

# Hunky Dory

## Aluminum Bill of Materials

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The following is a listing of the primary aluminum members required to build the Inboard Version, including their sizes, lengths, and/or square footage. The listing will require some modifications if building the Outboard or I/O Versions, but will be similar. This listing is to serve as a general guide only for cost estimating purposes and is not meant to be all inclusive. Do not use this list to purchase materials without first checking to the plans and instruction guide for options. In all cases the builder should check local sources for availability of stock sizes as well as possible substitutes. How the members are obtained from the stock and the manner in which the material is utilized can vary to suit stock sizes of materials available where the boat will be built. This is why many members are listed by square footage. In other cases, members may be made from flat bar, plate, or sheet material; it makes little difference in aluminum construction. Also, square footage or linear footage may be given for contoured members which can be cut to shape from plate or sheet stock, or could optionally be formed or bent from flat bar stock. Sizes and areas of materials include a factor for overage so that minor members not specifically noted can be obtained from scrap material.

<b>MEMBER</b>	<b>SIZE/TYPE</b>	<b>AMOUNT REQUIRED</b>
Hull, deck, motor well plating	3/16" sheet	300 sq. ft.
Stem	1/4" plate	4 sq. ft.
Frames (unequal angles)	3" x 2" x 3/16"	60 lin. ft.
Carling (flat bar)	1/4" x 2"	50 lin. ft.
Chine bar (round bar)	1/2" dia	44 lin. ft.
Side/transom flat bar stiffeners	1/4" x 1-1/4"	125 lin. ft.
Bottom stiffeners (tee's)	1-1/2" x 1-1/4" x 1/8"	100 lin. ft.
Sheer rail (Sch. 80 pipe)	1-1/4"	60 lin. ft.

# Hunky Dory

## 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, unless specified as NET. 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 oak (white oak), Douglas-fir, and mahogany (dark red Philippine or Honduras) 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.

**CHECK ALL SIZES TO THE WORK PRIOR TO CUTTING.** Abbreviations used are: Mahog = mahogany; DF = Douglas-fir; PW=plywood; Ext=exterior; MAR=marine.

ITEM	MATERIAL	NO. PCS.	SIZE
<b>LUMBER:</b>			
Frame members	Mahog, Oak or DF	11 2 1	1-1/4" x 3-1/2" x 12'* 1-1/4" x 3-1/2" x 10'* 1-1/4" x 3-1/2" x 14'*

Chine logs	Mahog or Oak	2	1" x 2" x 21'
Outboard sheer clamps	Mahog or Oak	2	1" x 2" x 24'
Inner bottom battens	Mahog or Oak	2 2	1" x 3" x 17' 1" x 3" x 19'
Outer bottom battens	Mahog, Oak or Teak	2 2	1" x 3" x 17' 1" x 3" x 19'
Spray rail	Mahog, Oak or Teak	2	1" x 2" x 21'
Rub rail	Mahog, Oak or Teak	2	1" x 2" x 25'
Guard	Mahog, Oak or Teak	4	1" x 1-1/2" x 21'
Stem cap	Mahog, Oak or Teak	1	1" x 1-1/4" x 4'
Inboard sheer clamps	Mahog, Oak or Teak	2	1" x 2" x 23'
Transom cap	Mahog, Oak or Teak	1	1" x 2-1/2" x 8'
Sheer cap	Mahog, Oak or Teak	1" stock sawn to shape as required	
Transom upright blocking	Mahog, Oak or DF	2	2" x 4" x 2'
Frame blocking (motor well)	Mahog or Oak	2	1" x 2" x 2'
Shaped blocking (motor well)	Mahog or Oak	2	1" x 7" x 2'
Filler blocking (motor well)	Mahog or Oak	2	1" x 3" x 1'
Motor well top cleats	Mahog or Oak	2	1" x 2" x 3'-6"
Beveled blocking (motor well)	Mahog or Oak	1	1-1/4" x 3" x 2'
Clamping block (motorboard)	Mahog, Oak or DF	1	1-1/4" min x 6" x 2'

\* If Douglas-fir is used, stock may be standard 2" x 4" material

**PLYWOOD:**

Transom, stem & breasthook	DF AB Ext or MAR	1	3/4" x 4' x 8'
Frame gussets	DF AB Ext or MAR	1	3/8" x 4' x 8'
Side planking, gussets & butt blocks	DF AB Ext or MAR	6	3/8" x 4' x 8'
Bottom planking & butt blocks	DF AB Ext or MAR	3	1/2" x 4' x 8'
Motorwell & motorboard members	DF AB Ext or MAR	1	1/2" x 4' x 8'

**FASTENINGS:**

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

- 3/4" #8 - 3 gross
- 1" #8 - 5 gross
- 1-1/4" #8 - 5 gross
- 1-1/2" #8 - 6 gross
- 2" #10 - 2 gross

**Nails:** Ring type boat nails, bronze or Monel

- 1-1/4" - 3 pounds

**Carriage Bolts:** Bronze or hot dipped galvanized complete with nuts and washers. Check lengths to work. See fastening schedule and instructions for options.

**Glue:** Epoxy - 2 gallon