

Escapist 24

Bill of materials

The current bill of materials includes all the stuffs required to build the hull , and all the main stuffs related to on-board system in a standard cruising configuration. Steel plates and other stuffs for pivoting keel are not included in this bill.

Hull

marine grade plywood

standard sheet size for this bill , 2500x1500 mm

- 20 mm thickness (transom, other parts, keel box) : 3 panels
- 12 mm (bulkheads) : 10 panels
- 10 mm (hull planking , deck cockpit and cabin surfaces , stempost , interiors panels. radius backing strips) : 30-31 panels
- 5 mm (4mm and 6 mm if 5 not available) : radiused hull area , 4 panels (2 panels of 4 mm and 2 of 6 mm if 5mm not available)

Solid wood elements

take mahogany as first choice but any strong flexible , knots and sap free wood can be used ; a 10 % spare has been counted in total lenght

- 30x30 mm battens (hull bottom and topsides stringers) : 32 linear meters (l.m.)
- 30x20 mm battens : (hull radius area battens, cockpit and deck stringers) : 91 l.m.
- 80x25 mm battens (sherline stringer): 17 l.m.
- 50x10 mm battens (sheerline cap batten) : 17 l.m.
- 35x70 mm battens (hull rubrail , not mandatory) 15 l.m.
- 50x25 mm batten (toerail, teak or similar can be used) : 10 l.m.
- 50x30 mm battens (handrail on cabin, teak or similar can be used) : 4.5 l.m.
- #1 board 40 mm thickness, dimension 1700 x 300 mm (beams)
- #1 board 40 mm thickness, dimension 1300 x 300 mm (beams)
- #1 board 30 mm thickness, dimension 1600 x 250 mm (bulkhead added beams)
- #1 board 80 mm thickness, dimension 600x1900 mm (rudder)
- #1 board 70 mm thickness , dimension 1200x150 (rudder stick, single piece or laminated)

cheap wood for assembly scaffold

- board 20 x 5 cm : 28 l.m. (main rectangle and transverse members)
- vertical pillars 70x70 mm or similar: 29 l.m.

- half sheet of 15-20mm cheap non marine plywood (or clipping from marine plywood) to fasten transom in position

Resin system , primers and painting cycles

- epoxy resin , 120 kg total (A+B components) , slow/extra slow and medium hardeners (70% slow/extra slow)
- 60 kg of biaxial 300 and 500 g/m² (approximately half and half, check plans for details)
- cab-o-sil or other fillers to do thickened resin to be used as glue : 1.5 kg
- light epoxy putty compound
- thick base paint for hull and other surfaces
- final coating mono component or bi component paint (hull color and cockpit/cabin/desk color)
- ant skid powder for working areas to be added to paint
- reference for quantities for paints
 - hull area : 28 square meters
 - other faces area : 22 m²

steel elements: several AISI316 SS steel bolts and nuts and a 6 mm thickness plate to cut the shrouds and forestay chainplates

rig elements and sails

- check study plans

deck gear

- 2 self tailing 16 size winches, ST non to mandatory but recommended
- 2 four ways organizer
- 2 arrays of three/four stoppers suited for 8 mm lines
- 1 camcleat on cambase with a double violin block (mainsheet)
- 6 mast base blocks
- 1 vang circuit with camcleat block
- 2 code zero blocks with camcleats
- several ss steel padeyes
- 1 1:4 circuit for mainsail outhaul with cleat on the boom
- 1 circular/rectangular hatch on cockpit diam. Approx 500 mm
- 1 windlass 750 W class
- commercial anchor bow with roller
- 1 Delta CQR or other type anchor , 10-12 kg
- 1 jib furler small size for jib (optional but recommended)
- 1 furler for unstayed sails for codezero (optional)
- secondary blocks and cleats
- 4 alloy or chromed bronze 200 mm mooring cleats
- 4 bronze mooring fairlead (not mandatory)
- 1 retractable swim ladder for transom
- rudder hardware for 10-12 mm pin

on board systems

engine and ancillary systems

- 10 Hp outboard engine , short shaft
- 30 liters plastic commercial tank suited for gasoline
- tank vent
- tank fuel inlet and hose
- engine hoses

electric system

- 2x120 Ah load batteries
- master switch
- smart battery charger from 220V and form engine alternator or other sources
- shore powerline 220V (plug, electric line, master safety switch)
- cabin led lights
- cockpit light
- navigation lights
- VHF radio and antenna
- wind station (optional)
- small 220V inverter to recharge electronic devices (smarpthones, laptop,tablet etc)
- main electric panel 8 channels with fuze protected switches
- wires

freshwater system

- 100 liters freshwater tank
- electric pump to feed the sinks
- hoses
- water inlet
- water heater 10 liters (optional)
- sinks and tap
- shower
- ball valves, seacocks

blackwater system

- manual or electric toilet
- black water 24 liters tank with integrated pump and macerator
- ball valves, seacocks and hoses

for further info contact us at : info@modernwoodenboat.com