

Glen-L 25 Plywood 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:			

Framing members for transom, frames & deck beams	Oak, Mahog or SP	1-1/4" random-random material with some widths to 9", 100 bd ft. 1" random-random material with some widths to 6", 15 bd ft.	
Centerboard trunk framing	Oak, Mahog or SP	2 2 1 1 1	1" x 2" x 3'-3" 2" x 3" x 2'* 2" x 3" x 1'* 2" x 2" x 6'* 2" x 6" x 1'-6"*
Bed logs	Oak, Mahog or DF	2	2" x 12" x 8'
Miscellaneous blocking	Oak, Mahog or DF	1 1	2" x 2" x 4' 2" x 4" x 2' (Solo ver.)
Keel	Oak, Mahog or SP	1	2" x 8" x 21'
Chine logs	Oak, Mahog or SP	2	1-1/4" x 2" x 25'
Sheer clamps	Oak, Mahog or SP	2	1-1/4" x 2" x 26'
Side planking battens	Oak, Mahog or SP	6	1" x 2" x 26'
Bottom battens	Oak, Mahog or SP	2 2 2	1" x 2" x 24' 1" x 2" x 22' 1" x 2" x 21'
Longitudinal blocking in hull	Oak, Mahog or SP	2	1" x 2" x 20'
Carlings	Oak, Mahog or SP	2	1-1/4" x 4" x 20'

Coamings	Oak, Mahog or SP	2	1-1/4" x 8" x 18'
Deck battens and strongback	Oak, Mahog or SP	2 2 1	1" x 2" x 4' 1" x 2" x 6' 1" x 2" x 8'

* Surfaced to match thickness inside centerboard trunk.

PLYWOOD:

Stem, Frame #4, breasthook	DF Ext AB or MAR	1	3/4" x 4' x 8'
Transom	DF Ext AB or MAR	1	3/4" x 4' x 8'
Bulkheads for frames	DF Ext AB or MAR	2	3/8" x 4' x 8'
Centerboard trunk sides	DF Ext AB or MAR	1	3/8" x 4' x 8'
Bottom planking	DF AA or AB MAR	4 OR 6	3/8" x 4' x 12' 3/8" x 4' x 8'
Side planking	DF AA or AB MAR	4 2 OR 7	3/8" x 4' x 8' 3/8" x 4' x 10' 3/8" x 4' x 8'
Decking	DF Ext AB or MAR	2 1 OR 2-1/4	3/8" x 4' x 8' 3/8" x 4' x 10' 3/8" x 4' x 8'

FASTENINGS:

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

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

- CARRIAGE BOLTS: Bronze or hot dipped galvanized with nuts and washers. As noted in Instructions with lengths determined directly from the work, due to variations in sizes of lumber.
- 1/4" - 20 total
- 5/16" - 8 total
- 3/8" - 2 total

GLUE: Epoxy - Approximately 4 gallon