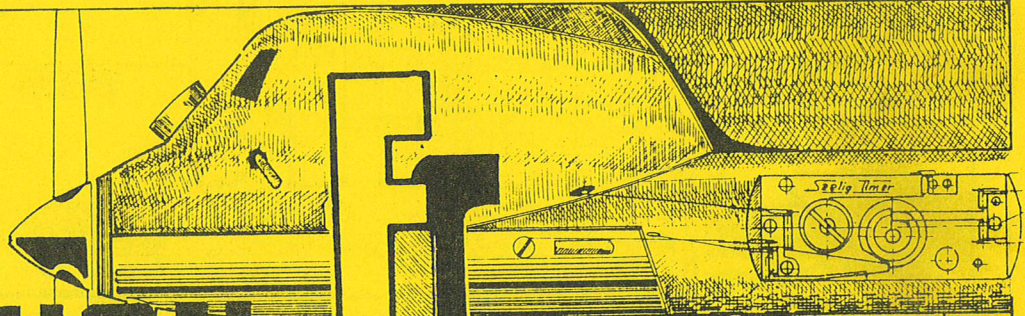




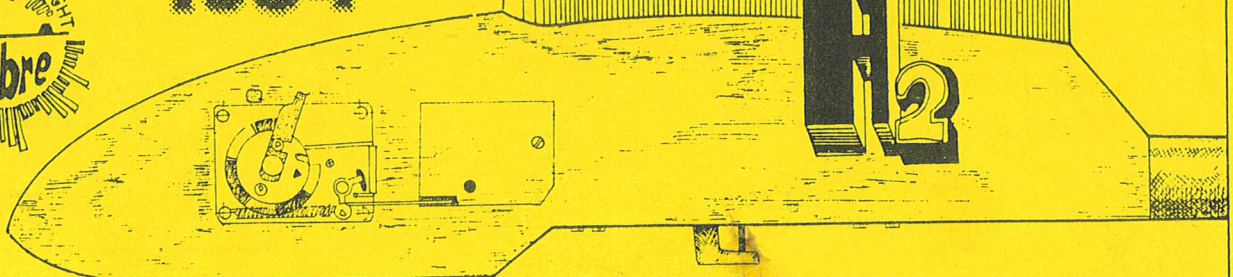
VOL LIBRE

PLANS
PLANBUCH
PLAN-BOOK



wake

1984



A12

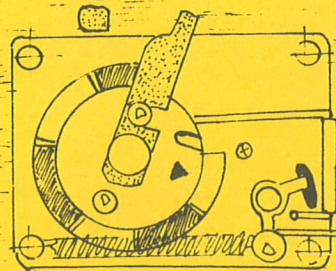
PLANS

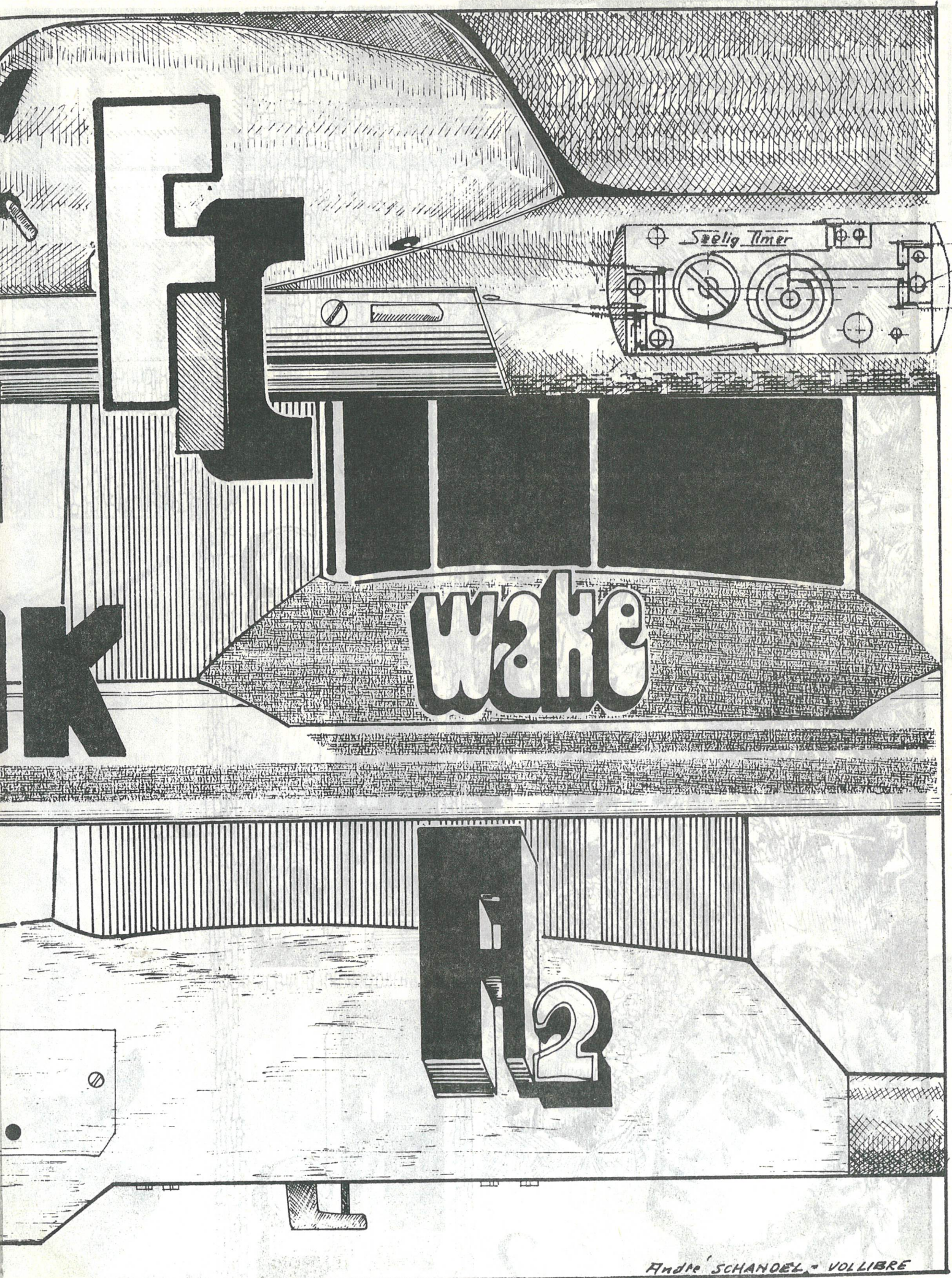
PLANBUCH

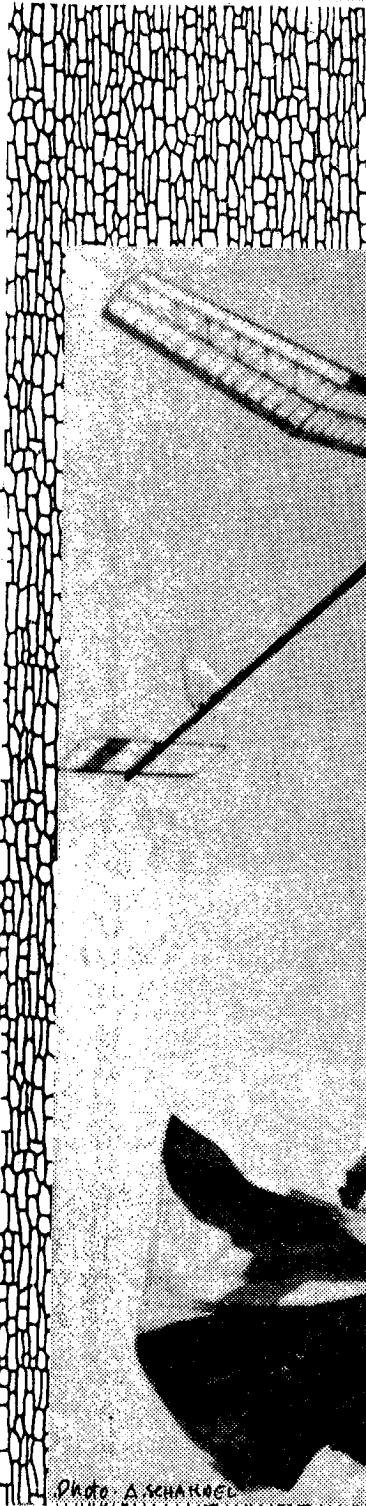
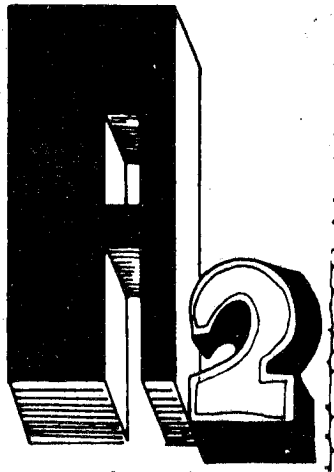
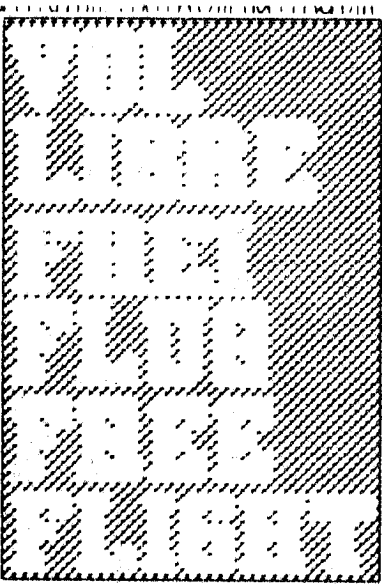
PLAN-BOO

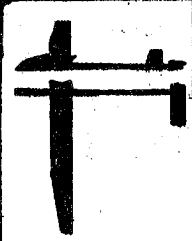


1984

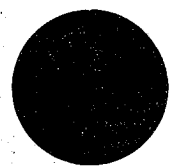








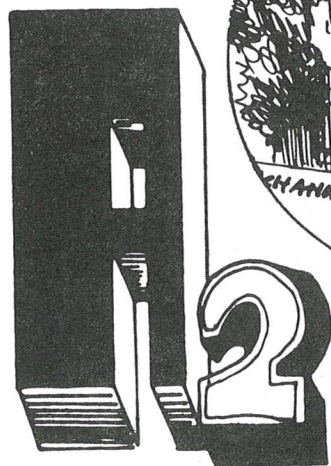
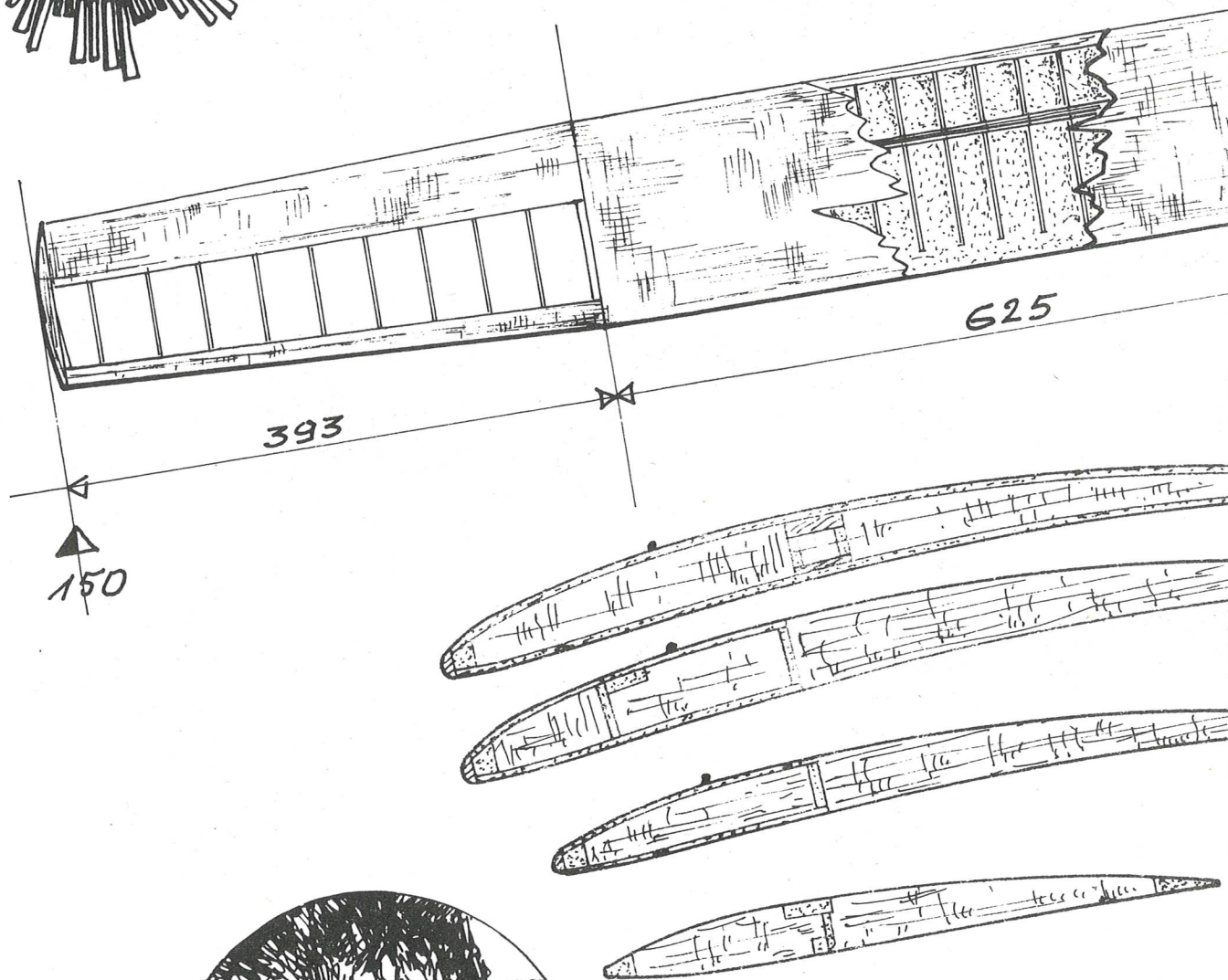
VOL LIBRE





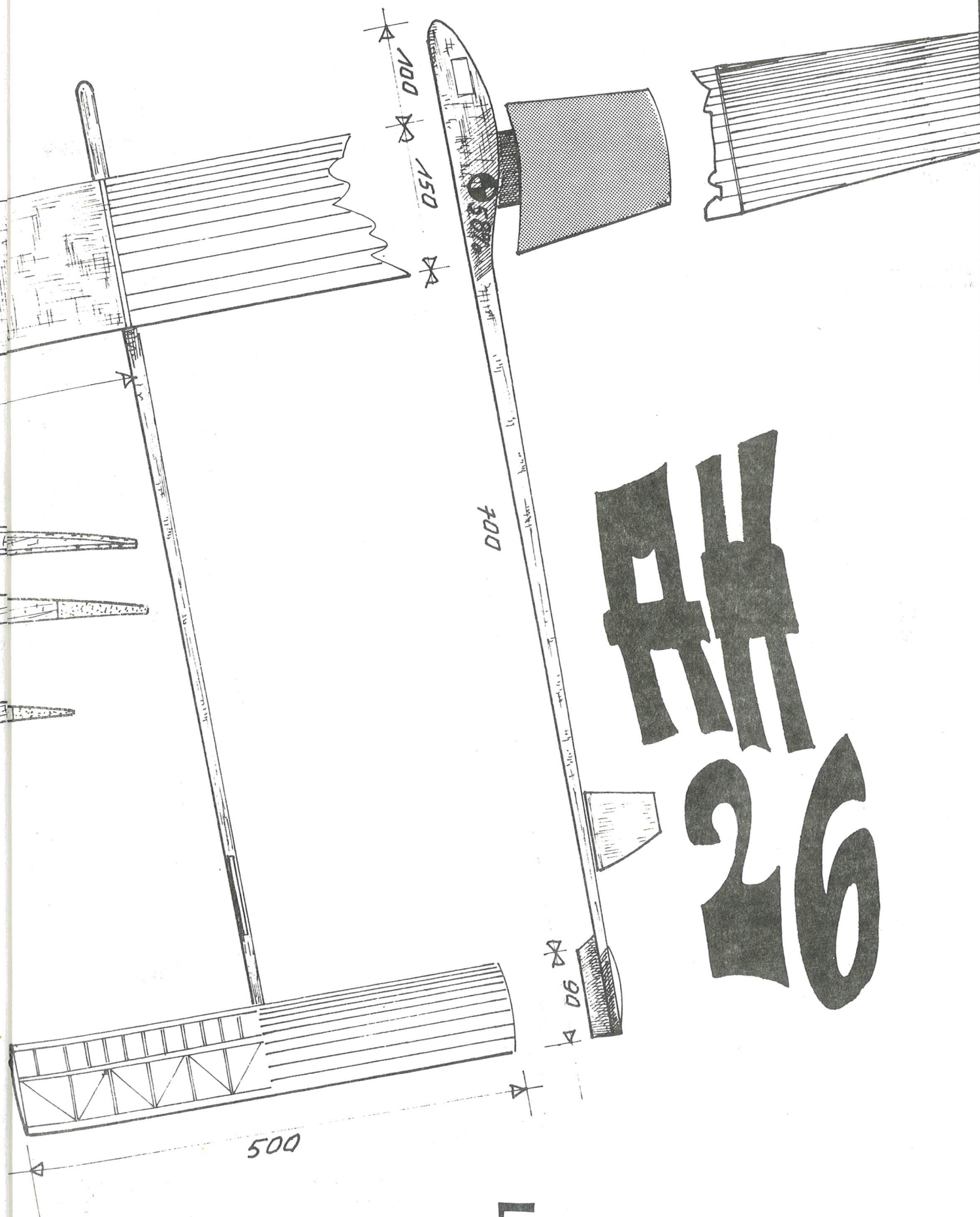
ARNO HACKEN

N.L.



4

ECHELLE 1/5 1/1 - A. SCHANDEL

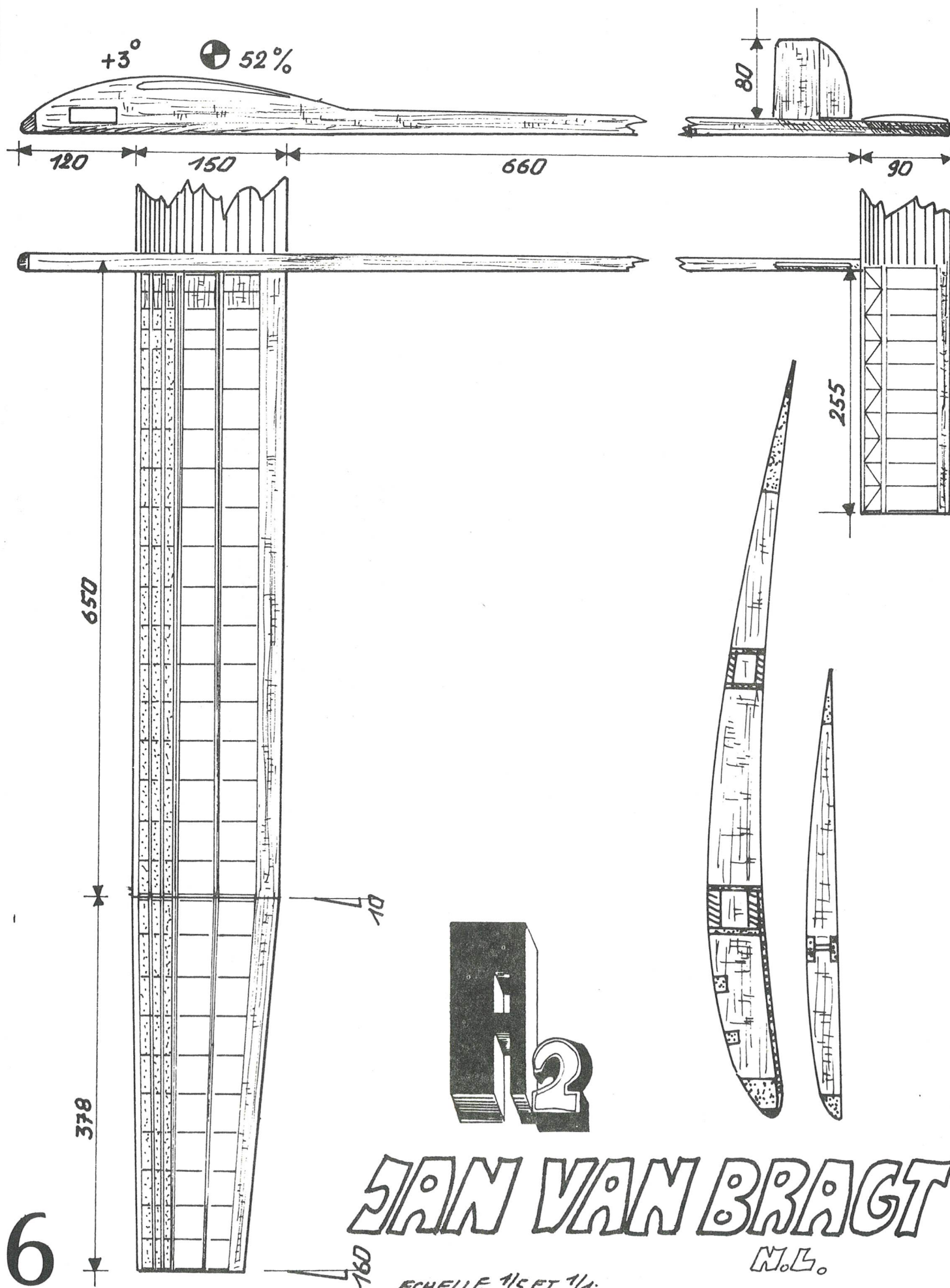


冊
26

5

"VOL LIBRE"

A. SCHANDEL. "VOL LIBRE"



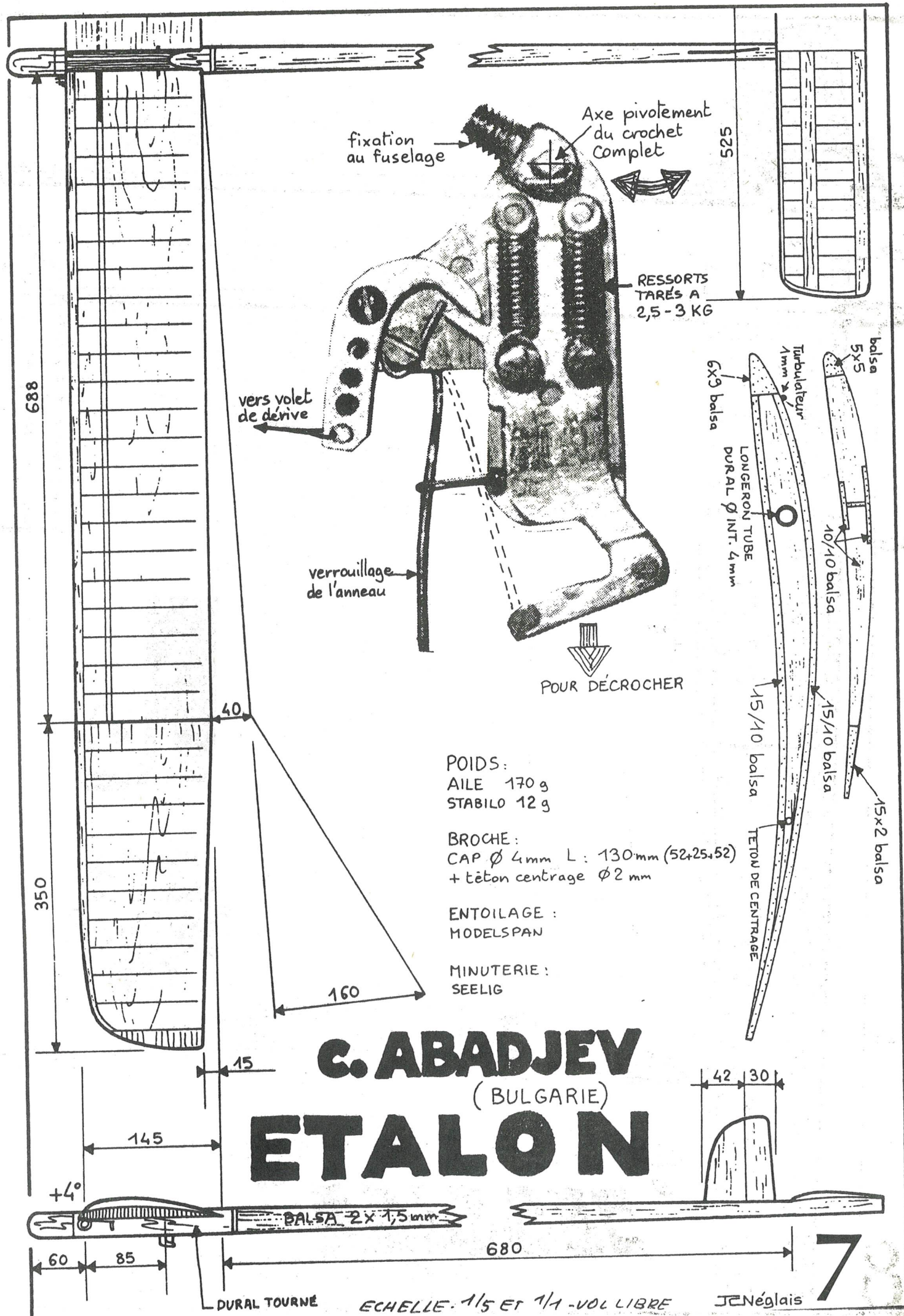
6

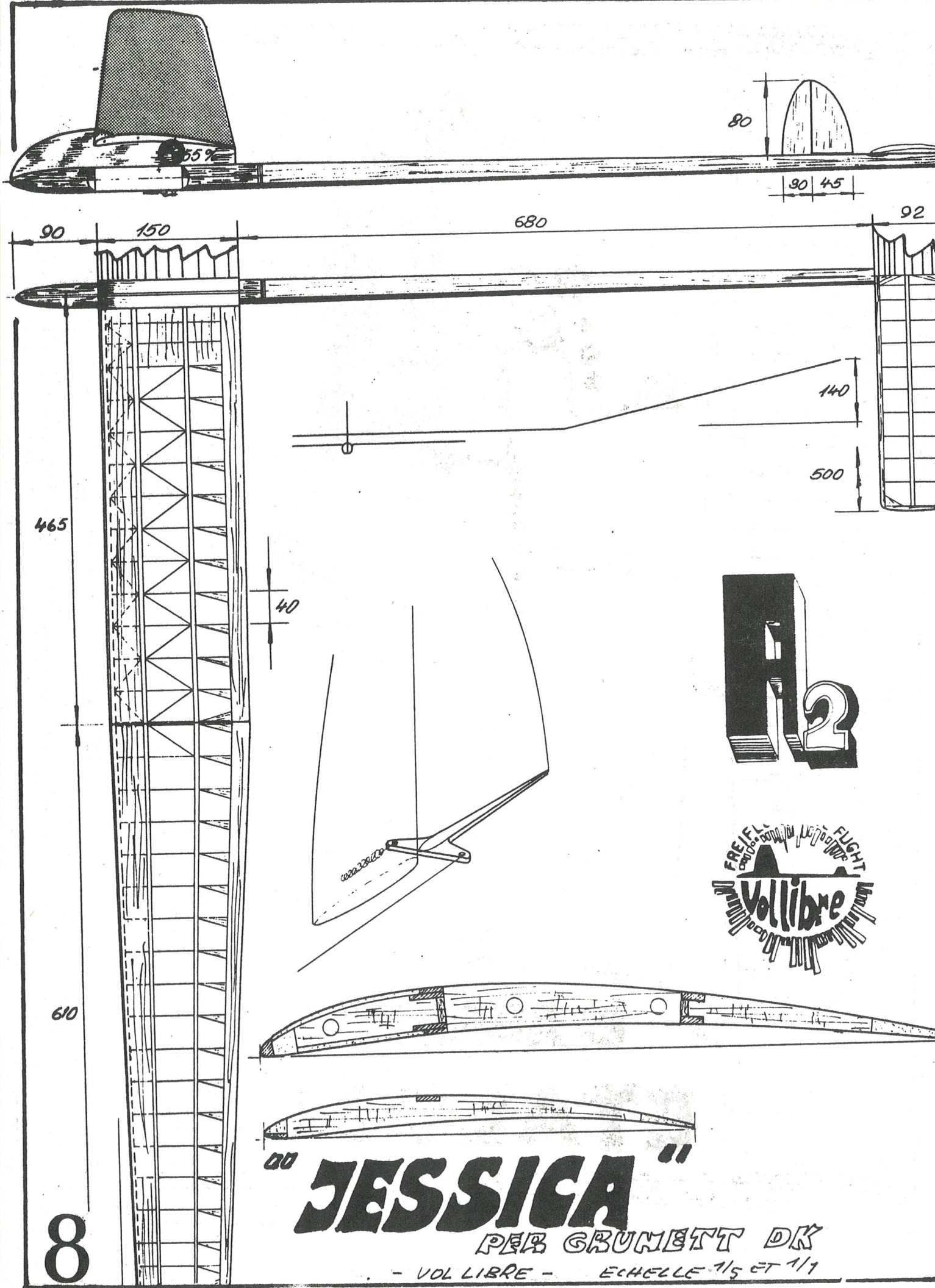
FL2

JAN VAN BRAGT

N.L.

ECHELLE 1/5 ET 1/4





A2



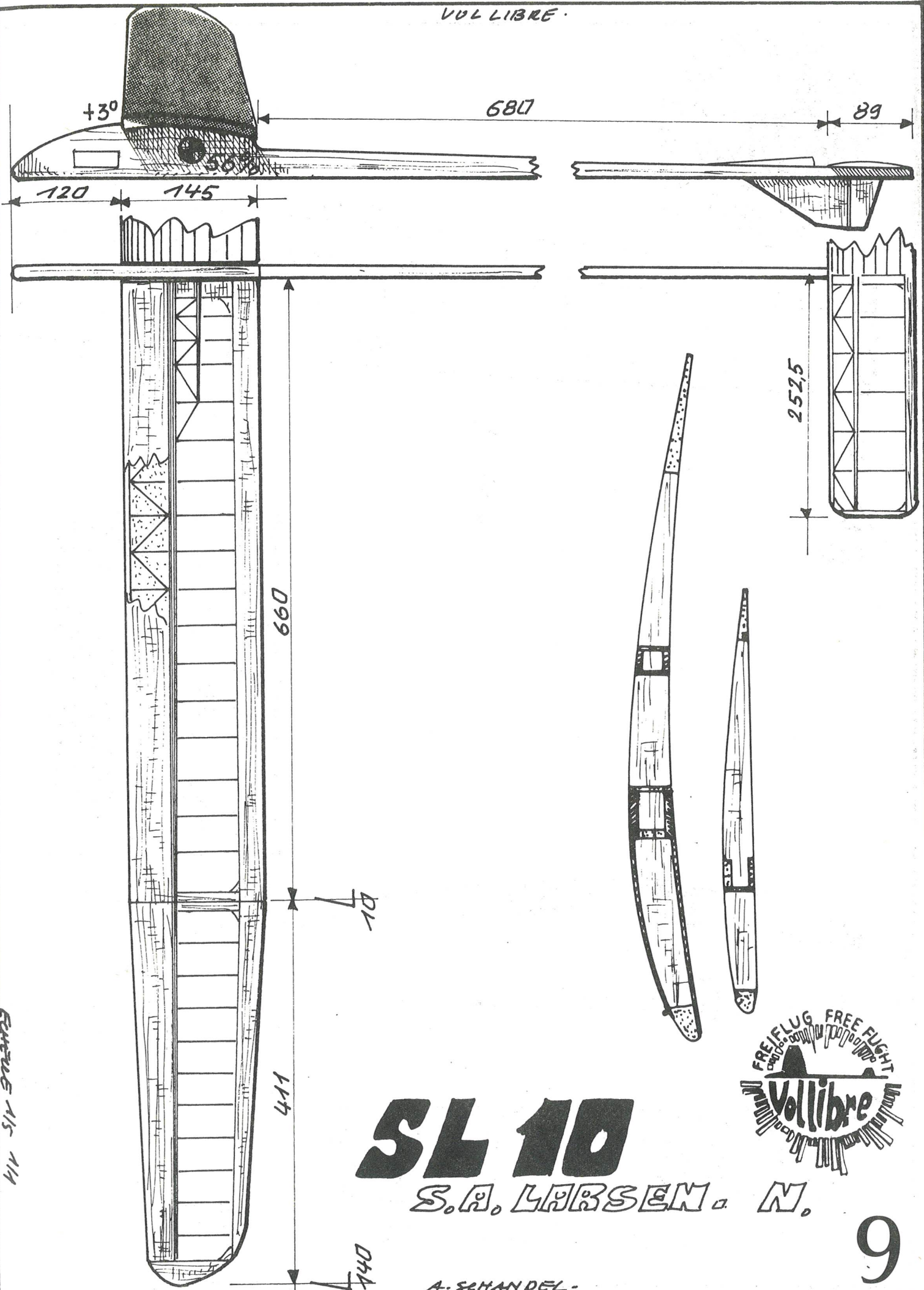
"JESSICA"

PER GRUNETT DK

- VOL LIBRE - Echelle 1/5 et 1/1

8

VOL LIBRE.



SL 10

S.A. LARSEN. N.

