

Teak IOM 2019

**Design BZ6**

By Barry Agar

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DELFTship project

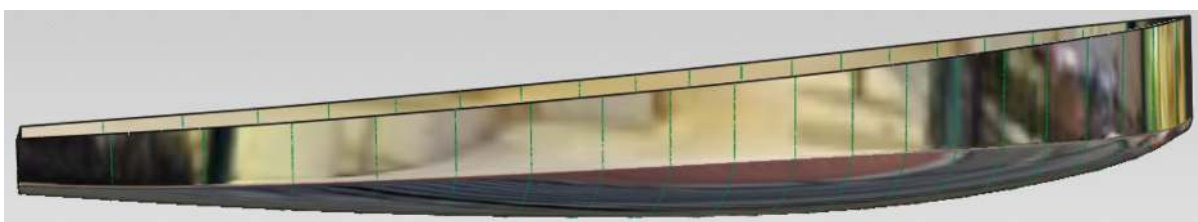
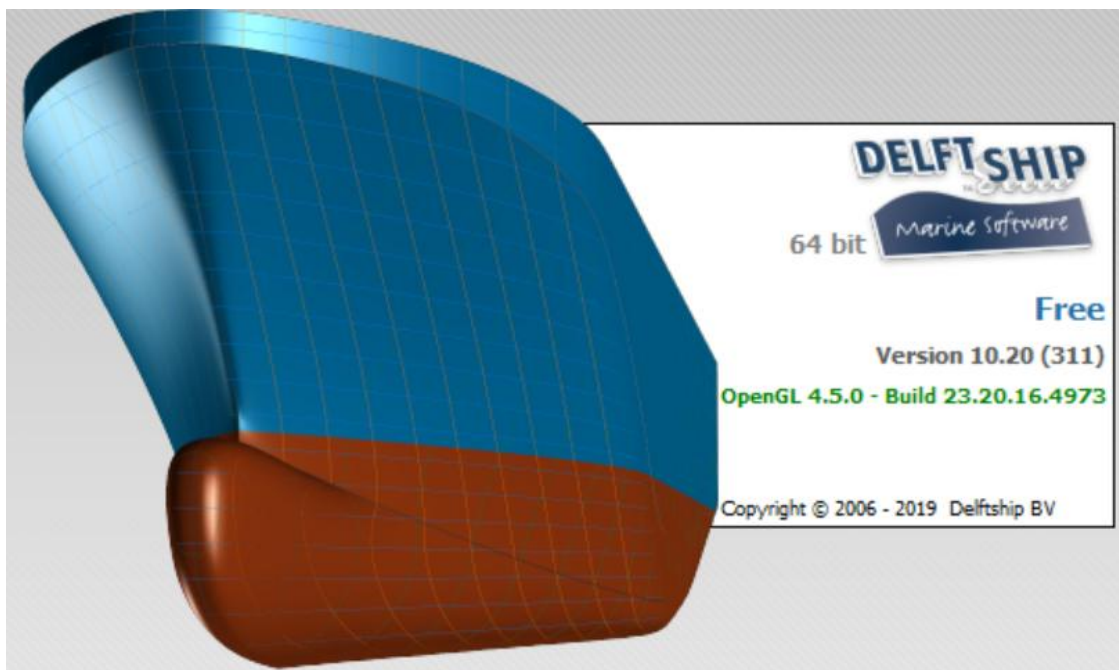
# DELFT SHIP

