

# Nordcoaster

## 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 Sitka spruce, vertical grain Douglas fir, mahogany (including Philippine, Honduras, and African types), and comparable woods of good quality and strength. Thicknesses are nominal except as noted "NET". Widths are net except 2" thick nominal members may be of nominal widths 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.

ITEM	SIZE	NO. PCS.	
<b>LUMBER:</b>			
Framing	2" x 4" 2" x 6" 2" x 8" 2" X 10" 2" X 12"	8' 80' 80' 8' 16'	
Keel	1" x 6" 2" x 6"	20' 20'	

Bottom battens	2" x 2-1/2"	180'	
Side battens	1-1/4" x 2-1/2"	56'	
Chine logs	1-1/4" NET x 3"	54'	
Lower sheer clamps	1/2" NET x 3"	168'	
Upper sheer clamps	3/4" NET x 2"	116'	
Carlings	1/2" NET x 2-1/2"	88'	
Cabin clamps	1/2" NET x 4"	88'	
Spray rails	1" x 2"	54'	
Lower rub rails	1/2" NET x 2"	112'	
Upper rub rails	3/4" NET x 2"	58'	
Foredeck battens	1-1/4" x 3" 1-1/4" x 2"	5' 20'	
Skeg; Motor stringers - Varies with powering options - See plans & instructions.			
<b>PLYWOOD:</b>			
<b>ITEM</b>	<b>SIZE</b>	<b>NO. PCS.</b>	
Transom	3/4" or 1" x 4' x 10' (*)	1	
Stem, breasthook	3/4" or 1" x 4' x 10' (*)	1	
Gussets, floor timbers	3/4" x 4' x 8'	2	
Bulkheads	5/8" x 4' x 10'	6	
Bottom planking	2 Layers 3/8" sufficient to cover 415 sq. ft. per layer		
Side planking	1/2" x 4' x 29' (*)	2	

Decking	1/2" x 4' x 8' 1/2" x 4' x 10' (*)	2 1	
(*) See plans for joining methods to permit other panel lengths			

**FASTENINGS:** The following list is an approximate estimate of the screws and nails required to build the basic hull based on the Fastening Schedule. Some variations may occur due to the several options and alternatives in the design which in turn may vary the quantities required.

- **Screws:** Flathead wood type, bronze or hot dipped galvanized
- 1 1/4" #8 = 500
- 1 1/2" #8 = 1800
- 2" #10 = 400
- 2-1/2" #12 = 50 (3" optional)
- 3" #14 = 200
- **Nails:** Ring type boat nails, bronze or Monel
- 1" #12 = 2 lbs.
- 1-1/4" #12 = 1 lb.
- 1-1/2" #12 = 2 lb.

**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.