

# Huck Finn 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; SP=Spruce; DF = Douglas-fir; PW=plywood; Ext=exterior; MAR=marine; LF=linear feet.

ITEM	MATERIAL	SIZE	NO. PCS: 12'	16'	20'	24'	28'
<b>LUMBER:</b>							
Framing members bottom & sides	Mahog or DF	1"x2"	40 LF	40 LF	50 LF	60 LF	70 LF
Framing members top cleats	DF	2"x2"	6 LF	9 LF	12 LF	15 LF	18 LF

Framing members transom top cleat	DF	2"x3"	6 LF	6 LF	6 LF	6 LF	6 LF
Stem	DF	2" x 6" x 3', 2 required for all models					
Bow spreader	Mahog or DF	1" x 2" x 14", 2 required for all models					
Upright	Mahog or DF	1" x 1-1/2" x 14", 2 required for all models					
Keel	Mahog or DF	1"x 2"	2@12'	2@14'-6"	2@18'-6"	2@22'-6"	2@26'-6"
Chine logs	Mahog or DF	1"x1-1/2"	4@12'	4@16'	4@20'	4@24'	4@28'
Sheer clamps	Mahog or DF	5/8" net x 1-1/4"	8@12'	8@16'	8@20'	8@24'	8@28'
Deck unit beams	DF DF	2"x4" 1-1/4" x width to match above beams	4@8' 3@8'	4@8' 3@8'	5@8' 4@8'	6@8' 5@8'	7@8' 6@8'
Deck unit side frame	Mahog or DF	1" x width to match above beams	2@12'	2@12'	2@16'	2@20'	2@24'
Deflector cleats	Mahog or DF Mahog or DF Mahog or DF Mahog or DF	1" x 2" 1" x 2" 1' x 2" 2' x 2"	2@4' Typical for all models except swim platform 2@4'-3" Typical for all models except swim platform 1@2' Typical for all models except swim platform 1@4' Typical for all models except swim platform				
Deflector transom framing members	Mahog or DF	1" x 2"	4 LF Typical for all models except swim platform				
Deck unit blocking	DF	2"x 2"	5 LF	5 LF	6 LF	8 LF	9 LF
Skeg	Mahog or DF Mahog or DF	1-1/4"x 3" 2"x 3"	-- --	10'-6" --	14'-6" --	-- 18'-6"	-- 22'-6"

**PLYWOOD:**

12'	DF Ext AB or MAR DF Ext AB or MAR DF Ext AB or MAR	3 2 3	1/4" x 4' x 12'* 1/4" x 4' x 8' 5/8" x 4' x 8'
16'	DF Ext AB or MAR DF Ext AB or MAR DF Ext AB or MAR DF Ext AB or MAR	3 2 4 3	1/4" x 4' x 10'* 3/8" x 4' x 8' 1/4" x 4' x 8' 5/8" x 4' x 8'

20'	DF Ext AB or MAR	2	1/4" x 4' x 10'*
	DF Ext AB or MAR	6	3/8" x 4' x 10'*
	DF Ext AB or MAR	1	1/4" x 4' x 8'
	DF Ext AB or MAR	4	5/8" x 4' x 8'
24'	DF Ext AB or MAR	1	1/4" x 4' x 10'*
	DF Ext AB or MAR	3	3/8" x 4' x 10'*
	DF Ext AB or MAR	3	1/4" x 4' x 8'
	DF Ext AB or MAR	6	3/8" x 4' x 8'
	DF Ext AB or MAR	5	5/8" x 4' x 8'
28'	DF Ext AB or MAR	3	1/4" x 4' x 10'*
	DF Ext AB or MAR	4	3/8" x 4' x 10'*
	DF Ext AB or MAR	2	1/4" x 4' x 8'
	DF Ext AB or MAR	2	3/8" x 4' x 8'
	DF Ext AB or MAR	6	5/8" x 4' x 8'

\*4' x 8' sheets can be substituted for longer sheets in all cases. Adjust quantities accordingly.

**FASTENINGS:**

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

Size	12'	16'	20'	24'	26'
3/4" #8	7 doz	7 doz	2 gr	4 gr	4 gr
1-1/2" #8	6 doz	8 doz	1 gr	1 gr	1 gr
2" #10	5 doz	6 doz	8 doz	10 doz	1 gr

**Nails:** Annular ring boat nails, bronze or monel.

3/4"	1/2 lb	1/2 lb	1/4 lb	1/4 lb	1/4 lb
1"	4-1/2 lbs	5-1/2 lbs	7 lbs	8 lbs	9-1/2 lbs
1-1/4"	3-1/2 lbs	4 lbs	5 lbs	5-1/2 lbs	7 lbs

**Carriage Bolts:** Bronze or hot dipped galvanized complete with nuts and washers. Check all lengths to work

2" x 6"	16	16	20	24	28
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**Glue:** Epoxy 1 to 4 gallons