

Scale Soaring UK

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

1\3 dg 800

<https://scalesoaring.co.uk/phpBB3/viewtopic.php?f=12&t=521>

Re: 1\3 dg 800

by **RobbieB**

Page 1 of 1

Posted: **26 Apr 2017, 16:57**

Jolly Roger wrote:

Well done you! I echo everyone else's compliments. You seem to have a boundless enthusiasm that powers your projects at superhuman pace, along with refreshingly simple, original and effective solutions to practical problems.

Rog

Read as: a very understanding other half.

Well done Roo, on both counts.....

Re: 1\3 dg 800

by **Jolly Roger**

Posted: **26 Apr 2017, 12:10**

Well done you! I echo everyone else's compliments. You seem to have a boundless enthusiasm that powers your projects at superhuman pace, along with refreshingly simple, original and effective solutions to practical problems.

Looking forward to seeing what you come up with next.

Rog

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **26 Apr 2017, 11:11**

Thanks guys for the kind words and encouragement. Over the last few weeks I was very demotivated and only last week I said I would never build a 1/3 glass glider again. But I am now so pleased with the dg it was worth it in the end. I now think I need a bigger glider 😊 maybe. So watch this space. 😊 :

Re: 1\3 dg 800

by **catwok**

Posted: **24 Apr 2017, 22:33**

I think if the Rooster got his hands on my DG, it would be in the air by next weekend! He builds models from scratch quicker than most can get an ARTF in the air!

It would be good to see you all up the Mynd this year... I'm determined to get my old man up there again.

Re: 1\3 dg 800

by **Simon WS**

Posted: **24 Apr 2017, 14:40**

Congrats from me too Roo and I'm also sorry to have missed the maiden.

As i was making miserable progress on completing Terry/Rick's DG i passed it over to Paul

Watkins's capable hands yesterday so that should be in the air soon. I'm hoping to go to the Long Mynd event in July too so hopefully see you there?

Simon

Re: 1\3 dg 800

by **terry white**

Posted: **24 Apr 2017, 12:19**

Hi Roo, congratulations mate, looks fabulous , very well done, an inspiration to us all. just a shame that I missed the maiden on Saturday, I was however told all about it on the Sunday. I Also missed meeting Mrs Roo I understand.

Now before you finish the next one, the ASW27? can you please rest a while to give us mere mortals a chance to play catch up? 😊

Hope to see you at the Wolves meet at the Mynd in July. Kind regards Terry

Re: 1\3 dg 800

by **Mark Richards**

Posted: **24 Apr 2017, 11:48**

Hi Roo,

Congratulations on the successful maiden.

Enjoyed following your build thread and nice to see it all worked out so well.

Re: 1\3 dg 800

by **chris williams**

Posted: **24 Apr 2017, 11:36**

Here you go,



Roo... 😊

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **24 Apr 2017, 08:28**

The dg was at last maiden at middle wallop on sat. I think this is my best buld so far and it fly's perfectly. Well pleased 😊😊😊😊 .bad landing at the end of the day only a split wheel so will be back ready soon. Sorry no pictures.

Re: 1\3 dg 800

by **Phill Tadman**

Posted: **30 Mar 2017, 22:18**

Looking forward to Middle Wallop and seeing this fly Roo!

Phill

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **21 Mar 2017, 16:25**

FINISHED. After about 16 months building my dg 800 @ 1/3 scale and @ 6 meters is now finished. I think the cost was appx £450 .weight is about 14 kg. I have some small bits to do like seatbelts but it is now ready for middle w for the Maiden.



I will post better pics some time soon.

Re: 1\3 dg 800

by **terry white**

Posted: **19 Mar 2017, 18:19**

Ready for Middle Wallop then Roo!.It will be great to see it in the flesh. Terry.

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **19 Mar 2017, 17:45**

Wing tips made and I have also fitted the radio.



Hopefully will be finished bay the end of this week.

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **23 Feb 2017, 11:31**

Cockpit now finished just needs seatbelts.



Ready to start wing tips.

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **21 Feb 2017, 17:39**

Cockpit tray and mini



Roo

Re: 1\3 dg 800by **steve dowell**Posted: **19 Feb 2017, 00:57**

keep it up looks very nice m8

Re: 1\3 dg 800by **terry white**Posted: **16 Feb 2017, 16:44**

And me...

