Free Flight news FFn

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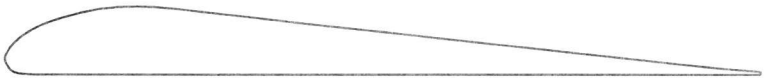
DIARY

9 February Shire Oaks School, Walsall	Indoor. LRS, HLG, scale. 9.00 to 17.00. Contact: D Richards 0121 502 3306.
15-17 Feb Lost Hills California USA	Max Men International. F1A, F1B, F1C, F1G, F1H, F1J. World Cup event. Contact: R White, 1030 Norumbega Dr, Monrovia, CA 91016, USA, tel +1 818 357 2907.
16 February NORTH LUFFENHAM	BMFA Winter Open. O/P (Frog Senior), O/R, O/G, SLOP, Vintage. Contact: S Screen.
22 February Pori, Finland	Bear Cup. F1A, F1B, F1C. World Cup event. Contact: K Lindgren, Muonamiehentie 5, 28610 Pori, Finland, fax +358 2632 4988.
1 March Clayton Green Sports Centre nr Chorley	Solarfilm fun fly. 10.30 to 15.30. Contact: D Hardman 01257 279 338.
2 March Area venues	BMFA First Area event. O/R (Gamage), F1C (Halfax+Plugge), F1H, Tailless.
8 March Wigan College	Norwind. Pusher, HLG, keyhole scale. 8.30 to 15.30. J Taylor 01663 750 996
16 March Finningley	Vintage Pannett and Kay. O/G, O/P and SLOP, vintage, combined F1G/H/J/CO2/E30/P30/mini vintage. See FFn 9702. Access requires registration on list held by Dennis Davitt (0113 2675433). Contact: Ian Davitt, 01943 872426.
22 March Church Hall, Avenue, Sale	Timperley Indoor. LRS, HLG. 13.00 to 18.00. Contact: J Taylor, 01663 750 996.
22-23 March Gjovik, Norway	Holiday on Ice. F1A, F1B, F1C. World Cup event. Contact: T Bortne, Jernbaneveien 28, 2840 Reinsvoll, Norway, tel +47 611 97682, fax +47 611 91023.
28-30 March Wolmirsleben/ Egeln, Germany	4th Europa Festival. F1G, F1H. Contact: E Herzog, Am Muhlenholz 10, 39435 Egeln, Germany, tel +49 39268 31033.
28-31 March Wagga-Wagga, NSW Australia	Australian FF Championship. F1A, F1B, F1C. World Cup event. Contact: J Fletcher, 4 Candowie Cres, Baulkham Hills, NSW 2153, Australia, tel +61 29639 3421.
29-30 March Salisbury Plain	BMFA 2-day. Sat: O/G, O/P, O/R. Sun (5 flights): F1A, F1B, F1C - team selection. CD (Sat) B Nicholson.
6 April Area venues	BMFA Second Area event. O/G, F1B (Weston+Plugge), F1J, HLG.
13 April Cardington	BMFA Indoor. Limited Penny Plane and Index. Call L Barr on Fri or Sat before meeting, tel 01628 487544.
19 April Liptovsky Slovakia	Liptov Cup F1E. World Cup event. Contact: M Valastiak, Vrbicka 1869, 031 01 Liptovsky Mikulas, Slovakia.
20 April Area venues	BMFA Third Area event. O/P (White), F1A (KMAA+Plugge), F1G, Vintage.
25-27 April Bendigo, Victoria, Australia	Victorian FF State Championships. F1A, F1B, F1C. World Cup event. Contact: R Bird, 31 Chivers Rd, Templestowe, Victoria 3106, Australia, tel&fax: +61 39846 6297.

7 Ashley Road, Farnborough, Hants, England GU14 7EZ kaynes@compuserve.com

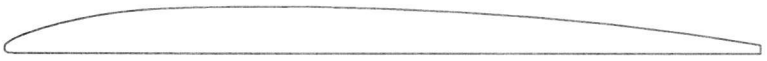
Compiled and produced by Ian Kaynes, Paul Masterman and Michael Warren

Peers Head Beagle 26 wing									
Nose radius= 0.91 Upper surface max= 9.24 at 37									
Camber max= 6.65 at 47 Max thickness= 6.74 at 17 Area= 420									
X	0	1.25	2.5	5	7.5	10	15	20	25
YU	1.62	3.47	4.31	5.48	6.26	6.88	7.85	8.48	8.90
YL	1.62	0.21	0.03	0.05	0.23	0.55	1.16	1.75	2.32
X	30	40	50	60	70	80	90	95	100
YU	9.13	9.21	8.84	8.11	6.96	5.43	3.41	2.12	0.68
YL	2.89	3.88	4.44	4.50	4.05	3.07	1.65	0.87	0.00



Peers Head Beagle 26 tail									
Nose radius= 1 Upper surface max= 9.00 at 17									
Camber max= 4.50 at 17 Max thickness= 9.00 at 17 Area= 513									
X	0	1.25	2.5	5	7.5	10	15	20	25
YU	2.13	4.19	5.25	6.62	7.49	8.18	8.93	8.91	8.41
YL	2.13	0.32	0.09	0.00	0.00	0.00	0.00	0.00	0.00
X	30	40	50	60	70	80	90	95	100
YU	7.85	6.68	5.61	4.52	3.44	2.37	1.29	0.78	0.38
YL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Cooper A1 no.9 wing									
Nose radius= 0.6 Upper surface max= 8.94 at 37									
Camber max= 6.46 at 47 Max thickness= 6.07 at 22 Area= 370									
X	0	1.25	2.5	5	7.5	10	15	20	25
YU	0.65	2.16	2.99	4.22	5.25	6.03	7.22	7.98	8.49
YL	0.65	0.03	0.00	0.27	0.57	0.86	1.48	1.93	2.45
X	30	40	50	60	70	80	90	95	100
YU	8.78	8.93	8.53	7.67	6.42	4.97	3.09	1.90	0.38
YL	2.94	3.79	4.34	4.43	3.89	3.08	1.65	0.84	0.00



