

Scale Soaring UK

The forum for all your modelling requirements relating to scale gliders
<https://scalesoaring.co.uk/phpBB3/>

Ka6e build

<https://scalesoaring.co.uk/phpBB3/viewtopic.php?f=12&t=944>

Re: Ka6e build

by **Dave Whittaker**

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Posted: **07 Sep 2016, 21:03**

Thanks Jilles thats very helpful going to be using 1.5 balsa

Dave

Re: Ka6e build

by **Jilles**

Posted: **07 Sep 2016, 07:59**

Some comments on the last picture you sent of the wing construction

The purpose of the spruce stringers from the root to start of aileron on either side of the main spar is to support balsa but joints of the 1.5mm balsa planking. 100 mm wide balsa sheets can be used. The NZ built model used 0.4mm plywood planking. Much stronger and about 300 gram heavier for both wing together. It is a cost issue

If balsa planking is used I fitted foam blocks in the D-box at those area's where you will handle the wings

I made a Foam cutter for this purposed. the resistor wire spans 300 mm in a timber frame, the spring is used to keep the wire under tension

A 3S-2200 lipo condemned for flying heats the wire. the black button on the lh of picture 3434 is the switch

picture 3435 shows a little jig to cut square blocks to size to fit between ribs and spars

picture 3441 shows foam blocks fitted in the wing with PVA glue

picture 3442 blocks are cut using the ribs as guide

picture 3447 finished blocks

You will not put your thumbs through the balsa where foam is fitted

In case the wing is planked with 0.4mm ply the foam is not required





Re: Ka6e build

by **Dave Whittaker**

Posted: **06 Sep 2016, 19:44**

and because my picture did not up load i will try again

[URL=[http://s756.photobucket.com/user/f ...](http://s756.photobucket.com/user/f...) .jpg[/img]][/url]

Re: Ka6e build

by **Dave Whittaker**

Posted: **06 Sep 2016, 19:38**

thanks did not realize it could be as simple as that

Dave

Re: Ka6e build

by **Jilles**

Posted: **06 Sep 2016, 00:09**

Hi Dave

The Ka6e of myself and other here and in New Zealand have a 25 mm tube joiner. Regardless if you use a tube or blades the wings can be retained the same. We fitted little hooks in the wings and use cable ties or elastic bands. On the attached picture you see the cable ties option. These can only be used once. Elastic bands will work just as fine.



Re: Ka6e build

by **Dave Whittaker**

Posted: **04 Sep 2016, 21:49**

Jilles what method would you recommend to hold the wings to the fuselage do you put a bolt through the wing joiner blades ect

Dave

Re: Ka6e build

by **Dave Whittaker**

Posted: **04 Sep 2016, 21:46**

Well finally more less finished the fuselage and made a start on one of the wings.

Re: Ka6e build

by **Dave Whittaker**

Posted: **02 Aug 2016, 11:05**

going to use the dope only method for the tail plane and see how it goes

Dave

Re: Ka6e build

by **Jilles**

Posted: **02 Aug 2016, 03:23**

Hi for my Ka6E I used Icarex what is used for kites and ultra lights

It is very light, strong and cheap , available at any length from 1.4m wide rolls. No need for dope it shrinks with the heat gun like normal film.

It will take any paint

Alternative is Koverall fabric, also needs heat sensitive glue and several layers of dope and heavier overall

Would like to know what Diatex is

cheers

Jilles

Re: Ka6e build

by **RobbieB**

Posted: **02 Aug 2016, 00:12**

Dave,

If your going for Diatex from Skycraft you want the lightest grade they do - 1000 I think it is; the lightest grade anyway.

It's nothing like as quick as Solartex but cheaper and a better job all round in the long run.

Re: Ka6e build

by **Dave Whittaker**

Posted: **01 Aug 2016, 17:46**

Thanks RobbieB think i am going to go down the Diatex path, did not realize you can use the same method and apply it the same as we do on the full size gliders, hopefully my dad has some dope kicking around from the last glider covering he did. which should keep the cost down.

