

Play Pen 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.

ITEM	MATERIAL	NO. PCS.	SIZE
LUMBER:			

Frames & Transom Frame - #0, 2, 3 & 4	Oak, Mahog or SP	4	1" x 3" x 9' (1)
Frame - #1	Oak, Mahog or SP	1 1	1" x 3" x 4' (1) 1" x 6" x 5' (1)
Buttock Stem	Oak, Mahog or SP	2	1" x 6" x 5'
Sheer harpin Aft Portion	Oak, Mahog or SP	2	1" x 3-1/2" x 8'
Sheer harpin Forward Portion	Oak, Mahog or SP	1	1" x 11" x 8' (2)
Sheer harpin Bow Piece	Oak, Mahog or SP	1	1" x 9" x 5'
Keel	DF	1	2" x 4" x 12' (3)
Chine - Aft Portion & Butt Block	Oak, Mahog or SP	2	1" x 2-1/4" x 10'
Chine - Forward Sawn Portion	Oak, Mahog or SP	1	1" x 10" x 8' (2)
Battens - Bottom	Oak, Mahog or SP	6	1" x 2-1/2" x 11'
Floor Batten	Oak, Mahog or SP	1	1" x 2" x 10'
Skeg	Oak, Mahog or SP	1	1" x 2-1/2" x 9'

Forward Deck Beam	Oak, Mahog or SP	1	1" x 3" x 6'
Aft Deck Beam	Oak, Mahog or SP	1	1" x 6" x 7'
Miscellaneous Cleats Not listed--Any sound scrap wood may be used.			
PLYWOOD:			
Seats - Floor boards & Motor Well	DF PW Ext AB or AC	3	3/8" x 3' x 8'
Side Planking	AB Ext. or MAR	1	1/4" x 4' x 16' (4)
Bottom Planking	AB Ext. or MAR	2	3/8" x 4' x 16' (4)
Transom, Stem, Knee	DF PW Ext AB	1	3/4" x 4' x 8'
Laminations, Gussets, Etc.	DF PW Ext AB	2	1/4" x 4' x 8'
<p>(1) One piece used for each of designated frames (2) Makes two pieces by nesting one inside arc of the other (3) Use lumber yard stock actual size approximately 1-1/2" x 3-1/2" (4) See Text - May be butt joined from shorter lengths</p>			
FASTENINGS:			
Screws: Flathead wood type, bronze or hot dipped galvanized			
<ul style="list-style-type: none"> • 3/4" #8 - 2 gross • 1" #8 - 3 gross • 1-1/4" #8 - 2 gross • 1-1/2" #8 - 1 gross 			

- 2" #10 - 24 each
- 3" #14 - 6 only

Nails: Ring type boat nails, bronze or Monel

- 1" - 2 pounds

Carriage Bolts: With nut and washer

- 5/16" x 6" - 6 required

Glue: Epoxy - 1 gallon