A. SCHANDEL.

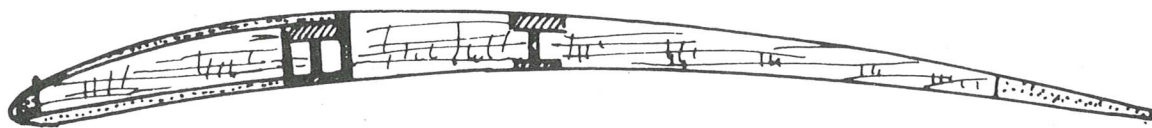
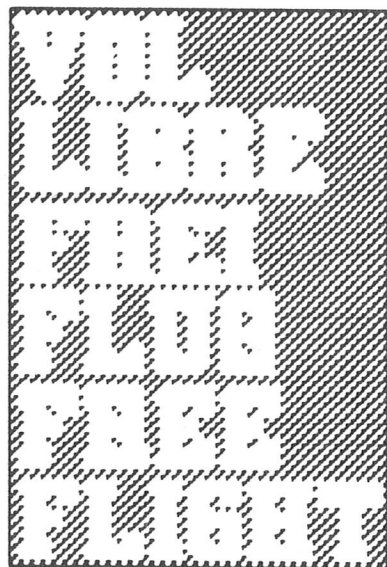
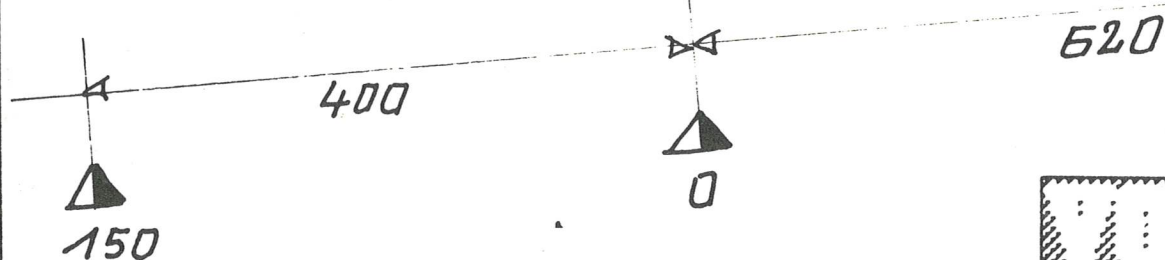
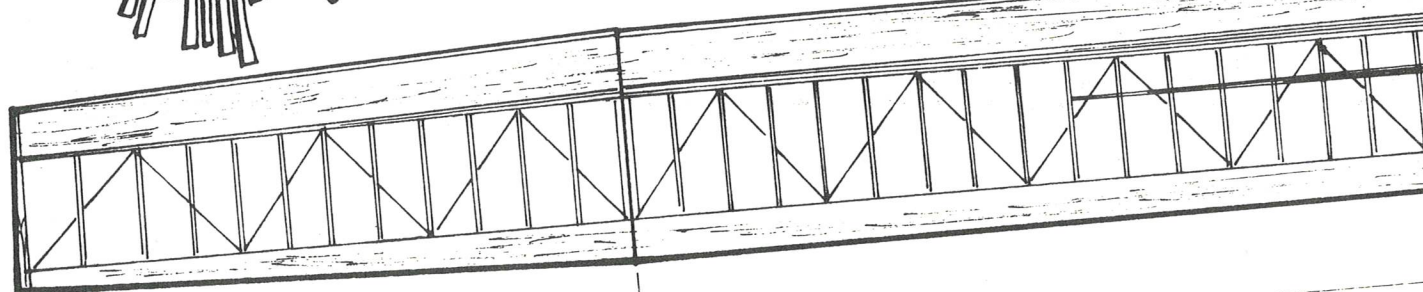


9

RECHERCHE A15 114



COFFRAGE RECOUVERT. TISSUE F.L.V. 24g



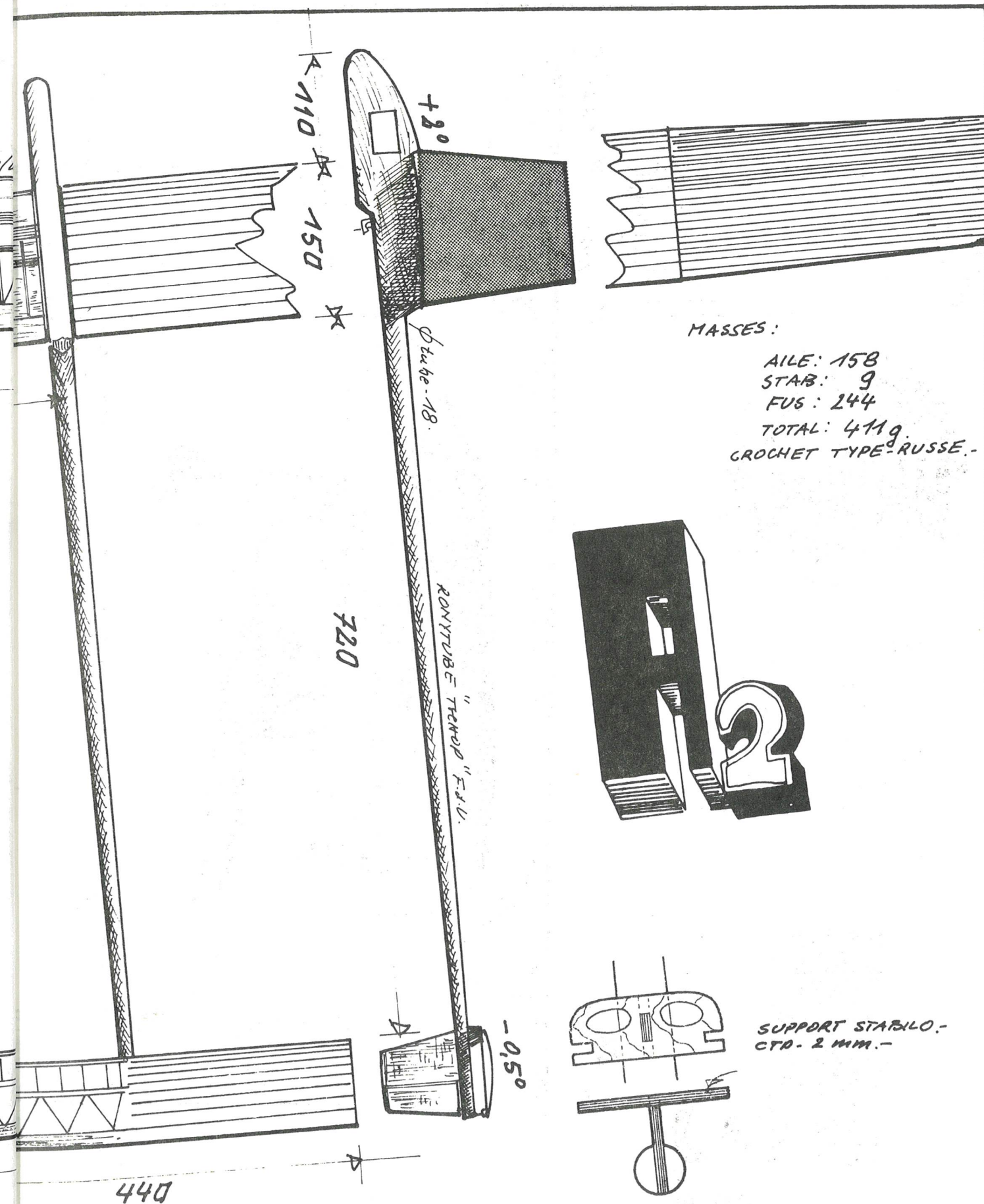
00

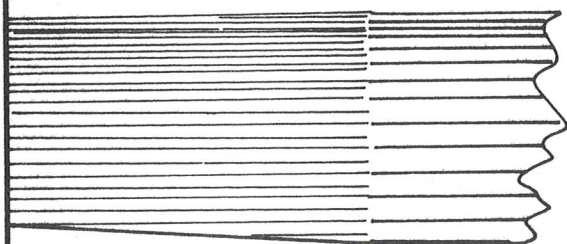
FROJFAXE

00

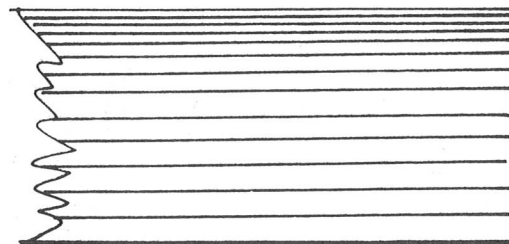
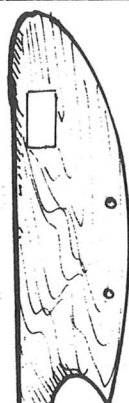
STEFFEN JENSEN DK

10





110 *
150 *



NE

→



MASSÉS:

AILES: 125 g.

STAB: 12

FUS: 275

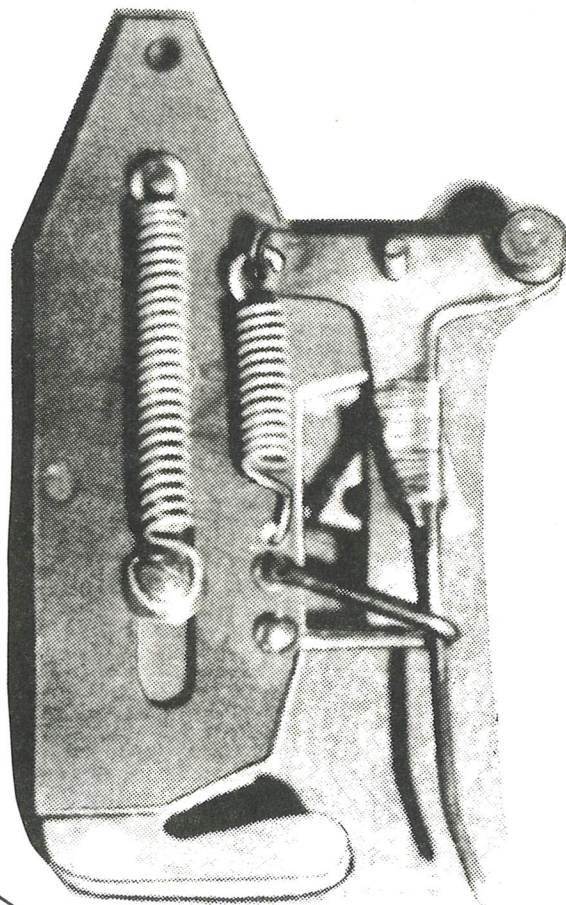
TOTAL: 412 g.

AIRES:

AILE: 29,35 dm²

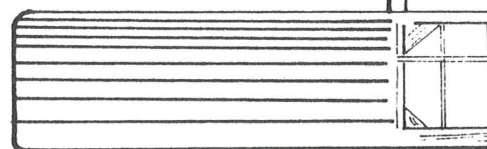
STAB: 4,52 dm²

700

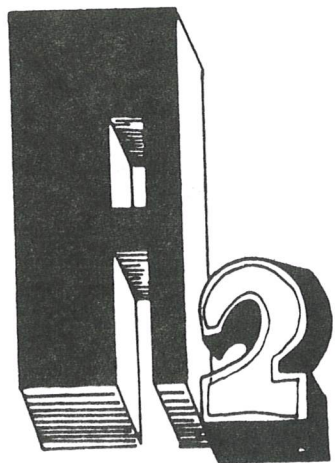


90 *

90 *



500



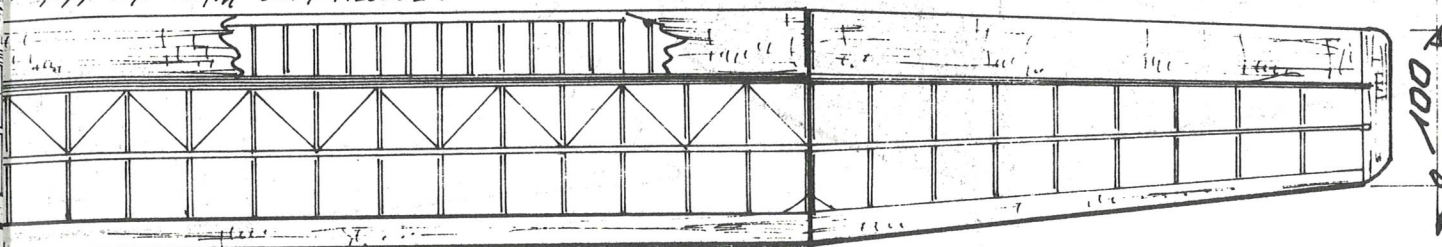
12

A. SCHANDEL - ECHELLE 1/5 - 1/1

V. TSCHOPP

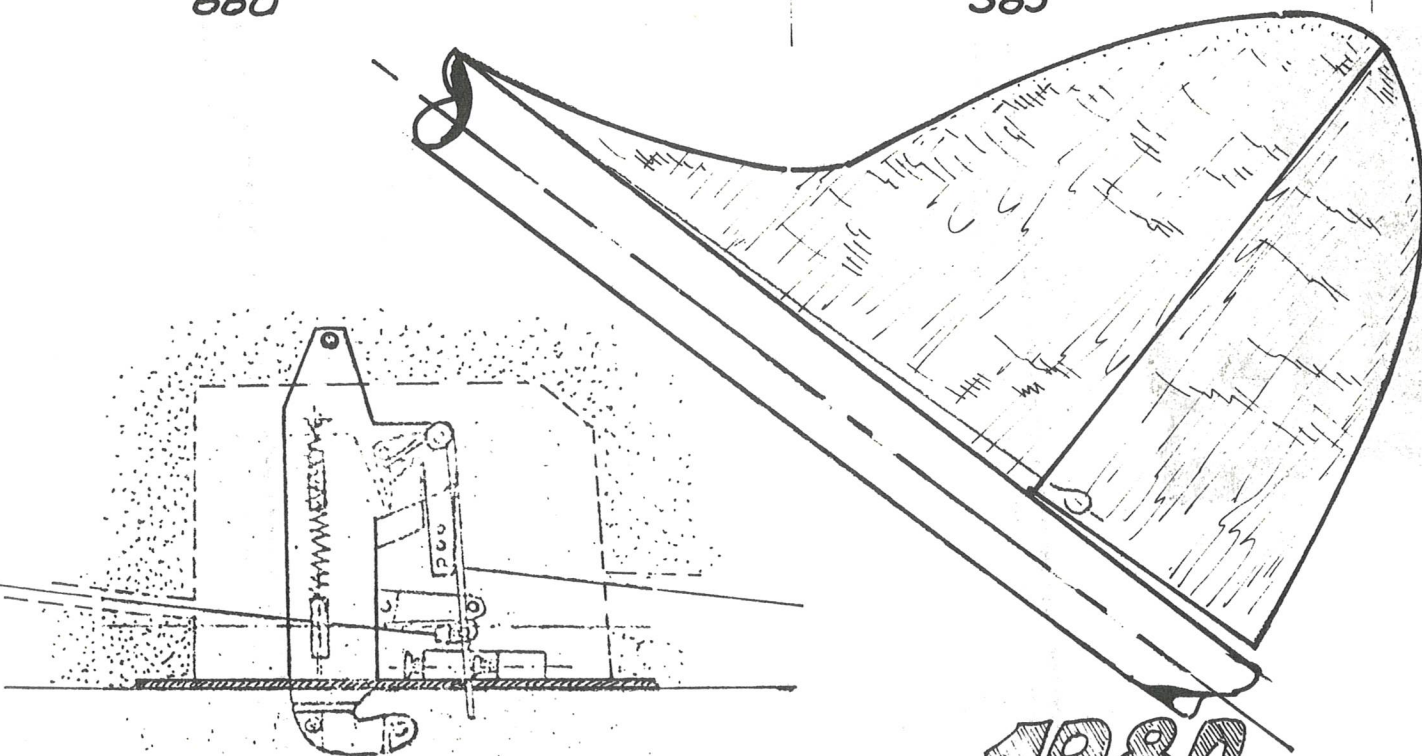
U.R.S.S.

1-2,34,5 ctp - 1m/m - 6 et 7 TILLEUL -

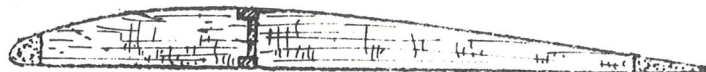
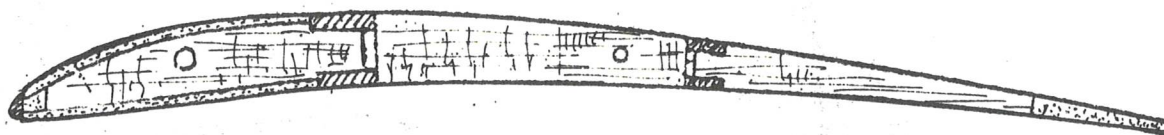


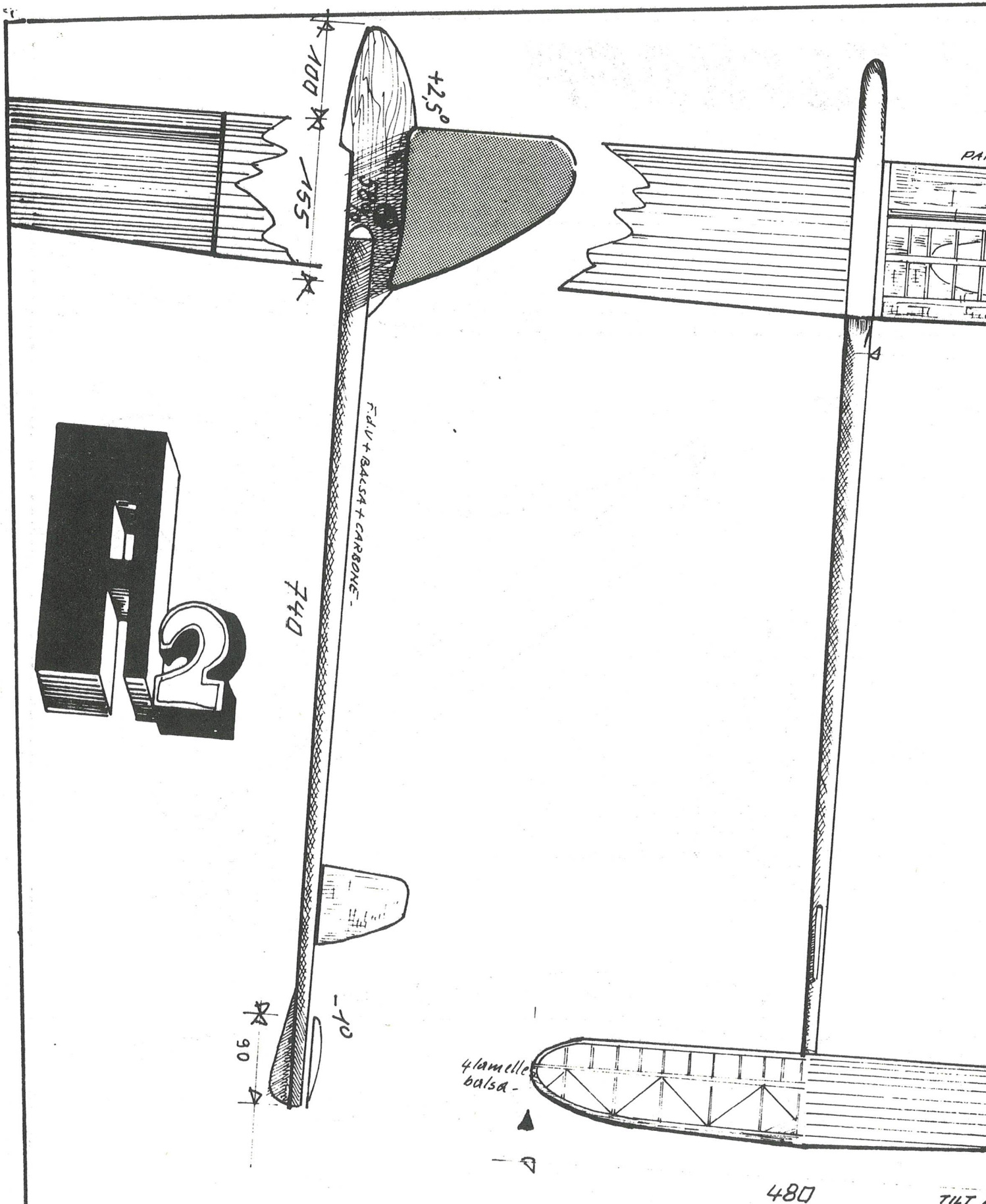
660

385



1980

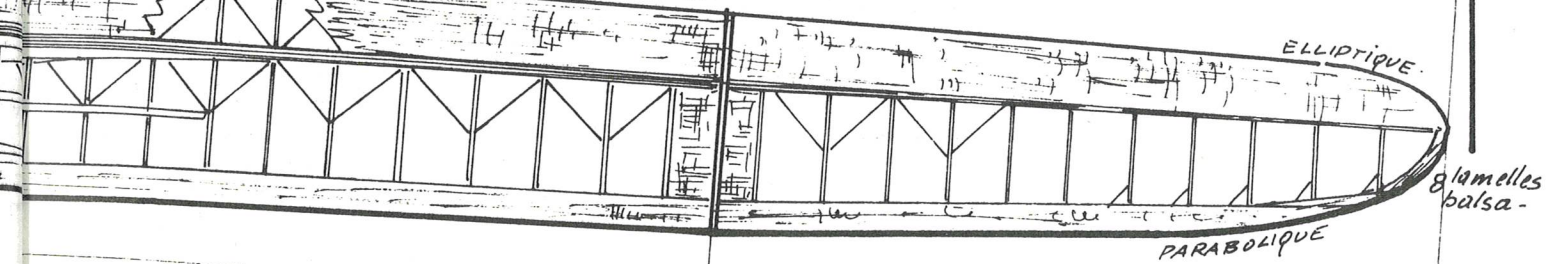




14

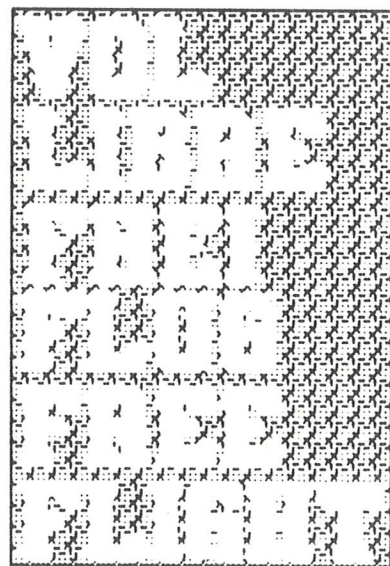
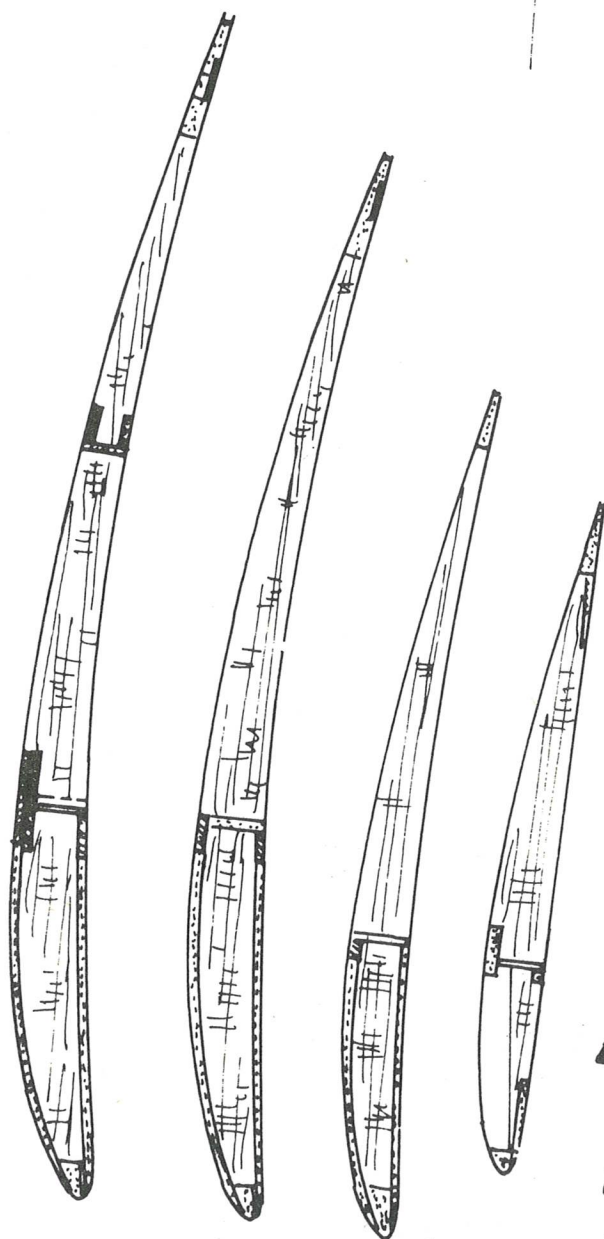
H. SCHANDEL - ECHELLE $1/5$ ET $1/4$ - "VOL LIBRE"

RIG FREE - RECouverte TISSU F.D.U. - PARTIE CENTRALE.

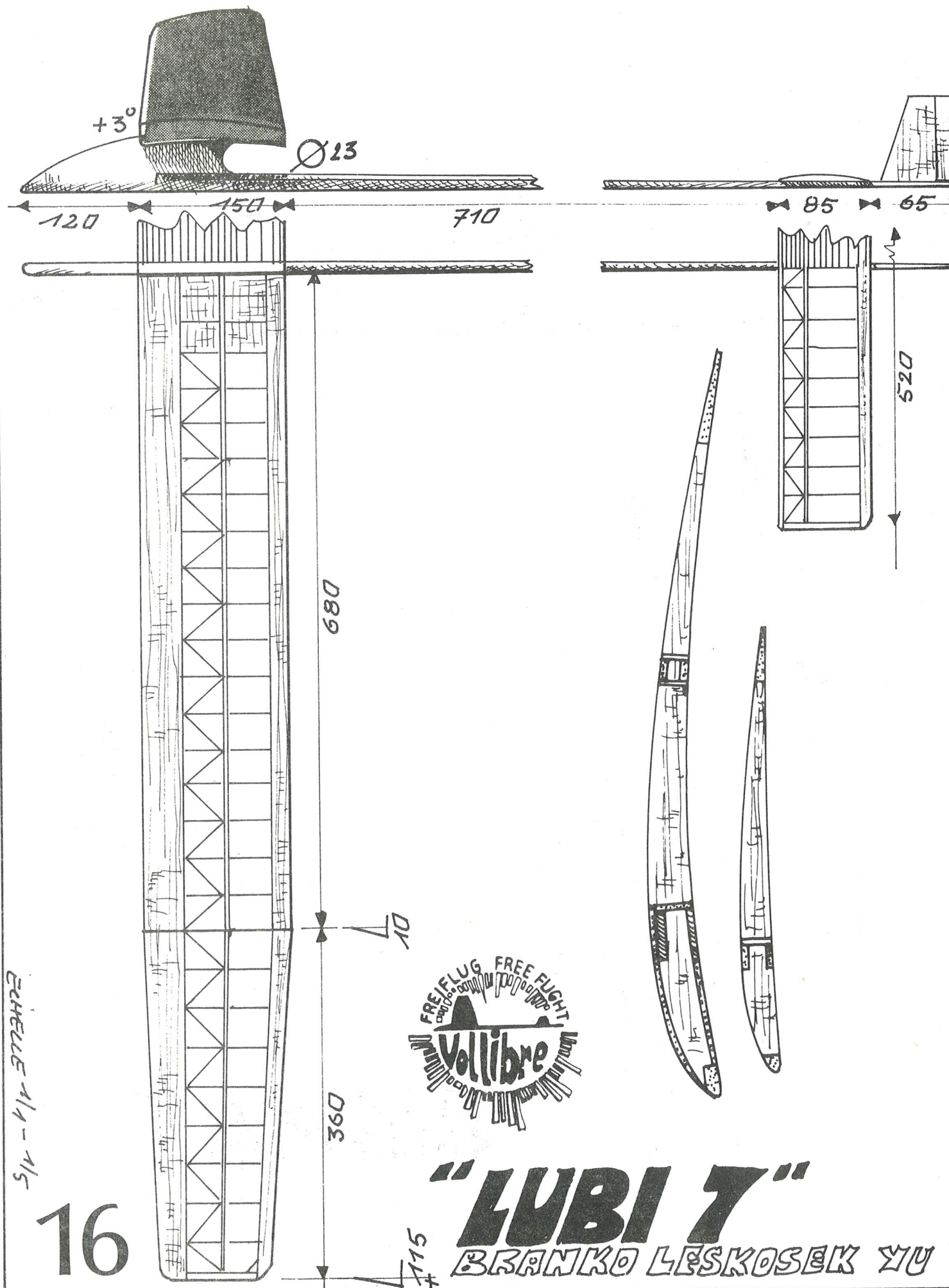


540

480



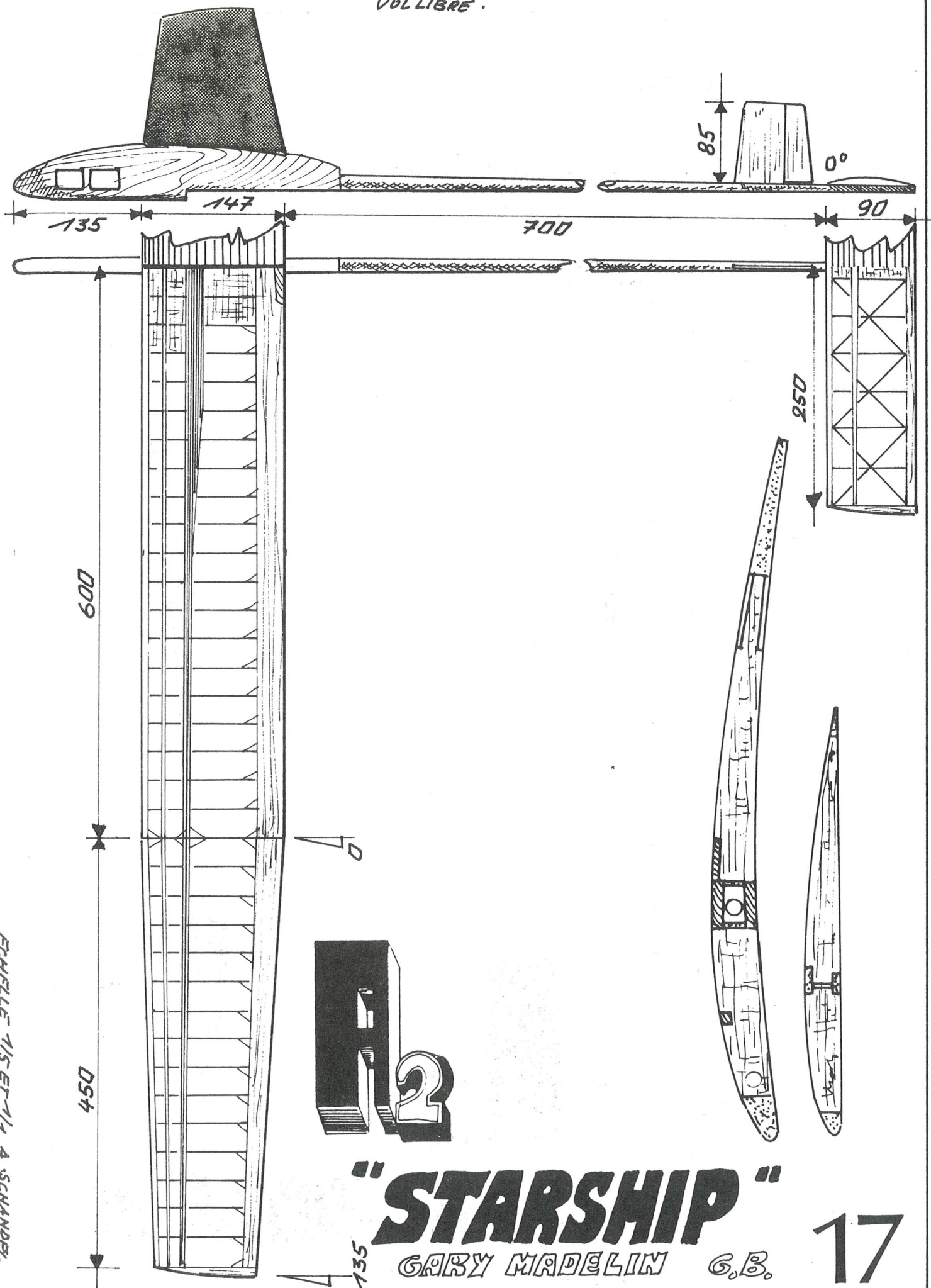
"**BIG MAX**"
LEE HINES 15



ÉCHELLE 1/4 - 1/5

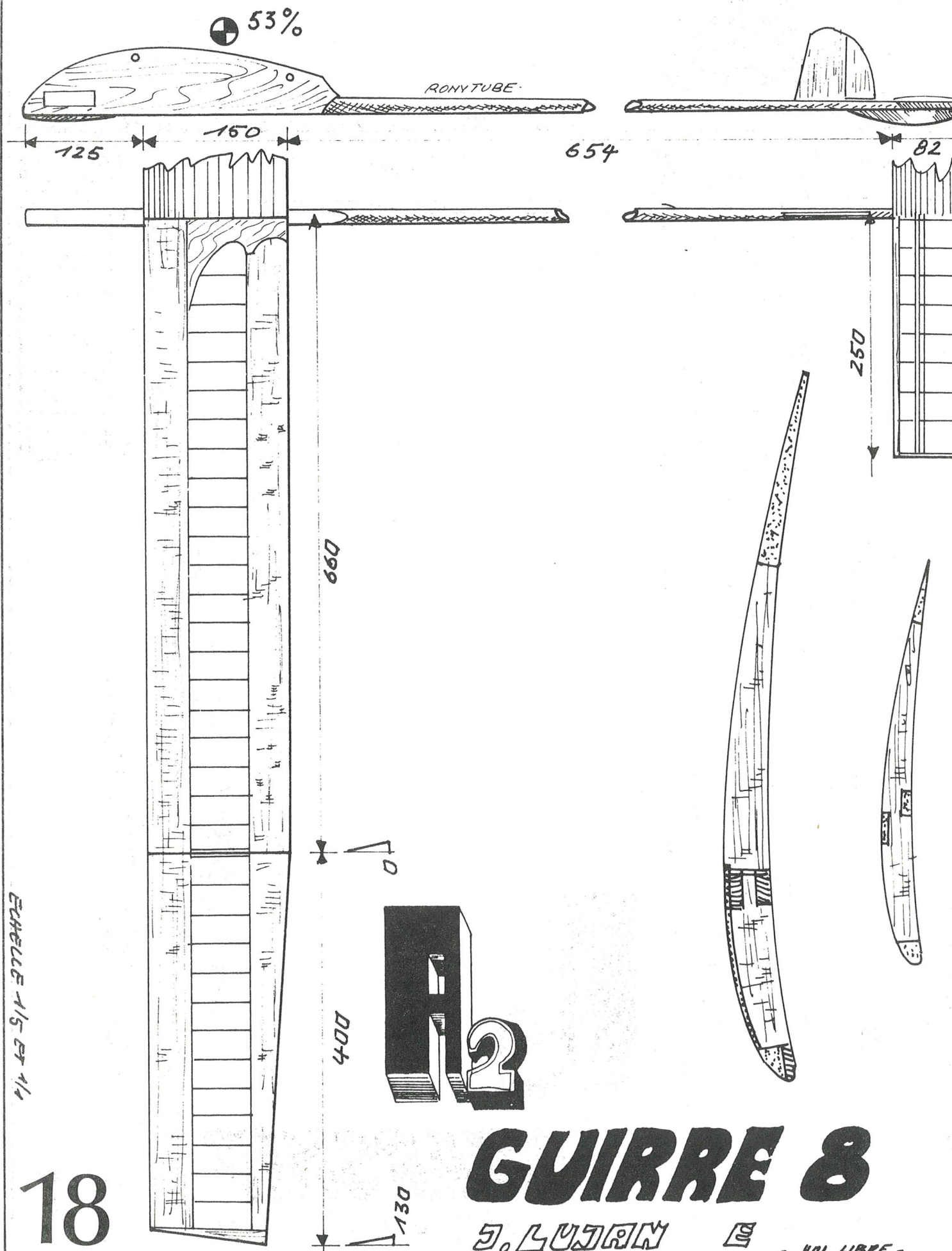
16

VOL LIBRE.