Dave

Re: Ka6e build

by **RobbieB**

Posted: **01 Aug 2016, 17:19**

Dave,

Have a look at: [http://scalesoaring.co.uk/phpBB3/viewto ... f=7&t=1045](http://scalesoaring.co.uk/phpBB3/viewto...f=7&t=1045)

Additional info there about preparation before painting.

Re: Ka6e build

by **Dave Whittaker**

Posted: **01 Aug 2016, 17:16**

Can this be painted over

Re: Ka6e build

by **Dave Whittaker**

Posted: **01 Aug 2016, 16:31**

Ok people question time whats the a good covering cloth and where the best place to get it from have the rudder and tail plane to cover so need to get this sorted Thanks

Dave

Re: Ka6e build

by **Dave Whittaker**

Posted: **31 Jul 2016, 21:32**

at last i have something that look like a ka6 fuse and hopefully make some good progress over the next couple of week i am off work. 😄😄😄

Dave



Re: Ka6e build

by **Dave Whittaker**

Posted: **19 Jun 2016, 20:51**

well not much to report at the moment got to the planking stage and works gone manic hopefully have a few days rained off soon and make some progress

Dave

Re: Ka6e build

by **Dave Whittaker**

Posted: **03 Jun 2016, 02:41**

Thanks that's perfect will do the same

Dave

Re: Ka6e build

by **Jilles**

Posted: **03 Jun 2016, 02:17**

For access I did located the rudder and elevator servo's just behind the cockpit opening (former F6)

they were located at a different height to prevent the pull-pull cables and elevator push rod interfering.

See attached pictures. It will also reduce the required lead ballast in the nose, You will need a lot of that

All three Ka6e models that were built and I have seen have this set up and are around the 8kg flying weight

As push rod to the elevator I used a 6 mm (1/4") diameter spruce dowel with 4-40 rods ends to take a required swivel head or clevis at each end. To prevent the rod from splitting a brass tube was epoxied to each end. half way in the fuse the push rod is supported in one of the formers sliding through a brass tube

This prevents bending the rod in flight. With the pendulum elevator the slightest movement will be noticed in flight. Also for this reason do not allow any play between the various mechanical items

Before planking the fuse with plywood make sure rudder and elevator mechanisms move freely inside the fuse

Once planked you cannot reach these items.



Re: Ka6e build

by **Dave Whittaker**

Posted: **31 May 2016, 19:08**

thanks Jilles i have put the tubes in but used brass tubes of a similar size, Jilles what do you think about putting the rudder and elevator servos in the fuselage at the rear near the fin or would this cause problems with the C of G any thoughts would be appreciated.

Dave

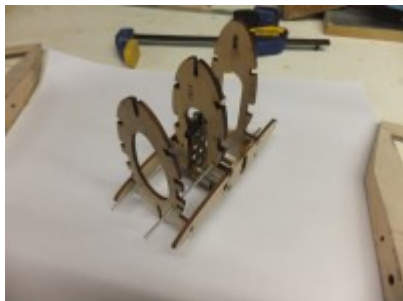
Re: Ka6e build

by **Jilles**

Posted: **31 May 2016, 02:12**

The Pull Pull cables for the rudder has to come out of the back of the Elevator stumps to the side of the fuselage. On attached picture you can see that I used 3/32"x0.014 aluminium tube from K&S (part 8127) it is bend as shown to prevent interference with the elevator hinging parts. The former should have the holes for tube support already laser cut.

I used plastic coated 30lbs fishing line. At the rudder end not clevises were use, just a aluminium boss with the line wrapped around fitted with a M2 bolt through the double rudder horn.



Re: Ka6e build

by **Dave Whittaker**

Posted: **30 May 2016, 22:59**

not much progress this lately but at least there has been progress



Re: Ka6e build

by **Dave Whittaker**

Posted: **29 May 2016, 18:42**

Thanks Barry

Re: Ka6e build

by **Barry_Cole**

Posted: **29 May 2016, 17:46**

These are good for closed loop. Made for the job. Tubes, line and all the end fittings. available

from your local model shop, or on line.