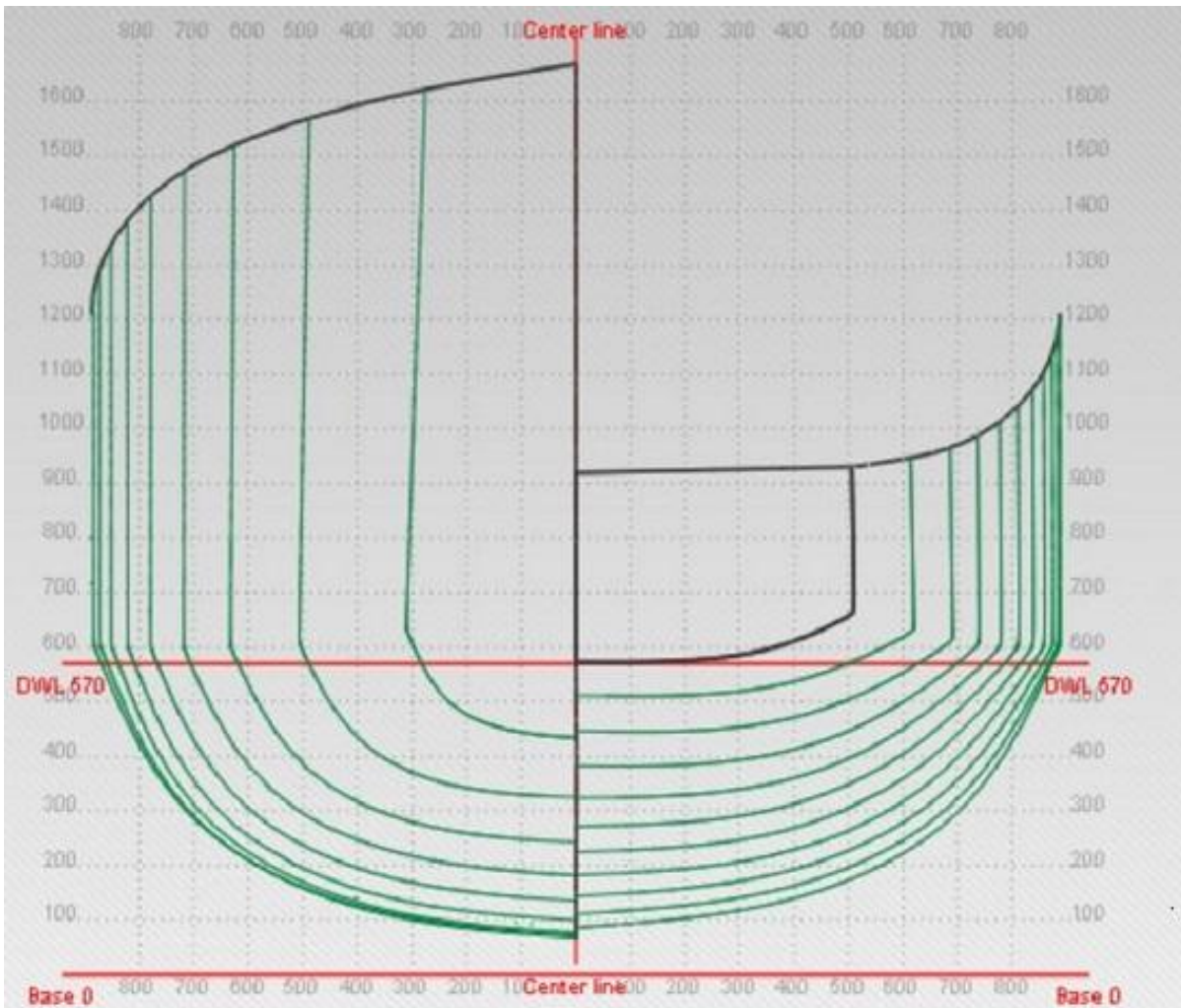
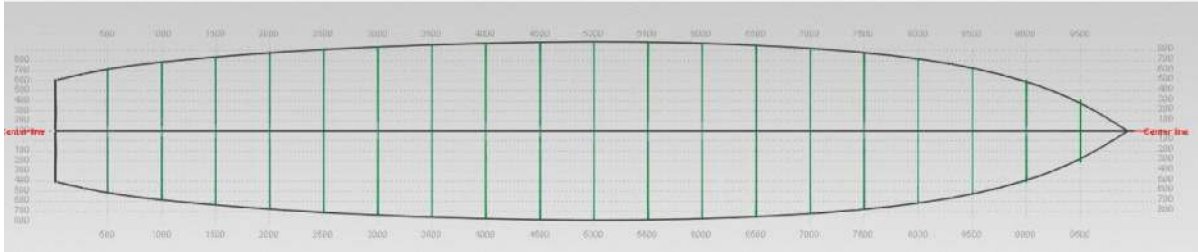
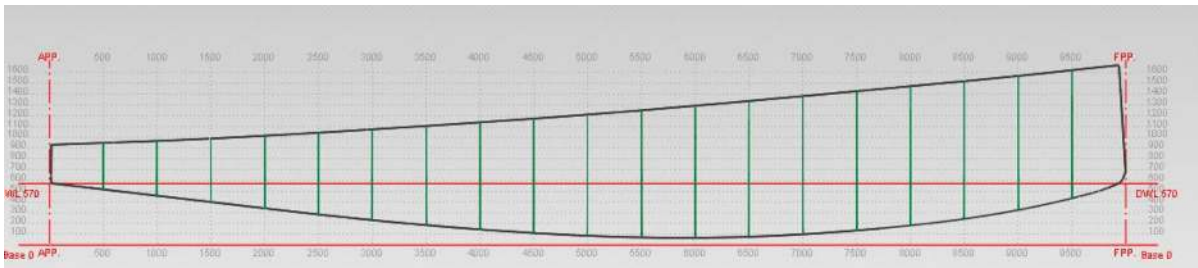
Marine Software

