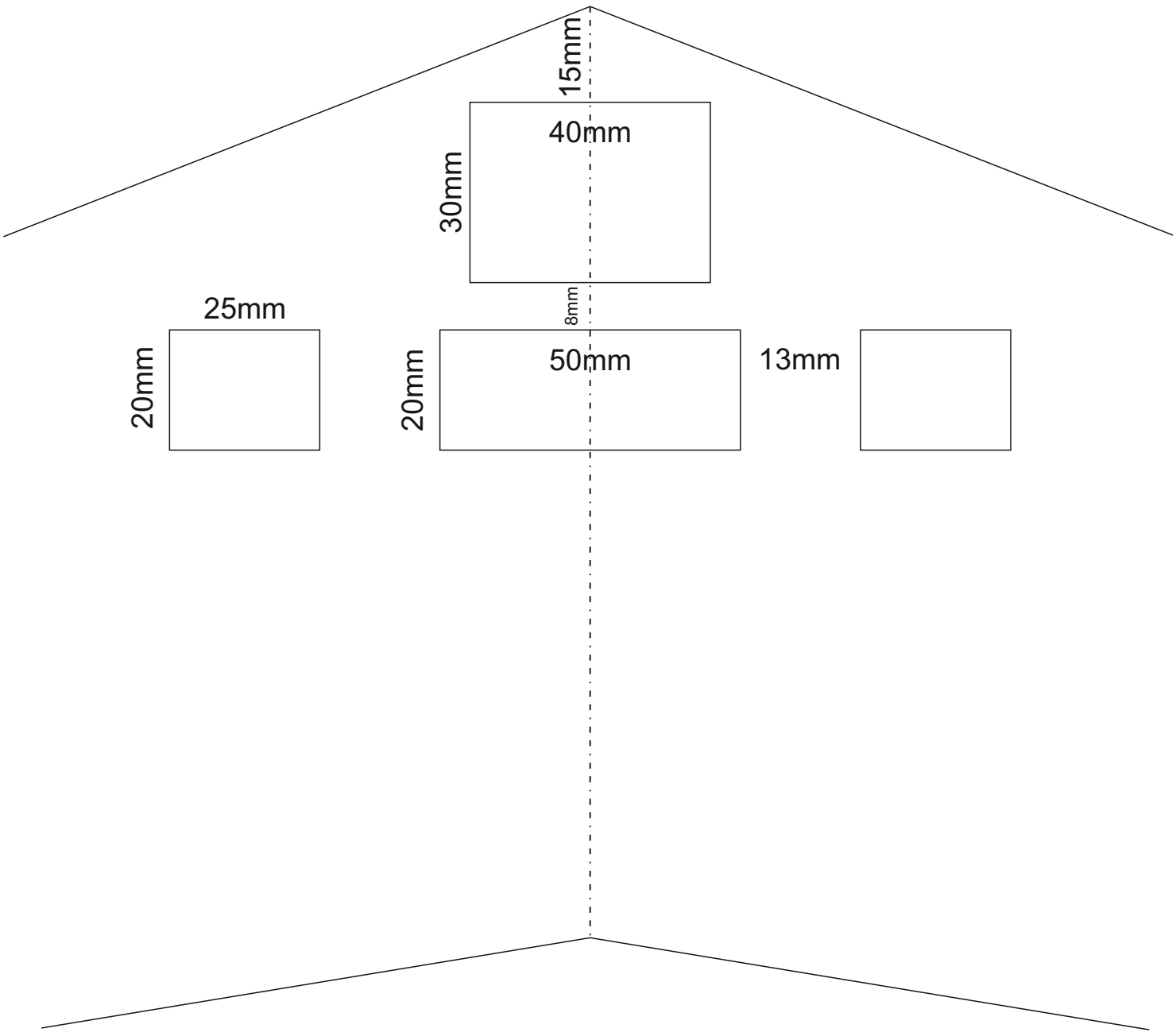
ANGELWING DESIGNS

SMOSH

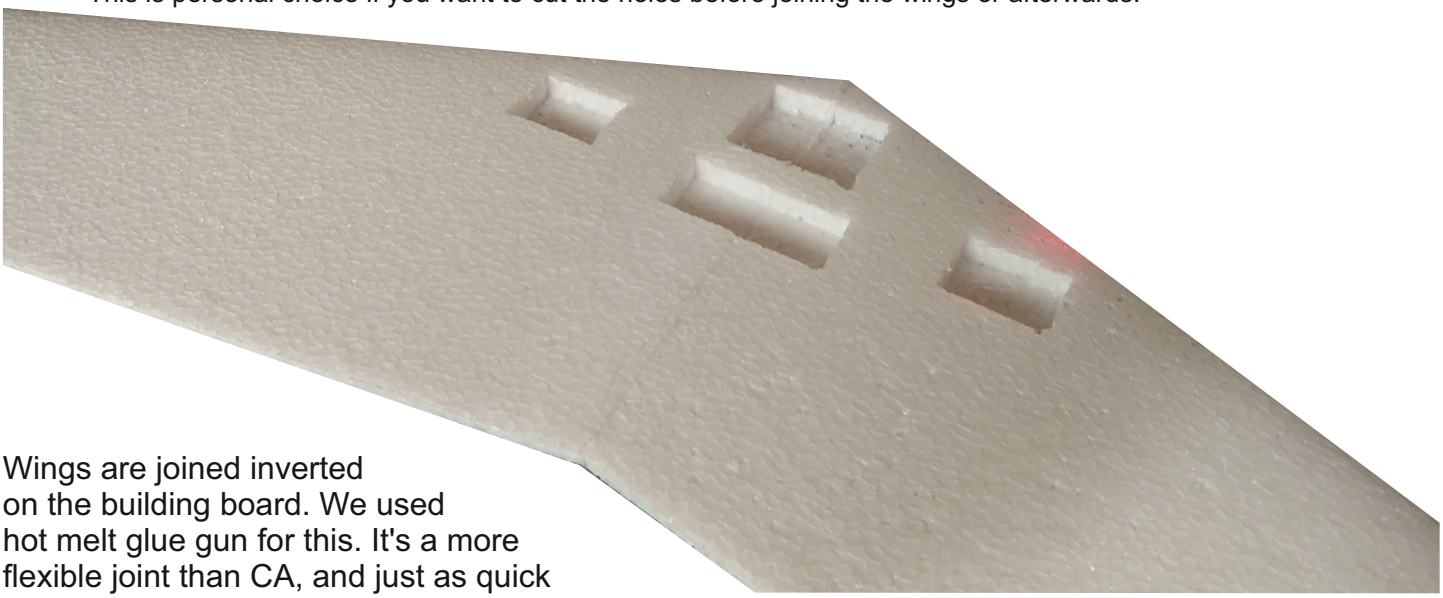
Area 41 Stink Works



Print this page as a template for cutting the holes for the servos RX and Battery.

Print Settings A4, Scale 100% Do not select fit to paper which is the default for most printers

Here were using a template to mark and cut the holes for the RC equipment before joining the wings.
This is personal choice if you want to cut the holes before joining the wings or afterwards.