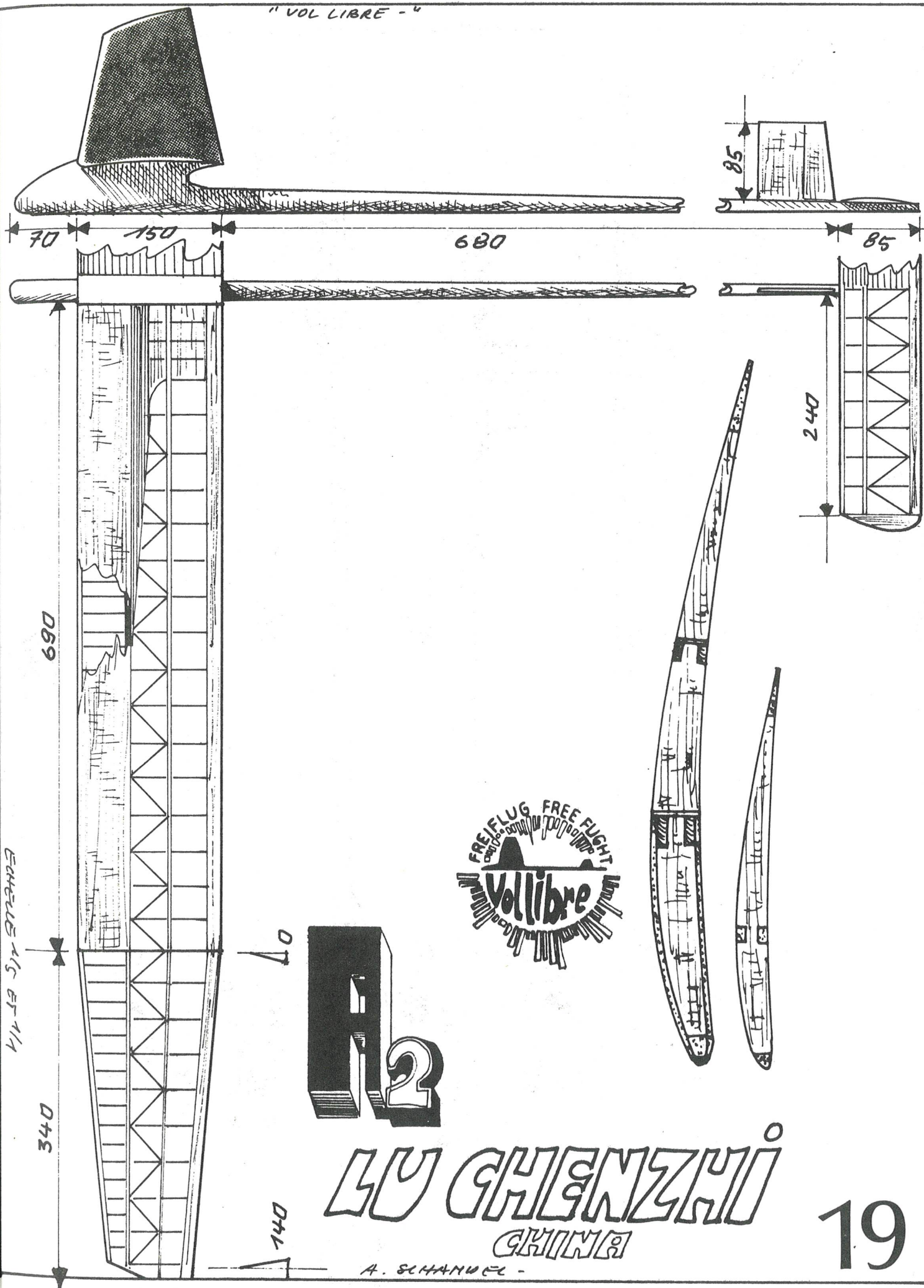


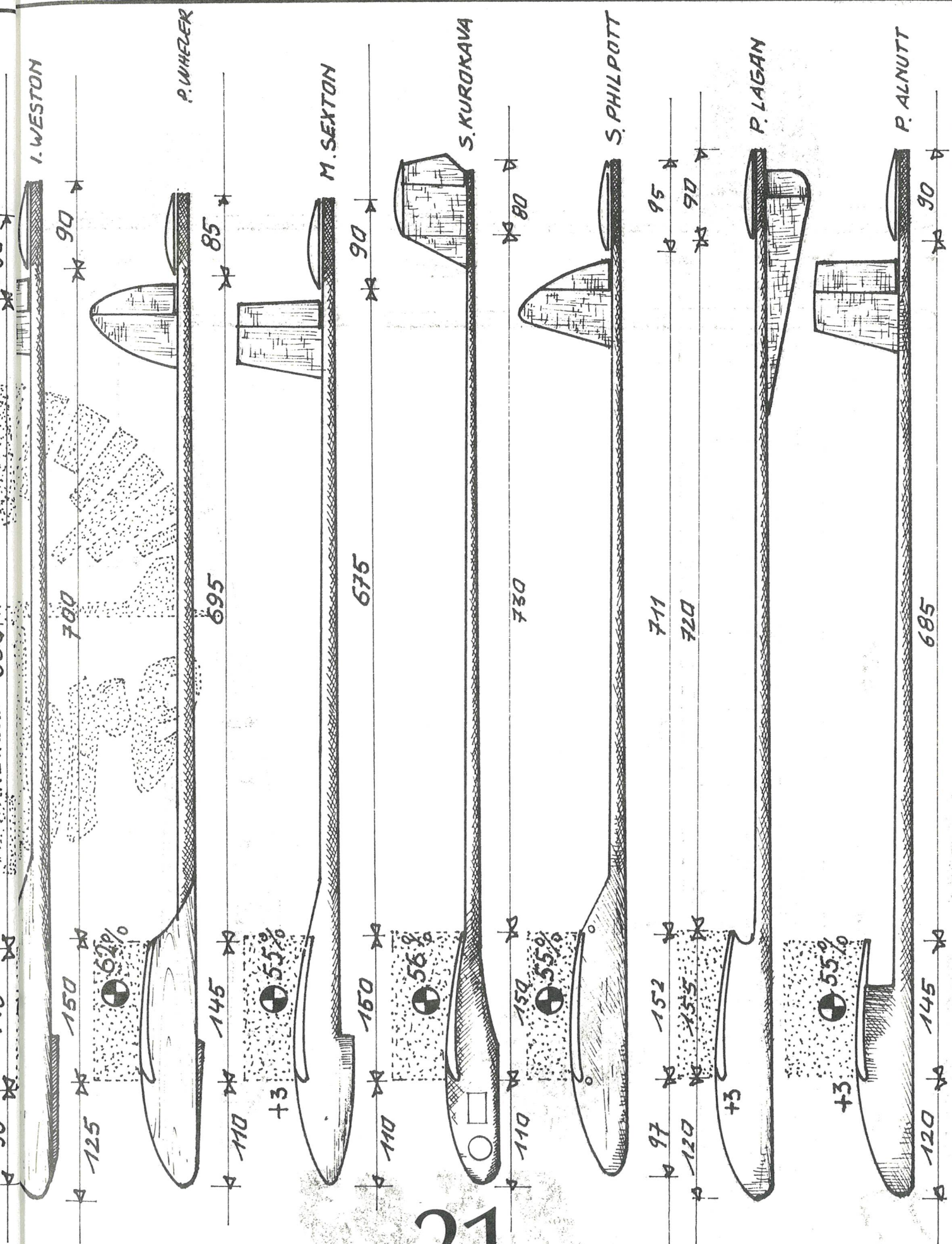
ECHÉLLE 1/15 ET 1/14 A SCHNABEL

"STARSHIP"
GARY MADELIN G.B.

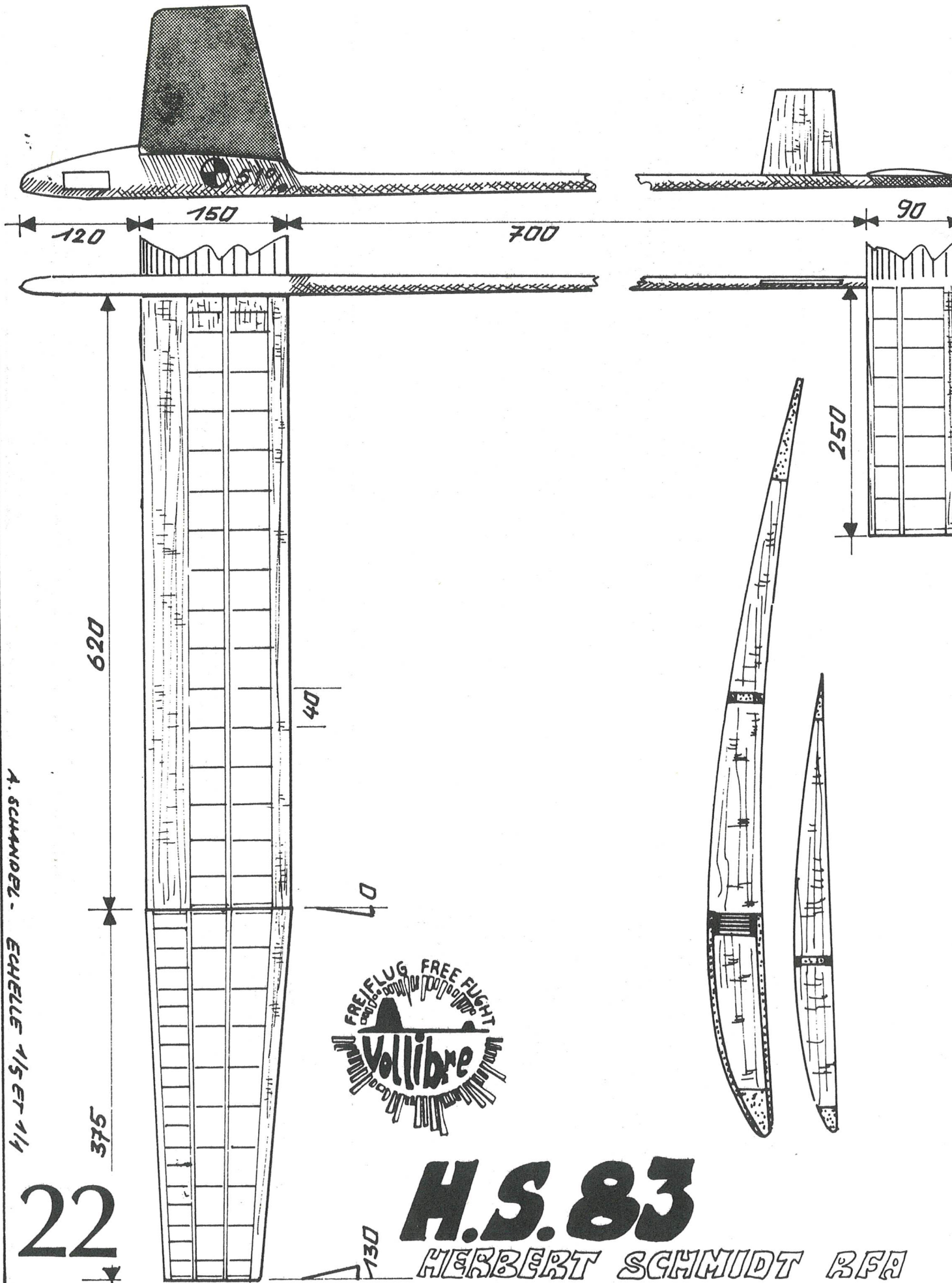


"VOL LIBRE" - "





- VOL LIBRE -



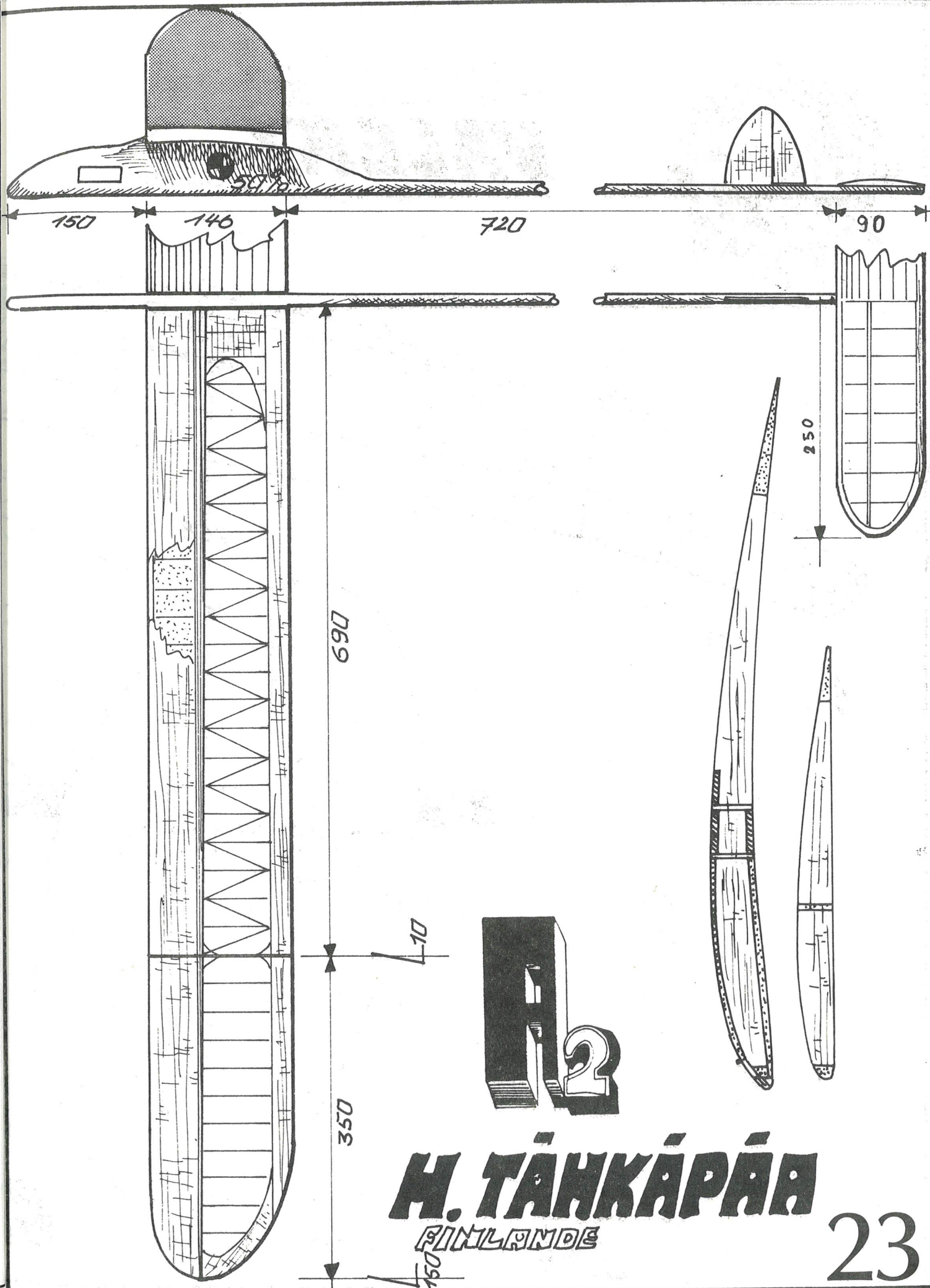
A. SCHMIDT - ECHELLE 1/5 ET 1/4

22



H.S. 83

HERBERT SCHMIDT RFA



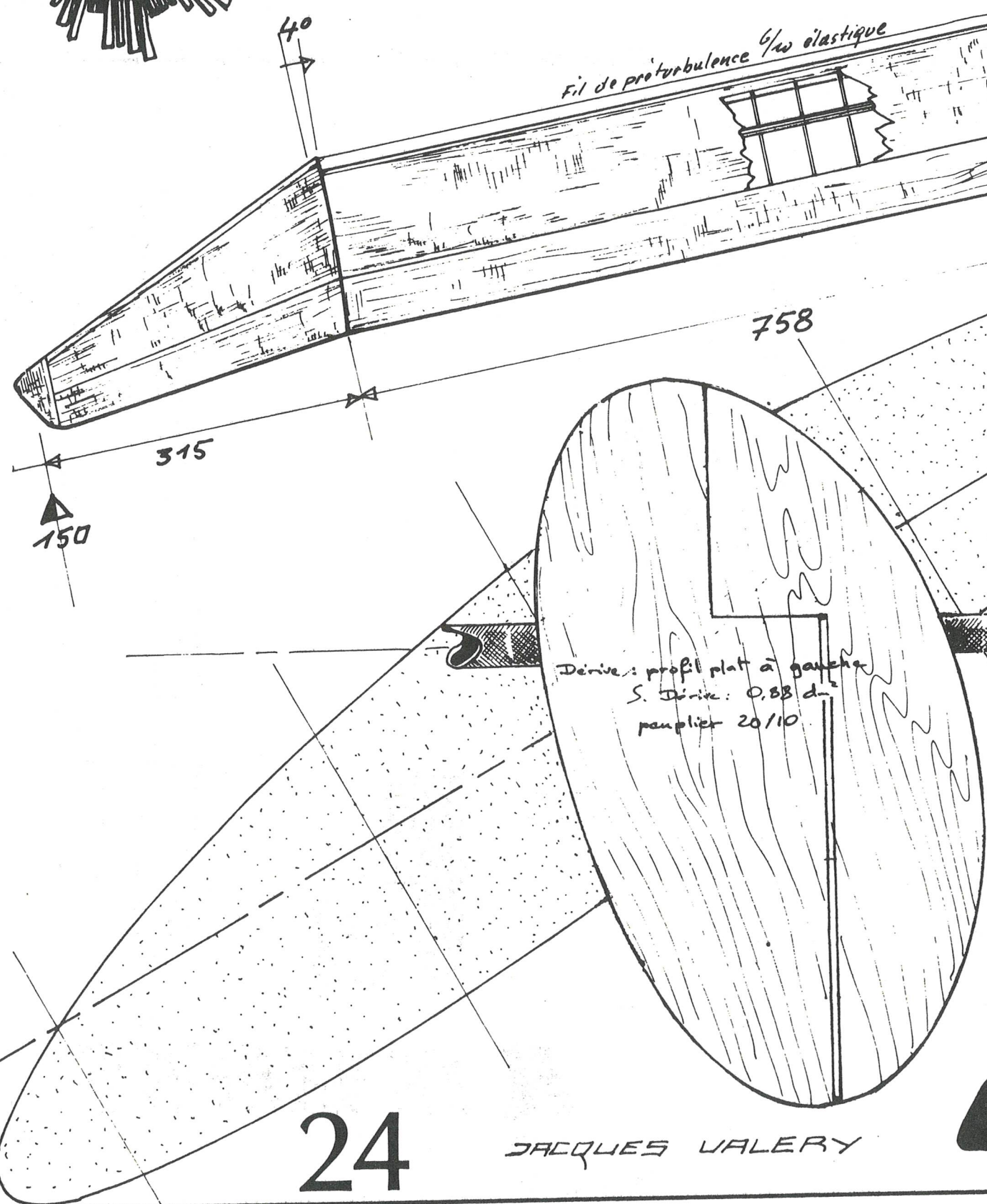
H. TÄNKÄPÄÄ
FINLAND

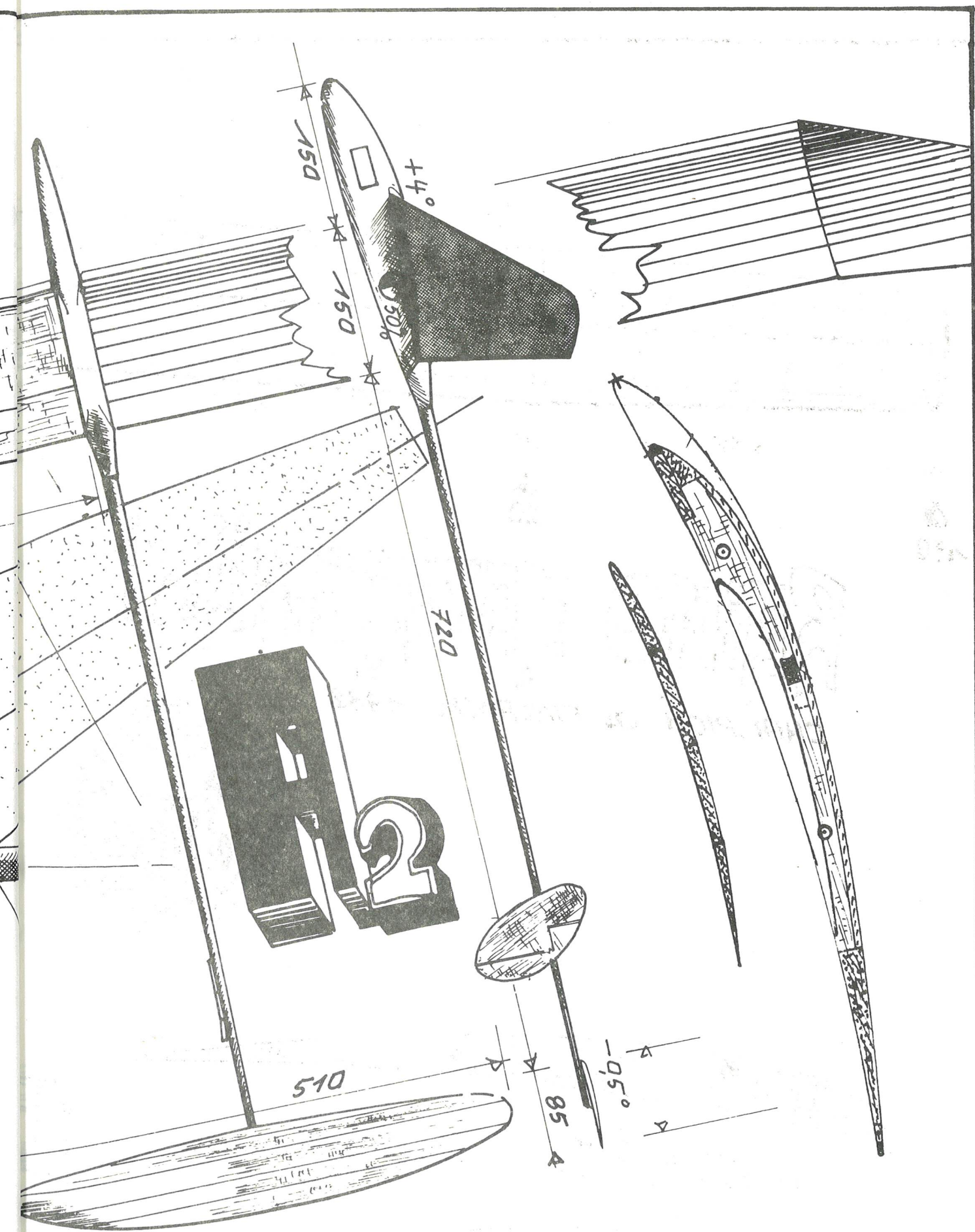
23



JACQUES VALERY

FRANCE

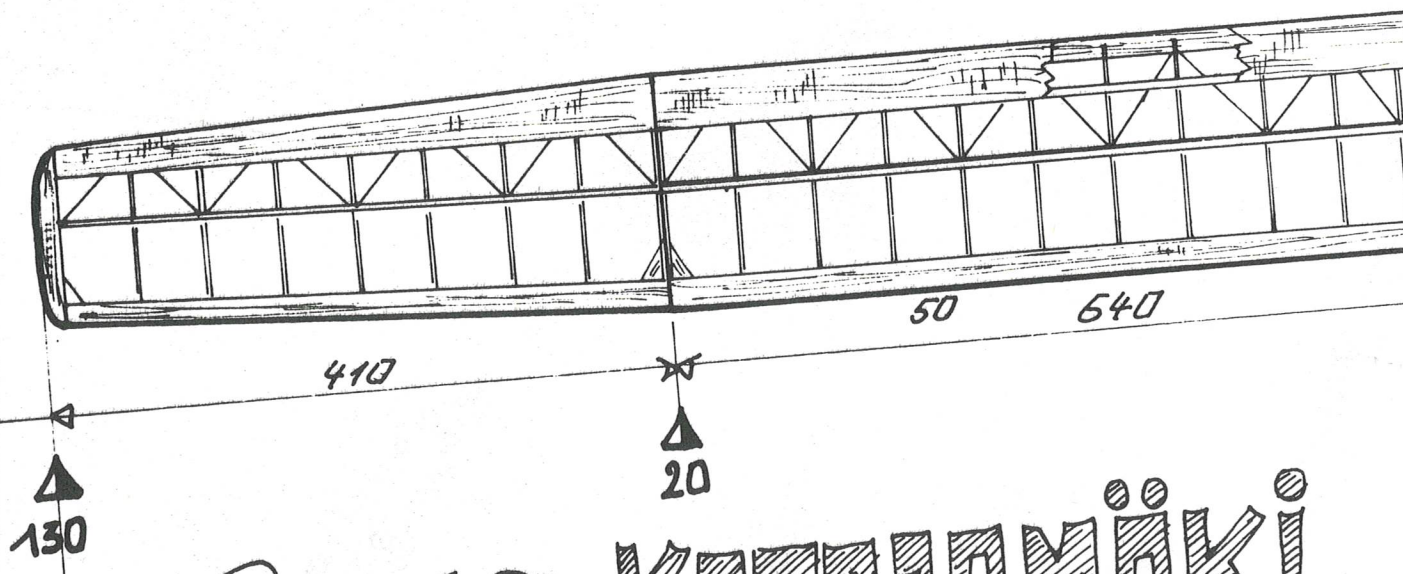




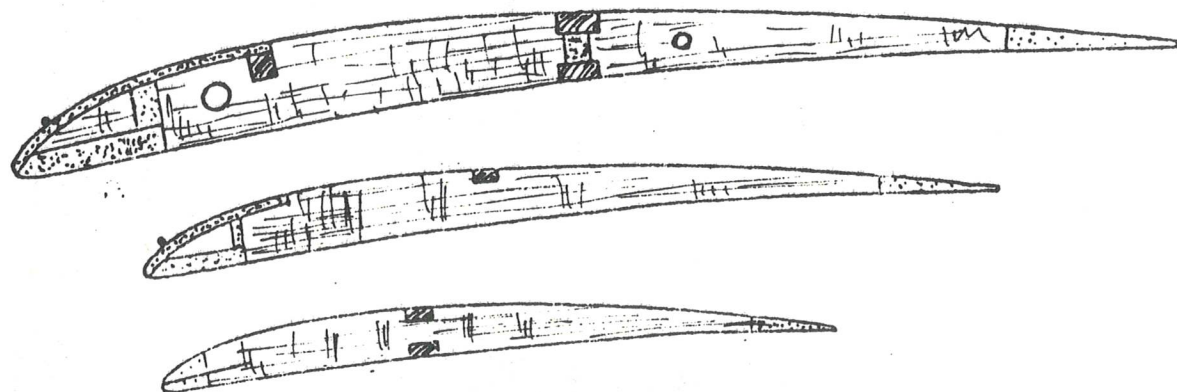
PIHUAHUA 82

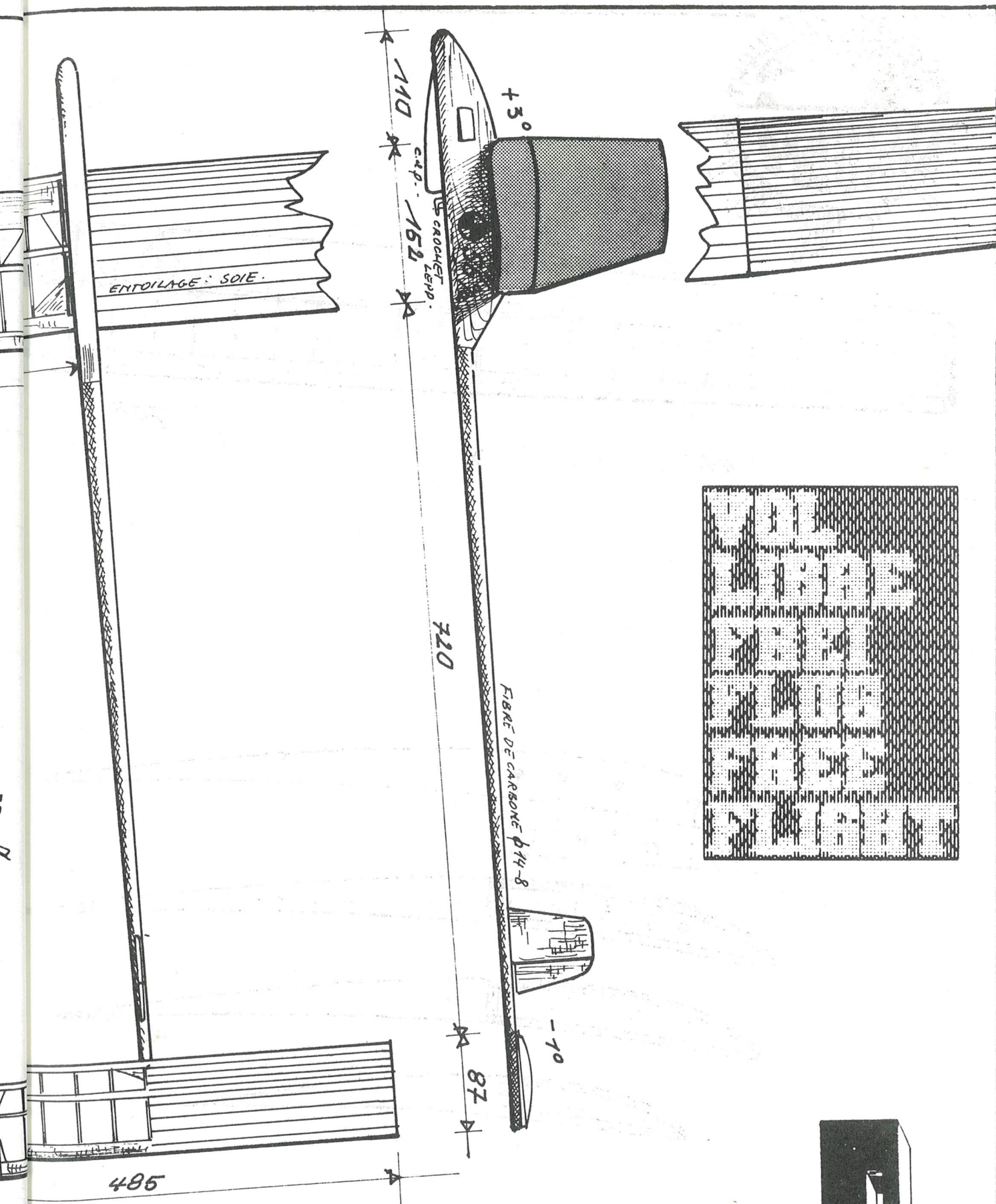
ECHELLE 1/5 - 1/1 VOL LIBRE

25



RAIMO KATAJANMÄKI
 CHAMPION DE FINLANDE 1982



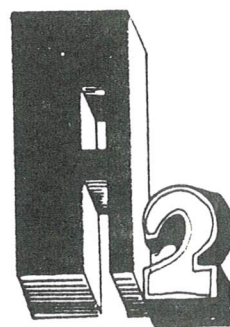


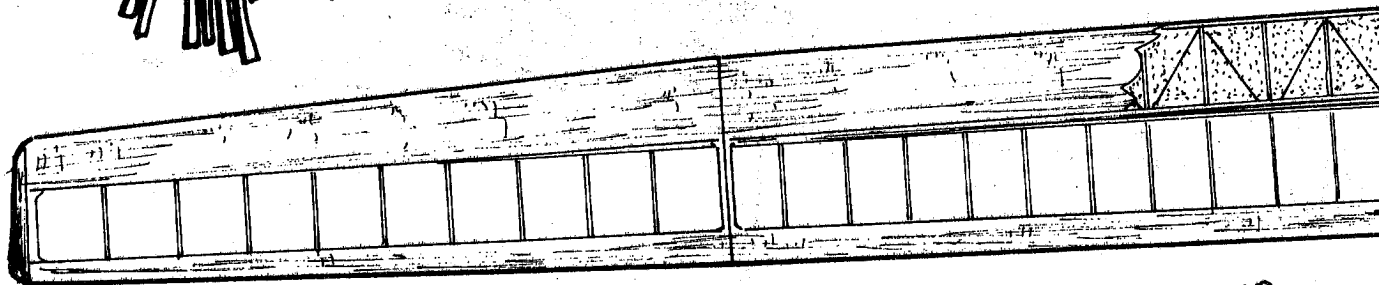
1/5 1/1-

A. SCHANDEL.-

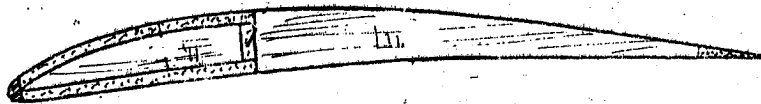
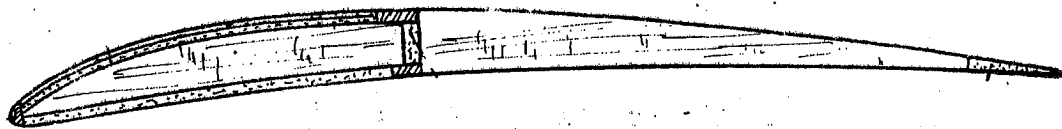
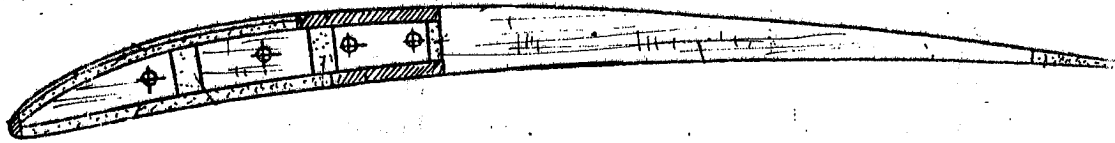
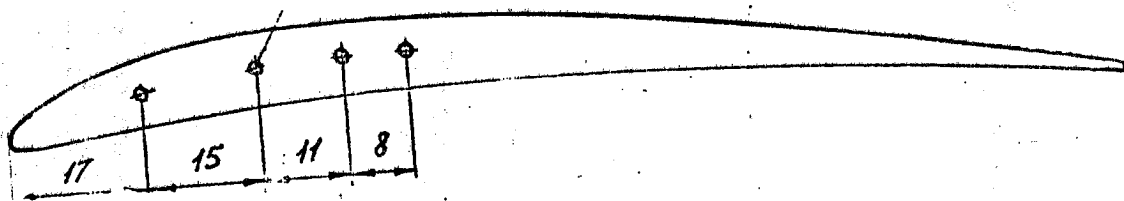
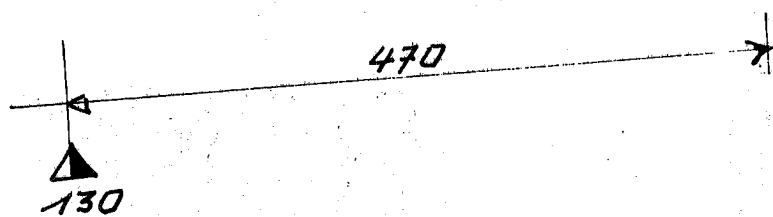
"VOL LIBRE"