Cooper A1 no.9 tail									
Nose radius= 0.7 Upper surface max= 6.32 at 35									
Camber max= 3.16 at 35 Max thickness= 6.32 at 35 Area= 481									
X	0	1.25	2.5	5	7.5	10	15	20	25
YU	0.74	1.92	2.49	3.35	4.05	4.63	5.50	5.99	6.18
YL	0.74	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
X	30	40	50	60	70	80	90	95	100
YU	6.27	6.30	6.03	5.56	4.88	3.96	2.71	1.98	1.17
YL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HEAD BEAGLE 26, F1B by Russell Peers

I try to keep mods from model to model small so that I can fly them the same - motor strandage, turns, timer start systems, and most importantly the launch angle and bank. I can use any model with no check flight. For example, at the 1996 Stonehenge Cup I had models downwind from round 7 and first, second and third flyoffs. Four different models and all maxes all downwind at the same time.

The motor tube is made up from a wet layer of 36g kevlar at 45° then wind on dry carbon tow (from 200g cloth), with extra added by hand at the pylon position. Next 93g carbon wet at 90°, then 93g carbon wet at 45° pulled to 60°. I then roll as per Pym Ruyter article (FFn 9504) - super info thanks. I heat "96" to 50° C and have no twisting problems. I shall still use this way even with un-heated tubes for 97 onwards.

The new D-box tail I have used since 1995 is very good strong and stable.

My last two models (26 and 27) use variable pitch DPR AA, in my opinion this is much better than standard non-VP so I expect all to be VP now.

I had a first and a second at the first two trials and so was on the 97 team. I did a lot of flying on 35 grams in 1996. With my trim set up I found I had to reduce A/R time on all my models by about 1 sec. I found little glide trim change. With the new trials you have to max out to give yourself a chance for high points via a flyoff. In 1996 there were seven F1B BMFA comps and I maxed out in all seven comps. Under the new 1997 rules there will be fewer in flyoffs so to max out will be even more important.

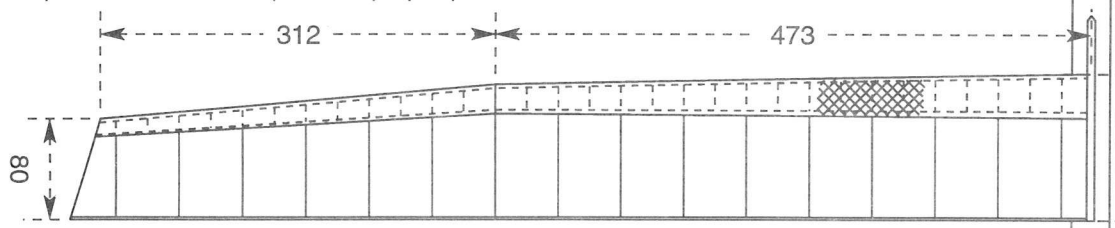
Andy Crisp told us to build a flyoff model. I am building a 2-metre model for this. But I find getting into flyoffs outside the UK is much harder. I now have eight trimmed DPR Head Beagles all well flown on 35g. I hope they do as well as on 40g! Seems a long time since I built a Woodpecker!

RIDE WANTED TO WORLD CHAMPS

Russell Peers wants a seat to the 1997 World Championships in the Czech Republic. Clean licence, will share costs. Call Russell on 01270 60893.

DIHEDRAL
inner panels 4
tips 102 rel to inner (at 300 tip span)

93g carbon D-box tapers 30 -> 20 -> 13

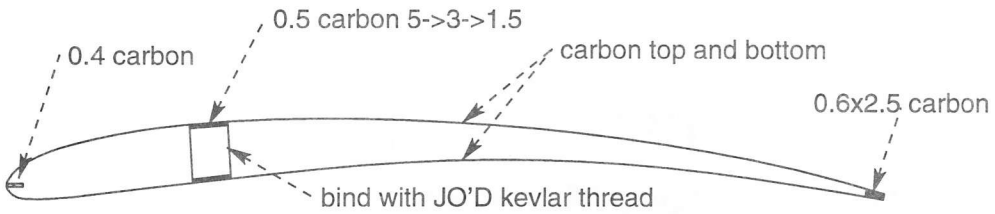


at DH break: LE sweep 9, chord 107

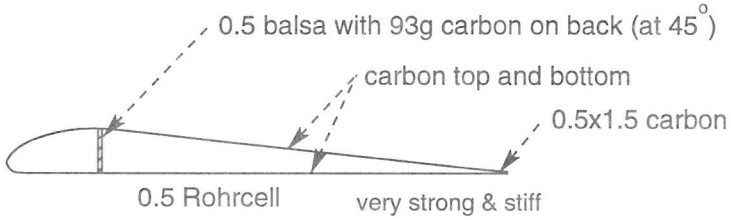
Slight washout left tip, other panels flat

wing and tail covered with J O'D mylar
(very weak, I have to repair a lot but can cover a wing for only 2.5g, so I put up with continual servicing and re-cover from time to time)

