

# Dyno Mite Bill of Materials

**LUMBER:** Do NOT purchase any lumber until you read this section. Do NOT purchase any NET SIZED material. All lumber thickness specified should be purchased as standard lumberyard stock finished as full as possible. As an example, 1" stock is NOT to be a net thickness of 1". Stock 1" thick refers to lumber purchased as "four quarters" material that will finish from 3/4" to 7/8" in net or actual thickness. Widths, however, are noted as "net" unless specified otherwise. (Exception: All 2" thick stock is lumberyard size in both thickness and width.) Purchasing random-random material to re-saw to the required size will result in considerable savings. Some suitable boatbuilding woods include mahogany (dark red Philippine, Honduras, or African) clear vertical grain Douglas-fir, Sitka spruce, white oak or longleaf yellow pine. Similar woods, available in the building locale and common to boatbuilding, may be substituted at the discretion of the builder. The prototype was built primarily from Sitka spruce with dark red Philippine mahogany trim. Check all listings to the work prior to purchasing materials.

**MATERIAL ABBREVIATIONS:** DF= Douglas-fir; PW = plywood; Ext = exterior; Mar = marine; Mahog = mahogany; SP = spruce (Sitka)

<sup>1</sup> Not required with Frame Kit.

ITEM	MATERIAL	NO. PCS.	SIZE
<sup>1</sup> Transom side deck beam	SP or Mahog	1	1" x 3" x 5' 6" makes two
<sup>1</sup> Transom cleat	SP or Mahog	1	1" x 2 1/2" x 3'
<sup>1</sup> #6 Breasthook	SP or Mahog	1	1"x 6" x 12"
Sheer	SP or Mahog	2	5/8" x 1" x 12'
Motorwell 2" x 2"	DF	1	2" x 2" x 1' 6"

Athwartship 2" x 4"	DF	1	2" x 4" x 3'
Longi cleats	SP or Mahog	2	1" x 1 1/2" x 9'
<sup>1</sup> Deck beams #7 #8 #9 #10 & 11	All SP or Mahog	1 1 1 2	1" x 3 1/2" x 3' 4" 1" x 4" x 4' 4" 1" x 4 1/2" x 5' 2" 1" x 3" x 5' 6"
Carling	SP or Mahog	1	1" x 3/4"x13'
Clamp	SP or Mahog	1	1" x 5" x 7' makes two
Coaming	Mahog	2	1" x 5" x 7' 6"
Strongback	SP or Mahog	1	1" x 2" x 7'
Deck battens	SP or Mahog	2	1" x 1 1/2" x 5' makes two
Cowl & aft deck battens	SP or Mahog	2	1" 1 1/2" x 8'
Side deck battens	SP or Mahog	2	1" x 1" x 8' 6"
Motorwell bottom cleats	SP or Mahog	1	1" x 1 1/2" x 8'
Misc. blocking and cleats not listed.			

**PLYWOOD:** All plywood must be intended for marine or exterior use. Interior grades are NOT acceptable. Marine plywood has higher grade inner ply cores, while the exterior grade cores may be of inferior material and have inner voids not apparent to the eye. In most cases, the glues used in both marine and exterior panels are the same, however, the decision to use exterior in lieu of marine panels for planking must lie with the builder. Most exterior plywood is not 1/4" thick; it is classed as "scant" and is a fraction less than full thickness. Take care if mixing marine and exterior panels that must butt join. Marine plywood is recommended, especially for the bottom. Douglas-fir plywood is acceptable in all cases although other species of suitable grade may be used alternately. The grade of the exterior veneer of plywood panels is identified by the letters A, B, and C. For planking the A-A (best) grade is desirable. The best face of all panels should be the one exposed. Check the PLYWOOD LAYOUT in these instructions and the text for method of utilizing the listed plywood to obtain the various parts.

<sup>1</sup> Not required with Frame Kit, See "Plywood Layout" Instr.

PANEL NO.	MATERIAL	NO. PCS.	SIZE
"I" & "II"	DF Ext or Mar AA or AB	2	1/4"x4' x8'
"III"	DF Ext or Mar AA or AB	1	1/4"x4' x8'
"IV"	DF Ext AB	1	1/4"x4' x8'
"V"	DF Ext AB	1	1/4"x4' x8'
"VI"	DF Ext AB	1	3/4"x4' x8'
"VII"	Mahog, Ext or Mar AA or AB	1	1/4"x4' x8'
Seats and sole not listed.			

**FASTENINGS:** All permanent fastenings should be of a non-corrosive type. Screws as noted are of the flat head wood type, while nails are of the annular ring shank type commonly used in boatbuilding. Screws should be hot-dipped galvanized or preferably silicon bronze while nails can be bronze or Monel. Electroplated steel and brass fasteners are NOT advised. Carriage bolts are to be complete with nut and washer with galvanized being satisfactory.

**Screws:** Flathead wood type, bronze or hot dipped galvanized

- \*3/4" #8 - 8 doz.
- \*1" #8 - 6 doz.
- \*1-1/4" #8 - 5 doz.
- \*1 1/2" #8 - 1 gross
- \*3" #14 - 14 only

**Nails:** Ring Type Boat Nails in Bronze or Monel (Weights are approximate).

- \*3/4" #14 - 1/2 lb.
- \*1" #12 - 1 1/4 lbs.

**Carriage Bolts:** Galvanized or bronze with nuts and washers

- \*5/16" x 6" - 4 required

**STITCHING WIRE:** Copper wire 12 or 14 ga. - \*50 lineal feet

**FIBERGLASS TAPE:** Although fiberglass tape can be used, it is preferable to use fiberglass cloth cut at a 45 degree angle so the strands of fiberglass cross the seam being reinforced rather than parallel them.

- \*38" cloth 7 yds.
- \*Approx. 3 yds. cut in 3" widths and 4 yds. in 5" widths

**\*GLUE:** All permanent joints should be glued with epoxy adhesives intended for wooden boat use. This may be epoxy resin with additives or epoxy glue.

**EPOXY RESIN:** For gluing, laminate application, epoxy encapsulation & resin putty.

- \*INTERIOR - Approx. 3 gals.
- \*\*EXTERIOR - (Includes fibreglassing) 3 gallons

**\*MICROSPHERES (or equal):** - 3 lbs.

**\*SILICA:** - 1 lbs.

*\*These items are contained in the GLEN-L Stitch-N-Glue Kit PLUS a selection of application tools, squeegees, brushes, and rollers.*

**FIBERGLASS CLOTH:** For exterior sheathing, 7-8 oz. treated boat type.

- \*\*4-1/3 yds. - 50" width (covers bottom in full width and laps over transom)
- \*\*6-1/3 yds. - 38" width (split to 19" to cover both sides lapping transom and side decks)
- \*\*2-2/3 yds. - 50" width (covers fore decking)

*\*\*These items are contained in the GLEN-L Fiberglass Kit Kit PLUS a selection of application tools, squeegees, brushes, and rollers.*