Date modified: 12/01/2019 8:41 AM

Size: 50.4 KB

Date created: 21/12/2018 9:54 AM



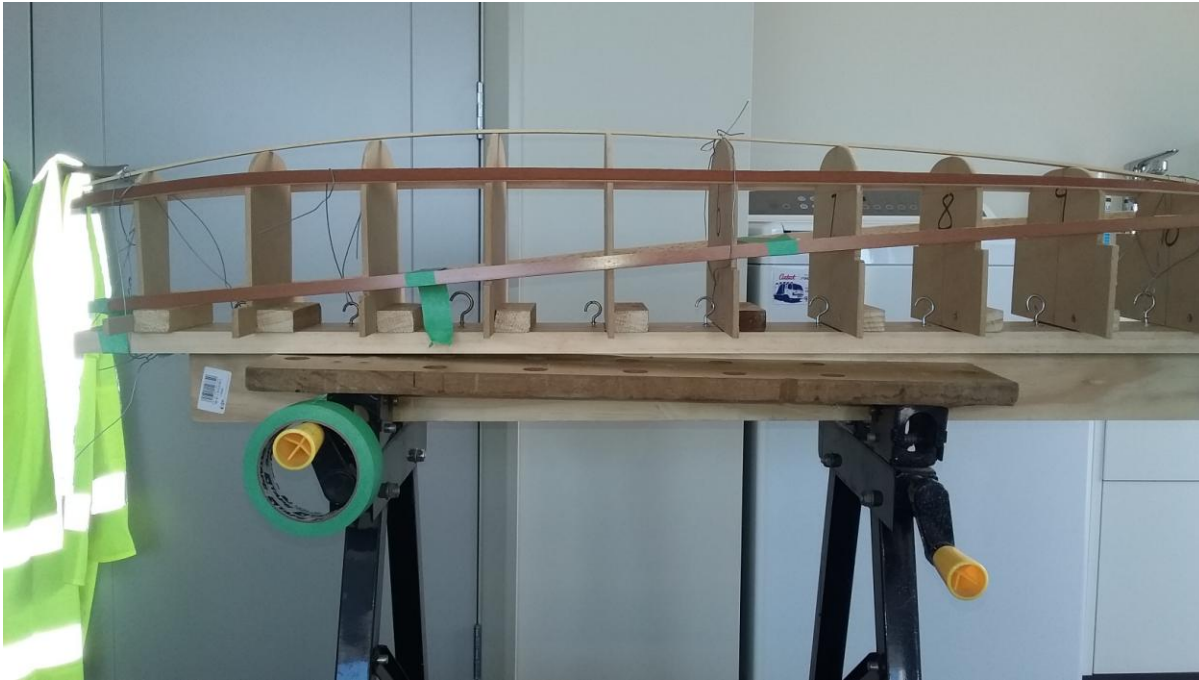




Raw material source for the hull is old timber venetian blinds. Teak slats are 3.5 to 4 mm in thickness due to fading and timber decomposition. Each plank cut to nominal 10mm width with craft knife through each plank shaped to fit



Stations made from hardboard then the edges wrapped in packaging tape to prevent glue sticking when planks are laid



A quick mock up to check alignment of the stations once planks are laid. Small adjustments were made port and starboard and up and down.



A turned balsa keel bulb was wrapped in glad wrap then inserted into a mould containing paving sand and cement. Once set the bulb was poured with lead in two parts



The planks slowly added over the stations. Photo one shows black cotton between planks to ensure the glue line will be visible. Any form of clamping , pegs, wire, tape . Wax baking paper over the clamps prevented glue setting on the clamp and is easily removed



Keep adding and shaping planks to build up the canoe . Photo 3 turned for the first time



With the hull planks differing in thickness the excess is filed away with a rough rasp, then various grades of sandpaper. Until an average hull thickness of 1.5 mm was achieved.



