

Coaster 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. 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 spruce (Sitka variety) and mahogany (dark red Philippine type) 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 five plies when available. Judicious cutting of plywood will result in scrap material, much of which may be used in the cabin and interior structure. Because scrap material can be used, and many builders elect to make modifications, material for the cabin and interior is not listed. 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.

ABBREVIATIONS: Sitka spruce=SP, Douglas-fir=DF, Mahogany=Mahog, Plywood=PW, Marine plywood=MAR

ITEM	MATERIAL	NO. PCs.	SIZE
LUMBER:			

Frame members and deck beams	Mahog or oak Mahog, fir or oak	1-1/4" ("five-quarters" nominal random-random stock) 65 bd ft with some widths to 8" 1" ("four quarters" nominal random-random stock) 30 bd ft with some widths to 6"	
Keel	Mahog or oak	1	1-1/4" x 8" x 20'
Bottom battens	Mahog or oak	2	1-1/4" x 3" x 17'
Motor well battens (Outboard version)	Mahog or oak	2	1-1/4" x 2" x 6'
Motor stringers (Inboard version)	Mahog, DF or oak	2	2" x 6" x 8'
Chine logs	Mahog or oak	2	1-1/4" x 2" x 21'
Sheer clamps	Mahog or oak	2	1-1/4" x 2" x 27'
Side battens	Mahog or oak	2 2	1-1/4" x 2" x 15' 1-1/4" x 2" x 11'
Ballast/skeg laminations	Mahog, DF or oak	190 lin. ft. 1" x 2", lengths to suit	
Ballast/skeg insert	Mahog, DF or oak	1	1" x 8" x 8'
Carling	Mahog or oak	2	1" x 9" x 20'
Cabin clamp	Mahog or oak	2	1" x 10" x 20'

Deck battens, strongbacks, hatch framework	Mahog, DF or oak	1 1	1" x 3" x 11' 1" x 2" x 10'
PLYWOOD:			
Bottom planking	DF PW ext or MAR AA or AB	2 2 OR 5 total	3/4" x 4' x 8' 3/4" x 4' x 12' 3/4" x 4' x 8'
Side planking	DF PW ext or MAR AA or AB	4 2 OR 10 total	1/2" x 4' x 14' 1/2" x 4' x 12' 1/2" x 4' x 8'
Gussets & bulkheads at Frame #5, centerboard trunk sides	DF PW Ext AB	4	1/2" x 4' x 8'
Stem & aft ballast/skeg insert	DF PW Ext AB	1	3/4" x 4' x 8'
Transom, breasthook & forward ballast/skeg insert	DF PW Ext AB	1	3/4" x 4' x 8'
Decking	DF PW Ext AB	3	3/8" x 4' x 8'
FASTENINGS:			
<ul style="list-style-type: none"> • SCREWS: Flat head wood type, bronze or hot dipped galvanized iron. • 3/4" #8 Screws - 1 gross • 1" #8 Screws - 2 gross • 1-1/4" #8 Screws - 5 gross 			

- 1-1/2" #8 Screws - 3 gross
- 2" #10 Screws - 4 gross
- 3" #14 Screws - 6 dozen

- NAILS: Ring type, Bronze or Monel
- 1-1/4" #12- 4 pounds
- 1-1/2" #12 - 1 pound

GLUE: Epoxy - Approximately 2 gallons