

Bill of materials for hull building of sailboat IDEA 21

- marine plywood (okume suited for boat building, RINA, BS 1088 or other certification, avopid generical exterior grade plywoods; other local essences may be suited as long as they have a consolidated history of boat building materials in the area)
- standard sheet : 2500 x 1500 mm
 - 8 mm thickness : 11 standard sheets e 3 large sheets : 3100 x 1500
 - 12 mm thickness : 9 standard sheets
 - 4 mm thickness: 7 standard sheets
- solid wood:
- wood type : mahogany, first choice douglas/european fir, european ash; other local essences may be suited as long as they have a consolidated history of boat building materials in the area
 - 40 x 30 mm (clamp stringer and chine stringer) : 30 l.m.
 - 50 x 15 mm (toerails) : 9 l.m
 - 53 x 50 mm (lifting keel, use only mahogany or oak) : 20 l.m.
 - 30 x 20 mm (cockpit and deck stringers, radiused area stringers on hull): 45 l.m
 - 30 x 30 mm (topsides stringers) : 14 l.m
 - 20 x 20 mm (radiused area stringers, stringers to stiffien interior joinery): 25 l.m.
 - 20 x 40 mm (bottom stringers) : 14 l.m
 - board: thickness 24 mm, dimesions 2600x400 mm (keel beam)
 - board: thickness 30 mm, dimensions 1500 x 300 (beams)
- epoxy resin: about 55 kg , strictly for nautical constructions
- add-ons for epoxy: cellulose microfibrils, , silica thickner , microballoons, quantity to be determined in use
- biaxial glass : weight 500 g/m² , around 30 kg (or 60 sq.m.)
- unidirectional glass : weight 500 g/m²: 20 sq.m. or 10 kg
- priming and painting materials mono or bicomponenet for nautical construction
- ss AISI 316 steel fittings: small plates, screws, nuts and bolts: as detailed in plans
- lead for bulb: approx. 260 kg