Re: 1\3 dg 800by **Simon WS**Posted: **16 Feb 2017, 16:17**

You are putting me to shame....

Re: 1\3 dg 800by **roo Hawkins**Posted: **16 Feb 2017, 14:53**

Thanks Phil and Simon I riged it up today to see if can motivate me.



Console is now made .

Re: 1\3 dg 800by **Phill Tadman**Posted: **06 Feb 2017, 23:49**

Keep going Roo!

Phill

Re: 1\3 dg 800by **Simon WS**Posted: **06 Feb 2017, 21:57**

You are doing amazingly well Roo - keep going! I think it is only your own incredible build rate standards that is getting you down....

Having said that I can barely set foot in the workshop I am so demotivated!...

Simon

Re: 1\3 dg 800by **roo Hawkins**Posted: **06 Feb 2017, 17:23**

I have now started to fit servos . I now see an end to this build, but I am feeling really demotivated with it at the moment.

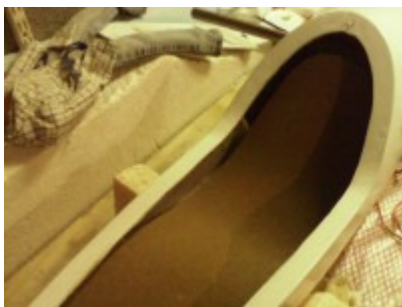


Maybe it was getting back from 24 deg on holiday back to cold and rain and the news. At least spring is coming.

Re: 1\3 dg 800by **roo Hawkins**Posted: **21 Jan 2017, 22:43**

Rudder now fixed and started canopy tray made out of





PVC foam but then will be glassed.

Re: 1\3 dg 800

by **Simon WS**

Posted: **07 Jan 2017, 21:37**

Great stuff Roo. FYI my DG build has completely stalled because my workshop roof needed replacing urgently and it has turned into a huge job - 75 sq metres starts getting expensive!

Simon

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **07 Jan 2017, 18:39**

Hi have started to make the roof box to fit this glider.



A 3 meter box was a bit expensive to buy so make one.

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **04 Jan 2017, 15:00**

I have now finished the painting of the fuz and covered the rudder.



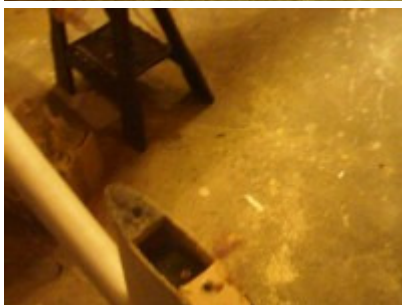
Now ready to start putting together.

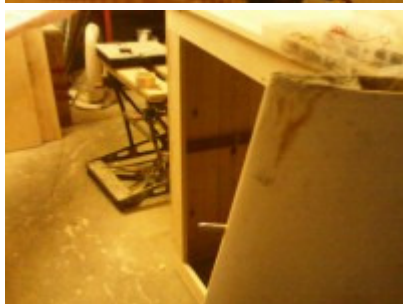
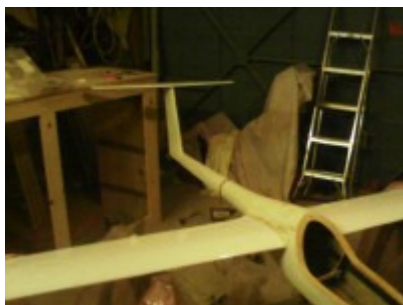
Re: 1\3 dg 800

by **roo Hawkins**

Posted: **19 Dec 2016, 16:35**

Tail covered and fixed.





Air speed sensor mounted and elevator servo fixed in 9 kg.

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **30 Nov 2016, 12:08**



Tail nearly finished for covering

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **27 Nov 2016, 17:25**

Not much work done this week





but hopefully tail will be done next week.

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **20 Nov 2016, 14:54**

The final part to now construct



the tail bits 😄😄😄😄😄

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **16 Nov 2016, 13:06**

canopy



cut and fixed

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **15 Nov 2016, 14:00**

Canopy frame painted with velstone.



