

Let's build a boomerang!

„Two left hands“ are not an argument!

Quote: Heinz-Willi Dammers / hwd boomerang entertainment

With this guide you build good, airworthy Boomerangs without problems completely by yourself

Buy a boomerang? You can - but you don't need! Build your boomerang nevertheless simply by yourself!

It's really not difficult to build a simple boomerang by yourself. The most necessary tools probably you have in your basement anyway (see Toolbox):

The short version:

You have to paint a boomerang shape with the indicated profile lines on a plywood base, this to cut out with a saw and to give a profile to the resulting "unwrought" with rasp, file and sandpaper.

But one thing at a time:

Toolbox

- Pen
- Coping- or Jig Saw
- Clamps
- Rasp and File
- Sandpaper
- Plan (or your own ideas)
- Possibly varnish, pins, tape, etc.

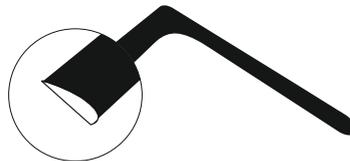
The wood:

Best if you take plywood, depending of the boomerang-model, 3-5 mm thickness. Of course you can take the simple, inexpensive plywood from a hardware store.

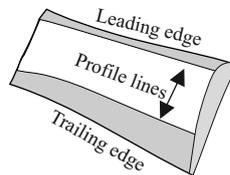
But it would be better to take finnish birch plywood or beech plywood, which is also known as aircraft plywood in the most shops for craft supplies. Although this is a little bit more expensive, but very much more stable.

The profile:

The Profile are the beveled edges of the boomerang, per wing a blunt leading edge and a flat trailing edge.



Justly you will say now : "Stop! That comes me very familiar!" Yes, basically a boomerang wing looks exactly like the wings of an airplane. To let you know how the profile should look like or where you need to rasp the wood away, on most construction-plans the inner thinner lines of the profile are marked.



After sawing out the shape - in the beginning the most difficult will be the elaboration of the profile with rasp and file. Only - without profile the boomerang will not fly. The profile is almost the most important thing of the boomerang.

Here you can see cross-sections through a boomerang wing in the respective processing state:

Fig.1: First, you have an unwrought on which the profile lines are marked

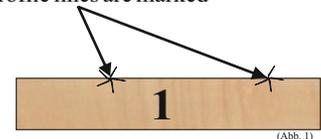


Fig. 2: First, remove the wood with a rasp til to these lines (in Figure 2, the gray areas). But beware that the edges at the bottom of the unwrought do not become too thin.



Fig. 3: The resulting new edges you have to round with a file and/or sandpaper (in Figure 3 the circles).



Fig. 4: Try to get a harmonic shape of the profile by the last step, so that it looks approximately like in Fig. 4.



And shouldn't it works so good at the beginning - an ordinary boomerang mostly forgives minor deviations. Nevertheless, you should try to work as accurately as possible.

Done!

If all boomerang wings are finished, you have your first own airworthy boomerang! Now you can decorate your boomerang at will - for example, by waxing, oiling, varnishing, painting, sticking with tape, airbrushing, burning, etc.

hwd



Step by Step

- a boomerang in about 1 hour

- Transmit a plan incl. profile lines on the plywood sheet
- Saw out the transmitted template with a stub- or jigsaw
- Fix the boomerang blank with clamps
- Abrade the wood with a rasp almost to the profile line
- Abrade the rest with a file, but gently
- Smooth with sandpaper the surface and edges
- Go out (if enough space!), throw and rework if necessary
- Decorate the boomerang (for example varnish, paint or similar)