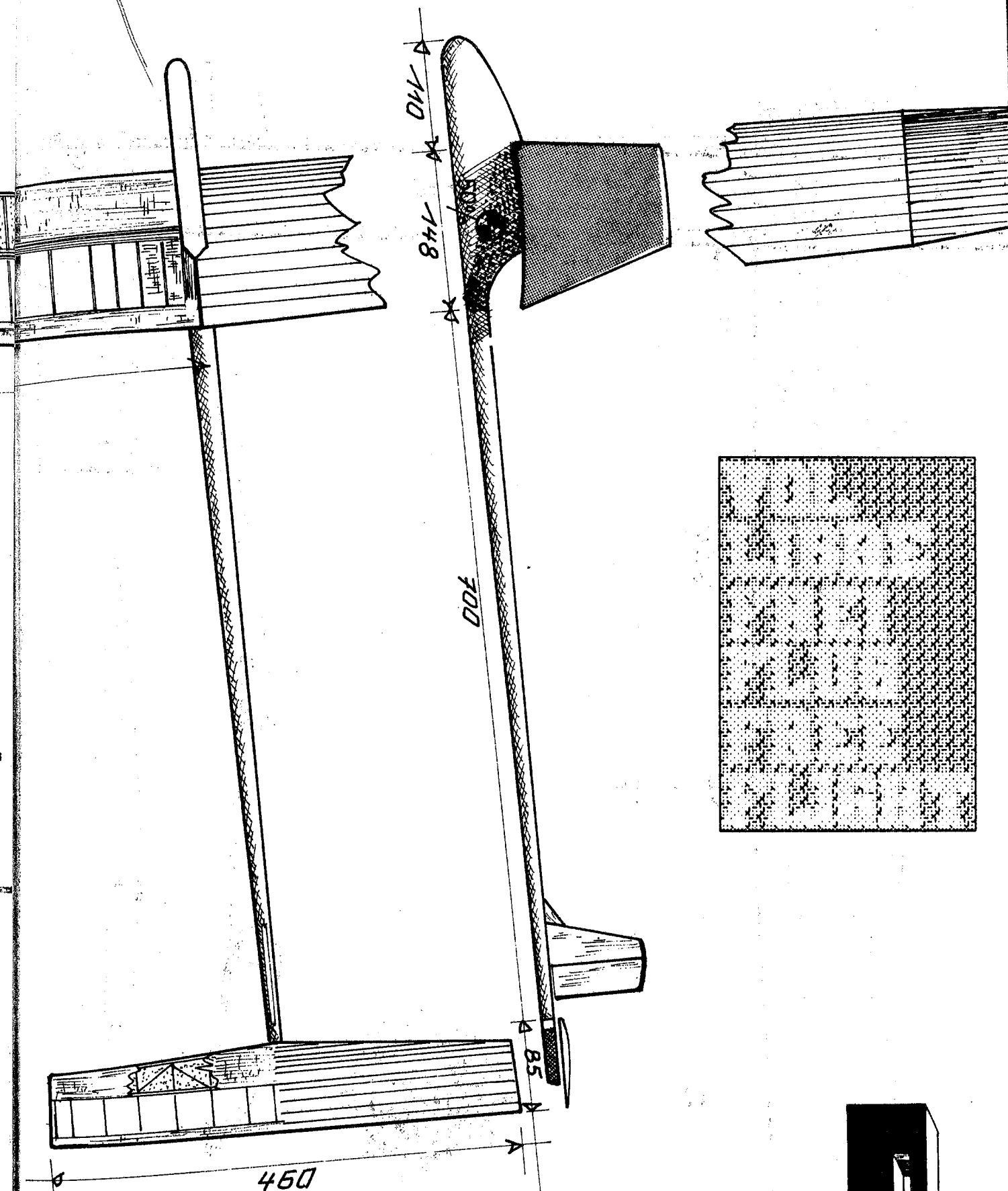
27





708

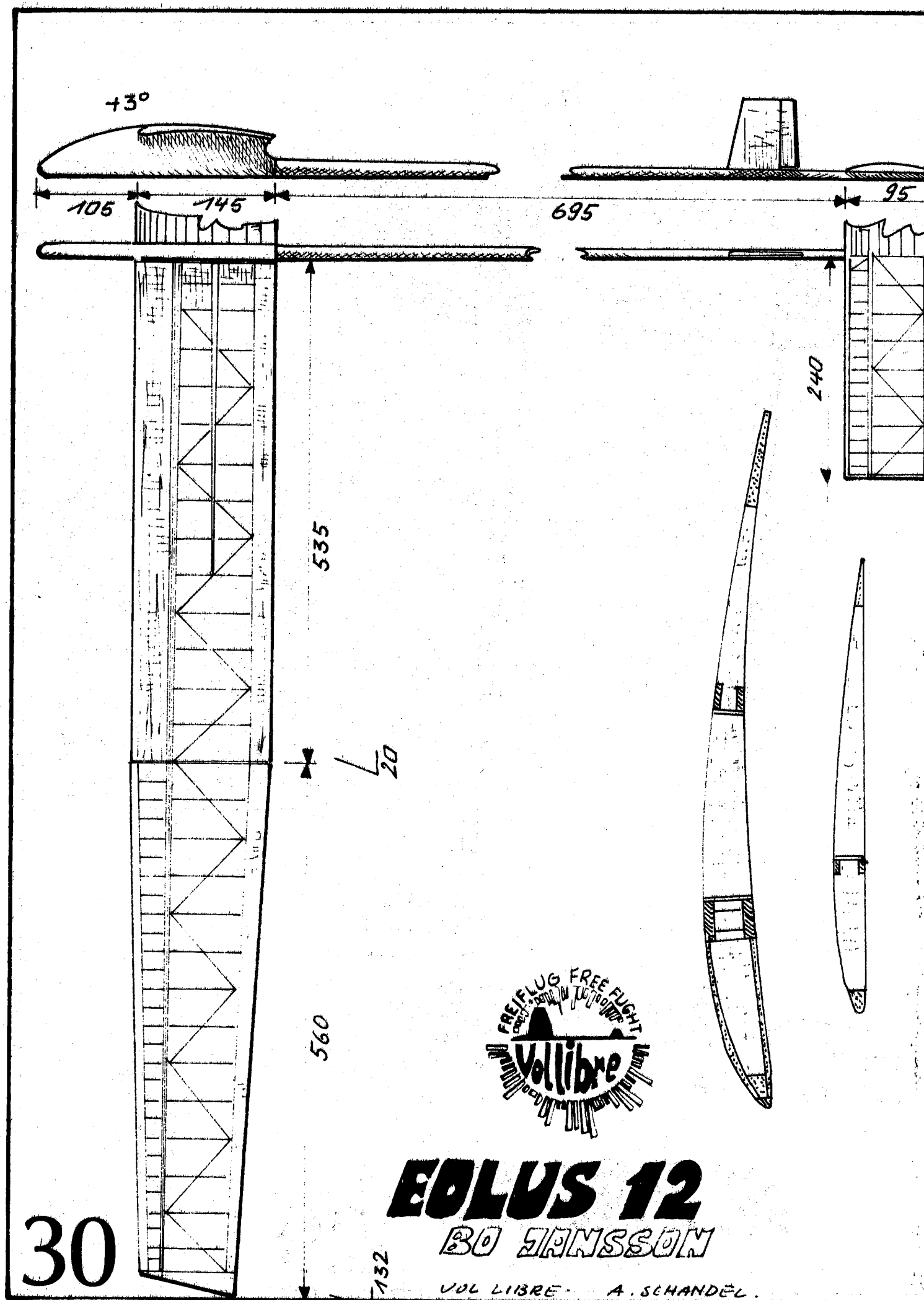


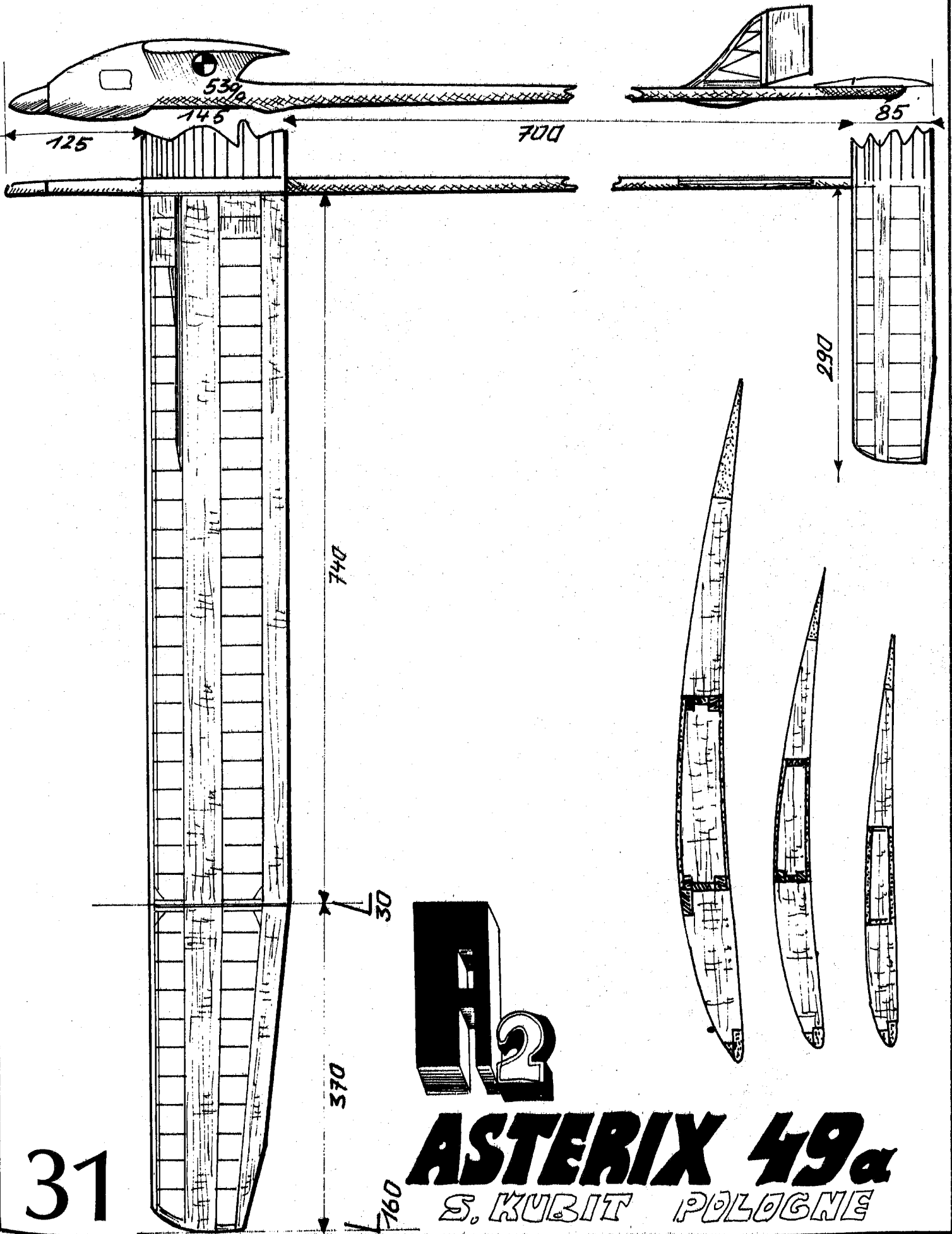


G. ORLOV
U.R.S.S.

29

A2





A2

ASTERIX 49a

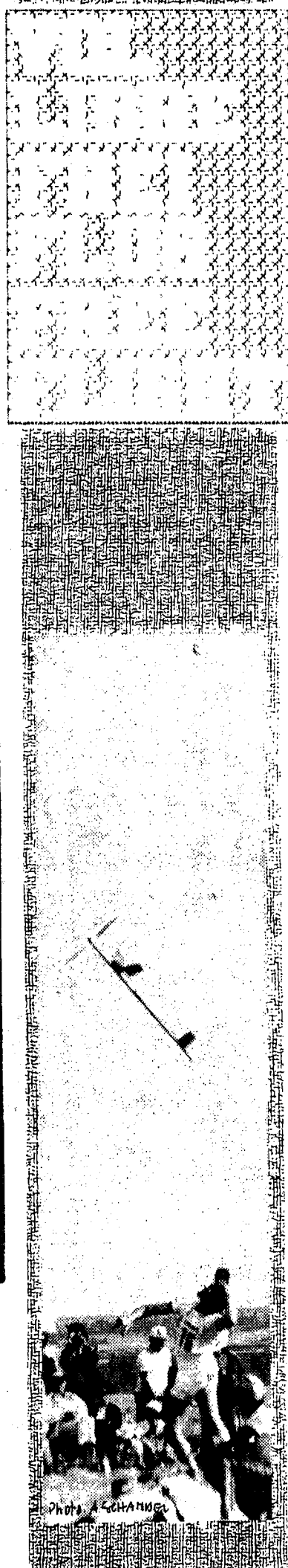
S. KUBIT POLOGNE



32

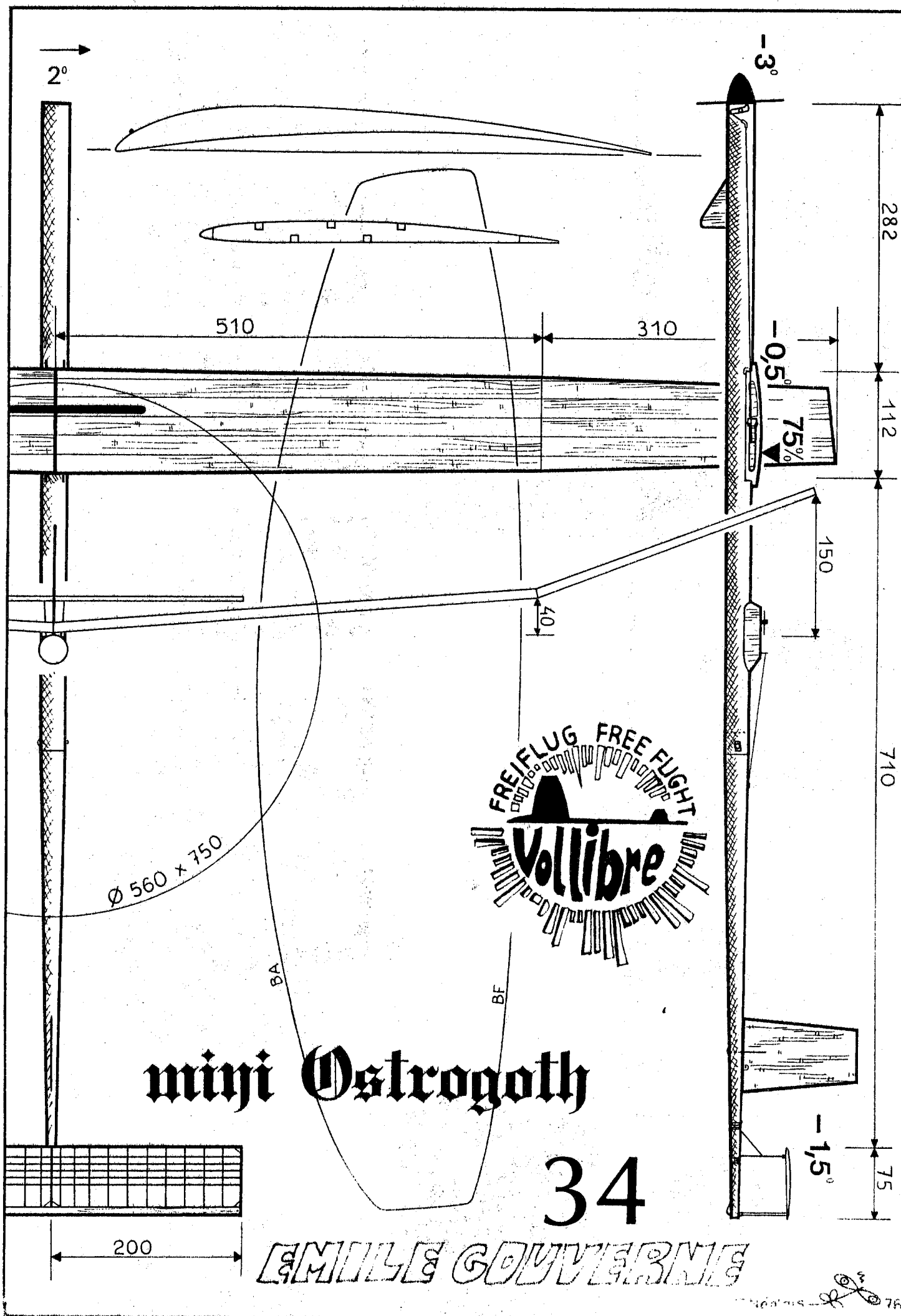


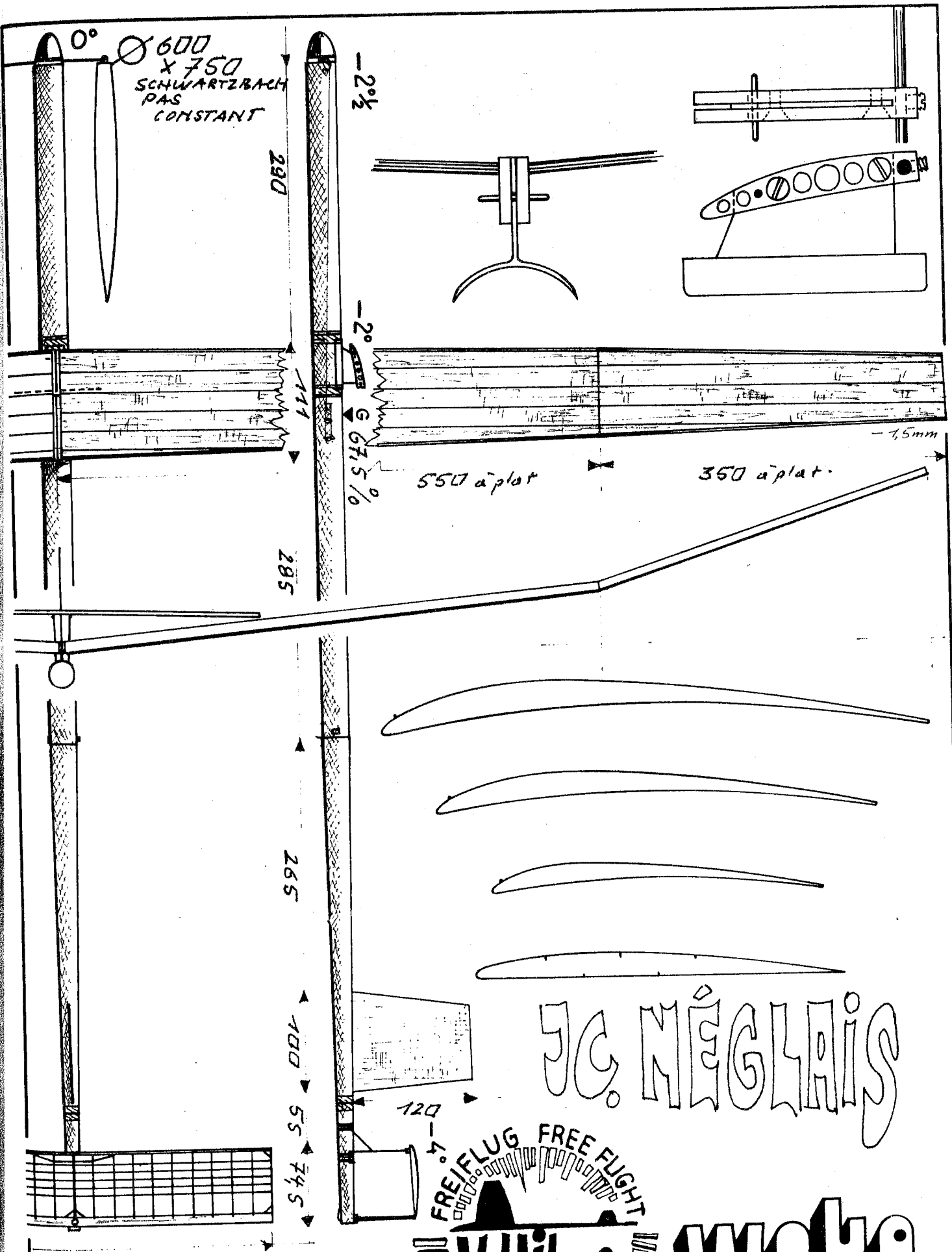
VOLLIBRE



Wake
Wake
Wake
Wake
Wake
W



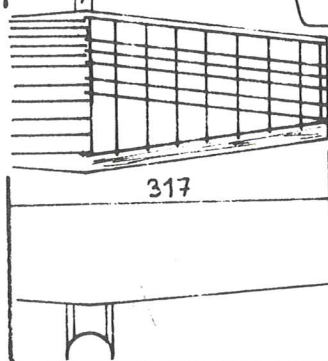
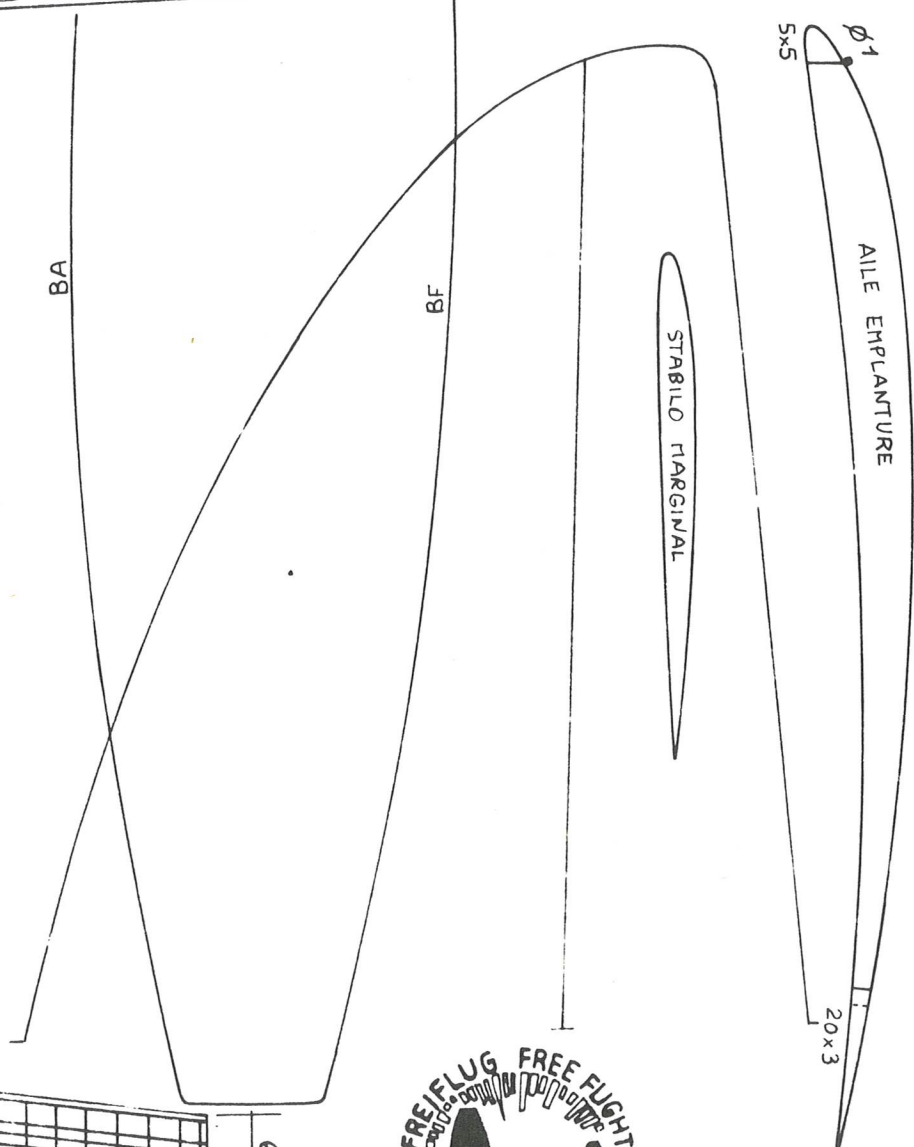
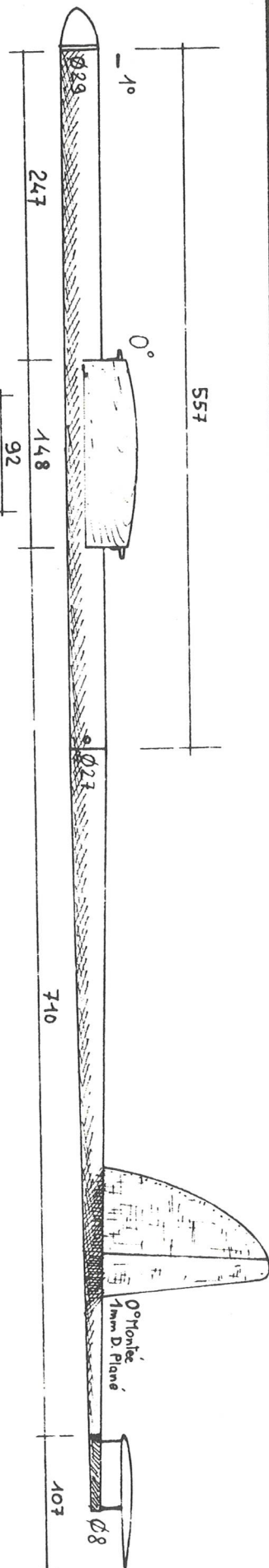
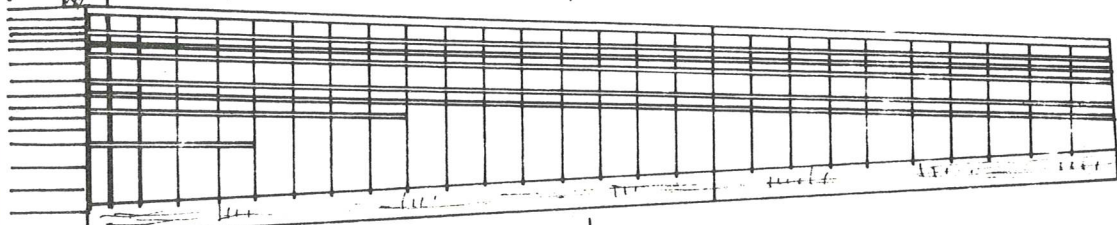
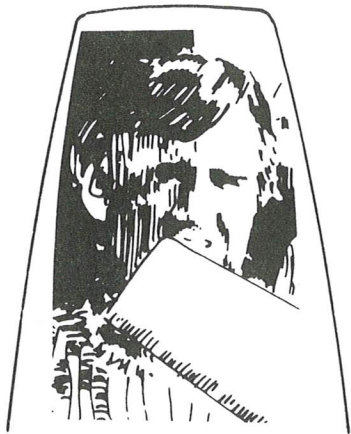




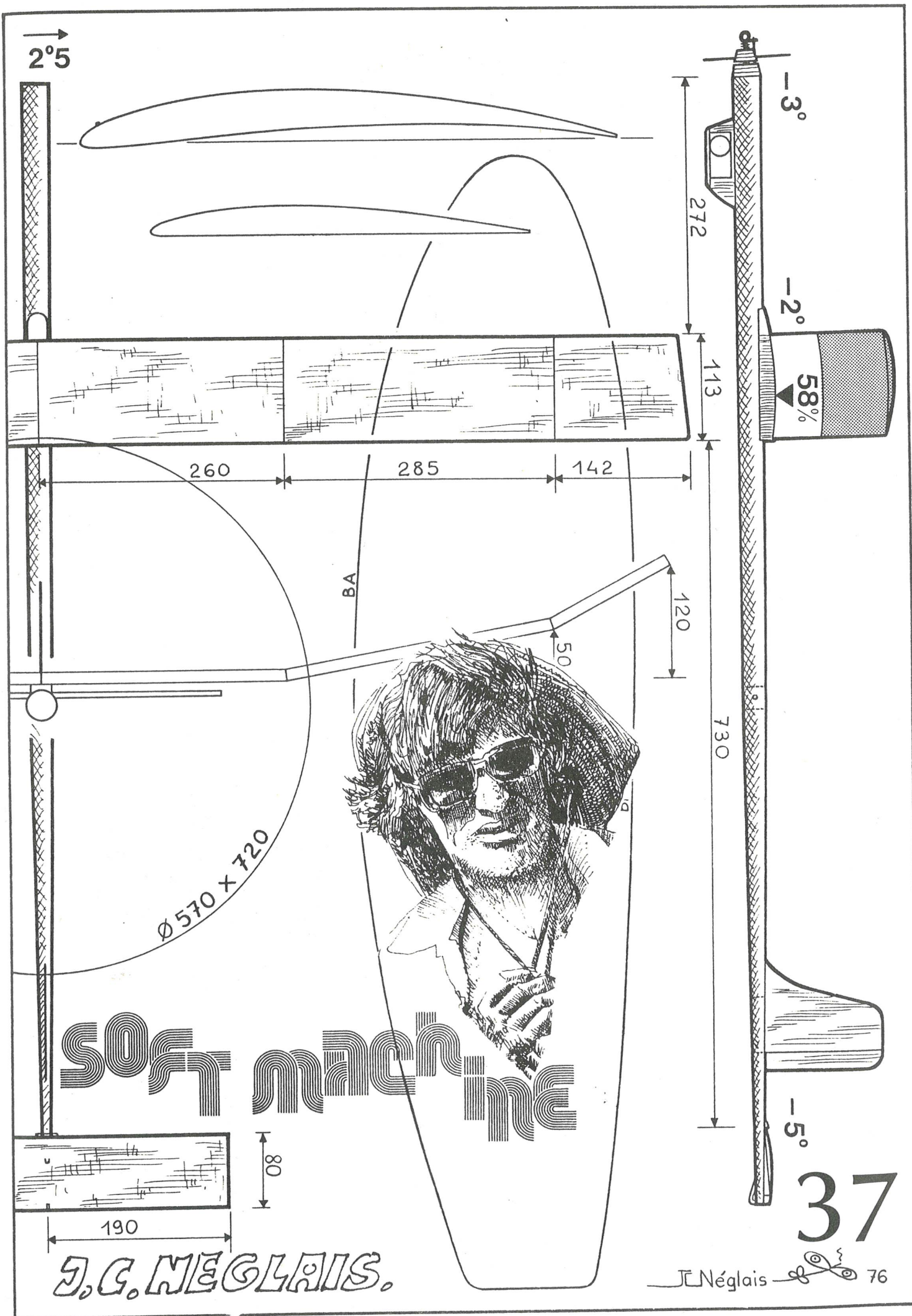
35

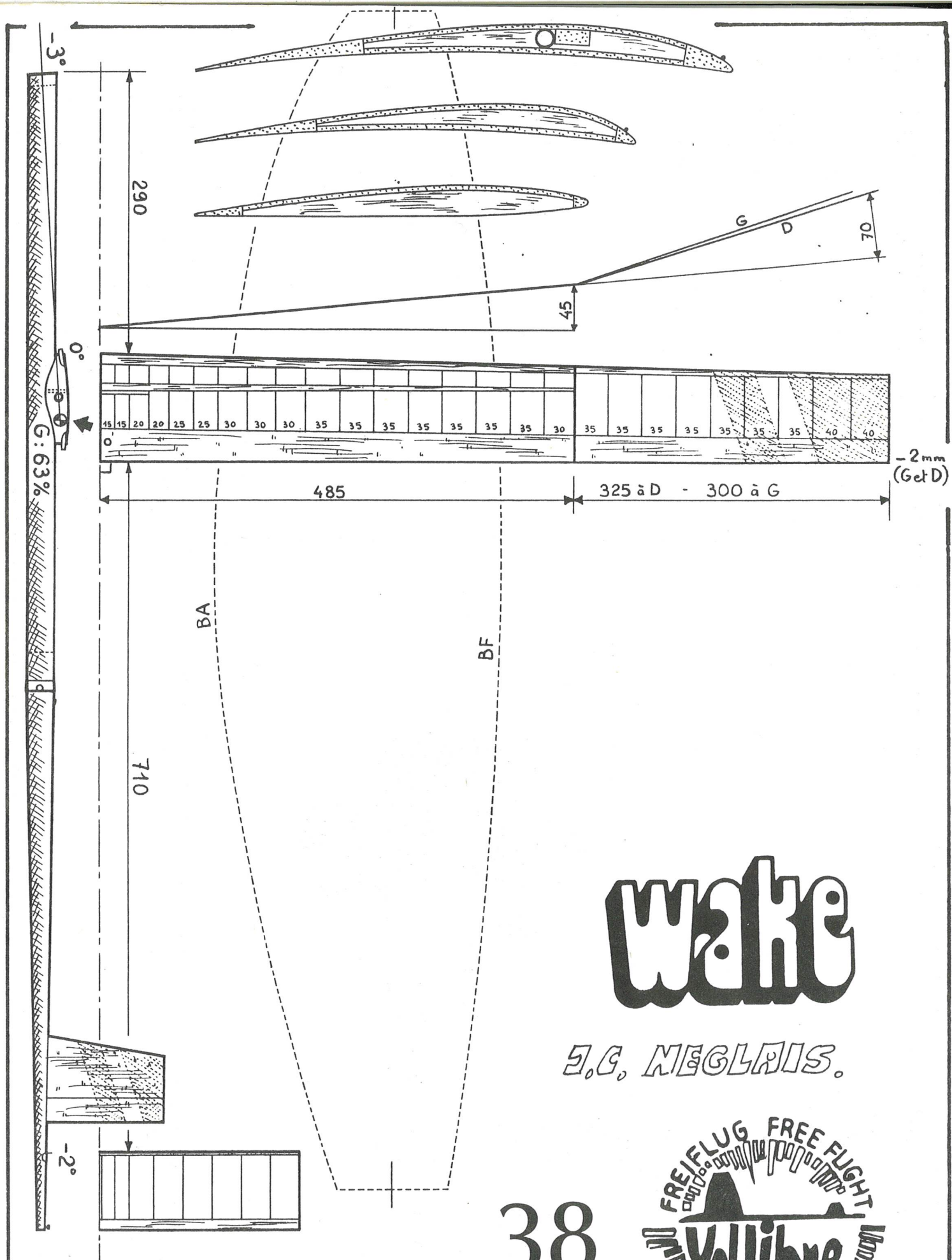
wake

A. Koppitz



36





Wake

S.C. NEGLAIS.