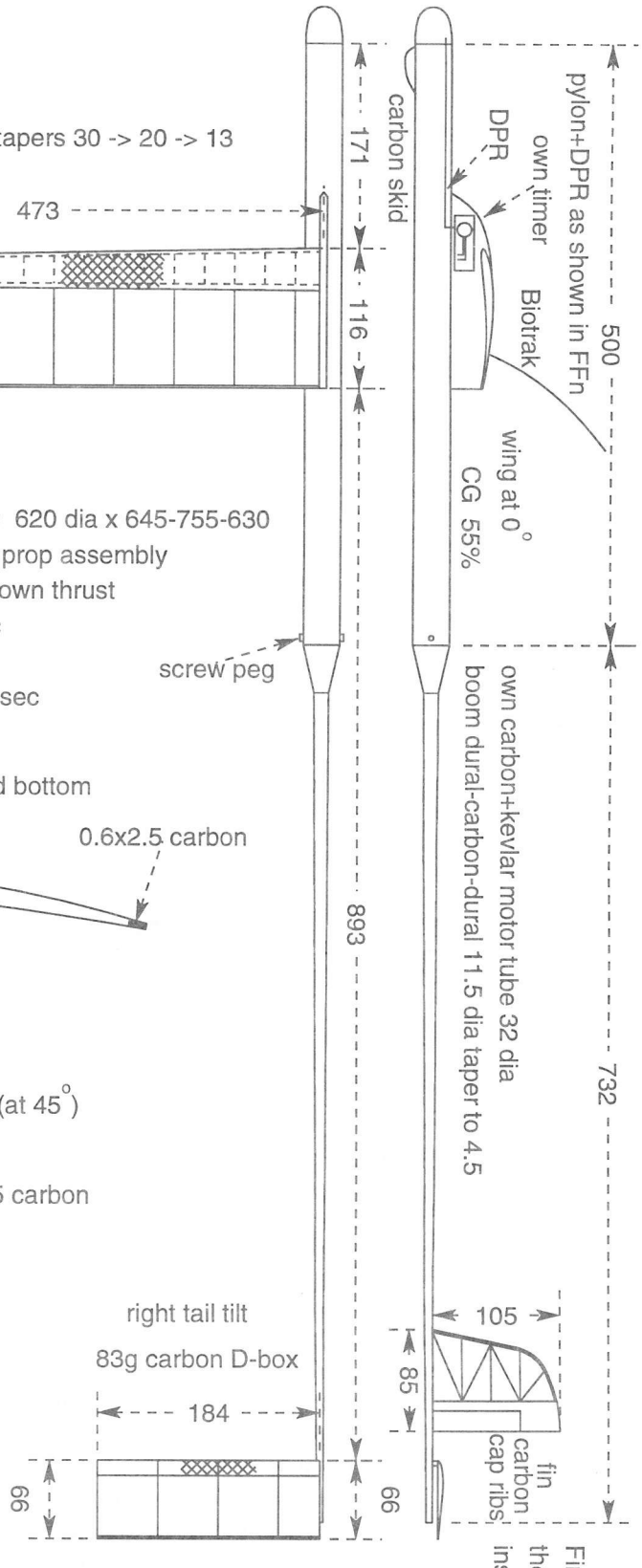
Carbon prop 620 dia x 645-755-630
AA DPR VP prop assembly
2° right, 1° down thrust
DPR 0.5 sec
VIT 4.5 sec
AR at 11.25 sec



wing ribs 1.5 balsa



no LE in tail on "26", now use a
0.4 LE on new trimmed "27"



Fin LE: 3x1/32" balsa outside, then 0.1 carbon, 1/32" balsa inside, laminated with epoxy

WEIGHTS g

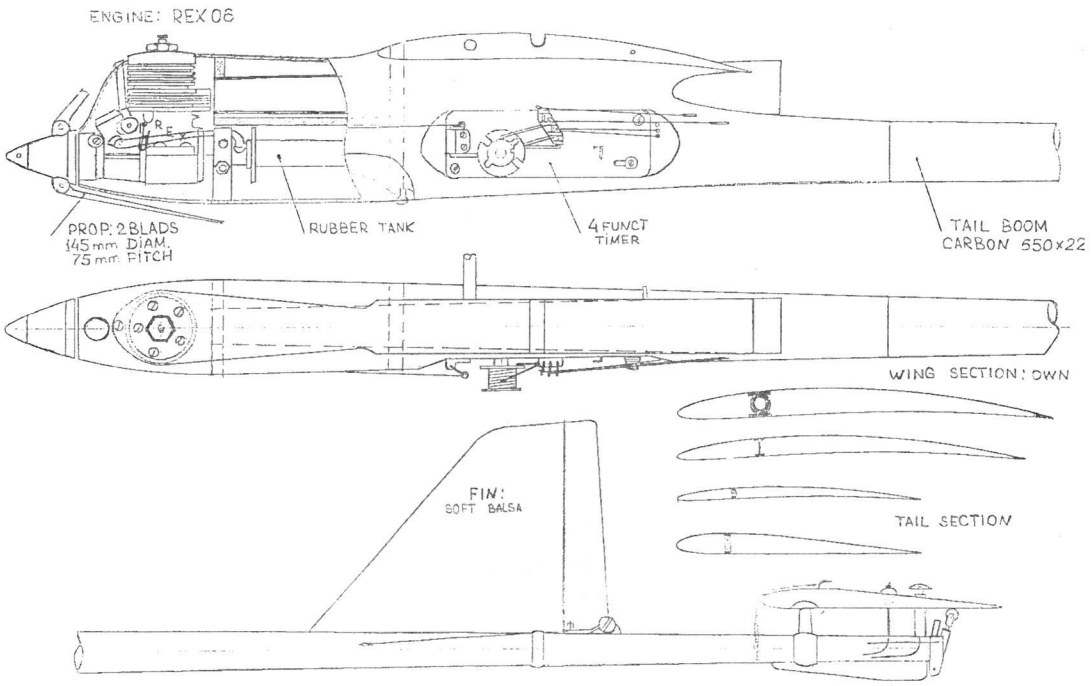
wing	54.20
tail	4.72
prop+bobbin	51.93
tube	70.84
boom	14.02
TOTAL	195.71

