

# MiniMaxed Bill of Materials

DO NOT PURCHASE ANY MATERIAL UNTIL YOU READ THIS SECTION.

**HULL MATERIAL LISTING:** The following listing is an estimate of the materials required and is intended to serve as a general guide only. Check the various options and alternatives to the plans, to the work, and to the materials which may be available in the area in which the hull will be built. The listing may also vary due to the amount of waste and other variables that cannot be controlled.

**LUMBER:** All lumber used should be first grade, free from knots, shakes, checks, or other defects. All lumber sizes should be checked to the work before purchasing wherever possible. Lumber typical to the locale and proven in use in boats of similar type can be used as long as the weight, strengths, and characteristics are similar. Suitable boatbuilding woods include Douglas fir (DF), white oak, mahogany (Mahog), Philippine dark red, American, or African types commonly used in boats), Sitka spruce, Alaskan or Port Orford cedar, and yellow pine. The listing calls out the preferable material but substituting lumbers as noted in the foregoing is optional. All 1" lumber is standard "four quarters" lumberyard stock, usually finished to 3/4" thickness, while all widths are net. Material listed as 1" x 1" is ripped from standard 1" stock and will be 3/4" thick and 1" wide. All 2" x 3" material is standard lumberyard stock in both width and thickness. All lengths listed allow for cutting to fit.

Abbreviations used in the following are: DF = Douglas-Fir; Mahog. = Mahogany; PW = Plywood; MAR = Marine; EXT = Exterior.

ITEM	MATERIAL	NO. PCS.	SIZE
<b>LUMBER:</b>			
Keel & #0 inside frame	Mahog	1	1" x 1 1/2" x 6' 6"
#0 frame	Mahog	1	1" x 1" x 6'
Sheer	Mahog	2	1" x 1" x 6'

Carling	Mahog	2	1" x 1" x 5'
BH #3 frame	Mahog	1	1" x 2 1/2" x 8'
Strongback	Mahog	1	1" x 1 1/2" x 3'
2" cleat atop knee	DF	1	2" x 3" x 1' 6"
2" vertical "A" (makes two)	DF	1	2" x 3" x 1' 3"
Steering wheel mount #9	Mahog*	1	1" x 7" x 1' 4"
Skeg	Mahog	1	1" x 1 1/2" x 3' 6"

\*DF 3/4" PW optional

**PLYWOOD:** All plywood must be intended for marine (Mar) or exterior (Ext) use; interior grades are not acceptable. The marine grade panel features higher grade inner ply cores, while the exterior plywood grade cores may have voids not apparent to the eye, and may also use those made from woods not as suitable for marine applications. Exterior panels may also be "scant" or slightly less than the full noted dimension. In most cases, the glues used in both the marine and exterior panels are the same waterproof type, however, the decision to use exterior panels in lieu of marine panels must lie with the builder, considering the particular use of the panel in the boat and the expected service. The letters A, B and C designate the grade of the exterior veneers with A grade the best, etc. Douglas-fir (DF) is acceptable for all plywood, although mahogany or other attractive veneers are optional. The plywood bottom is preferably marine grade, although the original MINIMAX specifications called out "AC Exterior grade plywood" throughout. When using plywood with lower grade veneers keep the "C" side of the deck and bottom on the interior and so other parts are not visible from the cockpit.

Bottom #1	DF MAR or Ext AB	1	1/4" x 4' x 8'
Deck #2 & sole	DF Ext AB or AC	1	1/4" x 4' x 8'
#0, #3, #4, #5, & #8	DF Ext. AC	1	1/4" x 4' x 8'
Knee #7, Motor Board #8	DF Ext. AC	1	3/4" x 18" x 4'

### STITCH AND GLUE MATERIALS

Note that two listings are given, "A" when the hull is to be fiberglass covered and "B" when it is not. The fiberglass materials required to cover the entire hull bottom, sides, and transom are listed separately under "FIBERGLASSING".

**EPOXY RESIN:** Marine grade epoxy is used for gluing (with thickeners added), encapsulation, and applying fiberglass tape; **EPOXY-SHIELD** is advised.

- **With Kit A:** when hull is fiberglass covered = 2 qts. with slow hardener
- **With Kit B:** when hull is NOT fiberglass covered = 1 gal plus 3 quarts with slow hardener

**ADDITIVES:** For thickening epoxy resin for gluing and making fillets. Required for both Kits A and B.

- 1 lb. microspheres
- 1 lb. silica

**FIBERGLASS TAPE:** Use 6-8 oz. fiberglass cloth cut into 3" and 4" strips diagonally.

- **With Kit A** when hull is fiberglass covered= 1 2/3 yd. 38" cloth
- **With Kit B** when hull is NOT fiberglass covered= 6 1/3 yds. 38" cloth

**FASTENINGS:** Required for both Kit A or B.

**SCREWS:** Wood type, flat head, bronze or galvanized:

- 7/8" #8 = 72 required

- 1 1/2" #8 = 36 required
- 2" #10 = 6 required
- 3" #14 = 12 required

**NAILS:** Bronze ring type boat nails.

- 3/4" #14 = 1/2 lb.

**MISCELLANEOUS:** Required for either Kit A or B. **STITCHING WIRE:** Copper wire 12 or 14 gauge

- 25 lineal feet

The GLEN-L Stitch and Glue Kits A and B contain all items listed under the designated headings PLUS rollers, squeegee, and brushes for application.

## **FIBERGLASSING**

The following listing includes all materials required to fiberglass the exterior of the hull, bottom, sides, and transom. Use with Stitch and Glue Kit A.

**FIBERGLASS CLOTH:** See LAM SCHED for specifications.  
60" wide 6-8 oz. = 6 yds.

**EPOXY RESIN:** With slow hardener = 2 gals.

The GLEN-L Fiberglass Covering Kit contains all items listed under the designated heading PLUS rollers, squeegee, and brushes for application.