

Delta King 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.

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 |
|-----------------------------|--------------------------------------|--------------------------------|---------------------------------|
| LUMBER: | | | |
| Transom & bulkhead framing | Oak, Mahog or DF Oak, Mahog or DF | 88 lineal ft. 44 lineal ft. | 2" x 2" 1 1/4" x 4" |
| Keel | Oak, Mahog or DF | 1 | 2" x 4" x 27' (2" x 6" opt.) |
| Longitudinal bottom battens | Oak, Mahog or DF Oak, Mahog or DF | 4 | 2" x 4" x 25' |

| | | | |
|------------------------------|--------------------------------------|----|---------------|
| Forward longitudinal battens | Oak, Mahog or DF Oak, Mahog or DF | 4 | 1" x 4" x 10' |
| Bowpiece | Oak, Mahog or DF | 2 | 2" x 8" x 6' |
| Sheer clamps | Oak, Mahog or DF | 2 | 2" x 4" x 20' |
| | Oak, Mahog or DF | 2 | 2" x 4" x 12' |
| Chine logs | Oak, Mahog or DF | 2 | 2" x 4" x 20' |
| | Oak, Mahog or DF | 4 | 2" x 6" x 7' |
| Skeg | Oak, Mahog or DF | 1 | 3" x 6" x 24' |
| Longitudinal frame cleats | Oak, Mahog or DF | 5 | 2" x 2" x 9' |
| | Oak, Mahog or DF | 10 | 2" x 2" x 3' |
| Forward deck beams | Oak, Mahog or DF | 1 | 2" x 4" x 12' |
| Decking strongback forward | Oak, Mahog or DF | 1 | 2" x 2" x 4' |
| Cabin clamp | Oak, Mahog or DF | 2 | 2" x 3" x 13' |
| | Oak, Mahog or DF | 2 | 2" x 3" x 4' |

PLYWOOD:

| | | | |
|---------------------|--|---|-----------------------|
| Transom | DF Ext AB DF Ext AB | 2 | 3/4" x 4' x 12'*** or |
| | | 2 | 1" x 4' x 12'*** opt |
| Bulkheads | DF Ext AB DF Ext AB | 4 | 3/8" x 3' x 12'* |
| | | | |
| Stems & breastplate | DF Ext AB | 2 | 3/4" x 4' x 8' |
| Side Planking | DF Ext AB or | 8 | 1/2" x 4' x 8' |
| Bottom Planking | DF Ext AB or MAR (MAR recommended for forward laminations) | 7 | 3/4" x 4' x 8' |
| | | 2 | 3/8" x 4' x 8' |
| | | 2 | 3/8" x 4' x 10'*** |
| | | 4 | 3/8" x 4' x 12'*** |
| Decking | DF Ext AB DF Ext AB | 5 | 3/4" x 4' x 8' |
| | | 2 | 3/4" x 4' x 12'*** |

* Scarf together or laminate thinner material

** Can substitute 4' x 8' in all cases.

FASTENINGS:

Screws: Flathead wood type, bronze or hot dipped galvanized

- 1" #8 - 7 gross
- 1-1/4" #8 - 3 gross
- 1-1/2" #8 - 24 gross
- 2" #10 - 9 gross

- 3" #14 - 5 doz

Nails: Ring type boat nails, bronze, stainless steel or Monel; annular type, common type suitable for cabin structure as required.

- 1-1/4" - 5 pounds

Glue: Epoxy - 4 gallons