

# Noyo Bill of Materials

The following list of materials is intended to be a general guide only. Before ordering any materials, the text and plans should be checked for possible options. All lumber listed as 1" stock is to be standard "lumberyard four-quarter" material which when finished may vary to somewhat less or slightly more than 3/4" in thickness, unless specified as NET. All widths are NET and all lengths allow for cutting to fit. Grouping lumber and purchasing random-random material to resaw to the required size will result in considerable savings. All lumber used should be first grade free from shakes and knots. Although oak (white oak), Douglas-fir, and mahogany (dark red Philippine or Honduras) are called out in the listing, lumber typical to the locale and of similar types and weights may be substituted. All plywood (PW) is to be marine (MAR) or exterior (EXT) grade. The marine-type is preferable as the inner cores are solid and thus the panel has more structural integrity. Douglas-fir (DF) is satisfactory with the quality of the exposed faces of the veneer being designated by the letters "A" or "B". The "AA" grade panels are always preferable, however, "AB" grade is acceptable. All plywood should be a minimum of three plies. All fastenings should be bronze or hot dipped galvanized ferrous metal. Brass fastenings are not advised nor are the electroplated screws commonly sold in hardware stores. All screws are to be of the flat head type intended for wood. All nails are of the ring-type nail common to boat construction. Unless otherwise specified, all wood-to-wood joints are to be glued with a waterproof or highly water resistant glue such as plastic resin, resorcinol, epoxy, or other equivalent type used per the manufacturer's instructions regarding temperature, clamping requirements, curing time, and mixing method.

**CHECK ALL SIZES TO THE WORK PRIOR TO CUTTING.** Abbreviations used are: Mahog = mahogany; DF = Douglas-fir; PW=plywood; Ext=exterior; MAR=marine.

ITEM	MATERIAL	NO. PCS.	SIZE
<b>LUMBER:</b>			
Frame members	Oak or Mahog	1-1/4" stock 130 random-random board feet with some widths to at least 10"	
Deck beams	Oak or Mahog	1-1/4" stock 40 random-random board feet with some widths to at least 7"	
Keel	Oak or Mahog	2	1" x 5" x 20'
Chine logs	Oak or Mahog	2	1-1/4" x 3" x 24'

Sheer clamps	Oak or Mahog	8	5/8" net x 2" x 26'
Side plankings battens	Oak or Mahog	4	1-1/4" x 2" x 25'
Bottom battens	Oak or Mahog	8	1-1/4" x 2" x 22'
Spray rails	Oak, Mahog or teak	2	1" x 1-1/2" x 24'
Rub rails	Oak, Mahog or teak	4	5/8" net x 1-1/2" x 26'
Toe rails	Oak, Mahog or teak	2	1/2" net x 1-1/2" x 26'
Deadwood	Oak, Mahog or DF	1" x 3" max. stock approx. 200 lin. ft.	
Deadwood end cap	Oak, Mahog or DF	1	2" x 4" x 2'
Carling	Oak or Mahog	2	1-1/4" x 12" x 17'
Deck battens & strongbacks	Oak or Mahog	2	1-1/4" x 3" x 14'
		3	1-1/4" x 3" x 10'
		1	1-1/4" x 2" x 5'
		2	1-1/4" x 2" x 6'
		2	1-1/4" x 2" x 7'
Motor stringers	Oak, Mahog or DF	2	2" x 8" x 6'
Transom cap	Oak, Mahog or teak	1	1" x 4" x 7'

**PLYWOOD:**

Transom	DF Ext AB	1	3/4" x 4' x 8'
Stem, breasthooks, floor timber at Frame #7	DF Ext AB	2	3/4" x 4' x 8'
Gussets & floor timbers	DF Ext AB	1	3/8" x 4' x 8'
Bulkhead at Frame #6	DF Ext AB	2	1/2" x 4' x 8'
Cargo hold bulkhead	DF Ext AB	1	3/4" x 4' x 8'
Side planking	DF Mar AA or AB	2	3/8" x 4' x 12'**
		2	3/8" x 4' x 14'**
Bottom planking	DF Mar AA or Ext AB	12	1/4" x 4' x 8'
Foredeck, sidedecks & motor stringer lamination	DF Ext AB	4	1/2" x 4' x 8'
Decking	DF Ext AB	5	3/4" x 4' x 8'

\*\* Standard 8' panels are optional, scarf or butt joined as required.

**FASTENINGS:**

**Screws:** Flathead wood type, bronze or hot dipped galvanized

- 3/4" #8 - 1 gross
- 1" #8 - 2 gross
- 1-1/4" #8 - 16 gross
- 1-1/2" #8 - 4 gross

- 2" #10 - 5 gross
- 3" #14 - 2 dozen

**Nails:** Ring type boat nails, bronze or Monel

- 1" - 3 pounds
- 1-1/4" - 4 pounds

**Carriage Bolts:** Bronze or hot dipped galvanized complete with nuts and washers. Check lengths to work. Threaded rod may be used alternately.

**Glue:** Epoxy - 2 gallons