(just about right for 97 with a gram or so extra)

Model used in 96:
Holiday on Ice flyoff 378sec, 11th
W.Classic USA rounds+FO 5th
rounds 1&2 first trials 96 2nd
Flyoff second trials 96 1st

Head Beagle Mk.26
F1B by Russell Peers

FFn Scale 1:6 All dimensions mm



F1J
by Alexander Maximov
Details shown half-size

NOTICEBOARD

ABC FREE FLIGHT SUPPLIES. Jos Melis announces that his new catalogue for 1997 is now available. This includes the latest "electronic" models produced by Victor Stamov and M&K. Also it includes the F1J production of Alexander Maximov shown in the plan and details on this page and the following page. A complete F1J model ready to fly costs about US $700 plus shipping, which is estimated at $40 for insured airmail to UK for example. Builders of models are also supported with individual F1J items available including the Rex engine, pan, carbon tailboom, wing-joiner, set of wing spars, D-box shells, set of trailing edges, and a folding double prop 145 x 75. Please note Jos Melis has a new phone/fax number and e-mail address:

Jos Melis, Winterbeekstraat 1, 3730 Hoeselt, Belgium,
tel / fax: +32-089-514601
e-mail: Jos.Melis@ping.be.

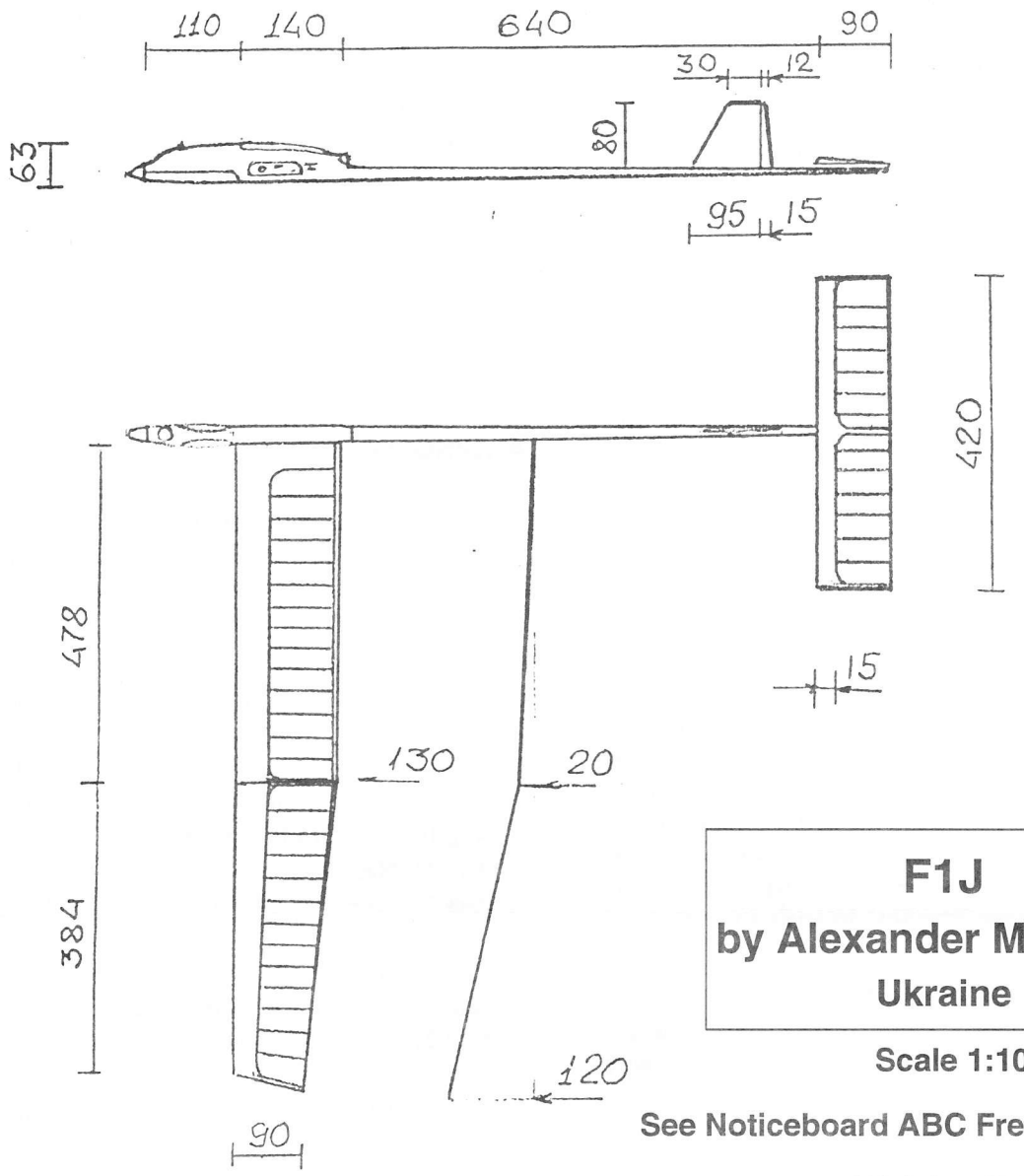
WOODHOUSE FREE FLIGHT SUPPLIES are described in a new catalogue just issued, bigger than ever. The headings include covering materials, hi-tech materials, adhesives, rubber, accessories for rubber, glider and power, timers, electric power, tools, retrieval systems, and plans - note that the latter include full size plans of Alexander Andrjukov's AA30 and AA31 F1Bs (ie the standard size and the big one) at £7 each, post free. Contact: Michael Woodhouse, 12 Marston Lane, Eaton, Norwich, Norfolk NR4 6LZ. Send an SAE with 31p stamp for a copy of the catalogue.

