Eureka Bill of Materials

The following list of materials used in the construction of the hull is based on the square footage of the actual hull, however, the figures given should be considered only as an estimate. It is not possible to accurately calculate the materials that will be required for several reasons. First, fiberglass materials come in not only varying weights, but also various widths which will vary not only the lengths of a given width that will be required, but also how the widths of material will be utilized in the actual layup in the construction. Also, the fact that joints in the material will require staggering in many cases will vary the amount of materials used. Another variable is the fact that additional layers of material will be utilized in some areas and not in others. Of course, there is a chance that some material will be wasted as well. Also, it is not possible to accurately determine how much resin will be required. It is possible to accurately determine how much resin SHOULD be used to obtain the ideal resin/glass content, but this figure will not include lost resin from running off during application, or wasted resin which can set up before being used. The figures listed for both fiberglass material and resin take these factors into consideration and allow some degree of extra material, however, it is highly probable that the builder will require more materials than listed due to these variables. For these reasons, it is recommended that the builder use the list as a general guide only. Resin is best purchased in bulk quantities for a boat this size, starting off with one drum of resin initially and using this amount before buying more resin since the product is perishable. Similar statements are applicable to the fiberglass planking and the foam material, although to a lesser degree, since the manner in which they are used can vary the amount required. The figures listed include an overage factor, however, much will depend on how the builder utilizes the material as well as the sizes purchased. The listing includes materials for the basic hull only and does not include any material used for the internal structure (decks, cabins, roof, etc.) due to the possible variations which may be desired by the builder, and the fact that leftover material may be available for use from the hull construction. In many instances, a portion of the fiberglass laminate will state "or equivalent". This means that any combination of fiberglass material may be used as long as the total weight of fiberglass material used is the same. For example, one layer of 2 oz. mat would be the same as using two layers of 1 oz. mat, etc.

HULL LAMINATE MATERIAL- FIBERGLASS PLANKING METHOD:

- Fiberglass planking 12" wide x lineal ft: 500'
- Fiberglass mat 1-1/2 oz per square foot: 3800 square feet or approx. 356 lbs. of width to suit
- Fiberglass cloth 10 oz per square yard: 56 yds 38" cloth or approx. 56 sq. yds. of width to suit
- Fiberglass woven roving 18 oz. per square yard: 290 sq. yds or approx. 326 lbs. of width to suit
- Polyester resin: 2 drums (55 gal. size or approx. 1000 lbs. net) laminating resin, plus approx. 20 gals non-thixotropic laminating resin for fiberglass planking (initial coat).

HULL LAMINATE MATERIAL ESTIMATE - FOAM SANDWICH METHOD:

- Foam material (PVC) 3/4" thick x 396 sq. ft.
- Fiberglass mat 1-1/2 oz per square foot: 3800 square feet or approx. 356 lbs. of width to suit
- Fiberglass cloth 10 oz. per square yard: 56 yds. 38" cloth or approx. 56 sq. yds of width to suit
- Fiberglass woven roving 18 oz per square yard: 290 sq. yds or approx. 326 lbs. of width to suit
- Polyester resin with catalyst: 2 drums (55 gal. size of approx. 1000 lbs. net) laminating resin.