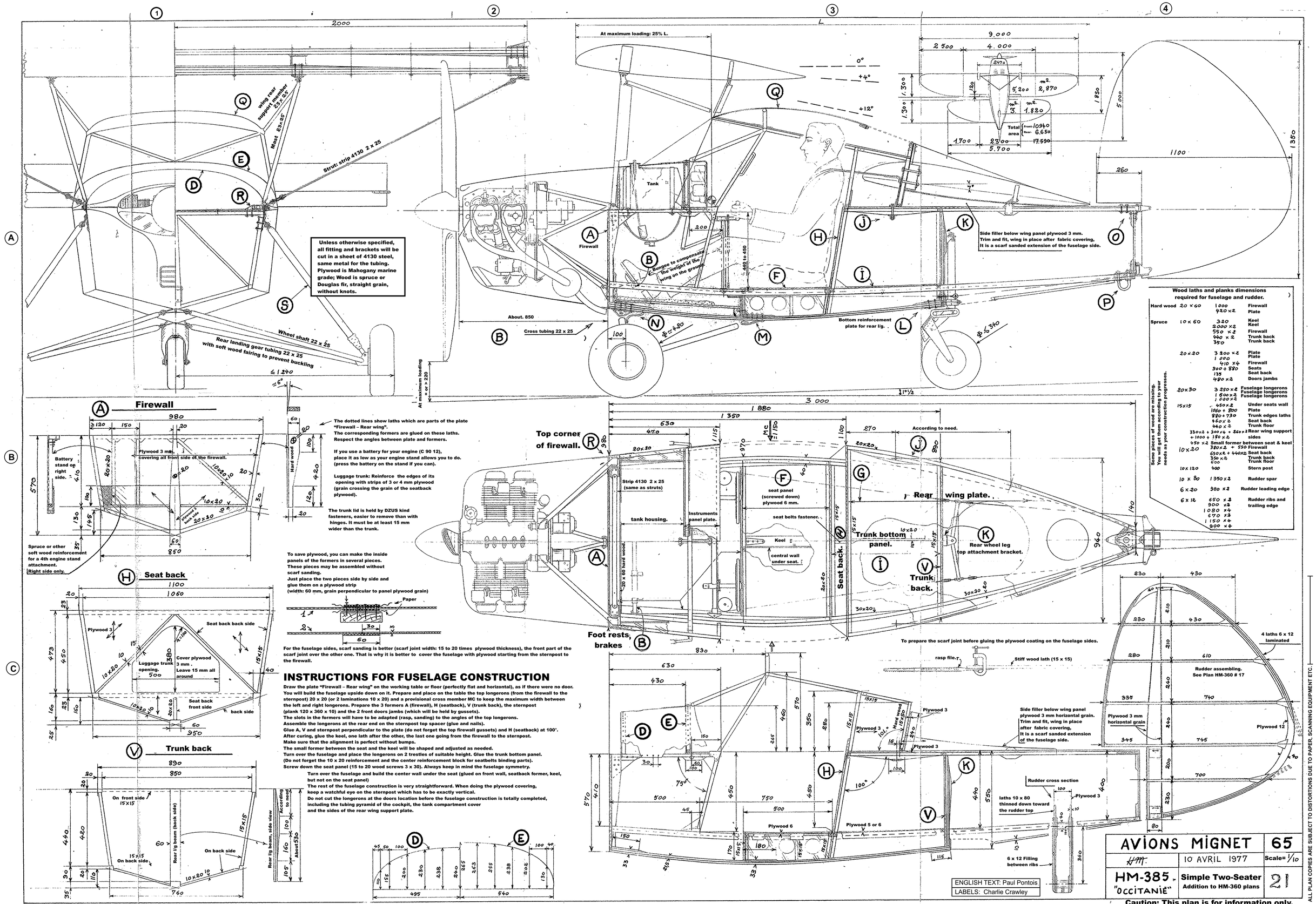

Wood laths and planks dimensions required for fuselage and rudder.