W-HOBBY supply a large range of F1A, F1B, and F1C complete models, components and accessories. n now be contacted by E-mail at the address:

w-hobby@siauliai.omnitel.net

This can be useful for requesting information or placing an order, since they operate a pay after delivery system. If you rely on older means of communication you can still contact W-Hobby (Vidas Nikolajevas) at:

Vilniaus 237-24, 5400 Shiauliai, Lithuania
tel/fax +370 149 0011.



F1J

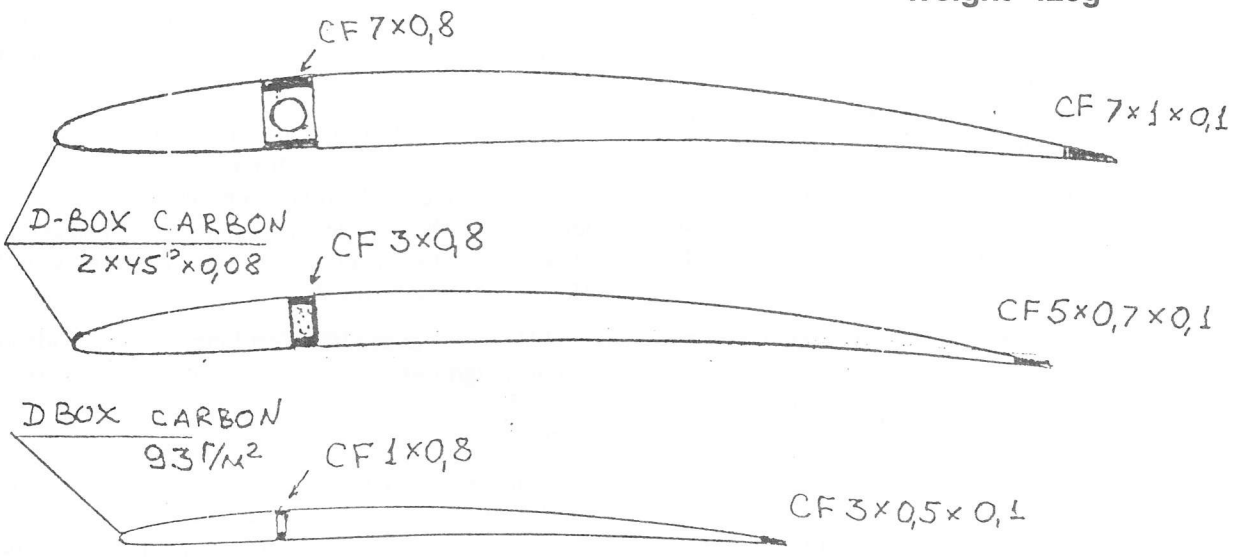
by Alexander Maximov

Ukraine

Scale 1:10

See Noticeboard ABC Free Flight Supplies

Weight 420g



RONYTUBE: The current range and price list for tubes available from Ron Pollard is given below. Note that the increased prices which are shown apply from Feb 1st.

GLASS FIBRE TUBES

Diameter:	front - rear	Length	Wt	
A2 'standard size'	13.5 - 5.5	1050	30g	£8.80
A2 'Tchop' size	17.5 - 10	950	21g	£8.50
A1 'lightweight'	10 - 3	915	10g	£3.50
HLG size	6 - 1.5	510	5g	£2.00
RC Glider / F1C	26 - 19	915	58g	£11.00

COMPOSITE TUBES

These tubes are a mixture of carbon and glass fibre and are 2.5 times stiffer than glass fibre only.

A2 'standard size'	13.5 - 5.5	1050	32g	£11.50
A2 'Tchop' size	17.5 - 10	950	23g	£12.00
A1 size	11.2 - 5	800	9g	£8.50
HLG size/CdH	7 - 2.5	610	4g	£5.50
Wake motor tube	30 - 28.5	610	28g	£10.50
Wake motor tube	32 - 30.5	610	30g	£11.00
CdH motor tube	24	300	11g	£5.30
CdH motor tube	20.5	300	9g	£4.50

All tubes can be rubbed down for up to a 25% weight reduction. All dimensions are in mm and the prices are per tube, to which postage should be added. In the UK this is £3.80 for any number of A2 tubes, £0.60 for HLG tubes, £1.50 for Wake or A1, £1.80 for RC glider/F1C tubes. Overseas readers please ask for a postage quotation. Contact Ronytube 23 Ivy Road, Walkerville, Newcastle upon Tyne NE6 4PU, tel 0191 2623735.

