

Eagle-Fiberglass Bill of Materials

(Scroll down for the Wood Bill of Materials)

The following listing is an estimate of the fiberglass materials required to build the basic hull only. The material listing is intended 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, to the work, and to the materials which may be available in the area in which the hull will be built. The listing is only an estimate and may vary with the amount of waste encountered in the work, the sizes and types of material available, and other variables that cannot be controlled. Figures for materials listed include an overage factor or allow for fitting and trimming to size, but it is probable that additional materials may be required due to waste, defects, how the materials are utilized, etc. In all cases, check the plans and instructions for options.

HULL LAMINATE MATERIAL- FIBERGLASS PLANKING METHOD

- Fiberglass planking "CF-65" 12" wide x lineal ft: 300'
- Fiberglass mat 3/4 oz per square foot: 1180 square feet or 55 lbs.
- Fiberglass mat 1 oz. per square foot: 160 sq. ft. or 10 lbs.
- Fiberglass woven roving 18 oz per square yard: 885 square ft. or 110 lbs.
- Polyester non-thixotropic laminating resin with catalyst for fiberglass planking for initial coating: 110 lbs. or approximately 12 gallons
- Polyester laminating resin with catalyst: 500 lbs. or 1 drum (55 gal. size)

HULL LAMINATE MATERIAL ESTIMATE - FOAM SANDWICH METHOD

- Foam material (PVC) 1/2" thick: 288 sq. ft.
- Fiberglass mat 1 oz per square foot: 985 square feet or 62 lbs.
- Fiberglass woven roving 18 oz per square yard: 80 lbs. or 640 sq. ft.
- Polyester resin with catalyst: 500 pounds or 1 drum (55 gal. size)

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All lumber thickness should be purchased as standard lumberyard stock finished as full as possible. Do NOT purchase any NET sized material unless the lumber size is specifically noted on the plans or in the listing as NET. It is a common mistake for builders to see a lumber thickness noted, for example 1" stock,

thinking that this is the NET thickness. Such is not the case. For example, lumber listed as 1" material (commonly referred to as "four quarters" stock) will actually finish from 3/4" to 7/8" thick when purchased off the shelf. All widths, however, are NET or actual width except as noted under the heading LUMBER & PLYWOOD. Types of lumber are also noted under this heading, and can include Philippine and other mahoganies, white oak, or dense vertical grain Douglas-fir.

ITEM	NO. PCS.	SIZE	
LUMBER:			
Keel	2	1" x 6" x 16'	
Skeg/stem cap (*)	4	1/4" x 3" x 22'	
Skeg (inboard version)(*)	1	3" x 10" x 14'	
	1	3" x 10" x 7'	
Skeg (I/O, Outboard version)	1	2" x 8" x 12'	
Keel filler strake	1	1-1/4" x 3" x 16'	
Sheer clamps	4	1" x 1-1/2" x 24'	
	1	1" x 1-1/2" x 12'	
Rub rail	4	1" x 1-1/2" x 24'	
Carling	2	1" x 7" x 18'	
Coaming/cabin clamp	2	1" x 9" x 18'	
Bulkhead framing, deck beams, deck framing (*)	40 random-random bd ft, 1" stock, some widths to 7"- see plans		
Floor timbers (*)	20 random-random bd ft, 2" stock, some widths to 9"- see plans		
Motor stringers (inboard version)	2	2" x 6" x 13'	
Motor stringers (I/O version)	2	2" x 6" x 10'	
Motor stringer uprights (inboard & I/O versions)	1	2" x 4" x 5'	
Motor stringer blocking (makes all from this piece)	1	2" x 8" x 5'	
Stringers (outboard version)	2	2" x 4" x 10'	
Transom cross brace (outboard ver)	1	2" x 4" x 8'	
HULL PLANKING:			
Conventional Strip Planking Option - 3/4" min. net thick x 1" - 1-1/4" net wide sufficient to cover at least 250 sq. ft. of surface area OR Epoxy Strip Planked/Veneer Laminated Method - 1/2" net thick x 3/4" wide strip planking sufficient to cover at least 250 sq. ft. of surface area, + 1/8" net wood veneer 4" - 12" wide sufficient to cover			

at least 500 sq. ft. of surface area.			
PLYWOOD:			
Transom	1 (inboard & I/O version)	3/4" x 4' x 8'	
	3 (outboard version)	3/4" x 4' x 8'	
Stem, breasthook, knees (*)	1	3/4" x 4' x 8'	
Bulkheads (*)	1	1/2" x 4' x 8'	
	1	3/8" x 4' x 8'	
Decking	3	1/2" x 4' x 8'	
(*) See plans and instructions for options			