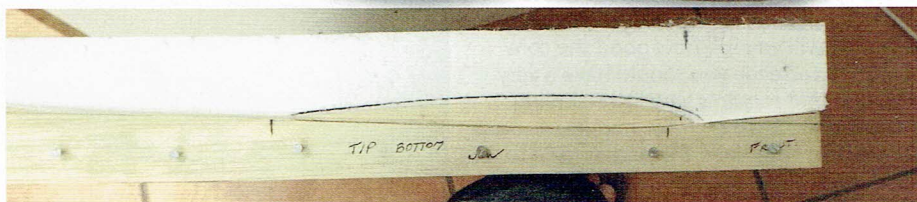


panel (less the leading edge) that is to be used. The templates are made from plywood with the edges hardened with cyano, as I find them easier to make this way.

### Cut The Foam

Once the templates are ready I then cut the foam to size for the panels needed. I try to cut the foam as thin as possible as it will be bent when the cores are cut. For this wing the foam blocks are 420 mm x 690 mm x 70 mm and these blocks must be cut as accurately as possible to ensure that panels can be cut correctly. Once the blocks are ready the lower templates are then positioned on them with 2 mm nails pushed into the foam. The foam is then placed on the flat cutting surface and a packer is added to the middle of the foam block; in this case it was a 4 mm sheet of balsa. The foam is then weighed down. I use floor tiles as they are quite heavy and are thin. The packing must be enough to ensure that the tips (root and tip) of the foam are flat on the surface and the core is bent in the middle. I cut the cores by myself and start at the leading edge as I find I get a more accurate wing this way.

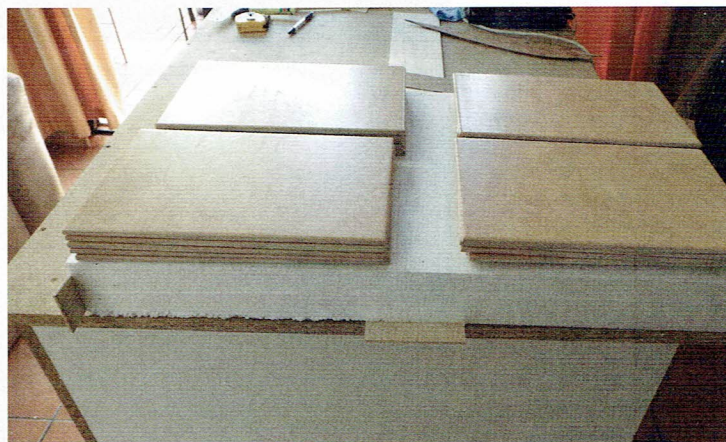
After the first cut is completed the rib profiles are added and the upper surface is drawn in so that the upper templates can be positioned correctly, ensuring the correct thickness of the cores. This is critical as if done incorrectly you will see that the cores do not line up when joining the wings. Once the templates are in position the foam blanks are positioned upside down on the work surface and the packer is again added to bend the foam. Once this is done the second cut can then be completed. You can sneak a quick look but all pieces must be re-positioned for the final cuts to be done.



Getting ready to cut the upper surfaces, marking the thickness needed by using the original tip template. Measure three times and cut once. Do not ask how I know!



Ready to cut the upper surfaces. The foam is upside down with the packer in position and tiles bending the foam block



Foam bent over the packer ready for the second cut