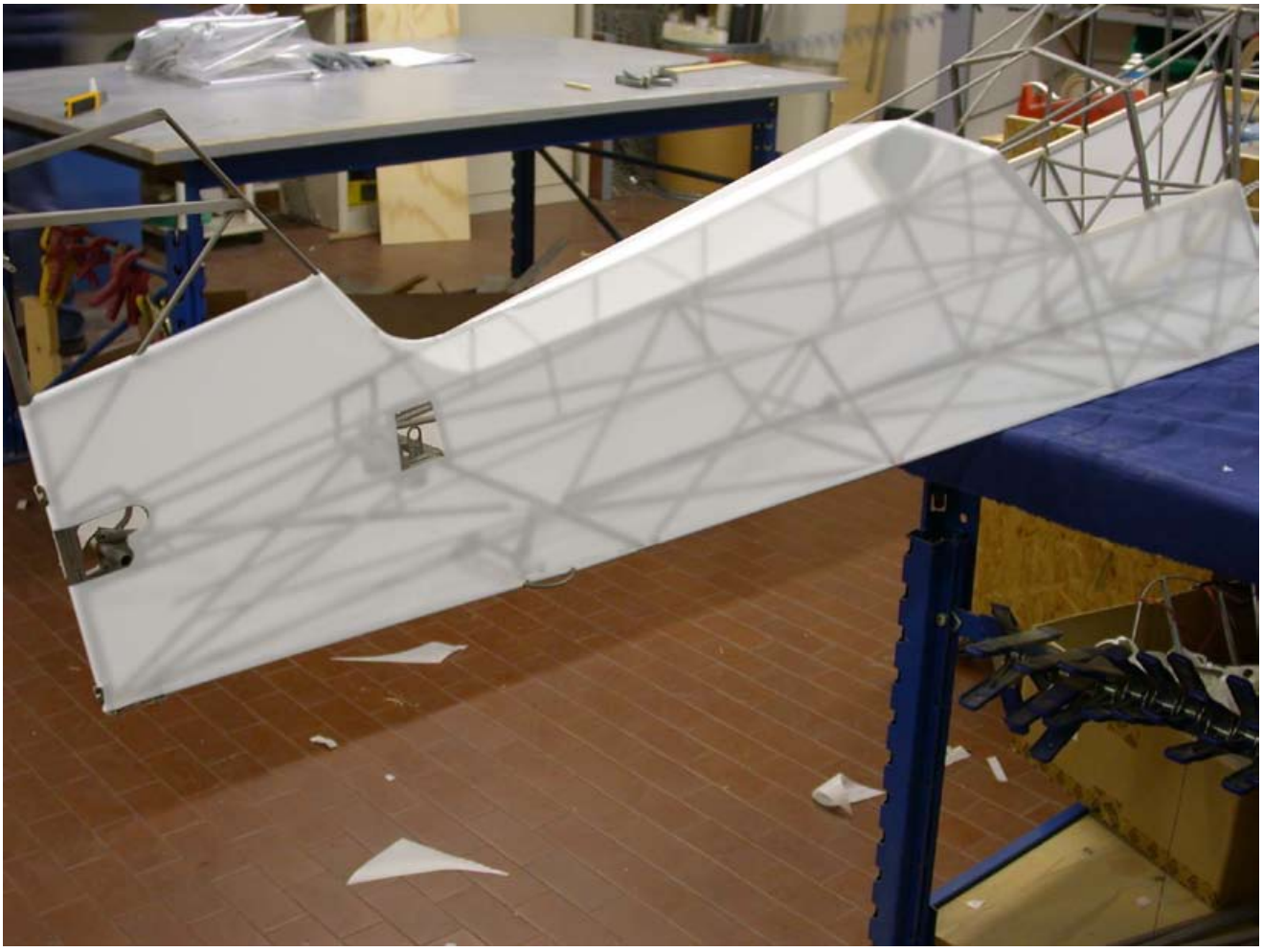


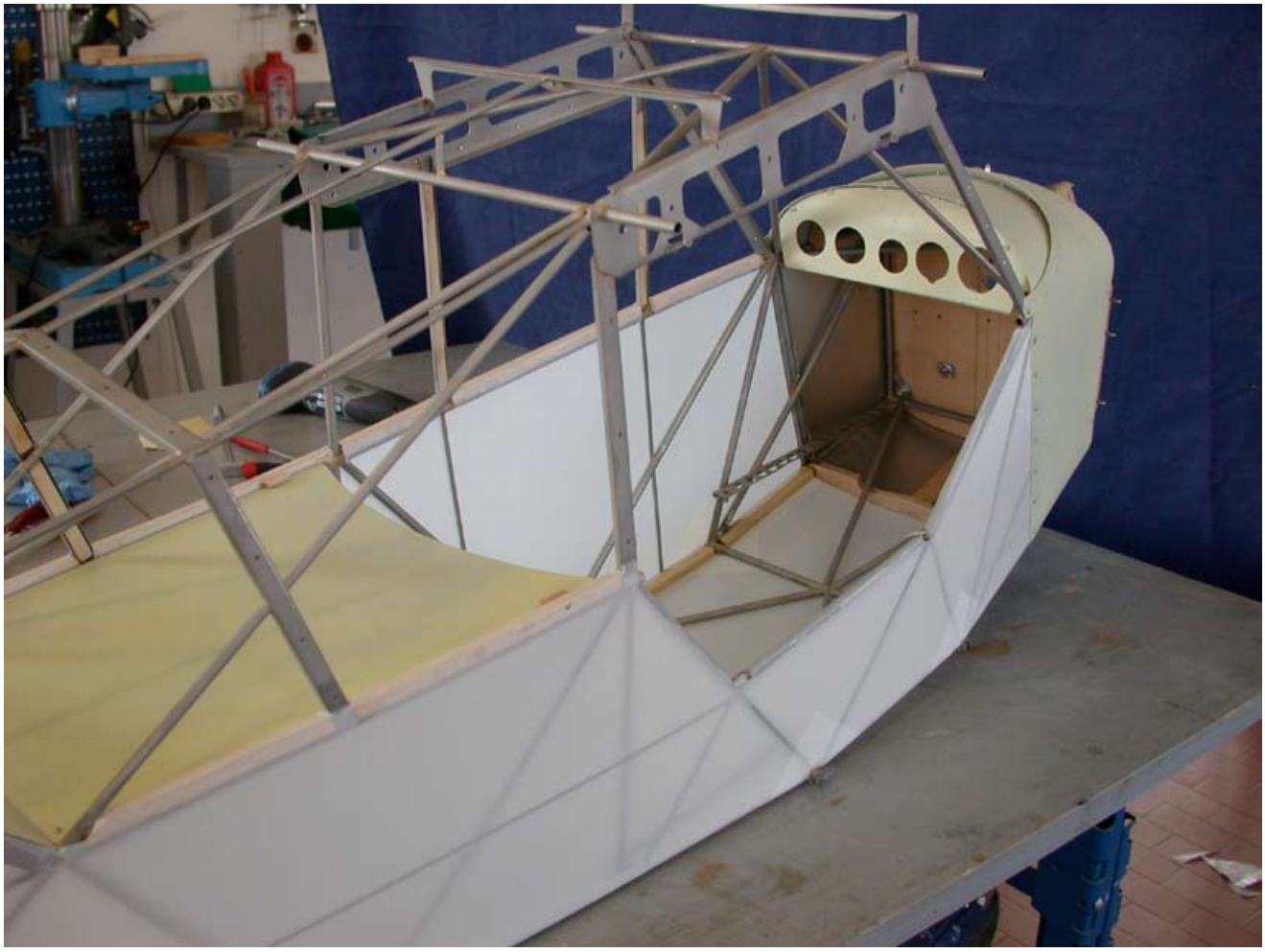




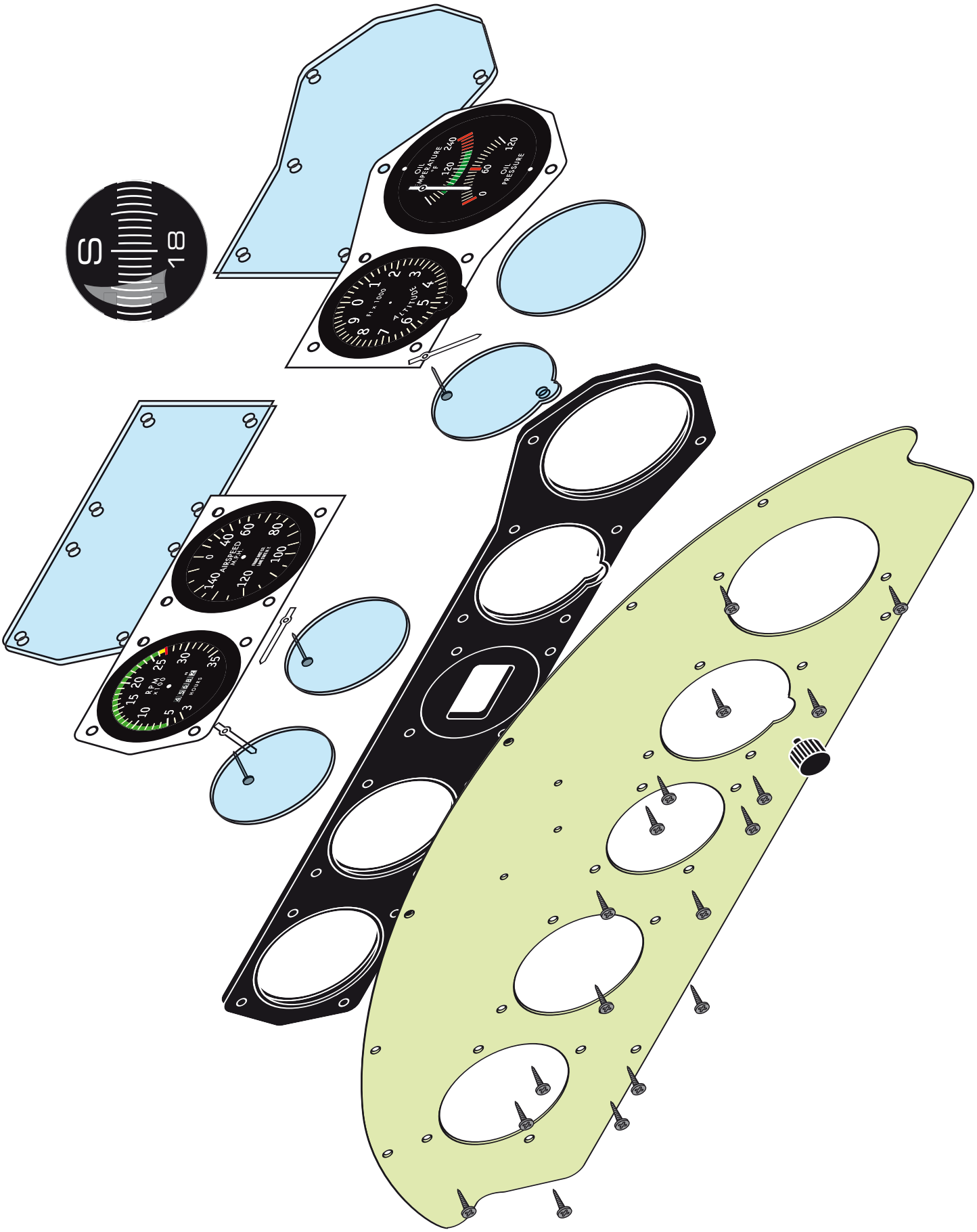


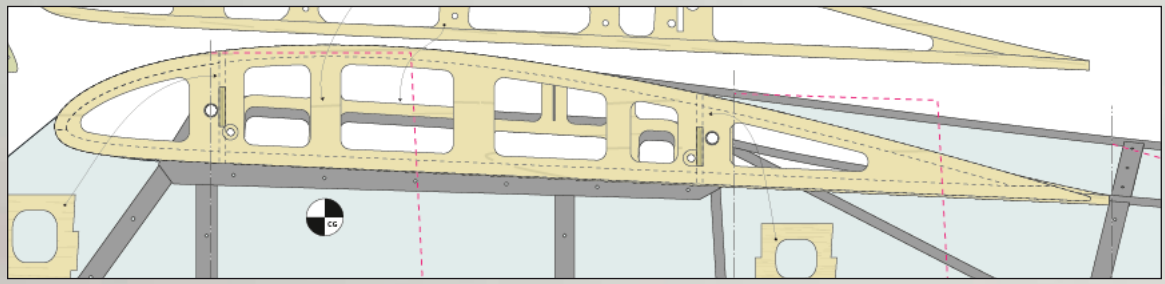




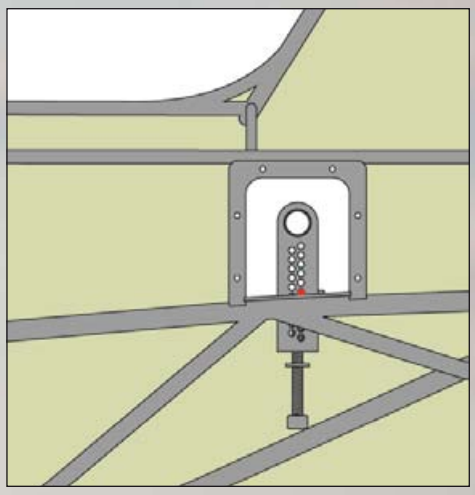



REAR SEAT FOR
SOLO FLIYNG
ALTITUDE


S
18
OIL TEMPERATURE °F
OIL PRESSURE
ALTITUDE
Ft x 1000
AIRSPEED
MPH
RPM
x 100
HOURS


CG

For the first flight, place the CG to 140 mm from leading edge
and insert the adjusting pin as in the image.
In any case the Grasshopper can fly in a wide range of trim,
in order the flight performance you prefer.



PIPER L-4 "GRASSHOPPER"
1/3 SCALE KIT

Wingspan:
3577 mm (140,83 in)

Lenght:
2260 cm (89 in)

Wing area:
186 sq/dm (20 sq/ft)aprox

Weight:
13,5 Kg / (30 lb) with Kavan FK50 twin

Engine:
30 cc 2 stroke, boxer 4 stroke as Titan ZG 26, OS 300 or 600 Gemini, Saito 300, Kavan FK50, etc.
up to 100 cc for big gliders towing

Projected and drawn by Paolo Severin - August 2011

www.paoloseverin.it

Paolo Severin srl
Via Decorati al Valor Civile 57a
35142 Padova - Italy
Laboratorio: Via Monfalcone 11 - Padova

Tel. 049 8800329 - Fax 049 8800354

email: paolo.severin@pallino.it