

# Chessie Flyer 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 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.

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

ITEM	MATERIAL	NO. PCs.	SIZE
<b>LUMBER:</b>			
Frame members	Oak, mahog or DF  Oak, mahog or DF		1-1/4" ("five-quarters" nominal random-random stock) 55 bd ft with some widths to 8"+

		1" ("four quarters" nominal random-random stock) 6 bd ft with some widths to 5"	
Centerboard trunk framing members	Oak, mahog or DF	1 2 2 1	2" x 3" x 5' 2" x 8" x 7' 1" x 3" x 9' 1" x 6" x 8'
Keel	Oak, mahog or DF	1	2" x 6" x 24'
Bottom battens	Oak, mahog or DF	2 2 2	1-1/4" x 2-1/2" x 21' 1-1/4" x 2-1/2" x 17' 1-1/4" x 2-1/2" x 12'
Chine logs	Oak, mahog or DF	2	1" net x 2" x 26'
Side battens	Oak, mahog or DF	2	1" x 2" x 28'
Sheer clamps	Oak, mahog or DF	2	1" net x 2" x 29'
Carling	Oak, mahog or DF	2	1" x 4" x 10'
Cabin clamp	Oak, mahog or DF	2	1" x 4" x 10'
Skeg	Oak, mahog or DF	1	2" x 8" x 6'-6"
Rudder	Oak, mahog or DF	1	2" x 12" x 7'-6"
Mooring bitts	Oak, mahog or DF	2	2" x 3" x 4'

Strongbacks	Oak, mahog or DF	1 1	1" x 2-1/4" x 7'-6" 1" x 3" x 5'
Deck battens	Oak, mahog or DF	2 2 2	1" x 2-1/2" x 5' 1" x 2-1/2" x 6' 1" x 2-1/2" x 7'
Stemhead	Oak, mahog or DF	1	2" x 8" x 7'
Bowsprit	Oak, mahog or DF	1	1-1/8" net x 3" x 6'-6"
Trunk blocking	Oak, mahog or DF	1	2" x 2" x 4'
<b>PLYWOOD:</b>			
Bottom planking	DF PW ext or Mar AA or AB	4 <b>OR 6</b>	3/8" x 4' x 12' 3/8" X 4' X 8'
Side planking	DF PW ext or Mar AA or AB	2 4 <b>OR10</b>	3/8" x 4' x 8' 3/8" x 4' x 10' 3/8" x 4' x 8' Total
Centerboard trunk	DF PW ext or Mar AA or AB	2	1/2" x 4' x 8'
Frame gussets	DF PW ext AB	1	3/8" x 4' x 8'
Stem, sternpost & breasthooks	DF PW ext AB	1	3/4" x 4' x 8'
Decking & motor	DF PW ext AB	6	3/8" x 4' x 8'

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**FASTENINGS:**

- SCREWS: Flat head wood type, bronze or hot dipped galvanized iron.
- 3/4" #8 Screws - 4 gross
- 1-1/4" #8 Screws - 12 gross
- 1-1/2" #8 Screws - 2 gross
- 2" #10 Screws - 1 gross
- 3" #14 Screws - 5 dozen
  
- NAILS: Ring type, Bronze or Monel
- 1-1/4" #12- 3 pounds

**GLUE:** Epoxy - Approximately 1 1/2 gallon