

Crispy 650

Bill of materials for complete hull building of planing open boat Crispy 650, plywood sheets are calculated as shown on plans in drawing 12 “Nesting”

Plywood

- specifications: marine grade plywood, oukumè or mahogany (oukumè is mandatory for 6 mm sheets), labelled CTBX, WBS10880, Lloyd's , Rina or other marine grade certifications:
- sheet size: 250x153 cm
- 6mm thickness: 4 sheets (purchase 5 mm if 6mm is not available on local market): hull, bow area
- 10 mm thickness: 10 sheets (cockpit and deck)
- 12 mm thickness: 12 sheets (bulkheads, hull panels) , number of sheets is calculated building each bulkhead starting from three joined parts
- 20 mm thickness: 1,5 sheet (transom)

Solid wood elements

- wood : mahogany, european fir (only first choice), european ash: in any case, wood veneers should have straight fibres , be knots and fractures free, sap pocket free, quite flexible and strong

quantities (with a calculated waste of 15-20%):

- 40x40 mm battens: 60 linear meters (secondary hull bottom stringers, cockpit sides stringers)
- 50x40 mm battens : 15 linear meters (chine battens)
- 30x40 mm battens : 30 linear meters (sheer battens)
- 20 x 50 mm battens: 58 linear meters (deck stringers)
- 200x40 mm boards: 32 linear meters (main hull bottom stringers)
- 250x50 mm boards: 4 linear meters (stempost and backbone)
- 100x50 mm battens: 5 linear meters (backbone)

bonding compounds, resins, glass fabrics

- epoxy resins (suited for boat building): 50 kg approx., my advise is to buy a 30 kg batch when you begin the building and then evaluate the required resin amount at 70% of building work.
- Fillers, fenolic microballoons, silica, chopped glass fibres : evaluate quantities basing on the epoxy system datasheet
- +/- 45° biaxial glass fabric, 500 g/m2 : approx. 25 kg or 50 m2 (the total external hull glass sheeting is not structurally required , if you prefer to go for it to achieve a better chafe protection, add 7 kg of biaxial and 8 kg of resin)
- +/- 45° biaxial glass fabric, 200 g/m2, purchase as fabric or tape : 100 linear meters (tape) or 1,5 kg

cheap wood to build assembly scaffold

70x70 mm battens: 20 linear meters

150 x50 mm boards: 26 linear meters