Laying up 76gsm fibreglass on the outside of the hull and applying GemRez epoxy . Hull in rough form after glassing.  
Internal was laid with 26gsm fibre glass

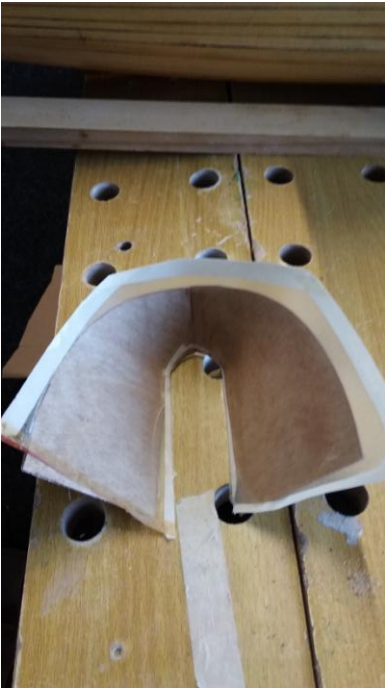


Internal fittings start. Keel and mast tube made from fibreglass and rudder tube in SS. Bracing added in 3/32 ply



Fore deck being bent to curved frame with stiffeners added and reinforcing for rigging screws. Photo 2 shows Mast ram being glued. Outside skin with timber stain and protective epoxy to highlight grain.





Cockpit sides being glasses after being formed. Foredeck glued to canoe sanded and prep'd



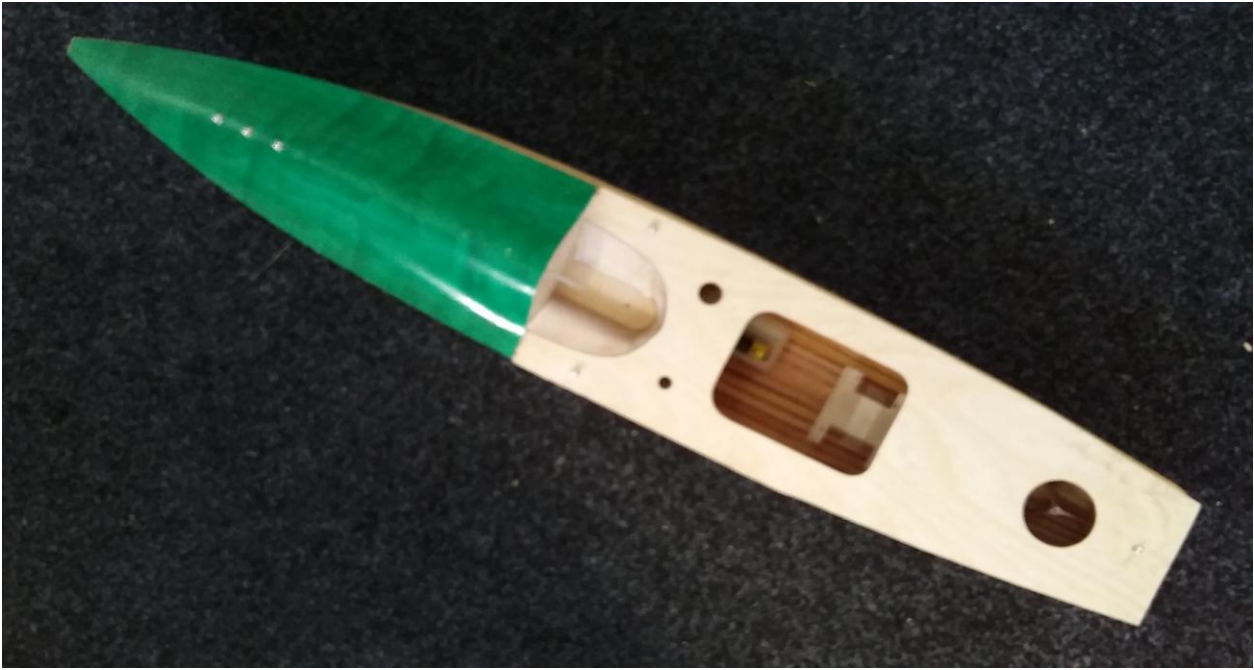
Boat stand with Foam arms that can be removed to lay flat inside sail box . I believe this to be an original idea. June 2019



Three plastic wheels with rubber removed had 12 mm round for mast groove. Centre wheel clamped in work bench jaws while twin wheel plan pivoted at one end and pressure applied whilst rolling mast back and forth thru roller to get desired prebend



Balsa keel fin with carbon fibre stiffener then wrapped in two layers of carbon fibre cloth. Wax baking paper laid over fibre cloth and then a flexible plastic squeegee applied to entire surface to force epoxy into the fibre weave.



All decks attached and prepped for final sanding and clear coat



2000 grit then brasso to get smooth finish



Happy !



New rig and sails added. Now for the water



Kai Iwi Lakes , Northland for initial launch and a regatta hosted by Kerikeri Radio Sailing



Kai Iwi Lakes