38



FLYING TEAPOT

"VOL LIBRE 2"

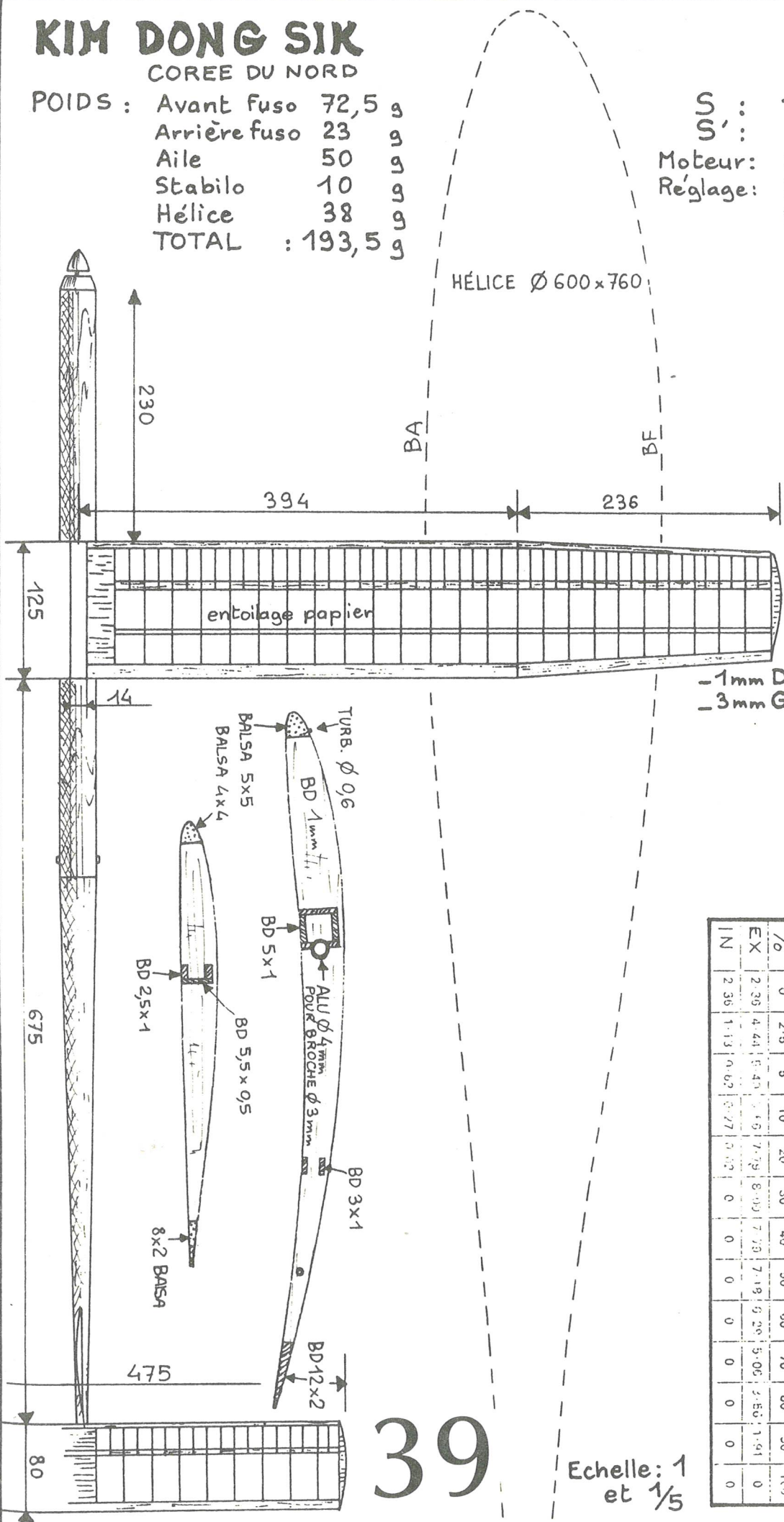
KIM DONG SIK

COREE DU NORD

POIDS : Avant fuso 72,5 g
 Arrière fuso 23 g
 Aile 50 g
 Stabilo 10 g
 Hélice 38 g
 TOTAL : 193,5 g

S : 15,15 dm² à plat
 S' : 3,8 dm²

Moteur : 22 brins de 4x1mm
 Réglage : D-D, volet commandé par minuterie



%	0	1-25	2-5	5	7-5	10	15	20	30	40	50	60	70	80	90	95	100
EX	1-25	2-45	3-15	4-3	5-2	5-9	7-2	8-1	9-2	9-45	10-15	8-45	7-15	5-2	2-8	1-25	0
IN	1-25	0-2	0-05	0	0-05	0-25	1-0-75	1-35	2-0-75	3-2	3-8	4-05	3-8	3-0	1-7	0-5	0

%	0	2-5	5	10	20	30	40	50	60	70	80	90	100
EX	2-35	4-44	5-43	6-5	7-72	8-09	7-73	7-18	6-29	5-06	3-56	1-91	0
IN	2-35	1-13	0-62	0-27	0-02	0	0	0	0	0	0	0	0

"Clark Y" 8%

JENéglais

Göttingen 409

39

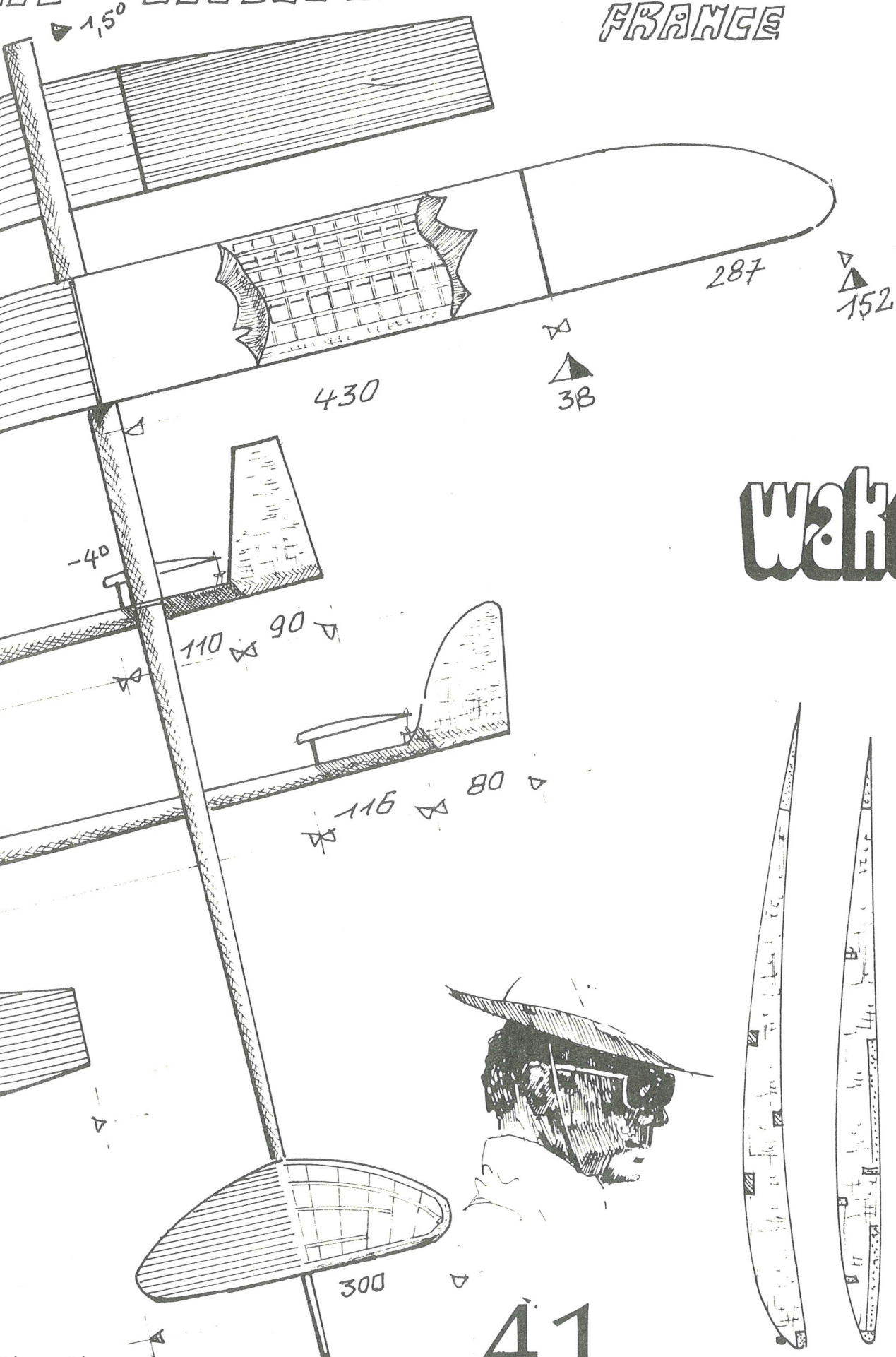
Echelle : 1 et 1/5



ETHELLE

IN WANTZENRIETHER

FRANCE



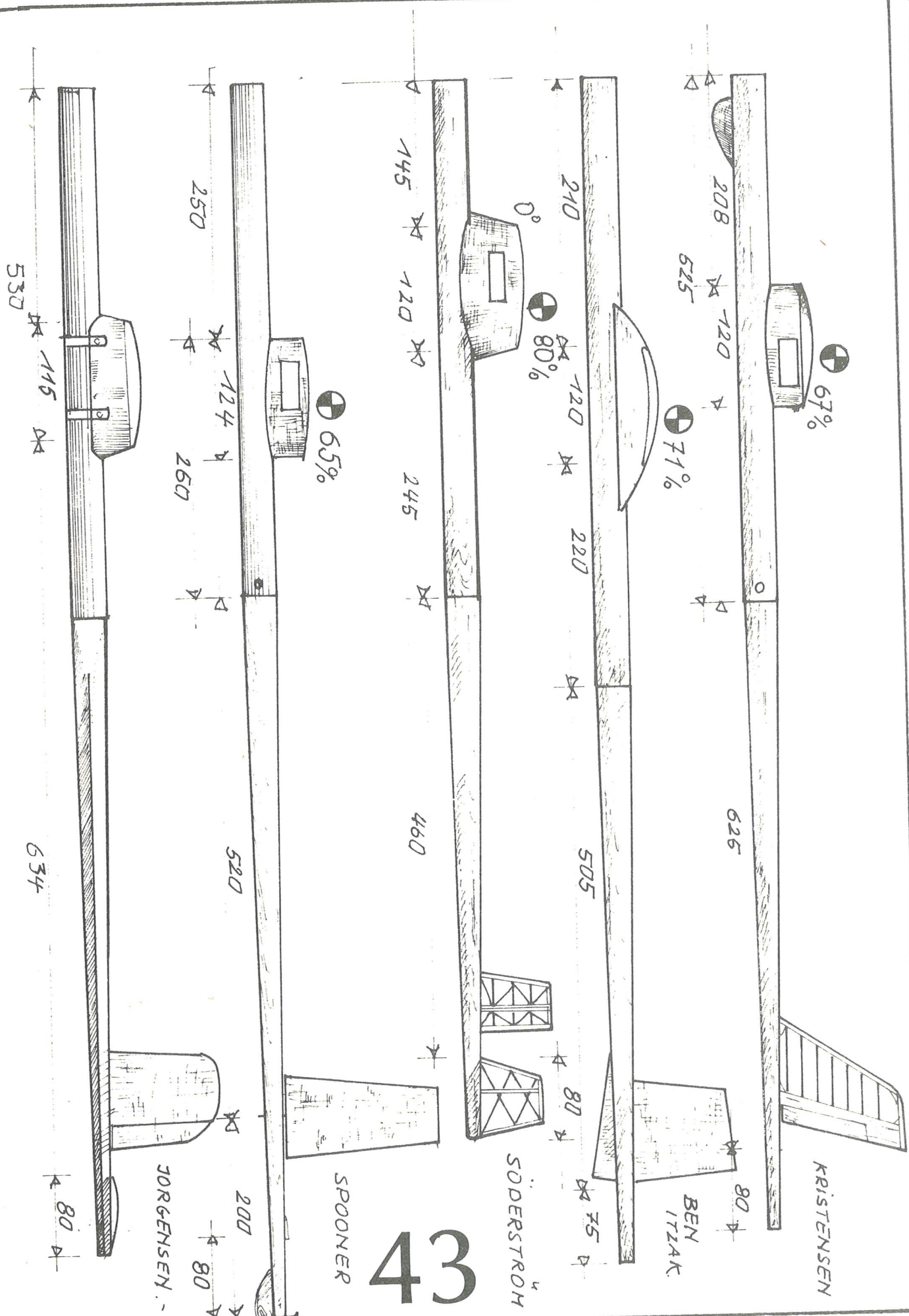
wake

1/5 - 1/1. A. SCHANDEL.

41

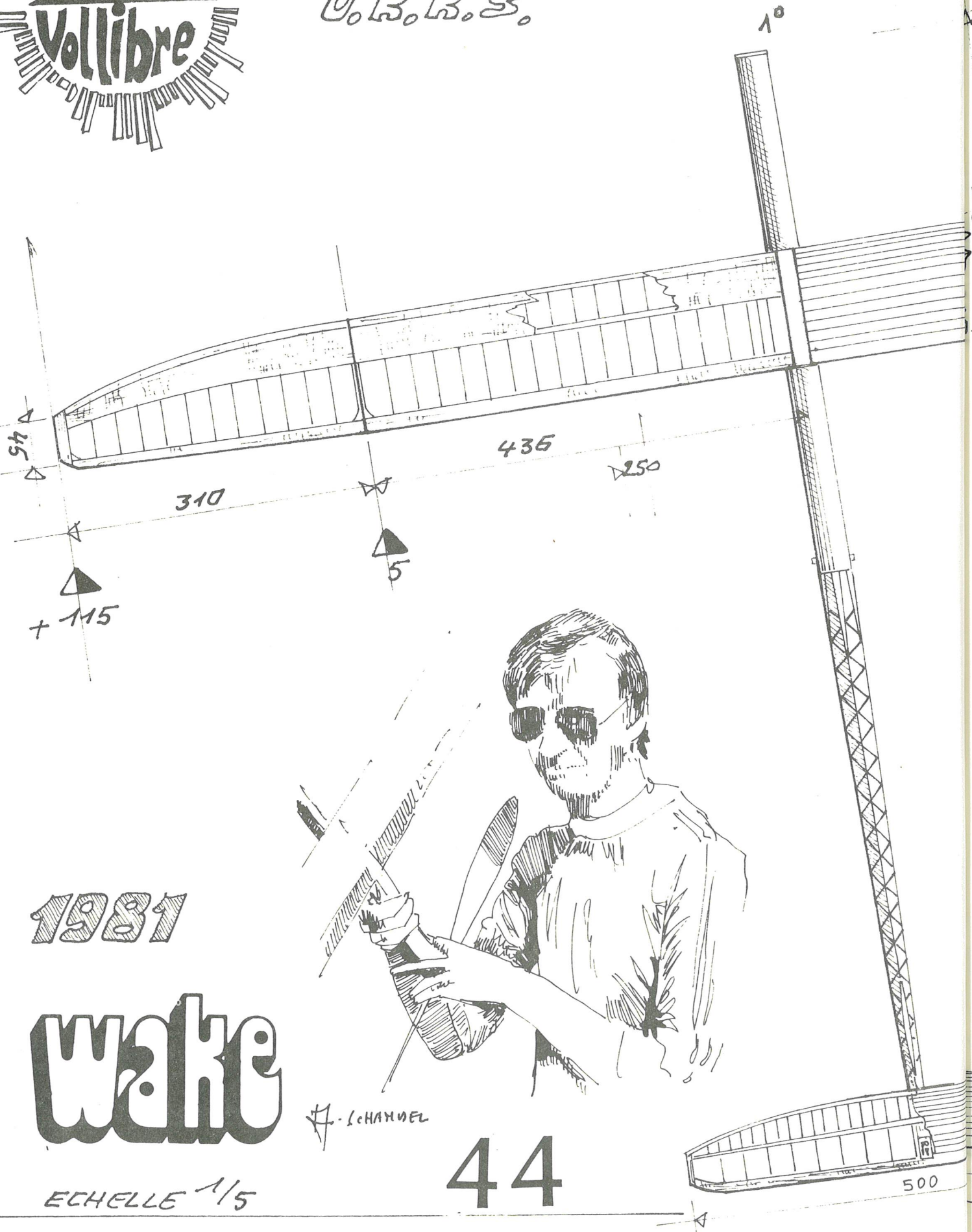
VOL LIBRE

VOLVO





S. STEFANTSCH
U.B.R.S.



1981

wake

ECHELLE 1/5

H. SCHMIDT

44

K

DIAMETRE 600
PAS: 765

DDZ

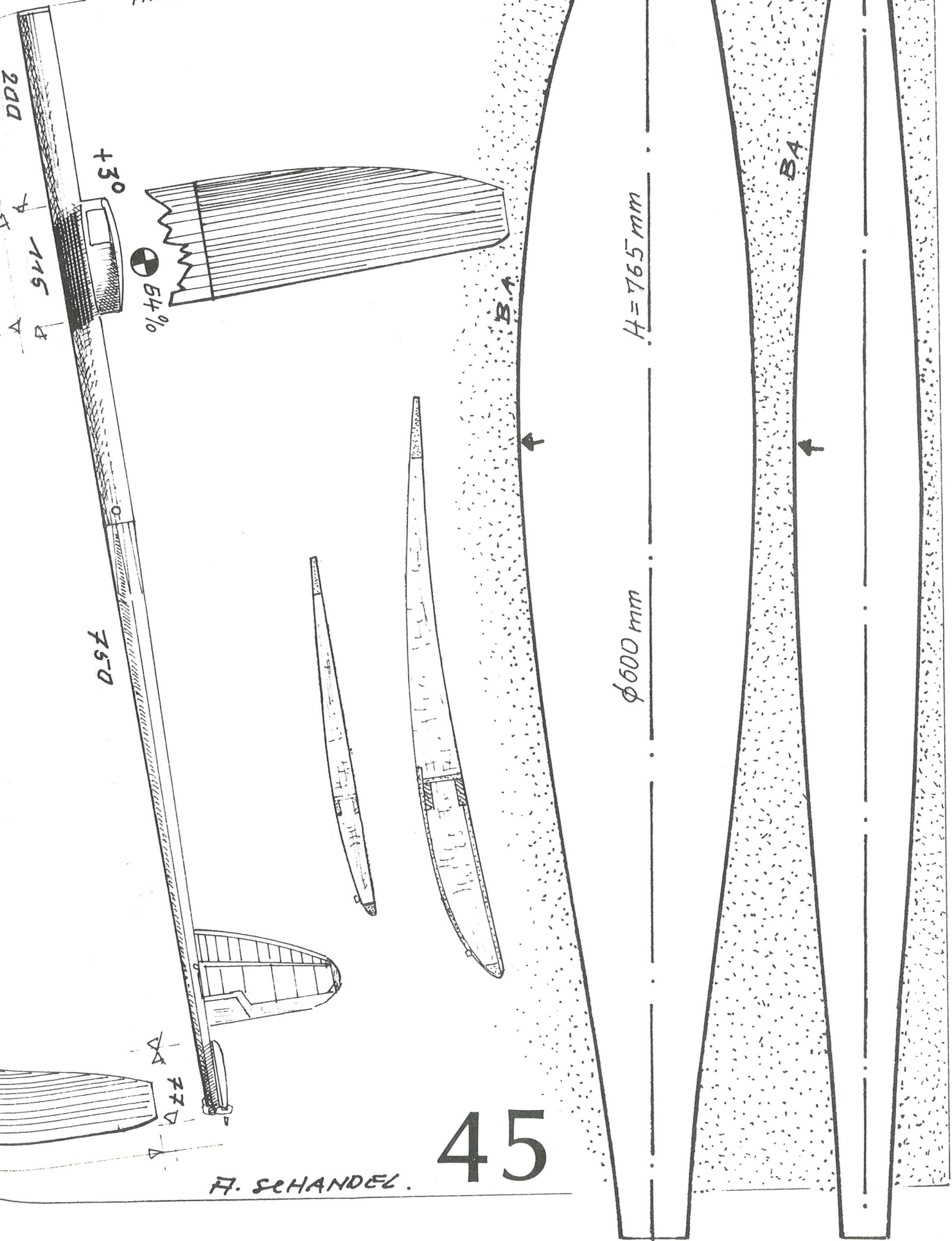
+30

64%

750

45

H. SCHANDEL.



Wake

0.5°

100

130

0°

2°

36

405

265

10

+120

650

90

-3°

440

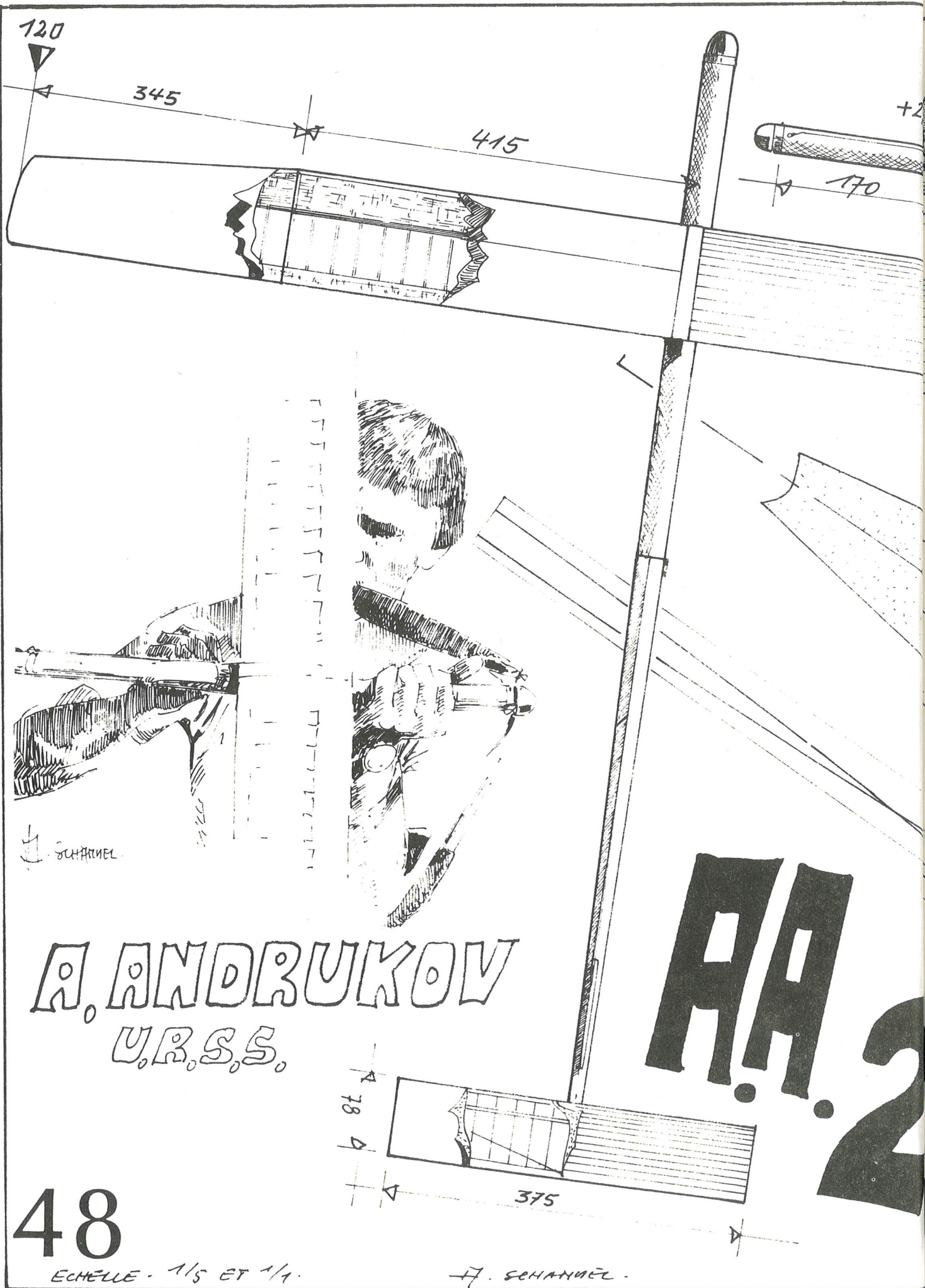
Vollibre

BJÖRN SÖDERSTRÖM

46

F. SCHANDEL - ECHELLE 1/5 1/5 - "VOLLIBRE"

7. SCHANDEL - ECHELLE 1/5 1/5 - "VOL LIBRE"



120

345

415

170

+2

A. ANDRUKOV
U.R.S.S.

AA.2

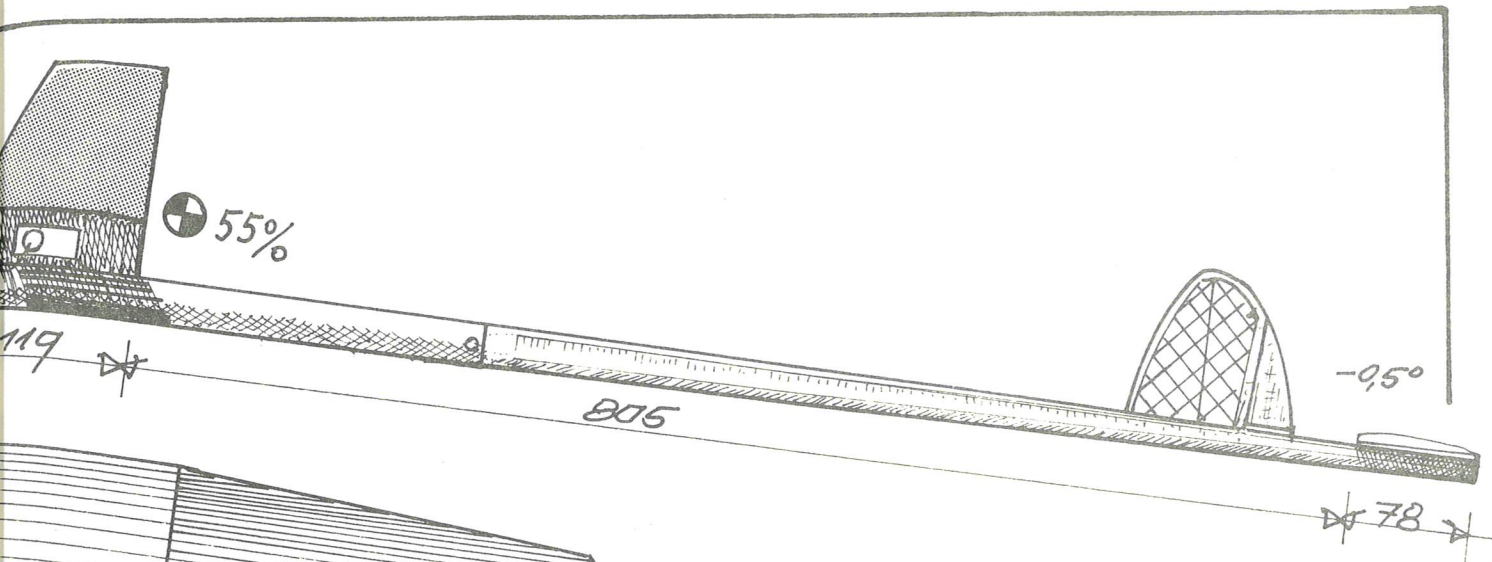
48

ECHELLE - 1/5 ET 1/4.

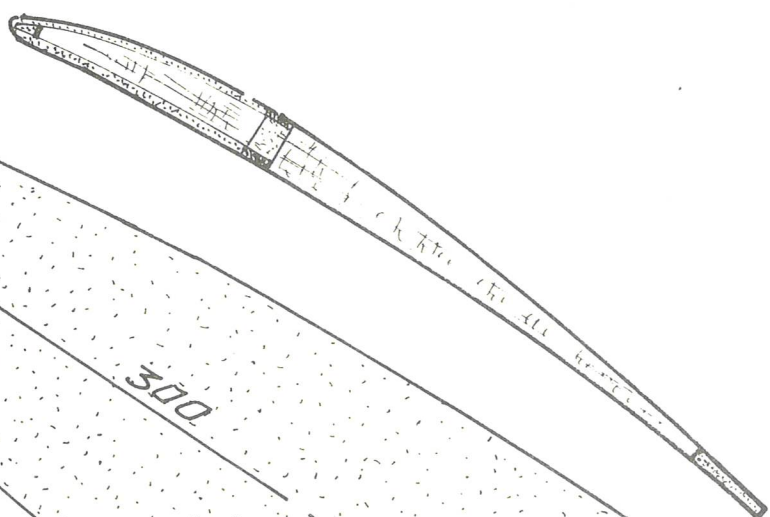
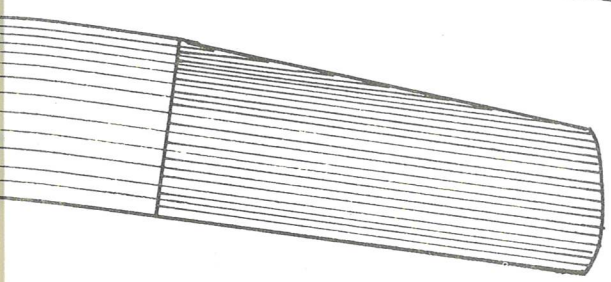
H. SCHANNÉL.

