

# Amp Eater Bill of Materials

DO NOT PURCHASE ANY MATERIAL UNTIL YOU READ THIS SECTION.

**LUMBER:** White oak, mahogany (Philippine or Honduras), spruce, or similar types of wood common to the area for boatbuilding can be used. Seat cleats and similar members that impart no great structural strength may be almost any good grade of lumber. The wood should be knot free (small solid ones are permissible), properly dried, and free of splits. Lumber designated as 1" is "four quarters" lumberyard stock, usually finished to 3/4" net thickness. All widths are NET and the noted lengths allow for cutting to fit. However, lumber noted as 2" stock is lumberyard size in both length and width (e.g. A 2" x 6" will usually net 1 1/2" x 5 1/2"). *NOTE: The following listing is for the basic hull only. The types of lumber listed are as used on the prototype; spruce for light weight and mahogany for appearance. As stated in the prologue, other species can be substituted. Although the sizes are noted individually, it is best to group the lumber, purchase "random/random" (varying widths and lengths) lumberyard stock, and rip and trim to the required sizes. CHECK ALL SIZES TO THE WORK PRIOR TO CUTTING.*

Abbreviations used are: Mahog = mahogany; Sp = spruce; DF = Douglas-fir.

ITEM	MATERIAL	NO. PCS	SIZE
Cleats on #4	Sp	1	1" x 1"x 18"
Beam #5	Sp	1	1" x 3" x 3'
Cleats on #7	Sp	1	1" x 1-1/2" x 2'
Cleats on #7	Sp	1	1" x 1" x 4'
Skeg #9-#10-#14 & #16 & Motor stringer	DF	2	2" x 6" x 8'
Cleats on #10	Sp	1	1" x 1-1/2" x 4'
Cleats on #13	Sp	1	1" x 1" x 4'
Cleats on #13	Sp	1	1" x 1-1/2" x 5'
Backing for #13 & #17	Sp	1	1" x 3" x 1'
Cleats on #17	Sp	1	1" x 1" x 4'
Breasthook	Mahog.	1	1" x 8" x 9"
Battery Support Cleats	Sp	as req.	1" as required
Keel	Sp	1	1" x 2" x 6'
Sheer	Mahog	2	1" x 1-1/2" x 15'
Inner Sheer (opt. see INSTR.)	Mahog	2	1" x 1" x 14'

Floor Battens	Sp	2	1" x 1-1/2" x 4'
Strongbacks	Sp	2	1" x 1-1/2" x 3'6"
Deck Battens Aft	Sp	1	1" x 1-1/2" x 7'
Deck Battens Fwd	Sp	1	1" x 1-1/2" x 5'
Carling	Mahog	2	1" x 6" x 7'
All Sidedeck Beams	Mahog	1	1" x 6" x 7'
Transom Deck Beam	Sp	1	1" x 5" x 4'
Deck Beam @ Sta #16	Mahog or Sp	1	1" x 6" x 4'
Deck Beam @ Sta #15	Mahog or Sp	1	1" x 6" x 5'
Deck Beam @ Sta #5	Mahog or Sp	1	1" x 6" x 4'6"
Deck Beam @ Sta #3	Mahog or Sp	1	1" x 5" x 3'
Skeg Shoe	Mahog or oak	1	1"x varies x 8'6"

**PLYWOOD:** All plywood must be intended for marine or exterior use. Interior grades are NOT acceptable. Marine plywood has higher grade inner plies, while the exterior grade cores may be of inferior material with inner voids not apparent to the eye. In most cases, the glues used in both marine and exterior panels are the same. A solid core marine grade is preferable, although an exterior grade can be used with the understanding that unseen interior voids can cause problems. Douglas fir plywood is acceptable, but high quality Okoume, mahogany, or other decorative veneer (usually imports) are preferable. The grade of the exterior veneer of plywood panels is identified by the letters A, B, and C with A being best, etc. The best face of all panels should be the one exposed. Any patches on lower grade veneers should be on the interior, especially on the forward bottom. Check the PLYWOOD LAYOUT on the Full Size Pattern sheet 1 of 2 for method of utilizing the listed plywood to obtain the various parts.

Abbreviations used are: DF = Douglas-fir; PW = plywood; Ext. = exterior; Mar. = marine.

ITEM	DESCRIPTION	NUMBER	SIZE
++PANEL I	Ext. DF AB or Mar. AA	1	1/4" x 4' x 8'
PANEL II	Ext. DF AB or Mar. AA	1	1/4" x 4' x 8'
PANEL III	Ext. DF AB or Mar. AA	1	1/4" x 4' x 8'
PANEL IV	Ext. DF AB or Mar. AA	1	1/4" x 4' x 8'
Seats and Sole	Ext. DF AB or AC	1	3/8" x 4' x 8'

++ A marine grade plywood is advised for the forward bottom panels, #2 Fwd.

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

\***MICROSPHERES:** (or equal) - 1 lb.

\***SILICA:** - 1 lb.

**FIBERGLASS:** All fiberglass cloth is to be marine grade, Volan treated "E", 6-8 oz.; bi-axial fiberglass is 17 oz. per square yard.

\***FIBERGLASS TAPE:** For interior junctions per the LAM SCHED.

Cut from 38" wide cloth bias cut at 45 degree angle into 4" strips - 4 yds. reqd.

**\*BI-AXIAL FIBERGLASS TAPE:** For Interior and Exterior junctions per the LAM SCHED.

Bi-axial cloth 50" wide -4 yds. reqd.

Cut two 10" wide 12' long strips for covering the keel area; cut balance into 3" wide strips.

**\*\*FIBERGLASS CLOTH:** For covering exterior - 10 1/3 yds. (31') 50" cloth.

Use 14' 4" of 50" to cover each half of the boat from sheer over chine and lapping the fairbody seam on the opposite side; lap over stem and transom several inches. Use balance of cloth to cover transom lapping over sides and bottom several inches.

*NOTE: Fiberglass covering the exterior is optional but desirable. If the hull is NOT fiberglass covered an additional 2 yds of 38" cloth will be required. See LAM SCHED.*

**"POXY-SHIELD" SLOW EPOXY RESIN:** \*For encapsulating, resin putty fillets, gluing, and applying interior and exterior tape - 2 gallons.

**\*\*For EXTERIOR fiberglass covering - 2 - gallons.**

*NOTE: Resin quantities assume that waste will be minimal.*

**\*FASTENERS:**

- SCREWS: refers to flat head wood type bronze.
- 3/4" #8 screws - 6 dozen
- 1" #8 screws - 5 dozen
- 1 1/2" #8 screws - 1 gross
- 3" #14 screws - 3 required
  
- NAILS: refers to ring type bronze boat nails
- 3/4" #14 nails - 1/2 lb.
- 1" #12 nails - 1/2 lb
  
- CARR. BOLTS: galvanized with nut and washer
- 3/8" x 6" - one required

\* The GLEN-L STITCH and GLUE KIT A includes all of these items PLUS brushes, squeegees, and rollers for application. STITCH and GLUE KIT B includes everything in KIT A plus 2 yds. of 38" fiberglass cloth. If you intend to cover the outside with fiberglass, use STITCH and GLUE KIT A.

\*\* The GLEN-L FIBERGLASS COVERING KIT includes all of these items PLUS brushes, squeegees, and rollers for application.