

Petrel 28

Bill of materials for the building of **Petrel 28** complete hull ; for wood, plywood, resin and glass fabrics a 15% of waste is considered

wood and plywood

- 20 sheets of marine grade plywood, 10mm thickness , oukumè or mahogany , each sheet 250 x 150 cm (bulkhead, floors, interiors, hull)
- 6 sheets of marine grade plywood, 10 mm thickness , oukumè or mahogany, each sheet 310 x 150 cm (hull planking)
- 1 sheet of marine grade plywood, 20 mm thickness , oukumè or mahogany , dimension 250 x 150 cm (transom)
- 7 sheets of marine grade plywood, 5 mm thickness , mandatory oukumè 3 veneers , dimension 250 x 150 cm (hull, radiused area)
- solid wood battens, section 3 x 3 cm, 75 linear meters , mahogany
- solid wood battens, section 2 x 3 cm, 55 linear meters , mahogany
- marine plywood planks, section 10x 60 mm, approx 33 linear meters
- solid wood battens , section 6 x 2,5 cm, 18 linear meters , mahogany (sheer stringer)
- solid wood battens , section 9 x 1,5 cm, 1,5 linear meters , mahogany (bow)
- solid wood battens , section 60x60 , 27 linear meters, mahogany (rudder)
- solid wood board , section 20 x 2 cm, 13 linear meters (2 x 6.5 boards , keel backbone) , mahogany
- 1 hard wood plank thickness 70 mm , about 25 x 100 cm (steel keel fittings blocks) ; oak is the best choice
- other secondary few wooden boards for small works are needed, see plans

note on plywood sheets number: you may need 1 more sheets for 10 mm depending on interior arrangement and waste of plywood

wood for assembly scaffold

- cheap wood boards, section about 15 x 5 cm, approx. 26 linear meters
- 25 linear meters of cheap wood battens, section about 7x7 cm

resins, glues, glass fabrics

- 75-85 kg of epoxy resin to be used as structural adhesive, for wood protection and to laminate glass fabrics and tapes
- additives for epoxy system (microballons, tixotropic silica and other depending on resin brand instructions)
- 13 square meters of biaxial fabric 0°/90° 250-300 g/m2 (hull external protection on radiused area , not mandatory)
- 400 linear meters of biaxial glass tape 500 g/m2 width 100-125 mm, or 25 kg of biaxial fabric same weight

Keel building

steel plates and ss steel threaded bars welded together; 650 kg of lead ballast melted and poured in the keel

Tools required include normal power tools for amateur level

for any further information send an e-mail to info@modernwoodenboat.com