

Glen-L 15 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. Oak refers to white oak. 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
LUMBER:			
Frames & bed logs	Mahog, oak or SP	"four quarters" material	60 bd. ft

Centerboard uprights	Mahog, oak or SP	1	1-1/8" x 6" x 3'-6"
Keel	Mahog, oak or SP	1	1" net x 4" x 12'
Chine logs	Mahog, oak or SP	2	1" x 2" x 16'
Sheer clamps	Mahog, oak or SP	2	3/4" x 1-1/8" x 16'
Outer sheer (optional)	Mahog, oak or SP	2	5/8" x 1-1/2" x 16'
Bottom battens	Mahog, oak or SP	4	1" x 2" x 12'
Carling	Mahog, oak or SP	1	5/8" x 10" x 12' (makes 2)
Strongback & battens	Mahog, oak or SP	1	1" x 2" x 10'
PLYWOOD:			
Frame gussets & trunk sides	DF PW EXT AB	1	1/4" x 4' x 8'
Stem, centerboard, floor timbers & rudder	DF PW EXT AB	1	3/4" x 4' x 8'
**Planking	DF PW MAR AA or AB	2	1/4" x 4' x 16' (or 4 sheets 4' x 8')

Decking	DF or Mahog AB EXT PW	2	1/4" x 4' x 8'
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NOTE: Floorboards and seating not given.

**By very careful cutting, you can obtain a bottom and side from one 4' x 16' panel (or 2 4' x 8' panels). Check to work by making paper templates.

FASTENINGS:

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

- NAILS: Ring type, Bronze or Monel
- 1" #12= 3 pounds

- CARRIAGE BOLTS: Bronze or hot dipped galvanized
- 1/4" x 6-1/2" - 2 required for stem to keel.
- 1/4" x 2" - 2 required for deck beam to side frame member at #5.

GLUE: Epoxy - Approximately 1 gallon