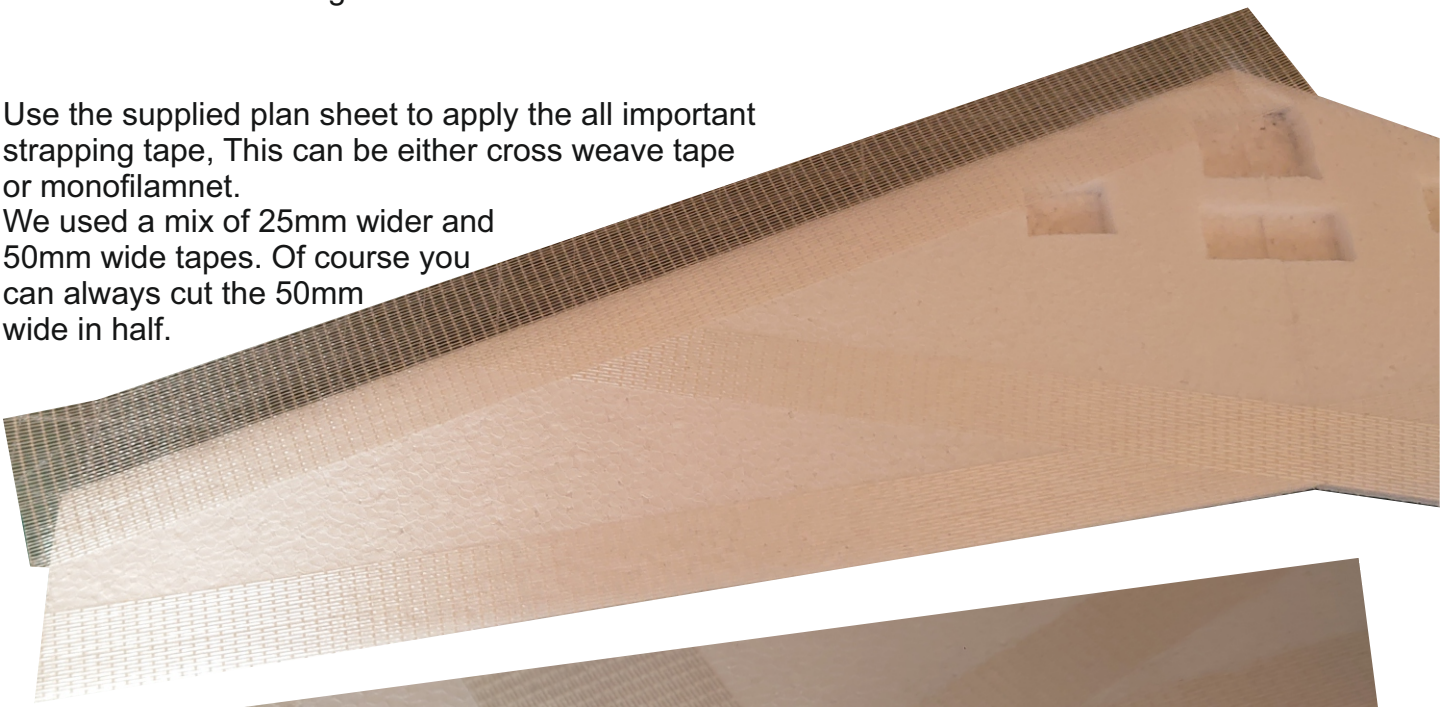


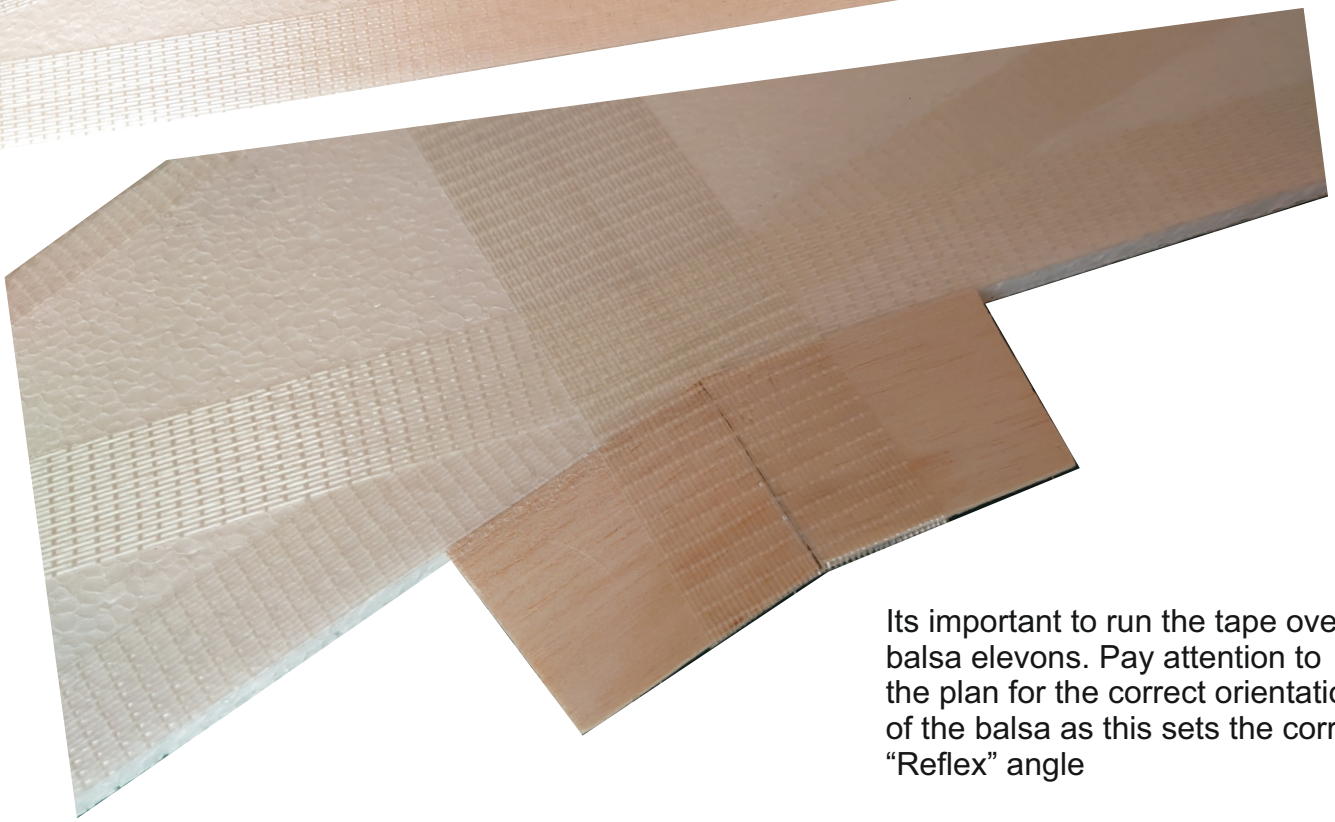
Wings are joined inverted
on the building board. We used
hot melt glue gun for this. It's a more
flexible joint than CA, and just as quick