Hard wood	20 × 60	1 000	Firewall
		420 ×2	Plate
Spruce	10 × 60	320	Keel
		2000 ×2	Keel
		550 ×2	Firewall
		940 × 2	Trunk back
		350	Trunk back
	20×20	3 200 ×2	Plate
		1 000	Plate
		410 ×4	Firewall
		300 + 880	Seats
		139	Seat back
		480 ×2	Doors jambs
	20×30	3 250 ×2	Fuselage longerons
		1 500 ×2	Fuselage longerons
		1 000 ×2	Fuselage longerons
	15×15	450 ×2	Under seats wall
		1060 + 800	Plate
		880 + 730	Trunk edges laths
		460 × 2	Seat back
		640 × 2	Trunk floor
		330×2 + 300×6 + 360×2 + 1000 + 180 × 2	Rear wing support sides
		450 ×2	Small former between seat & keel
	10×20	380×2 + 550	Firewall
		650×2 + 440×2	Seat back
		350 ×2	Trunk back
		600	Trunk floor
	10 x 120	900	Stern post
	10 x 80	1 350 ×2	Rudder spar
	6 x 20	980 ×2	Rudder leading edge
	6 x 12	650 ×2	Rudder ribs and trailing edge
		900 ×2	
		1080 ×4	
		670 ×2	
		1 150 ×4	
		800 ×4	

Some pieces of wood are missing. Select pieces of wood as your needs as your construction progresses.

A — Firewall

The dotted lines show laths which are parts of the plate "Firewall – Rear wing".
The corresponding formers are glued on these laths.
Respect the angles between plate and formers.

If you use a battery for your engine (C 90 12), place it as low as your engine stand allows you to do. (press the battery on the stand if you can).

Luggage trunk: Reinforce the edges of its opening with strips of 3 or 4 mm plywood (grain crossing the grain of the seatback plywood).

The trunk lid is held by DZUS kind fasteners, easier to remove than with hinges. It must be at least 15 mm wider than the trunk.

H — Seat back

V — Trunk back

To save plywood, you can make the inside panels of the formers in several pieces. These pieces may be assembled without scarf sanding.
Just place the two pieces side by side and glue them on a plywood strip (width: 60 mm, grain perpendicular to panel plywood grain)

For the fuselage sides, scarf sanding is better (scarf joint width: 15 to 20 times plywood thickness), the front part of the scarf joint over the other one. That is why it is better to cover the fuselage with plywood starting from the sternpost to the firewall.

INSTRUCTIONS FOR FUSELAGE CONSTRUCTION

Draw the plate "Firewall – Rear wing" on the working table or floor (perfectly flat and horizontal), as if there were no door.
You will build the fuselage upside down on it. Prepare and place on the table the top longerons (from the firewall to the sternpost) 20 x 20 (or 2 laminations 10 x 20) and a provisional cross member MC to keep the maximum width between the left and right longerons. Prepare the 3 formers A (firewall), H (seatback), V (trunk back), the sternpost (plank 120 x 360 x 10) and the 2 front doors jambs (which will be held by gussets).
The slots in the formers will have to be adapted (rasp, sanding) to the angles of the top longerons.
Assemble the longerons at the rear end on the sternpost top spacer (glue and nails).
Glue A, V and sternpost perpendicular to the plate (do not forget the top firewall gussets) and H (seatback) at 100°.
After curing, glue the keel, one lath after the other, the last one going from the firewall to the sternpost.
Make sure that the alignment is perfect without bumps.
The small former between the seat and the keel will be shaped and adjusted as needed.
Turn over the fuselage and place the longerons on 2 trestles of suitable height. Glue the trunk bottom panel.
(Do not forget the 10 x 20 reinforcement and the center reinforcement block for seatbelts binding parts).
Screw down the seat panel (15 to 20 wood screws 3 x 30). Always keep in mind the fuselage symmetry.

Turn over the fuselage and build the center wall under the seat (glued on front wall, seatback former, keel, but not on the seat panel)
The rest of the fuselage construction is very straightforward. When doing the plywood covering, keep a watchful eye on the sternpost which has to be exactly vertical.
Do not cut the longerons at the doors location before the fuselage construction is totally completed, including the tubing pyramid of the cockpit, the tank compartment cover and the sides of the rear wing support plate.

ENGLISH TEXT: Paul Pontois
LABELS: Charlie Crawley

AVIONS MIGNET		65
~~HM~~	10 AVRIL 1977	Scale= 1/10
HM-385 "OCCITANIE"	Simple Two-Seater Addition to HM-360 plans	2 1

Caution: This plan is for information only, as far as we are aware, the HM-385 has never been built.

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