

Nor'wester - Plywood Bill of Materials

MATERIAL LISTING: The following is an approximation that can be used for hull cost estimates; it is not meant to be used for buying materials without first checking the instructions and plans for various options which will vary the listing (especially with regard to planking panel sizes, powering choices, laminated members, etc.), and to local suppliers for what material sizes may be available. In other words, each builder must make decisions as to how he will build the boat and use materials, and then take off a listing to suit. As a cost savings, materials should be grouped for resawing to the sizes required. Plywood panel lengths are given to cover the length of the vessel although stock panels of the listed size may not be available. See previous herein for options and alternatives.

PLYWOOD: All plywood should be at least AB Exterior or Marine grade; Interior plywood is not acceptable. Douglas-fir or Mahogany-type panels will suffice.

LUMBER: All lumber should be top quality, free from defects, and of types proven in use in boats. Suitable woods include vertical grain Douglas-fir, Alaskan cedar, mahogany (including Philippine, Honduras, and African types), and good quality Southern pine. Thicknesses given below are nominal except as noted "NET". Widths are net. Total lengths listed allow some overage for trimming, etc.

ITEM	SIZE	LINEAL FEET
LUMBER:		
Framing, beams	1-1/4" x 7" 1-1/4" x 6" 1-1/4" x 5"	12' 50' 100'
Keel	2" x 6"	18'
Bottom battens	1-1/4" x 3"	120'

Side battens	1" x 2-1/2"	54'
Chine logs	1" NET x 2-1/2"	48'
Sheer clamps	5/8" NET x 2"	124'
Carlings	1-1/4" x 3"	36'
Strakes	1-1/2" NET x 4" 1" NET x 3"	44' 74'

PLYWOOD:

ITEM	SIZE	NO. PCS.
Transom, stem, breasthook, floor timbers	3/4" x 4' x 8'	4
Gussets, floor timbers, keel, bulkhead	3/8" x 4' x 8'	4
Bottom planking	1/4" x 4' x 24'*	4
Side planking	3/8" x 4' x 28'*	2
Decking	3/8" x 4' x 10' 3/8" x 4' x 8'	2 2

* Note: Standard 4' x 8' sheets can and probably will be used in all cases. Adjust quantities accordingly.

- **Screws:** Flathead wood type, bronze or hot dipped galvanized.
- 1" #8 = 600
- 1 1/4" #8 = 1300
- 1 1/2" #8 = 700
- 2" #10 = 200
- 3" #14 = 25

- **Nails:** Ring type boat nails, bronze or Monel
- 1" #12 = 4 lbs.
- 1-1/4" #12 = 4 lbs.
- **Carriage Bolts:** Bronze or hot dipped galvanized complete with nuts and washers. Size per schedule; take lengths directly from work.

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.