Really important is to prep the wings well before
adding the reinforcing tape (not supplied)
First task is to scuff the surface of the wings top and bottom with 120 grit Glass paper.
We are just looking to remove any stray bobbles and scratch the surface. Alternatively as course scouring pad such as a scoth bright dish pad can be used.

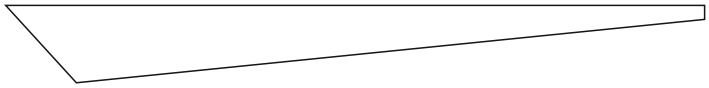
Next job is to make the epp nice and sticky!
There are various spray glues available.
UHU Power spray, 3M77 are the most common.
In the UK Hobbycraft sell an own brand Permanent photo mount spray we have just discovered. This is a lot cheaper than the other options and works great. DO NOT use carpet spray glue. Its stringy, and too thick. All we want is a light mist coat to make the surfaces tack to the touch.

Use the supplied plan sheet to apply the all important strapping tape, This can be either cross weave tape or monofilamnet.
We used a mix of 25mm wider and 50mm wide tapes. Of course you can always cut the 50mm wide in half.





Its important to run the tape over the balsa elevons. Pay attention to the plan for the correct orientation of the balsa as this sets the correct “Reflex” angle



Cut or sand a chamfer onto the leading edges of the elevons as shown. The elevons are top hinged, using hinge tape or the covering film. Hinge the inside surface first as shown below

And as quickly as that you are now ready to cover the airframe. We have supplied a 2m roll of feather cover gloss film which is what we covered our own model with. If you watch Nick Chittys videos you will see Nick has opted fro coloured packing tape. The choice is yours, we do however advise another very light dusting of the spray adhesive. Raw EPP is almost a none stick product!

So onto the fins. The fins only need the magnets glueing into place then covering. The magnets that are fitted into the wing have a balsa tip that is basically there just to hold the magnets and give correct alignment. We used hot glue again for this. Make sure you tape over the magnets though. They can pull out if they arent bonded well. Its not a problem though as the smash will fly without one, or both of its fins!

So whats the hole for? Well if you don't want to loose the fins you can use a piece of thread, nylon fishing line, strimmer cord etc to retain the fins. The fins flap around wildly once knocked off causing huge drag and an inevitable landing.

Refer to the Plans sheet for the CG and control throws.
This is more of a construction guide than a set of instructions and we welcome your feedback on the model. Don't forget to leave a product review. Happy Smashing!