81

375



wake



7

"VOL LIBRE"

49

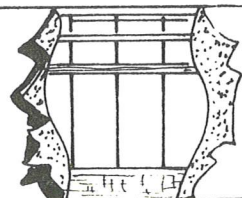
VOL LIBRE.

ECHELLE 1/5 - 1/1

A. SCHANDL.

Wake

V. KUBES



Ø 32

Ø 40

Ø 47

Ø 10

+ 115

250

125

⊕ 65%

645

130

60

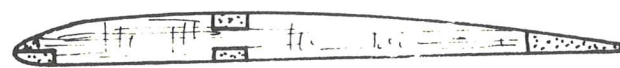
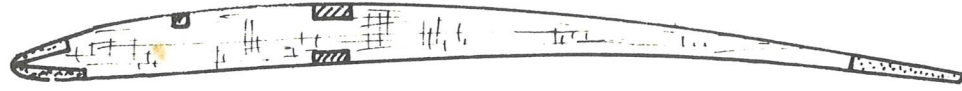
0°

80

Ø 450
15

V. KUBES
CSSR

50



HELICE -
GLAUERT

230

100

550

25

356

110

TUBE DURAL.

CONE Balsa + PAPIER -

790

80



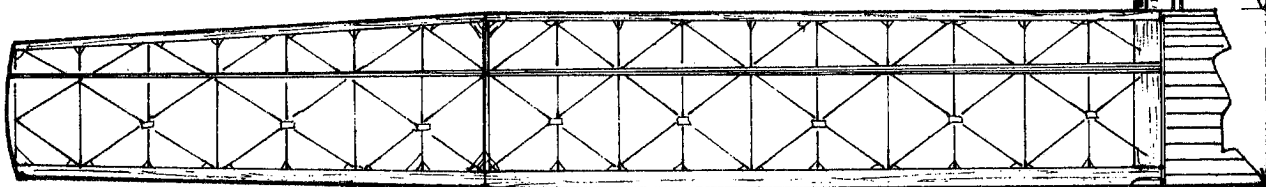
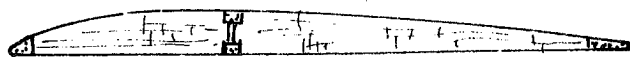
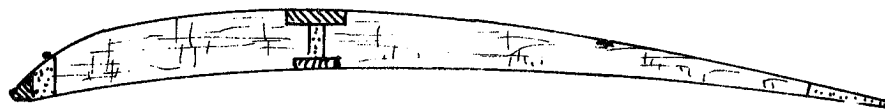
G. CALLEGARI
W2

ENTOILAGE MYLAR.

350

51

H. SCHANDEL - ECHELLE 1/5 ET 1/4 "VOLLIBRE"



$\phi 595$ $\nabla 46'$

228

115

725

80

+120' $\phi 69,5\%$

FUSELAGE + REULAK + CARBONE + BMS4 + TISSOT F.O.U.

+74' montage (3 sec)
- 57' montage après 3 sec

320

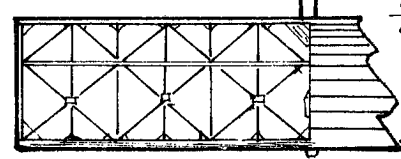
422

+110

NERVURE
D'OR

1983

ANSELMO ZERI



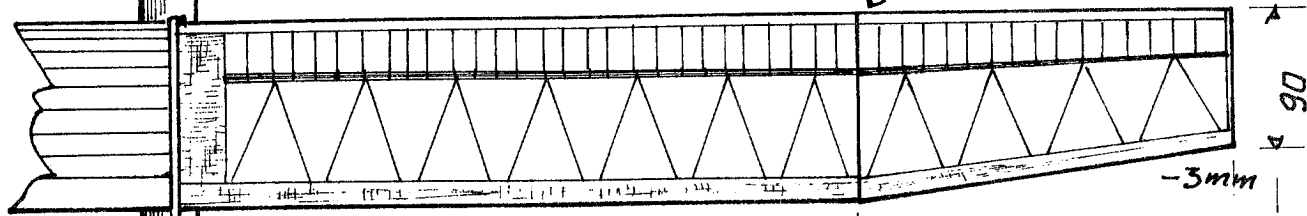
375

52

ECHELLE 1/5 - 1/1



20
DIAMETRE 610
PAS 750



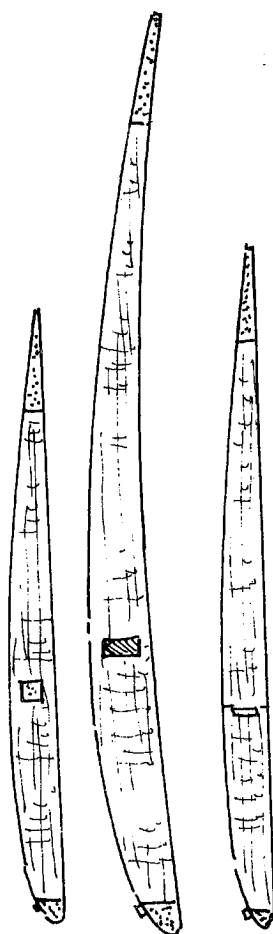
450

245

15

95

NERVURE D'OR
1982



425

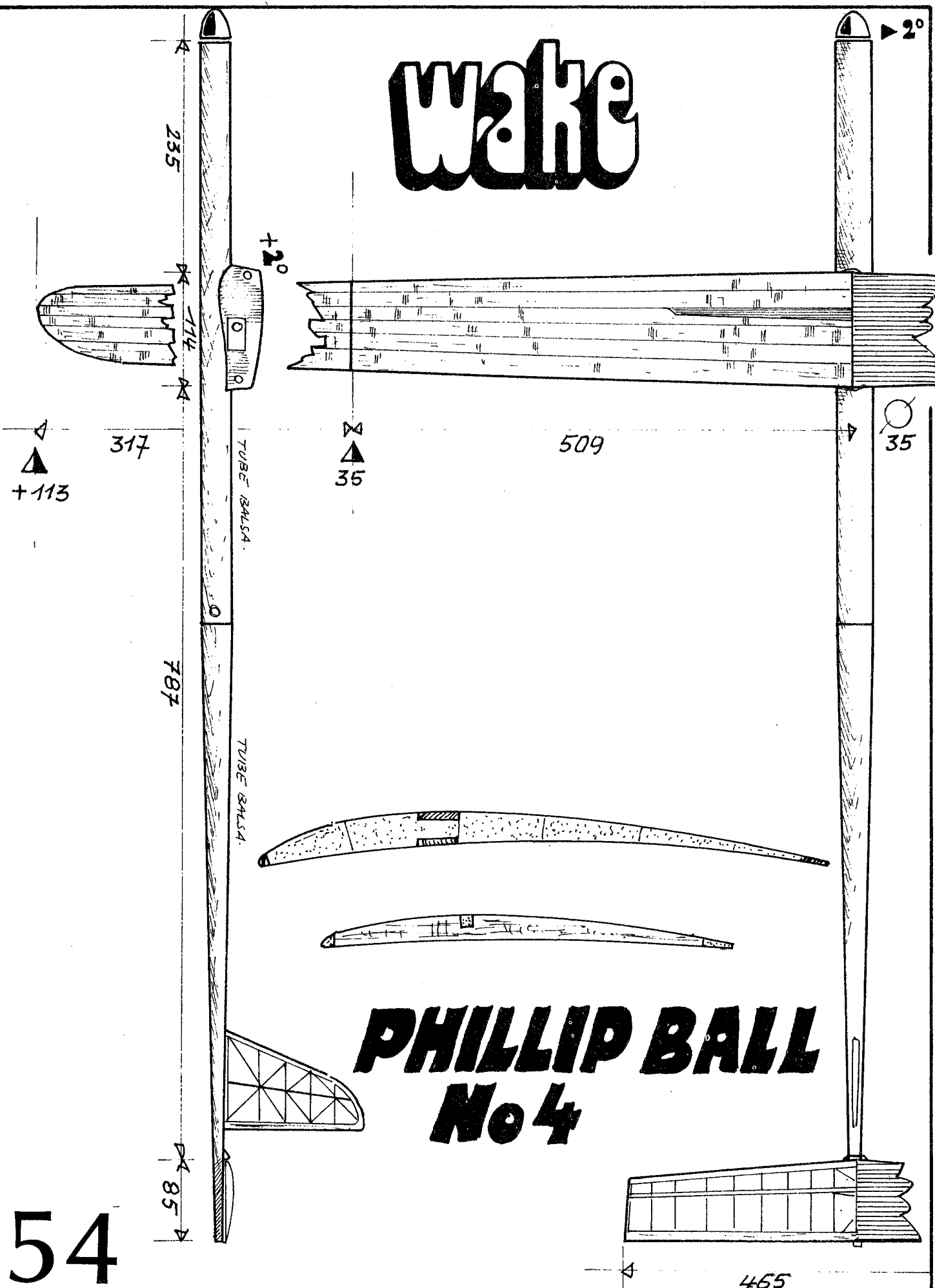
53

Wake

ALAIN
LANDEAU

A. SCHANDEL - "VOL LIBRE"

wake

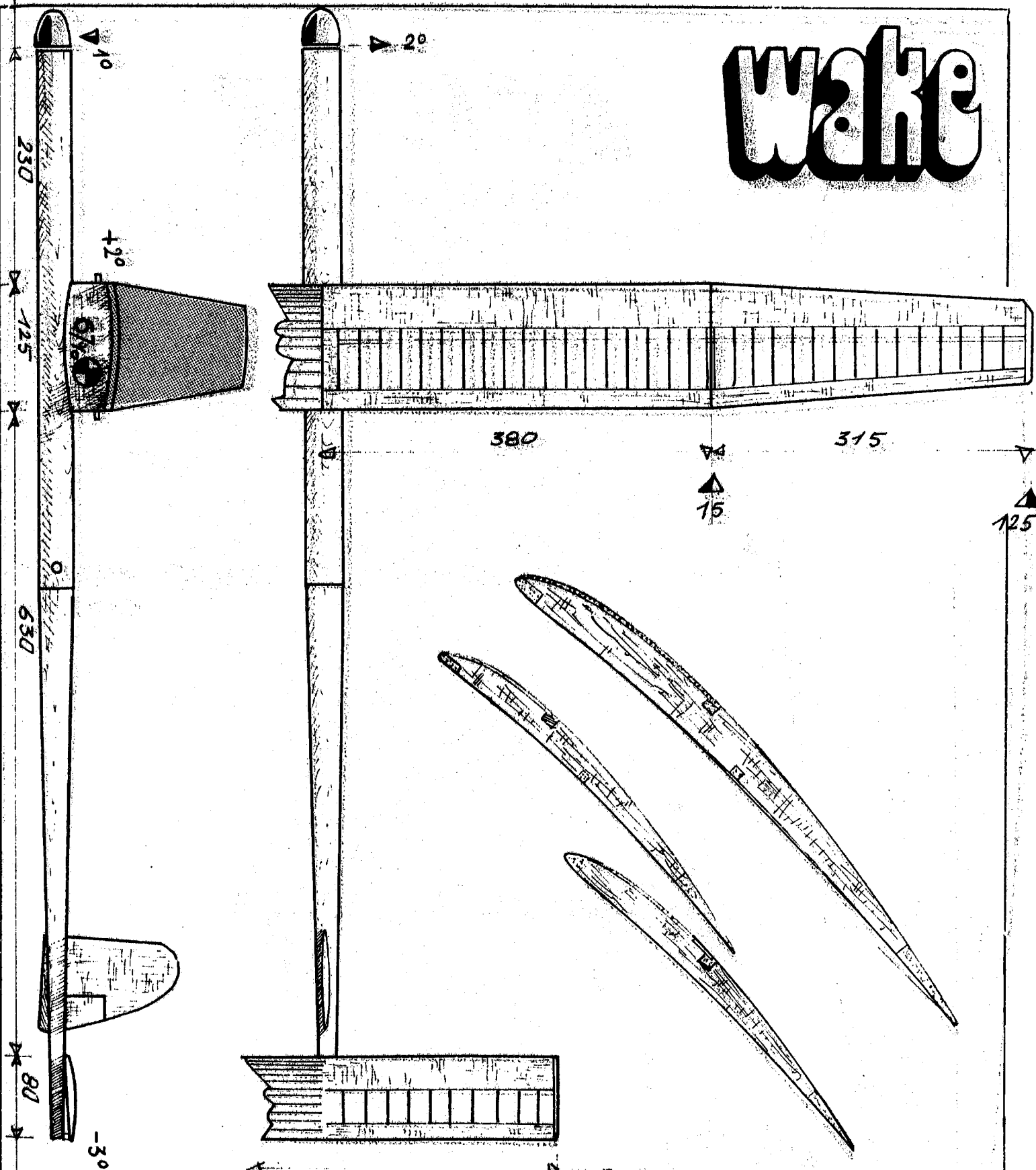


54

A. SCHANDEL - ECHELLE 1/5 - ET 1/4

"VOL LIBRE"

Wake



55

HANS ZACHHÄLMEL

ECHELLE 1/5 ET 1/4 - A. SCHÄNDEL - VOLLIBRE.

ESPADA

LOTHAR DÖRING



FIBRE
DE CARBONE

330

541

50

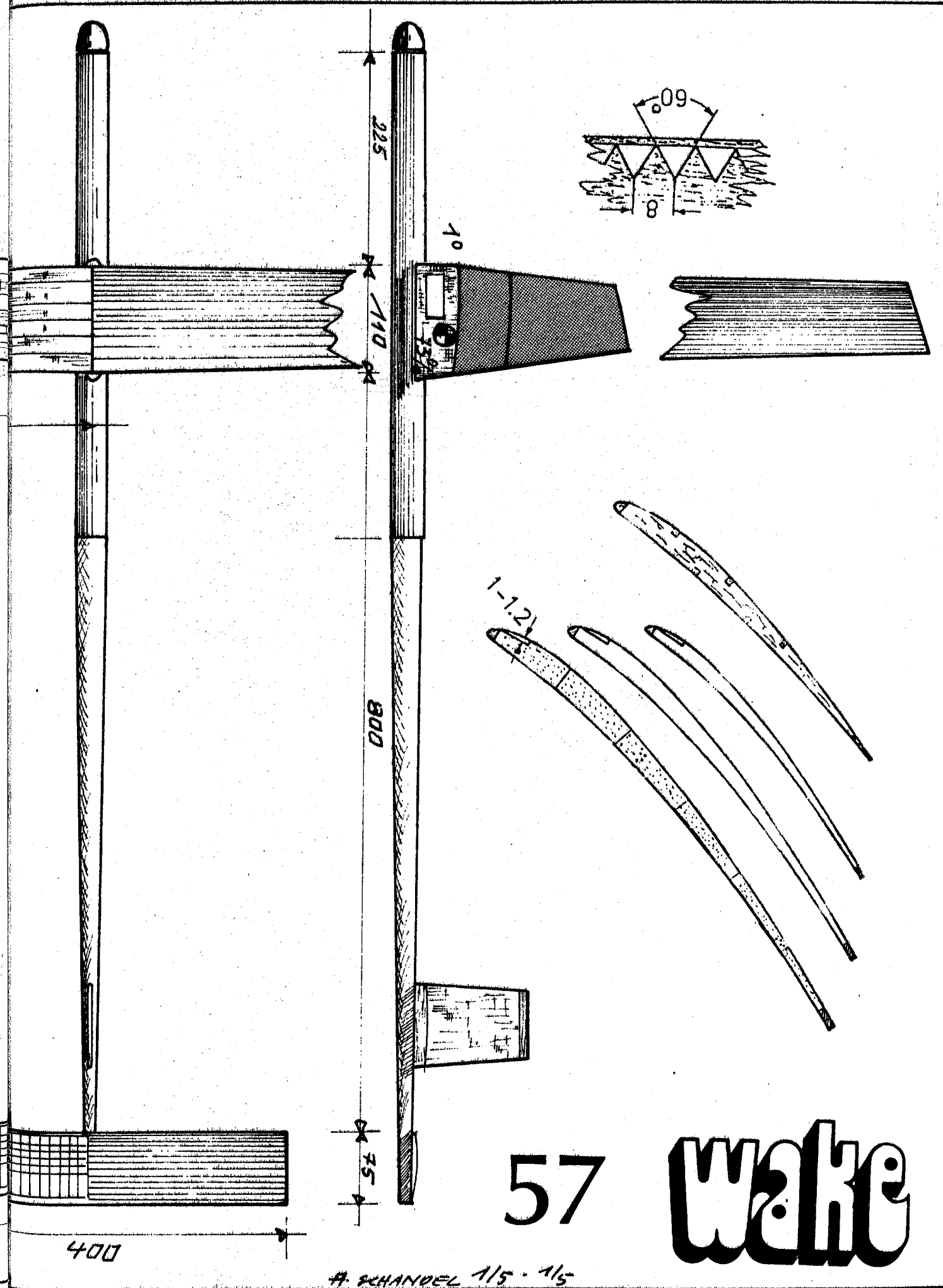
+120

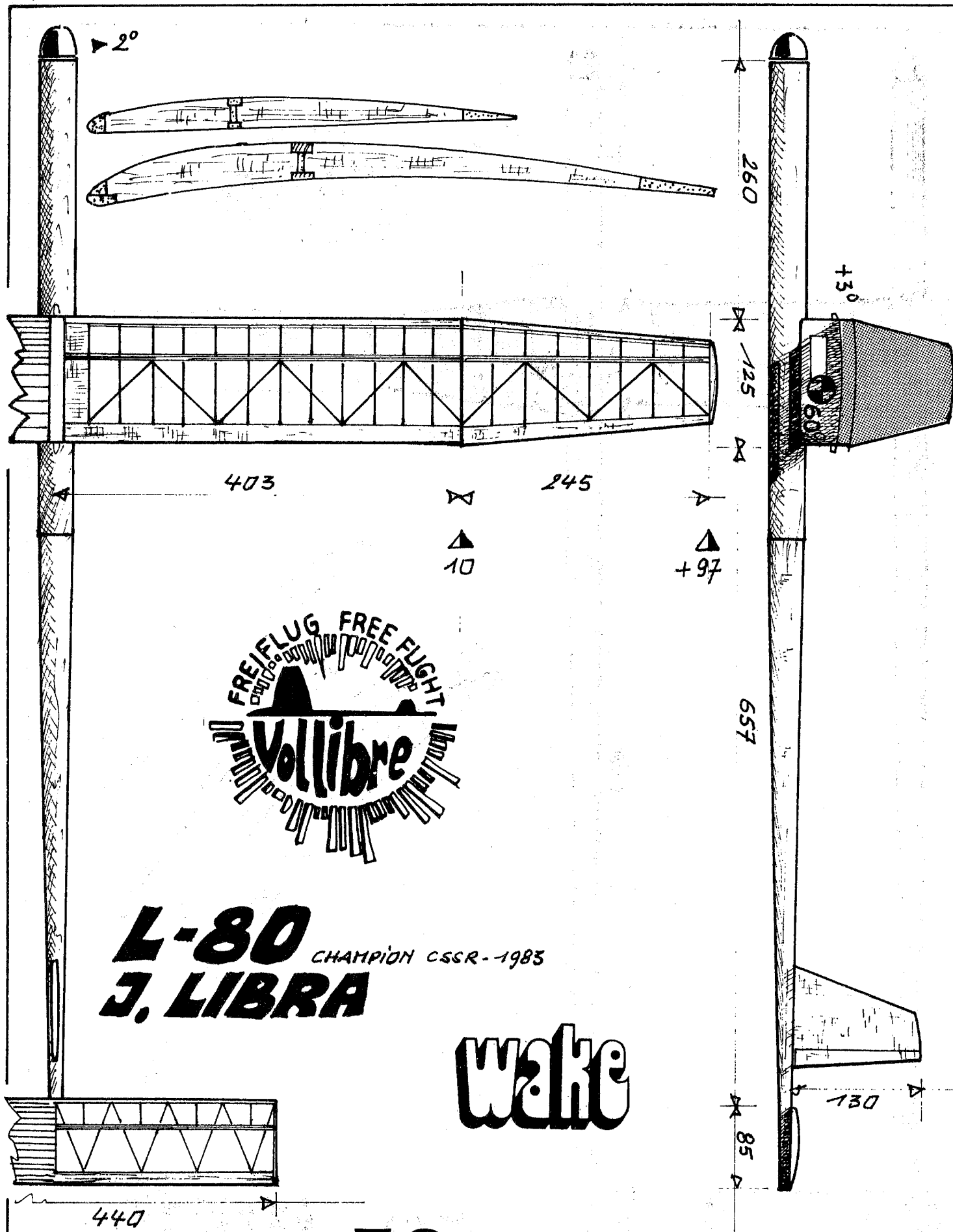
CHAMPION DU MONDE 1981
1983



56







58

A. Koppitz
"Zanonia"

wake

braqué à G. au moteur, à D. plané

JENéglais

Echelle : $\frac{1}{5}$ et 1

59 93004

ECHELLE 115 ET 117

- 1 Recueil de plans 1984.
- 2 Quelques têtes bienconnues en A2.

F 1 A

- 4-5 A.H. 26 Arno HACKEN (NL)
- 6 Jan VAN BRAGT (NL)
- 7 "ETALON" C. ABADJEY (Bulg)
- 8 "JESSICA" Per GRUNNET (DK)
- 9 SL. 10 S.A. LARSEN (N)
- 10 "FROJAXE" Steffen JENSEN (DK)
- 12 Y. TSCHOPP (URSS)
- 14 "BIG MAX" Lee HINES (USA)
- 16 "LUBI 7" B. LESKÖSEK (GB)
- 17 "STARSHIP" G. MADELIN (E)
- 18 "GUIRRE 8" J. LUJAN (E)
- 19 LU CHENZHI (CHINE)
- 20-21 Fuselages actuels
- 22 "HS.83" H. SCHMIDT (D)
- 23 H. TAHKAPAA (FN)
- 24 "CHIHUAHUA 82" J. VALERY (F)
- 26 R. KATAJAMAKI (FN)
- 28 G. ORLOV (URSS)
- 30 "EOLUS 12" Bo JANSSON (S)
- 31 "ASRERIX 498" S. KUBIT (PL)

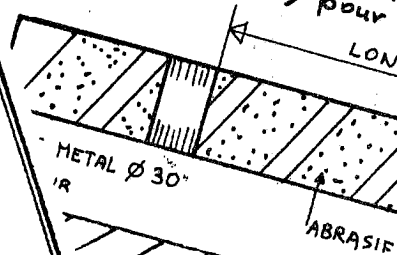
F 1 B

- 32-33 Quelques têtes bien connus en F 1 B.
- 33 "MINI OSTROGOTH" E. GOUVERNE (F)
- 35 "OSTROGOTH 81" J.C. NEGLAIS (F)
- 36 A. KOPPITZ
- 37 "SOFT MACHINE" J.C. NEGLAIS (F)
- 38 "FLTING TEAPOT" J.C. NEGLAIS (F)
- 39 KIM DONG SIK (N.COR)
- 40-41 "BULLTOP" et "SAMTOP"
- 42-43 Fuselages F 1 B.
- 44-45 STEFANTSCHUK (URSS)
- 46 B. SÖDERSTROM (S)
- 47 "TIDEN" Lars LINDEN (S)
- 48-49 "A.A. 27" A. ANDRJUKOV (URSS)
- 50 Y. KUBES (CSRR)
- 51 "W2" G. CALLEGARI (I)
- 52 "RARA AYIS" Anselmo ZERI (I)
- 53 "D'CHEVAL" Alain LANDEAU (F)
- 54 "N°4" Phil BALL (GB)
- 55 H. ZACHHAMEL (A)
- 56 "ESPADA" Lothar DÖRING (D)
- 58 "L-80" J. LIBRA (CSRR)
- 59 "ZANONIA" A. KOPPITZ (F)

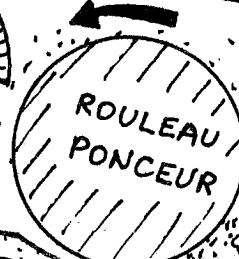
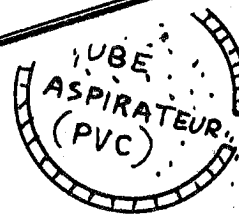
VOL LIBRE FREI FLUG FREE FLIGHT

LE PONÇAGE :

A l'A.C.E. nous l'avons trouvé excellent : un ponce au tour. Si vous ne disposez pas de perceuse, (même avec l'URSS) il faut pouvoir fixer un tube sur ce tube, est collé une bande pour permettre l'évacuation du catch à chaque bout, pour



Pour limiter la pression, au plus près du tube. On intercepte à l'EUR



E DE L'O
NQU ET REALIS
S : 30

- Les p
à l'aut
- d'au
- d'au
- il n
- la
- 1'

Quand vous
d'Hiver ident
Jumeaux. Bon
Un célèbre lin
tré formel : on
Dont acte l'Air
les modèles et

VOL LIBRE

BULLETIN DE LIAISON

André SCHANDEL

15 CHEMIN DE BEULEMUEDETH FRANCE
STRASBOURG ROBERTSAU 67000
Tel : 88 31 30 25 C.C.P. : 1190 08 5 Strasbourg F.

F I C

- 60-61 Sommaire
- 60-62 Quelques grands en F I C
- 64 "SISYPHUS" D. MACZKO (H)
- 65 "J.S.26" S. JOVIN (YU)
- 66-67 "SR 104-112 A" S. REDA (D)
- 68-69 "MB 38" MOSINSKI (URSS)
- 70-71 N. NAKONETSCHNY (URSS)
- 73-74 Fuselages actuels F I C.
- 74-75 "1520-A" S. LUSTRATI (I)
- 76-77 CL. HAUGHT (USA)
- 78 "AA 26" W. NUTINI (Bresil)
- 79 "VP 82" Václav PATEK (CSSR)
- 80 "GAMBRINUS" R. TRUPPE (A)
- 81 "GEFI 35" G. FISCHER (RDA)
- 82 "SERIES 2" S. SCREEN (GB)
- 83 L'envol en F I C.
- 84 L'Espada de L. Döring et une série de A.L. de A. Lepp.

POUPET

67

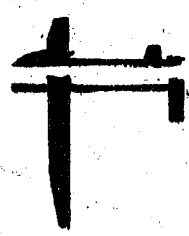
Atte au fer pour
brous et rac.
l'aspirateur

SCHANDEL

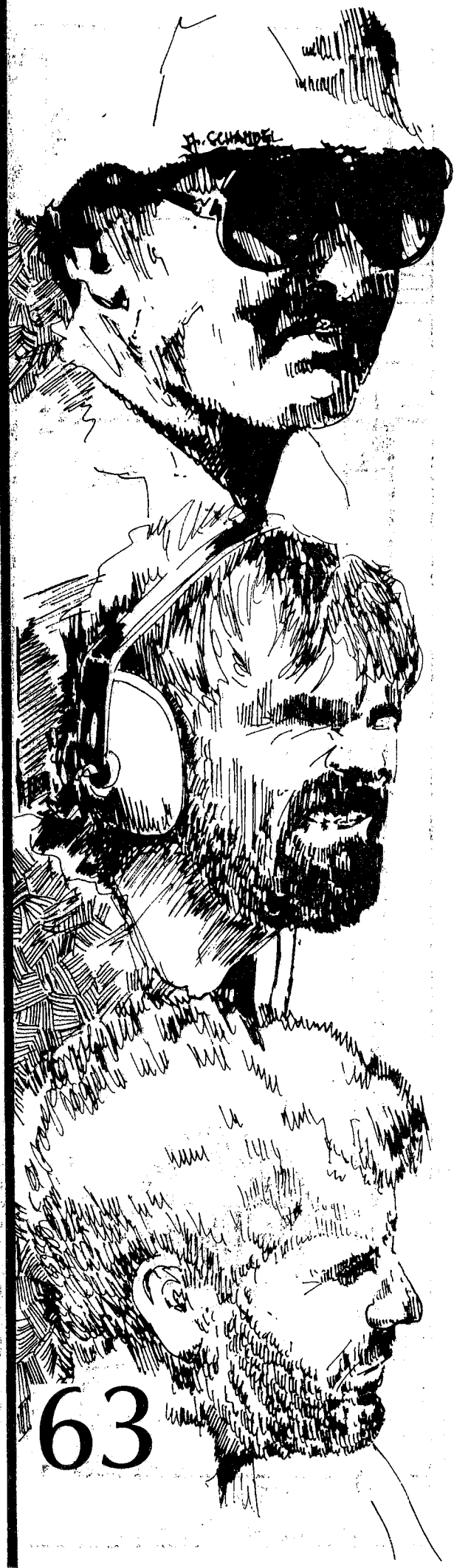
pour un tube, perce de nombreux trous et rac.
de la sciure. Videz plusieurs fois l'aspirateur



62



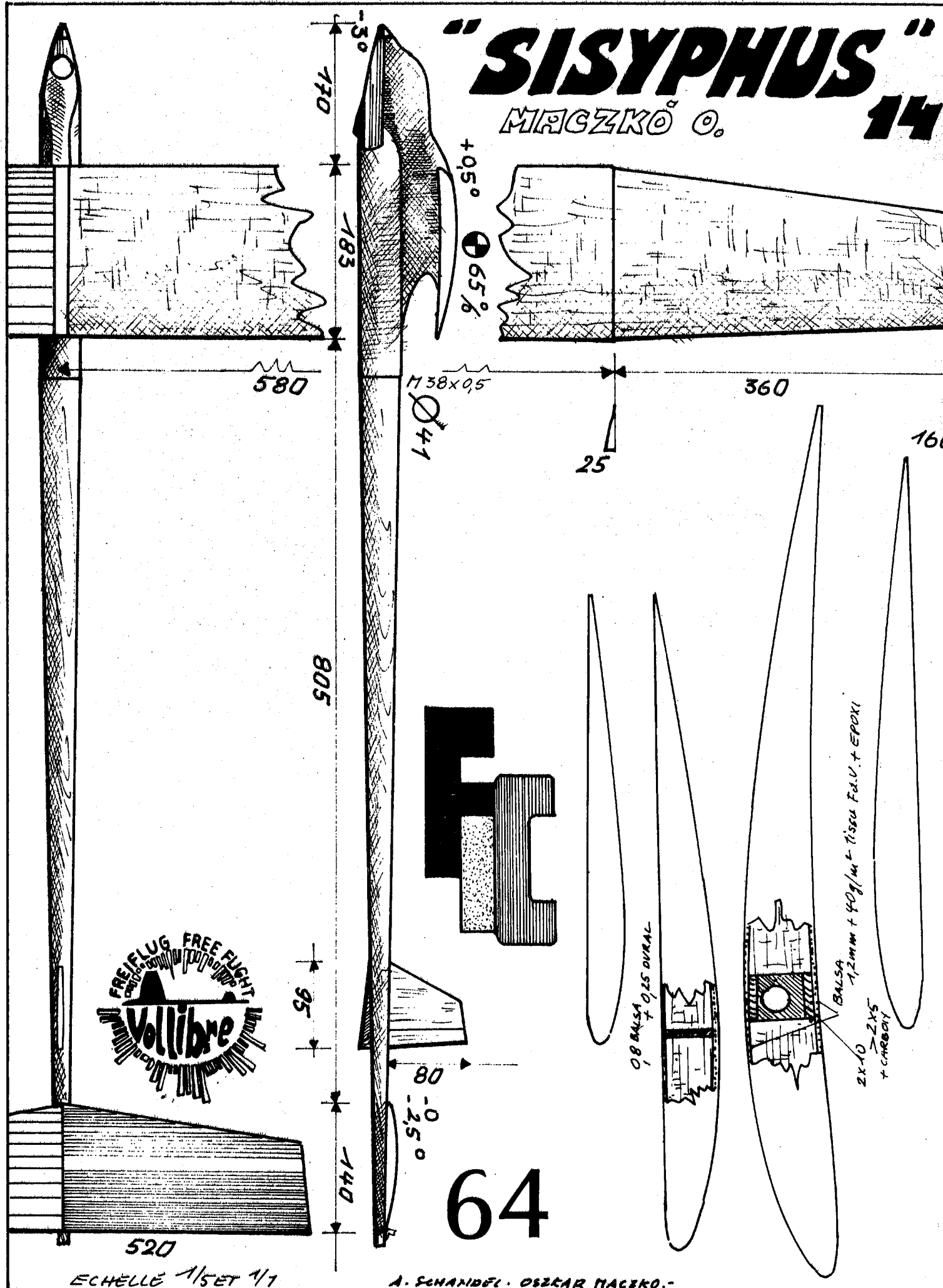
VOL LIBRE



"SISYPHUS"

MAGZKÓ O.

