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 + 3 large sheets: 3100 x 1500
  - 12 mm thickness: 9 standard sheets
  - 4 mm thickness: 3 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 stiffen interior joinery): 25 l.m.
  - 20 x 40 mm (bottom stringers): 14 l.m
  - board: thickness 24 mm, dimensions 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 microfibres, 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