Lead cast for nose 1.2 kg.

Re: 1\3 dg 800

by **roo Hawkins**

Posted: **12 Nov 2016, 16:25**

Started to fit retract I made last year.



Canopy catch will be hidden by a solar panel

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **08 Nov 2016, 10:52**

Apart from the servos



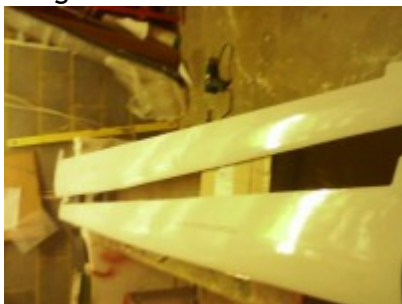
the wings are now finished.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **05 Nov 2016, 18:57**

Wing covered with



vinyl today

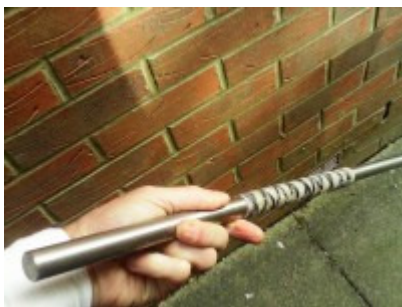
Re: 1\3 dg 808

by **roo Hawkins**

Posted: **26 Oct 2016, 13:45**

I have swapped the carbon +steel joiner for a hi carbon steel one, as I found that there was too much bend in it.

Three times the weight though better safe than sorry.



I have carboned the joiner tube in the fuz.

Re: 1\3 dg 808

by **Simon WS**

Posted: **25 Oct 2016, 11:24**

Your speed and progress is amazing Roo!

Hey Barry, it looks like i need to order a set of those DG graphics too!....

Simon

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **25 Oct 2016, 10:42**

Top model cz airbrakes now fitted plus servo wires.now going to use single servo on each surface. Wings filled with epoxy mico mix..





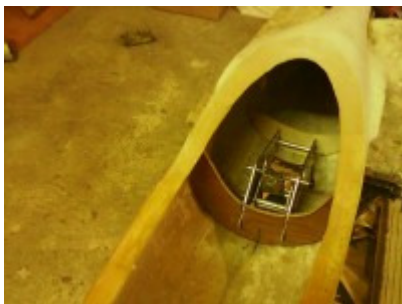
One final fill and sand and then cover with vinyl. Dg 800 decals made also by Barry C thanks.
ROO 😊

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **25 Sep 2016, 16:28**

PVC foam on frame.



Started the retract mounting .

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **22 Sep 2016, 16:57**

Started to make canopy frame. 1 layer of carbon then chopped glass and then 1 layer of carbon on top.





I left it till it went green then cut around with sharp knife. I will then fix PVC foam to it. The flapy bits have been glassed as well.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **19 Jul 2016, 16:41**

Canopy made



today

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **20 Jun 2016, 17:49**

Cut channels for 400 mm airbrakes .





metal rod for cutting servo wire channel.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **09 Jun 2016, 21:10**

The flappy bits have been capped with balsa. Now waiting for airbrakes to be delivered from Czech Republic .I then can started with the glassing and finishing the wings ready for covering at a later date.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **19 May 2016, 16:32**

aileron and flaps



cut out

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **19 Apr 2016, 15:17**

Carbon ud tape added to the top of spar. It is now a sandwich of carbon tow spar with a 4 mm wood cap and then carbon tape on top.I am surprised at how much stronger it is by adding the tape on top.





Hopefully it will be strong enough. the wings are now veneered . there is also glass reinforcement around the roots.

Re: 1\3 dg 808

by **Barry_Cole**

Posted: **29 Mar 2016, 17:42**

That's cheating Roo....



BC

Re: 1\3 dg 808

by **roo Hawkins**

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

Ok lads I made a mistake. I am glad I can make you laugh 😄😄 ROO 😄

Re: 1\3 dg 808

by **spike spencer**

Posted: **29 Mar 2016, 13:47**

Try this, Barry 😄

<http://www.theguardian.com/lifeandstyle> ... llen-skink

Not sure how good it is for filling the weave of glasscloth (but I have heard rumours).