14



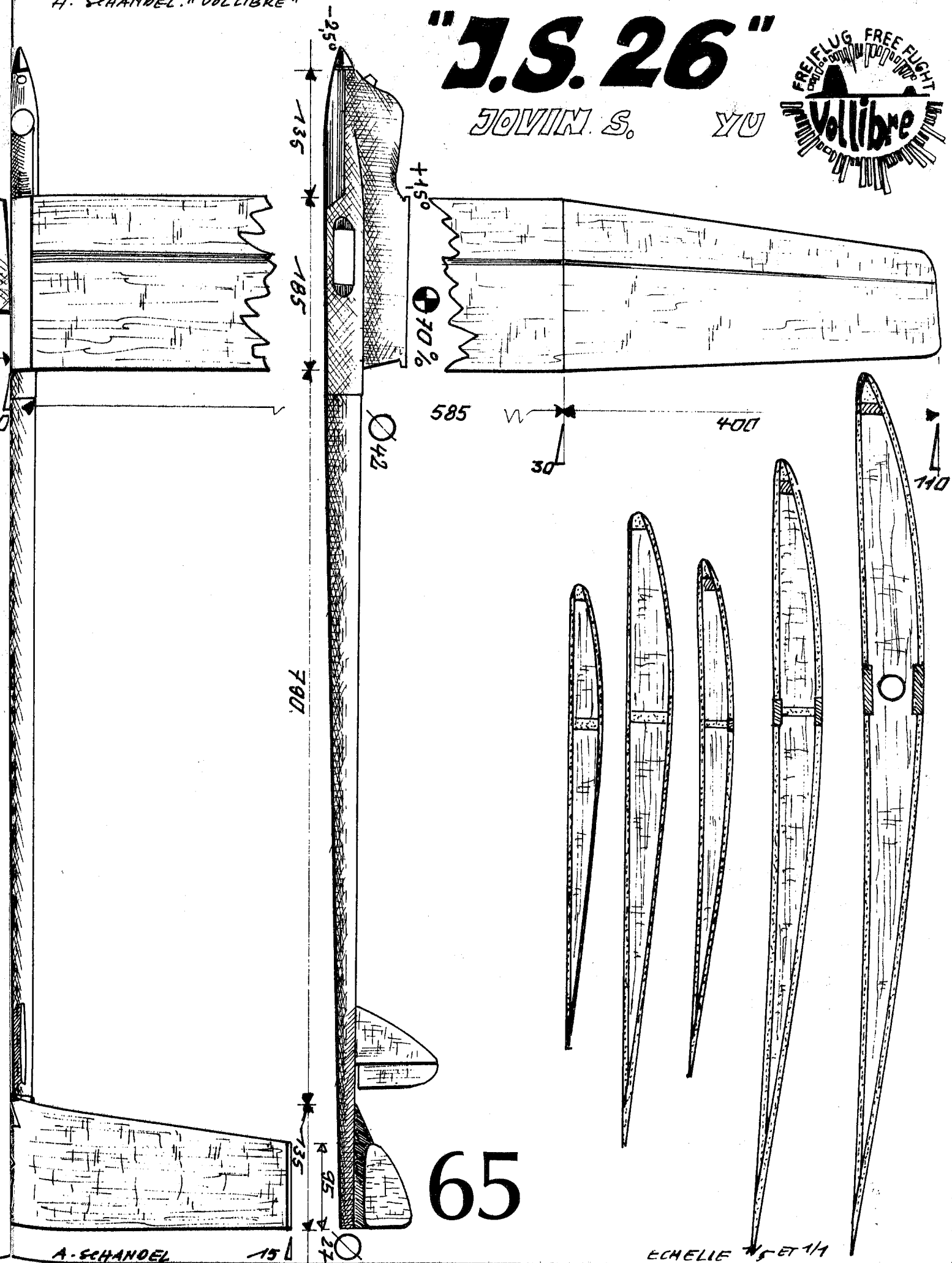
64

A. SCHANDEL "VOLLIBRE"

"J.S. 26"

JOVIN S.

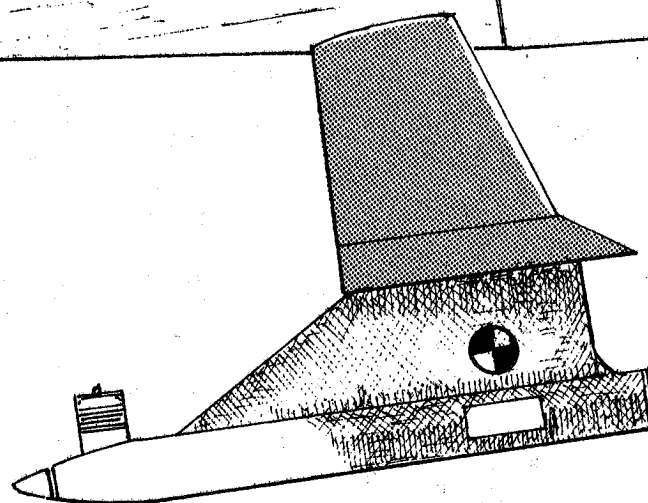
YU



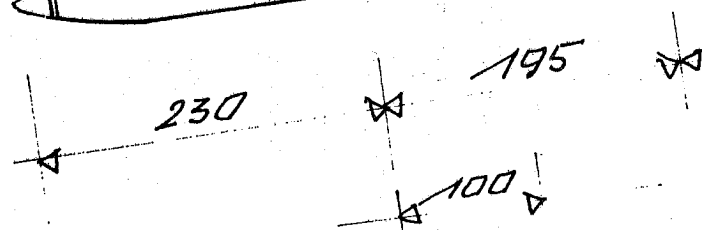
Siegfried REDA

R.F.A.

FIBRE DE CARBONE



800



- * MOTEUR: ROSSI 2,5cm³
- * HELICE: 180X90-FIXE
- * AIRES: AILE: 29,7 dm²
- STAB: 7,55 dm²
- * CONSTRUCTION AILE STABILIS. -
- STYROPOR (16 kg/m³) DECOUPE FIL CHAUFFE
- BALGA COLLE SUR STYROPOR COLLE EPOXY (0,5g par dm²) TRANSPARENTE.
- SOUS VIDE.
- RECOUVREMENT TISSUS F.D.V. 27g/dm²-COLLE EPOXY- SOUS VIDE.

* MASSES: AILE 190g
STAB: 20g

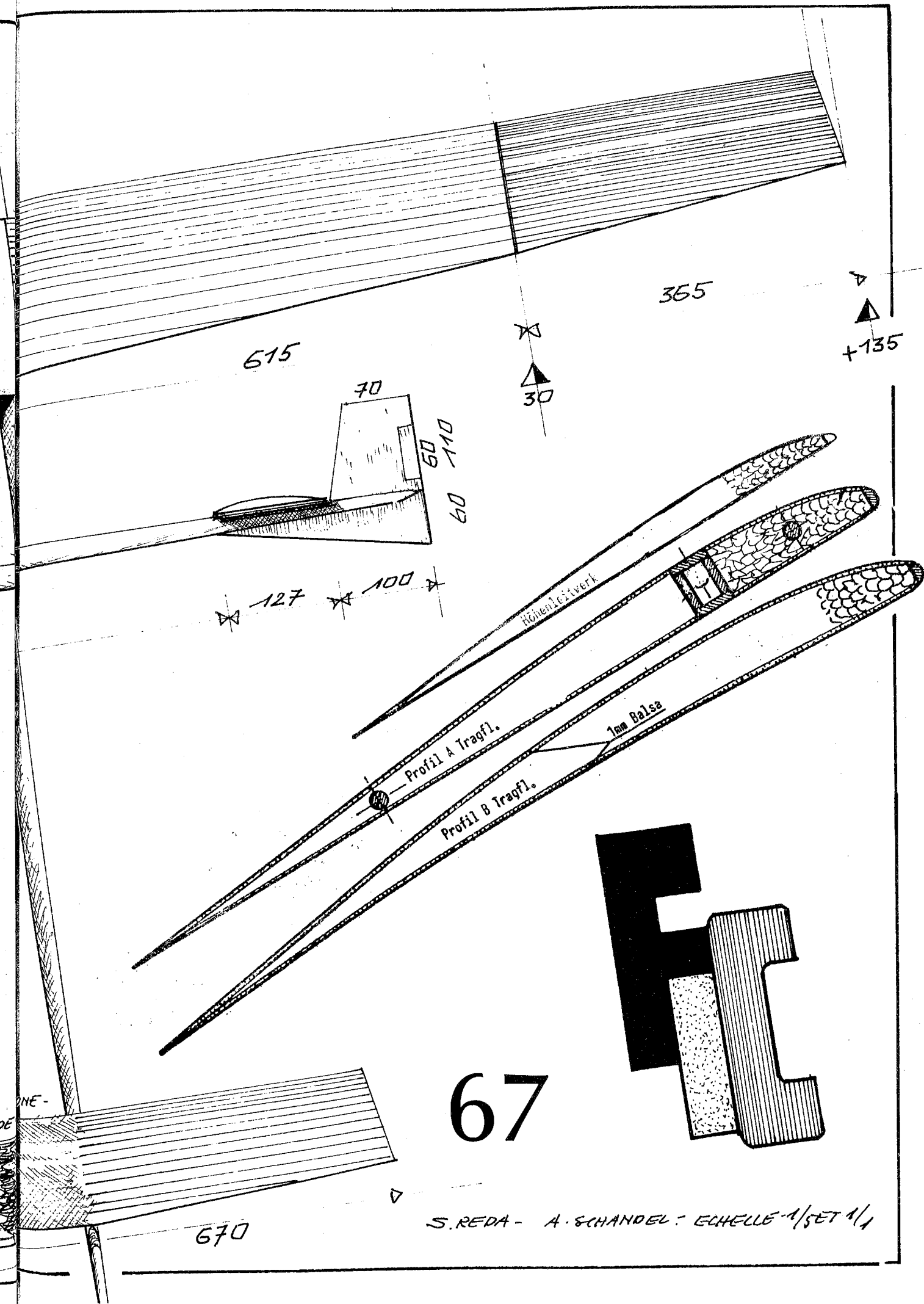


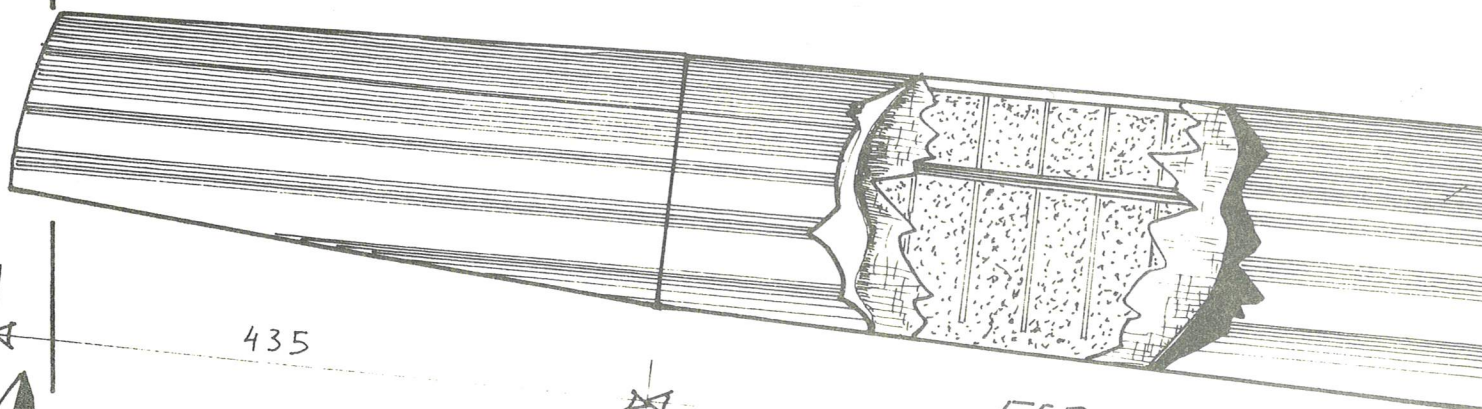
S.R. 104-112 A VERSION

66

FIBRE L

105





140

435

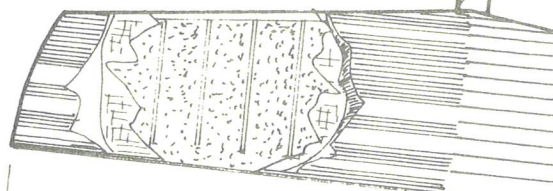
30

560

MB 38



68



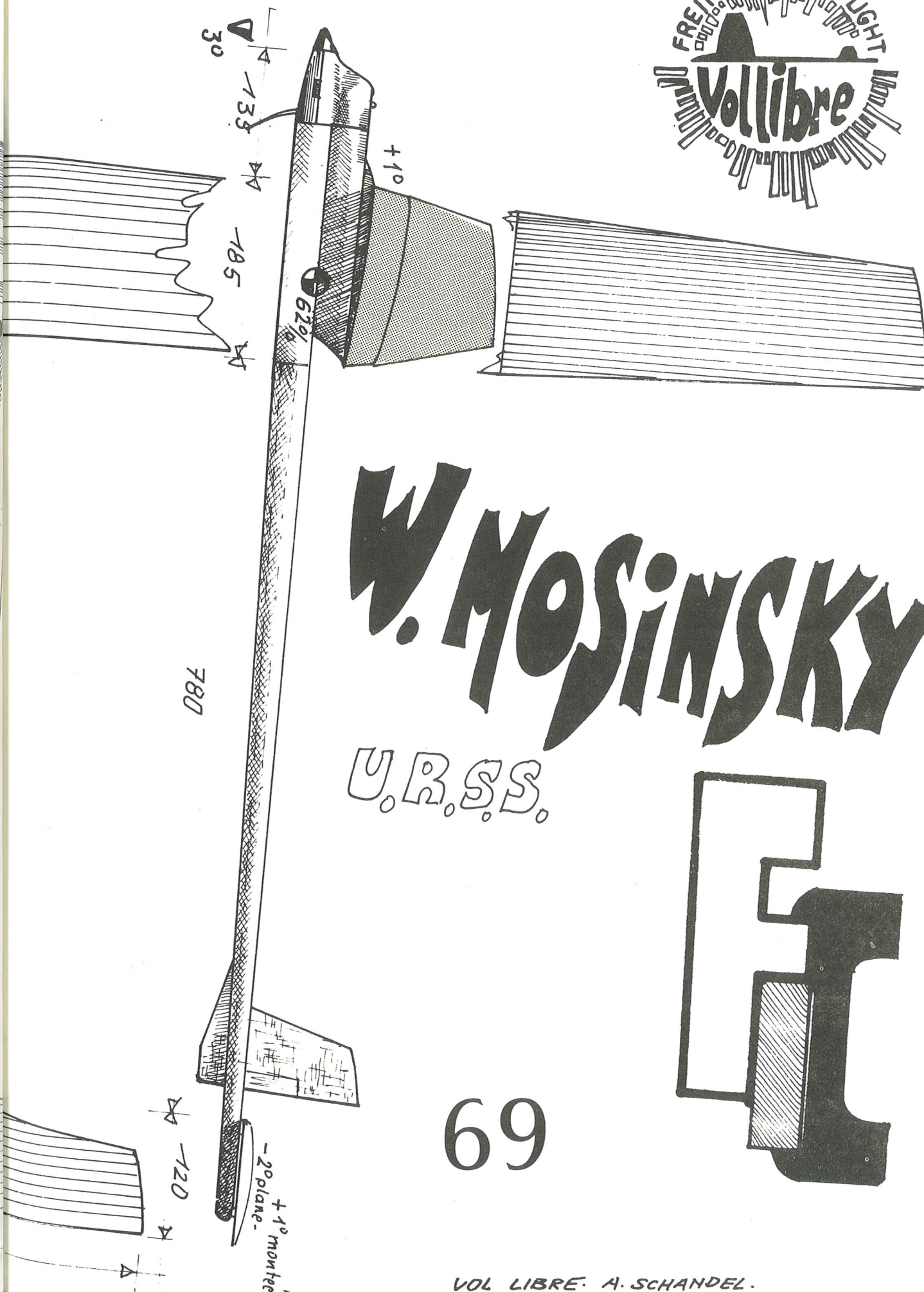
580

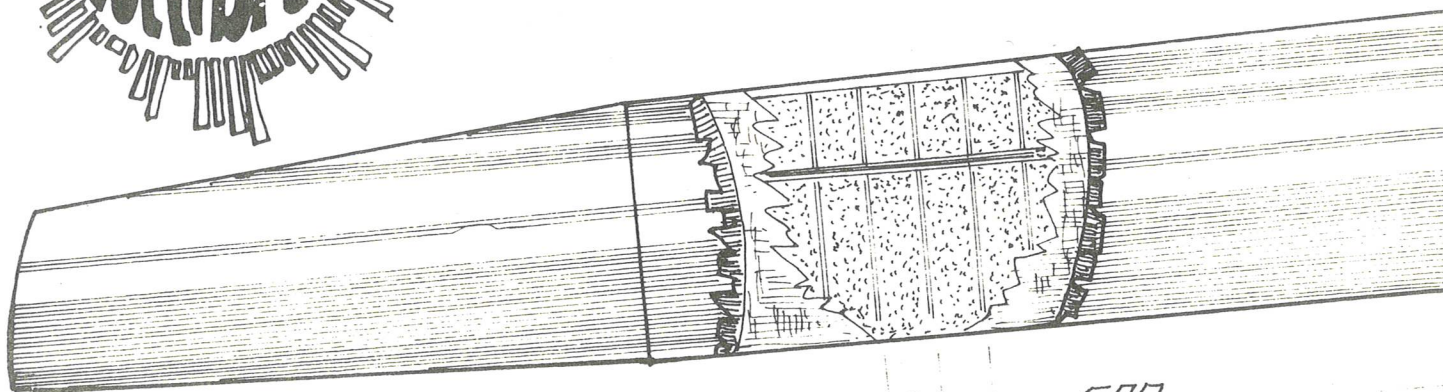


W. MOSINSKY
U.R.S.S.

69

VOL LIBRE. A. SCHANDEL.





35

600

400



30



180

N. NAKONETSCHNY
URSS

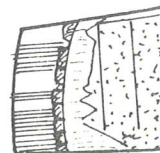


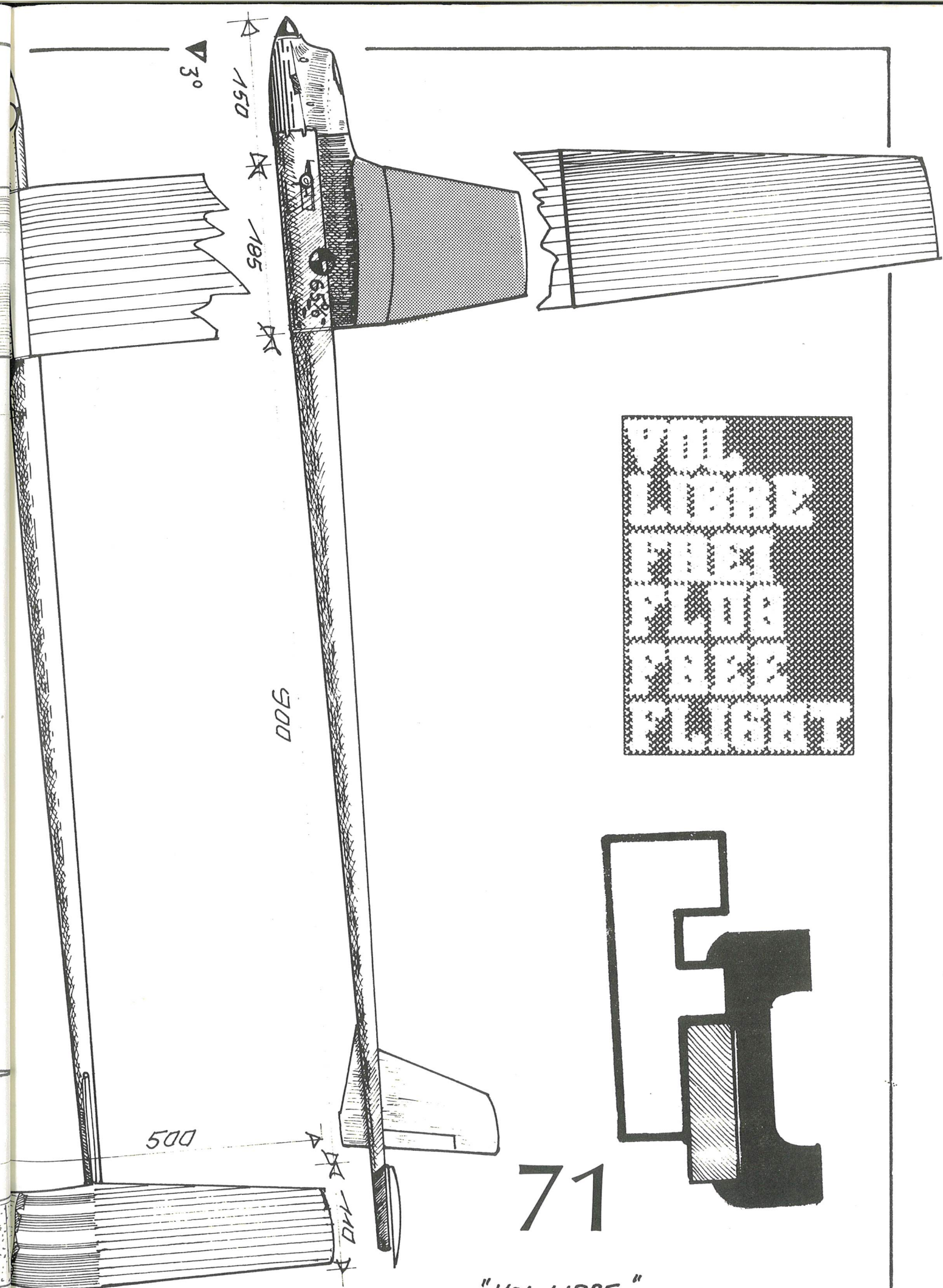
70



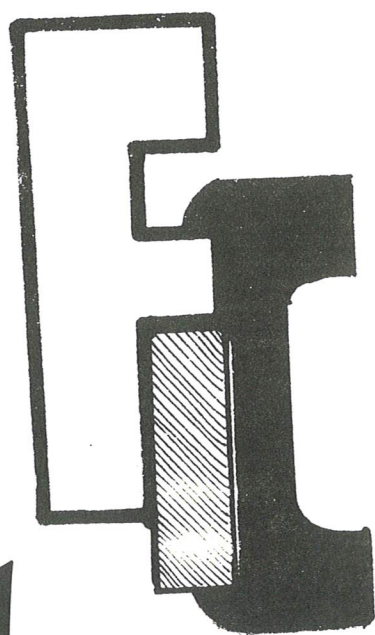
ECHELLE 1/5 - 1/1.

A. SCHANDEL.





VOL
LIBRE
FROM
KID
TO
ADULT
FLIGHT

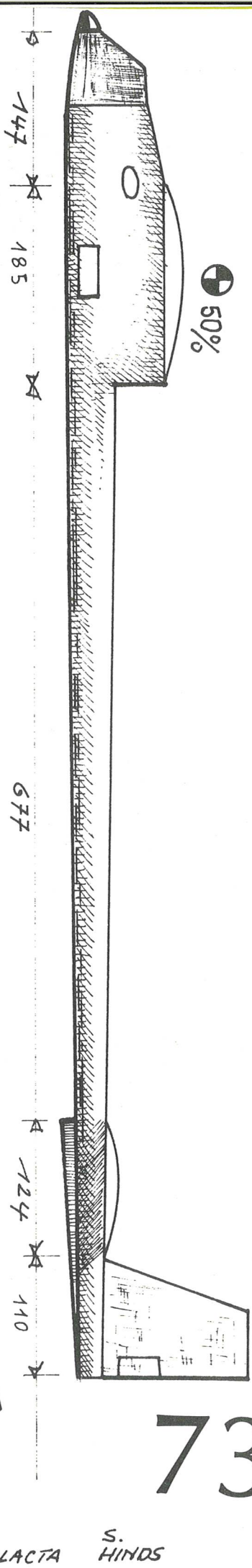


71

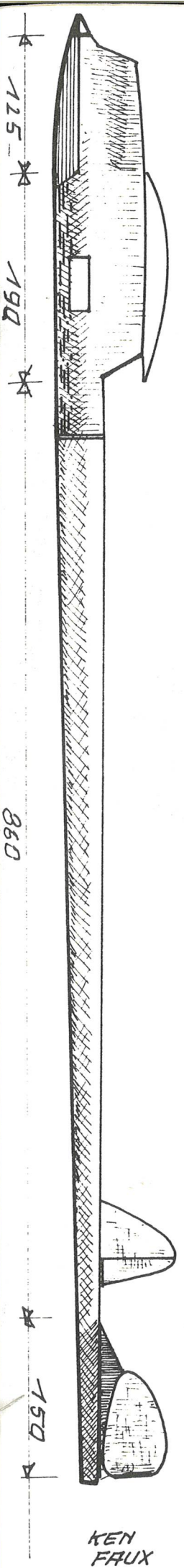
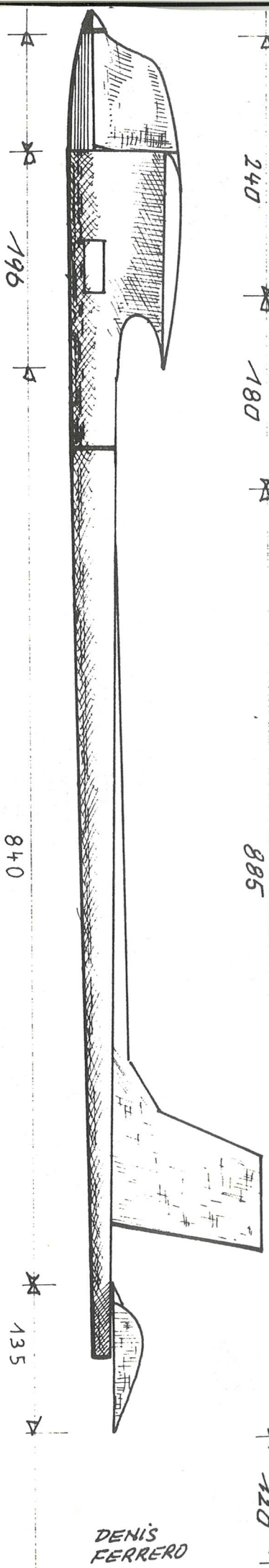
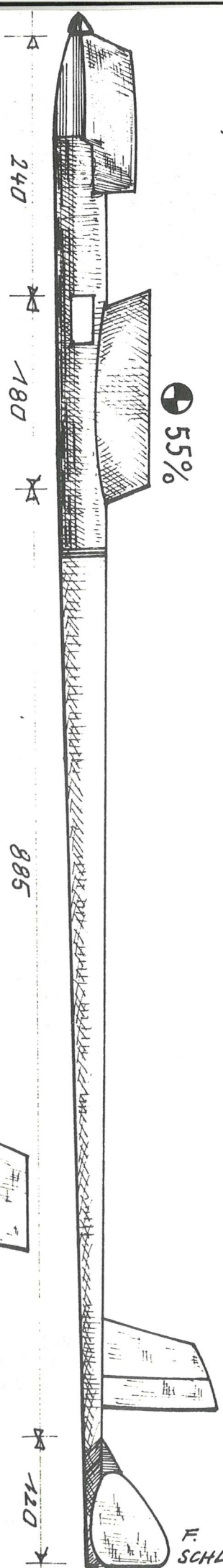
"VOL LIBRE"

EMBLETTA VOL LIBRE

73



55%



KEN FAUX

DENIS FERRERO

F. SCHLACTA

S. HINDS

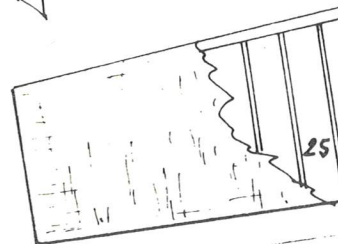
$$\begin{array}{c} O^o \\ \Delta \end{array}$$

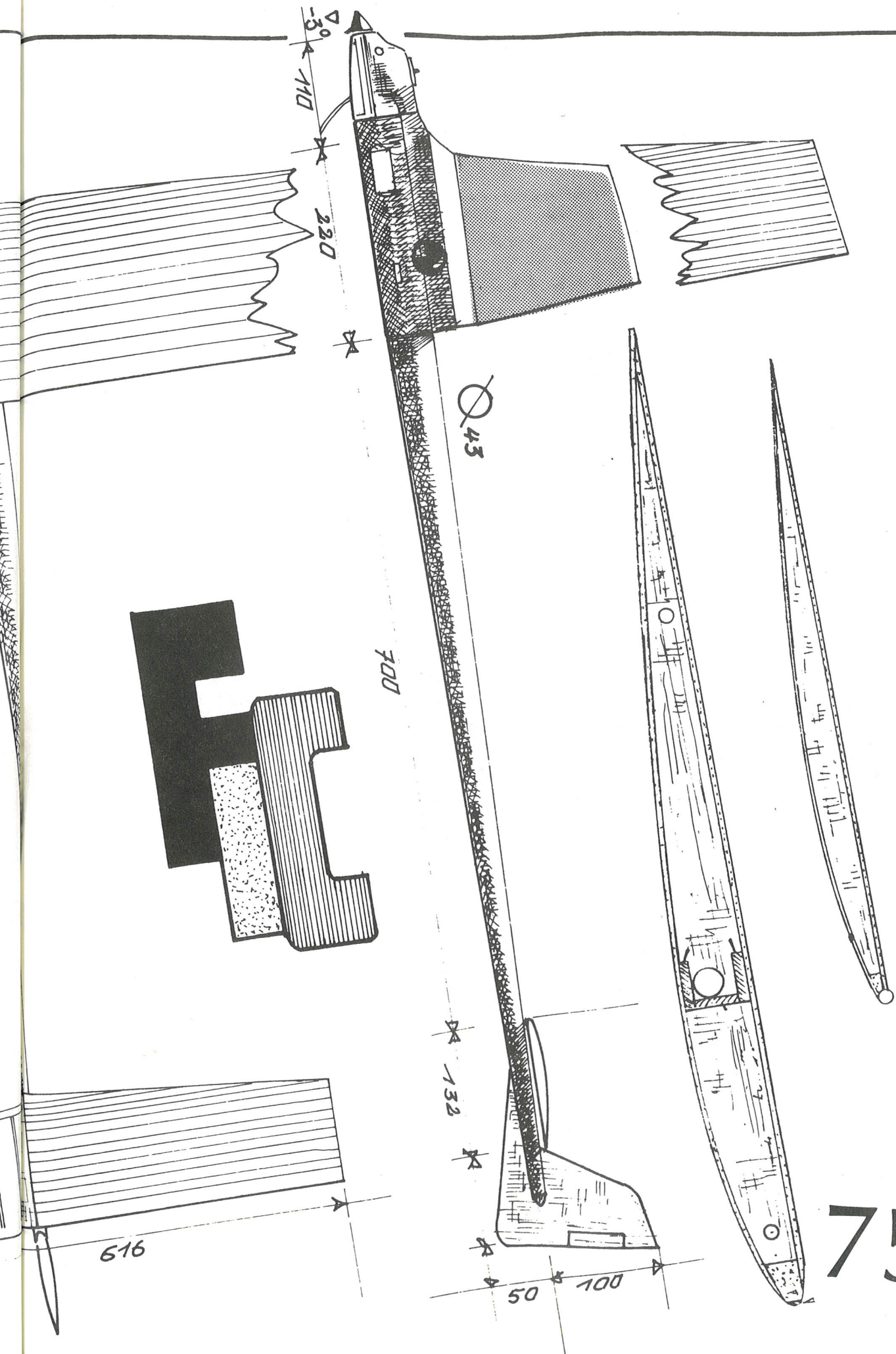
CHAMPION DU MONDE 1983



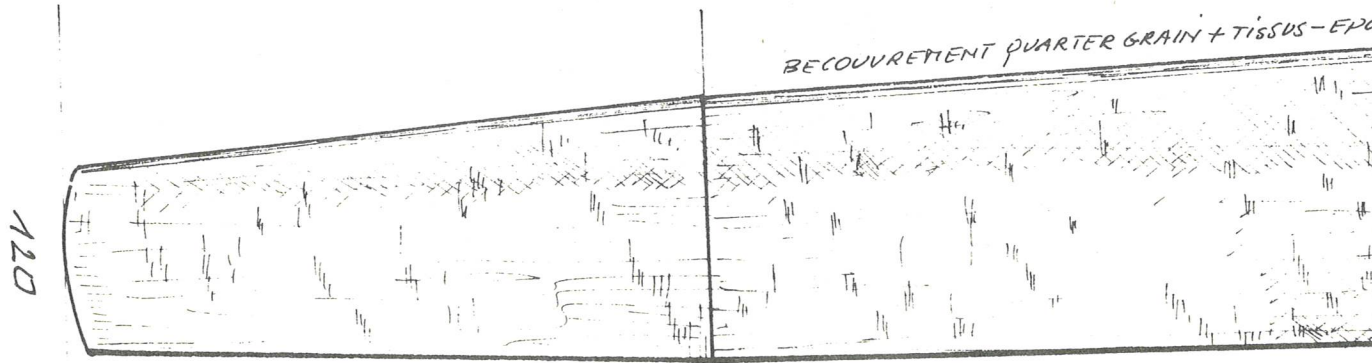
-
- A black and white line drawing of a man's face, heavily shadowed and wearing a beanie with the text '1940-21' on it. The drawing is done in a sketchy, expressive style with heavy cross-hatching for shading. The man has a beard and mustache, and his expression is somber. The beanie is a dark color with the text '1940-21' written on it in a stylized font. The background is plain white.