FALCONS GALA LEAGUE 1997

Falcons League 1997 qualifying events are: Crookham Gala, Pannett Meeting, Odiham Spring Gala, Woodbury Weekend (3 days), Paisley Trophy, Oxford Gala (2 days), Scottish Nationals (2 Days), Cleemac Knavesmire Meeting, Morley Meeting, Ashdown Gala, Northern Area Summer Gala, SAM Eurochamps Meeting (Vintage Wakefield classes ONLY - Pre 4oz, 4oz, 8oz - other events do NOT qualify), Brumfly, Steel Trophy and Cranfield Classic meeting (2 days), Croydon Wakefield Day, Brumie F1E meeting, Midland Fun Fly, Timperly Gala, Falcons Gala, Coupe 97.

A full copy of the rules (no change from 1996) is available by sending an SAE to Russell Peers at: 487 Crewe Road, Wells Green, Wistaston, Crewe, Cheshire CW2 6QD.

N. B. Would organisers of the above events please note that their events must be properly advertised to qualify - i.e. a list of classes to be flown and a contact name with address and/or telephone number must be shown. Such adverts must appear before the event is flown, in either Aeromodeller, Free Flight News or BMFA News.

Would organisers please also ensure that results are sent as soon as possible to Trevor Grey, 21 Claremont Road, Tunbridge Wells, Kent TN1 1SY.

COUPE CHAMPIONSHIP 1996

The positions in the 1996 Coupe Championship were given last month, here are the League positions mentioned last month, these being the aggregate scores over the last three years. The figures in brackets denote the placing in that year.

		1994	1995	1996	Total
1	A Ball	36 (1)	38 (1)	15 (5)	88
2	I Davitt	28 (2)	18 (4)	7 (13)	53
3	D Hipperson	9 (6)	13 (7)	29 (2)	51
4	J O'Donnell	-	20 (2)	28 (3)	48
5=	D Davitt	8 (1)	3 (20)	31 (1)	42
5=	G Shacklock	9 (7)	19 (3)	14 (5)	42

CARDINGTON 1997

The provisional programme of BMFA indoor meetings to be held at Cardington is as follows:

April 13	Limited Penny Plane and index
April 27	EZB and index
May 4	Living room stick and index
May 18	EZB and index
June 15	Limited Pennyplane and index
June 29	EZB and index
July 13	Nocal (profile scale) and index
July 27	Limited Pennyplane and index
Aug 10	EZB and index
Aug 23 (Nats)	Practice Day
Aug 24 (Nats)	EZB and Limited Penny Plane Index (over 2 days)
Aug 25 (Nats)	F1D and LRS (1st team Trials)
Sept 7	F1D and index (2nd Team Trials)
Sept 21	EZB and index (reserve date for Team Trials)

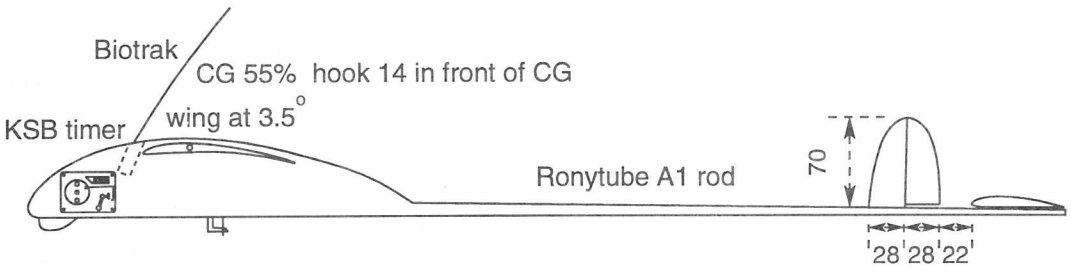
There will be BMFA plaques/certificates for nominated and Index events and trophies for Nats events.

