

Feather Bill of Materials

All fiberglass material should be of the marine-type often referred to as "chrome treated" material which is free of dirt, grease, and oil. Weights of fiberglass materials other than those listed are not recommended as material which is lighter could affect the strength of the boat, while heavier materials will only make the boat heavier and perhaps impair the performance. Epoxy resins are not recommended as a substitute for the polyester types. Lumber sizes listed refer to standard lumberyard size material except where specifically noted as "net". For example, lumber listed as 1" stock will be standard "four quarters" material which will finish from 3/4" to 7/8" in finished thickness. All widths listed (second figure) are net. All lengths allow sufficient material for trimming to exact lengths. Material should be grouped together and purchased as "random-random" material to be resawn to size for cost savings. The term pine refers to the clear type free from excessive knots. Spruce refers preferably to the Sitka variety. Mahogany refers to the Philippine type. Other woods similar to these types and common to the locale may be substituted. For wood members which will remain a part of the boat, the mahogany type is preferable,. Other plywood types of the Exterior grade may be used alternately also. For form members that are not to remain in the boat, pine or fir is listed although any reasonably clear straight lumber can be used.

FIBERGLASS:

- Fiberglass mat 1 oz per square foot 38" wide - 20 yds. (60 ft.)
- Fiberglass cloth 6 to 7 oz per square yard 38" wide - 20 yds (60 ft.)
- Fiberglass planking "CF-39" or equivalent weight 12" wide - 100 ft.

POLYESTER RESIN:

- Non-thixotropic clear laminating or marble casting resin of 600 to 1000 cps. for coating fiberglass planking material - 2 gallons
- *Clear laminating resin - 9 gallons
- *Surfacing agent: Amount sufficient for 3 gallons of resin
- Catalyst: Amount sufficient for 11 gallons of resin

*In lieu of using surfacing agent with laminating resin, 3 gallons of finishing resin and 6 gallons of clear laminating resin can be used.

MISC.

- Microspheres - approx 1 lb. for mixing with resin for fairing the hull
- Solvent - 2 gallons, acetone, lacquer thinner, or equivalent

- Brushes: 2 - 3" natural bristle type with preferably unpainted wood handles
- Squeegee - 2 - 6" synthetic vinyl type or equivalent

WOOD MEMBERS:			
ITEM	MATERIAL	NO. PCS	SIZE
Sheer clamps	Pine, spruce or mahog	2	5/8" net x 1" x 12'
Jib track blocking	Pine, spruce, or mahog	1	5/8" net x 1" x 4' (makes 2)
Keel batten	Pine or fir	1	1" x 1" x 9'
Set-up cleats	Pine or fir	1	1" x 2" x 14' (makes 9)
Form #8, #9, #10 cross cleats	Pine or fir	1	1" x 2" x 8' (makes 3)
Form #4, #5, #6 cross beams	Pine or fir	1	1" x 8" x 12' (makes 3)
Form #1, #2, #3 cross beams	Pine or fir	1	1" x 6" x 11' (makes 3)
Stem form	Pine (or 3/4" plywood)	1	1" x 12" x 4'

Deck beams	Mahog or spruce	1 2	1" x 2" x 4' 1" x 3" x 4'
Stem cleats & blocking	Pine, spruce or mahog	1	1" x 2" x 4'
Stem fork & breastplate	Pine, spruce or mahog	1	1" x 6" x 2'
Rudder	Mahog	1	1" x 9" x 3'
Daggerboard	Mahog	1	1" x 11" x 4'
Daggerboard cap	Mahog	1	1" x 2" x 1'
Tiller	Mahog	1	1" x 3" x 2'-6"
PLYWOOD:			
Building forms	DF EXT AC or better	1	3/8" x 4' x 8'
Foredeck	DF EXT AC or better	1	1/4" x 4' x 4'