

Glen-L 21CB 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
LUMBER:			
Transom framing	Mahog, Oak or SP		1" x 6" x 7 Lin ft. 1" x 4" x 2 Lin ft. 1" x 3" x 10 Lin ft. 1" x 2" x 5 Lin ft.

Frames and Deck Beams	Mahog, Oak or SP	1" x 2" x 16 Lin ft. 1" x 3" x 60 Lin ft. 1" x 6" x 20 Lin ft. 1" x 7" x 10 Lin ft. 1-1/4" x 3" x 34 Lin ft. 1-1/4" x 8" x 6 Lin ft.	
Bottom Battens	Mahog, Oak or SP	2 2 2	1" x 2-1/2" x 18' 1" x 2-1/2" x 16' 1" x 2-1/2" x 13'
Keel	Mahog or DF	1	2" x 6" x 18'
Chine Logs	Mahog, Oak or SP	2	1-1/4" x 2-1/2" x 22'
Sheer Clamps	Mahog, Oak or SP	2	1-1/4" x 1-1/2" x 24'
Bed Logs	Mahog or DF	2	2" x 8" x 6'
Centerboard Trunk Uprights	Mahog, Oak or SP	2	1-3/8" net x 2" x 3'
Centerboard Trunk Cleats	Mahog, Oak or SP	2	1" x 1-1/4" x 6'
Centerboard Frame & Blocking	Mahog, Oak or SP	1	2" x 2" x 2'*
Centerboard Trunk Cap	Mahog, Oak or SP	1	1" x 4" x 6'
Carling	Mahog, Oak or SP	2	1-1/4" x 3" x 15'

Cabin Clamp	Mahog, Oak or SP	2 1	1" x 3" x 14' 1" x 6" x 6' (sawn to shape)
Cockpit Coaming	Mahog, Oak or SP	2 1	1-1/4" x 8" x 8' (sawn to shape) 1-1/4" x 6" x 6' (sawn to shape)
Deck Battens	Mahog, Oak or SP	1	1" x 2" x 10'
Deck Strongbacks	Mahog, Oak or SP	1	1" x 2" x 8'
Cockpit sole/berth top strongback	Mahog, Oak or SP	2	1" x 2" x 8'
Mast Stanchion	Mahog or DF	1	2-1/2" x 2-1/2" net x 2'-6"
Cabin Framing Members	Mahog, Oak or SP	16 random-random bd ft of 1" material min. widths of 4" 8 random-random bd ft of 1-1/4" material min. widths 4"	
* Designates material that may be standard lumberyard material in both width and thickness			
PLYWOOD:			
Bottom Planking	DF Ext AB or MAR	2 2 OR 6	3/8" x 4' x 10' 3/8" x 4' x 12' 3/8" x 4' x 8' (optional)

Side Planking	DF Ext AB or MAR	4 OR 6	3/8" x 4' x 12' 3/8" x 4' x 8' (optional)
Stem, Frame #7 Floor Timber, Breasthook, & Cabin Knee	DF Ext AB	1	3/4" x 4' x 6'
Decking	DF Ext AB	4	3/8" x 4' x 8'
Transom	DF Ext AB	1	3/8" x 4' x 8'
Floor Timbers & Gussets	DF Ext AB	2	3/8" x 4' x 8'
Cockpit Sole/Berth Top	DF Ext AB	4	3/8" x 4' x 8'
Cockpit Seat Tops & Facings	DF Ext AB	2	3/8" x 4' x 8'
Centerboard Trunk Sides, Cabin Sides, & Windshields	DF Ext AB	2	3/8" x 4' x 8'
Cabin Roof	DF Ext AB	2	3/8" x 4' x 8'

FASTENINGS:

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

- 3" #14 Screws - 3 dozen
- NAILS: Ring type, Bronze or Monel
- 1-1/4" #12 - 5 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" - 22 total
 - 5/16" - 6 total
 - 3/8" - 3 total

GLUE: Epoxy - Approximately 1-1/2 gallons