Re: 1\3 dg 808

by **Barry_Cole**

Posted: **29 Mar 2016, 10:53**

There is nothing like a good skink.....



BC

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **29 Mar 2016, 10:08**

The roots and tips are finished now and now need to add carbon to the top of the spar and root

. but I am now thinking about skinning the wings in glass and veneer instead of just glass???

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **23 Mar 2016, 14:33**

First fit together to check



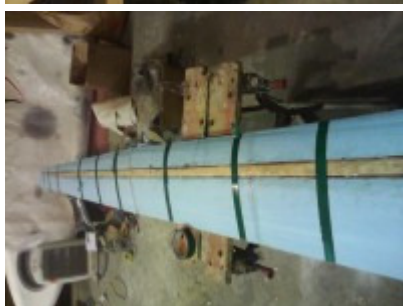
before adding ply roots and tips.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **22 Mar 2016, 14:18**

Fitted a 1/8 ply web in between the spars and then the carbon web.



The leading edge is then fixed.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **21 Mar 2016, 14:34**

Hi Paul the plans are made on a date projector. I am hoping to get all the main parts finished this year then complete it next year. ROO 😊

Re: 1\3 dg 808by **catwok**Posted: **20 Mar 2016, 19:11**

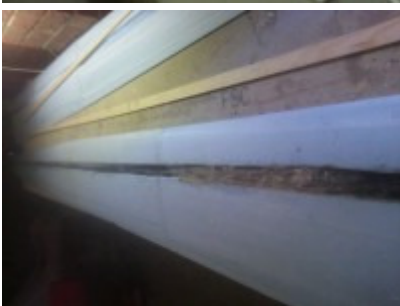
I thought you said this was going to be a slow build Roo! Did you do your usual projector plan?

Re: 1\3 dg 808by **roo Hawkins**Posted: **20 Mar 2016, 10:34**

Bottom spars are now finished. I now need to cut off the Leading Edge to add the web. I am now considering a carbon web instead of wood.?

Re: 1\3 dg 808by **roo Hawkins**Posted: **17 Mar 2016, 18:51**

Finished glassing the carbon top spars. 55x12k carbon tow for 3/4 length of wing and then out at the tip.



Then another 50 tows for 1/2 of the wing . the tapered wood spar cap is then added this will have carbon ud tape on top.

Re: 1\3 dg 808by **roo Hawkins**Posted: **16 Mar 2016, 18:47**

I have cut the top spar slots today. The spar will be lots of carbon tow with a tapered wood cap ..Then it will have 2 in ud carbon tape on top to make a sandwich . I will also add a web Will post some pics when I lay the carbon\ wood cap.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **15 Mar 2016, 17:48**

Wing panels joined started to



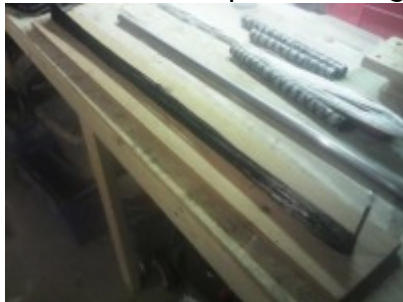
place wing joiners.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **01 Mar 2016, 18:14**

Carbon tow 12 k pulled through the



steel tubing



for wing joiner.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **25 Feb 2016, 19:16**

Hi Terry yes I did cut the wings myself. I cut them in smaller sections this time for more

accuracy. The aerofoil is HQ 12.5 /12 at the root and HQ 2.5/11 at the tip. I have added a small amount of washout to. I am not planing to finish it this year this is my biggest build so far and is pushing my limits. I have only been flying and building large gliders for 2 years so my flying needs to get better before I lob it off a hill. Building 5 gliders in 2 years I think I need to slow down a bit. If you get yours finished for next year we could maybe have a convention ??? 🤔🤔
ROO

Re: 1\3 dg 808

by **terry white**

Posted: **25 Feb 2016, 18:34**

Hi Roo, You will have your D.G. finished before mine and I started mine in September 1999. 🤔

Built a lot of others since then though. I will probably put an up-n-go in mine as a means of launching and security. 😊

With such a steep taper on the wing plan form, did you still manage to cut them by yourself or did you get help to keep in step at both ends?