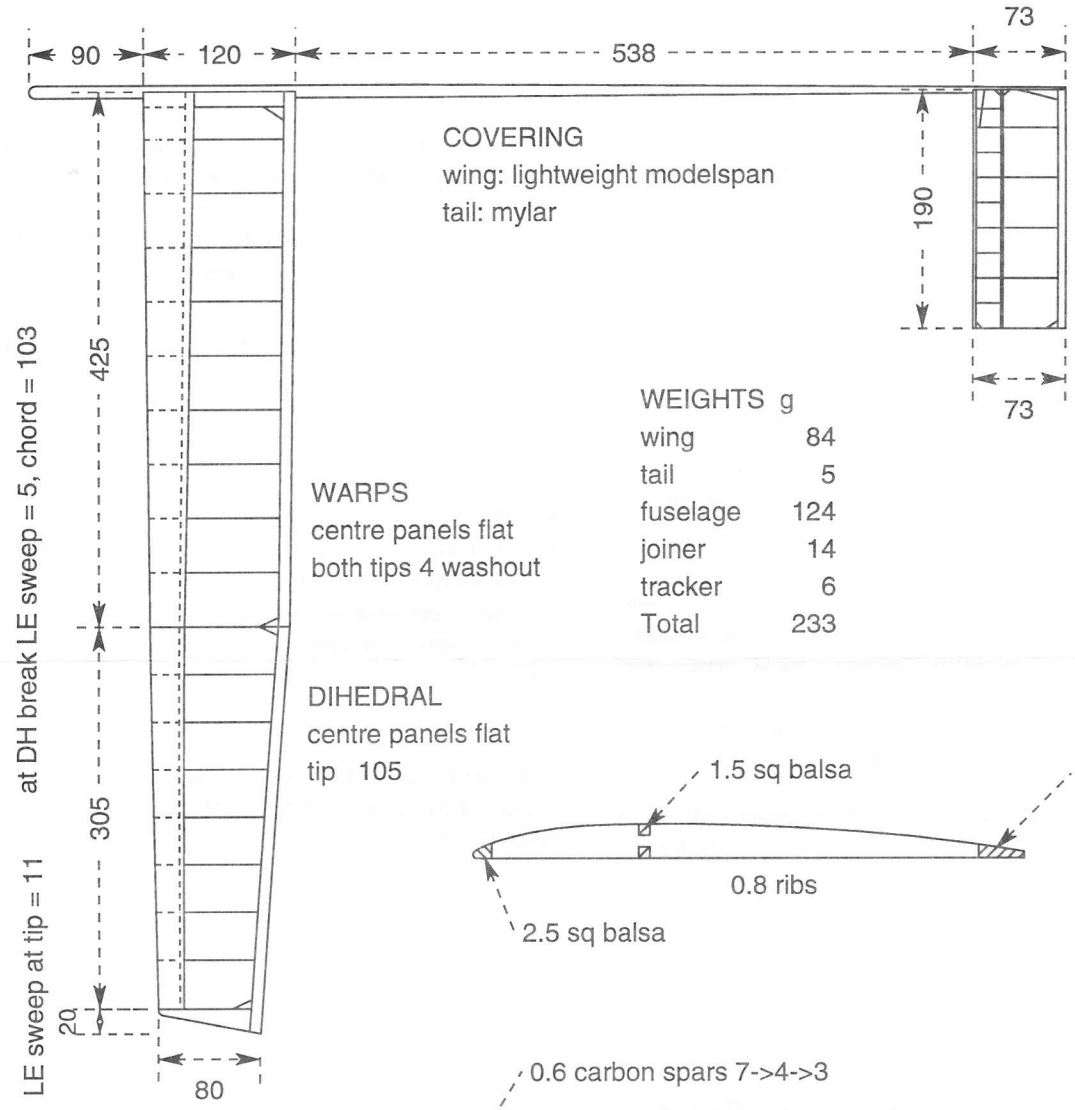
EZB events will be run to 1.2g F1L rules. All EZB and Limited Penny Plane events (except Nats) will be handicapped with a simple time penalty based on the flyer's previous best time (like golf!).

For those new to Cardington, it is situated on the A600 about 3 miles south of Bedford (drive in through the gate next to the field, go between the hangars and turn left to reach the vehicle entrance to No.1 Hangar). We close the big door at 11am so if you want to park in the Hangar get there before then.

No.1 Hangar is huge (1000 feet long, 300 feet wide and 150 feet high) so there is plenty of room for everyone to fly, and fun flyers are most welcome if care is taken, but no power models please.

Do remember to ring Laurie Barr (tel 01628 487544) on the Friday or Saturday before a meeting to confirm the meeting is on (on rare occasions we have to cancel because of operations in the Hangar).





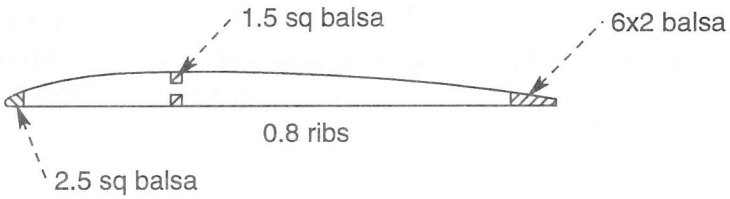
COVERING
wing: lightweight modelspan
tail: mylar

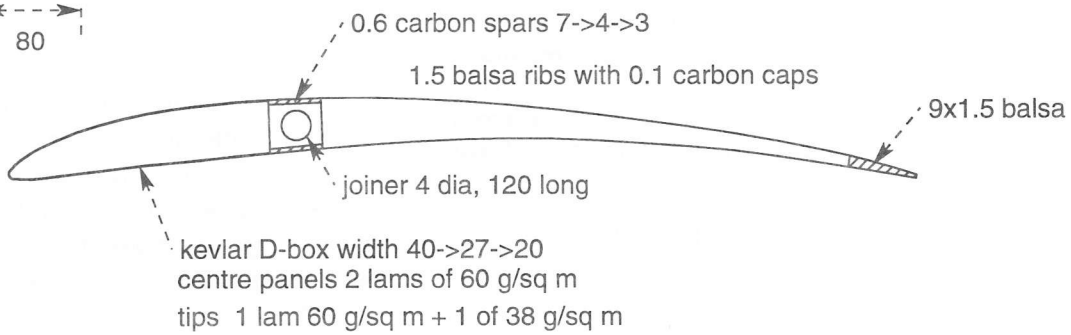
WEIGHTS g

wing	84
tail	5
fuselage	124
joiner	14
tracker	6
Total	233

WARPS
centre panels flat
both tips 4 washout

DIHEDRAL
centre panels flat
tip 105





kevlar D-box width 40->27->20
centre panels 2 lams of 60 g/sq m
tips 1 lam 60 g/sq m + 1 of 38 g/sq m

Models 10 and 11 are the same as 9 except wing panel lengths increased to 460 and 310 and chords reduced to 112 / 100 / 72

A1 No.9
F1H by John Cooper

FFn Scale 1:6 All dimensions mm

UK COMPETITION NEWS

SCOTTISH EVENTS in 1997 are as follows:

May 11 Paisley Trophy. All-in open

June 28-29 Scottish Nationals
Saturday F1A, F1B, vintage
Sunday: Open glider, rubber, power, mini.