74





75



RECOUVREMENT QUARTER GRAIN + TISSUS - EPOXY

120

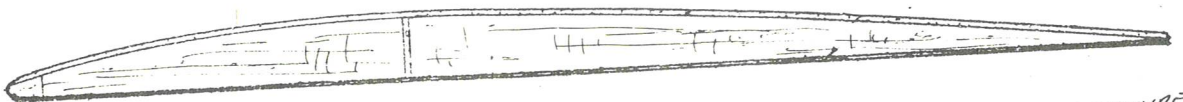
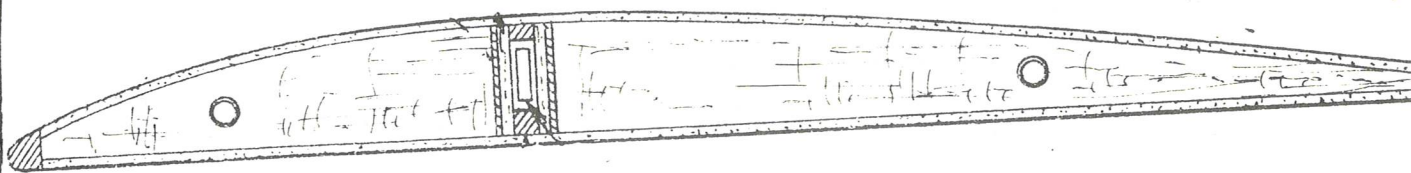
5
▲
+128

420

✕
▲
40

527

CLARENCE HAUGHT
USA

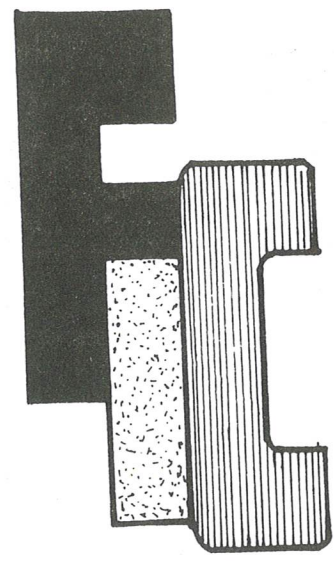
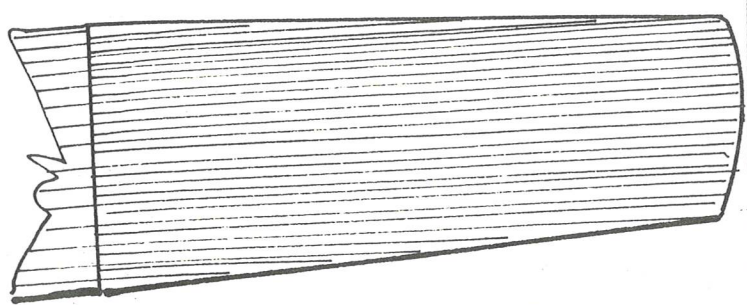
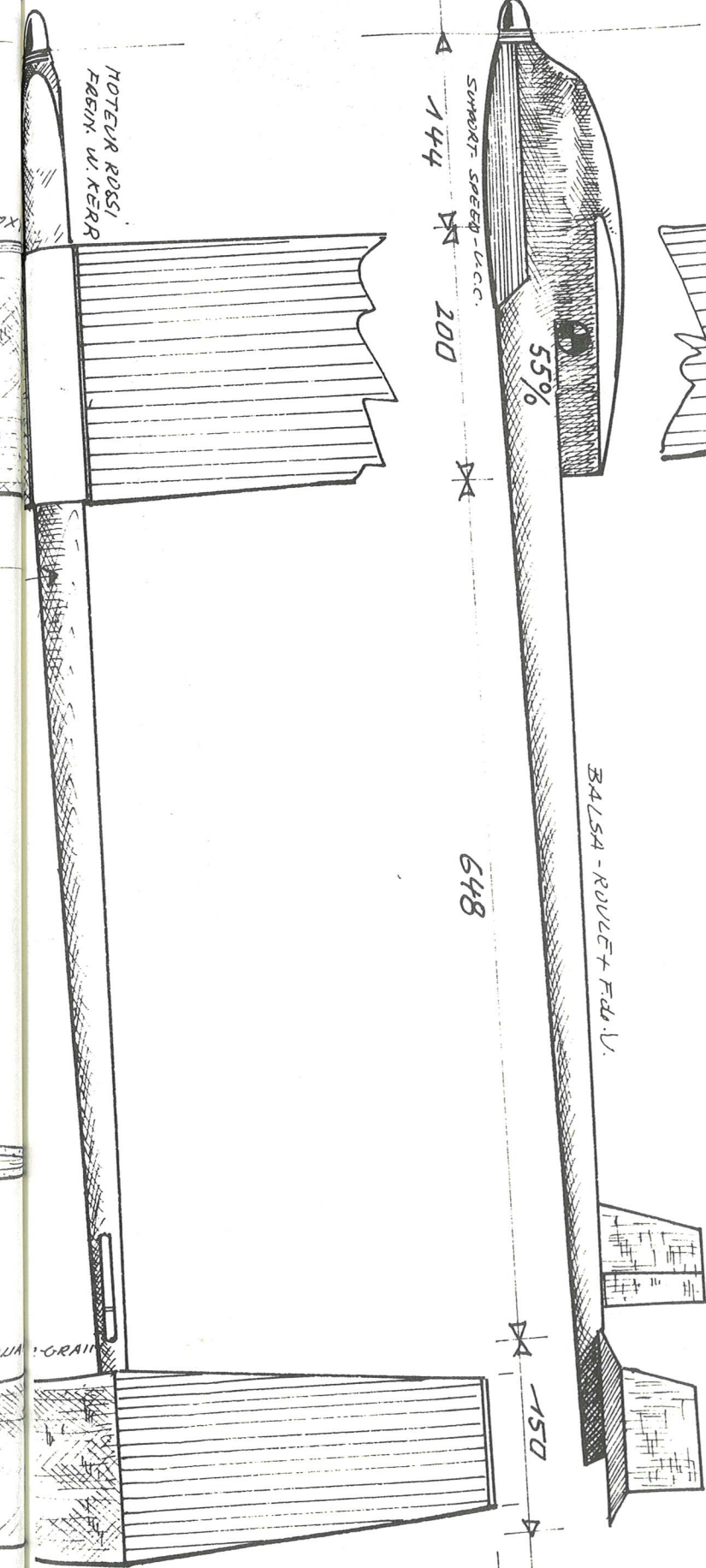


RECOUVREMENT -
TISSU - EPOXY



76

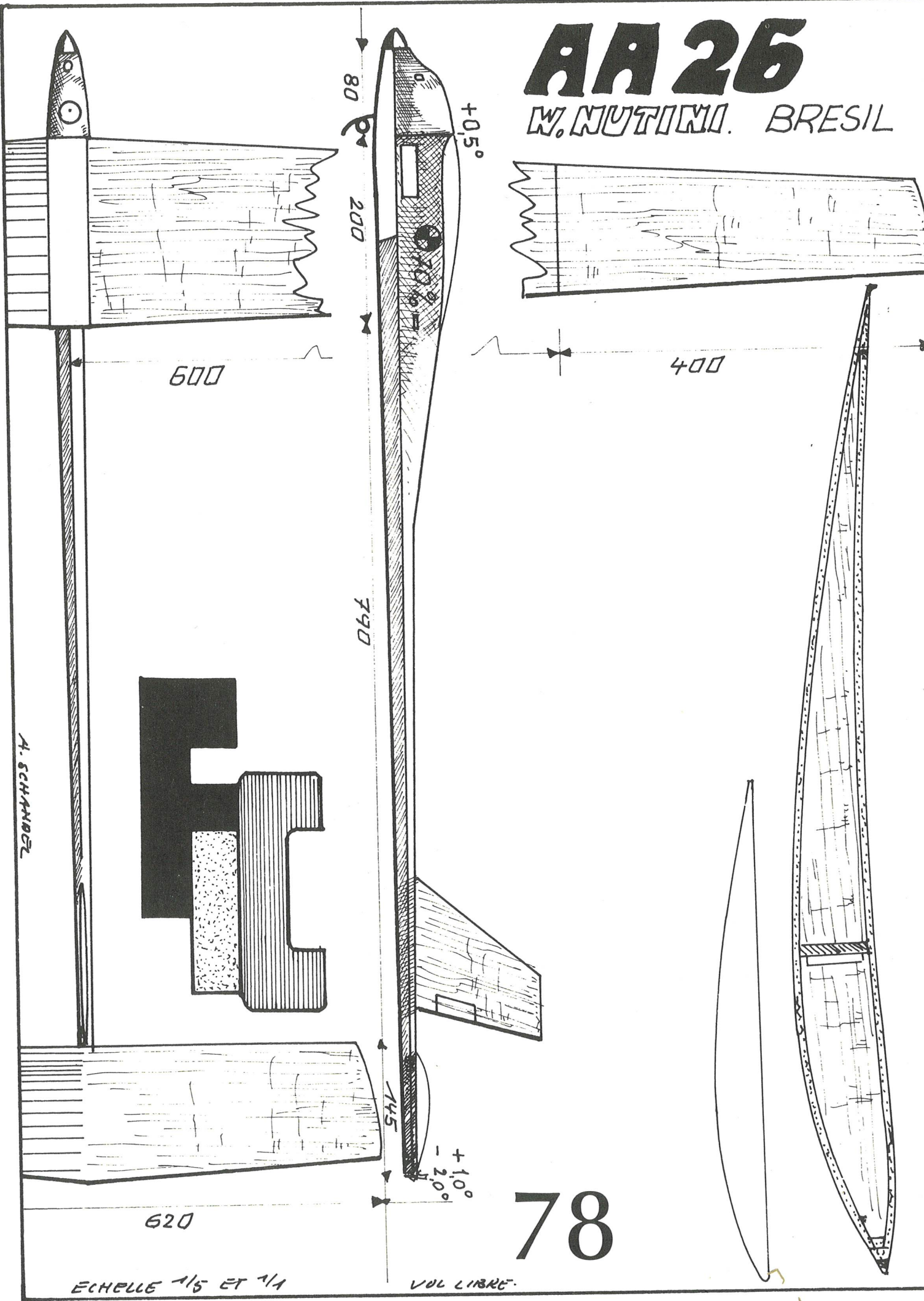
✕
▲
16



77

AA 26

W. NUTINI. BRESIL

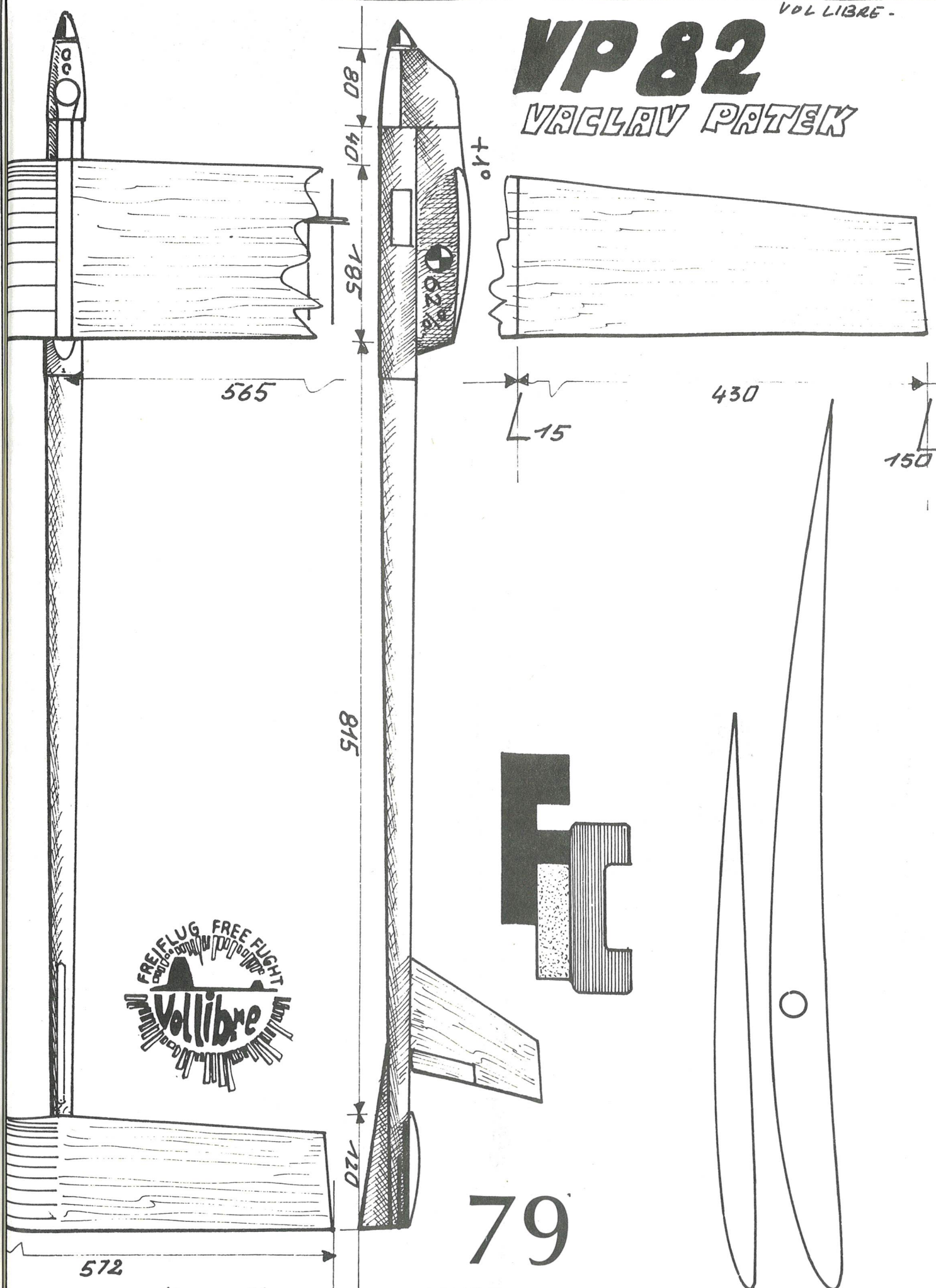


78

VOL LIBRE -

VP 82

VACLAV PATEK



79

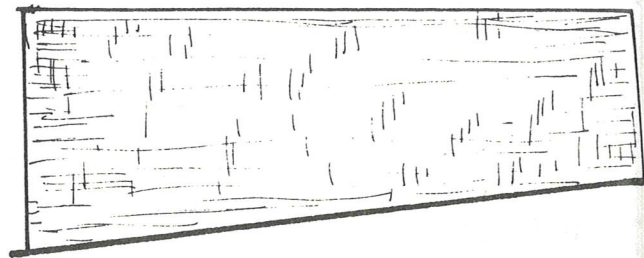
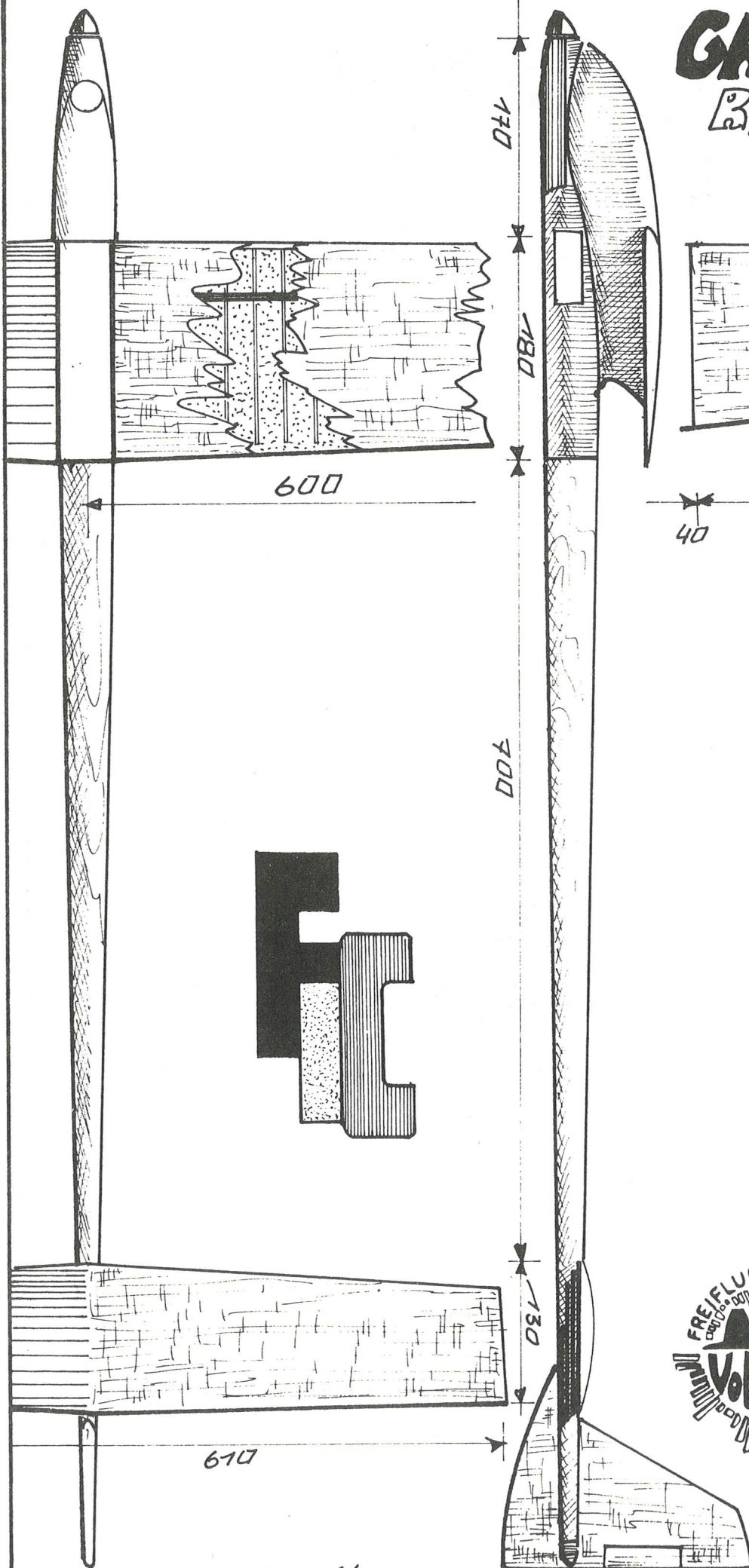
Echelle 1/5 et 1/1

A. SCHANDEL

VOL LIBRE.

GAMBRINUS

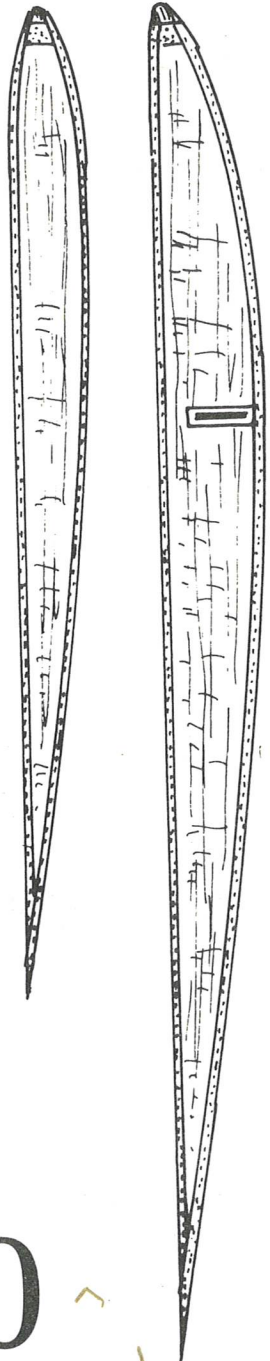
R. TRUPPE. A.



400 PROJ.

40

18

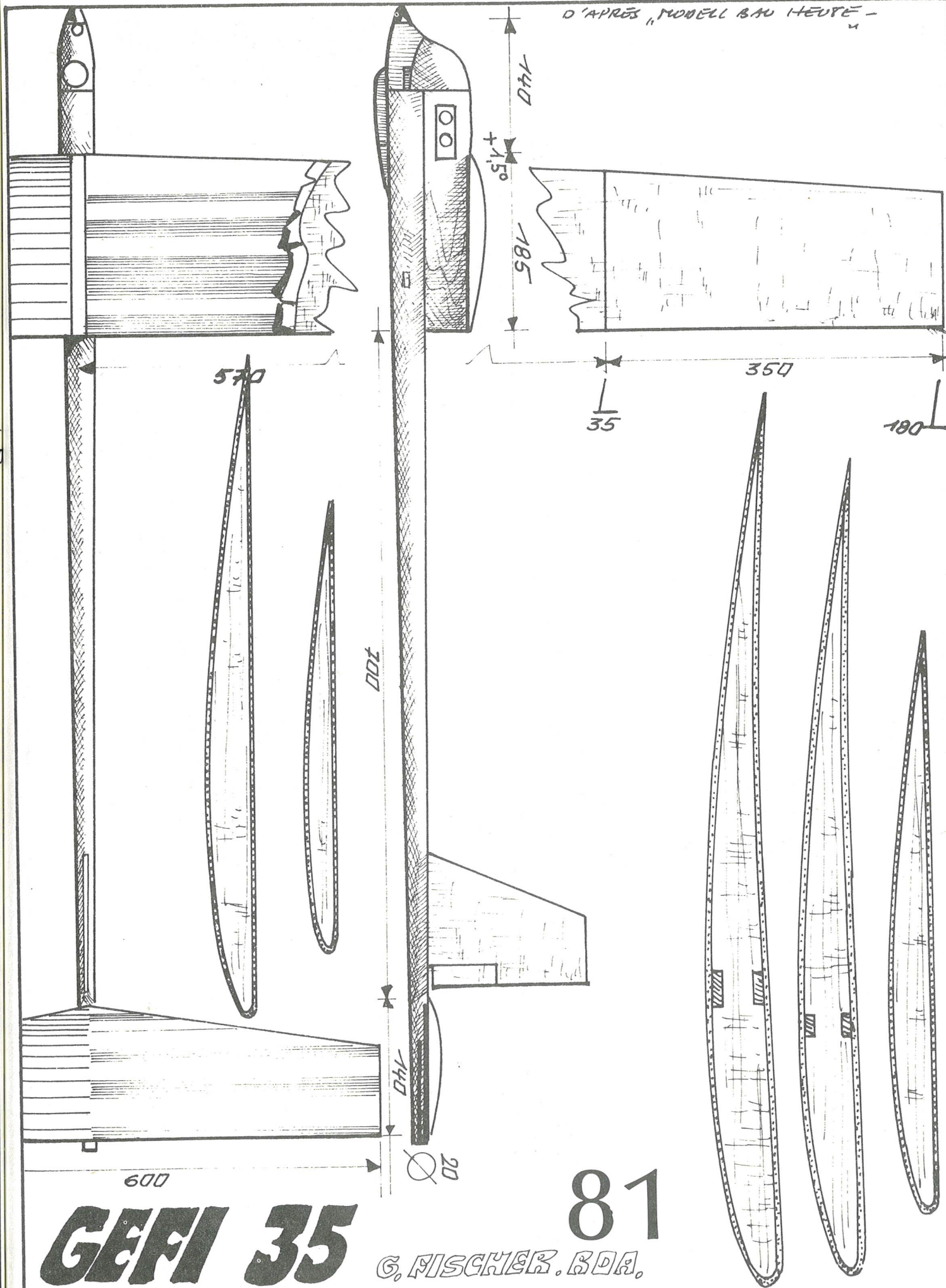


80

A. SCHANDEL.

ECHELLE 1/5 - 1/1

D'APRÈS "MODELL BAU HEUTE -



GEFI 35

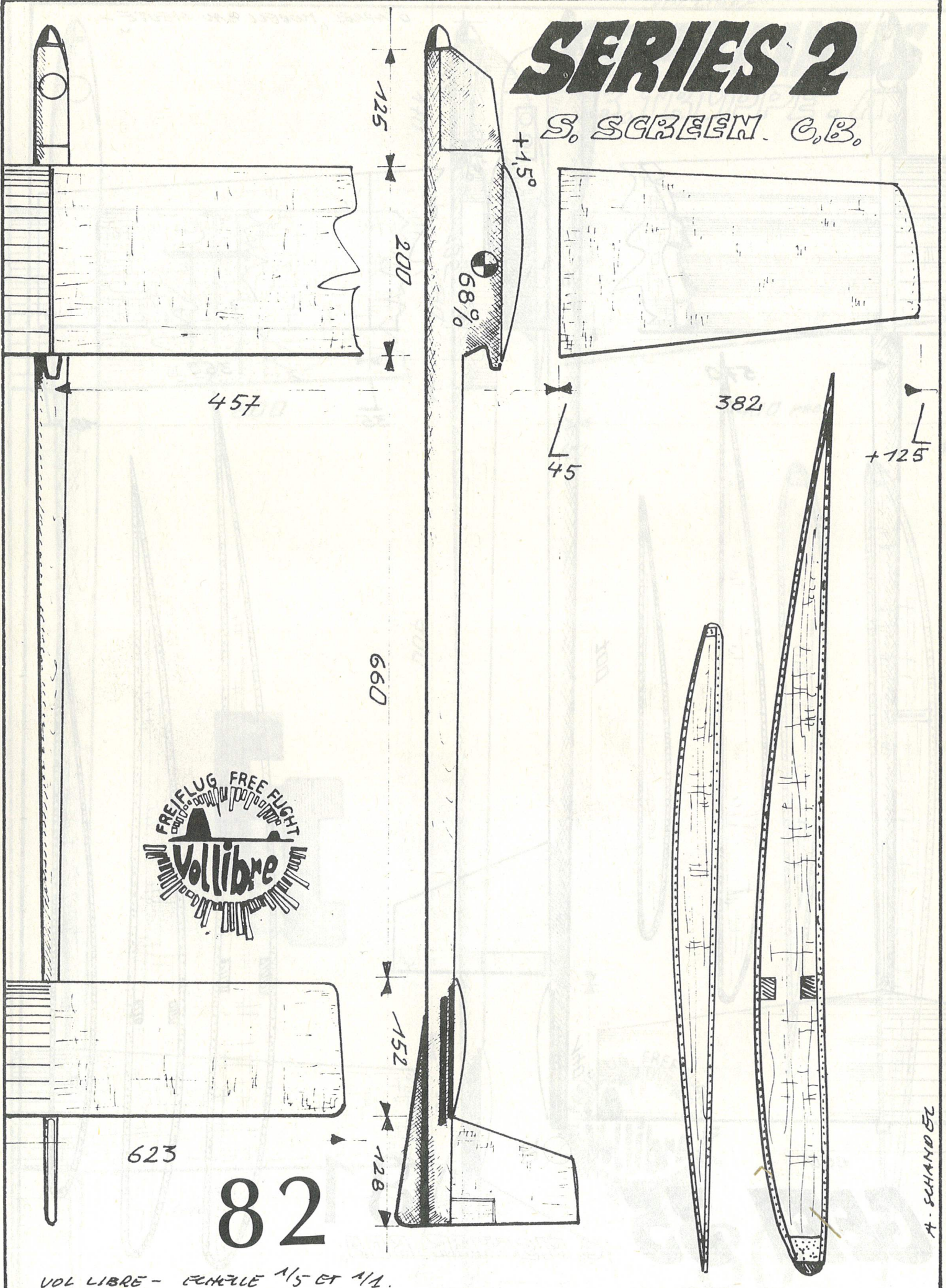
G. FISCHER, BDA.

81

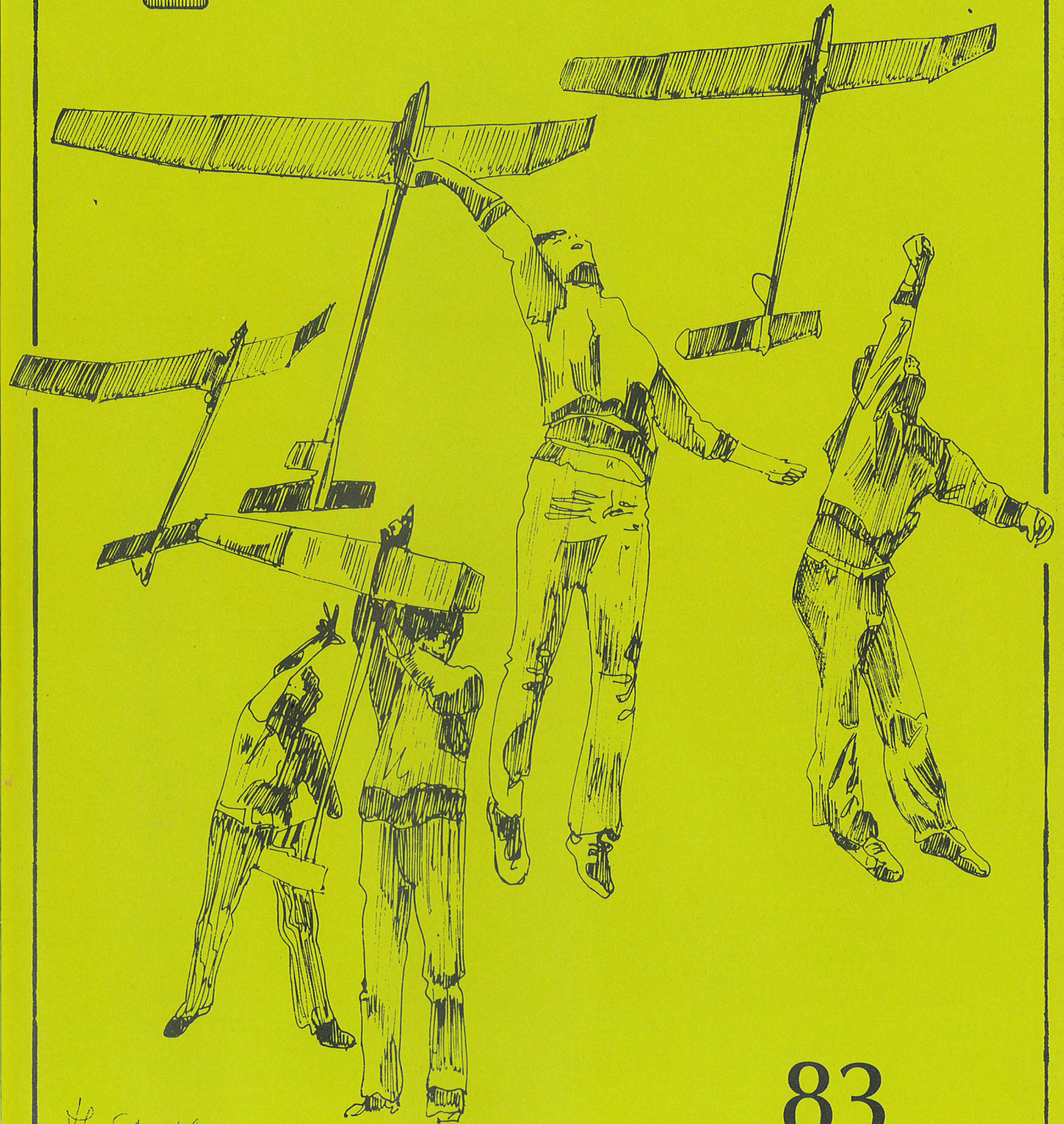
A. SCHANDER - EHELICH 115-111

SERIES 2

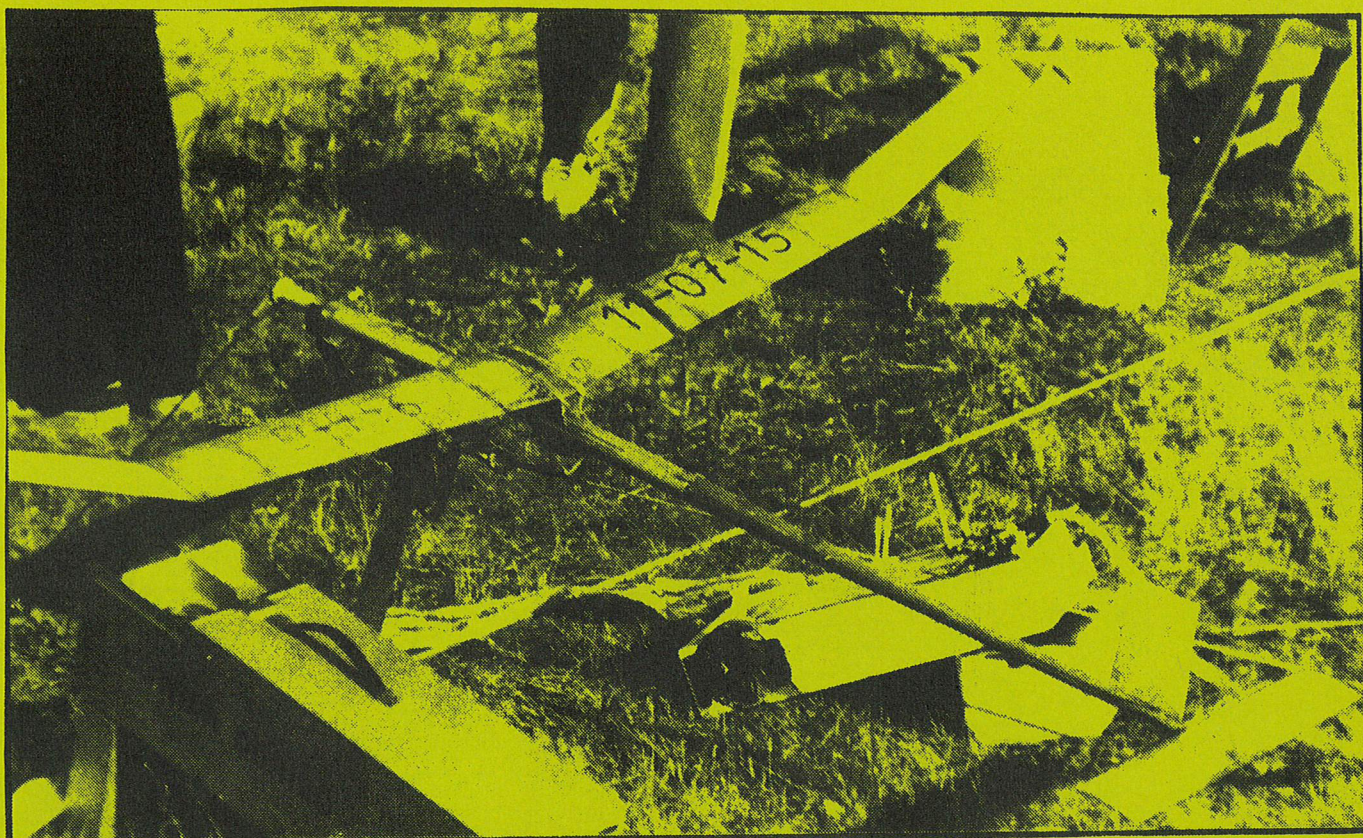
S. SCREEN. C.B.



A. SCHANDLER



A. Schandel



colloquial