

Barracuda Plywood version

Bill of Materials

LUMBER & PLYWOOD: All plywood must be intended for marine or exterior use; interior grades are not acceptable. The marine grade panel features higher grade inner ply cores, while the exterior plywood grade cores may have voids not apparent to the eye, and may also use cores made from woods not as suitable for marine applications. In most cases, the glues used in both the marine and exterior panels are the same waterproof type, however, the decision to use exterior panels in lieu of marine panels must lie with the builder, considering the particular use of the panel in the boat and the expected service. The letters A, B and C designate the grade of the exterior veneers with A grade the best, etc. Douglas-fir plywood is acceptable for all plywood, although mahogany or other attractive veneers are preferable in many instances as described in these instructions. All lumber should be top quality, free from defects, and of types proven in use in boats. Suitable woods include Sitka spruce, vertical grain Douglas-fir, mahogany (including Philippine, Honduras, and African types), and comparable woods of good quality. Thicknesses are nominal except as noted "NET". Widths are net except 2" thick nominal members may be of nominal width also. Total lengths allow some overage for trimming, etc., but the breakdown for number of pieces should be checked to the plans and matched to lengths of stock available.

HULL MATERIAL LISTING: The following material listing is an estimate of the materials required to build the basic hull. 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 may vary due to the amount of waste and other variables that cannot be controlled.

ITEM	SIZE	LIN. FT.
LUMBER:		
Framing members	1" x 1 1/2"	8'
	1" x 2"	40'
	1" x 3"	14'
	1" x 6"	100'
	1" x 7"	20'
	1" x 8"	18'
Keel	2" x 6"	18'

Bottom battens	1-1/4" x 3"	112'
Chine logs	1" NET x 2-1/2"	46'
Sheer clamps	5/8" NET x 2"	118'
Carlings	1/2" NET x 2"	84'
Strakes	1-1/2" NET x 4" 1" NET x 3"	40' 68'

PLYWOOD:

ITEM	SIZE	NO. PCS.
Stem, breasthook, transom, floor timbers	3/4" x 4' x 8'	3
Gussets, keel, #6 bulkhead	3/8" x 4' x 8'	2
Bottom planking	1/4" x 4' x 8'	11
Side planking	3/8" x 4' x 8'	7

FASTENINGS:

Screws: Flathead wood type, bronze or hot dipped galvanized

- 1" #8 = 600
- 1 1/4" #8 = 1000
- 1 1/2" #8 = 300
- 2" #10 = 500
- 3" #14 = 25

Nails: Ring type boat nails, bronze or Monel

- 1" #12 = 4 lbs.
- 1-1/4" #12 = 1 lb.

Carriage Bolts: Bronze or hot dipped galvanized complete with nuts and washers. 3/8" x take lengths directly from work - 3 total.

Adhesives: Epoxy adhesives are advised throughout the construction. These may be an epoxy adhesive or epoxy resin. Epoxy resins should be used with thickeners

(silica or equal) per the instructions with the resin and/or thickening agent. Due to the noted options, the amount required is difficult to estimate. Start with a gallon container of epoxy and after use you will be better able to estimate the total amount required.