Amigo Fiberglass Version - Hull of Materials

The following is an estimate of the fiberglass materials required to build the basic hull. The listing is to serve as a general guide only, and should not be used to purchase materials until the various options and alternatives have been checked to the plans and to the work whenever possible. The hull construction materials are based on hull surface area square footage, plus additional laminate build-ups required, and may vary somewhat depending on the materials chosen and how they are used. The figures include an average factor, however, it is probable that more materials may be required due to waste, defects, sizes and types available, etc. The listings do not include materials for the decks and cabin superstructure due to possible variations on the part of the builder and the fact that scrap materials from the hull should be used first before purchasing additional materials. In all cases, check the plans and instructions for options.

FIBERGLASS HULL MATERIAL LISTING - FIBERGLASS PLANKING METHOD:

- Fiberglass planking CF-65 or comparable weight - 310 sq. ft.
- Fiberglass mat 1 oz. per square foot - 90 lbs. (1440 sq. ft.)
- Fiberglass woven roving 18 oz. per square yard - 120 lbs. (960 sq. ft.)
- Polyester resin for fiberglass planking, initial coat w/catalyst - 120 lbs. (13 gals. approx.)
- Polyester resin w/catalyst - 427 lbs. (48 gals. approx.)

FIBERGLASS HULL MATERIAL LISTING - FOAM SANDWICH METHOD:

- Foam sandwich core, 1/2" thick PVC or comparable - 310 square feet
- Fiberglass mat 1 oz. per sqare foot 118 lbs. - (1890 sq. ft.)
- Fiberglass woven roving 18 oz. per square yard - 142 lbs. (1135 sq. ft.)
- Polyester resin w/catalyst - 609 lbs. (68 gals. approx.)

Amigo Wood version - Hull Material Listing

The following is an estimate of the wood material required to build the basic hull. The listing serves as a general guide only, and should not be used to purchase materials until the various options and alternatives have been checked to the plans and to the work whenever possible. The hull planking material is based on hull surface area square footage, and may vary somewhat depending on the materials chosen and how they are used. The figures include an overage factor, however, it is probable that more materials may be required due to waste, defects, sizes and types available, etc. The listing does not include materials for the decks and cabin superstructure of spars due to possible variations on the part of the builder and the fact that scrap materials from the hull can be used first before purchasing additional materials. In all cases, check the plans and instructions for options. Suitable boatbuilding woods can include white oak, mahogany (Philippine dark red, American, or African types commonly used in boats), Sitka spruce, Alaskan cedar, Port Orford cedar, Douglas-fir, longleaf yellow pine, apitong, and teak. Lumber that may be totally encapsulated in fiberglass should preferably be a kiln or air-dried softwood species such as Douglas-fir or softer hardwood such as mahogany, as opposed to hard, dense woods, such as oak, which may not bond well, and are subject to expansion and contraction with varying moisture contents.

LUMBER & PLYWOOD:
HULL PLANKING: 3/4" net thick material to 1-1/4" net wide sufficient to cover at least 300 sq. ft. of surface area.
FRAMING MATERIAL (*): Nominal material of "random-random" lengths and widths, with lengths as long as possible and some widths in 1-1/4" stock to at least 12" - 100 bd. ft. 1-1/4" stock; 20 bd. ft. 1" stock.
BULKHEADS, STERN KNEE, & TRANSOM: 3/4" plywood 4' x 8', 8 sheets; 3/8" plywood 4' x 8', 1 sheet.
KEEL/STEM: 2 - 1" x 12" x 15'-0", plus laminating stock(*) of thicknesses to suit with some widths to 8", and lengths to 12' - 40 bd. ft.
FLOOR TIMBERS, STERN POST, & KEEL BLOCKING: 2" nominal material of "random-random" lengths and widths, with some widths to at least 12" - 40 bd. ft.
KEEL APPENDAGE LAMINATIONS: Laminating stock of thicknesses to suit, some widths to 8" (cast iron ballast) or 10" (cast lead ballast) - 45 bd. ft.
SHEER CLAMPS: 4 @ 1" x 2-1/2" x 24'-0"
KEELSON: 1@ 1-1/4" x 6" x 7'-0"

(*) Includes stock for laminating which can be purchased in thicknesses to match the widths of members required. This stock in turn can then be resawn into strips to the thicknesses

necessary (allowing nominal waste for saw kerfs) for the laminations to suit the bending requirements of the member contour (see Instructions).

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