[http://www.ripmax.com/Item.aspx?ItemID= ... =125-30-25](http://www.ripmax.com/Item.aspx?ItemID=...=125-30-25)

The only thing I am not keen on are the crimps. I find that if you crimp then tight enough to stop them slipping, you cut through the line.

I just wrap the line round itself a few times, and apply a little cyno. I little heat shrink over the top tidies it up.



BC

Re: Ka6e build

by **Dave Whittaker**

Posted: **29 May 2016, 17:18**

That's good I have some 40lb in my tackle box some where

Re: Ka6e build

by **RobbieB**

Posted: **29 May 2016, 17:12**

Dave,

Nylon covered Pike trace from fishing tackle shops is fine although that is being phased out now in favour of kevlar line. Either way, 30lb will be fine up 1:3.5 - handles the big rudder on my Skylark just fine.

Be warned though, the 30lb kevlar looks like cotton but it will cheese cutter your fingers before it will break.

Re: Ka6e build

by **Dave Whittaker**

Posted: **29 May 2016, 16:41**

Well managed to get some wing jouners which was good.

Now time to pick you experience building brains, what would you recommend for rudder cables and for hinges on the rudder.

Will post some pictures of build later

Dave

Re: Ka6e build

by **Dave Whittaker**

Posted: **17 May 2016, 20:25**

Thanks Cliff

Re: Ka6e build

by **Dave Whittaker**

Posted: **17 May 2016, 19:27**

hi all

Does any one know of another supplyer of graupner wing joiners it appers that glideruk are out of stock

Re: Ka6e build

by **Dave Whittaker**

Posted: **16 May 2016, 13:00**

Cliff I am glad I chose this one then it is going together Easier than I thought it would big thumbs up to the designer

Re: Ka6e build

by **Dave Whittaker**

Posted: **16 May 2016, 09:31**

Jilles had a bit of a problem with f6 not sitting down on the bottom former thanks for the advice I have been checking with square and checking again so hope it will not cause if dose I do have a chainsaw for any feterling later lol 😊

Re: Ka6e build

by **Jilles**

Posted: **16 May 2016, 07:58**

Make sure at this stage that the formers are square to the K1 parts at the bottom. Lot of trouble later if not checked now

Re: Ka6e build

by **Dave Whittaker**

Posted: **16 May 2016, 00:38**

Thanks for the advice on the glue i have decided to use both. Also thanks to the people thats suggested the bridson Jig it has made setting up the fuse very easy.

Well had some time this afternoon to start on the ka6 got the front of the fuse all guled up and the rest set up ready for stringers.



Re: Ka6e build

by **Tom Pack**

Posted: **12 May 2016, 06:18**

The Gorilla Glue in question is a white aliphatic resin glue and works much better then regular aliphatic resin glues that I have used.

It will stick on contact and holds quite well, it is all I use at work as a "General Contractor" Super stuff!

It also sands just as well as the other brands.

Re: Ka6e build

by **Peter Balcombe**

Posted: **11 May 2016, 20:46**

Dave,

I have built a Bocian, 2 Olympias and am currently in the process of building a 1/3 scale T21 from Cliffs kits and have always used Aliphatic on most of the wood joints without any problem.

I haven't tried gorilla glue, but the aliphatic is easy to sand back as it dries nice & hard.

It grabs quite well in an hour or so.

I don't even bother to remove the laser cutting burn deposits.

Pat Teakle has just flown his recently completed K6e and is over the moon with it. You won't be disappointed.

Re: Ka6e build

by **Mick Tomlin**

Posted: **11 May 2016, 20:40**

There is no gap filling needed with the kit so go the Aliphatic.

Mick

Ka6e build

by **Dave Whittaker**

Posted: **11 May 2016, 20:02**

I have recently taken delivery of a lazer cut kit from Cliff, which I must say was very well packed and sorted in to bags wing left, wing right, tail ect.

this alone will cut the build time in half, no more hours looking through the pile of cut parts in a box, so thanks Clif for the good sevice.



So on with the build well almost would like your opinion on the two glues in the picture which one would you go for people



Thanks Dave

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