Sept 6-7 Saturday: Steel Cup combined F1A/B;
Sunday: Cranfield Classic and Caprice contest.

All events are at Newbigging and the contact is Jim Arnott, "Downside", Farm Road, Hill of Beath, Fife KY4 8DZ, tel 01383 510279.

CHURCH FENTON AND FINNINGLEY. Dennis Davitt writes: "On behalf of the BMFA Northern Area I am processing licences for the following dates:

Finningley:

March 2	First area
March 16	Vintage and Pannet
April 6	Second Area

Church Fenton:

June 15	Fourth area
June 22	spare day
July 13	Morley 'Heath Common' event
July 27	probable 'Knavesmire' event
August 24	spare day

Also, 19 consecutive Wednesday evenings commencing April 30 at Church Fenton for sport flying and trimming, subject to RAF short term requirements. Please check availability nearer each date. For Finningley, I am in correspondence with Doncaster Council concerning a noise complaint, so I am asking all power flyers to be extra careful."

VINTAGE PANNETT AND KAY meeting will be at Finningley on March 16th. Events are open glider for Jack Kay Shield; open power and SLOP for Tony Pannett Bowl runs O/P 7 sec, SLOP glow 10 sec, SLOP diesel 12 sec; vintage for Topcliffe Eagle (models subject to random scrutiny to BMFA rules, please bring means of authentication.); combined F1G, F1H, F1J, CO2, E30, P30, mini vintage, motor heaters permitted. Events are 3 flights except 4 for combined mini. Start at 10am, no rounds or lines. Access requires registration on the list held by Dennis Davitt (tel 0113 2675433). Note the noise sensitivity - please do not run motors unless you intend to fly the model. Contact: Ian Davitt, 01943 872426.

WOODBURY WEEKEND GALA will be held on the early May bank holiday weekend, May 3rd and 4th.

Caravan accommodation and camping facilities will be available at the Castle Brake Holiday Park which is adjacent to the flying site or, a short drive away at the beach, at Ladram Bay Holiday Park. These facilities are offered at special rates to applicants using the special reservation forms: Castle Brake Holiday Park 01395 232431 (already fully booked), Ladram Bay Caravan Park 01395 568398. Ladram Bay has a site shop and pub, but entertainment and pool facilities are not available this early in the season. Woodbury is in the midst of a very popular holiday area which offers many family attractions within easy reach. Presentation of prizes for Saturday's and Sunday's events will be held on the Sunday evening at 21.00, a pre-paid supper will be served to those requiring it.

Entry fees for all the events will be advised on the day; there will be no re-entry. Maximum to be decided on the day. Open comps flown to BMFA rules.

Saturday events start at 10.50 with competitors and timekeepers briefing followed by competition start at 11.00. Nostalgia event 3 flights for designs published between 1/1/1951 and 31/12/1960 for classes: open rubber (no motor heaters), open glider (300ft towline), open power (engines from same period or reproduction type 15 sec run, modern engines 12 sec run). Contests finish at 17.00 with flyoffs from 17.15. Also on Saturday (11.00 to 17.00) is vintage precision to South Bristol rules.

On Saturday evening there are the Champagne flyoffs, each in 15 min periods starting at 18.00 vintage rubber, 18.30 combined open+slow open power, 19.00 open rubber, 19.30 open glider and mini vintage rubber. On entering, competitors must nominate a timekeeper.

Sunday events will all be flown to three flights, start 10.00, finish 17.45, flyoffs from 18.00: open glider (W J Harris memorial cup), open rubber (Woodbury trophy), combined open+slow open power (Challenge cup for petrol models), vintage duration R/P/G (Duration cup), mini vintage rubber (trophy to be presented).

Contact George Fuller, tel 01404 841 609.

NOSTALGIA WEEKEND. Derek Ridley has supplied details of this event at Middle Wallop on May 31st and June 1st. The Saturday is for fun flying and trimming and on Sunday there are competitions as follows:

Open power (including Dixielander special prize). Any power design kitted or published before December 1960. No VIT or AR, unrestricted engine. Motor run 10 sec glow, 12 sec diesel.

Open rubber (including Wakefield). Any rubber design kitted or published before December 1960.

Open glider. Any glider design kitted or published before December 1960. Towline 50m, auto-rudder can be fitted if not shown on original.

Sweepette. Any Lee Hines Sweepette designs. DT allowed, best 5 from 7 flights.

Note that the cut-off date has been brought forward to the end of 1960. Contact Derek Ridley on 01276 476436.

BOURNEMOUTH RALLY will be at Middle Wallop on September 27th and 28th. The format will be similar to 1996 with the accent on fun flying, plus events including the Southern Counties Challenge Cup competition for petrol-engined models of pre-1951 design. Contact: W Clay, "Pine Trees", 6 St Leonards Way, Ashley Heath, Ringwood, Hants BH24 2HS.