What is the section you are using, and did you need to change the thickness on the way to the tip?

Have you cut in camber change to offset tip stall or do you intend to build in washout at the tips?

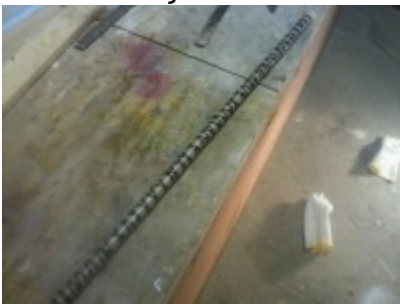
Looking good Roo, I hope you can manage to bring it down on the Purbeck this year. If you do I might have to arrange some sort of convention. 🤔🤔

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **25 Feb 2016, 15:46**

The wing joiner is made out of 18 mm steel tube this will have glass and carbon tows pulled through it. The wing tubes are 18 mm aluminium tube split along the length and then opened to fit the steel joiner. It is then wrapped in glass and carbon tow.



This will then be carboned in the wings in a solid block.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **23 Feb 2016, 16:54**

Pic



Pic

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **23 Feb 2016, 16:52**

More



Pic

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **23 Feb 2016, 16:51**

Finshed the wing blanks.



Hot wired out of blue foam.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **23 Jan 2016, 17:44**

Printed and started to cut out wing templates this morning.



Hq 2.5 12 to 2.5 11 at the tip

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **11 Nov 2015, 16:14**

Primer



added

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **31 Oct 2015, 17:00**

The fuz is now filled sanded and filler primed



and the retract made has shown in the other thead.

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **29 Sep 2015, 14:52**

It's



snowing

Re: 1\3 dg 808

by **C.olson**

Posted: **28 Sep 2015, 18:28**

Hi Roo,

Great subject and all in at £60 too !! I'm a real newby with anything glass but iv seen your lost foam models and they all look fantastic keep hard at it.

I won a 1/3 scale DG600 fuz on eBay this summer for not a lot of money and I snapped it up although I had to drive to Yorkshire to get it (from Essex)but it was worth it,



Iv never fitted out anything this big so il be asking some questions on what resins,best methods etc, I will be getting Barry at foamwings UK to do my wings for me.

I'm currently working on a 1/2.6 scale H17 and that's taking what little time I have right now so the big DG will have to wait but I would like to start it this winter but it's looking like next winters project now if I don't pick up my pace a bit more!

Re: 1\3 dg 808

by **roo Hawkins**

Posted: **28 Sep 2015, 17:08**

Canopy cut out with dremel and hot wire .





started to make flange

Re: 1\3 dg 808

by **Simon WS**

Posted: **25 Sep 2015, 07:28**

Yes great stuff Roo - looking forward to seeing this take shape - you are a prodigious builder!

Simon

Re: 1\3 dg 808

by **terry white**

Posted: **24 Sep 2015, 21:37**

I'm all ears and eyes Roo, good luck with your project. Terry

1\3 dg 800

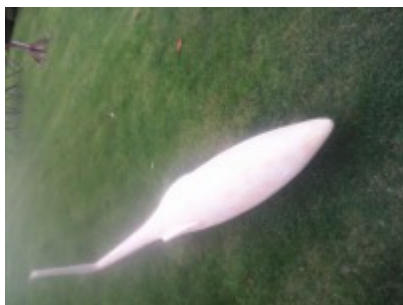
by **roo Hawkins**

Posted: **24 Sep 2015, 16:06**

After seeing a couple of DG 808s fly at the long myid scale day I was inspired 2 scratch build one . so a week later I started the plans and over the last month inbetween gaps building my ash31 I purchased a block of foam a started carving and laminating with carbon , glass and epoxy it is now at the filler stage. It will be lost foam and is the biggest build I have started so far. Cost so far appox £60.







I think it will be a slow build as I must finish my other builds first. It is made up of 1 layer of 290 2 layers of 200gm and 1 layer of 130 gm glass with 200gm of carbon ud tape in the tail. More carbon and kelter reinforcement will be added later when the foam is removed.

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